



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

## Cover Page

**Order ID :** P4959

**Project ID :** CTO WE13

**Client :** Tetra Tech NUS, Inc.

### Lab Sample Number

P4959-01  
P4959-02  
P4959-03

### Client Sample Number

RW5-SP100-20241121  
RW5-SP201-20241121  
RW5-SP303-20241121

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: 12/3/2024

NYDOH CERTIFICATION NO - 11376

NJDEP CERTIFICATION NO - 20012

## **CASE NARRATIVE**

**Tetra Tech NUS, Inc.**

**Project Name: CTO WE13**

**Project Manager : Ernie Wu**

**Chemtech Project # P4959**

**Test Name: SVOC-SIMGroup1**

### **A. Number of Samples and Date of Receipt:**

3 Water samples were received on 11/22/2024.

### **B. Parameters**

According to the Chain of Custody document, the following analyses were requested: SVOC-SIMGroup1. This data package contains results for SVOC-SIMGroup1.

### **C. Analytical Techniques:**

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

### **D. QA/ QC Samples:**

The Holding Times were met for all analysis.

The Surrogate recoveries met the acceptable criteria except for  
RW5-SP100-20241121 [2-Fluorobiphenyl - 110%, Terphenyl-d14 - 165%],  
RW5-SP201-20241121 [2-Fluorobiphenyl - 22%, Terphenyl-d14 - 229%],  
RW5-SP303-20241121 [Terphenyl-d14 - 182%],  
PB165198BS [2-Fluorobiphenyl - 119% and Nitrobenzene-d5 - 117%], failing surrogates were not associated with client parameter list, therefore no corrective action taken

The Internal Standards Areas met the acceptable requirements.

The Retention Times were acceptable for all samples.

The RPD met criteria .

The Blank Spike met requirements for all samples .

The Blank Spike Duplicate met requirements for all samples .

The Blank analysis did not indicate the presence of lab contamination.

The % RSD is greater than 20% in the Initial Calibration (8270Sim-BN112524.M) for 2-Fluorobiphenyl and Terphenyl-d14 but not associated with client parameter list therefore this calibration is used for analysis.

The Continuous Calibration File ID BN035293.D met the requirements except for 1,4-Dioxane is failing high but no positive hit in associate sample therefore no corrective



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action taken while 2-Fluorobiphenyl, 2-Fluorophenol and Nitrobenzene-d5 which is not our target compound, therefore no corrective action taken.

The Tuning criteria met requirements.

Samples RW5-SP100-20241121 was diluted at 5X. This sample initially analyzed straight in sequence BN112524 but CCAL is failing therefore based on that result lab analyzed this sample directly with 5X while Straight analysis given as screening data in Miscellaneous section.

**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.

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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\_\_\_\_\_

## 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 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: P4959

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.<br>(NOTE THAT THERE ARE DIFFERENT CRITERIA FOR NY ASP CLP,<br>CLP AND NJ)                                                                                        |    |    | ✓   |
| 3. | GC/MS Tuning Frequency - Performed every 24 hours for 600 series and 12 hours for<br>8000 Series.                                                                                                                  |    |    | ✓   |
| 4. | GC/MS Calibration - Initial Calibration performed within 30 days before sample<br>analysis and continuing calibration performed within 24 hours of sample analysis for<br>600 series and 12 hours for 8000 series. |    |    | ✓   |
| 5. | GC/MS Calibration Requirements.                                                                                                                                                                                    |    |    | ✓   |

The % RSD is greater than 20% in the Initial Calibration (8270Sim-BN112524.M) for 2-Fluorobiphenyl and Terphenyl-d14 but not associated with client parameter list therefore this calibration is used for analysis.

The Continuous Calibration File ID BN035293.D met the requirements except for 1,4-Dioxane is failing high but no positive hit in associate sample therefore no corrective action taken while 2-Fluorobiphenyl, 2-Fluorophenol and Nitrobenzene-d5 which is not our target compound, therefore no corrective action taken.

|    |                                                                                |  |   |
|----|--------------------------------------------------------------------------------|--|---|
| 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.

The Surrogate recoveries met the acceptable criteria except for  
RW5-SP100-20241121 [2-Fluorobiphenyl - 110%, Terphenyl-d14 - 165%],  
RW5-SP201-20241121 [2-Fluorobiphenyl - 22%, Terphenyl-d14 - 229%],  
RW5-SP303-20241121 [Terphenyl-d14 - 182%],  
PB165198BS [2-Fluorobiphenyl - 119% and Nitrobenzene-d5 - 117%], failing  
surrogates were not associated with client parameter list, therefore no corrective action  
taken

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

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

The Blank Spike met requirements for all samples .  
The Blank Spike Duplicate met requirements for all samples .

**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**

**(CONTINUED)**

|     |                                                           | NA | NO | YES |
|-----|-----------------------------------------------------------|----|----|-----|
| 9.  | Internal Standard Area/Retention Time Shift Meet Criteria |    |    | ✓   |
|     | Comments:                                                 |    |    |     |
| 10. | Extraction Holding Time Met                               |    |    | ✓   |
|     | If not met, list number of days exceeded for each sample: |    |    |     |
| 11. | Analysis Holding Time Met                                 |    |    | ✓   |
|     | If not met, list number of days exceeded for each sample: |    |    |     |

ADDITIONAL COMMENTS:

Samples RW5-SP100-20241121 was diluted at 5X. This sample initially analyzed straight in sequence BN112524 but CCAL is failing therefore based on that result lab analyzed this sample directly with 5X while Straight analysis given as screening data in Miscellaneous section.

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

## APPENDIX A

### QA REVIEW GENERAL DOCUMENTATION

Project #: P4959

Completed

For thorough review, the report must have the following:

#### GENERAL:

Are all original paperwork present (chain of custody, record of communication,airbill, sample management lab chronicle, login page)

✓

Check chain-of-custody for proper relinquish/return of samples

✓

Is the chain of custody signed and complete

✓

Check internal chain-of-custody for proper relinquish/return of samples /sample extracts

✓

Collect information for each project id from server. Were all requirements followed

✓

#### COVER PAGE:

Do numbers of samples correspond to the number of samples in the Chain of Custody on login page

✓

Do lab numbers and client Ids on cover page agree with the Chain of Custody

✓

#### CHAIN OF CUSTODY:

Do requested analyses on Chain of Custody agree with form I results

✓

Do requested analyses on Chain of Custody agree with the log-in page

✓

Were the correct method log-in for analysis according to the Analytical Request and Chain of Castody

✓

Were the samples received within hold time

✓

Were any problems found with the samples at arrival recorded in the Sample Management Laboratory Chronicle

✓

#### ANALYTICAL:

Was method requirement followed?

✓

Was client requirement followed?

✓

Does the case narrative summarize all QC failure?

✓

All runlogs and manual integration are reviewed for requirements

✓

All manual calculations and /or hand notations verified

✓

QA Review Signature: SOHIL JODHANI

Date: 12/03/2024

## LAB CHRONICLE

|                 |                      |                   |                        |
|-----------------|----------------------|-------------------|------------------------|
| <b>OrderID:</b> | P4959                | <b>OrderDate:</b> | 11/22/2024 10:42:00 AM |
| <b>Client:</b>  | Tetra Tech NUS, Inc. | <b>Project:</b>   | CTO WE13               |
| <b>Contact:</b> | Ernie Wu             | <b>Location:</b>  | L41                    |

| LabID           | ClientID                             | Matrix       | Test           | Method        | Sample Date     | Prep Date | Anal Date | Received        |
|-----------------|--------------------------------------|--------------|----------------|---------------|-----------------|-----------|-----------|-----------------|
| <b>P4959-01</b> | <b>RW5-SP100-2024112</b><br><b>1</b> | <b>Water</b> |                |               | <b>11/21/24</b> |           |           | <b>11/22/24</b> |
|                 |                                      |              | SVOC-SIMGroup1 | 8270-Modified |                 | 11/22/24  | 11/28/24  |                 |
| <b>P4959-02</b> | <b>RW5-SP201-2024112</b><br><b>1</b> | <b>Water</b> |                |               | <b>11/21/24</b> |           |           | <b>11/22/24</b> |
|                 |                                      |              | SVOC-SIMGroup1 | 8270-Modified |                 | 11/22/24  | 11/26/24  |                 |
| <b>P4959-03</b> | <b>RW5-SP303-2024112</b><br><b>1</b> | <b>Water</b> |                |               | <b>11/21/24</b> |           |           | <b>11/22/24</b> |
|                 |                                      |              | SVOC-SIMGroup1 | 8270-Modified |                 | 11/22/24  | 11/26/24  |                 |



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**Hit Summary Sheet**  
**SW-846**

**SDG No.:** P4959  
**Client:** Tetra Tech NUS, Inc.

| Sample ID                             | Client ID          | Parameter         | Concentration | C            | MDL  | LOD | RDL | Units |
|---------------------------------------|--------------------|-------------------|---------------|--------------|------|-----|-----|-------|
| <b>Client ID : RW5-SP100-20241121</b> |                    |                   |               |              |      |     |     |       |
| P4959-01                              | RW5-SP100-20241121 | WATER 1,4-Dioxane | 10.400        |              | 0.34 | 1   | 1   | ug/L  |
| <b>Total Svoc :</b>                   |                    |                   |               | <b>10.40</b> |      |     |     |       |
| <b>Total Concentration:</b>           |                    |                   |               | <b>10.40</b> |      |     |     |       |



# QC SUMMARY

## Surrogate Summary

SW-846

SDG No.: P4959

Client: Tetra Tech NUS, Inc.

Analytical Method: 8270-Modified

| Lab Sample ID | Client ID          | Parameter               | Spike (PPM) | Result (PPM) | Recovery (%) | Qual | Limits (%) |      |
|---------------|--------------------|-------------------------|-------------|--------------|--------------|------|------------|------|
|               |                    |                         |             |              |              |      | Low        | High |
| P4959-01      | RW5-SP100-20241121 | 2-Methylnaphthalene-d10 | 0.4         | 0.49         | 123          |      | 30         | 150  |
|               |                    | Fluoranthene-d10        | 0.4         | 0.58         | 145          |      | 30         | 150  |
|               |                    | Nitrobenzene-d5         | 0.4         | 0.43         | 106          |      | 55         | 111  |
|               |                    | 2-Fluorobiphenyl        | 0.4         | 0.44         | 110          | *    | 53         | 106  |
|               |                    | Terphenyl-d14           | 0.4         | 0.66         | 165          | *    | 58         | 132  |
| P4959-02      | RW5-SP201-20241121 | 2-Methylnaphthalene-d10 | 0.4         | 0.55         | 136          |      | 30         | 150  |
|               |                    | Fluoranthene-d10        | 0.4         | 0.53         | 132          |      | 30         | 150  |
|               |                    | Nitrobenzene-d5         | 0.4         | 0.25         | 61           |      | 55         | 111  |
|               |                    | 2-Fluorobiphenyl        | 0.4         | 0.086        | 22           | *    | 53         | 106  |
|               |                    | Terphenyl-d14           | 0.4         | 0.92         | 229          | *    | 58         | 132  |
| P4959-03      | RW5-SP303-20241121 | 2-Methylnaphthalene-d10 | 0.4         | 0.45         | 113          |      | 30         | 150  |
|               |                    | Fluoranthene-d10        | 0.4         | 0.41         | 102          |      | 30         | 150  |
|               |                    | Nitrobenzene-d5         | 0.4         | 0.23         | 57           |      | 55         | 111  |
|               |                    | 2-Fluorobiphenyl        | 0.4         | 0.24         | 60           |      | 53         | 106  |
|               |                    | Terphenyl-d14           | 0.4         | 0.73         | 182          | *    | 58         | 132  |
| PB165198BL    | PB165198BL         | 2-Methylnaphthalene-d10 | 0.4         | 0.42         | 104          |      | 30         | 150  |
|               |                    | Fluoranthene-d10        | 0.4         | 0.41         | 101          |      | 30         | 150  |
|               |                    | Nitrobenzene-d5         | 0.4         | 0.37         | 93           |      | 55         | 111  |
|               |                    | 2-Fluorobiphenyl        | 0.4         | 0.39         | 98           |      | 53         | 106  |
|               |                    | Terphenyl-d14           | 0.4         | 0.49         | 122          |      | 58         | 132  |
| PB165198BS    | PB165198BS         | 2-Methylnaphthalene-d10 | 0.4         | 0.58         | 145          |      | 30         | 150  |
|               |                    | Fluoranthene-d10        | 0.4         | 0.46         | 115          |      | 30         | 150  |
|               |                    | Nitrobenzene-d5         | 0.4         | 0.47         | 117          | *    | 55         | 111  |
|               |                    | 2-Fluorobiphenyl        | 0.4         | 0.48         | 119          | *    | 53         | 106  |
|               |                    | Terphenyl-d14           | 0.4         | 0.52         | 130          |      | 58         | 132  |
| PB165198BSD   | PB165198BSD        | 2-Methylnaphthalene-d10 | 0.4         | 0.51         | 127          |      | 30         | 150  |
|               |                    | Fluoranthene-d10        | 0.4         | 0.40         | 99           |      | 30         | 150  |
|               |                    | Nitrobenzene-d5         | 0.4         | 0.41         | 103          |      | 55         | 111  |
|               |                    | 2-Fluorobiphenyl        | 0.4         | 0.42         | 104          |      | 53         | 106  |
|               |                    | Terphenyl-d14           | 0.4         | 0.45         | 113          |      | 58         | 132  |

## Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: P4959

Client: Tetra Tech NUS, Inc.

Analytical Method: 8270-Modified DataFile: BN035370.D

| Lab Sample ID | Parameter   | Spike | Result | Unit | Rec | RPD | Qual | RPD  | Low | Limits | RPD |
|---------------|-------------|-------|--------|------|-----|-----|------|------|-----|--------|-----|
|               |             |       |        |      |     |     |      | Qual |     | High   |     |
| PB165198BS    | 1,4-Dioxane | 0.4   | 0.41   | ug/L | 103 |     |      |      | 70  | 130    |     |



**Laboratory Control Sample/Laboratory Control Sample Duplicate Summary**

SW-846

**SDG No.:** P4959

**Client:** Tetra Tech NUS, Inc.

**Analytical Method:** 8270-Modified **DataFile:** BN035371.D

| Lab Sample ID | Parameter   | Spike | Result | Unit | Rec | RPD | Qual | RPD  | Low | Limits | RPD |
|---------------|-------------|-------|--------|------|-----|-----|------|------|-----|--------|-----|
|               |             |       |        |      |     |     |      | Qual |     | High   |     |
| PB165198BSD   | 1,4-Dioxane | 0.4   | 0.35   | ug/L | 88  | 16  |      |      | 70  | 130    | 20  |

4B

SEMIVOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

PB165198BL

Lab Name: CHEMTECH

Contract: TETR06

Lab Code: CHEM Case No.: P4959

SAS No.: P4959 SDG NO.: P4959

Lab File ID: BN035369.D

Lab Sample ID: PB165198BL

Instrument ID: BNA\_N

Date Extracted: 11/22/2024

Matrix: (soil/water) Water

Date Analyzed: 11/28/2024

Level: (low/med) LOW

Time Analyzed: 05:27

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

| EPA<br>SAMPLE NO.  | LAB<br>SAMPLE ID | LAB<br>FILE ID | DATE<br>ANALYZED |
|--------------------|------------------|----------------|------------------|
| PB165198BS         | PB165198BS       | BN035370.D     | 11/28/2024       |
| PB165198BSD        | PB165198BSD      | BN035371.D     | 11/28/2024       |
| RW5-SP100-20241121 | P4959-01         | BN035374.D     | 11/28/2024       |
| RW5-SP201-20241121 | P4959-02         | BN035298.D     | 11/26/2024       |
| RW5-SP303-20241121 | P4959-03         | BN035299.D     | 11/26/2024       |

COMMENTS: \_\_\_\_\_  
\_\_\_\_\_



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5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK  
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECHContract: TETR06Lab Code: CHEMSAS No.: P4959 SDG NO.: P4959Lab File ID: BN035276.DDFTPP Injection Date: 11/25/2024Instrument ID: BNA\_NDFTPP Injection Time: 09:37

| m/e | ION ABUNDANCE CRITERIA             | % RELATIVE ABUNDANCE |
|-----|------------------------------------|----------------------|
| 51  | 10.0 - 80.0% of mass 198           | 22.2                 |
| 68  | Less than 2.0% of mass 69          | 0.0 ( 0.0 ) 1        |
| 69  | Mass 69 relative abundance         | 30.5                 |
| 70  | Less than 2.0% of mass 69          | 0.2 ( 0.5 ) 1        |
| 127 | 10.0 - 80.0% of mass 198           | 40.9                 |
| 197 | Less than 2.0% of mass 198         | 0.2                  |
| 198 | Base Peak, 100% relative abundance | 100                  |
| 199 | 5.0 to 9.0% of mass 198            | 6.7                  |
| 275 | 10.0 - 60.0% of mass 198           | 28.2                 |
| 365 | Greater than 1% of mass 198        | 4.2                  |
| 441 | Present, but less than mass 443    | 10.4                 |
| 442 | Greater than 50% of mass 198       | 65.2                 |
| 443 | 15.0 - 24.0% of mass 442           | 12.3 ( 18.9 ) 2      |

1-Value is % mass 69

2-Value is % mass 442

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

| EPA<br>SAMPLE NO. | LAB<br>SAMPLE ID | LAB<br>FILE ID | DATE<br>ANALYZED | TIME<br>ANALYZED |
|-------------------|------------------|----------------|------------------|------------------|
| SSTDICC0.1        | SSTDICC0.1       | BN035277.D     | 11/25/2024       | 10:16            |
| SSTDICC0.2        | SSTDICC0.2       | BN035278.D     | 11/25/2024       | 10:52            |
| SSTDICCC0.4       | SSTDICCC0.4      | BN035279.D     | 11/25/2024       | 11:28            |
| SSTDICC0.8        | SSTDICC0.8       | BN035280.D     | 11/25/2024       | 12:04            |
| SSTDICC1.6        | SSTDICC1.6       | BN035281.D     | 11/25/2024       | 12:40            |
| SSTDICC3.2        | SSTDICC3.2       | BN035282.D     | 11/25/2024       | 13:16            |
| SSTDICC5.0        | SSTDICC5.0       | BN035283.D     | 11/25/2024       | 13:52            |



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5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK  
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECHContract: TETR06Lab Code: CHEMSAS No.: P4959 SDG NO.: P4959Lab File ID: BN035292.DDFTPP Injection Date: 11/25/2024Instrument ID: BNA\_NDFTPP Injection Time: 20:35

| m/e | ION ABUNDANCE CRITERIA             | % RELATIVE ABUNDANCE |
|-----|------------------------------------|----------------------|
| 51  | 10.0 - 80.0% of mass 198           | 21.5                 |
| 68  | Less than 2.0% of mass 69          | 0.0 ( 0.0 ) 1        |
| 69  | Mass 69 relative abundance         | 28.6                 |
| 70  | Less than 2.0% of mass 69          | 0.1 ( 0.5 ) 1        |
| 127 | 10.0 - 80.0% of mass 198           | 40.4                 |
| 197 | Less than 2.0% of mass 198         | 0.0                  |
| 198 | Base Peak, 100% relative abundance | 100                  |
| 199 | 5.0 to 9.0% of mass 198            | 6.8                  |
| 275 | 10.0 - 60.0% of mass 198           | 29                   |
| 365 | Greater than 1% of mass 198        | 4.6                  |
| 441 | Present, but less than mass 443    | 11.9                 |
| 442 | Greater than 50% of mass 198       | 71                   |
| 443 | 15.0 - 24.0% of mass 442           | 13.4 ( 18.8 ) 2      |

1-Value is % mass 69

2-Value is % mass 442

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

| EPA<br>SAMPLE NO.  | LAB<br>SAMPLE ID | LAB<br>FILE ID | DATE<br>ANALYZED | TIME<br>ANALYZED |
|--------------------|------------------|----------------|------------------|------------------|
| SSTDCCC0.4         | SSTDCCC0.4       | BN035293.D     | 11/25/2024       | 23:02            |
| RW5-SP201-20241121 | P4959-02         | BN035298.D     | 11/26/2024       | 02:02            |
| RW5-SP303-20241121 | P4959-03         | BN035299.D     | 11/26/2024       | 02:38            |
| SSTDCCC0.4EC       | SSTDCCC0.4       | BN035300.D     | 11/26/2024       | 03:14            |



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

5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK  
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECHContract: TETR06Lab Code: CHEMSAS No.: P4959 SDG NO.: P4959Lab File ID: BN035349.DDFTPP Injection Date: 11/27/2024Instrument ID: BNA\_NDFTPP Injection Time: 14:55

| m/e | ION ABUNDANCE CRITERIA             | % RELATIVE ABUNDANCE |
|-----|------------------------------------|----------------------|
| 51  | 10.0 - 80.0% of mass 198           | 21.6                 |
| 68  | Less than 2.0% of mass 69          | 0.0 ( 0.0 ) 1        |
| 69  | Mass 69 relative abundance         | 28.9                 |
| 70  | Less than 2.0% of mass 69          | 0.1 ( 0.4 ) 1        |
| 127 | 10.0 - 80.0% of mass 198           | 39.4                 |
| 197 | Less than 2.0% of mass 198         | 0.0                  |
| 198 | Base Peak, 100% relative abundance | 100                  |
| 199 | 5.0 to 9.0% of mass 198            | 6.7                  |
| 275 | 10.0 - 60.0% of mass 198           | 27.9                 |
| 365 | Greater than 1% of mass 198        | 4.6                  |
| 441 | Present, but less than mass 443    | 11.5                 |
| 442 | Greater than 50% of mass 198       | 70.8                 |
| 443 | 15.0 - 24.0% of mass 442           | 14 ( 19.7 ) 2        |

1-Value is % mass 69

2-Value is % mass 442

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

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



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Fax : 908 789 8922

5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK  
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECHContract: TETR06Lab Code: CHEMSAS No.: P4959SDG NO.: P4959Lab File ID: BN035367.DDFTPP Injection Date: 11/28/2024Instrument ID: BNA\_NDFTPP Injection Time: 03:35

| m/e | ION ABUNDANCE CRITERIA             | % RELATIVE ABUNDANCE |
|-----|------------------------------------|----------------------|
| 51  | 10.0 - 80.0% of mass 198           | 22.7                 |
| 68  | Less than 2.0% of mass 69          | 0.0 ( 0.0 ) 1        |
| 69  | Mass 69 relative abundance         | 29.8                 |
| 70  | Less than 2.0% of mass 69          | 0.2 ( 0.6 ) 1        |
| 127 | 10.0 - 80.0% of mass 198           | 40.4                 |
| 197 | Less than 2.0% of mass 198         | 0.0                  |
| 198 | Base Peak, 100% relative abundance | 100                  |
| 199 | 5.0 to 9.0% of mass 198            | 7                    |
| 275 | 10.0 - 60.0% of mass 198           | 29.7                 |
| 365 | Greater than 1% of mass 198        | 4.8                  |
| 441 | Present, but less than mass 443    | 12.8                 |
| 442 | Greater than 50% of mass 198       | 76.8                 |
| 443 | 15.0 - 24.0% of mass 442           | 15 ( 19.5 ) 2        |

1-Value is % mass 69

2-Value is % mass 442

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

| EPA<br>SAMPLE NO.  | LAB<br>SAMPLE ID | LAB<br>FILE ID | DATE<br>ANALYZED | TIME<br>ANALYZED |
|--------------------|------------------|----------------|------------------|------------------|
| SSTDCCC0.4         | SSTDCCC0.4       | BN035368.D     | 11/28/2024       | 04:51            |
| PB165198BL         | PB165198BL       | BN035369.D     | 11/28/2024       | 05:27            |
| PB165198BS         | PB165198BS       | BN035370.D     | 11/28/2024       | 06:03            |
| PB165198BSD        | PB165198BSD      | BN035371.D     | 11/28/2024       | 06:39            |
| RW5-SP100-20241121 | P4959-01         | BN035374.D     | 11/28/2024       | 08:26            |
| SSTDCCC0.4EC       | SSTDCCC0.4       | BN035375.D     | 11/28/2024       | 09:02            |

8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: P4959 SAS No.: P4959 SDG NO.: P4959

EPA Sample No.: SSTDCCC0.4 Date Analyzed: 11/25/2024

Lab File ID: BN035293.D Time Analyzed: 23:02

Instrument ID: BNA\_N GC Column: ZB-GR ID: 0.25 (mm)

|                       | IS1 (DCB)<br>AREA # | RT #  | IS2 (NPT)<br>AREA # | RT #   | IS3 (ANT)<br>AREA # | RT #   |
|-----------------------|---------------------|-------|---------------------|--------|---------------------|--------|
| 12 HOUR STD           | 3724                | 7.315 | 9273                | 10.06  | 5865                | 13.97  |
| UPPER LIMIT           | 7448                | 7.815 | 18546               | 10.563 | 11730               | 14.473 |
| LOWER LIMIT           | 1862                | 6.815 | 4636.5              | 9.563  | 2932.5              | 13.473 |
| EPA SAMPLE NO.        |                     |       |                     |        |                     |        |
| 01 RW5-SP201-20241121 | 3353                | 7.32  | 8974                | 10.06  | 7827                | 13.97  |
| 02 RW5-SP303-20241121 | 4025                | 7.32  | 10571               | 10.06  | 6682                | 13.97  |

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.

8C

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: P4959 SAS No.: P4959 SDG NO.: P4959

EPA Sample No.: SSTDCCC0.4 Date Analyzed: 11/25/2024

Lab File ID: BN035293.D Time Analyzed: 23:02

Instrument ID: BNA\_N GC Column: ZB-GR ID: 0.25 (mm)

|                       | IS4 (PHN)<br>AREA # | RT #   | IS5 (CRY)<br>AREA # | RT #   | IS6 (PRY)<br>AREA # | RT #   |
|-----------------------|---------------------|--------|---------------------|--------|---------------------|--------|
| 12 HOUR STD           | 12563               | 16.741 | 932                 | 21.00€ | 7119                | 23.078 |
| UPPER LIMIT           | 25126               | 17.241 | 1864                | 21.50€ | 14238               | 23.578 |
| LOWER LIMIT           | 6281.5              | 16.241 | 466                 | 20.50€ | 3559.5              | 22.578 |
| EPA SAMPLE NO.        |                     |        |                     |        |                     |        |
| 01 RW5-SP201-20241121 | 12956               | 16.73  | 823                 | 21.01  | 7685                | 23.08  |
| 02 RW5-SP303-20241121 | 14026               | 16.73  | 880                 | 21.01  | 7740                | 23.08  |

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.



8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: P4959 SAS No.: P4959 SDG NO.: P4959

EPA Sample No.: SSTDCCC0.4 Date Analyzed: 11/28/2024

Lab File ID: BN035368.D Time Analyzed: 04:51

Instrument ID: BNA\_N GC Column: ZB-GR ID: 0.25 (mm)

|                       | IS1 (DCB)<br>AREA # | RT #  | IS2 (NPT)<br>AREA # | RT #   | IS3 (ANT)<br>AREA # | RT #   |
|-----------------------|---------------------|-------|---------------------|--------|---------------------|--------|
| 12 HOUR STD           | 2051                | 7.308 | 5360                | 10.05  | 3908                | 13.97  |
| UPPER LIMIT           | 4102                | 7.808 | 10720               | 10.552 | 7816                | 14.467 |
| LOWER LIMIT           | 1025.5              | 6.808 | 2680                | 9.552  | 1954                | 13.467 |
| EPA SAMPLE NO.        |                     |       |                     |        |                     |        |
| 01 RW5-SP100-20241121 | 1752                | 7.31  | 4244                | 10.05  | 3218                | 13.97  |
| 02 PB165198BL         | 2540                | 7.31  | 6378                | 10.06  | 4630                | 13.97  |
| 03 PB165198BS         | 2262                | 7.31  | 5496                | 10.05  | 3686                | 13.97  |
| 04 PB165198BSD        | 2376                | 7.31  | 5724                | 10.05  | 3806                | 13.97  |

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.

8C

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: P4959 SAS No.: P4959 SDG NO.: P4959

EPA Sample No.: SSTDCCC0.4 Date Analyzed: 11/28/2024

Lab File ID: BN035368.D Time Analyzed: 04:51

Instrument ID: BNA\_N GC Column: ZB-GR ID: 0.25 (mm)

|                       | IS4 (PHN)<br>AREA # | RT #   | IS5 (CRY)<br>AREA # | RT #   | IS6 (PRY)<br>AREA # | RT #   |
|-----------------------|---------------------|--------|---------------------|--------|---------------------|--------|
| 12 HOUR STD           | 9758                | 16.723 | 9496                | 20.974 | 10416               | 23.067 |
| UPPER LIMIT           | 19516               | 17.223 | 18992               | 21.474 | 20832               | 23.567 |
| LOWER LIMIT           | 4879                | 16.223 | 4748                | 20.474 | 5208                | 22.567 |
| EPA SAMPLE NO.        |                     |        |                     |        |                     |        |
| 01 RW5-SP100-20241121 | 8380                | 16.74  | 7890                | 20.97  | 7953                | 23.07  |
| 02 PB165198BL         | 11721               | 16.74  | 10667               | 20.97  | 11480               | 23.07  |
| 03 PB165198BS         | 9203                | 16.72  | 8666                | 20.97  | 8924                | 23.07  |
| 04 PB165198BSD        | 9566                | 16.74  | 8948                | 20.97  | 9280                | 23.07  |

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

## Report of Analysis

|                    |                       |                 |                |
|--------------------|-----------------------|-----------------|----------------|
| Client:            | Tetra Tech NUS, Inc.  | Date Collected: | 11/21/24       |
| Project:           | CTO WE13              | Date Received:  | 11/22/24       |
| Client Sample ID:  | RW5-SP100-20241121    | SDG No.:        | P4959          |
| Lab Sample ID:     | P4959-01              | Matrix:         | Water          |
| Analytical Method: | SW8270SIM             | % 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 :      | SW3510C               |                 |                |

|                   |           |                |                |               |
|-------------------|-----------|----------------|----------------|---------------|
| File ID/Qc Batch: | Dilution: | Prep Date      | Date Analyzed  | Prep Batch ID |
| BN035374.D        | 5         | 11/22/24 12:25 | 11/28/24 08:26 | PB165198      |

| CAS Number                | Parameter               | Conc. | Qualifier | MDL      | LOD  | LOQ / CRQL | Units    |
|---------------------------|-------------------------|-------|-----------|----------|------|------------|----------|
| <b>TARGETS</b>            |                         |       |           |          |      |            |          |
| 123-91-1                  | 1,4-Dioxane             | 10.4  |           | 0.34     | 1.00 | 1.00       | ug/L     |
| <b>SURROGATES</b>         |                         |       |           |          |      |            |          |
| 7297-45-2                 | 2-Methylnaphthalene-d10 | 0.49  |           | 30 - 150 |      | 123%       | SPK: 0.4 |
| 93951-69-0                | Fluoranthene-d10        | 0.58  |           | 30 - 150 |      | 145%       | SPK: 0.4 |
| 4165-60-0                 | Nitrobenzene-d5         | 0.43  |           | 55 - 111 |      | 106%       | SPK: 0.4 |
| 321-60-8                  | 2-Fluorobiphenyl        | 0.44  | *         | 53 - 106 |      | 110%       | SPK: 0.4 |
| 1718-51-0                 | Terphenyl-d14           | 0.66  | *         | 58 - 132 |      | 165%       | SPK: 0.4 |
| <b>INTERNAL STANDARDS</b> |                         |       |           |          |      |            |          |
| 3855-82-1                 | 1,4-Dichlorobenzene-d4  | 1750  |           | 7.308    |      |            |          |
| 1146-65-2                 | Naphthalene-d8          | 4240  |           | 10.052   |      |            |          |
| 15067-26-2                | Acenaphthene-d10        | 3220  |           | 13.967   |      |            |          |
| 1517-22-2                 | Phenanthrene-d10        | 8380  |           | 16.736   |      |            |          |
| 1719-03-5                 | Chrysene-d12            | 7890  |           | 20.974   |      |            |          |
| 1520-96-3                 | Perylene-d12            | 7950  |           | 23.067   |      |            |          |

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\BN112724\  
Data File : BN035374.D  
Acq On : 28 Nov 2024 08:26  
Operator : RC/JU  
Sample : P4959-01 5X  
Misc :  
ALS Vial : 28 Sample Multiplier: 1

Instrument :  
BNA\_N  
ClientSampleId :  
RW5-SP100-20241121

Quant Time: Nov 29 00:19:22 2024  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\8270-SIM-BN112724.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Wed Nov 27 23:03:24 2024  
Response via : Initial Calibration

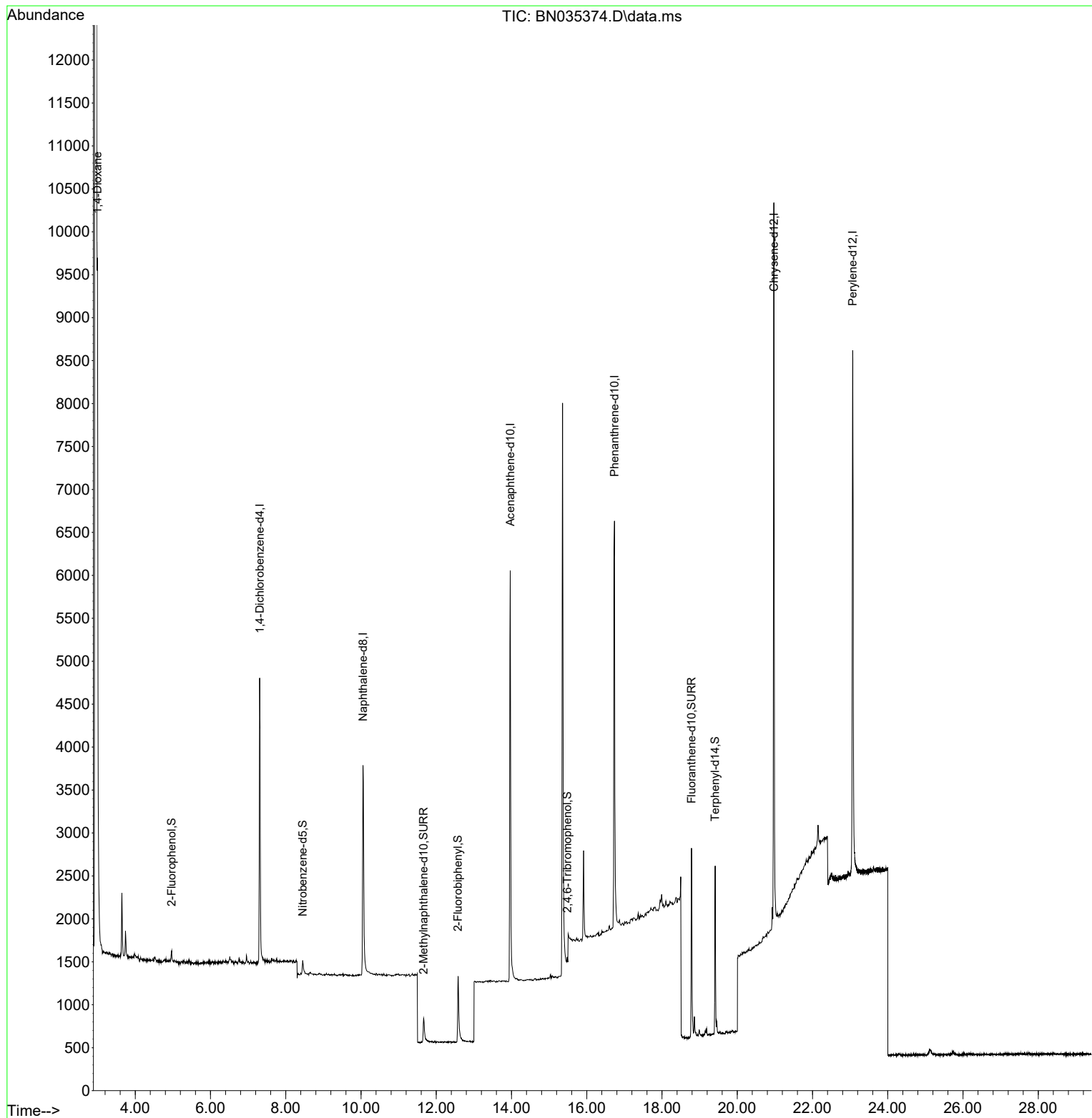
| Compound                    | R.T.   | QIon | Response | Conc  | Units | Dev(Min)  |
|-----------------------------|--------|------|----------|-------|-------|-----------|
| -----                       |        |      |          |       |       |           |
| Internal Standards          |        |      |          |       |       |           |
| 1) 1,4-Dichlorobenzene-d4   | 7.308  | 152  | 1752     | 0.400 | ng    | 0.00      |
| 7) Naphthalene-d8           | 10.052 | 136  | 4244     | 0.400 | ng    | 0.00      |
| 13) Acenaphthene-d10        | 13.967 | 164  | 3218     | 0.400 | ng    | 0.00      |
| 19) Phenanthrene-d10        | 16.736 | 188  | 8380     | 0.400 | ng    | # 0.00    |
| 29) Chrysene-d12            | 20.974 | 240  | 7890     | 0.400 | ng    | 0.00      |
| 35) Perylene-d12            | 23.067 | 264  | 7953     | 0.400 | ng    | 0.00      |
| System Monitoring Compounds |        |      |          |       |       |           |
| 4) 2-Fluorophenol           | 4.968  | 112  | 133      | 0.030 | ng    | 0.00      |
| 5) Phenol-d6                | 6.513  | 99   | 78       | 0.015 | ng    | 0.00      |
| 8) Nitrobenzene-d5          | 8.450  | 82   | 220m     | 0.085 | ng    | 0.01      |
| 11) 2-Methylnaphthalene-d10 | 11.666 | 152  | 652      | 0.098 | ng    | 0.01      |
| 14) 2,4,6-Tribromophenol    | 15.485 | 330  | 129      | 0.056 | ng    | 0.01      |
| 15) 2-Fluorobiphenyl        | 12.579 | 172  | 1075     | 0.088 | ng    | 0.00      |
| 27) Fluoranthene-d10        | 18.785 | 212  | 2744     | 0.116 | ng    | 0.00      |
| 31) Terphenyl-d14           | 19.412 | 244  | 2060     | 0.132 | ng    | 0.00      |
| Target Compounds            |        |      |          |       |       |           |
| 2) 1,4-Dioxane              | 2.996  | 88   | 3433     | 2.050 | ng    | Qvalue 96 |
| -----                       |        |      |          |       |       |           |

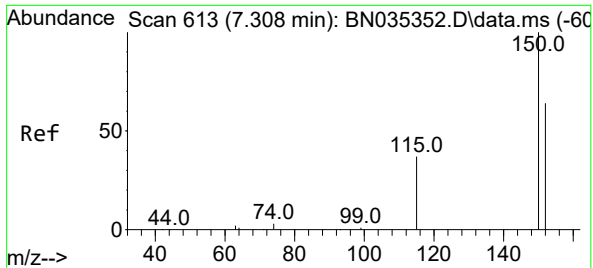
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN112724\  
Data File : BN035374.D  
Acq On : 28 Nov 2024 08:26  
Operator : RC/JU  
Sample : P4959-01 5X  
Misc :  
ALS Vial : 28 Sample Multiplier: 1

Instrument :  
BNA\_N  
ClientSampleId :  
RW5-SP100-20241121

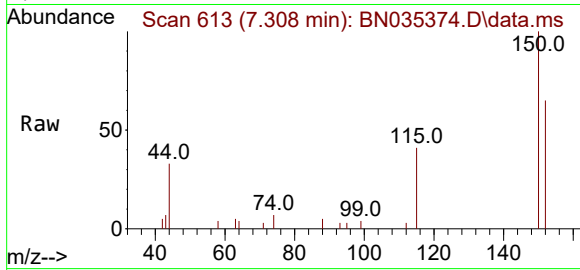
Quant Time: Nov 29 00:19:22 2024  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\8270-SIM-BN112724.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Wed Nov 27 23:03:24 2024  
Response via : Initial Calibration



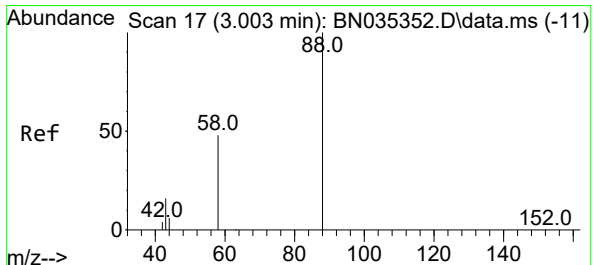
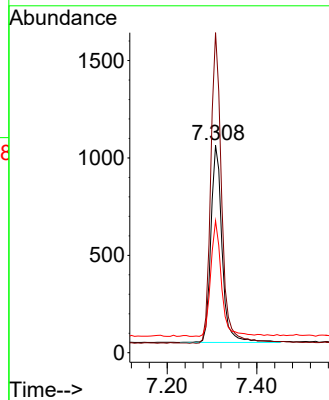
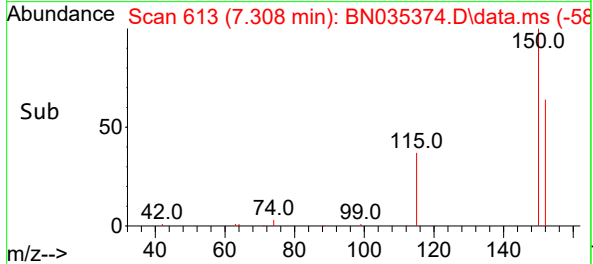


#1  
1,4-Dichlorobenzene-d4  
Concen: 0.400 ng  
RT: 7.308 min Scan# 61  
Delta R.T. -0.000 min  
Lab File: BN035374.D  
Acq: 28 Nov 2024 08:26

Instrument :  
BNA\_N  
ClientSampleId :  
RW5-SP100-20241121

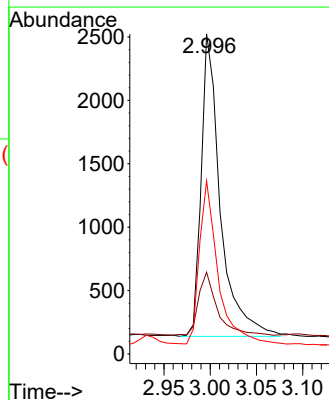
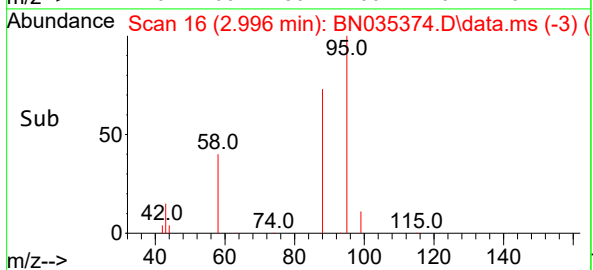
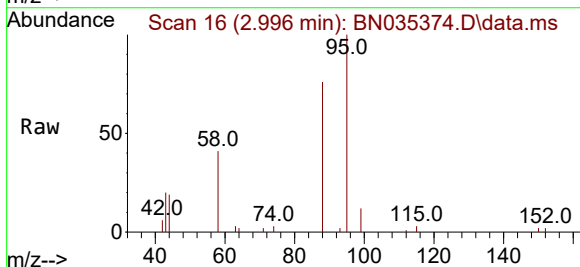


Tgt Ion:152 Resp: 1752  
Ion Ratio Lower Upper  
152 100  
150 154.3 124.0 186.0  
115 63.6 49.6 74.4

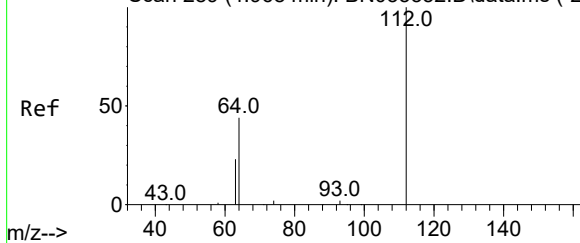


#2  
1,4-Dioxane  
Concen: 2.050 ng  
RT: 2.996 min Scan# 16  
Delta R.T. -0.007 min  
Lab File: BN035374.D  
Acq: 28 Nov 2024 08:26

Tgt Ion: 88 Resp: 3433  
Ion Ratio Lower Upper  
88 100  
43 20.4 17.2 25.8  
58 52.1 44.5 66.7



Abundance Scan 289 (4.968 min): BN035352.D\data.ms (-28



#4

2-Fluorophenol

Concen: 0.030 ng

RT: 4.968 min Scan# 21

Delta R.T. 0.000 min

Lab File: BN035374.D

Acq: 28 Nov 2024 08:26

Instrument :

BNA\_N

ClientSampleId :

RW5-SP100-20241121

Tgt Ion:112 Resp: 133

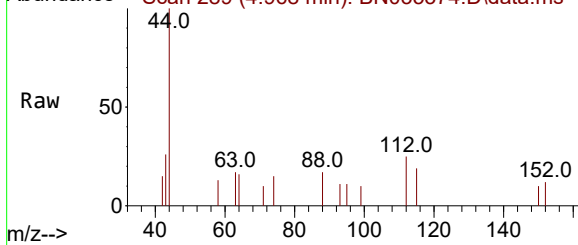
Ion Ratio Lower Upper

112 100

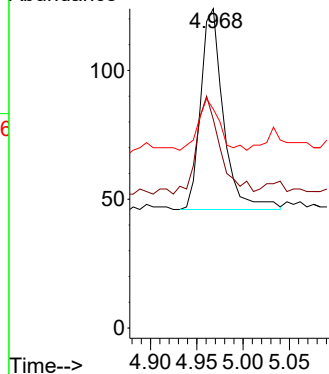
64 50.4 39.8 59.8

63 27.8 21.0 31.6

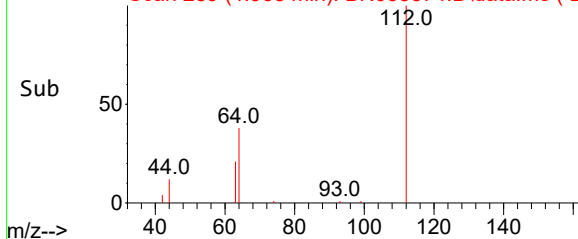
Abundance Scan 289 (4.968 min): BN035374.D\data.ms



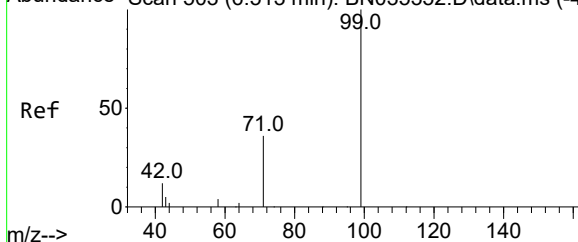
Abundance



Abundance Scan 289 (4.968 min): BN035374.D\data.ms (-26



Abundance Scan 503 (6.513 min): BN035352.D\data.ms (-49



#5

Phenol-d6

Concen: 0.015 ng

RT: 6.513 min Scan# 503

Delta R.T. 0.000 min

Lab File: BN035374.D

Acq: 28 Nov 2024 08:26

Tgt Ion: 99 Resp: 78

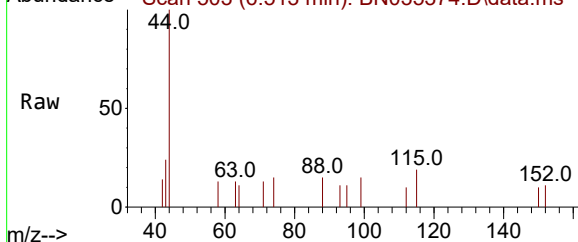
Ion Ratio Lower Upper

99 100

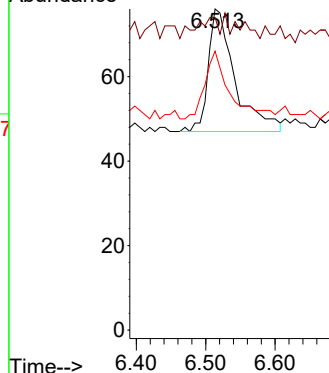
42 14.1 11.4 17.2

71 56.4 29.3 43.9#

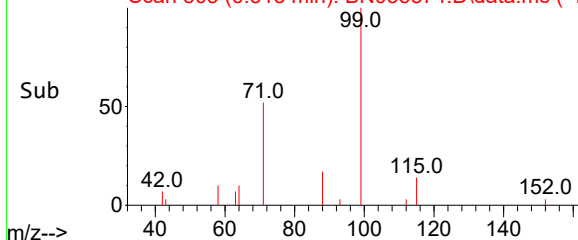
Abundance Scan 503 (6.513 min): BN035374.D\data.ms



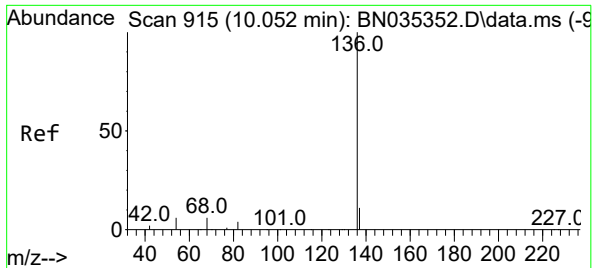
Abundance



Abundance Scan 503 (6.513 min): BN035374.D\data.ms (-47



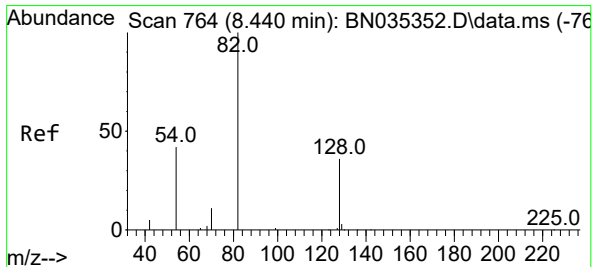
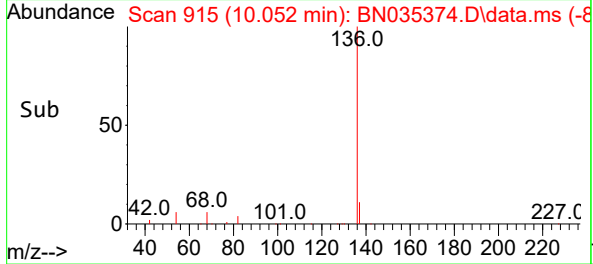
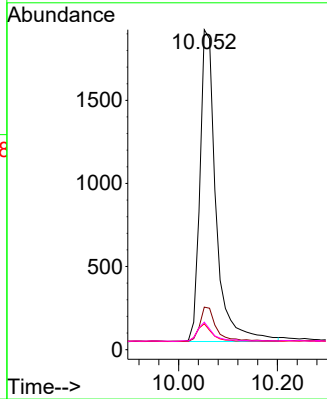
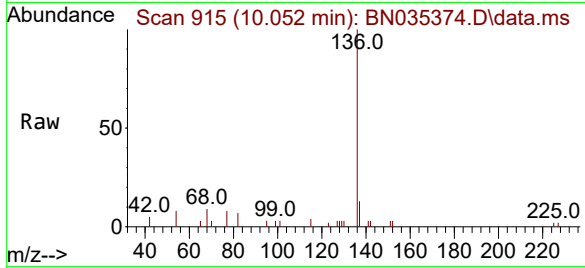




#7  
Naphthalene-d8  
Concen: 0.400 ng  
RT: 10.052 min Scan# 915  
Delta R.T. 0.000 min  
Lab File: BN035374.D  
Acq: 28 Nov 2024 08:26

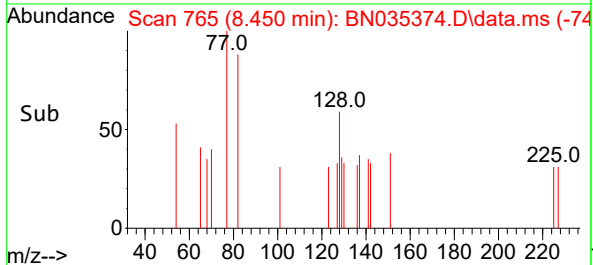
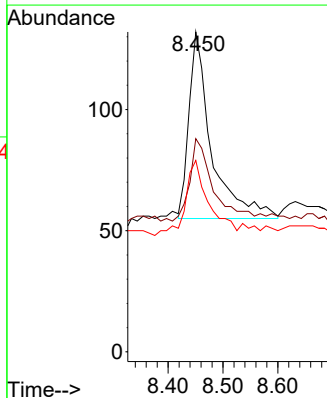
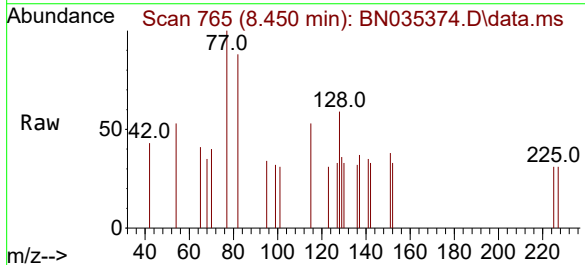
Instrument :  
BNA\_N  
ClientSampleId :  
RW5-SP100-20241121

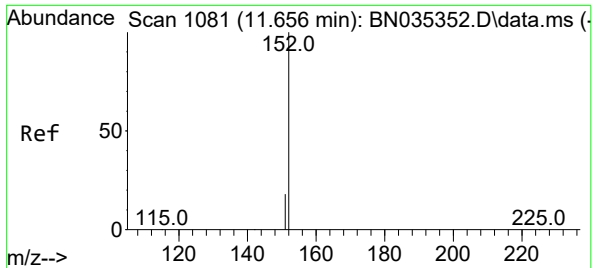
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 136   | Resp: | 4244  |
| Ion      | Ratio | Lower | Upper |
| 136      | 100   |       |       |
| 137      | 13.3  | 10.2  | 15.2  |
| 54       | 8.1   | 6.1   | 9.1   |
| 68       | 8.6   | 6.4   | 9.6   |



#8  
Nitrobenzene-d5  
Concen: 0.085 ng m  
RT: 8.450 min Scan# 765  
Delta R.T. 0.011 min  
Lab File: BN035374.D  
Acq: 28 Nov 2024 08:26

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 82    | Resp: | 220   |
| Ion      | Ratio | Lower | Upper |
| 82       | 100   |       |       |
| 128      | 66.7  | 33.4  | 50.0# |
| 54       | 59.8  | 36.7  | 55.1# |

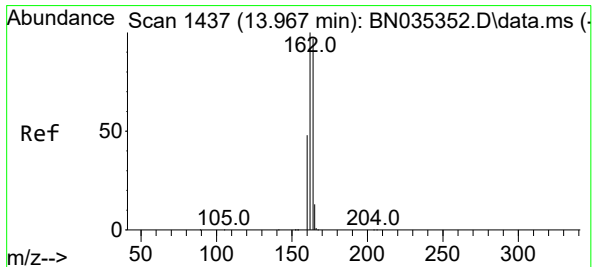
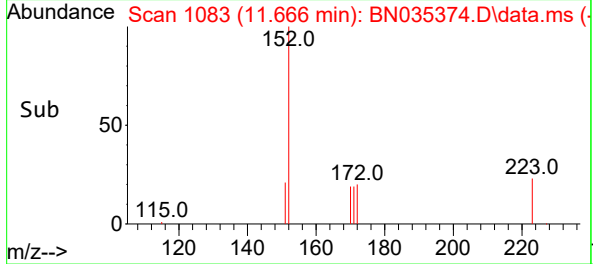
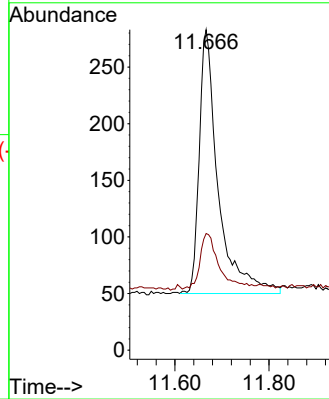
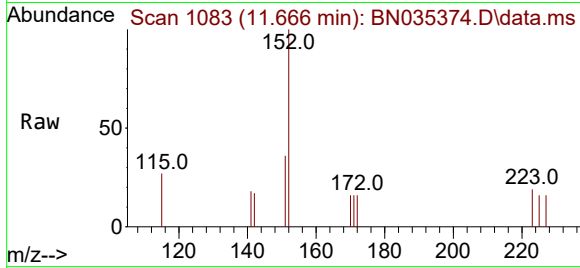




#11  
2-Methylnaphthalene-d10  
Concen: 0.098 ng  
RT: 11.666 min Scan# 1083  
Delta R.T. 0.010 min  
Lab File: BN035374.D  
Acq: 28 Nov 2024 08:26

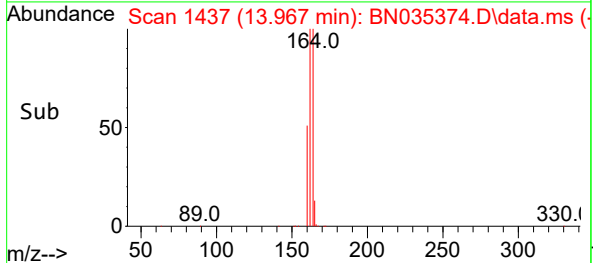
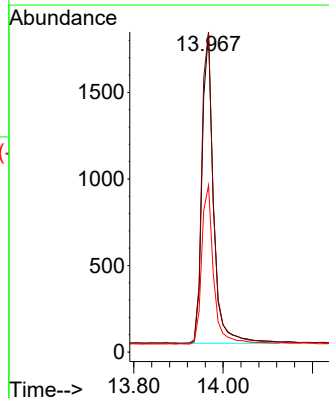
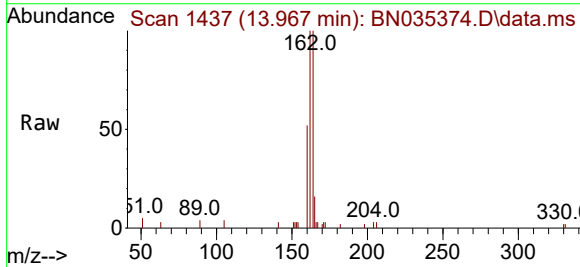
Instrument :  
BNA\_N  
ClientSampleId :  
RW5-SP100-20241121

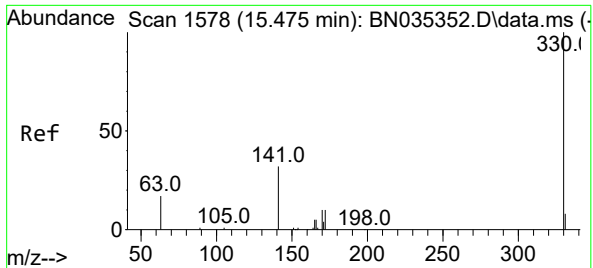
Tgt Ion:152 Resp: 652  
Ion Ratio Lower Upper  
152 100  
151 21.3 16.6 25.0



#13  
Acenaphthene-d10  
Concen: 0.400 ng  
RT: 13.967 min Scan# 1437  
Delta R.T. 0.000 min  
Lab File: BN035374.D  
Acq: 28 Nov 2024 08:26

Tgt Ion:164 Resp: 3218  
Ion Ratio Lower Upper  
164 100  
162 100.1 82.2 123.2  
160 52.2 40.1 60.1

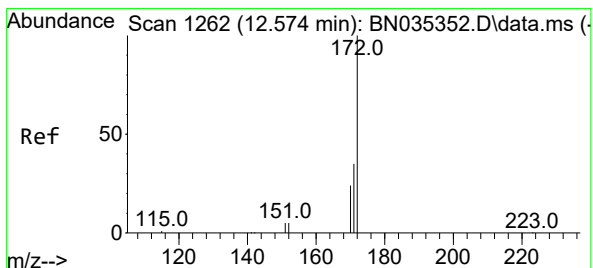
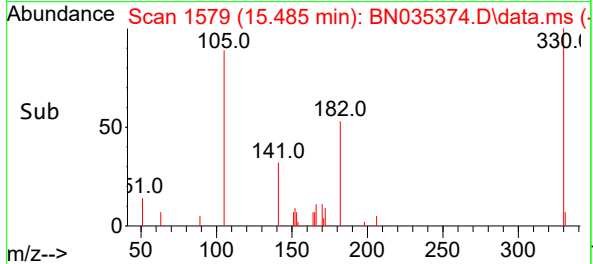
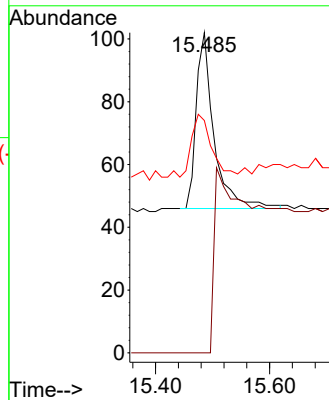
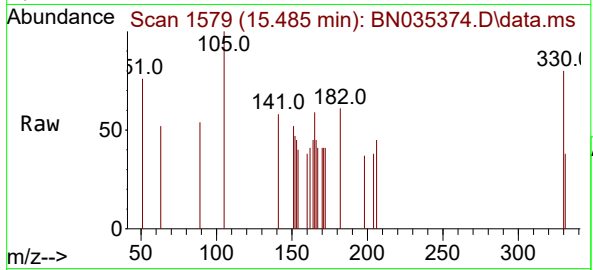




#14  
2,4,6-Tribromophenol  
Concen: 0.056 ng  
RT: 15.485 min Scan# 11  
Delta R.T. 0.011 min  
Lab File: BN035374.D  
Acq: 28 Nov 2024 08:26

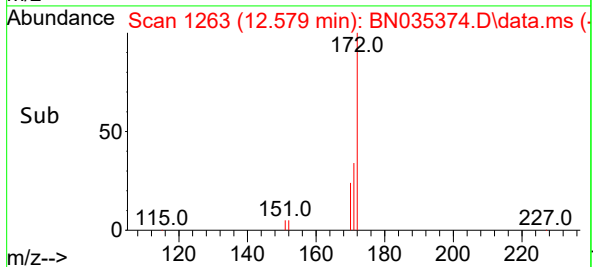
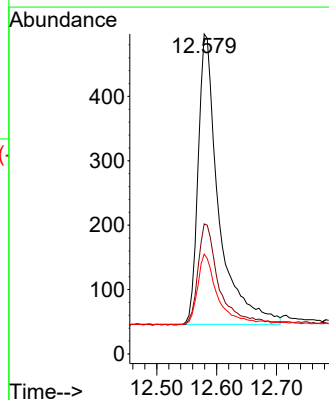
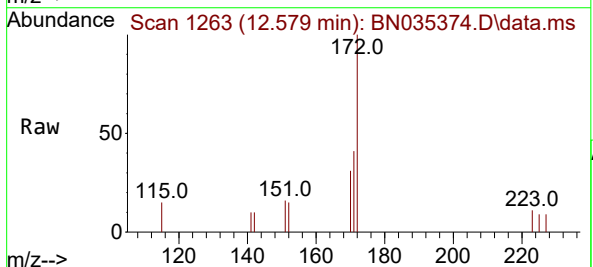
Instrument :  
BNA\_N  
ClientSampleId :  
RW5-SP100-20241121

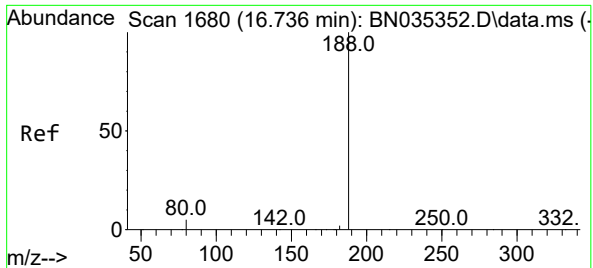
Tgt Ion:330 Resp: 129  
Ion Ratio Lower Upper  
330 100  
332 0.0 0.0 0.0  
141 39.5 26.6 40.0



#15  
2-Fluorobiphenyl  
Concen: 0.088 ng  
RT: 12.579 min Scan# 1263  
Delta R.T. 0.005 min  
Lab File: BN035374.D  
Acq: 28 Nov 2024 08:26

Tgt Ion:172 Resp: 1075  
Ion Ratio Lower Upper  
172 100  
171 40.6 29.0 43.4  
170 31.2 19.8 29.8#





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 16.736 min Scan# 1

Delta R.T. 0.000 min

Lab File: BN035374.D

Acq: 28 Nov 2024 08:26

Instrument :

BNA\_N

ClientSampleId :

RW5-SP100-20241121

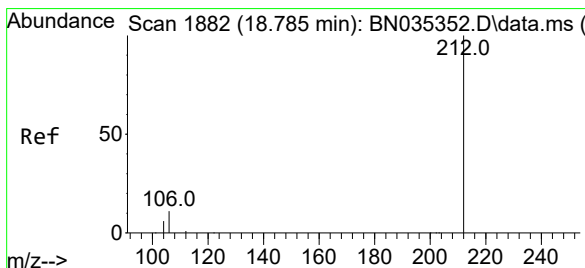
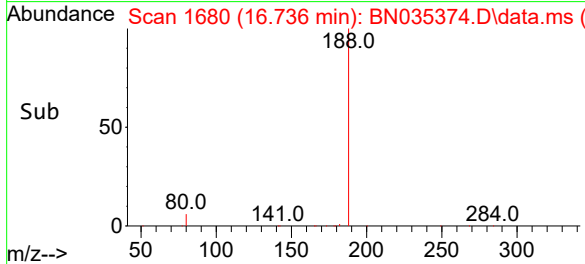
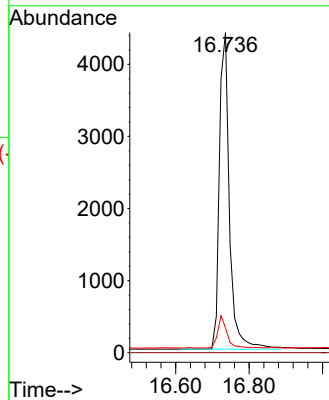
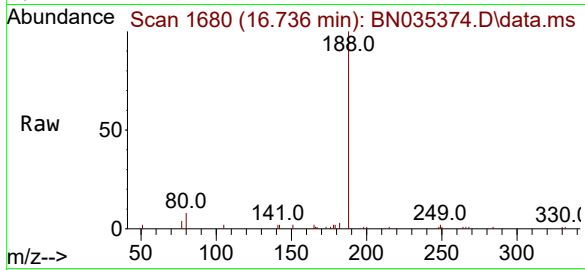
Tgt Ion:188 Resp: 8380

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 7.7 4.6 6.8#



#27

Fluoranthene-d10

Concen: 0.116 ng

RT: 18.785 min Scan# 1882

Delta R.T. 0.000 min

Lab File: BN035374.D

Acq: 28 Nov 2024 08:26

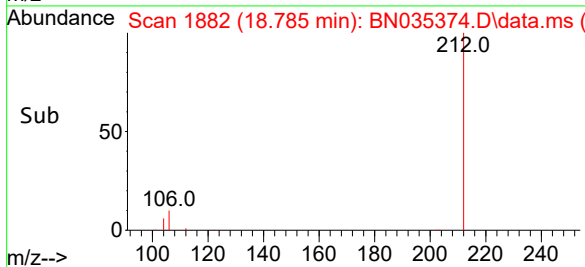
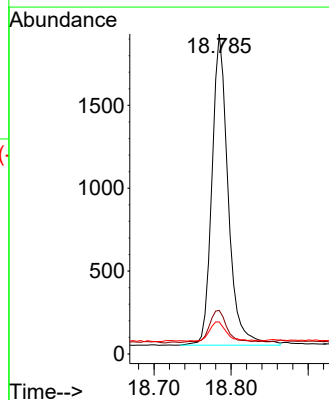
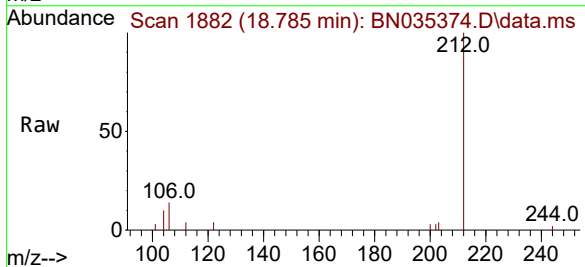
Tgt Ion:212 Resp: 2744

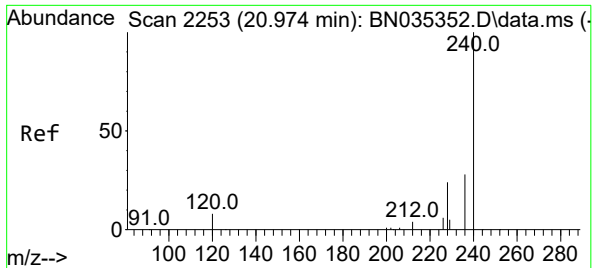
Ion Ratio Lower Upper

212 100

106 11.4 9.2 13.8

104 6.7 5.3 7.9

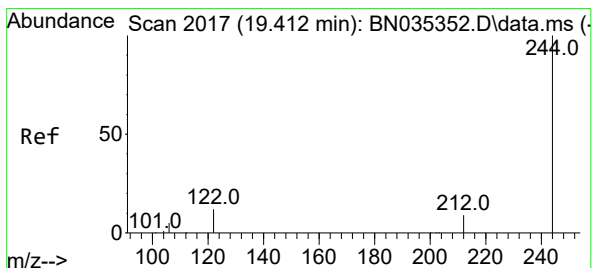
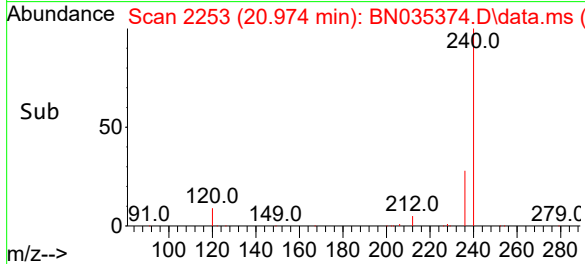
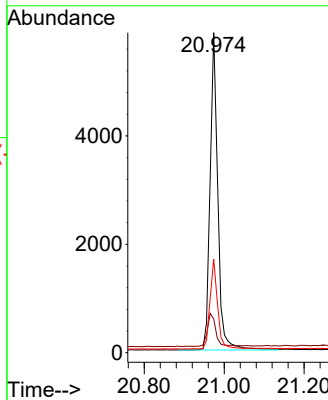
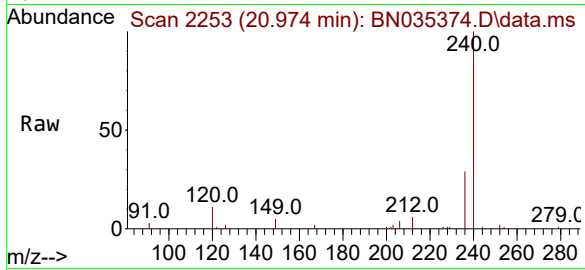




#29  
Chrysene-d12  
Concen: 0.400 ng  
RT: 20.974 min Scan# 21  
Delta R.T. 0.000 min  
Lab File: BN035374.D  
Acq: 28 Nov 2024 08:26

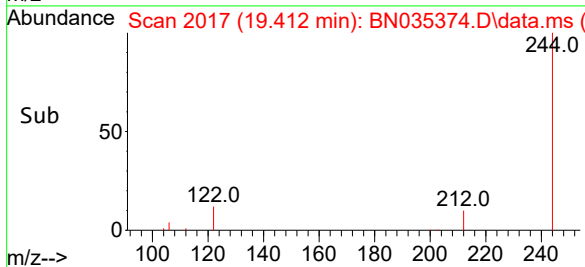
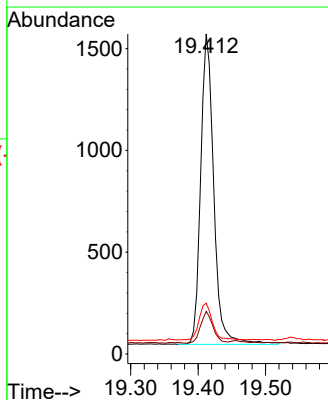
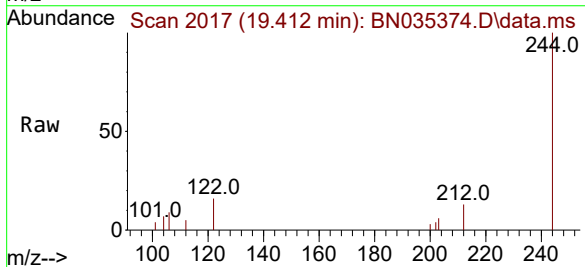
Instrument :  
BNA\_N  
ClientSampleId :  
RW5-SP100-20241121

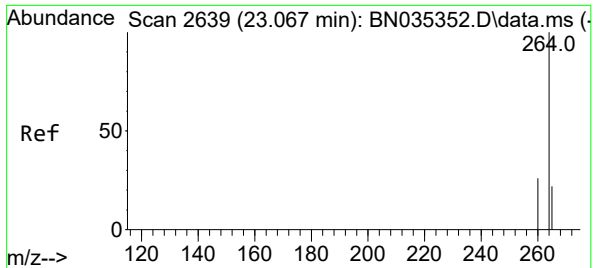
Tgt Ion:240 Resp: 7890  
Ion Ratio Lower Upper  
240 100  
120 10.5 7.9 11.9  
236 29.2 22.9 34.3



#31  
Terphenyl-d14  
Concen: 0.132 ng  
RT: 19.412 min Scan# 2017  
Delta R.T. 0.000 min  
Lab File: BN035374.D  
Acq: 28 Nov 2024 08:26

Tgt Ion:244 Resp: 2060  
Ion Ratio Lower Upper  
244 100  
212 13.3 8.1 12.1#  
122 15.8 10.3 15.5#





#35

Perylene-d12

Concen: 0.400 ng

RT: 23.067 min Scan# 20

Delta R.T. 0.000 min

Lab File: BN035374.D

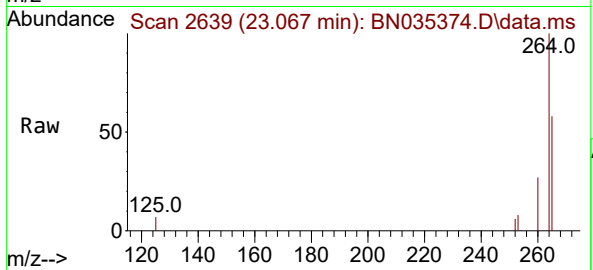
Acq: 28 Nov 2024 08:26

Instrument :

BNA\_N

ClientSampleId :

RW5-SP100-20241121



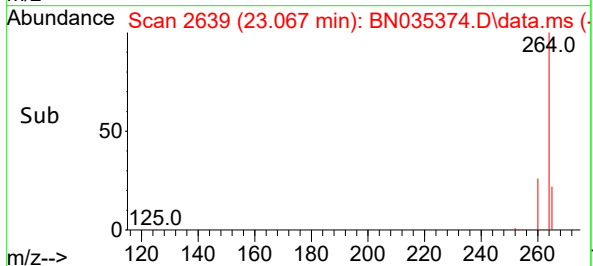
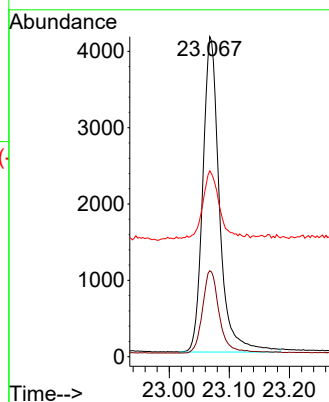
Tgt Ion:264 Resp: 7953

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
|-----|-------|-------|-------|

|     |     |  |  |
|-----|-----|--|--|
| 264 | 100 |  |  |
|-----|-----|--|--|

|     |      |      |      |
|-----|------|------|------|
| 260 | 26.9 | 21.4 | 32.2 |
|-----|------|------|------|

|     |      |      |      |
|-----|------|------|------|
| 265 | 58.1 | 40.2 | 60.4 |
|-----|------|------|------|



## Report of Analysis

|                    |                        |                 |                      |
|--------------------|------------------------|-----------------|----------------------|
| Client:            | Tetra Tech NUS, Inc.   | Date Collected: | 11/21/24             |
| Project:           | CTO WE13               | Date Received:  | 11/22/24             |
| Client Sample ID:  | RW5-SP201-20241121     | SDG No.:        | P4959                |
| Lab Sample ID:     | P4959-02               | Matrix:         | Water                |
| Analytical Method: | SW8270SIM              | % 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 :      | SW3510C                |                 |                      |

|                   |           |                |                |               |
|-------------------|-----------|----------------|----------------|---------------|
| File ID/Qc Batch: | Dilution: | Prep Date      | Date Analyzed  | Prep Batch ID |
| BN035298.D        | 1         | 11/22/24 12:25 | 11/26/24 02:02 | PB165198      |

| CAS Number                | Parameter               | Conc. | Qualifier | MDL      | LOD  | LOQ / CRQL | Units    |
|---------------------------|-------------------------|-------|-----------|----------|------|------------|----------|
| <b>TARGETS</b>            |                         |       |           |          |      |            |          |
| 123-91-1                  | 1,4-Dioxane             | 0.20  | U         | 0.070    | 0.20 | 0.20       | ug/L     |
| <b>SURROGATES</b>         |                         |       |           |          |      |            |          |
| 7297-45-2                 | 2-Methylnaphthalene-d10 | 0.55  |           | 30 - 150 |      | 136%       | SPK: 0.4 |
| 93951-69-0                | Fluoranthene-d10        | 0.53  |           | 30 - 150 |      | 132%       | SPK: 0.4 |
| 4165-60-0                 | Nitrobenzene-d5         | 0.25  |           | 55 - 111 |      | 61%        | SPK: 0.4 |
| 321-60-8                  | 2-Fluorobiphenyl        | 0.086 | *         | 53 - 106 |      | 22%        | SPK: 0.4 |
| 1718-51-0                 | Terphenyl-d14           | 0.92  | *         | 58 - 132 |      | 229%       | SPK: 0.4 |
| <b>INTERNAL STANDARDS</b> |                         |       |           |          |      |            |          |
| 3855-82-1                 | 1,4-Dichlorobenzene-d4  | 3350  |           | 7.315    |      |            |          |
| 1146-65-2                 | Naphthalene-d8          | 8970  |           | 10.062   |      |            |          |
| 15067-26-2                | Acenaphthene-d10        | 7830  |           | 13.965   |      |            |          |
| 1517-22-2                 | Phenanthrene-d10        | 13000 |           | 16.734   |      |            |          |
| 1719-03-5                 | Chrysene-d12            | 823   |           | 21.008   |      |            |          |
| 1520-96-3                 | Perylene-d12            | 7690  |           | 23.075   |      |            |          |

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\BN112524\  
 Data File : BN035298.D  
 Acq On : 26 Nov 2024 02:02  
 Operator : RC/JU  
 Sample : P4959-02  
 Misc :  
 ALS Vial : 74 Sample Multiplier: 1

Instrument :  
 BNA\_N  
 ClientSampleId :  
 RW5-SP201-20241121

Manual Integrations  
**APPROVED**

Reviewed By :Yogesh Patel 11/27/2024  
 Supervised By :mohammad ahmed 11/27/2024

Quant Time: Nov 26 03:32:52 2024  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\8270-SIM-BN112524.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Tue Nov 26 02:36:08 2024  
 Response via : Initial Calibration

| Compound                    | R.T.   | QIon | Response | Conc  | Units | Dev(Min) |
|-----------------------------|--------|------|----------|-------|-------|----------|
| -----                       |        |      |          |       |       |          |
| Internal Standards          |        |      |          |       |       |          |
| 1) 1,4-Dichlorobenzene-d4   | 7.315  | 152  | 3353     | 0.400 | ng    | 0.00     |
| 7) Naphthalene-d8           | 10.062 | 136  | 8974     | 0.400 | ng    | 0.00     |
| 13) Acenaphthene-d10        | 13.965 | 164  | 7827     | 0.400 | ng    | #-0.01   |
| 19) Phenanthrene-d10        | 16.734 | 188  | 12956    | 0.400 | ng    | 0.00     |
| 29) Chrysene-d12            | 21.008 | 240  | 823      | 0.400 | ng    | # 0.00   |
| 35) Perylene-d12            | 23.075 | 264  | 7685     | 0.400 | ng    | 0.00     |
|                             |        |      |          |       |       |          |
| System Monitoring Compounds |        |      |          |       |       |          |
| 4) 2-Fluorophenol           | 4.968  | 112  | 1124     | 0.177 | ng    | 0.00     |
| 5) Phenol-d6                | 6.520  | 99   | 772      | 0.087 | ng    | 0.00     |
| 8) Nitrobenzene-d5          | 8.450  | 82   | 1783m    | 0.245 | ng    | 0.00     |
| 11) 2-Methylnaphthalene-d10 | 11.663 | 152  | 6842     | 0.545 | ng    | 0.00     |
| 14) 2,4,6-Tribromophenol    | 15.484 | 330  | 1237     | 0.310 | ng    | 0.00     |
| 15) 2-Fluorobiphenyl        | 12.608 | 172  | 373      | 0.086 | ng    | 0.00     |
| 27) Fluoranthene-d10        | 18.787 | 212  | 18292    | 0.528 | ng    | 0.00     |
| 31) Terphenyl-d14           | 19.419 | 244  | 13926    | 0.916 | ng    | 0.00     |

Target Compounds Qvalue

-----

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



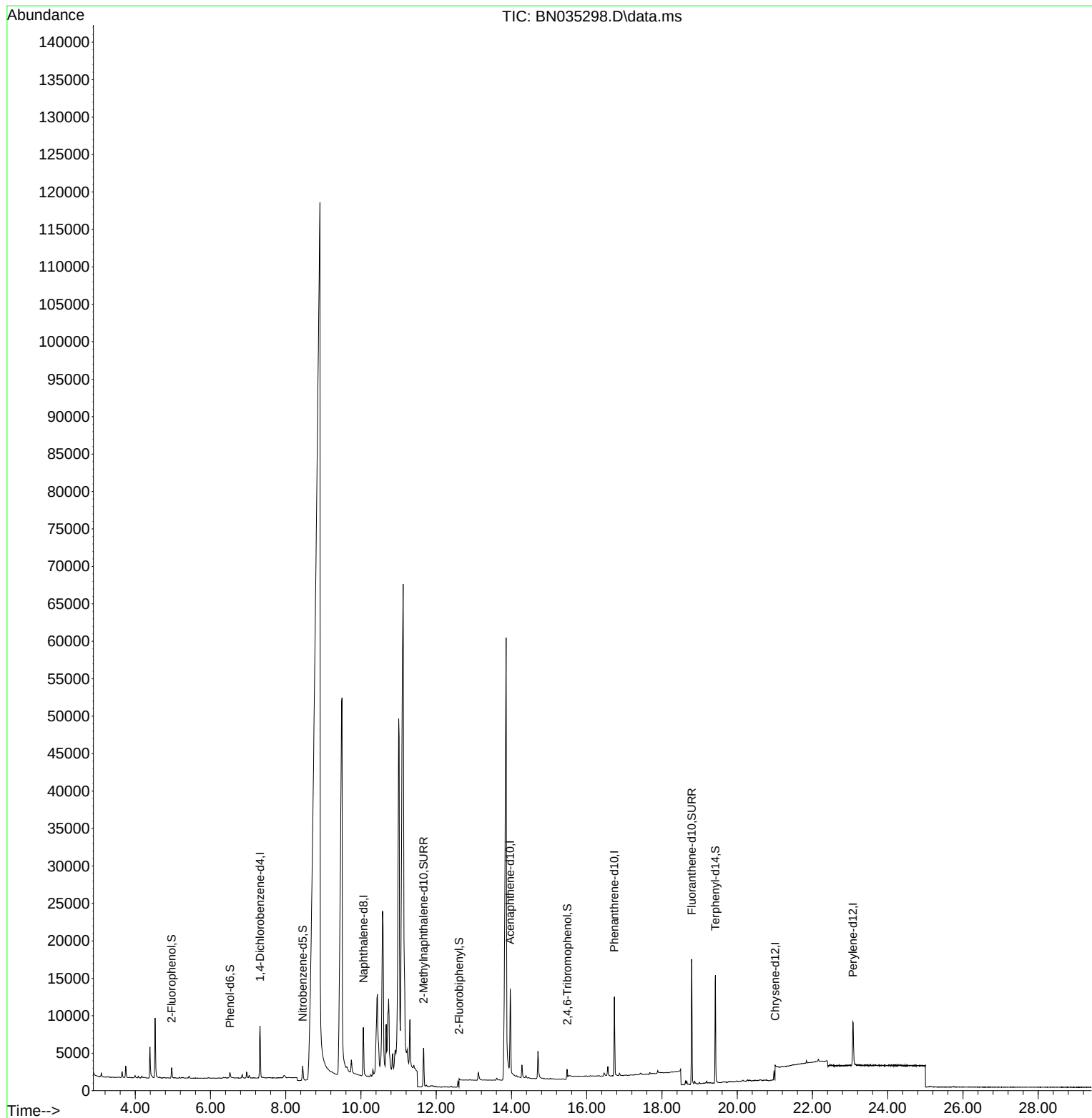
Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN112524\  
Data File : BN035298.D  
Acq On : 26 Nov 2024 02:02  
Operator : RC/JU  
Sample : P4959-02  
Misc :  
ALS Vial : 74 Sample Multiplier: 1

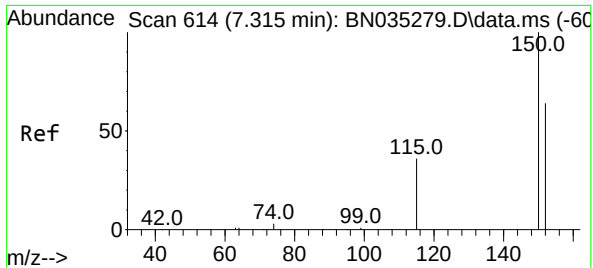
Instrument :  
BNA\_N  
ClientSampleId :  
RW5-SP201-20241121

Manual Integrations  
**APPROVED**

Reviewed By :Yogesh Patel 11/27/2024  
Supervised By :mohammad ahmed 11/27/2024

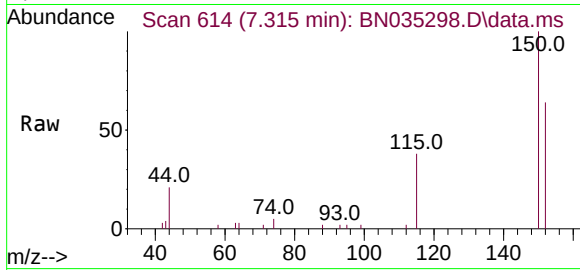
Quant Time: Nov 26 03:32:52 2024  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\8270-SIM-BN112524.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Tue Nov 26 02:36:08 2024  
Response via : Initial Calibration





#1  
1,4-Dichlorobenzene-d4  
Concen: 0.400 ng  
RT: 7.315 min Scan# 614  
Delta R.T. -0.000 min  
Lab File: BN035298.D  
Acq: 26 Nov 2024 02:02

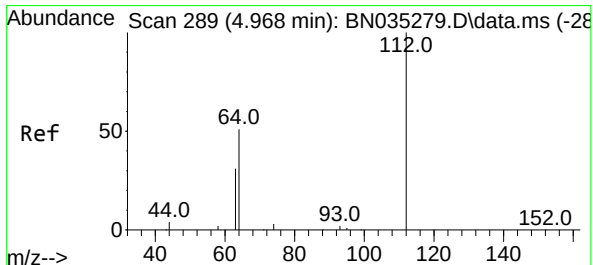
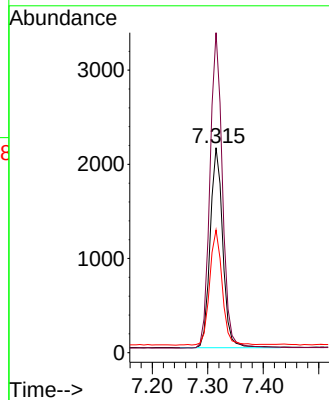
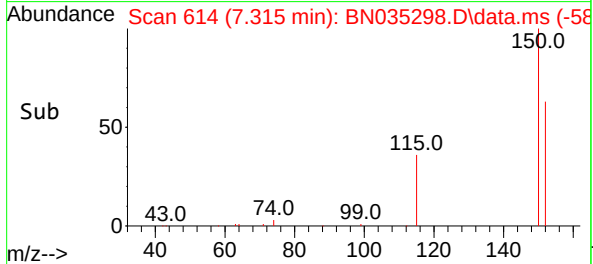
Instrument :  
BNA\_N  
ClientSampleId :  
RW5-SP201-20241121



Tgt Ion:152 Resp: 335  
Ion Ratio Lower Upper  
152 100  
150 156.1 124.5 186.7  
115 59.9 47.8 71.8

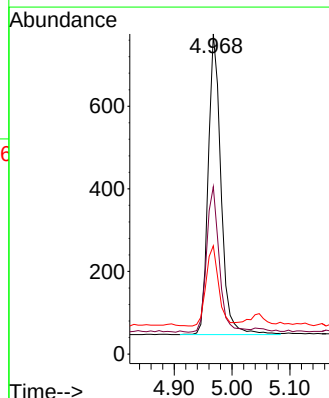
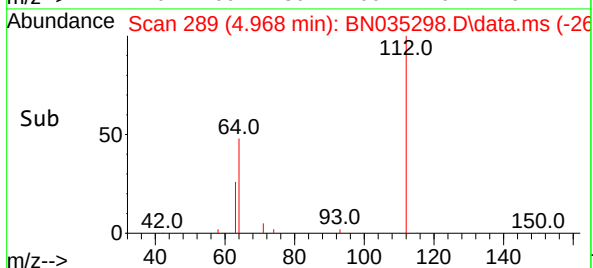
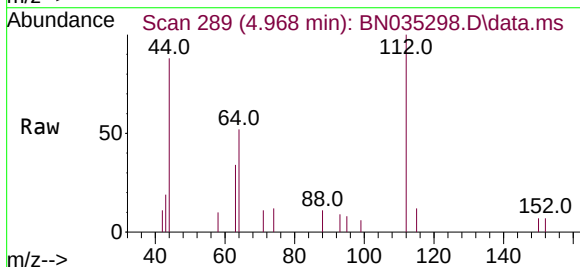
Manual Integrations  
**APPROVED**

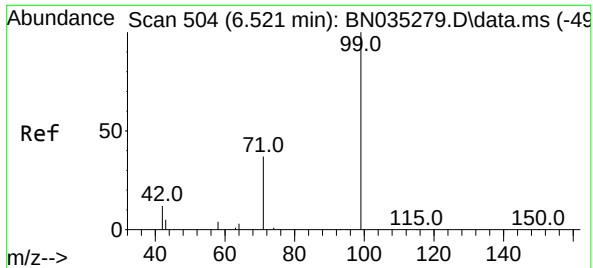
Reviewed By :Yogesh Patel 11/27/2024  
Supervised By :mohammad ahmed 11/27/2024



#4  
2-Fluorophenol  
Concen: 0.177 ng  
RT: 4.968 min Scan# 289  
Delta R.T. -0.000 min  
Lab File: BN035298.D  
Acq: 26 Nov 2024 02:02

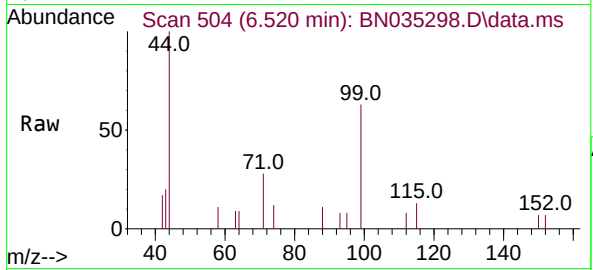
Tgt Ion:112 Resp: 1124  
Ion Ratio Lower Upper  
112 100  
64 48.0 40.4 60.6  
63 26.2 23.8 35.8





#5  
Phenol-d6  
Concen: 0.087 ng  
RT: 6.520 min Scan# 504  
Delta R.T. -0.000 min  
Lab File: BN035298.D  
Acq: 26 Nov 2024 02:02

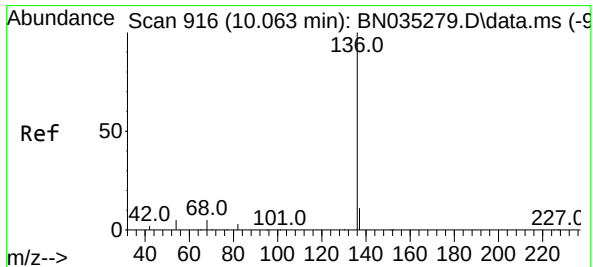
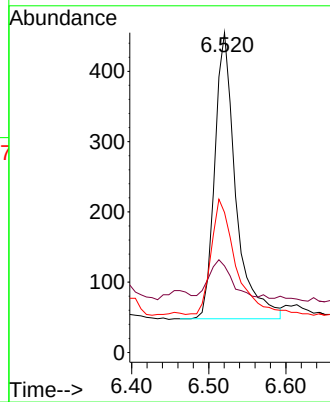
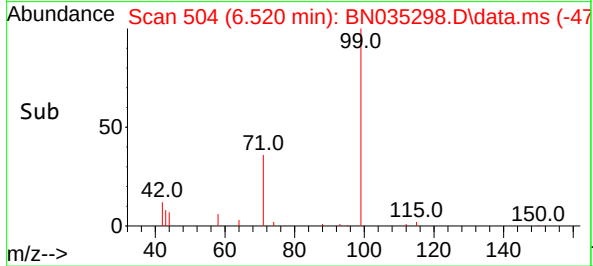
Instrument :  
BNA\_N  
ClientSampleId :  
RW5-SP201-20241121



Tgt Ion: 99 Resp: 772  
Ion Ratio Lower Upper  
99 100  
42 14.5 12.8 19.2  
71 48.4 31.4 47.2

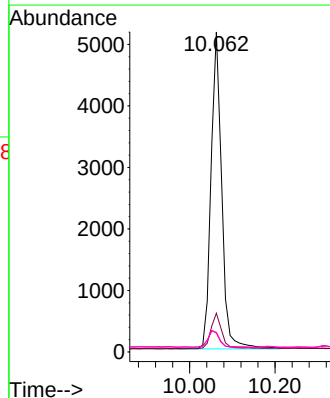
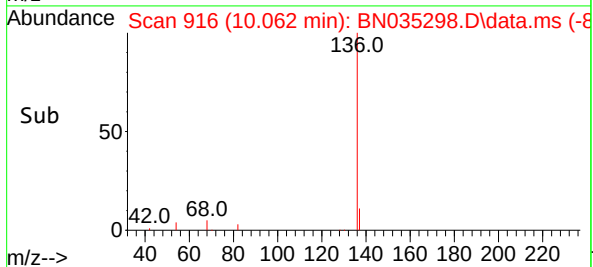
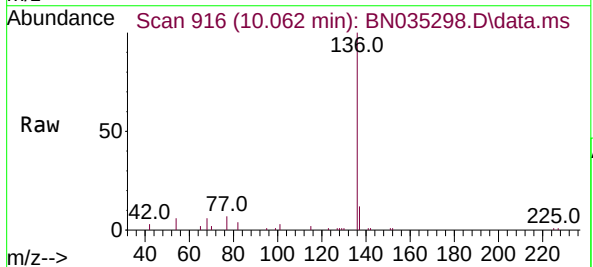
Manual Integrations  
**APPROVED**

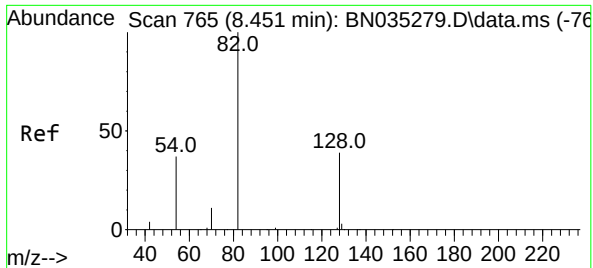
Reviewed By :Yogesh Patel 11/27/2024  
Supervised By :mohammad ahmed 11/27/2024



#7  
Naphthalene-d8  
Concen: 0.400 ng  
RT: 10.062 min Scan# 916  
Delta R.T. -0.000 min  
Lab File: BN035298.D  
Acq: 26 Nov 2024 02:02

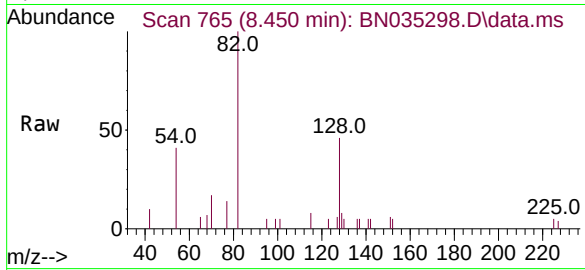
Tgt Ion:136 Resp: 8974  
Ion Ratio Lower Upper  
136 100  
137 12.1 9.7 14.5  
54 5.9 5.3 7.9  
68 6.2 5.9 8.9





#8  
Nitrobenzene-d5  
Concen: 0.245 ng m  
RT: 8.450 min Scan# 70  
Delta R.T. -0.000 min  
Lab File: BN035298.D  
Acq: 26 Nov 2024 02:02

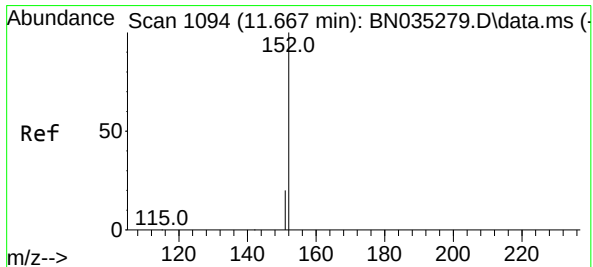
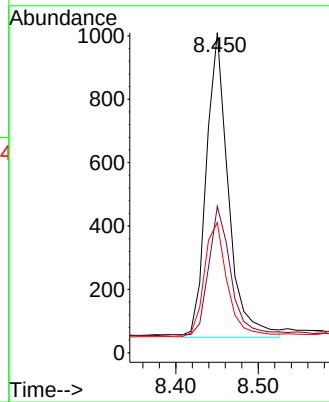
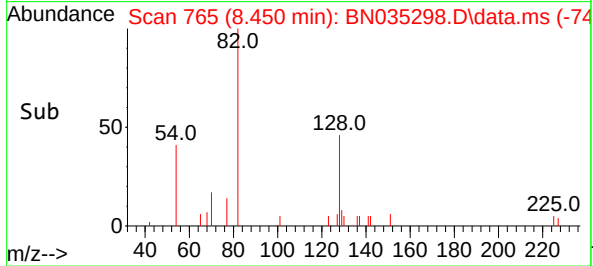
Instrument :  
BNA\_N  
ClientSampleId :  
RW5-SP201-20241121



Tgt Ion: 82 Resp: 178  
Ion Ratio Lower Upper  
82 100  
128 45.7 33.0 49.4  
54 40.7 33.3 49.9

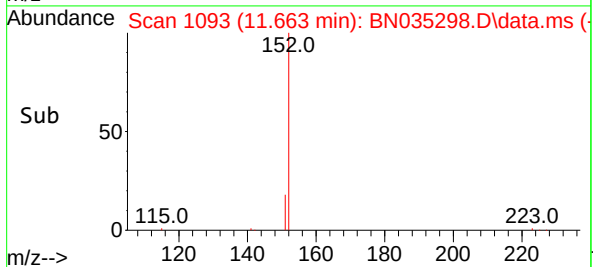
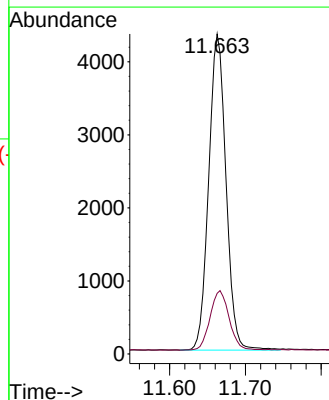
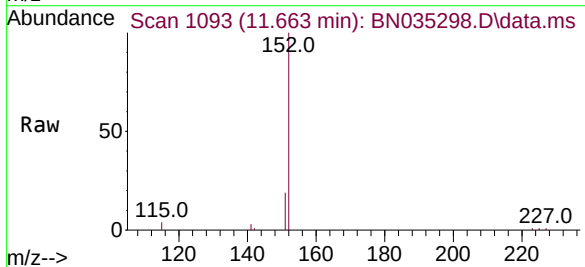
Manual Integrations  
APPROVED

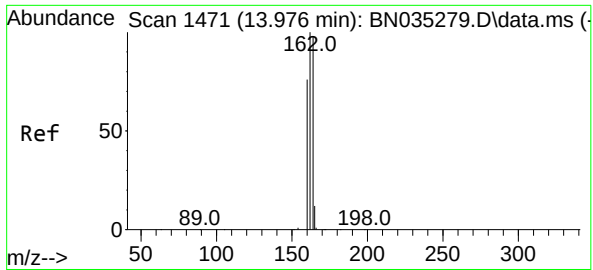
Reviewed By :Yogesh Patel 11/27/2024  
Supervised By :mohammad ahmed 11/27/2024



#11  
2-Methylnaphthalene-d10  
Concen: 0.545 ng  
RT: 11.663 min Scan# 1093  
Delta R.T. -0.004 min  
Lab File: BN035298.D  
Acq: 26 Nov 2024 02:02

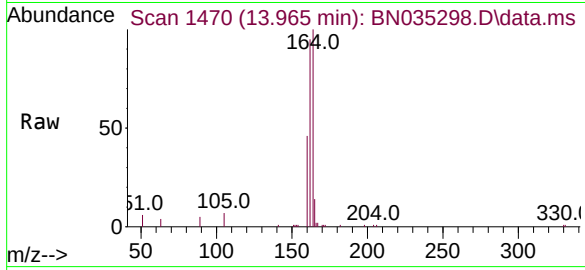
Tgt Ion:152 Resp: 6842  
Ion Ratio Lower Upper  
152 100  
151 20.8 17.2 25.8





#13  
Acenaphthene-d10  
Concen: 0.400 ng  
RT: 13.965 min Scan# 1471  
Delta R.T. -0.011 min  
Lab File: BN035298.D  
Acq: 26 Nov 2024 02:02

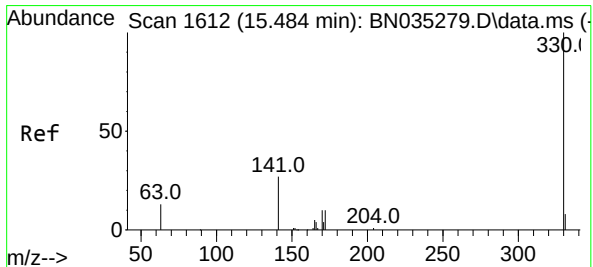
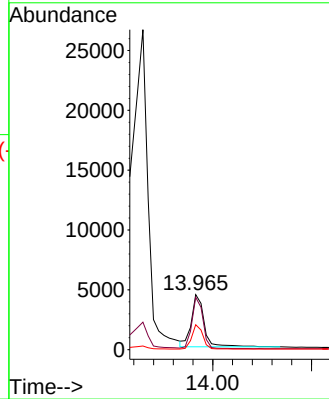
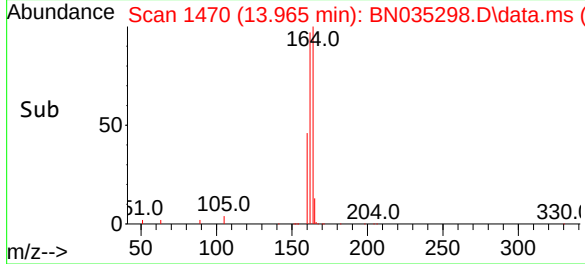
Instrument :  
BNA\_N  
ClientSampleId :  
RW5-SP201-20241121



Tgt Ion:164 Resp: 782  
Ion Ratio Lower Upper  
164 100  
162 95.1 82.0 123.0  
160 45.6 63.0 94.4

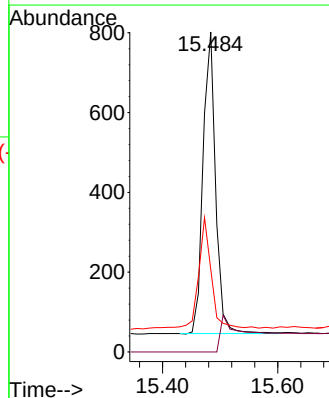
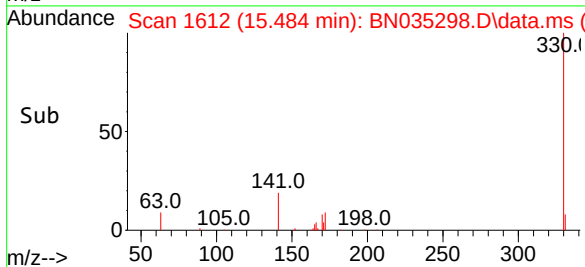
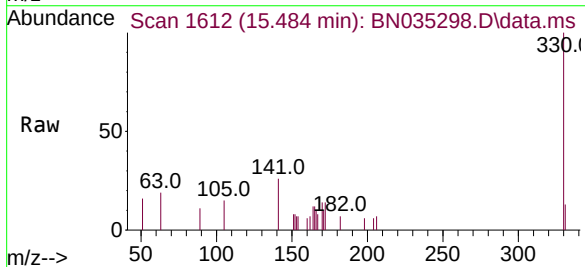
Manual Integrations  
APPROVED

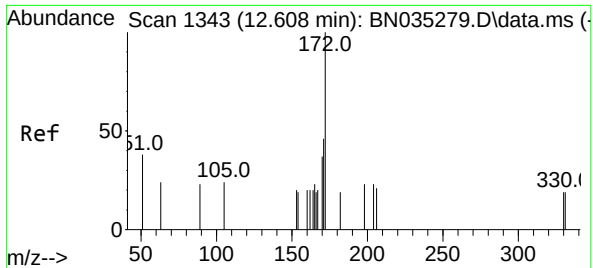
Reviewed By :Yogesh Patel 11/27/2024  
Supervised By :mohammad ahmed 11/27/2024



#14  
2,4,6-Tribromophenol  
Concen: 0.310 ng  
RT: 15.484 min Scan# 1612  
Delta R.T. -0.000 min  
Lab File: BN035298.D  
Acq: 26 Nov 2024 02:02

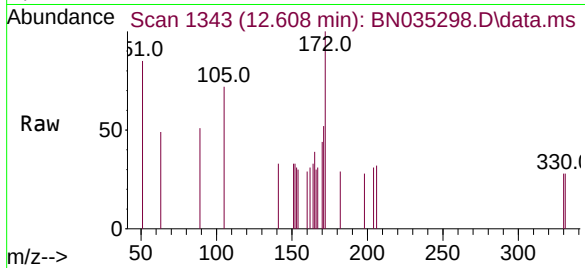
Tgt Ion:330 Resp: 1237  
Ion Ratio Lower Upper  
330 100  
332 0.0 0.0 0.0  
141 37.5 32.4 48.6





#15  
2-Fluorobiphenyl  
Concen: 0.086 ng  
RT: 12.608 min Scan# 1343  
Delta R.T. -0.000 min  
Lab File: BN035298.D  
Acq: 26 Nov 2024 02:02

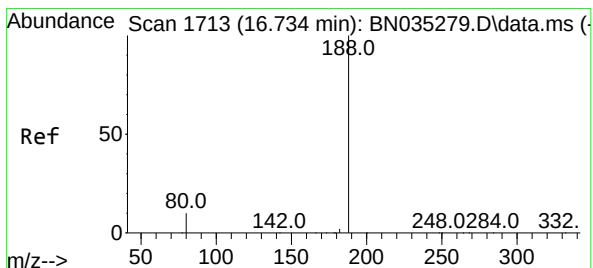
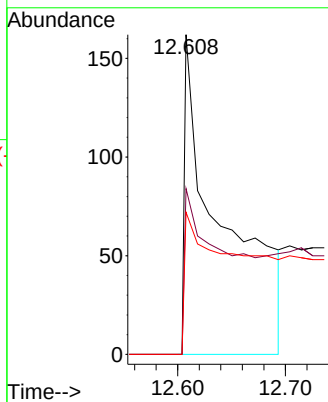
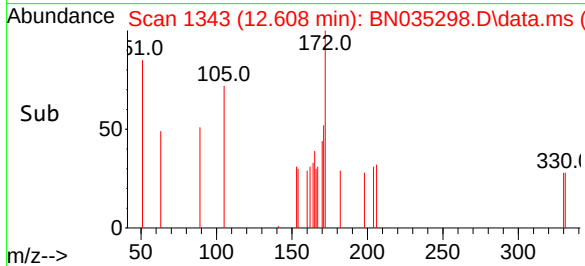
Instrument :  
BNA\_N  
ClientSampleId :  
RW5-SP201-20241121



Tgt Ion:172 Resp: 37  
Ion Ratio Lower Upper  
172 100  
171 51.9 36.6 55.0  
170 44.4 29.7 44.5

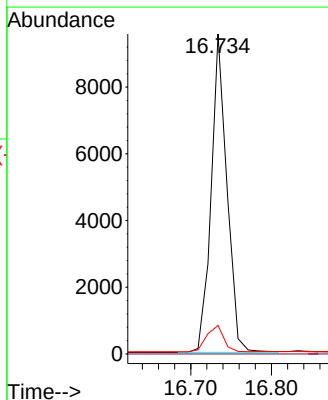
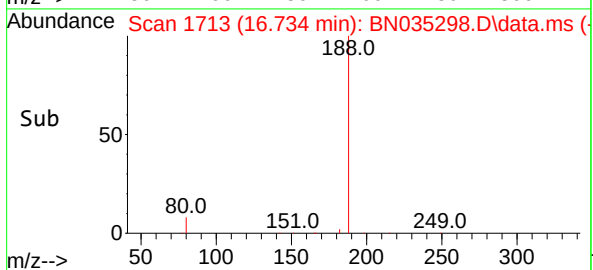
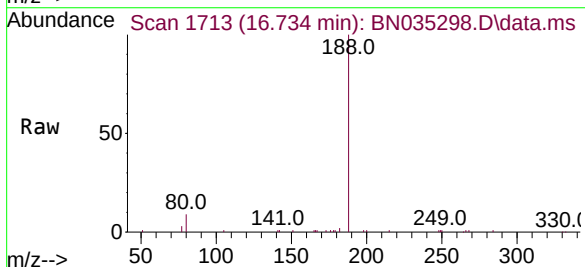
Manual Integrations  
APPROVED

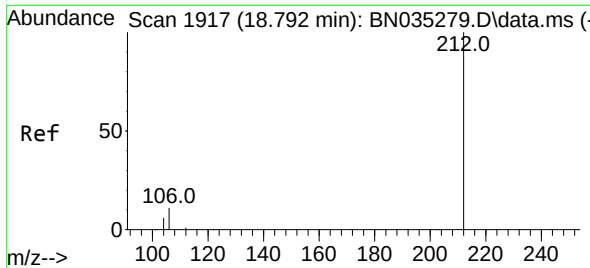
Reviewed By :Yogesh Patel 11/27/2024  
Supervised By :mohammad ahmed 11/27/2024



#19  
Phenanthrene-d10  
Concen: 0.400 ng  
RT: 16.734 min Scan# 1713  
Delta R.T. -0.000 min  
Lab File: BN035298.D  
Acq: 26 Nov 2024 02:02

Tgt Ion:188 Resp: 12956  
Ion Ratio Lower Upper  
188 100  
94 0.0 0.0 0.0  
80 8.9 8.9 13.3





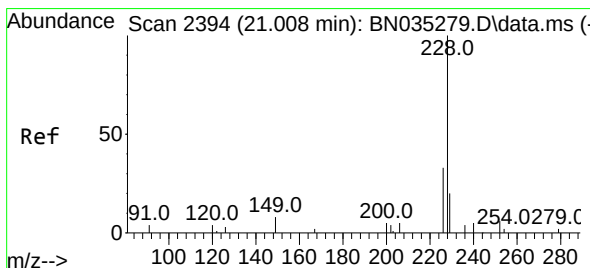
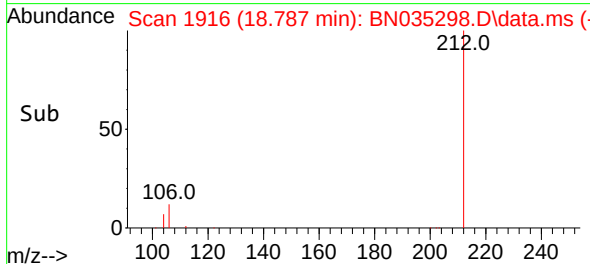
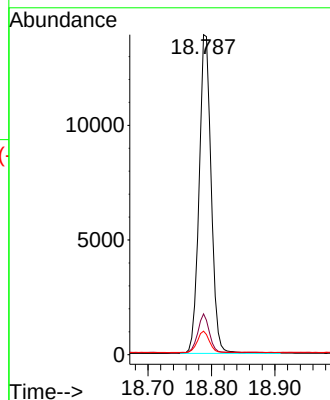
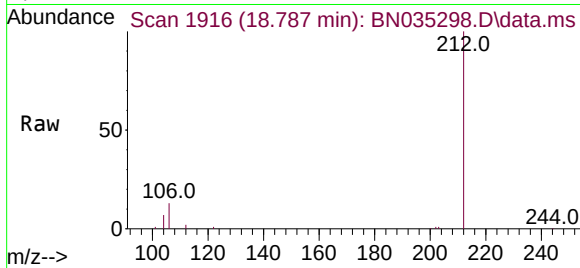
#27  
Fluoranthene-d10  
Concen: 0.528 ng  
RT: 18.787 min Scan# 1916  
Delta R.T. -0.005 min  
Lab File: BN035298.D  
Acq: 26 Nov 2024 02:02

Instrument :  
BNA\_N  
ClientSampleId :  
RW5-SP201-20241121

Tgt Ion:212 Resp: 1829  
Ion Ratio Lower Upper  
212 100  
106 11.6 9.8 14.8  
104 6.6 5.6 8.4

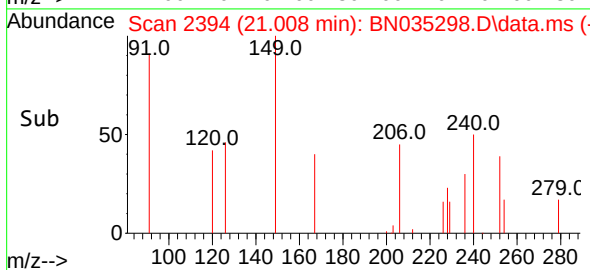
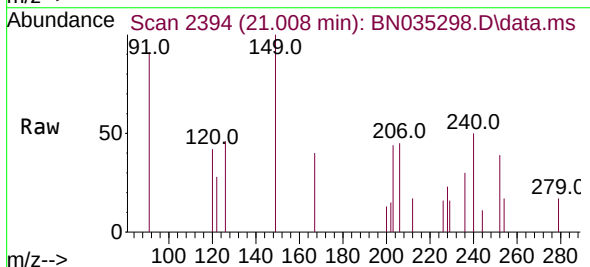
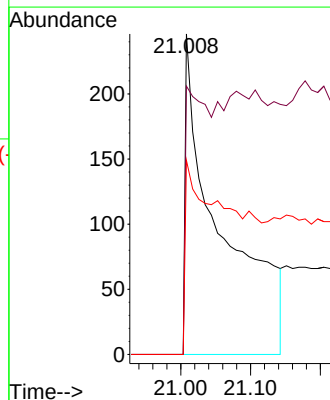
Manual Integrations  
APPROVED

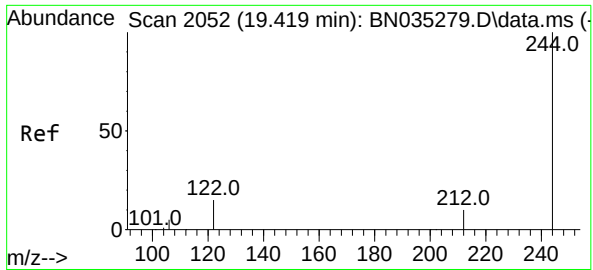
Reviewed By :Yogesh Patel 11/27/2024  
Supervised By :mohammad ahmed 11/27/2024



#29  
Chrysene-d12  
Concen: 0.400 ng  
RT: 21.008 min Scan# 2394  
Delta R.T. -0.000 min  
Lab File: BN035298.D  
Acq: 26 Nov 2024 02:02

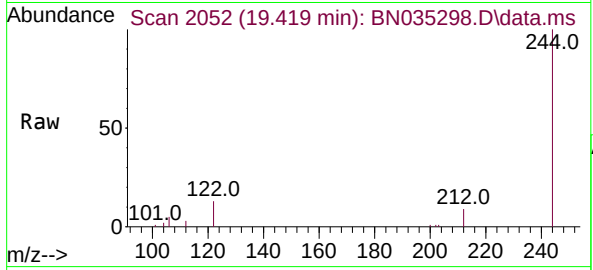
Tgt Ion:240 Resp: 823  
Ion Ratio Lower Upper  
240 100  
120 83.7 54.9 82.3#  
236 60.6 54.0 81.0





#31  
Terphenyl-d14  
Concen: 0.916 ng  
RT: 19.419 min Scan# 2052  
Delta R.T. 0.000 min  
Lab File: BN035298.D  
Acq: 26 Nov 2024 02:02

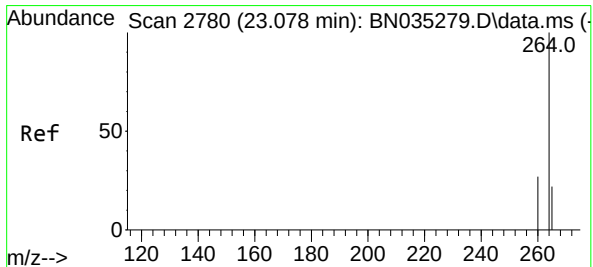
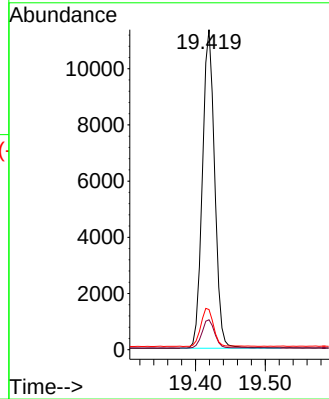
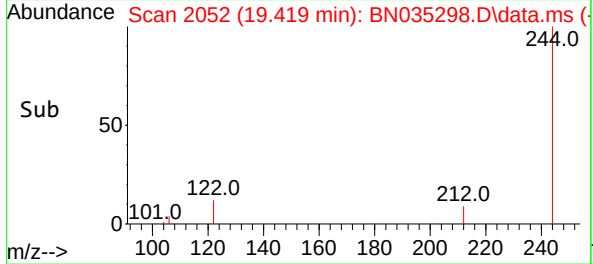
Instrument :  
BNA\_N  
ClientSampleId :  
RW5-SP201-20241121



Tgt Ion:244 Resp: 13920  
Ion Ratio Lower Upper  
244 100  
212 9.4 9.4 14.0  
122 12.6 13.0 19.4

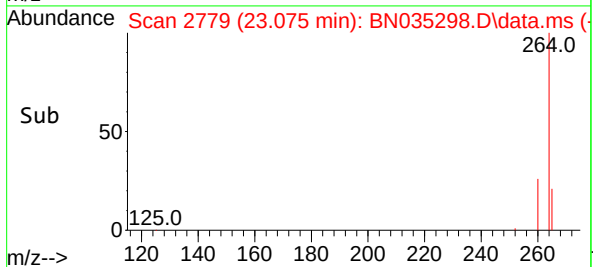
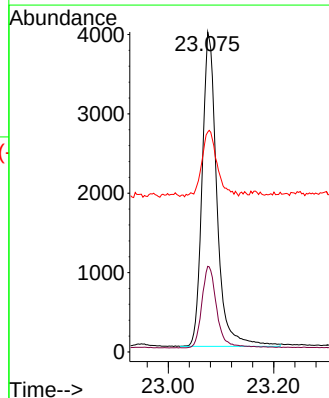
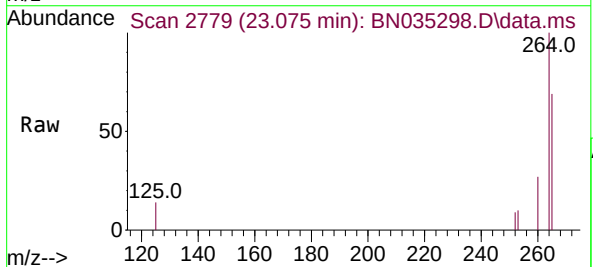
Manual Integrations  
APPROVED

Reviewed By :Yogesh Patel 11/27/2024  
Supervised By :mohammad ahmed 11/27/2024



#35  
Perylene-d12  
Concen: 0.400 ng  
RT: 23.075 min Scan# 2779  
Delta R.T. -0.003 min  
Lab File: BN035298.D  
Acq: 26 Nov 2024 02:02

Tgt Ion:264 Resp: 7685  
Ion Ratio Lower Upper  
264 100  
260 26.8 22.3 33.5  
265 68.7 68.6 103.0





## Report of Analysis

|                    |                      |                  |                 |                |
|--------------------|----------------------|------------------|-----------------|----------------|
| Client:            | Tetra Tech NUS, Inc. |                  | Date Collected: | 11/21/24       |
| Project:           | CTO WE13             |                  | Date Received:  | 11/22/24       |
| Client Sample ID:  | RW5-SP303-20241121   |                  | SDG No.:        | P4959          |
| Lab Sample ID:     | P4959-03             |                  | Matrix:         | Water          |
| Analytical Method: | SW8270SIM            |                  | % 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 :      | SW3510C              |                  |                 |                |

|                   |           |                |                |               |
|-------------------|-----------|----------------|----------------|---------------|
| File ID/Qc Batch: | Dilution: | Prep Date      | Date Analyzed  | Prep Batch ID |
| BN035299.D        | 1         | 11/22/24 12:25 | 11/26/24 02:38 | PB165198      |

| CAS Number                | Parameter               | Conc. | Qualifier | MDL      | LOD  | LOQ / CRQL | Units    |
|---------------------------|-------------------------|-------|-----------|----------|------|------------|----------|
| <b>TARGETS</b>            |                         |       |           |          |      |            |          |
| 123-91-1                  | 1,4-Dioxane             | 0.20  | U         | 0.070    | 0.20 | 0.20       | ug/L     |
| <b>SURROGATES</b>         |                         |       |           |          |      |            |          |
| 7297-45-2                 | 2-Methylnaphthalene-d10 | 0.45  |           | 30 - 150 |      | 113%       | SPK: 0.4 |
| 93951-69-0                | Fluoranthene-d10        | 0.41  |           | 30 - 150 |      | 102%       | SPK: 0.4 |
| 4165-60-0                 | Nitrobenzene-d5         | 0.23  |           | 55 - 111 |      | 57%        | SPK: 0.4 |
| 321-60-8                  | 2-Fluorobiphenyl        | 0.24  |           | 53 - 106 |      | 60%        | SPK: 0.4 |
| 1718-51-0                 | Terphenyl-d14           | 0.73  | *         | 58 - 132 |      | 182%       | SPK: 0.4 |
| <b>INTERNAL STANDARDS</b> |                         |       |           |          |      |            |          |
| 3855-82-1                 | 1,4-Dichlorobenzene-d4  | 4030  |           | 7.315    |      |            |          |
| 1146-65-2                 | Naphthalene-d8          | 10600 |           | 10.063   |      |            |          |
| 15067-26-2                | Acenaphthene-d10        | 6680  |           | 13.966   |      |            |          |
| 1517-22-2                 | Phenanthrene-d10        | 14000 |           | 16.734   |      |            |          |
| 1719-03-5                 | Chrysene-d12            | 880   |           | 21.008   |      |            |          |
| 1520-96-3                 | Perylene-d12            | 7740  |           | 23.078   |      |            |          |

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\BN112524\  
Data File : BN035299.D  
Acq On : 26 Nov 2024 02:38  
Operator : RC/JU  
Sample : P4959-03  
Misc :  
ALS Vial : 75 Sample Multiplier: 1

Instrument :  
BNA\_N  
ClientSampleId :  
RW5-SP303-20241121

Manual Integrations  
APPROVED

Reviewed By :Yogesh Patel 11/27/2024  
Supervised By :mohammad ahmed 11/27/2024

Quant Time: Nov 26 03:33:04 2024  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\8270-SIM-BN112524.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Tue Nov 26 02:36:08 2024  
Response via : Initial Calibration

| Compound                    | R.T.   | QIon | Response | Conc  | Units | Dev(Min) |
|-----------------------------|--------|------|----------|-------|-------|----------|
| Internal Standards          |        |      |          |       |       |          |
| 1) 1,4-Dichlorobenzene-d4   | 7.315  | 152  | 4025     | 0.400 | ng    | 0.00     |
| 7) Naphthalene-d8           | 10.063 | 136  | 10571    | 0.400 | ng    | # 0.00   |
| 13) Acenaphthene-d10        | 13.966 | 164  | 6682     | 0.400 | ng    | #-0.01   |
| 19) Phenanthrene-d10        | 16.734 | 188  | 14026    | 0.400 | ng    | 0.00     |
| 29) Chrysene-d12            | 21.008 | 240  | 880      | 0.400 | ng    | # 0.00   |
| 35) Perylene-d12            | 23.078 | 264  | 7740     | 0.400 | ng    | # 0.00   |
| System Monitoring Compounds |        |      |          |       |       |          |
| 4) 2-Fluorophenol           | 4.968  | 112  | 1297     | 0.171 | ng    | 0.00     |
| 5) Phenol-d6                | 6.520  | 99   | 900      | 0.085 | ng    | 0.00     |
| 8) Nitrobenzene-d5          | 8.450  | 82   | 1970m    | 0.230 | ng    | 0.00     |
| 11) 2-Methylnaphthalene-d10 | 11.663 | 152  | 6676     | 0.451 | ng    | 0.00     |
| 14) 2,4,6-Tribromophenol    | 15.484 | 330  | 972      | 0.285 | ng    | 0.00     |
| 15) 2-Fluorobiphenyl        | 12.608 | 172  | 890      | 0.241 | ng    | 0.00     |
| 27) Fluoranthene-d10        | 18.788 | 212  | 15405    | 0.410 | ng    | 0.00     |
| 31) Terphenyl-d14           | 19.419 | 244  | 11853    | 0.729 | ng    | 0.00     |

Target Compounds Qvalue

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

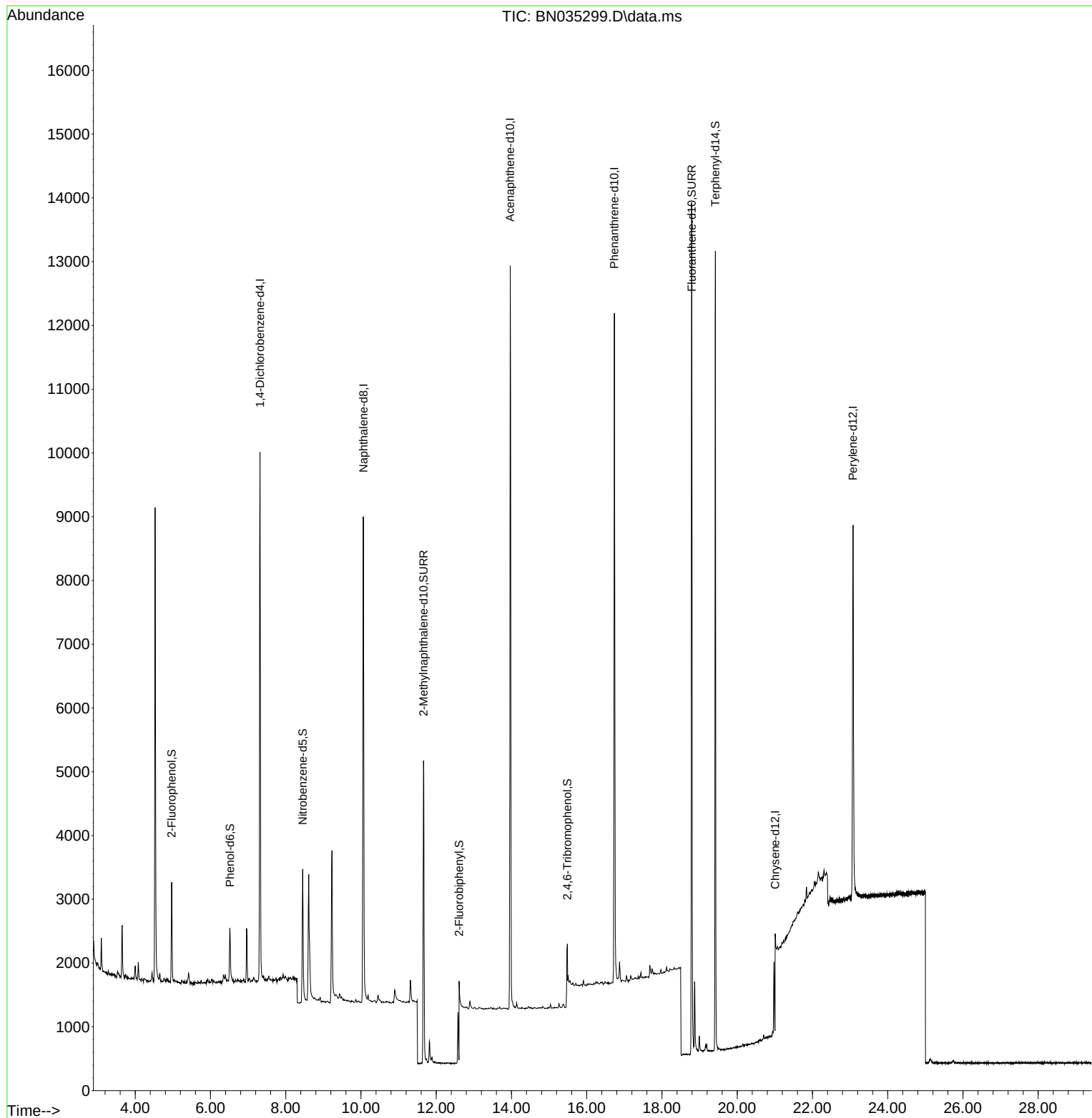
Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN112524\  
Data File : BN035299.D  
Acq On : 26 Nov 2024 02:38  
Operator : RC/JU  
Sample : P4959-03  
Misc :  
ALS Vial : 75 Sample Multiplier: 1

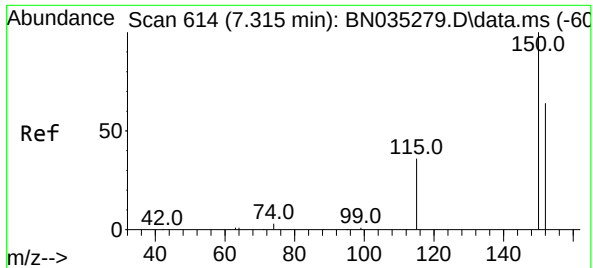
Instrument :  
BNA\_N  
ClientSampleId :  
RW5-SP303-20241121

Manual Integrations  
**APPROVED**

Reviewed By :Yogesh Patel 11/27/2024  
Supervised By :mohammad ahmed 11/27/2024

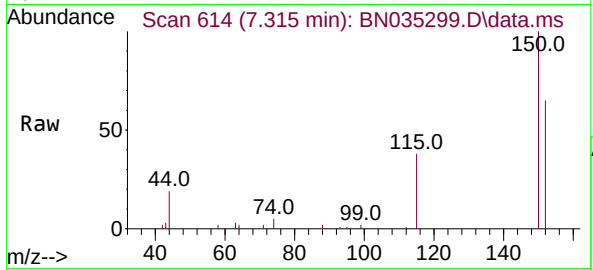
Quant Time: Nov 26 03:33:04 2024  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\8270-SIM-BN112524.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Tue Nov 26 02:36:08 2024  
Response via : Initial Calibration





#1  
1,4-Dichlorobenzene-d4  
Concen: 0.400 ng  
RT: 7.315 min Scan# 614  
Delta R.T. -0.000 min  
Lab File: BN035299.D  
Acq: 26 Nov 2024 02:38

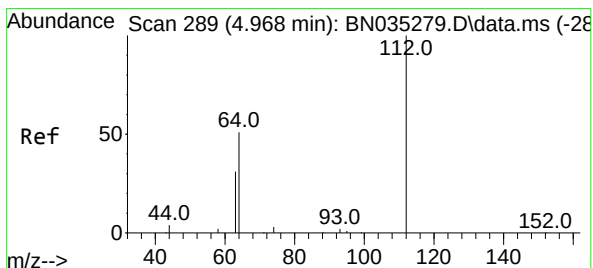
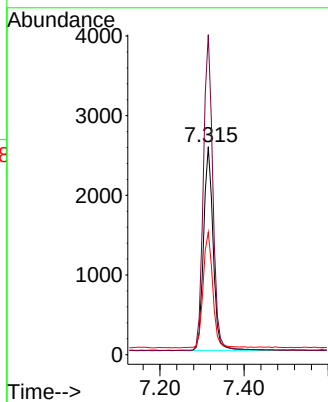
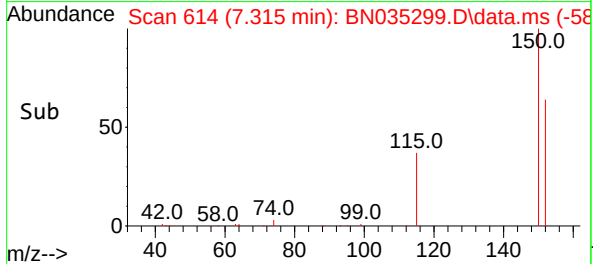
Instrument :  
BNA\_N  
ClientSampleId :  
RW5-SP303-20241121



Tgt Ion:152 Resp: 4029  
Ion Ratio Lower Upper  
152 100  
150 153.8 124.5 186.7  
115 58.9 47.8 71.8

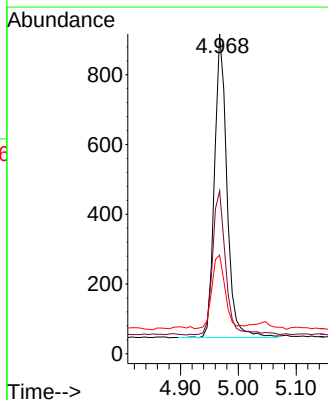
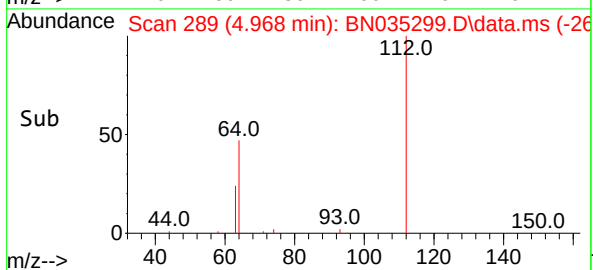
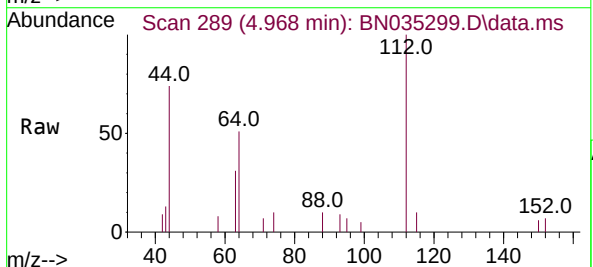
Manual Integrations  
APPROVED

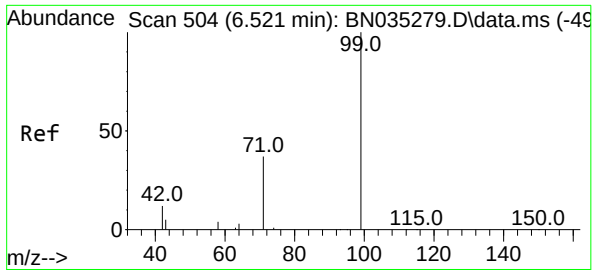
Reviewed By :Yogesh Patel 11/27/2024  
Supervised By :mohammad ahmed 11/27/2024



#4  
2-Fluorophenol  
Concen: 0.171 ng  
RT: 4.968 min Scan# 289  
Delta R.T. -0.000 min  
Lab File: BN035299.D  
Acq: 26 Nov 2024 02:38

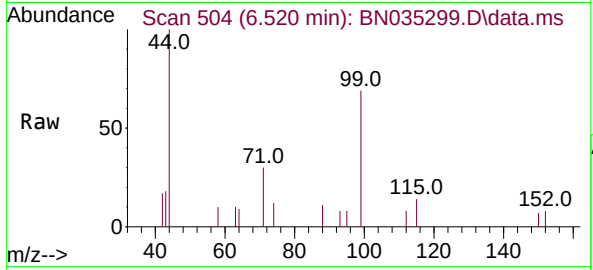
Tgt Ion:112 Resp: 1297  
Ion Ratio Lower Upper  
112 100  
64 50.6 40.4 60.6  
63 26.8 23.8 35.8





#5  
Phenol-d6  
Concen: 0.085 ng  
RT: 6.520 min Scan# 504  
Delta R.T. -0.000 min  
Lab File: BN035299.D  
Acq: 26 Nov 2024 02:38

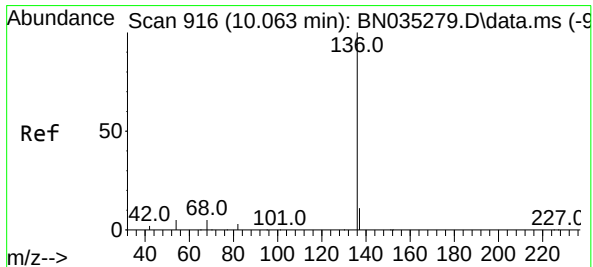
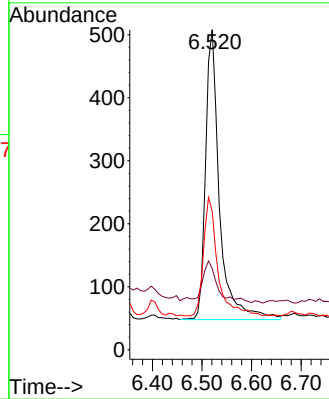
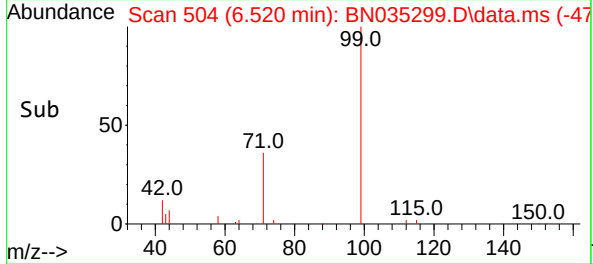
Instrument :  
BNA\_N  
ClientSampleId :  
RW5-SP303-20241121



Tgt Ion: 99 Resp: 900  
Ion Ratio Lower Upper  
99 100  
42 14.9 12.8 19.2  
71 41.7 31.4 47.2

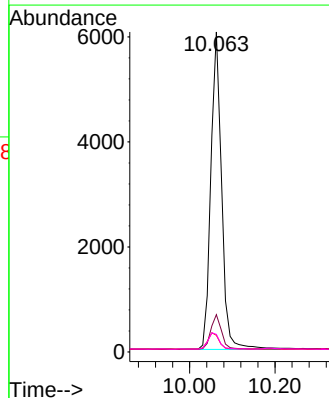
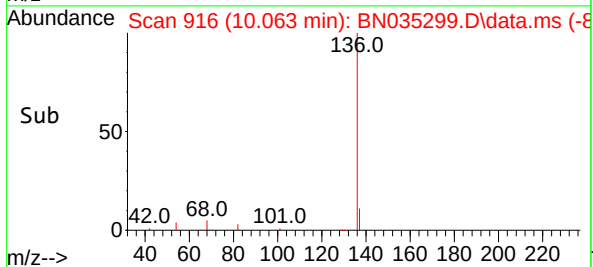
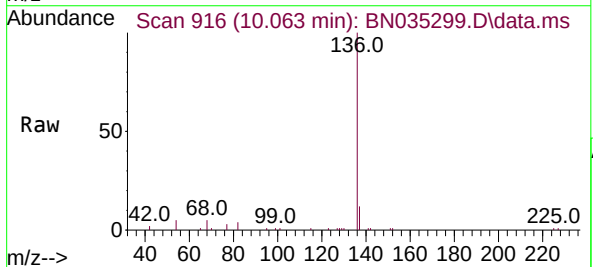
Manual Integrations  
APPROVED

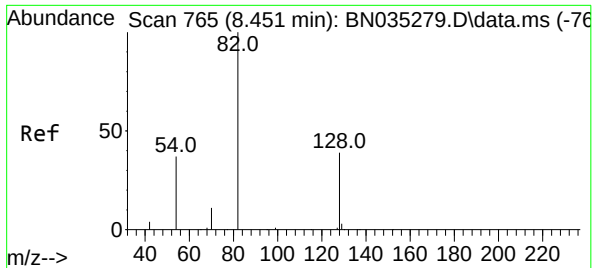
Reviewed By :Yogesh Patel 11/27/2024  
Supervised By :mohammad ahmed 11/27/2024



#7  
Naphthalene-d8  
Concen: 0.400 ng  
RT: 10.063 min Scan# 916  
Delta R.T. -0.000 min  
Lab File: BN035299.D  
Acq: 26 Nov 2024 02:38

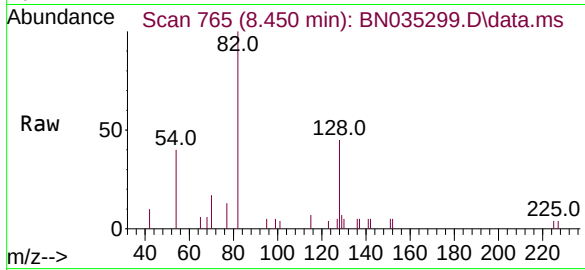
Tgt Ion:136 Resp: 10571  
Ion Ratio Lower Upper  
136 100  
137 11.7 9.7 14.5  
54 5.2 5.3 7.9#  
68 5.5 5.9 8.9#





#8  
Nitrobenzene-d5  
Concen: 0.230 ng m  
RT: 8.450 min Scan# 765  
Delta R.T. -0.000 min  
Lab File: BN035299.D  
Acq: 26 Nov 2024 02:38

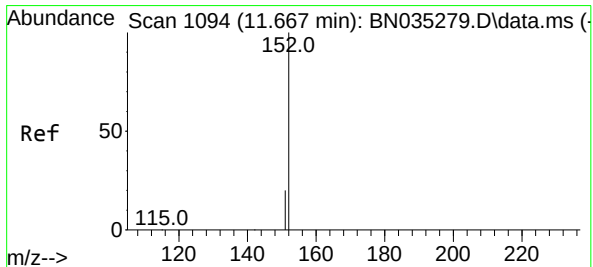
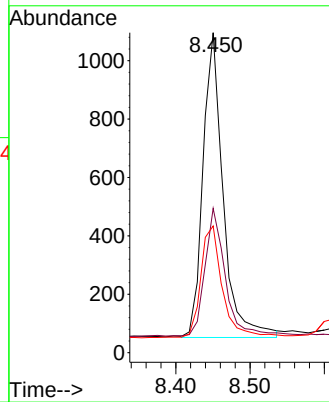
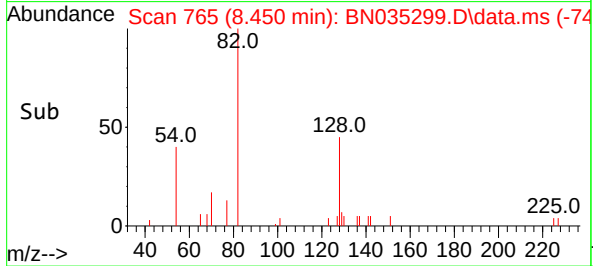
Instrument :  
BNA\_N  
ClientSampleId :  
RW5-SP303-20241121



Tgt Ion: 82 Resp: 1970  
Ion Ratio Lower Upper  
82 100  
128 45.1 33.0 49.4  
54 39.6 33.3 49.9

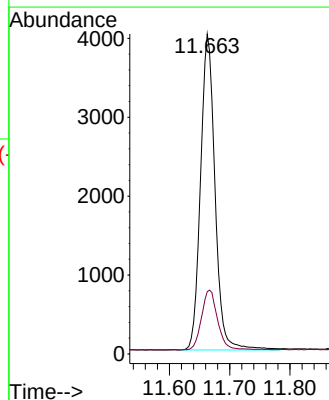
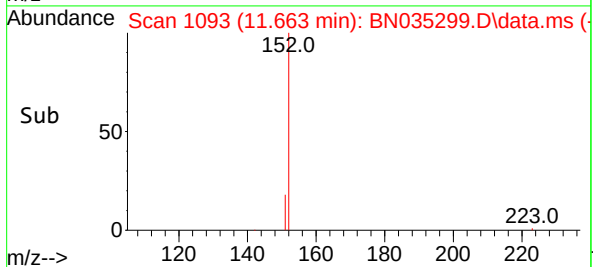
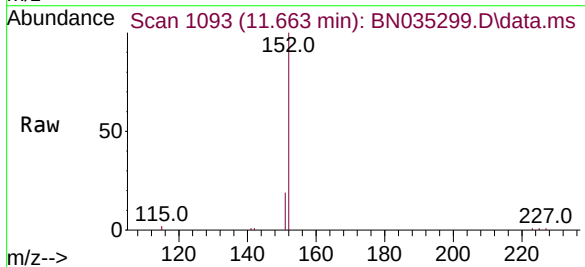
Manual Integrations  
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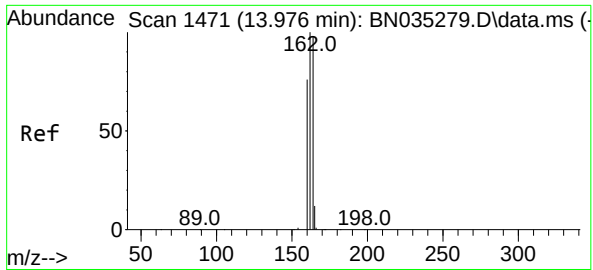
Reviewed By :Yogesh Patel 11/27/2024  
Supervised By :mohammad ahmed 11/27/2024



#11  
2-Methylnaphthalene-d10  
Concen: 0.451 ng  
RT: 11.663 min Scan# 1093  
Delta R.T. -0.004 min  
Lab File: BN035299.D  
Acq: 26 Nov 2024 02:38

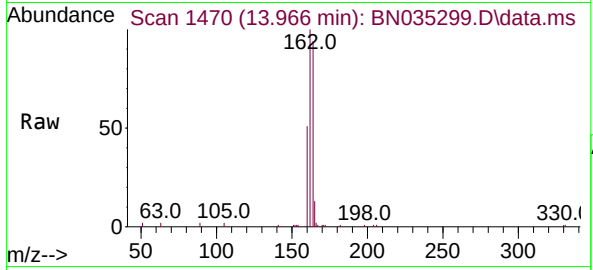
Tgt Ion:152 Resp: 6676  
Ion Ratio Lower Upper  
152 100  
151 21.0 17.2 25.8





#13  
Acenaphthene-d10  
Concen: 0.400 ng  
RT: 13.966 min Scan# 1471  
Delta R.T. -0.011 min  
Lab File: BN035299.D  
Acq: 26 Nov 2024 02:38

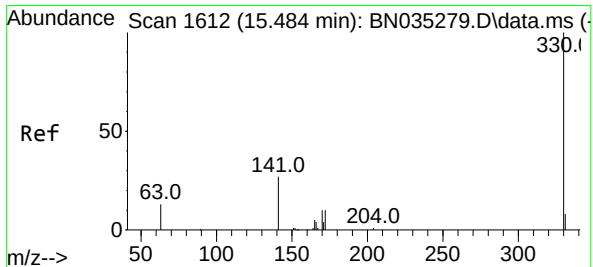
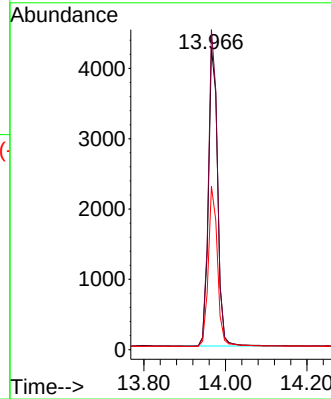
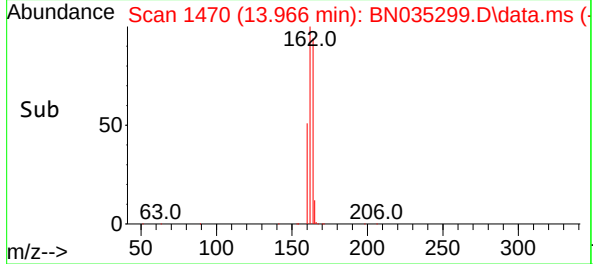
Instrument :  
BNA\_N  
ClientSampleId :  
RW5-SP303-20241121



Tgt Ion:164 Resp: 668  
Ion Ratio Lower Upper  
164 100  
162 106.0 82.0 123.0  
160 54.1 63.0 94.4

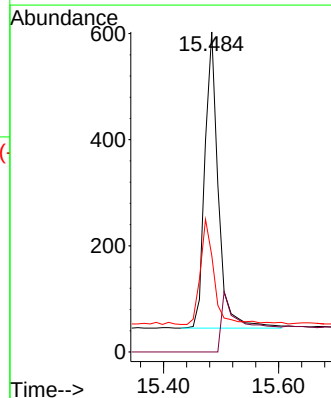
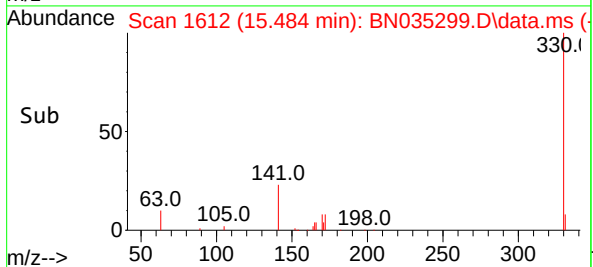
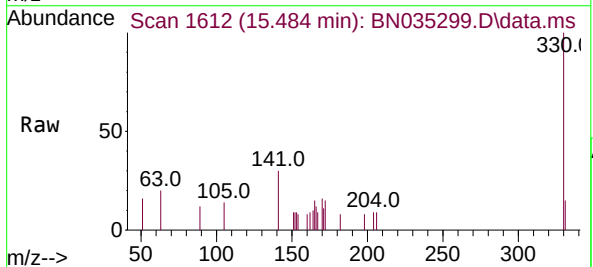
Manual Integrations  
APPROVED

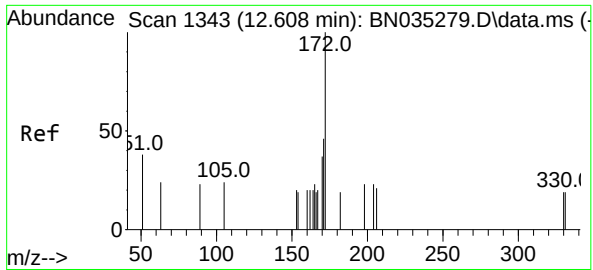
Reviewed By :Yogesh Patel 11/27/2024  
Supervised By :mohammad ahmed 11/27/2024



#14  
2,4,6-Tribromophenol  
Concen: 0.285 ng  
RT: 15.484 min Scan# 1612  
Delta R.T. -0.000 min  
Lab File: BN035299.D  
Acq: 26 Nov 2024 02:38

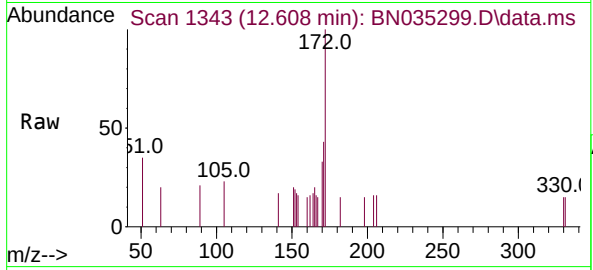
Tgt Ion:330 Resp: 972  
Ion Ratio Lower Upper  
330 100  
332 0.0 0.0 0.0  
141 36.7 32.4 48.6





#15  
2-Fluorobiphenyl  
Concen: 0.241 ng  
RT: 12.608 min Scan# 1343  
Delta R.T. -0.000 min  
Lab File: BN035299.D  
Acq: 26 Nov 2024 02:38

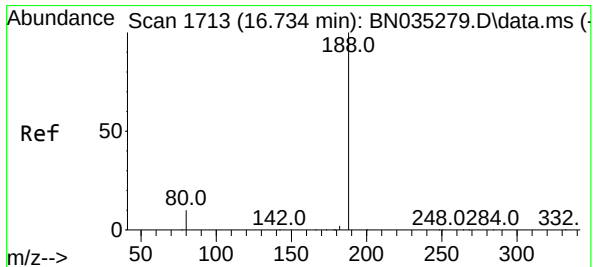
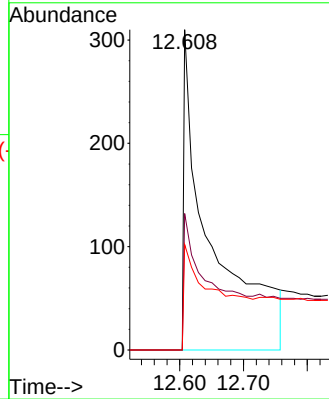
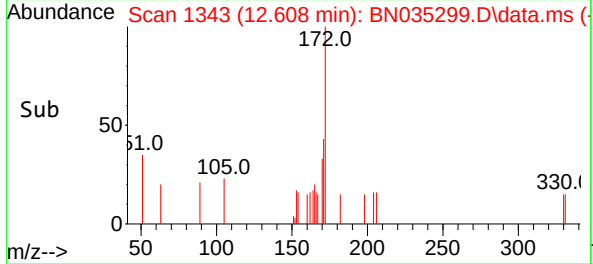
Instrument :  
BNA\_N  
ClientSampleId :  
RW5-SP303-20241121



Tgt Ion:172 Resp: 890  
Ion Ratio Lower Upper  
172 100  
171 42.6 36.6 55.0  
170 32.9 29.7 44.5

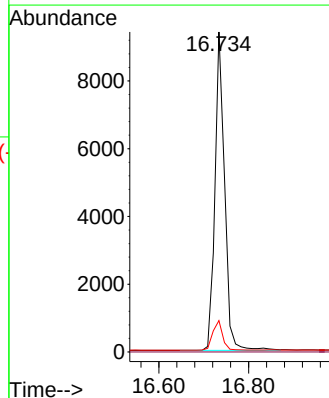
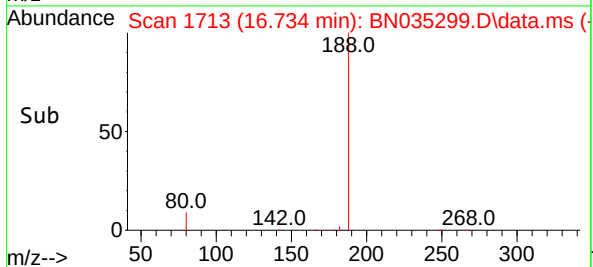
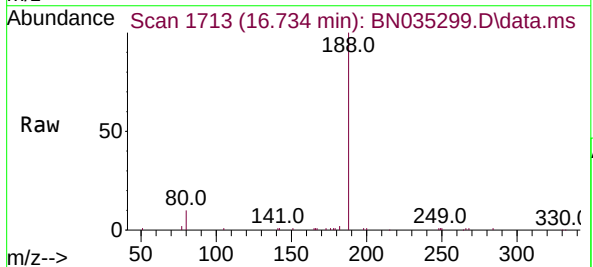
Manual Integrations  
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Reviewed By :Yogesh Patel 11/27/2024  
Supervised By :mohammad ahmed 11/27/2024

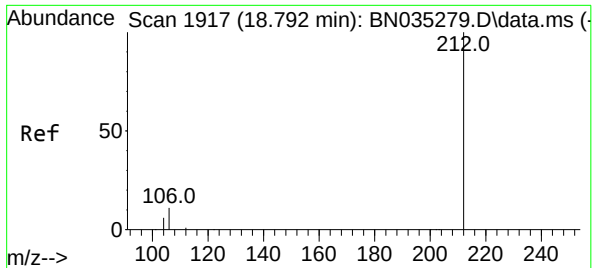


#19  
Phenanthrene-d10  
Concen: 0.400 ng  
RT: 16.734 min Scan# 1713  
Delta R.T. -0.000 min  
Lab File: BN035299.D  
Acq: 26 Nov 2024 02:38

Tgt Ion:188 Resp: 14026  
Ion Ratio Lower Upper  
188 100  
94 0.0 0.0 0.0  
80 9.8 8.9 13.3







#27

Fluoranthene-d10

Concen: 0.410 ng

RT: 18.788 min Scan# 1916

Delta R.T. -0.005 min

Lab File: BN035299.D

Acq: 26 Nov 2024 02:38

Instrument :

BNA\_N

ClientSampleId :

RW5-SP303-20241121

Tgt Ion:212 Resp: 1540

Ion Ratio Lower Upper

212 100

106 11.7 9.8 14.8

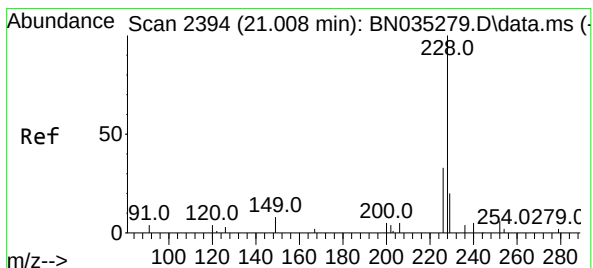
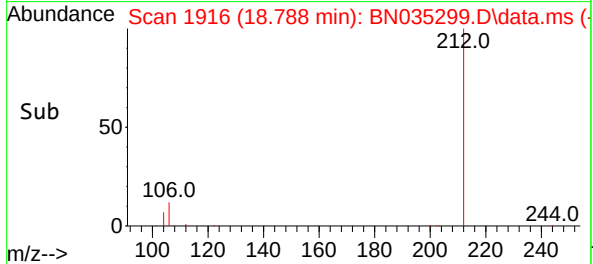
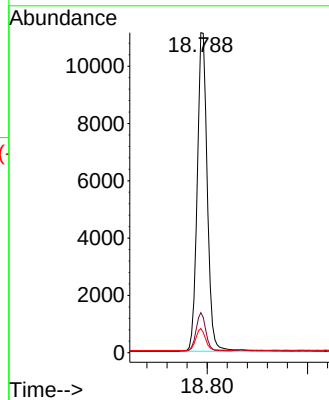
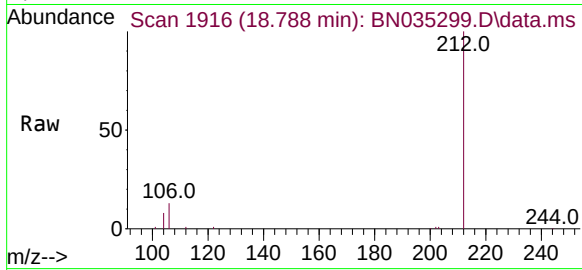
104 6.8 5.6 8.4

Manual Integrations

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Reviewed By :Yogesh Patel 11/27/2024

Supervised By :mohammad ahmed 11/27/2024



#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.008 min Scan# 2394

Delta R.T. -0.000 min

Lab File: BN035299.D

Acq: 26 Nov 2024 02:38

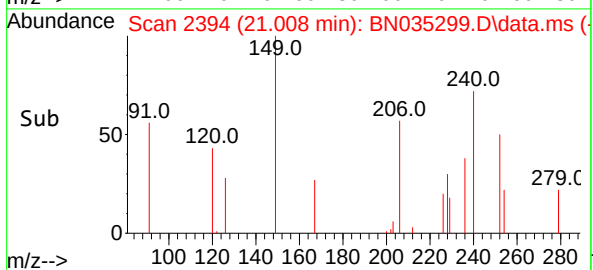
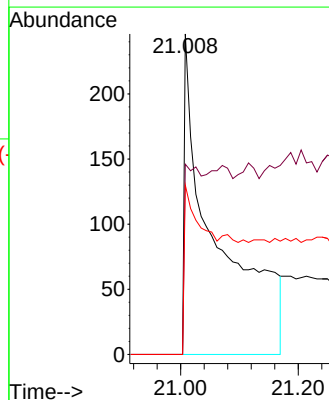
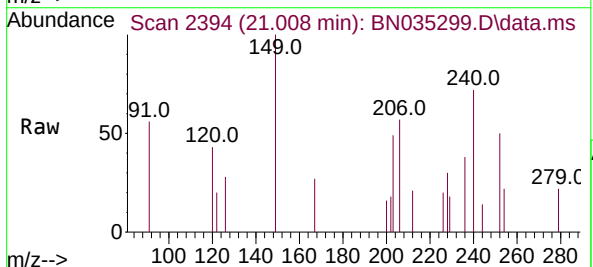
Tgt Ion:240 Resp: 880

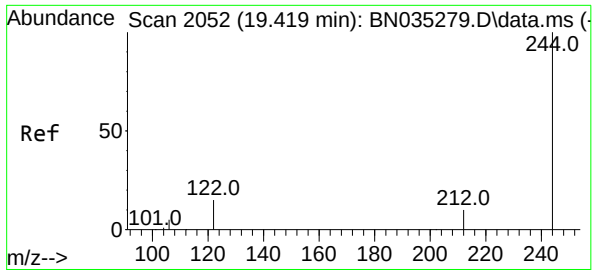
Ion Ratio Lower Upper

240 100

120 59.3 54.9 82.3

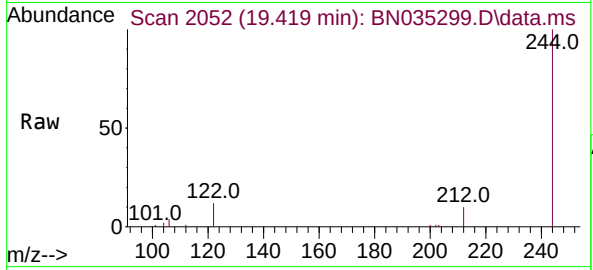
236 52.8 54.0 81.0#





#31  
Terphenyl-d14  
Concen: 0.729 ng  
RT: 19.419 min Scan# 2052  
Delta R.T. 0.000 min  
Lab File: BN035299.D  
Acq: 26 Nov 2024 02:38

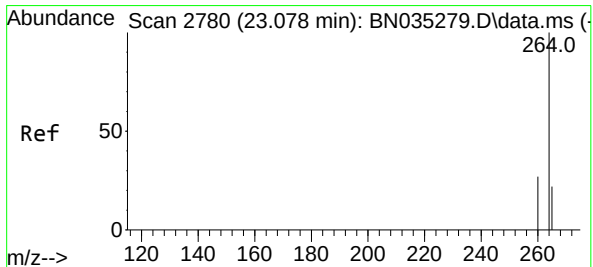
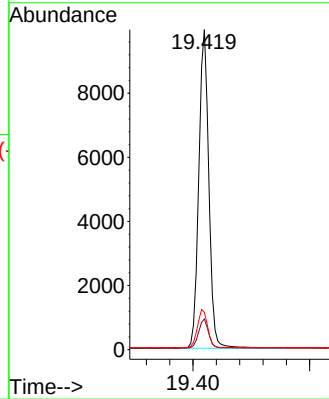
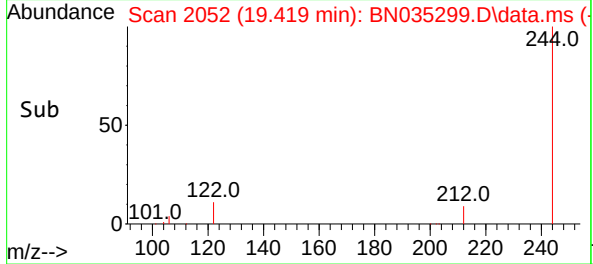
Instrument :  
BNA\_N  
ClientSampleId :  
RW5-SP303-20241121



Tgt Ion:244 Resp: 1185  
Ion Ratio Lower Upper  
244 100  
212 9.6 9.4 14.0  
122 11.7 13.0 19.4

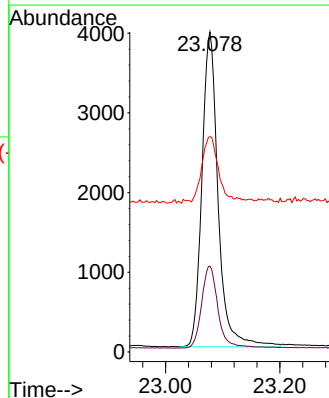
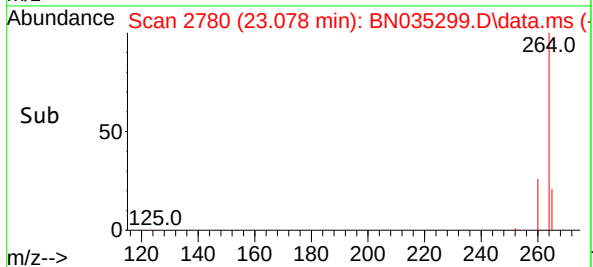
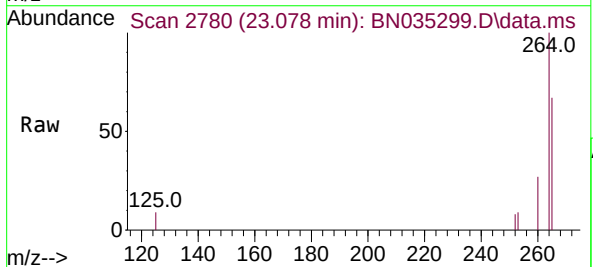
Manual Integrations  
APPROVED

Reviewed By :Yogesh Patel 11/27/2024  
Supervised By :mohammad ahmed 11/27/2024



#35  
Perylene-d12  
Concen: 0.400 ng  
RT: 23.078 min Scan# 2780  
Delta R.T. -0.000 min  
Lab File: BN035299.D  
Acq: 26 Nov 2024 02:38

Tgt Ion:264 Resp: 7740  
Ion Ratio Lower Upper  
264 100  
260 26.8 22.3 33.5  
265 67.3 68.6 103.0





# CALIBRATION SUMMARY

Method Path : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\  
 Method File : 8270-SIM-BN112524.M  
 Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 Last Update : Tue Nov 26 02:36:08 2024  
 Response Via : Initial Calibration

## Calibration Files

0.1 =BN035277.D 0.2 =BN035278.D 0.4 =BN035279.D 0.8 =BN035280.D 1.6 =BN035281.D 3.2 =BN035282.D 5.0 =BN035283.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           | 0.375          | 0.276 | 0.287 | 0.263 | 0.284 | 0.262 | 0.267 | 0.288    | 13.80 |
| 3)       | n-Nitrosodimet...     |                | 0.279 | 0.284 | 0.306 | 0.313 | 0.299 | 0.306 | 0.298    | 4.56  |
| 4) S     | 2-Fluorophenol        | 0.858          | 0.793 | 0.789 | 0.725 | 0.730 | 0.678 | 0.718 | 0.756    | 8.00  |
| 5) S     | Phenol-d6             | 1.194          | 1.125 | 1.105 | 1.022 | 1.025 | 0.963 | 0.955 | 1.056    | 8.40  |
| 6)       | bis(2-Chloroet...     | 0.910          | 0.870 | 0.896 | 0.887 | 0.914 | 0.874 | 0.869 | 0.889    | 2.11  |
|          |                       |                |       |       |       |       |       |       |          |       |
| 7) I     | Naphthalene-d8        | -----ISTD----- |       |       |       |       |       |       |          |       |
| 8) S     | Nitrobenzene-d5       | 0.267          | 0.272 | 0.347 | 0.327 | 0.356 | 0.348 | 0.354 | 0.324    | 11.95 |
| 9)       | Naphthalene           | 1.085          | 1.055 | 1.091 | 1.075 | 1.150 | 1.140 | 1.174 | 1.110    | 4.01  |
| 10)      | Hexachlorobuta...     | 0.281          | 0.289 | 0.312 | 0.311 | 0.339 | 0.330 | 0.322 | 0.312    | 6.74  |
| 11) SURR | 2-Methylnaphth...     | 0.561          | 0.531 | 0.539 | 0.527 | 0.566 | 0.580 | 0.616 | 0.560    | 5.61  |
| 12)      | 2-Methylnaphth...     | 0.690          | 0.680 | 0.680 | 0.675 | 0.748 | 0.782 | 0.829 | 0.726    | 8.37  |
|          |                       |                |       |       |       |       |       |       |          |       |
| 13) I    | Acenaphthene-d10      | -----ISTD----- |       |       |       |       |       |       |          |       |
| 14) S    | 2,4,6-Tribromo...     | 0.174          | 0.174 | 0.180 | 0.186 | 0.213 | 0.230 | 0.272 | 0.204    | 17.97 |
| 15) S    | 2-Fluorobiphenyl      | 0.595          | 0.424 | 0.245 | 0.118 | 0.082 | 0.049 | 0.033 | 0.221    | 97.20 |
| 16)      | Acenaphthylene        | 1.859          | 1.869 | 1.885 | 1.919 | 2.117 | 2.147 | 2.294 | 2.013    | 8.53  |
| 17)      | Acenaphthene          | 1.144          | 1.158 | 1.176 | 1.194 | 1.341 | 1.386 | 1.473 | 1.267    | 10.33 |
| 18)      | Fluorene              | 1.538          | 1.617 | 1.634 | 1.688 | 1.907 | 1.985 | 2.068 | 1.777    | 11.63 |
|          |                       |                |       |       |       |       |       |       |          |       |
| 19) I    | Phenanthrene-d10      | -----ISTD----- |       |       |       |       |       |       |          |       |
| 20)      | 4,6-Dinitro-2-...     |                | 0.027 | 0.034 | 0.039 | 0.048 | 0.056 |       | 0.041    | 27.63 |
| 21)      | 4-Bromophenyl-...     | 0.248          | 0.236 | 0.235 | 0.233 | 0.252 | 0.271 | 0.300 | 0.254    | 9.59  |
| 22)      | Hexachlorobenzene     | 0.326          | 0.336 | 0.352 | 0.363 | 0.391 | 0.381 | 0.394 | 0.363    | 7.33  |
| 23)      | Atrazine              | 0.091          | 0.095 | 0.100 | 0.100 | 0.114 | 0.117 | 0.133 | 0.107    | 13.85 |
| 24)      | Pentachlorophenol     |                | 0.067 | 0.079 | 0.082 | 0.097 | 0.112 |       | 0.087    | 19.82 |
| 25)      | Phenanthrene          | 1.121          | 1.103 | 1.131 | 1.162 | 1.271 | 1.364 | 1.448 | 1.229    | 11.00 |
| 26)      | Anthracene            | 0.904          | 0.899 | 0.911 | 0.953 | 1.100 | 1.252 | 1.367 | 1.055    | 18.01 |
| 27) SURR | Fluoranthene-d10      | 0.953          | 0.963 | 0.967 | 0.998 | 1.120 | 1.224 | 1.269 | 1.070    | 12.46 |
| 28)      | Fluoranthene          | 1.248          | 1.282 | 1.340 | 1.453 | 1.732 | 1.890 | 1.907 | 1.550    | 18.48 |
|          |                       |                |       |       |       |       |       |       |          |       |
| 29) I    | Chrysene-d12          | -----ISTD----- |       |       |       |       |       |       |          |       |
| 30)      | Pyrene                | 1.357          | 1.179 | 1.528 | 1.271 | 1.779 | 1.615 |       | 1.455 E1 | 15.55 |
| 31) S    | Terphenyl-d14         | 0.628          | 0.551 | 0.726 | 0.608 | 0.862 | 0.764 | 1.035 | 0.739 E1 | 22.66 |
| 32)      | Benzo(a)anthra...     | 1.299          | 1.119 | 1.382 | 1.150 | 1.641 | 1.439 | 1.714 | 1.392 E1 | 16.32 |
| 33)      | Chrysene              | 1.299          | 1.119 | 1.382 | 1.150 | 1.641 | 1.439 | 1.714 | 1.392 E1 | 16.32 |
| 34)      | Bis(2-ethylhex...     |                | 1.747 | 0.910 | 0.506 | 0.436 | 0.229 |       | 0.765    | 78.59 |
|          |                       |                |       |       |       |       |       |       |          |       |
| 35) I    | Perylene-d12          | -----ISTD----- |       |       |       |       |       |       |          |       |

Method Path : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\

Method File : 8270-SIM-BN112524.M

|       |                   |       |       |       |       |       |       |       |       |       |
|-------|-------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 36)   | Indeno(1,2,3-c... | 1.377 | 1.410 | 1.523 | 1.574 | 1.744 | 1.787 | 2.049 | 1.638 | 14.53 |
| 37)   | Benzo(b)fluora... | 1.505 | 1.552 | 1.452 | 1.714 | 1.877 | 2.005 | 2.064 | 1.738 | 14.25 |
| 38)   | Benzo(k)fluora... | 1.567 | 1.585 | 1.632 | 1.796 | 2.049 | 2.079 | 2.165 | 1.839 | 13.87 |
| 39) C | Benzo(a)pyrene    | 1.191 | 1.181 | 1.143 | 1.297 | 1.428 | 1.476 | 1.586 | 1.329 | 12.80 |
| 40)   | Dibenzo(a,h)an... | 0.961 | 1.028 | 1.107 | 1.202 | 1.353 | 1.402 | 1.612 | 1.238 | 18.62 |
| 41)   | Benzo(g,h,i)pe... | 1.296 | 1.311 | 1.241 | 1.412 | 1.508 | 1.517 | 1.737 | 1.432 | 11.97 |

-----  
(#) = Out of Range

Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN112524\  
 Data File : BN035277.D  
 Acq On : 25 Nov 2024 10:16  
 Operator : RC/JU  
 Sample : SSTDICC0.1  
 Misc :  
 ALS Vial : 52 Sample Multiplier: 1

Instrument :  
 BNA\_N  
 ClientSampleId :  
 SSTDICC0.1

Manual Integrations  
 APPROVED

Reviewed By :Yogesh  
 Patel

Quant Time: Nov 25 14:17:26 2024  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\8270-SIM-BN112524.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Mon Nov 25 14:16:35 2024  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc  | Units | Dev(Min) |                               |
|-------------------------------|--------|------|----------|-------|-------|----------|-------------------------------|
| Internal Standards            |        |      |          |       |       |          | 11/27/2024                    |
| 1) 1,4-Dichlorobenzene-d4     | 7.315  | 152  | 2616     | 0.400 | ng    | 0.00     | Supervised By :mohammad Ahmed |
| 7) Naphthalene-d8             | 10.063 | 136  | 6701     | 0.400 | ng    | 0.00     |                               |
| 13) Acenaphthene-d10          | 13.976 | 164  | 3999     | 0.400 | ng    | 0.00     |                               |
| 19) Phenanthrene-d10          | 16.734 | 188  | 9103     | 0.400 | ng    | 0.00     |                               |
| 29) Chrysene-d12              | 21.008 | 240  | 834      | 0.400 | ng    | 0.00     |                               |
| 35) Perylene-d12              | 23.081 | 264  | 5298     | 0.400 | ng    | 0.00     | 11/27/2024                    |
| System Monitoring Compounds   |        |      |          |       |       |          |                               |
| 4) 2-Fluorophenol             | 4.968  | 112  | 561      | 0.084 | ng    | 0.00     |                               |
| 5) Phenol-d6                  | 6.520  | 99   | 781      | 0.094 | ng    | 0.00     |                               |
| 8) Nitrobenzene-d5            | 8.450  | 82   | 447m     | 0.077 | ng    | 0.00     |                               |
| 11) 2-Methylnaphthalene-d10   | 11.670 | 152  | 939      | 0.079 | ng    | 0.00     |                               |
| 14) 2,4,6-Tribromophenol      | 15.484 | 330  | 174      | 0.060 | ng    | 0.00     |                               |
| 15) 2-Fluorobiphenyl          | 12.608 | 172  | 595      | 0.037 | ng    | 0.00     |                               |
| 27) Fluoranthene-d10          | 18.792 | 212  | 2168     | 0.078 | ng    | 0.00     |                               |
| 31) Terphenyl-d14             | 19.419 | 244  | 1310     | 0.749 | ng    | 0.00     |                               |
| Target Compounds              |        |      |          |       |       |          | Qvalue                        |
| 2) 1,4-Dioxane                | 3.010  | 88   | 245      | 0.103 | ng    | #        | 78                            |
| 6) bis(2-Chloroethyl)ether    | 6.766  | 93   | 595      | 0.095 | ng    |          | 97                            |
| 9) Naphthalene                | 10.116 | 128  | 1817     | 0.104 | ng    | #        | 92                            |
| 10) Hexachlorobutadiene       | 10.415 | 225  | 471      | 0.092 | ng    | #        | 98                            |
| 12) 2-Methylnaphthalene       | 11.746 | 142  | 1156     | 0.090 | ng    |          | 98                            |
| 16) Acenaphthylene            | 13.688 | 152  | 1859     | 0.109 | ng    |          | 99                            |
| 17) Acenaphthene              | 14.030 | 154  | 1144     | 0.102 | ng    |          | 92                            |
| 18) Fluorene                  | 15.035 | 166  | 1538     | 0.093 | ng    |          | 99                            |
| 21) 4-Bromophenyl-phenylether | 15.952 | 248  | 565      | 0.097 | ng    | #        | 70                            |
| 22) Hexachlorobenzene         | 16.051 | 284  | 743      | 0.123 | ng    |          | 98                            |
| 23) Atrazine                  | 16.237 | 200  | 206      | 0.040 | ng    | #        | 82                            |
| 25) Phenanthrene              | 16.783 | 178  | 2552     | 0.107 | ng    |          | 99                            |
| 26) Anthracene                | 16.870 | 178  | 2057     | 0.093 | ng    |          | 99                            |
| 28) Fluoranthene              | 18.825 | 202  | 2840     | 0.086 | ng    |          | 99                            |
| 30) Pyrene                    | 19.192 | 202  | 2830     | 1.019 | ng    |          | 100                           |
| 32) Benzo(a)anthracene        | 21.017 | 228  | 2709     | 0.933 | ng    |          | 98                            |
| 33) Chrysene                  | 21.017 | 228  | 2709     | 0.942 | ng    |          | 98                            |
| 36) Indeno(1,2,3-cd)pyrene    | 25.121 | 276  | 1824     | 0.086 | ng    |          | 98                            |
| 37) Benzo(b)fluoranthene      | 22.464 | 252  | 1993     | 0.112 | ng    | #        | 78                            |
| 38) Benzo(k)fluoranthene      | 22.505 | 252  | 2076     | 0.116 | ng    | #        | 78                            |
| 39) Benzo(a)pyrene            | 22.987 | 252  | 1578     | 0.101 | ng    | #        | 73                            |
| 40) Dibenzo(a,h)anthracene    | 25.142 | 278  | 1273     | 0.076 | ng    | #        | 76                            |
| 41) Benzo(g,h,i)perylene      | 25.738 | 276  | 1716     | 0.096 | ng    | #        | 88                            |

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

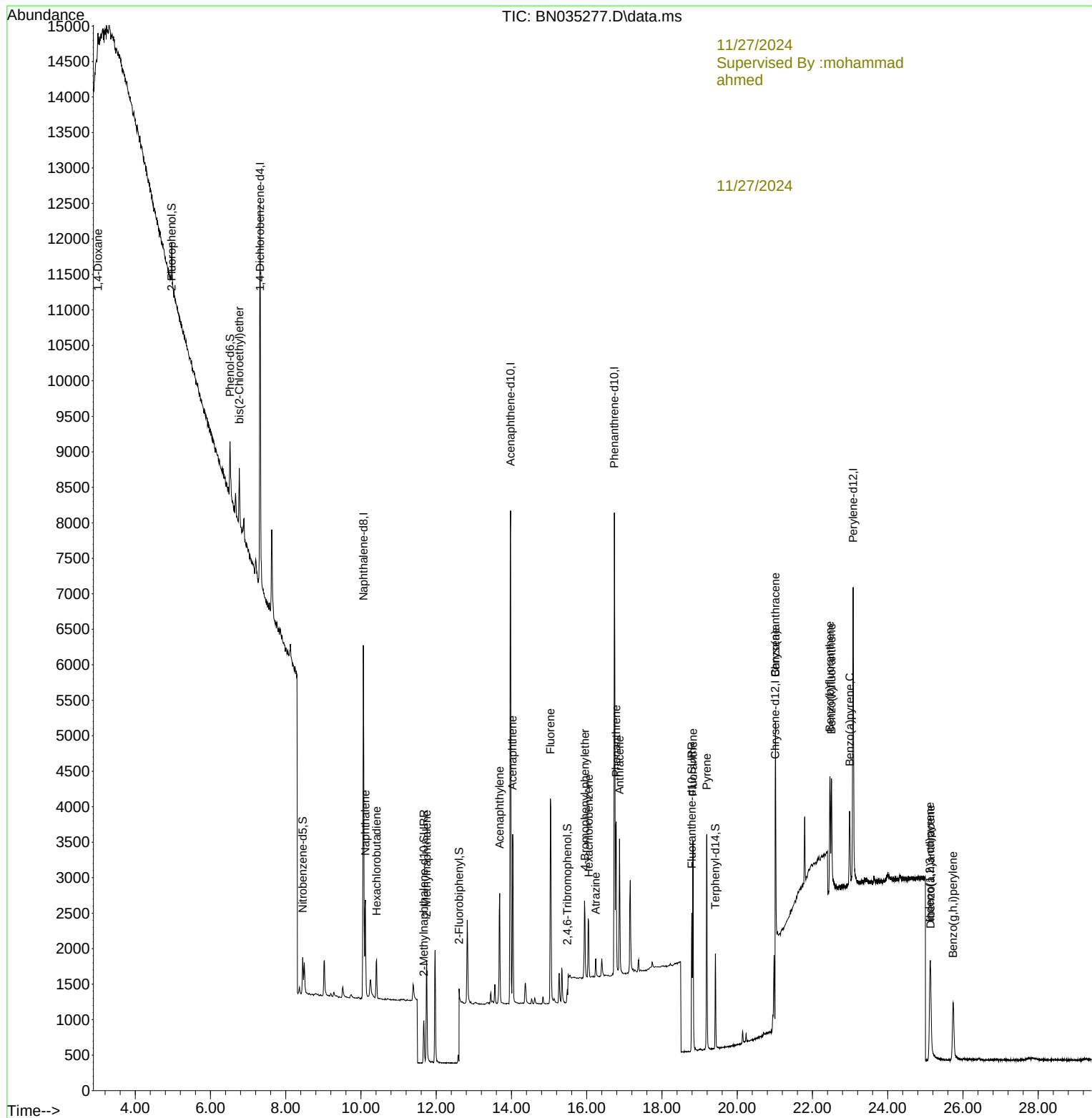
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Data File : BN035277.D  
Acq On : 25 Nov 2024 10:16  
Operator : RC/JU  
Sample : SSTDICC0.1  
Misc :  
ALS Vial : 52 Sample Multiplier: 1

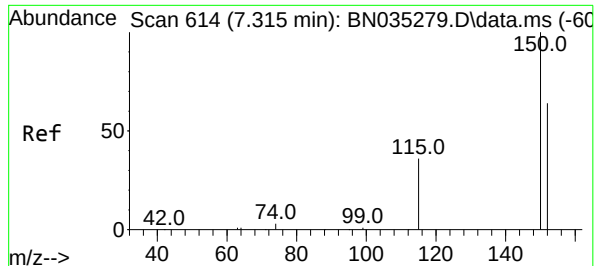
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC0.1

Quant Time: Nov 25 14:17:26 2024  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\8270-SIM-BN112524.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Mon Nov 25 14:16:35 2024  
Response via : Initial Calibration

Manual Integrations  
APPROVED

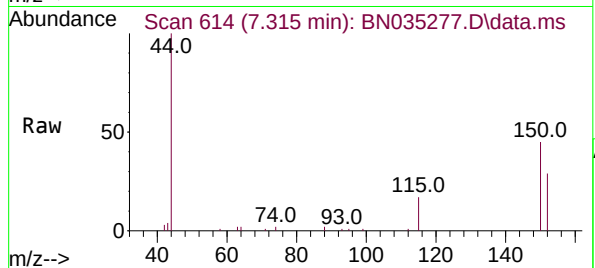
Reviewed By :Yogesh  
Patel





#1  
1,4-Dichlorobenzene-d4  
Concen: 0.400 ng  
RT: 7.315 min Scan# 61  
Delta R.T. -0.000 min  
Lab File: BN035277.D  
Acq: 25 Nov 2024 10:16

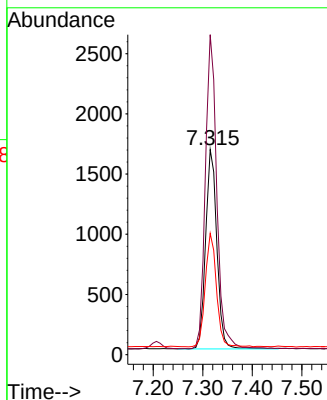
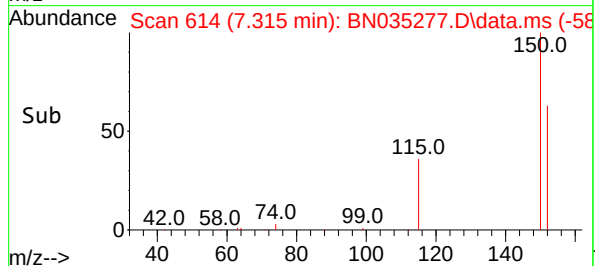
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC0.1



Tgt Ion: 152 Resp: 2610  
Ion Ratio Lower Upper  
152 100  
150 156.0 124.5 186.7  
115 59.1 47.8 71.8

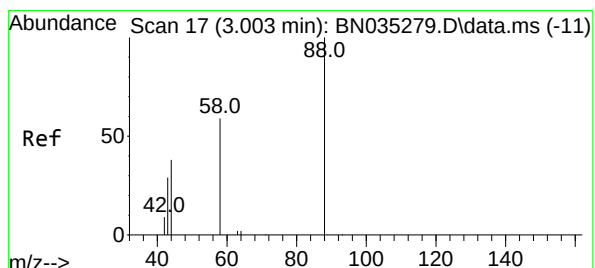
Manual Integrations  
APPROVED

Reviewed By :Yogesh  
Patel



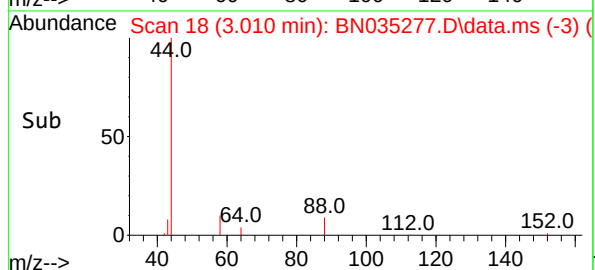
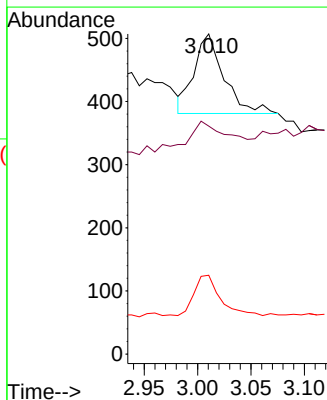
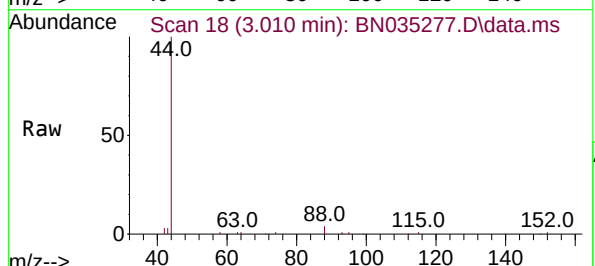
11/27/2024  
Supervised By :mohammad  
ahmed

11/27/2024

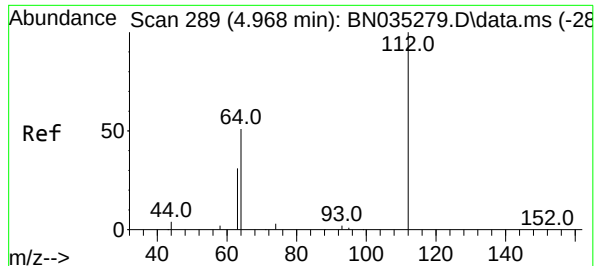


#2  
1,4-Dioxane  
Concen: 0.103 ng  
RT: 3.010 min Scan# 18  
Delta R.T. 0.007 min  
Lab File: BN035277.D  
Acq: 25 Nov 2024 10:16

Tgt Ion: 88 Resp: 245  
Ion Ratio Lower Upper  
88 100  
43 78.8 48.1 72.1#  
58 44.9 46.9 70.3#







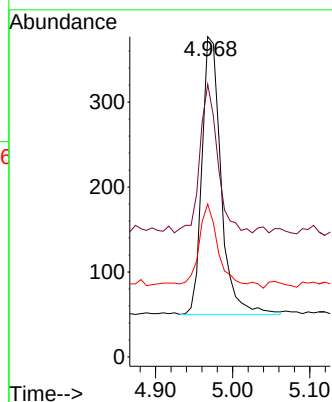
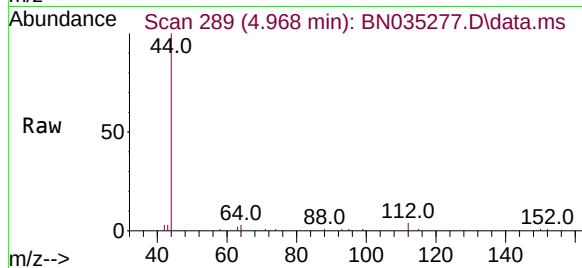
#4  
2-Fluorophenol  
Concen: 0.084 ng  
RT: 4.968 min Scan# 289  
Delta R.T. -0.000 min  
Lab File: BN035277.D  
Acq: 25 Nov 2024 10:16

Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC0.1

Tgt Ion: 112 Resp: 56  
Ion Ratio Lower Upper  
112 100  
64 49.9 40.4 60.6  
63 32.1 23.8 35.8

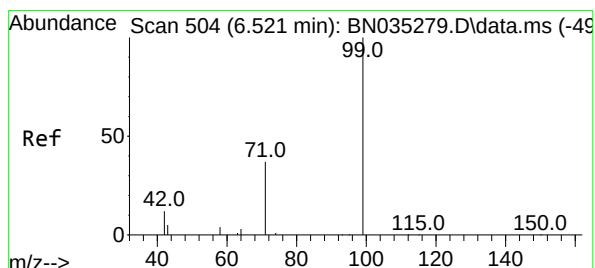
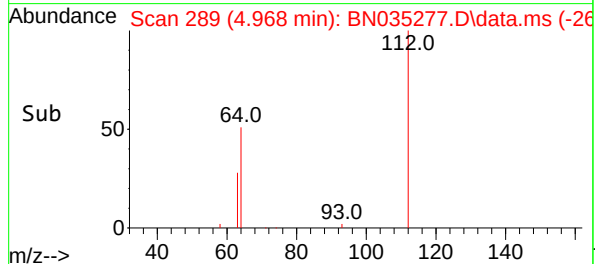
Manual Integrations  
APPROVED

Reviewed By :Yogesh  
Patel



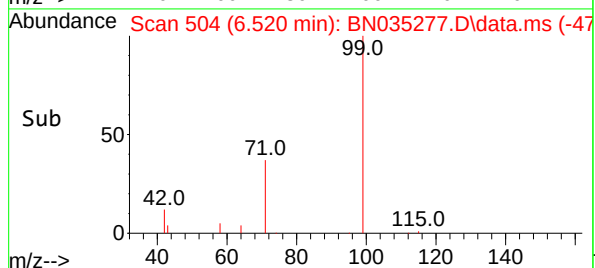
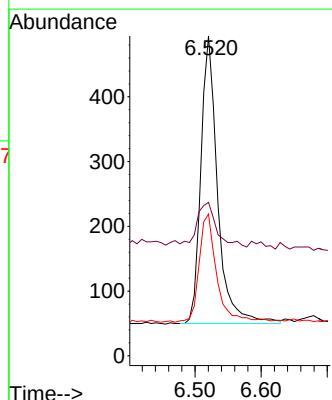
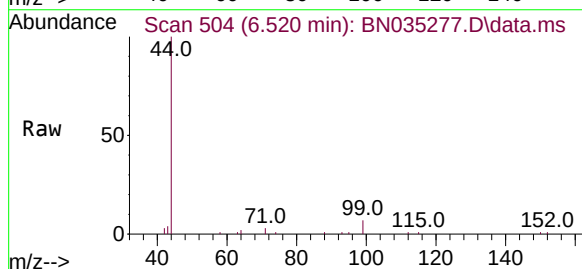
11/27/2024  
Supervised By :mohammad  
ahmed

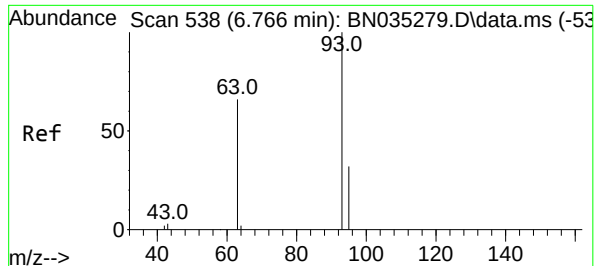
11/27/2024



#5  
Phenol-d6  
Concen: 0.094 ng  
RT: 6.520 min Scan# 504  
Delta R.T. -0.000 min  
Lab File: BN035277.D  
Acq: 25 Nov 2024 10:16

Tgt Ion: 99 Resp: 781  
Ion Ratio Lower Upper  
99 100  
42 18.4 12.8 19.2  
71 39.8 31.4 47.2





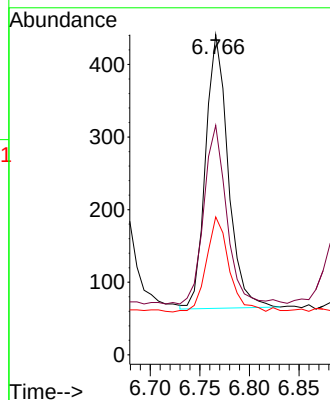
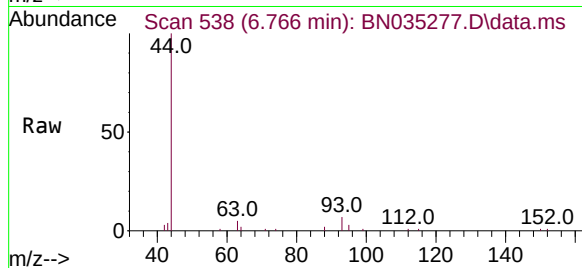
#6  
bis(2-Chloroethyl)ether  
Concen: 0.095 ng  
RT: 6.766 min Scan# 538  
Delta R.T. -0.000 min  
Lab File: BN035277.D  
Acq: 25 Nov 2024 10:16

Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC0.1

Tgt Ion: 93 Resp: 599  
Ion Ratio Lower Upper  
93 100  
63 66.6 52.3 78.5  
95 35.0 25.5 38.3

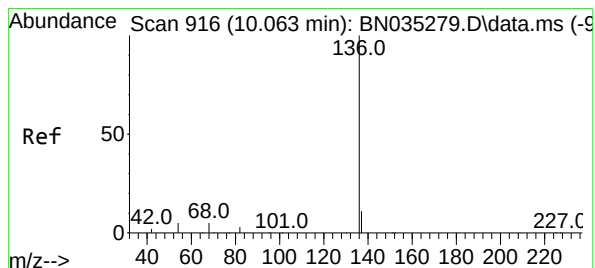
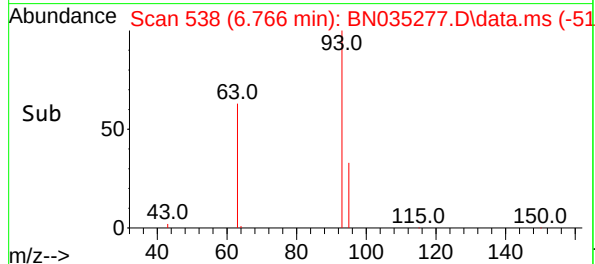
Manual Integrations  
APPROVED

Reviewed By :Yogesh  
Patel



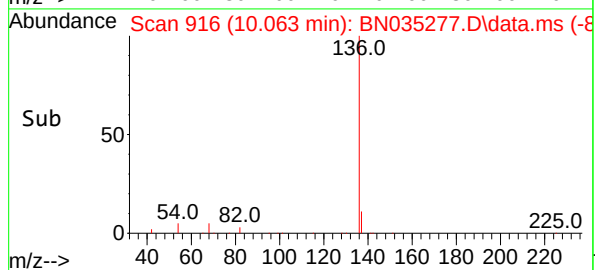
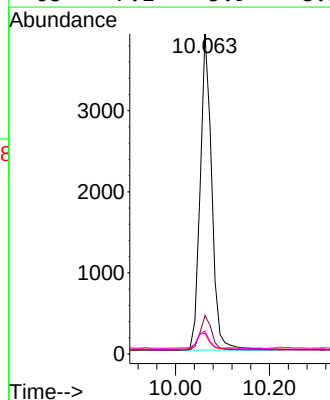
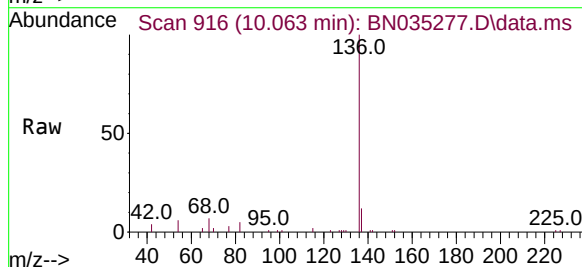
11/27/2024  
Supervised By :mohammad  
ahmed

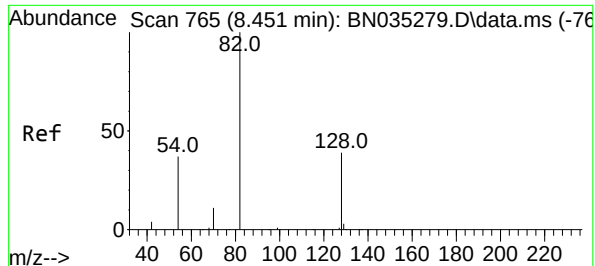
11/27/2024



#7  
Naphthalene-d8  
Concen: 0.400 ng  
RT: 10.063 min Scan# 916  
Delta R.T. -0.000 min  
Lab File: BN035277.D  
Acq: 25 Nov 2024 10:16

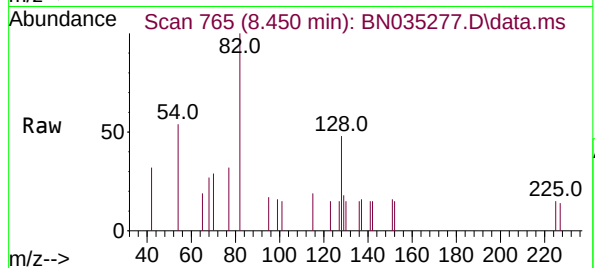
Tgt Ion:136 Resp: 6701  
Ion Ratio Lower Upper  
136 100  
137 12.0 9.7 14.5  
54 6.4 5.3 7.9  
68 7.1 5.9 8.9





#8  
Nitrobenzene-d5  
Concen: 0.077 ng m  
RT: 8.450 min Scan# 765  
Delta R.T. -0.000 min  
Lab File: BN035277.D  
Acq: 25 Nov 2024 10:16

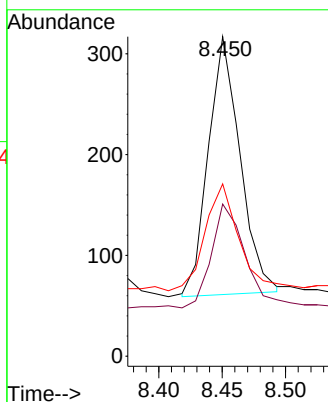
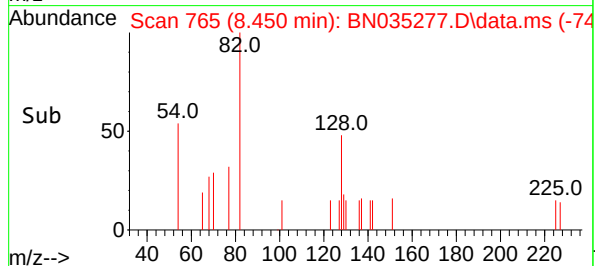
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC0.1



Tgt Ion: 82 Resp: 44  
Ion Ratio Lower Upper  
82 100  
128 47.6 33.0 49.4  
54 53.9 33.3 49.9

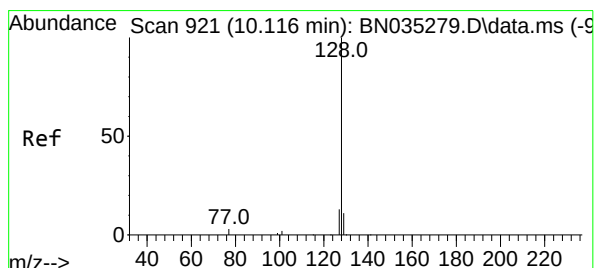
Manual Integrations  
APPROVED

Reviewed By :Yogesh  
Patel



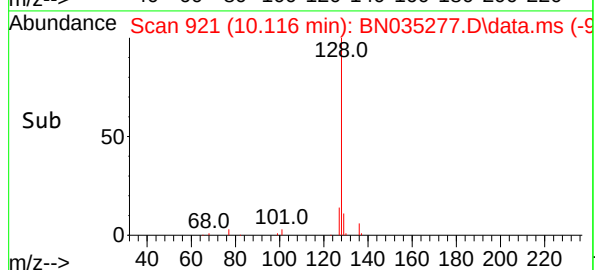
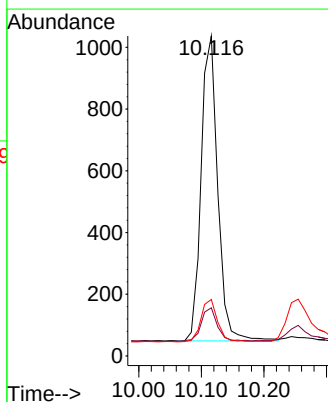
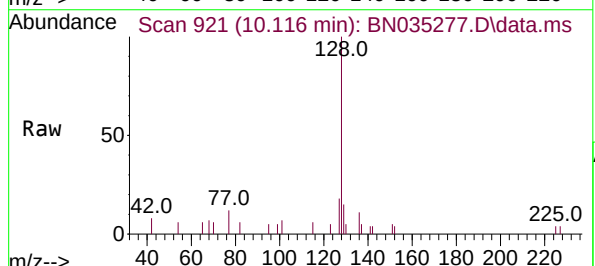
11/27/2024  
Supervised By :mohammad  
ahmed

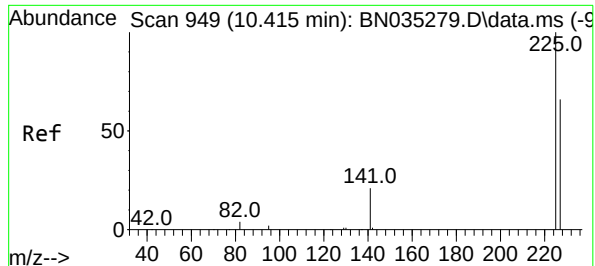
11/27/2024



#9  
Naphthalene  
Concen: 0.104 ng  
RT: 10.116 min Scan# 921  
Delta R.T. -0.000 min  
Lab File: BN035277.D  
Acq: 25 Nov 2024 10:16

Tgt Ion:128 Resp: 1817  
Ion Ratio Lower Upper  
128 100  
129 15.0 9.6 14.4#  
127 17.6 11.3 16.9#





#10

Hexachlorobutadiene

Concen: 0.092 ng

RT: 10.415 min Scan# 949

Delta R.T. -0.000 min

Lab File: BN035277.D

Acq: 25 Nov 2024 10:16

Instrument :

BNA\_N

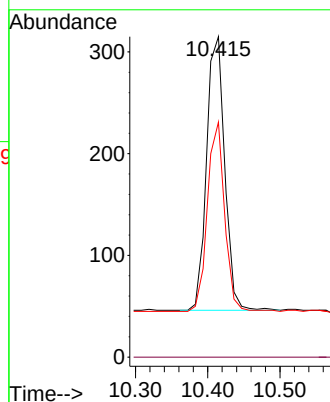
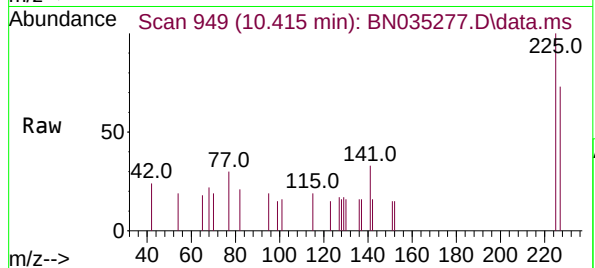
ClientSampleId :

SSTDICC0.1

Tgt Ion:225 Resp: 47.0  
Ion Ratio Lower Upper  
225 100  
223 0.0 0.0 0.0  
227 65.6 51.3 76.9

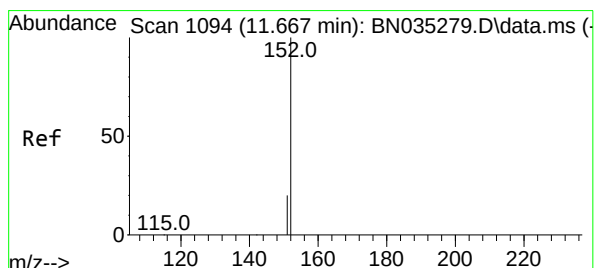
Manual Integrations  
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Reviewed By :Yogesh  
Patel



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Supervised By :mohammad  
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#11

2-Methylnaphthalene-d10

Concen: 0.079 ng

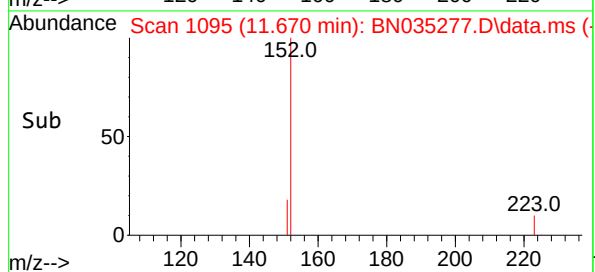
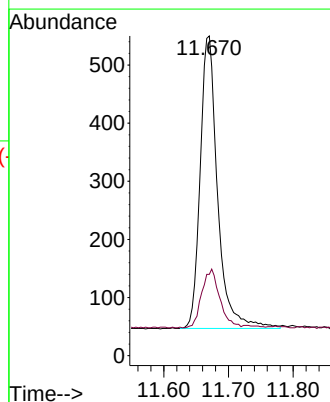
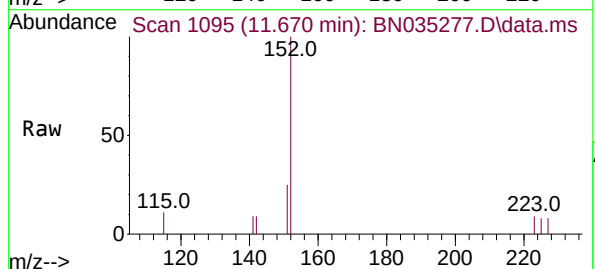
RT: 11.670 min Scan# 1095

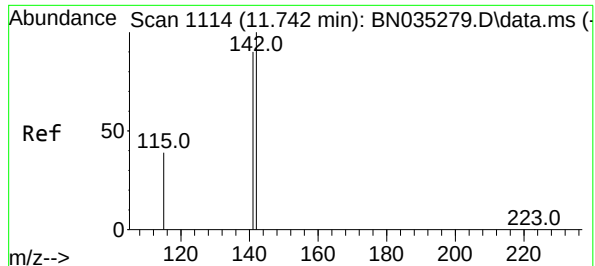
Delta R.T. 0.004 min

Lab File: BN035277.D

Acq: 25 Nov 2024 10:16

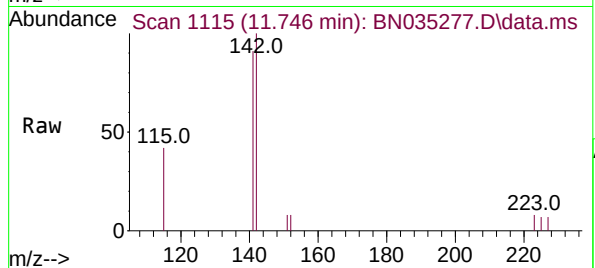
Tgt Ion:152 Resp: 939  
Ion Ratio Lower Upper  
152 100  
151 20.7 17.2 25.8





#12  
2-Methylnaphthalene  
Concen: 0.090 ng  
RT: 11.746 min Scan# 1114  
Delta R.T. 0.004 min  
Lab File: BN035277.D  
Acq: 25 Nov 2024 10:16

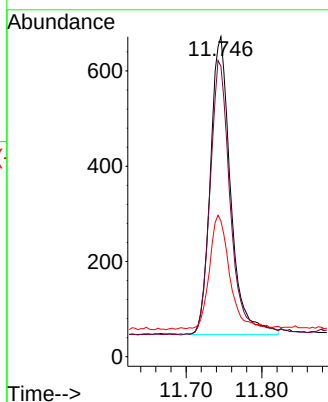
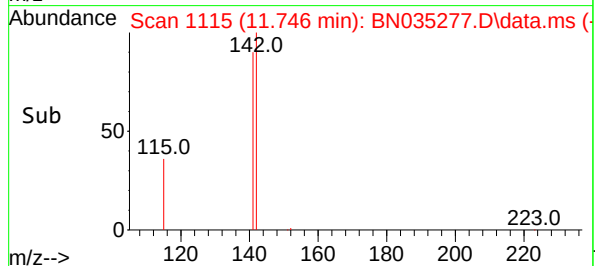
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC0.1



Tgt Ion:142 Resp: 1150  
Ion Ratio Lower Upper  
142 100  
141 90.8 71.8 107.8  
115 42.4 32.6 49.0

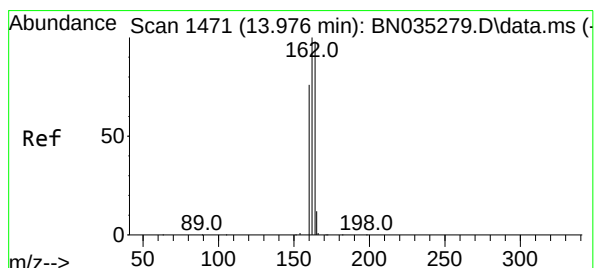
Manual Integrations  
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Patel



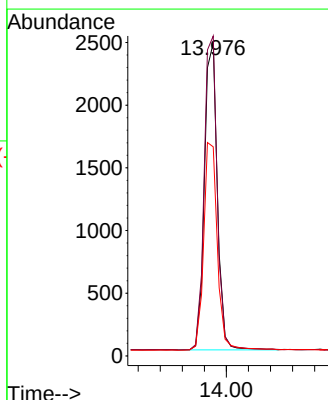
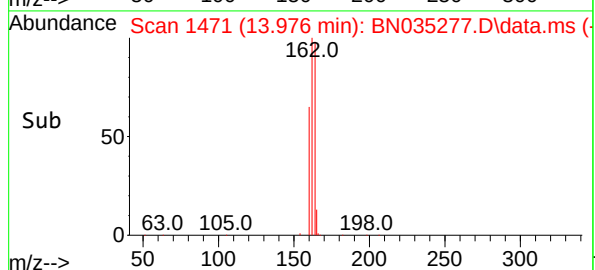
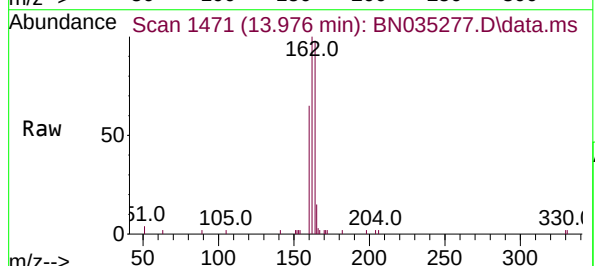
11/27/2024  
Supervised By :mohammad  
ahmed

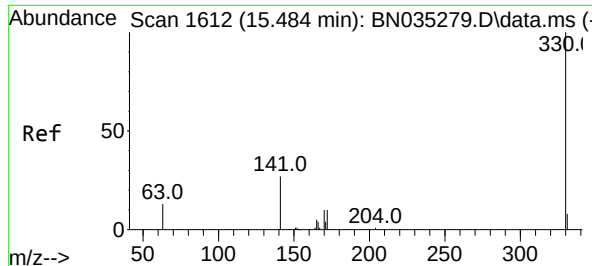
11/27/2024



#13  
Acenaphthene-d10  
Concen: 0.400 ng  
RT: 13.976 min Scan# 1471  
Delta R.T. -0.000 min  
Lab File: BN035277.D  
Acq: 25 Nov 2024 10:16

Tgt Ion:164 Resp: 3999  
Ion Ratio Lower Upper  
164 100  
162 102.2 82.0 123.0  
160 66.8 63.0 94.4





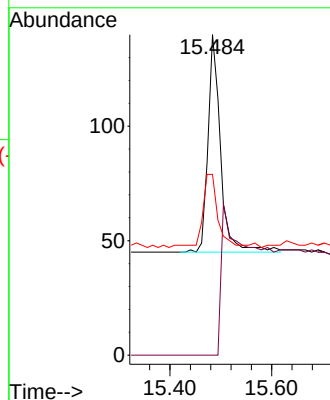
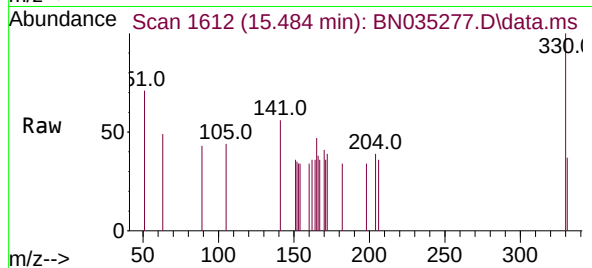
#14  
2,4,6-Tribromophenol  
Concen: 0.060 ng  
RT: 15.484 min Scan# 1612  
Delta R.T. -0.000 min  
Lab File: BN035277.D  
Acq: 25 Nov 2024 10:16

Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC0.1

Tgt Ion:330 Resp: 174  
Ion Ratio Lower Upper  
330 100  
332 0.0 0.0 0.0  
141 34.5 32.4 48.6

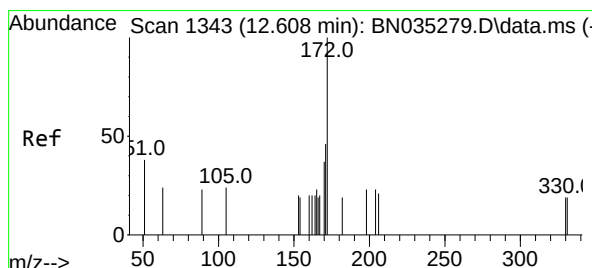
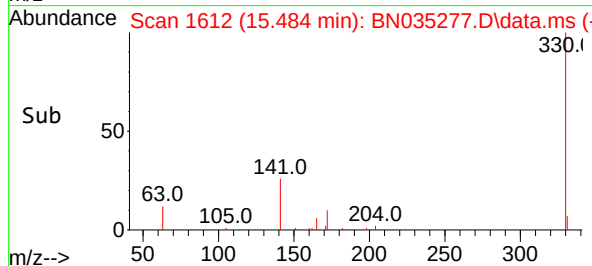
Manual Integrations  
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Reviewed By :Yogesh  
Patel



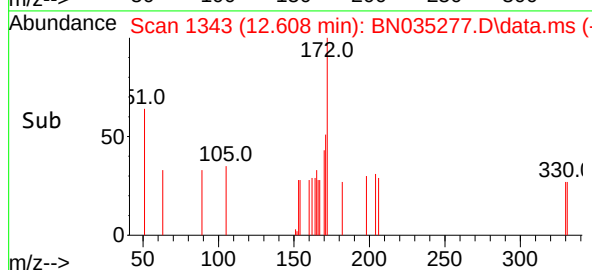
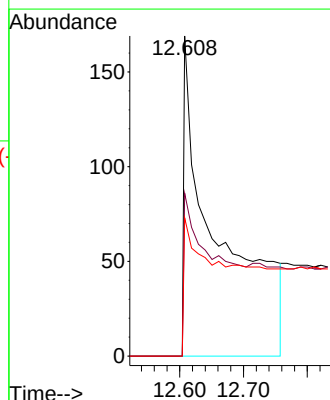
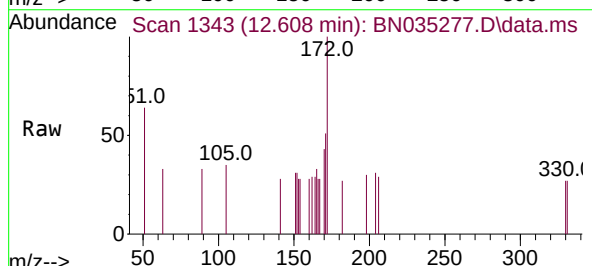
11/27/2024  
Supervised By :mohammad  
ahmed

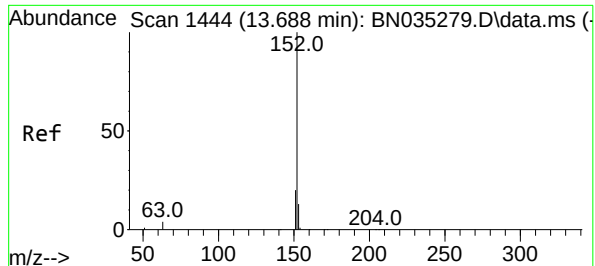
11/27/2024



#15  
2-Fluorobiphenyl  
Concen: 0.037 ng  
RT: 12.608 min Scan# 1343  
Delta R.T. -0.000 min  
Lab File: BN035277.D  
Acq: 25 Nov 2024 10:16

Tgt Ion:172 Resp: 595  
Ion Ratio Lower Upper  
172 100  
171 50.9 36.6 55.0  
170 43.2 29.7 44.5





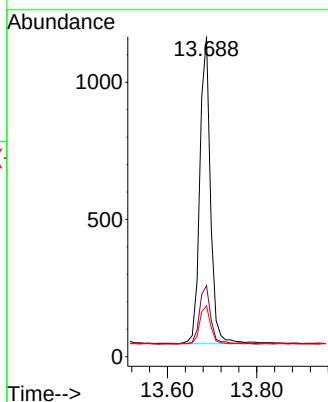
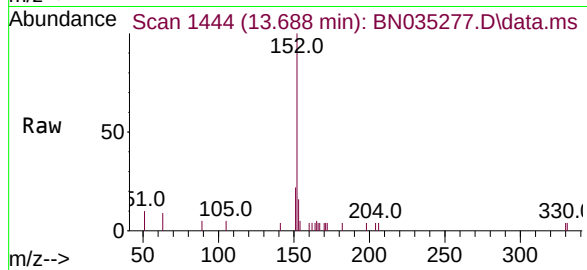
#16  
Acenaphthylene  
Concen: 0.109 ng  
RT: 13.688 min Scan# 1444  
Delta R.T. -0.000 min  
Lab File: BN035277.D  
Acq: 25 Nov 2024 10:16

Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC0.1

Tgt Ion:152 Resp: 1859  
Ion Ratio Lower Upper  
152 100  
151 19.4 15.9 23.9  
153 13.4 10.2 15.4

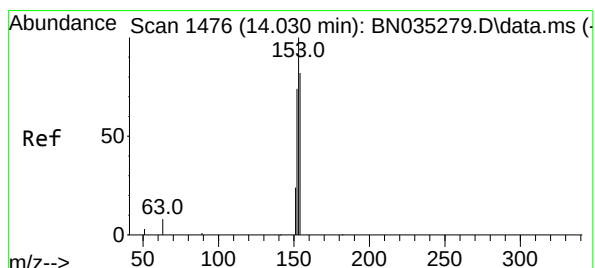
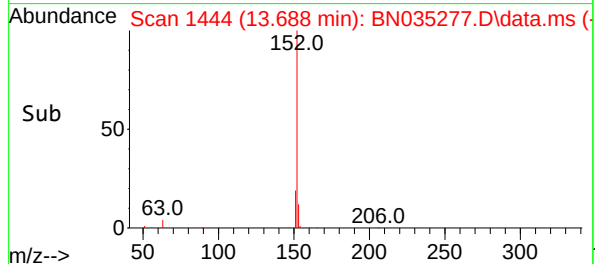
Manual Integrations  
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Patel



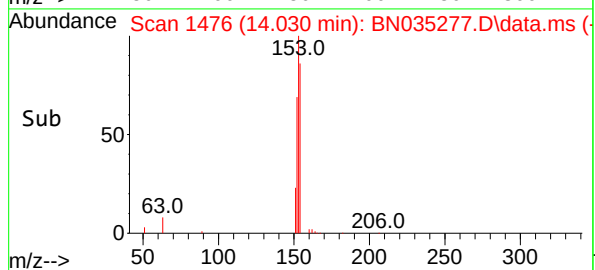
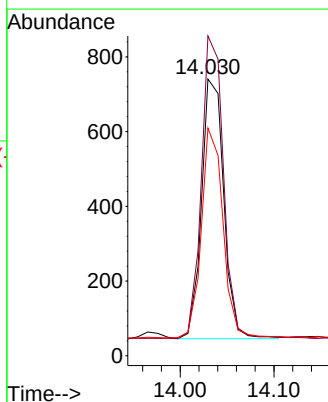
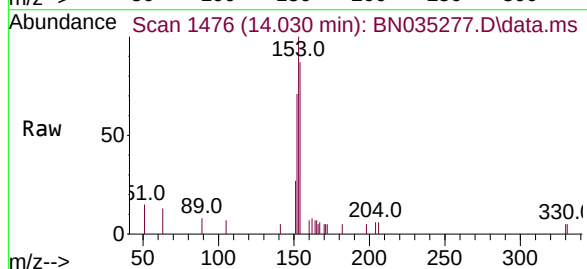
11/27/2024  
Supervised By :mohammad  
ahmed

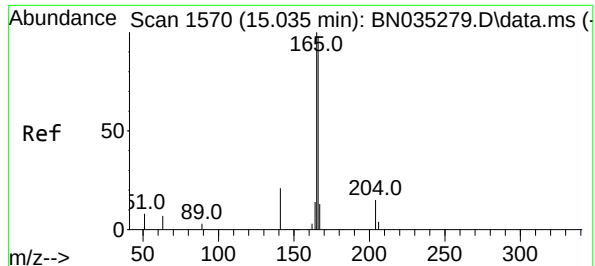
11/27/2024



#17  
Acenaphthene  
Concen: 0.102 ng  
RT: 14.030 min Scan# 1476  
Delta R.T. -0.000 min  
Lab File: BN035277.D  
Acq: 25 Nov 2024 10:16

Tgt Ion:154 Resp: 1144  
Ion Ratio Lower Upper  
154 100  
153 115.4 96.1 144.1  
152 78.8 72.2 108.2





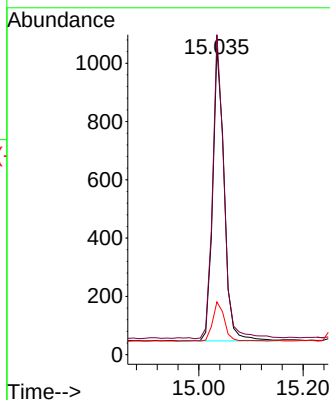
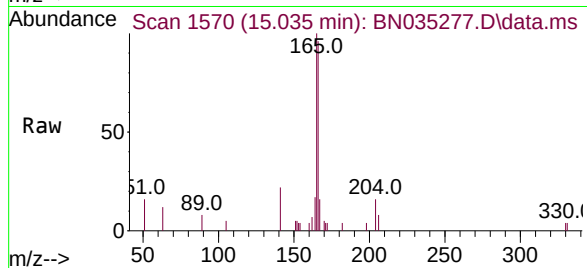
#18  
Fluorene  
Concen: 0.093 ng  
RT: 15.035 min Scan# 1570  
Delta R.T. -0.000 min  
Lab File: BN035277.D  
Acq: 25 Nov 2024 10:16

Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC0.1

Tgt Ion:166 Resp: 1538  
Ion Ratio Lower Upper  
166 100  
165 101.9 81.2 121.8  
167 13.8 10.5 15.7

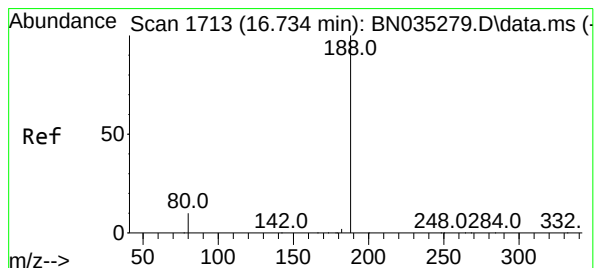
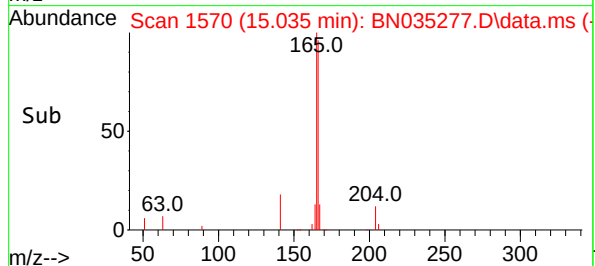
Manual Integrations  
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Patel



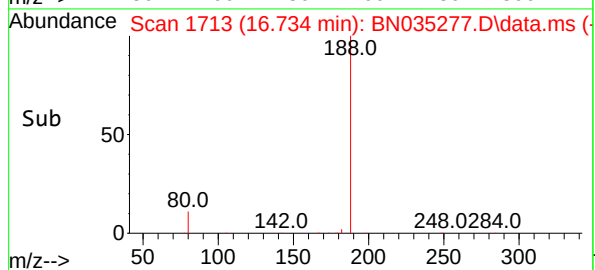
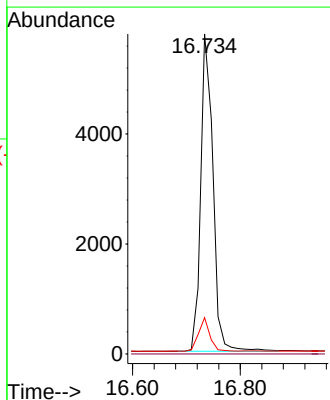
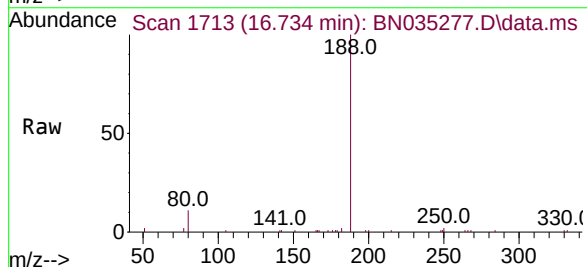
11/27/2024  
Supervised By :mohammad  
ahmed

11/27/2024

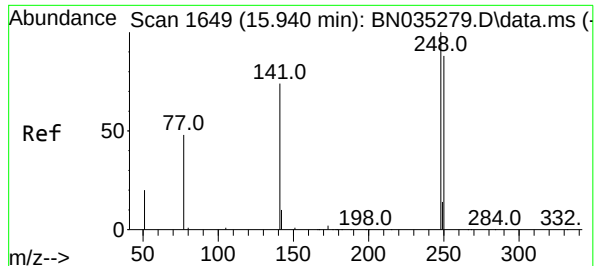


#19  
Phenanthrene-d10  
Concen: 0.400 ng  
RT: 16.734 min Scan# 1713  
Delta R.T. -0.000 min  
Lab File: BN035277.D  
Acq: 25 Nov 2024 10:16

Tgt Ion:188 Resp: 9103  
Ion Ratio Lower Upper  
188 100  
94 0.0 0.0 0.0  
80 11.4 8.9 13.3

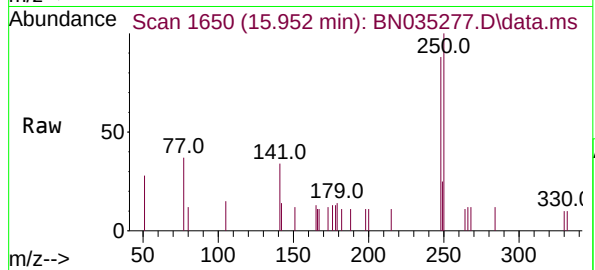






#21  
4-Bromophenyl-phenylether  
Concen: 0.097 ng  
RT: 15.952 min Scan# 1650  
Delta R.T. 0.012 min  
Lab File: BN035277.D  
Acq: 25 Nov 2024 10:16

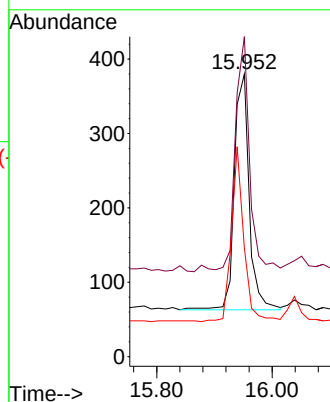
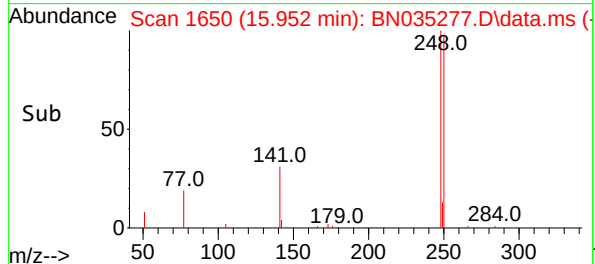
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC0.1



Tgt Ion: 248 Resp: 568  
Ion Ratio Lower Upper  
248 100  
250 113.2 74.8 112.2  
141 38.4 59.0 88.4

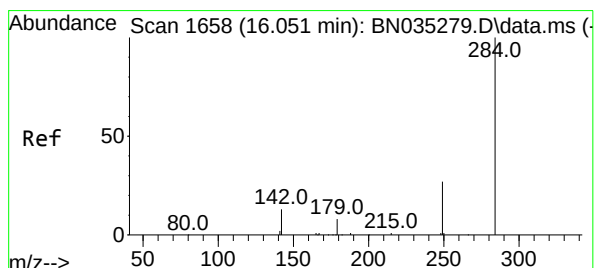
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Patel



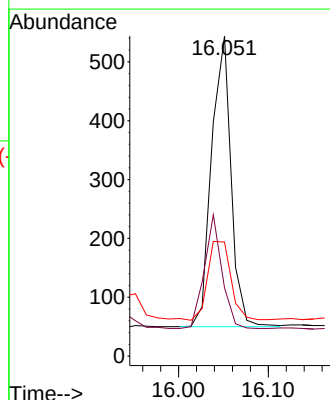
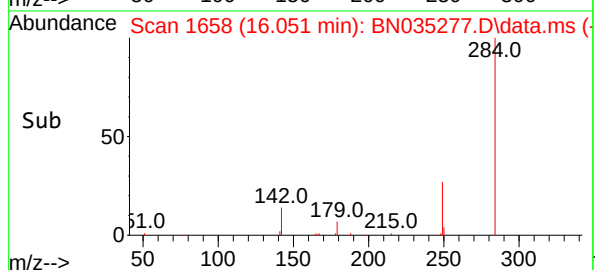
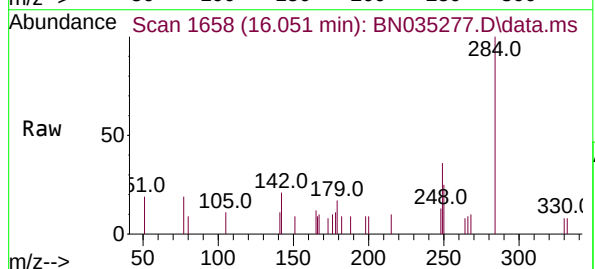
11/27/2024  
Supervised By : mohammad  
ahmed

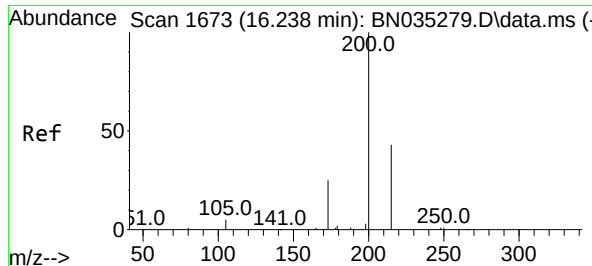
11/27/2024



#22  
Hexachlorobenzene  
Concen: 0.123 ng  
RT: 16.051 min Scan# 1658  
Delta R.T. -0.000 min  
Lab File: BN035277.D  
Acq: 25 Nov 2024 10:16

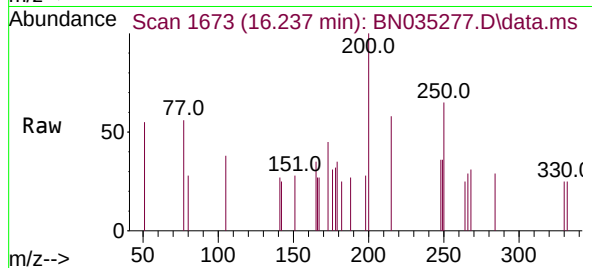
Tgt Ion: 284 Resp: 743  
Ion Ratio Lower Upper  
284 100  
142 35.4 28.7 43.1  
249 33.1 25.4 38.0





#23  
Atrazine  
Concen: 0.040 ng  
RT: 16.237 min Scan# 1673  
Delta R.T. -0.000 min  
Lab File: BN035277.D  
Acq: 25 Nov 2024 10:16

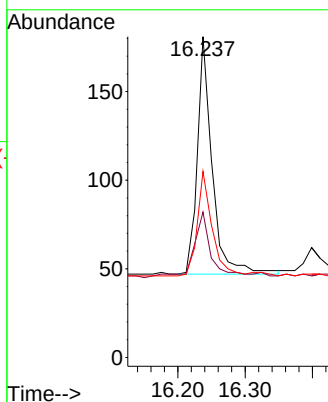
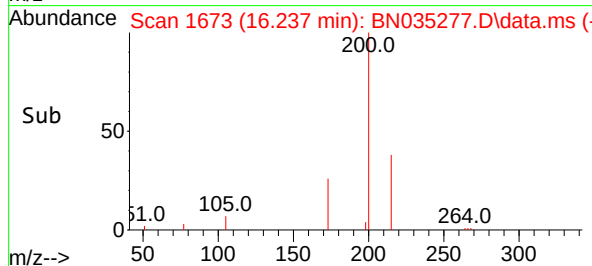
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC0.1



Tgt Ion:200 Resp: 200  
Ion Ratio Lower Upper  
200 100  
173 45.3 25.8 38.8  
215 58.0 38.6 58.0

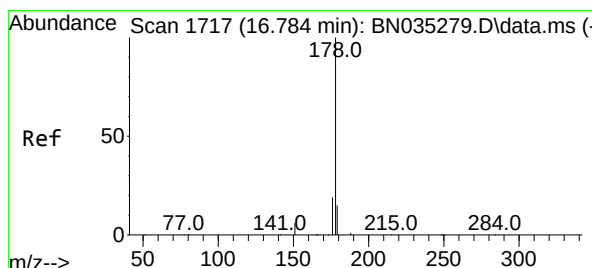
Manual Integrations  
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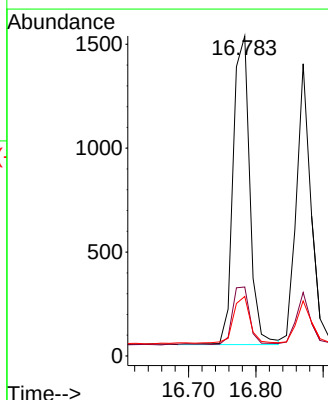
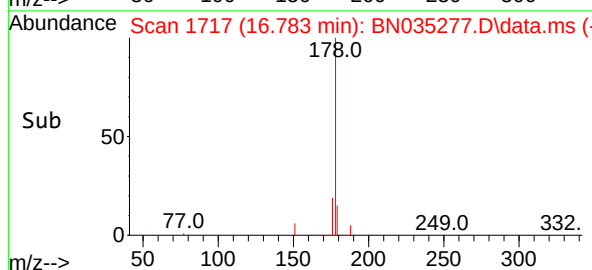
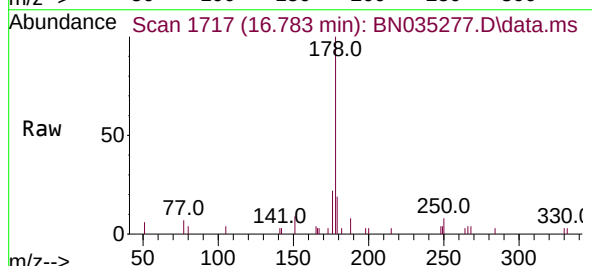
11/27/2024  
Supervised By :mohammad  
ahmed

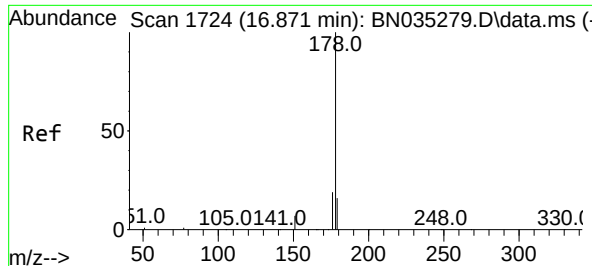
11/27/2024



#25  
Phenanthrene  
Concen: 0.107 ng  
RT: 16.783 min Scan# 1717  
Delta R.T. -0.000 min  
Lab File: BN035277.D  
Acq: 25 Nov 2024 10:16

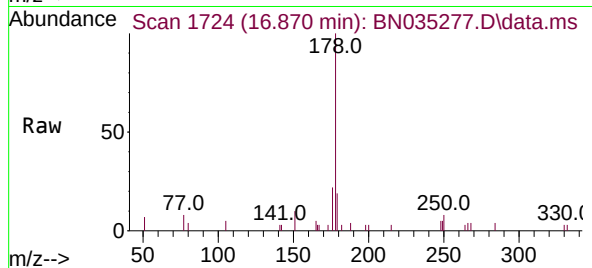
Tgt Ion:178 Resp: 2552  
Ion Ratio Lower Upper  
178 100  
176 19.1 15.4 23.0  
179 15.2 12.6 18.8





#26  
Anthracene  
Concen: 0.093 ng  
RT: 16.870 min Scan# 11  
Delta R.T. -0.000 min  
Lab File: BN035277.D  
Acq: 25 Nov 2024 10:16

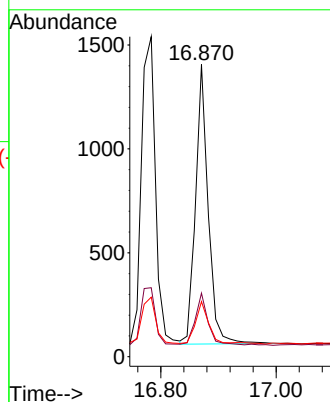
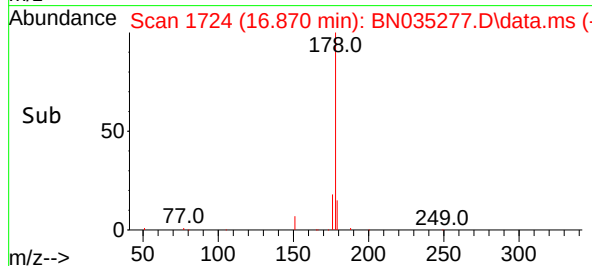
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC0.1



Tgt Ion:178 Resp: 205  
Ion Ratio Lower Upper  
178 100  
176 18.3 15.0 22.4  
179 15.9 12.4 18.6

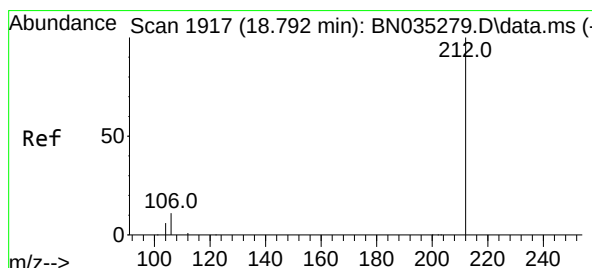
Manual Integrations  
APPROVED

Reviewed By :Yogesh  
Patel



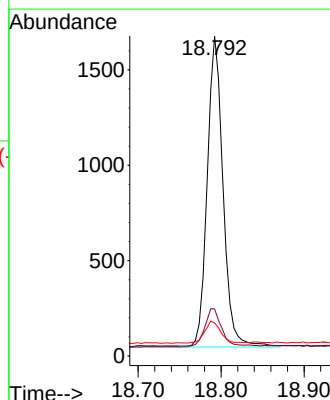
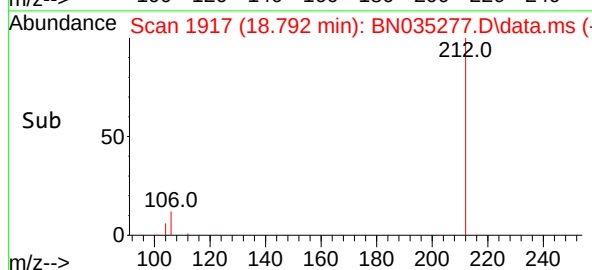
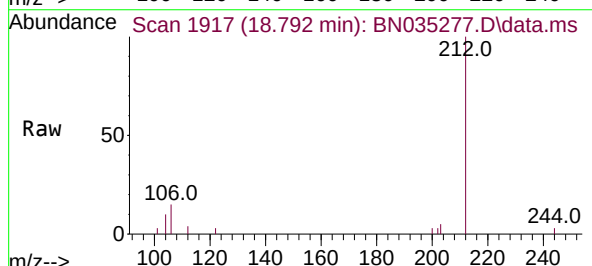
11/27/2024  
Supervised By :mohammad  
ahmed

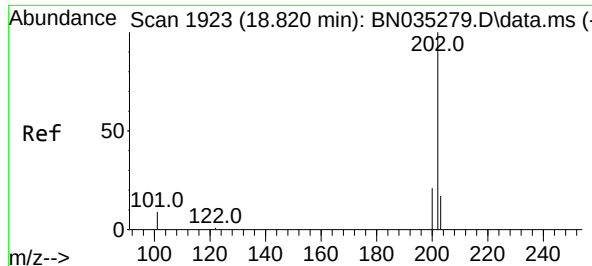
11/27/2024



#27  
Fluoranthene-d10  
Concen: 0.078 ng  
RT: 18.792 min Scan# 1917  
Delta R.T. -0.000 min  
Lab File: BN035277.D  
Acq: 25 Nov 2024 10:16

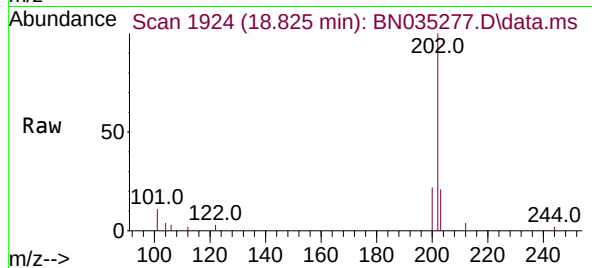
Tgt Ion:212 Resp: 2168  
Ion Ratio Lower Upper  
212 100  
106 12.5 9.8 14.8  
104 7.1 5.6 8.4





#28  
Fluoranthene  
Concen: 0.086 ng  
RT: 18.825 min Scan# 1924  
Delta R.T. 0.004 min  
Lab File: BN035277.D  
Acq: 25 Nov 2024 10:16

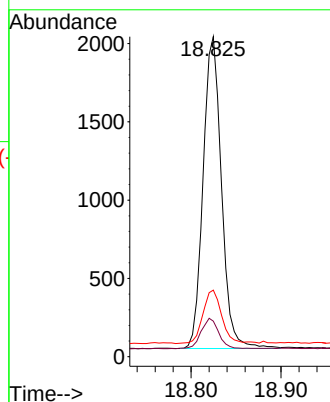
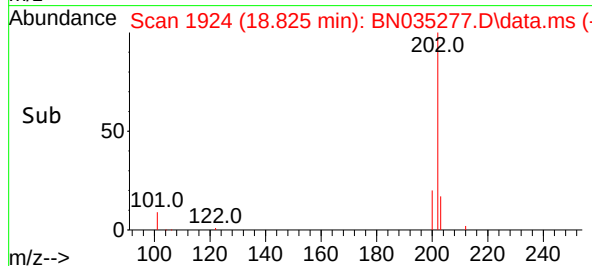
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC0.1



Tgt Ion:202 Resp: 2840  
Ion Ratio Lower Upper  
202 100  
101 9.6 7.6 11.4  
203 17.6 13.8 20.8

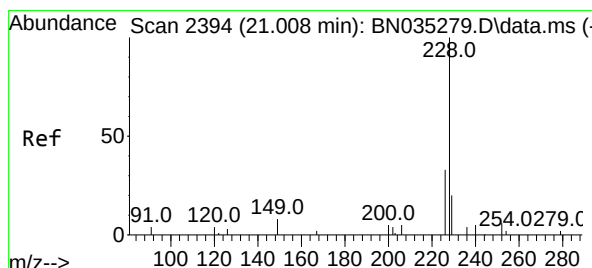
Manual Integrations  
APPROVED

Reviewed By :Yogesh  
Patel



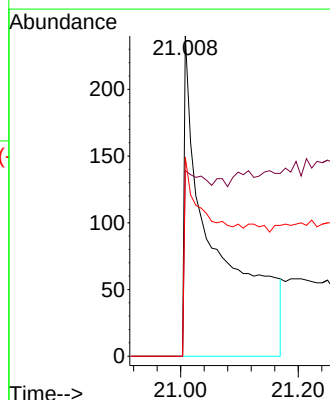
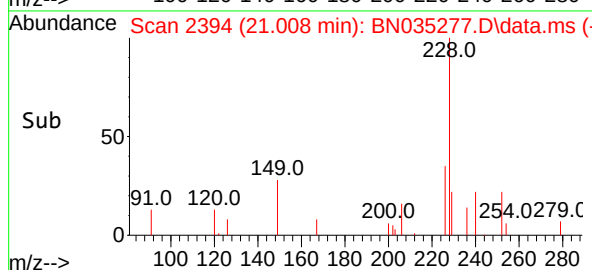
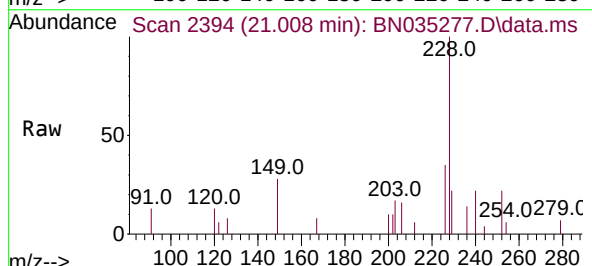
11/27/2024  
Supervised By :mohammad  
ahmed

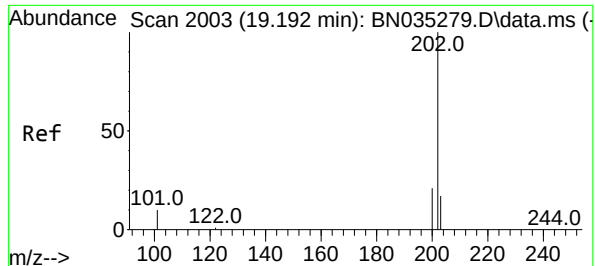
11/27/2024



#29  
Chrysene-d12  
Concen: 0.400 ng  
RT: 21.008 min Scan# 2394  
Delta R.T. -0.000 min  
Lab File: BN035277.D  
Acq: 25 Nov 2024 10:16

Tgt Ion:240 Resp: 834  
Ion Ratio Lower Upper  
240 100  
120 57.9 54.9 82.3  
236 62.1 54.0 81.0





#30

Pyrene

Concen: 1.019 ng

RT: 19.192 min Scan# 2003

Delta R.T. -0.000 min

Lab File: BN035277.D

Acq: 25 Nov 2024 10:16

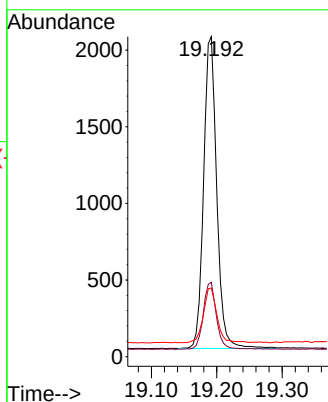
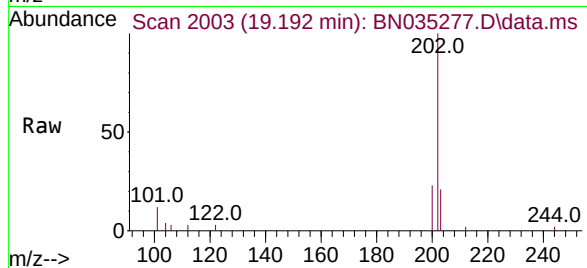
Instrument :

BNA\_N

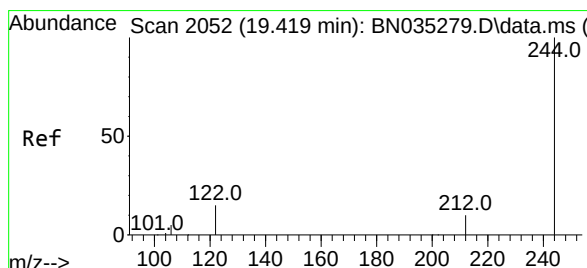
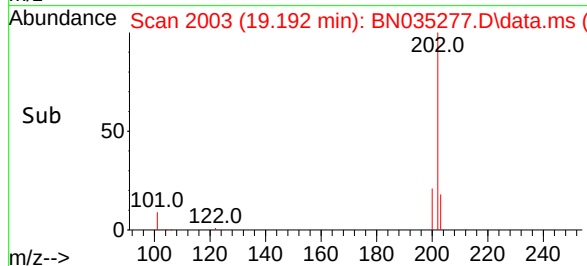
ClientSampleId :

SSTDICC0.1

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 202   | Resp: | 2830  |
| Ion      | Ratio | Lower | Upper |
| 202      | 100   |       |       |
| 200      | 21.3  | 16.8  | 25.2  |
| 203      | 17.9  | 14.4  | 21.6  |

Manual Integrations  
APPROVEDReviewed By :Yogesh  
Patel11/27/2024  
Supervised By :mohammad  
ahmed

11/27/2024



#31

Terphenyl-d14

Concen: 0.749 ng

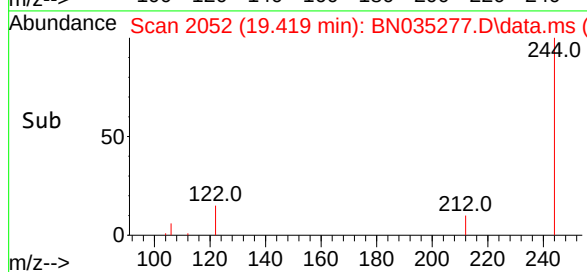
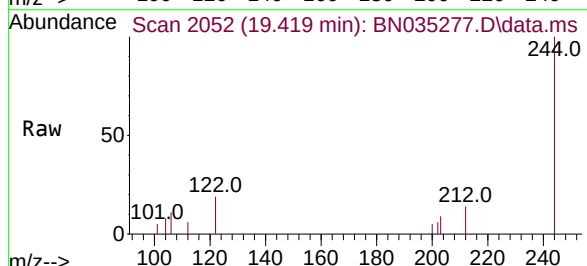
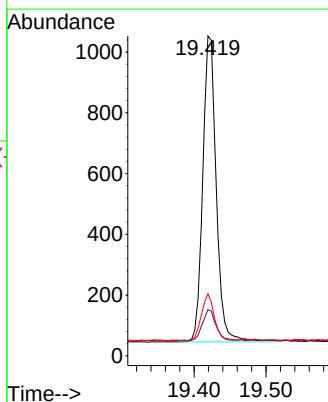
RT: 19.419 min Scan# 2052

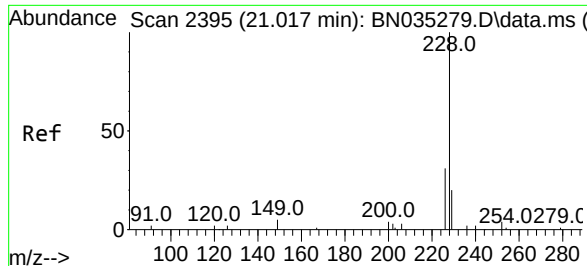
Delta R.T. -0.000 min

Lab File: BN035277.D

Acq: 25 Nov 2024 10:16

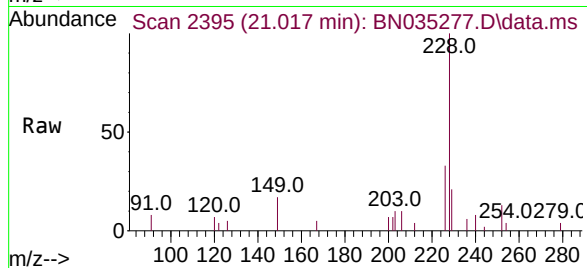
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 244   | Resp: | 1310  |
| Ion      | Ratio | Lower | Upper |
| 244      | 100   |       |       |
| 212      | 14.4  | 9.4   | 14.0# |
| 122      | 19.4  | 13.0  | 19.4  |





#32  
Benzo(a)anthracene  
Concen: 0.933 ng  
RT: 21.017 min Scan# 2109  
Delta R.T. -0.000 min  
Lab File: BN035277.D  
Acq: 25 Nov 2024 10:16

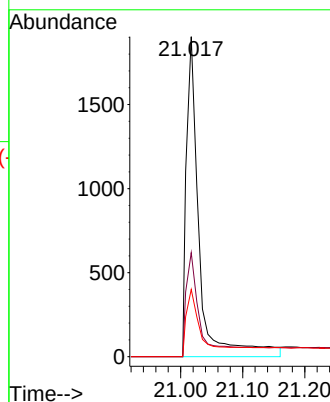
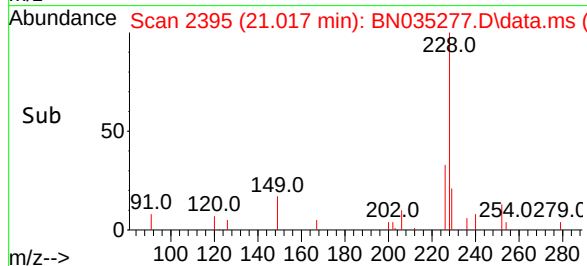
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC0.1



Tgt Ion:228 Resp: 2709  
Ion Ratio Lower Upper  
228 100  
226 32.5 24.7 37.1  
229 21.0 16.2 24.2

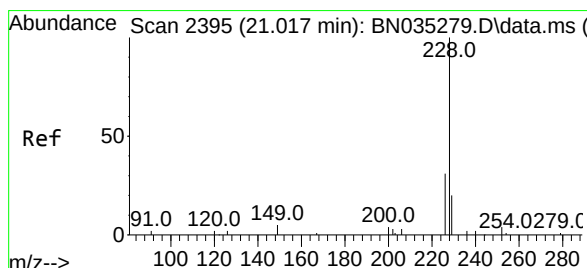
Manual Integrations  
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Reviewed By :Yogesh  
Patel



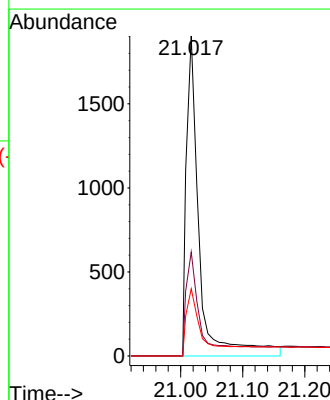
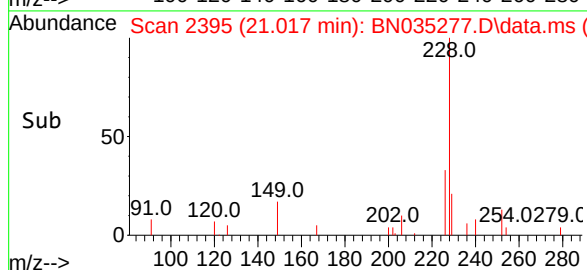
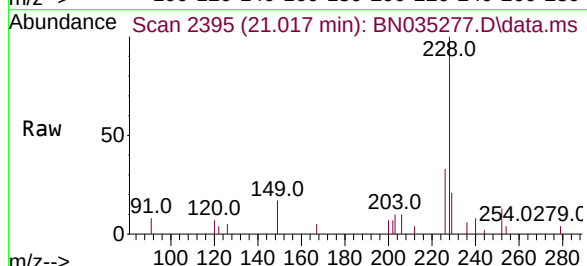
11/27/2024  
Supervised By :mohammad  
ahmed

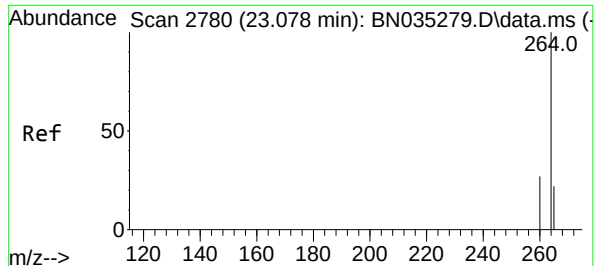
11/27/2024



#33  
Chrysene  
Concen: 0.942 ng  
RT: 21.017 min Scan# 2395  
Delta R.T. -0.000 min  
Lab File: BN035277.D  
Acq: 25 Nov 2024 10:16

Tgt Ion:228 Resp: 2709  
Ion Ratio Lower Upper  
228 100  
226 32.5 24.7 37.1  
229 21.0 16.2 24.2





#35

Perylene-d12

Concen: 0.400 ng

RT: 23.081 min Scan# 21

Delta R.T. 0.003 min

Lab File: BN035277.D

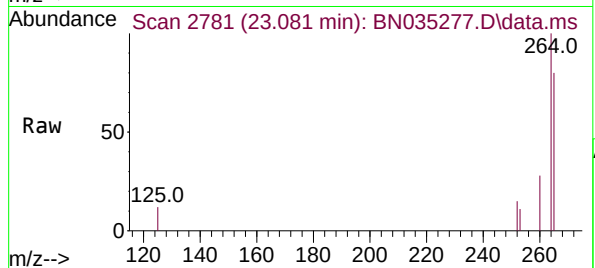
Acq: 25 Nov 2024 10:16

Instrument :

BNA\_N

ClientSampleId :

SSTDICC0.1



Tgt Ion:264 Resp: 5298

Ion Ratio Lower Upper

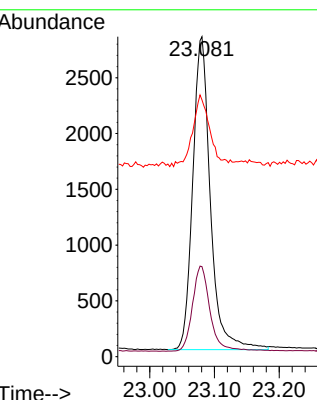
264 100

260 28.1 22.3 33.5

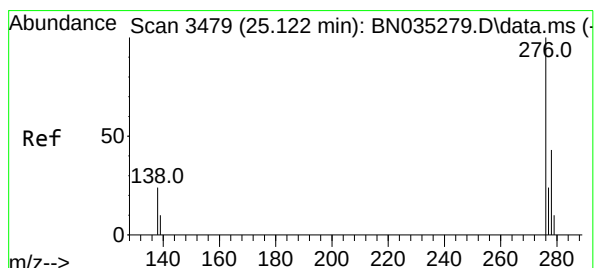
265 80.3 68.6 103.0

Manual Integrations

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Reviewed By :Yogesh  
Patel11/27/2024  
Supervised By :mohammad  
ahmed

11/27/2024



#36

Indeno(1,2,3-cd)pyrene

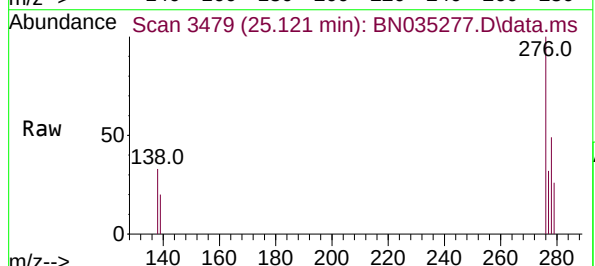
Concen: 0.086 ng

RT: 25.121 min Scan# 3479

Delta R.T. -0.000 min

Lab File: BN035277.D

Acq: 25 Nov 2024 10:16



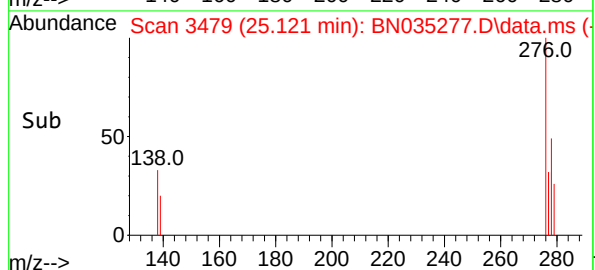
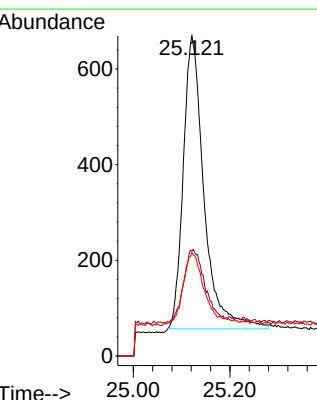
Tgt Ion:276 Resp: 1824

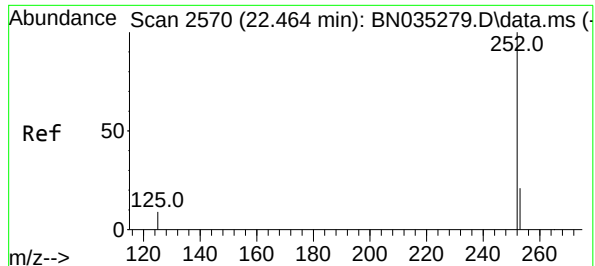
Ion Ratio Lower Upper

276 100

138 21.8 18.8 28.2

277 22.8 18.2 27.4





#37

Benzo(b)fluoranthene

Concen: 0.112 ng

RT: 22.464 min Scan# 2570

Delta R.T. -0.000 min

Lab File: BN035277.D

Acq: 25 Nov 2024 10:16

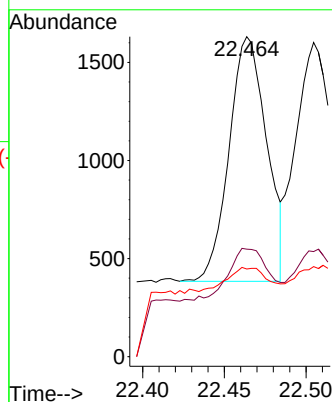
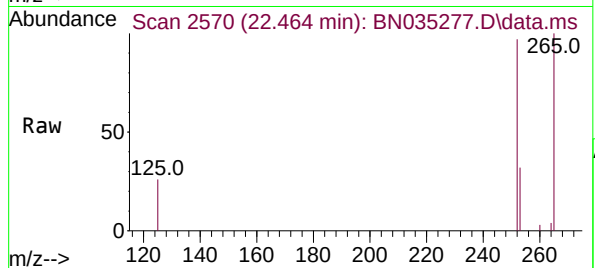
Instrument :

BNA\_N

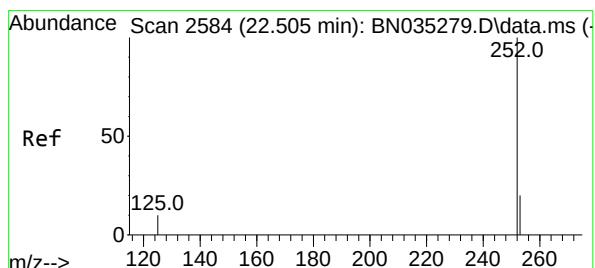
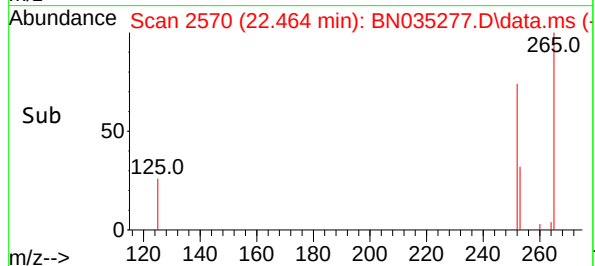
ClientSampleId :

SSTDICC0.1

|             |       |           |
|-------------|-------|-----------|
| Tgt Ion:252 | Resp: | 199       |
| Ion Ratio   | Lower | Upper     |
| 252         | 100   |           |
| 253         | 33.6  | 20.2 30.2 |
| 125         | 27.4  | 12.0 18.0 |

Manual Integrations  
APPROVEDReviewed By :Yogesh  
Patel11/27/2024  
Supervised By :mohammad  
ahmed

11/27/2024



#38

Benzo(k)fluoranthene

Concen: 0.116 ng

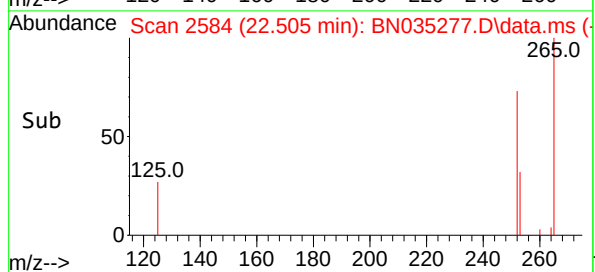
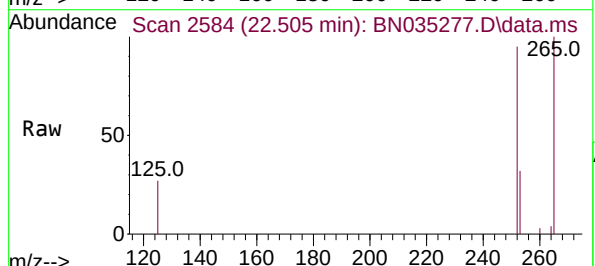
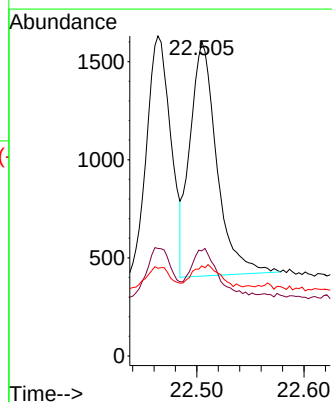
RT: 22.505 min Scan# 2584

Delta R.T. -0.000 min

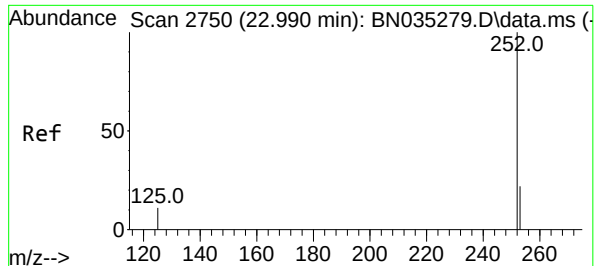
Lab File: BN035277.D

Acq: 25 Nov 2024 10:16

|             |       |            |
|-------------|-------|------------|
| Tgt Ion:252 | Resp: | 2076       |
| Ion Ratio   | Lower | Upper      |
| 252         | 100   |            |
| 253         | 33.5  | 20.1 30.1# |
| 125         | 28.7  | 12.7 19.1# |







#39

Benzo(a)pyrene

Concen: 0.101 ng

RT: 22.987 min Scan# 21

Delta R.T. -0.003 min

Lab File: BN035277.D

Acq: 25 Nov 2024 10:16

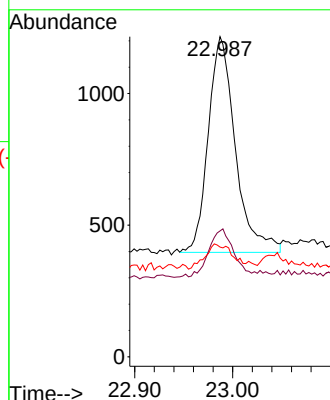
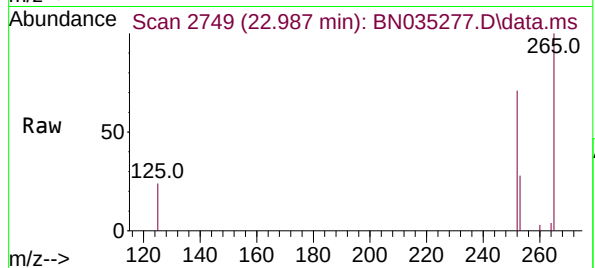
Instrument :

BNA\_N

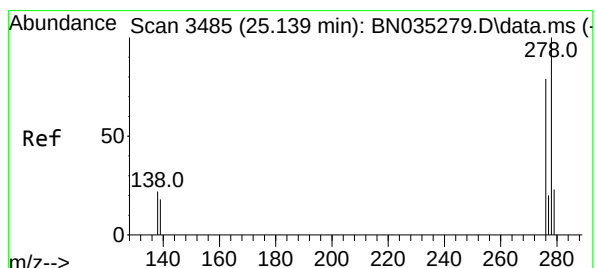
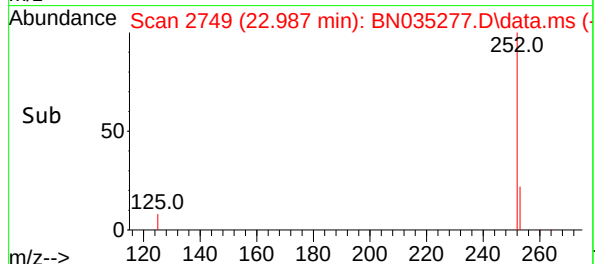
ClientSampleId :

SSTDICC0.1

|             |       |           |
|-------------|-------|-----------|
| Tgt Ion:252 | Resp: | 1578      |
| Ion Ratio   | Lower | Upper     |
| 252         | 100   |           |
| 253         | 39.3  | 22.3 33.5 |
| 125         | 34.3  | 15.3 22.9 |

**Manual Integrations  
APPROVED**Reviewed By :Yogesh  
Patel11/27/2024  
Supervised By :mohammad  
ahmed

11/27/2024



#40

Dibenzo(a,h)anthracene

Concen: 0.076 ng

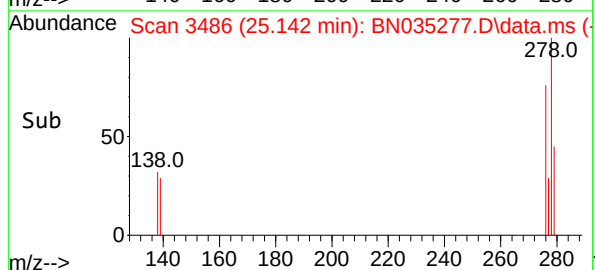
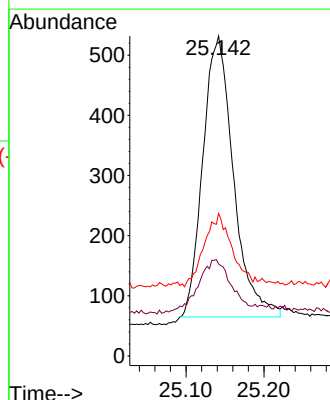
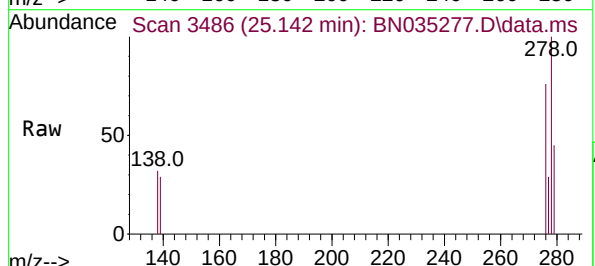
RT: 25.142 min Scan# 3486

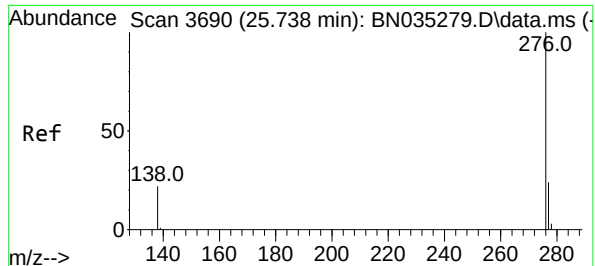
Delta R.T. 0.003 min

Lab File: BN035277.D

Acq: 25 Nov 2024 10:16

|             |       |           |
|-------------|-------|-----------|
| Tgt Ion:278 | Resp: | 1273      |
| Ion Ratio   | Lower | Upper     |
| 278         | 100   |           |
| 139         | 28.8  | 17.0 25.6 |
| 279         | 44.5  | 23.0 34.4 |





#41

Benzo(g,h,i)perylene

Concen: 0.096 ng

RT: 25.738 min Scan# 3690

Delta R.T. -0.000 min

Lab File: BN035277.D

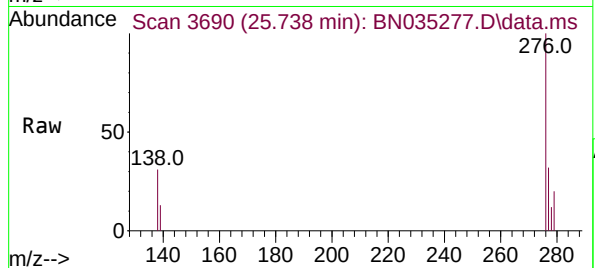
Acq: 25 Nov 2024 10:16

Instrument :

BNA\_N

ClientSampleId :

SSTDICC0.1



Tgt Ion:276 Resp: 1710

Ion Ratio Lower Upper

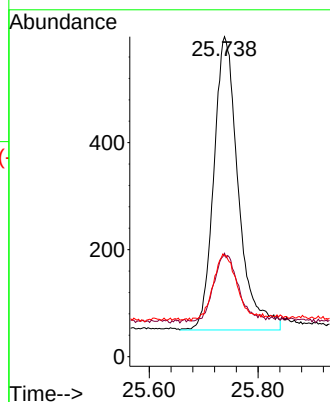
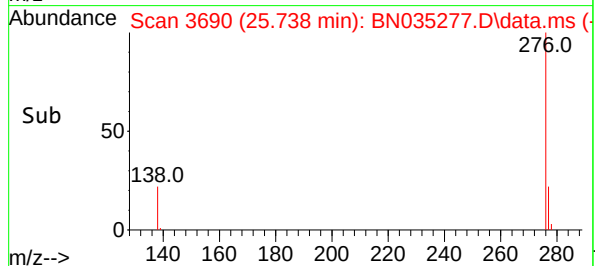
276 100

277 32.3 21.1 31.7

138 31.4 19.8 29.8

Manual Integrations

APPROVED

Reviewed By :Yogesh  
Patel

11/27/2024

Supervised By :mohammad  
ahmed

11/27/2024

Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN112524\  
 Data File : BN035278.D  
 Acq On : 25 Nov 2024 10:52  
 Operator : RC/JU  
 Sample : SSTDICC0.2  
 Misc :  
 ALS Vial : 53 Sample Multiplier: 1

Instrument :  
 BNA\_N  
 ClientSampleId :  
 SSTDICC0.2

Manual Integrations  
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Reviewed By :Yogesh Patel 11/27/2024  
 Supervised By :mohammad ahmed 11/27/2024

Quant Time: Nov 25 14:18:27 2024  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\8270-SIM-BN112524.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Mon Nov 25 14:16:35 2024  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc  | Units | Dev(Min) |
|-------------------------------|--------|------|----------|-------|-------|----------|
| -----                         |        |      |          |       |       |          |
| Internal Standards            |        |      |          |       |       |          |
| 1) 1,4-Dichlorobenzene-d4     | 7.315  | 152  | 2248     | 0.400 | ng    | 0.00     |
| 7) Naphthalene-d8             | 10.063 | 136  | 5670     | 0.400 | ng    | 0.00     |
| 13) Acenaphthene-d10          | 13.976 | 164  | 3200     | 0.400 | ng    | 0.00     |
| 19) Phenanthrene-d10          | 16.734 | 188  | 7531     | 0.400 | ng    | 0.00     |
| 29) Chrysene-d12              | 21.008 | 240  | 797      | 0.400 | ng    | 0.00     |
| 35) Perylene-d12              | 23.084 | 264  | 4527     | 0.400 | ng    | 0.00     |
| System Monitoring Compounds   |        |      |          |       |       |          |
| 4) 2-Fluorophenol             | 4.975  | 112  | 891      | 0.156 | ng    | 0.00     |
| 5) Phenol-d6                  | 6.520  | 99   | 1264     | 0.177 | ng    | 0.00     |
| 8) Nitrobenzene-d5            | 8.450  | 82   | 771m     | 0.156 | ng    | 0.00     |
| 11) 2-Methylnaphthalene-d10   | 11.666 | 152  | 1506     | 0.149 | ng    | 0.00     |
| 14) 2,4,6-Tribromophenol      | 15.484 | 330  | 279      | 0.121 | ng    | 0.00     |
| 15) 2-Fluorobiphenyl          | 12.608 | 172  | 679      | 0.052 | ng    | 0.00     |
| 27) Fluoranthene-d10          | 18.792 | 212  | 3625     | 0.157 | ng    | 0.00     |
| 31) Terphenyl-d14             | 19.424 | 244  | 2197     | 1.314 | ng    | 0.00     |
| Target Compounds              |        |      |          |       |       |          |
|                               |        |      |          |       |       | Qvalue   |
| 2) 1,4-Dioxane                | 3.003  | 88   | 310      | 0.152 | ng    | # 75     |
| 3) n-Nitrosodimethylamine     | 3.299  | 42   | 314      | 0.165 | ng    | # 82     |
| 6) bis(2-Chloroethyl)ether    | 6.766  | 93   | 978      | 0.182 | ng    | 98       |
| 9) Naphthalene                | 10.116 | 128  | 2990     | 0.202 | ng    | 96       |
| 10) Hexachlorobutadiene       | 10.415 | 225  | 818      | 0.189 | ng    | # 98     |
| 12) 2-Methylnaphthalene       | 11.742 | 142  | 1929     | 0.177 | ng    | 97       |
| 16) Acenaphthylene            | 13.688 | 152  | 2991     | 0.219 | ng    | 99       |
| 17) Acenaphthene              | 14.040 | 154  | 1852     | 0.207 | ng    | 97       |
| 18) Fluorene                  | 15.035 | 166  | 2587     | 0.196 | ng    | 98       |
| 20) 4,6-Dinitro-2-methylph... | 15.131 | 198  | 102      | 0.065 | ng    | # 49     |
| 21) 4-Bromophenyl-phenylether | 15.952 | 248  | 888      | 0.185 | ng    | # 70     |
| 22) Hexachlorobenzene         | 16.051 | 284  | 1264     | 0.254 | ng    | 98       |
| 23) Atrazine                  | 16.237 | 200  | 357      | 0.083 | ng    | 92       |
| 24) Pentachlorophenol         | 16.399 | 266  | 252      | 0.108 | ng    | 97       |
| 25) Phenanthrene              | 16.783 | 178  | 4155     | 0.210 | ng    | 100      |
| 26) Anthracene                | 16.870 | 178  | 3384     | 0.186 | ng    | 99       |
| 28) Fluoranthene              | 18.825 | 202  | 4828     | 0.177 | ng    | 100      |
| 30) Pyrene                    | 19.192 | 202  | 4697     | 1.770 | ng    | 99       |
| 32) Benzo(a)anthracene        | 21.017 | 228  | 4459     | 1.607 | ng    | 99       |
| 33) Chrysene                  | 21.017 | 228  | 4459     | 1.622 | ng    | 99       |
| 34) Bis(2-ethylhexyl)phtha... | 21.017 | 149  | 696      | 0.478 | ng    | # 92     |
| 36) Indeno(1,2,3-cd)pyrene    | 25.121 | 276  | 3191     | 0.177 | ng    | 99       |
| 37) Benzo(b)fluoranthene      | 22.467 | 252  | 3513     | 0.231 | ng    | # 90     |
| 38) Benzo(k)fluoranthene      | 22.505 | 252  | 3588     | 0.235 | ng    | # 90     |
| 39) Benzo(a)pyrene            | 22.990 | 252  | 2673     | 0.199 | ng    | # 87     |
| 40) Dibenzo(a,h)anthracene    | 25.142 | 278  | 2328     | 0.163 | ng    | # 90     |
| 41) Benzo(g,h,i)perylene      | 25.741 | 276  | 2967     | 0.195 | ng    | 95       |
| -----                         |        |      |          |       |       |          |

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

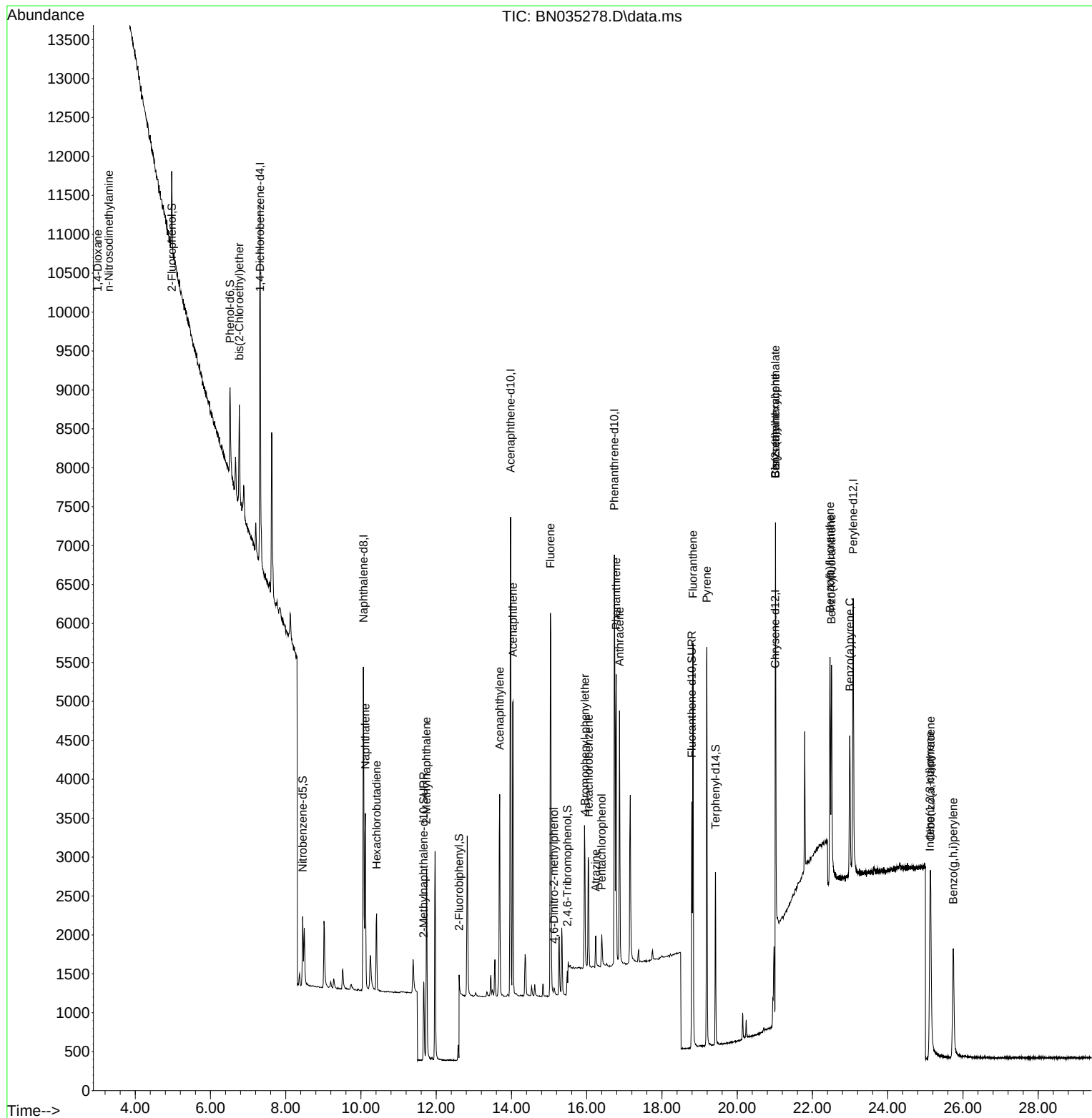
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Data File : BN035278.D  
Acq On : 25 Nov 2024 10:52  
Operator : RC/JU  
Sample : SSTDICC0.2  
Misc :  
ALS Vial : 53 Sample Multiplier: 1

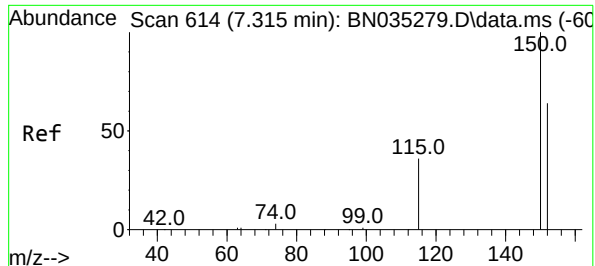
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ClientSampleId :  
SSTDICC0.2

Quant Time: Nov 25 14:18:27 2024  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\8270-SIM-BN112524.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Mon Nov 25 14:16:35 2024  
Response via : Initial Calibration

Manual Integrations  
APPROVED

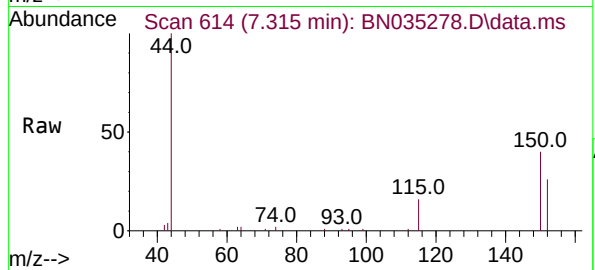
Reviewed By :Yogesh Patel 11/27/2024  
Supervised By :mohammad ahmed 11/27/2024





#1  
1,4-Dichlorobenzene-d4  
Concen: 0.400 ng  
RT: 7.315 min Scan# 614  
Delta R.T. -0.000 min  
Lab File: BN035278.D  
Acq: 25 Nov 2024 10:52

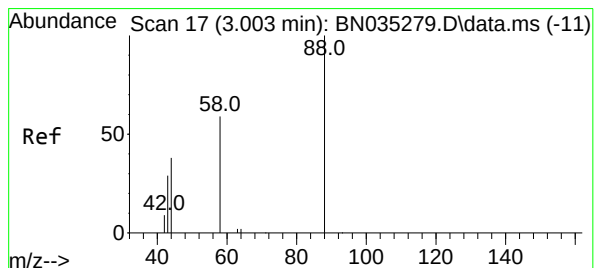
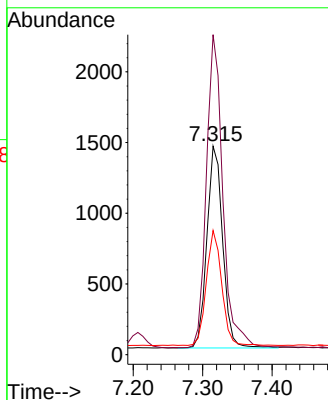
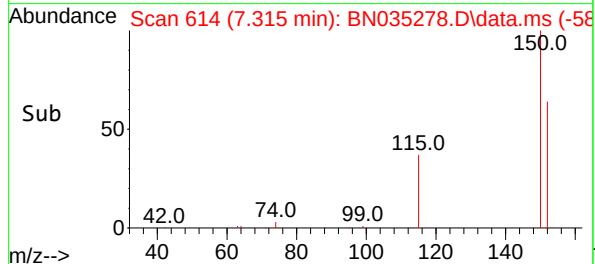
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC0.2



Tgt Ion: 152 Resp: 224  
Ion Ratio Lower Upper  
152 100  
150 153.5 124.5 186.7  
115 59.6 47.8 71.8

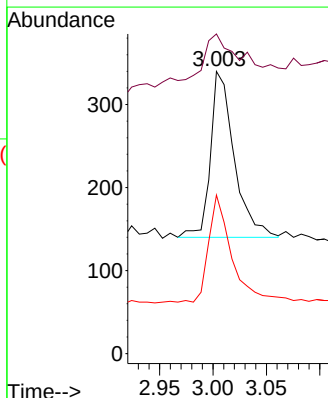
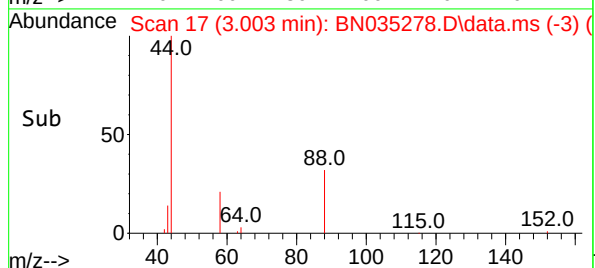
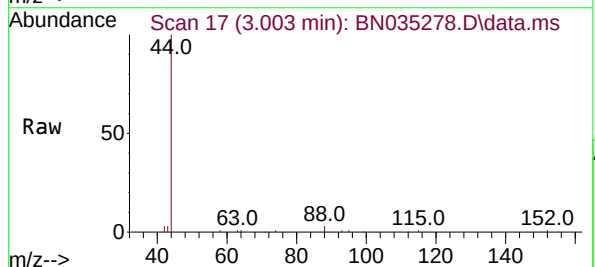
Manual Integrations  
APPROVED

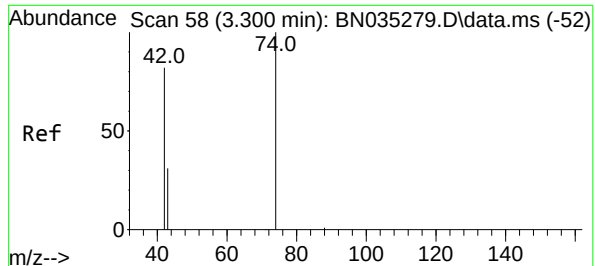
Reviewed By :Yogesh Patel 11/27/2024  
Supervised By :mohammad ahmed 11/27/2024



#2  
1,4-Dioxane  
Concen: 0.152 ng  
RT: 3.003 min Scan# 17  
Delta R.T. -0.000 min  
Lab File: BN035278.D  
Acq: 25 Nov 2024 10:52

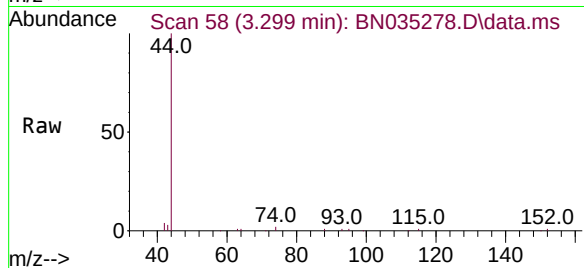
Tgt Ion: 88 Resp: 310  
Ion Ratio Lower Upper  
88 100  
43 91.0 48.1 72.1#  
58 65.5 46.9 70.3





#3  
n-Nitrosodimethylamine  
Concen: 0.165 ng  
RT: 3.299 min Scan# 58  
Delta R.T. -0.000 min  
Lab File: BN035278.D  
Acq: 25 Nov 2024 10:52

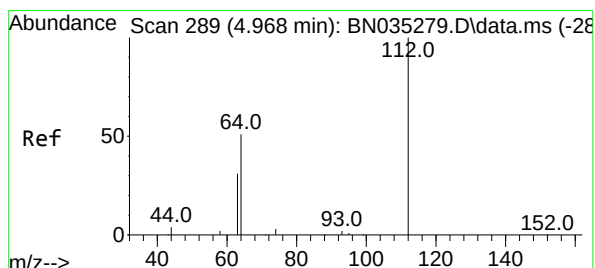
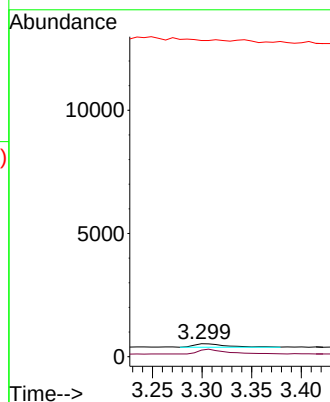
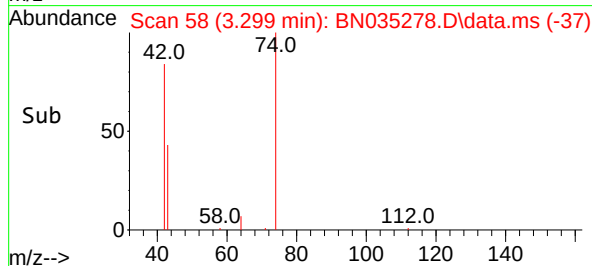
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC0.2



Tgt Ion: 42 Resp: 314  
Ion Ratio Lower Upper  
42 100  
74 125.8 102.7 154.1  
44 0.0 34.1 51.1

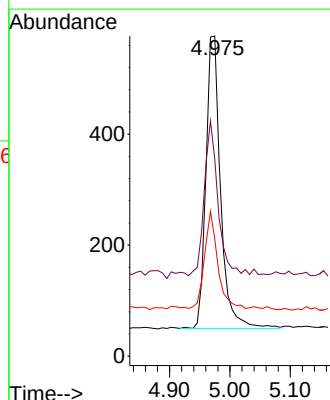
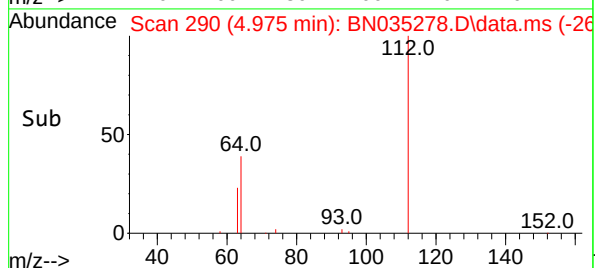
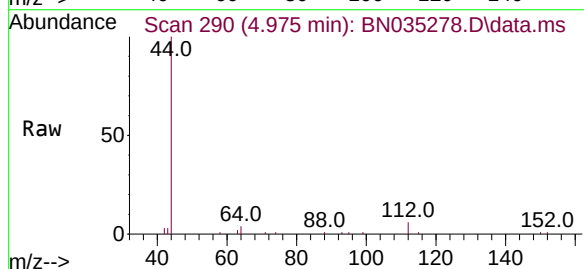
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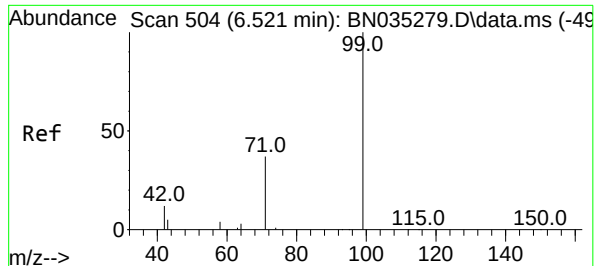
Reviewed By :Yogesh Patel 11/27/2024  
Supervised By :mohammad ahmed 11/27/2024



#4  
2-Fluorophenol  
Concen: 0.156 ng  
RT: 4.975 min Scan# 290  
Delta R.T. 0.007 min  
Lab File: BN035278.D  
Acq: 25 Nov 2024 10:52

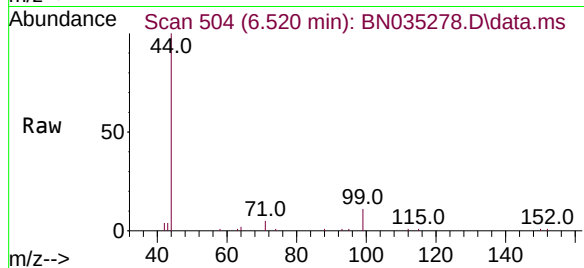
Tgt Ion:112 Resp: 891  
Ion Ratio Lower Upper  
112 100  
64 50.3 40.4 60.6  
63 29.5 23.8 35.8





#5  
Phenol-d6  
Concen: 0.177 ng  
RT: 6.520 min Scan# 504  
Delta R.T. -0.000 min  
Lab File: BN035278.D  
Acq: 25 Nov 2024 10:52

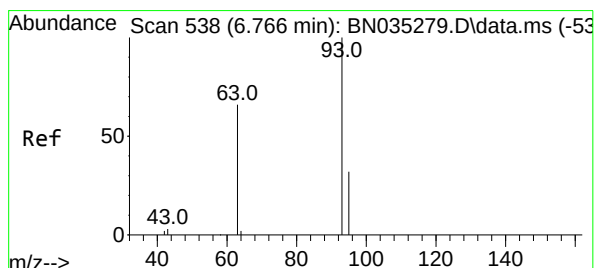
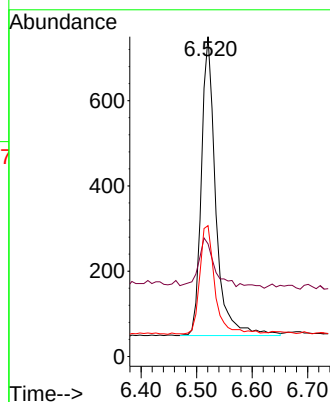
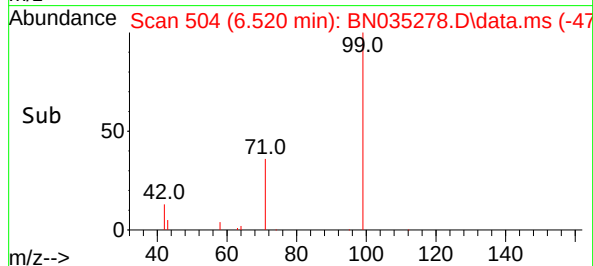
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC0.2



Tgt Ion: 99 Resp: 1264  
Ion Ratio Lower Upper  
99 100  
42 20.3 12.8 19.2  
71 37.8 31.4 47.2

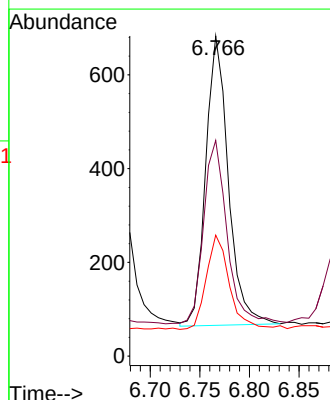
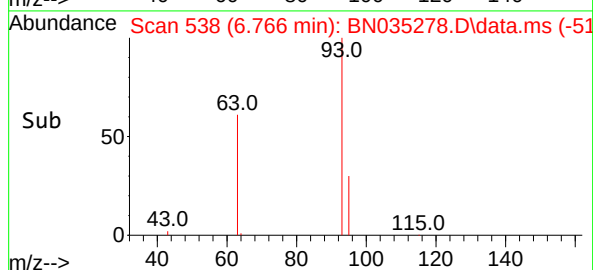
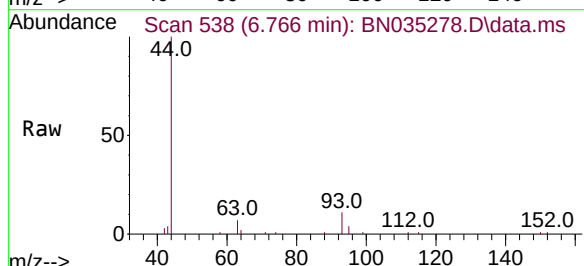
Manual Integrations  
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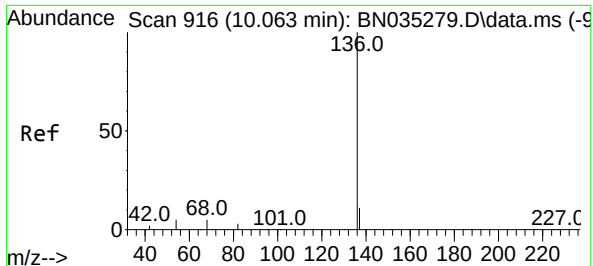
Reviewed By :Yogesh Patel 11/27/2024  
Supervised By :mohammad ahmed 11/27/2024



#6  
bis(2-Chloroethyl)ether  
Concen: 0.182 ng  
RT: 6.766 min Scan# 538  
Delta R.T. -0.000 min  
Lab File: BN035278.D  
Acq: 25 Nov 2024 10:52

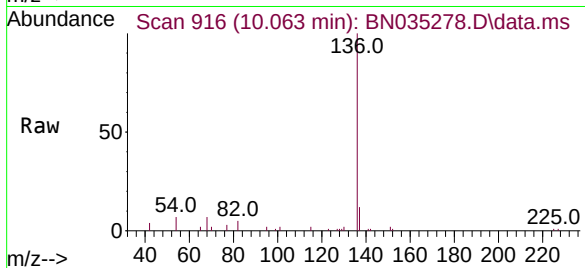
Tgt Ion: 93 Resp: 978  
Ion Ratio Lower Upper  
93 100  
63 66.0 52.3 78.5  
95 33.7 25.5 38.3





#7  
Naphthalene-d8  
Concen: 0.400 ng  
RT: 10.063 min Scan# 916  
Delta R.T. -0.000 min  
Lab File: BN035278.D  
Acq: 25 Nov 2024 10:52

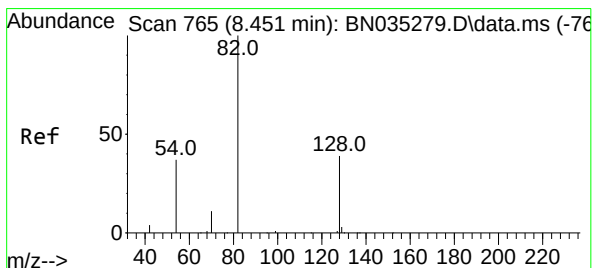
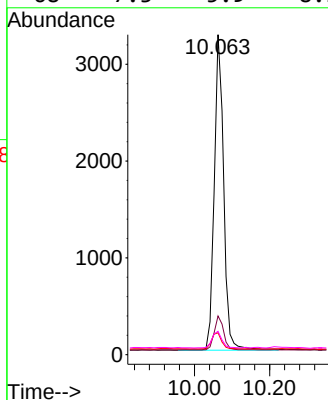
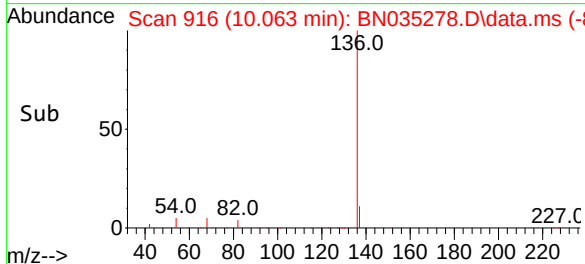
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC0.2



Tgt Ion: 136 Resp: 5670  
Ion Ratio Lower Upper  
136 100  
137 12.1 9.7 14.5  
54 6.8 5.3 7.9  
68 7.3 5.9 8.9

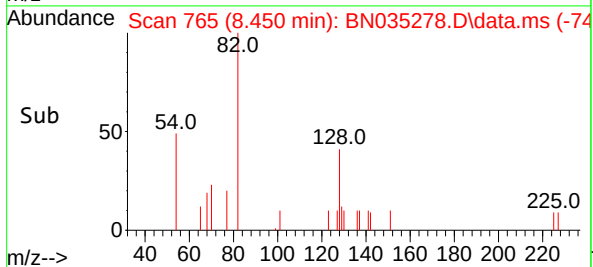
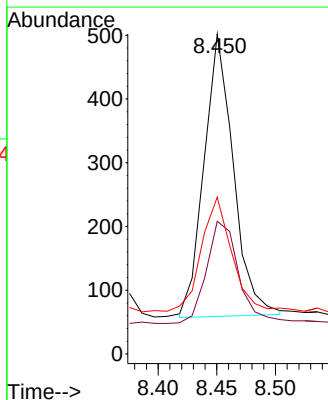
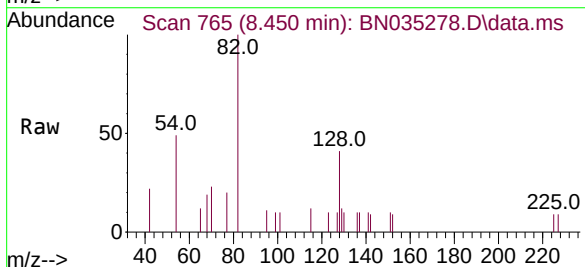
Manual Integrations  
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Reviewed By :Yogesh Patel 11/27/2024  
Supervised By :mohammad ahmed 11/27/2024

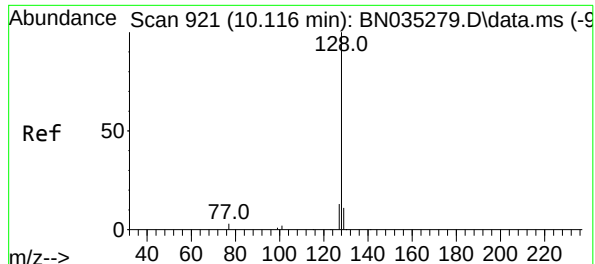


#8  
Nitrobenzene-d5  
Concen: 0.156 ng m  
RT: 8.450 min Scan# 765  
Delta R.T. -0.000 min  
Lab File: BN035278.D  
Acq: 25 Nov 2024 10:52

Tgt Ion: 82 Resp: 771  
Ion Ratio Lower Upper  
82 100  
128 41.4 33.0 49.4  
54 49.0 33.3 49.9







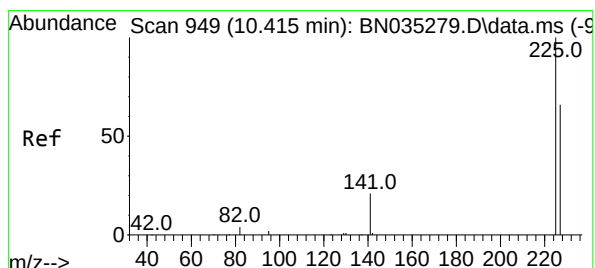
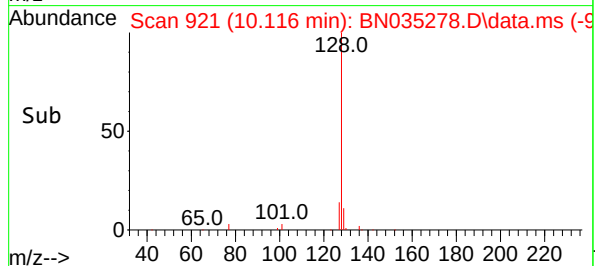
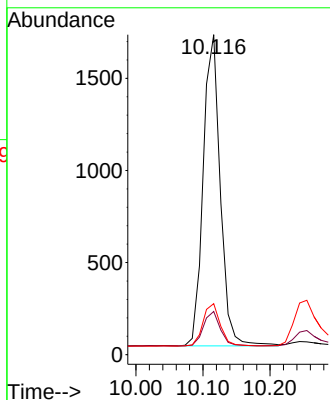
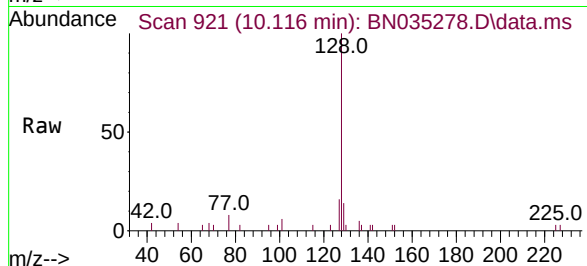
#9  
Naphthalene  
Concen: 0.202 ng  
RT: 10.116 min Scan# 921  
Delta R.T. -0.000 min  
Lab File: BN035278.D  
Acq: 25 Nov 2024 10:52

Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC0.2

Tgt Ion:128 Resp: 2990  
Ion Ratio Lower Upper  
128 100  
129 13.5 9.6 14.4  
127 15.9 11.3 16.9

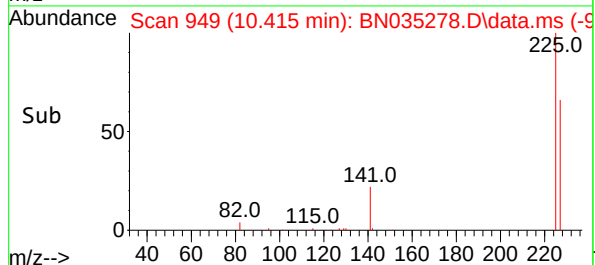
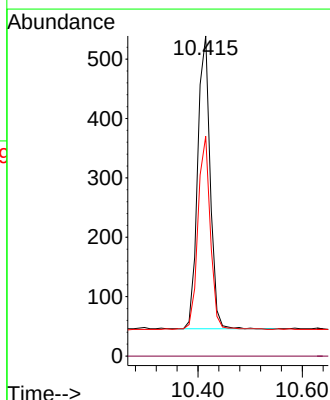
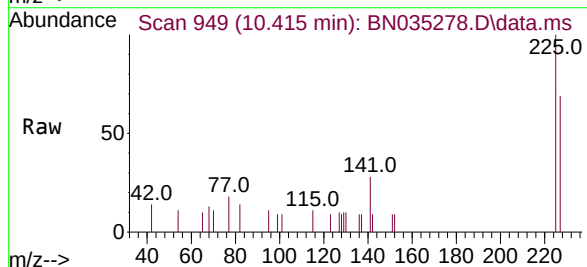
Manual Integrations  
APPROVED

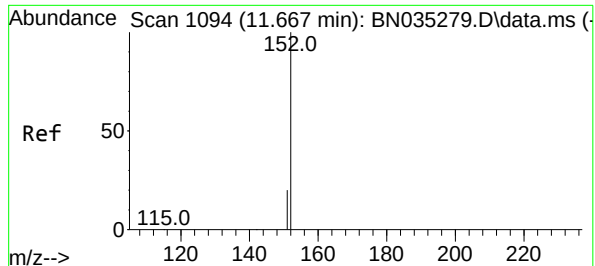
Reviewed By :Yogesh Patel 11/27/2024  
Supervised By :mohammad ahmed 11/27/2024



#10  
Hexachlorobutadiene  
Concen: 0.189 ng  
RT: 10.415 min Scan# 949  
Delta R.T. -0.000 min  
Lab File: BN035278.D  
Acq: 25 Nov 2024 10:52

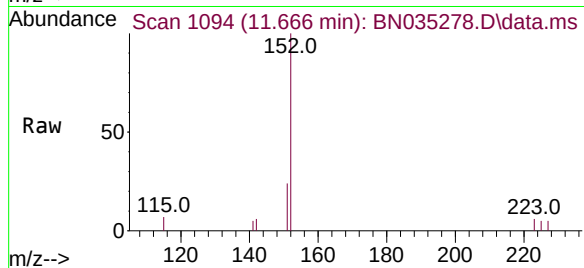
Tgt Ion:225 Resp: 818  
Ion Ratio Lower Upper  
225 100  
223 0.0 0.0 0.0  
227 65.4 51.3 76.9





#11  
2-Methylnaphthalene-d10  
Concen: 0.149 ng  
RT: 11.666 min Scan# 1094  
Delta R.T. -0.000 min  
Lab File: BN035278.D  
Acq: 25 Nov 2024 10:52

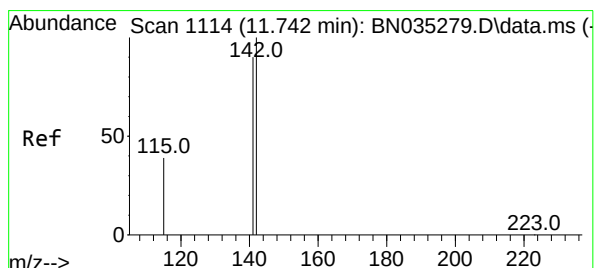
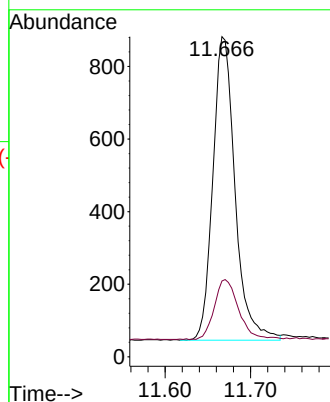
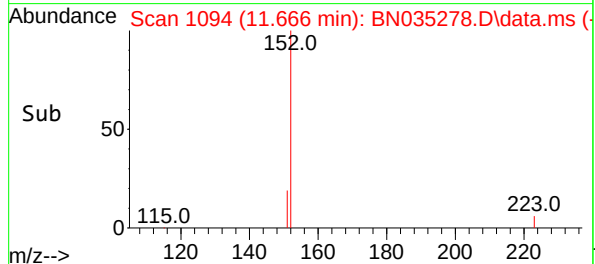
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC0.2



Tgt Ion:152 Resp: 1500  
Ion Ratio Lower Upper  
152 100  
151 22.0 17.2 25.8

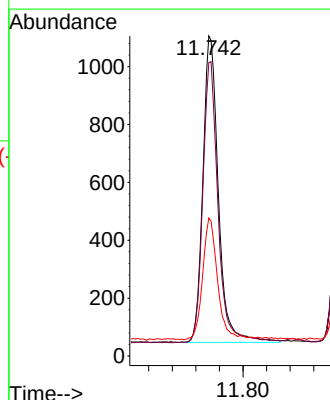
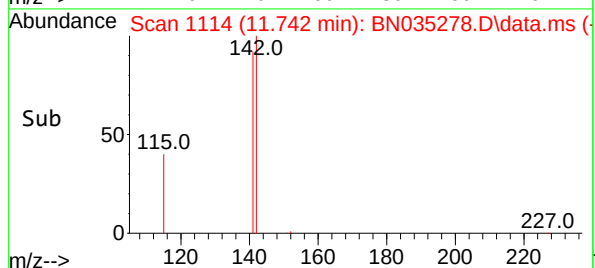
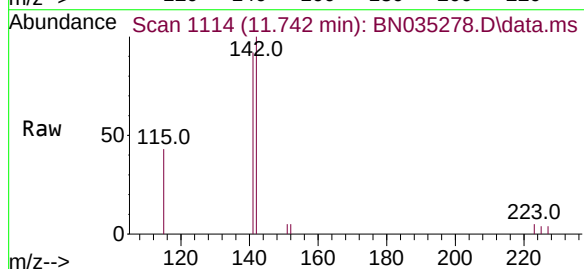
Manual Integrations  
APPROVED

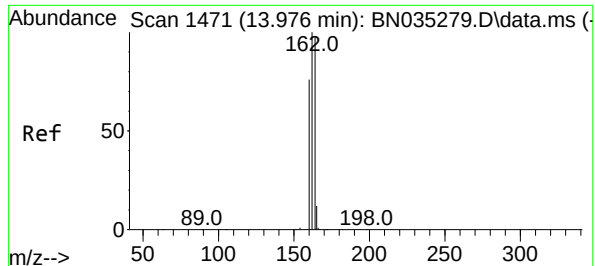
Reviewed By :Yogesh Patel 11/27/2024  
Supervised By :mohammad ahmed 11/27/2024



#12  
2-Methylnaphthalene  
Concen: 0.177 ng  
RT: 11.742 min Scan# 1114  
Delta R.T. -0.000 min  
Lab File: BN035278.D  
Acq: 25 Nov 2024 10:52

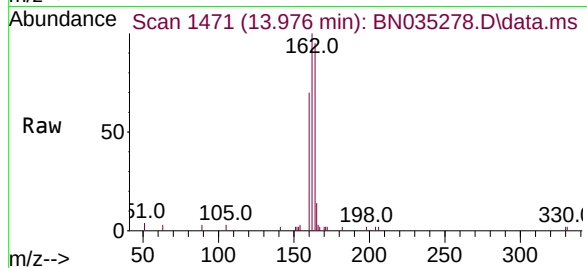
Tgt Ion:142 Resp: 1929  
Ion Ratio Lower Upper  
142 100  
141 91.7 71.8 107.8  
115 43.1 32.6 49.0





#13  
Acenaphthene-d10  
Concen: 0.400 ng  
RT: 13.976 min Scan# 1471  
Delta R.T. -0.000 min  
Lab File: BN035278.D  
Acq: 25 Nov 2024 10:52

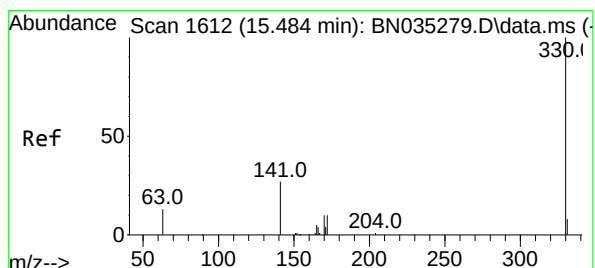
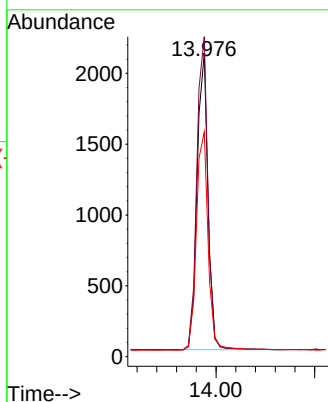
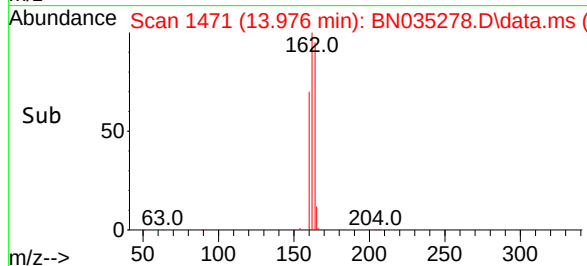
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC0.2



Tgt Ion:164 Resp: 3200  
Ion Ratio Lower Upper  
164 100  
162 105.6 82.0 123.0  
160 74.2 63.0 94.4

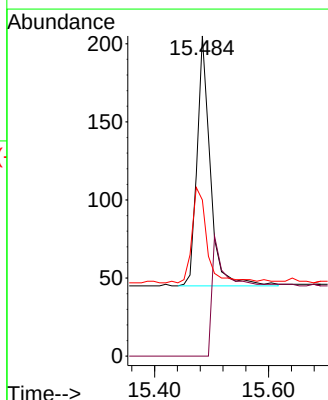
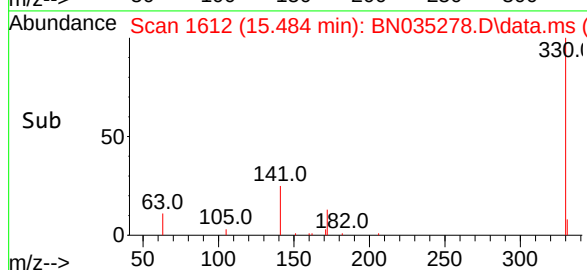
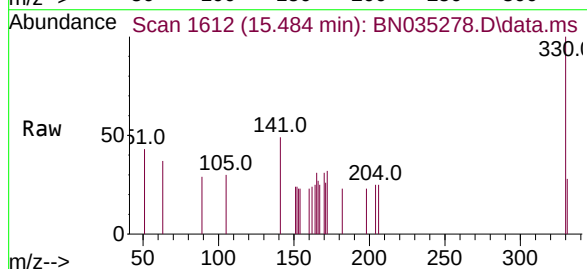
Manual Integrations  
APPROVED

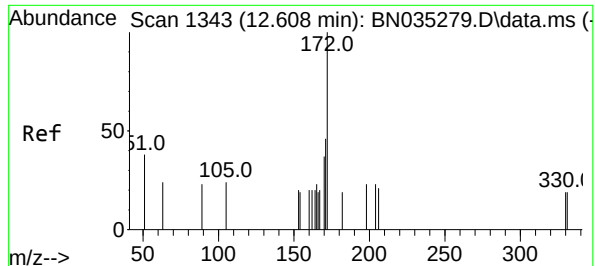
Reviewed By :Yogesh Patel 11/27/2024  
Supervised By :mohammad ahmed 11/27/2024



#14  
2,4,6-Tribromophenol  
Concen: 0.121 ng  
RT: 15.484 min Scan# 1612  
Delta R.T. -0.000 min  
Lab File: BN035278.D  
Acq: 25 Nov 2024 10:52

Tgt Ion:330 Resp: 279  
Ion Ratio Lower Upper  
330 100  
332 0.0 0.0 0.0  
141 43.4 32.4 48.6





#15  
2-Fluorobiphenyl  
Concen: 0.052 ng  
RT: 12.608 min Scan# 1343  
Delta R.T. -0.000 min  
Lab File: BN035278.D  
Acq: 25 Nov 2024 10:52

Instrument :

BNA\_N

ClientSampleId :

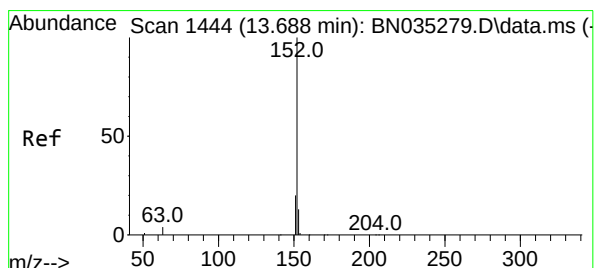
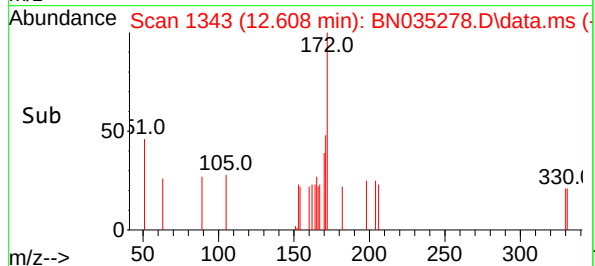
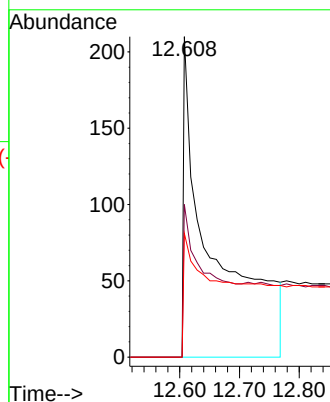
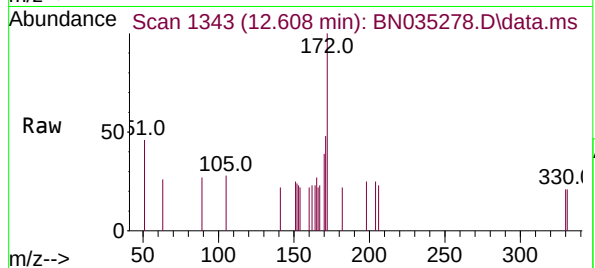
SSTDICC0.2

Tgt Ion:172 Resp: 679  
Ion Ratio Lower Upper  
172 100  
171 47.6 36.6 55.0  
170 38.6 29.7 44.5

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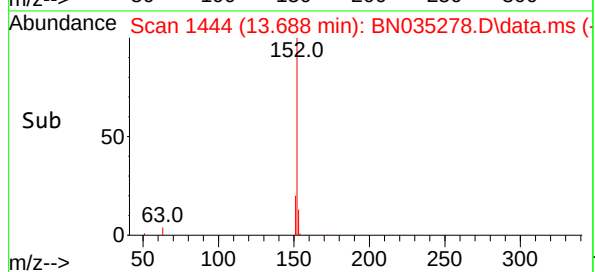
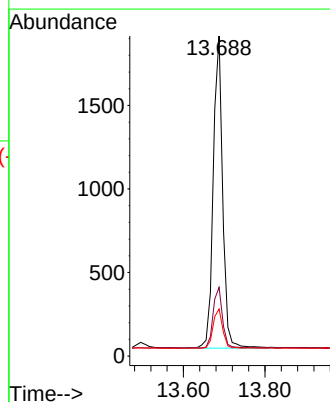
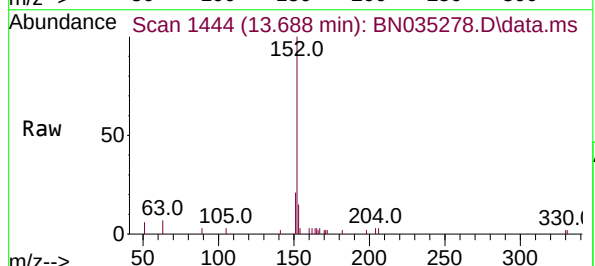
APPROVED

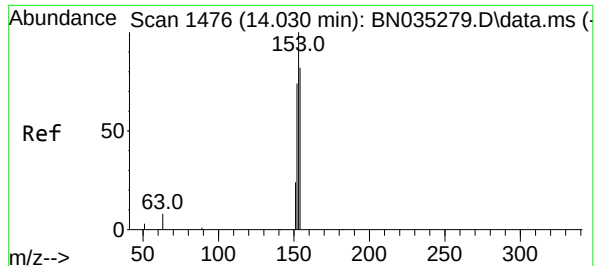
Reviewed By :Yogesh Patel 11/27/2024  
Supervised By :mohammad ahmed 11/27/2024



#16  
Acenaphthylene  
Concen: 0.219 ng  
RT: 13.688 min Scan# 1444  
Delta R.T. -0.000 min  
Lab File: BN035278.D  
Acq: 25 Nov 2024 10:52

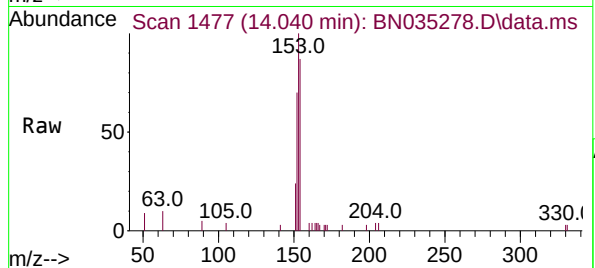
Tgt Ion:152 Resp: 2991  
Ion Ratio Lower Upper  
152 100  
151 19.4 15.9 23.9  
153 12.9 10.2 15.4





#17  
Acenaphthene  
Concen: 0.207 ng  
RT: 14.040 min Scan# 1476  
Delta R.T. 0.010 min  
Lab File: BN035278.D  
Acq: 25 Nov 2024 10:52

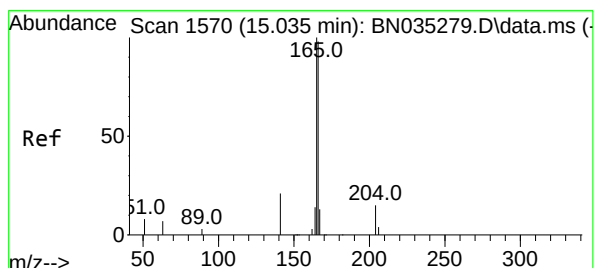
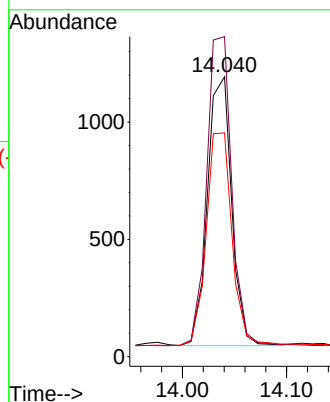
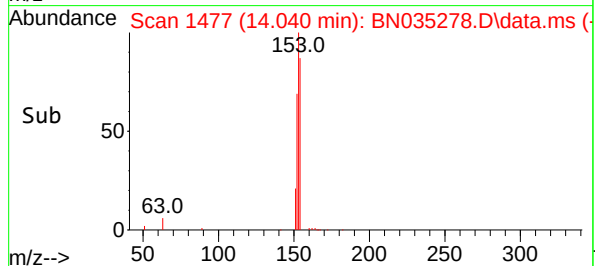
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC0.2



Tgt Ion:154 Resp: 1852  
Ion Ratio Lower Upper  
154 100  
153 119.7 96.1 144.1  
152 84.6 72.2 108.2

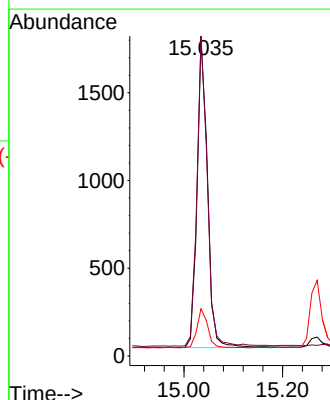
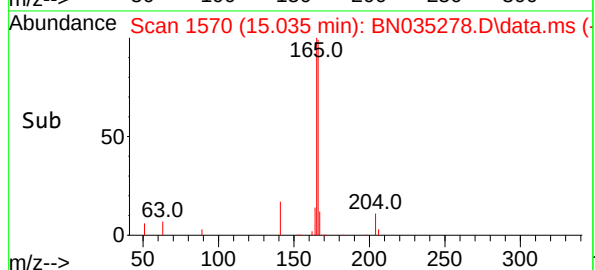
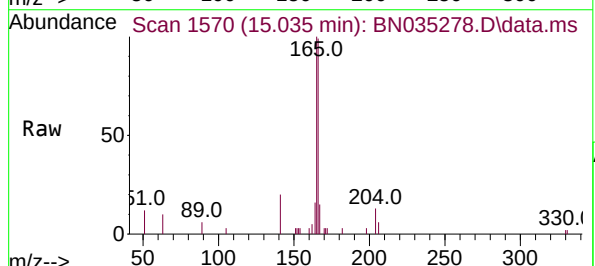
Manual Integrations  
APPROVED

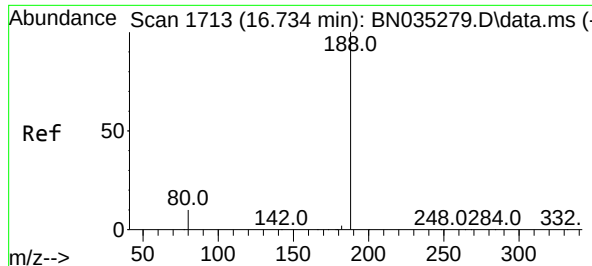
Reviewed By :Yogesh Patel 11/27/2024  
Supervised By :mohammad ahmed 11/27/2024



#18  
Fluorene  
Concen: 0.196 ng  
RT: 15.035 min Scan# 1570  
Delta R.T. -0.000 min  
Lab File: BN035278.D  
Acq: 25 Nov 2024 10:52

Tgt Ion:166 Resp: 2587  
Ion Ratio Lower Upper  
166 100  
165 99.7 81.2 121.8  
167 13.2 10.5 15.7





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 16.734 min Scan# 1713

Delta R.T. -0.000 min

Lab File: BN035278.D

Acq: 25 Nov 2024 10:52

Instrument :

BNA\_N

ClientSampleId :

SSTDICC0.2

Tgt Ion:188 Resp: 753

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

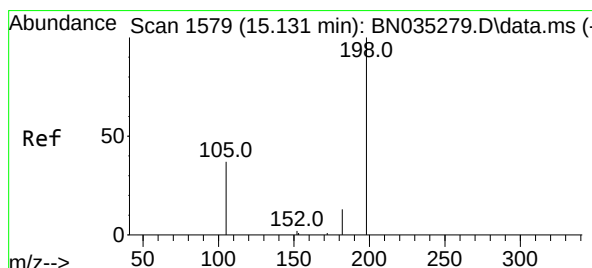
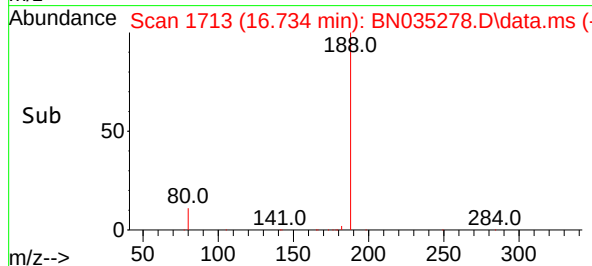
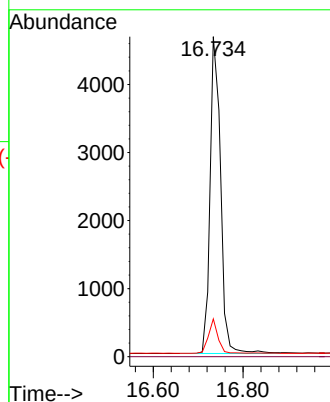
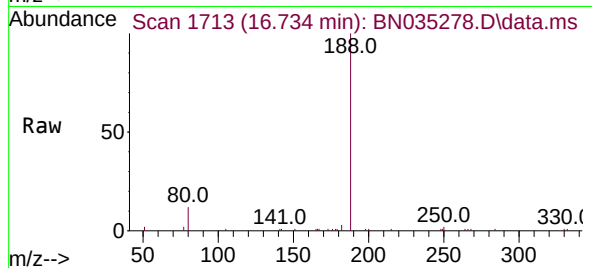
80 11.8 8.9 13.3

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 11/27/2024

Supervised By :mohammad ahmed 11/27/2024



#20

4,6-Dinitro-2-methylphenol

Concen: 0.065 ng

RT: 15.131 min Scan# 1579

Delta R.T. -0.000 min

Lab File: BN035278.D

Acq: 25 Nov 2024 10:52

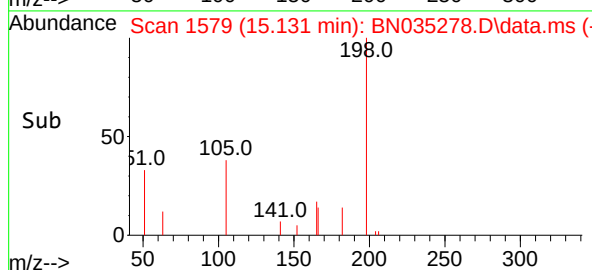
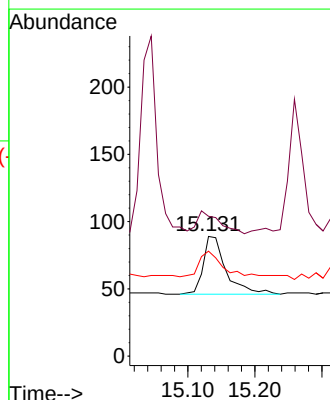
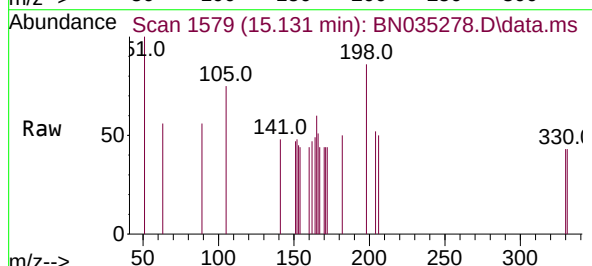
Tgt Ion:198 Resp: 102

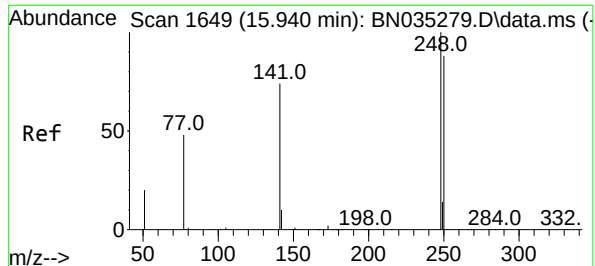
Ion Ratio Lower Upper

198 100

51 116.9 53.6 80.4#

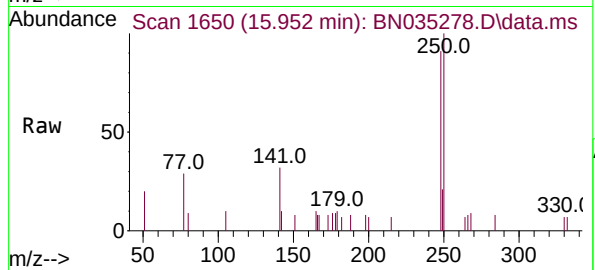
105 87.6 47.4 71.2#





#21  
4-Bromophenyl-phenylether  
Concen: 0.185 ng  
RT: 15.952 min Scan# 1650  
Delta R.T. 0.012 min  
Lab File: BN035278.D  
Acq: 25 Nov 2024 10:52

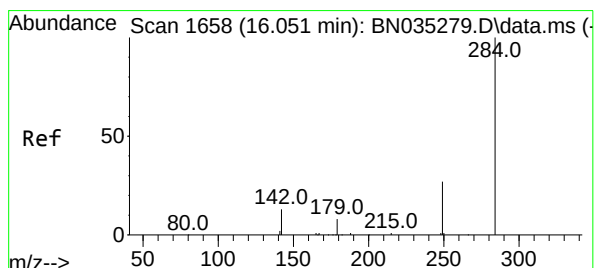
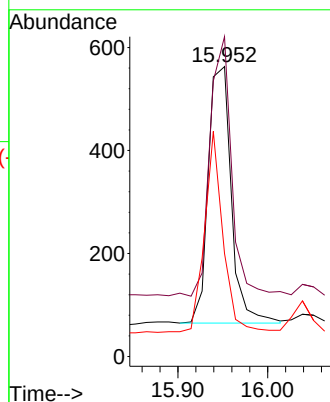
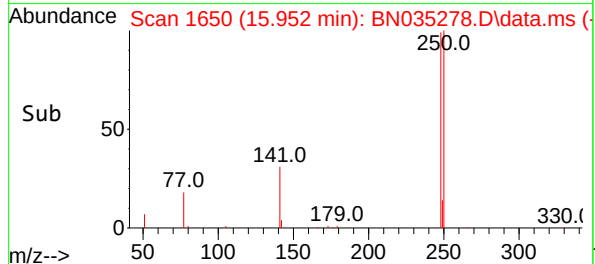
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC0.2



Tgt Ion:248 Resp: 88.4  
Ion Ratio Lower Upper  
248 100  
250 110.3 74.8 112.2  
141 35.5 59.0 88.4

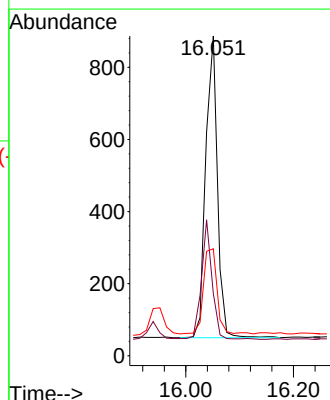
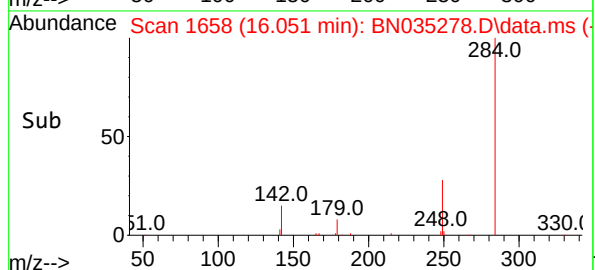
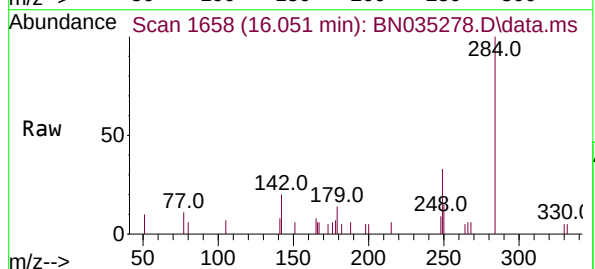
Manual Integrations  
APPROVED

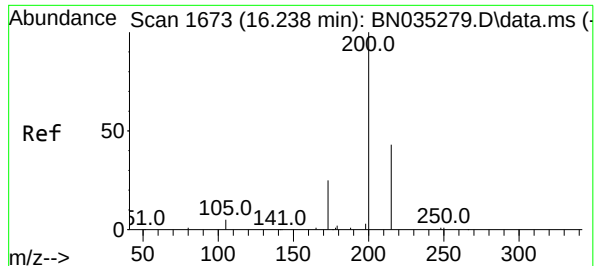
Reviewed By :Yogesh Patel 11/27/2024  
Supervised By :mohammad ahmed 11/27/2024



#22  
Hexachlorobenzene  
Concen: 0.254 ng  
RT: 16.051 min Scan# 1658  
Delta R.T. -0.000 min  
Lab File: BN035278.D  
Acq: 25 Nov 2024 10:52

Tgt Ion:284 Resp: 1264  
Ion Ratio Lower Upper  
284 100  
142 35.2 28.7 43.1  
249 33.8 25.4 38.0





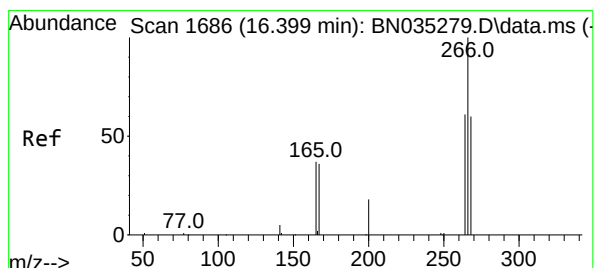
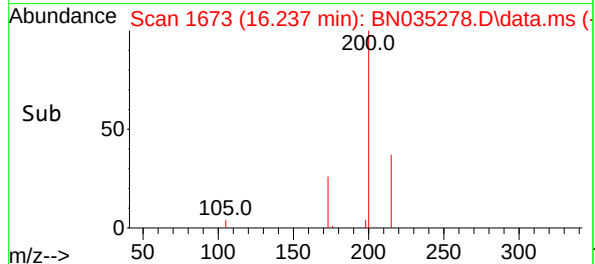
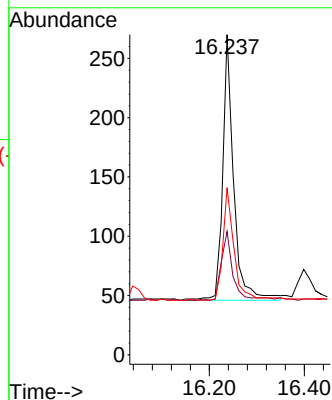
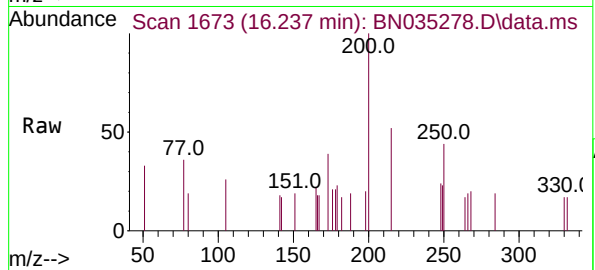
#23  
Atrazine  
Concen: 0.083 ng  
RT: 16.237 min Scan# 1673  
Delta R.T. -0.000 min  
Lab File: BN035278.D  
Acq: 25 Nov 2024 10:52

Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC0.2

Tgt Ion:200 Resp: 352  
Ion Ratio Lower Upper  
200 100  
173 38.5 25.8 38.8  
215 52.2 38.6 58.0

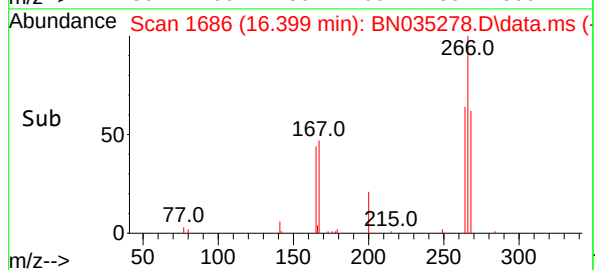
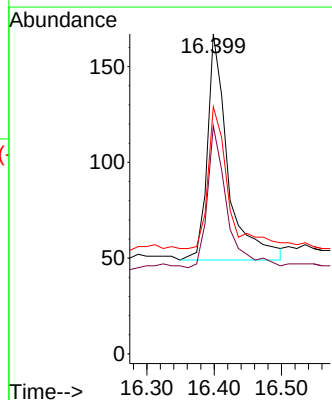
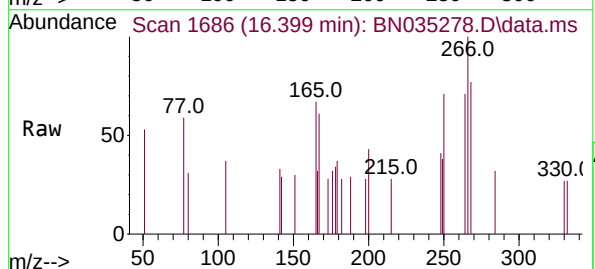
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Reviewed By :Yogesh Patel 11/27/2024  
Supervised By :mohammad ahmed 11/27/2024

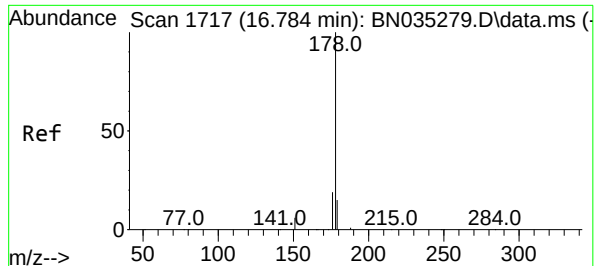


#24  
Pentachlorophenol  
Concen: 0.108 ng  
RT: 16.399 min Scan# 1686  
Delta R.T. -0.000 min  
Lab File: BN035278.D  
Acq: 25 Nov 2024 10:52

Tgt Ion:266 Resp: 252  
Ion Ratio Lower Upper  
266 100  
264 59.1 49.3 73.9  
268 63.1 48.6 73.0







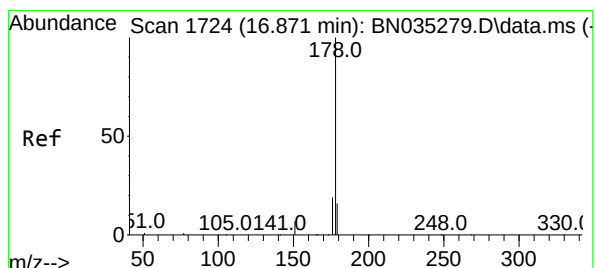
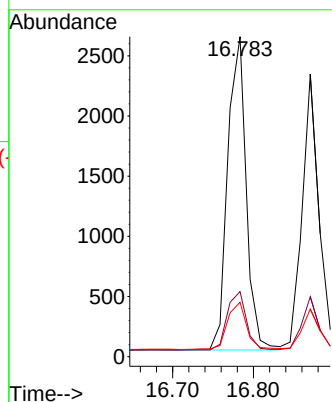
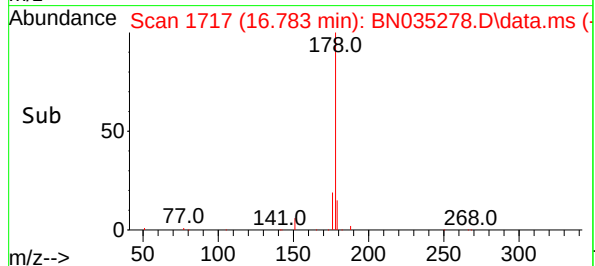
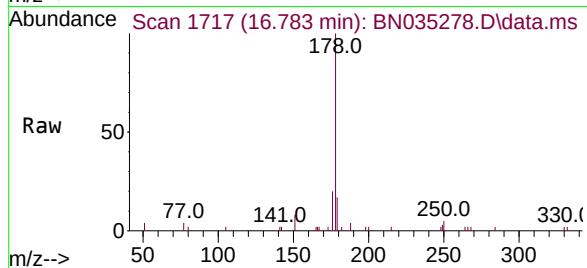
#25  
Phenanthrene  
Concen: 0.210 ng  
RT: 16.783 min Scan# 1717  
Delta R.T. -0.000 min  
Lab File: BN035278.D  
Acq: 25 Nov 2024 10:52

Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC0.2

Tgt Ion:178 Resp: 415  
Ion Ratio Lower Upper  
178 100  
176 19.2 15.4 23.0  
179 15.5 12.6 18.8

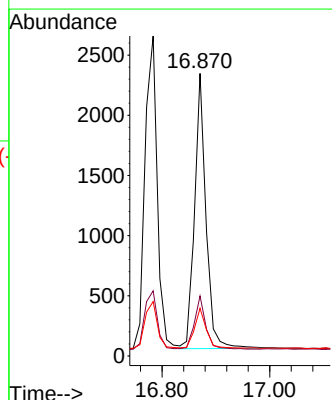
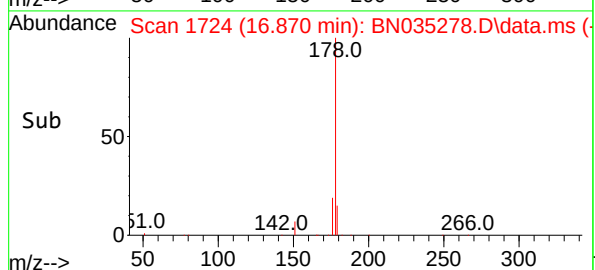
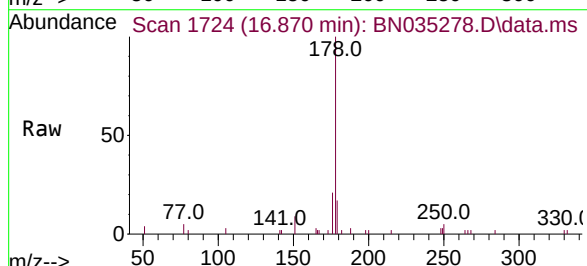
Manual Integrations  
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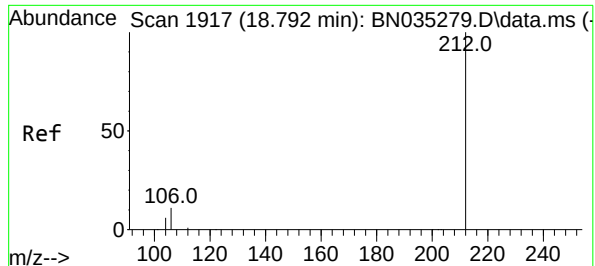
Reviewed By :Yogesh Patel 11/27/2024  
Supervised By :mohammad ahmed 11/27/2024



#26  
Anthracene  
Concen: 0.186 ng  
RT: 16.870 min Scan# 1724  
Delta R.T. -0.000 min  
Lab File: BN035278.D  
Acq: 25 Nov 2024 10:52

Tgt Ion:178 Resp: 3384  
Ion Ratio Lower Upper  
178 100  
176 18.9 15.0 22.4  
179 15.0 12.4 18.6





#27

Fluoranthene-d10

Concen: 0.157 ng

RT: 18.792 min Scan# 1917

Delta R.T. -0.000 min

Lab File: BN035278.D

Acq: 25 Nov 2024 10:52

Instrument :

BNA\_N

ClientSampleId :

SSTDICC0.2

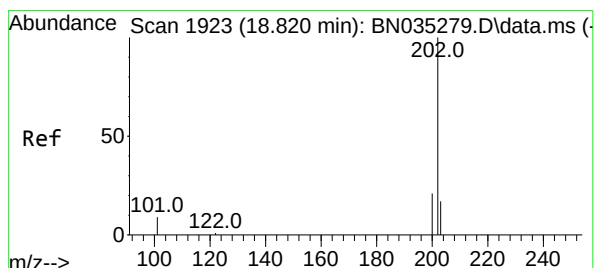
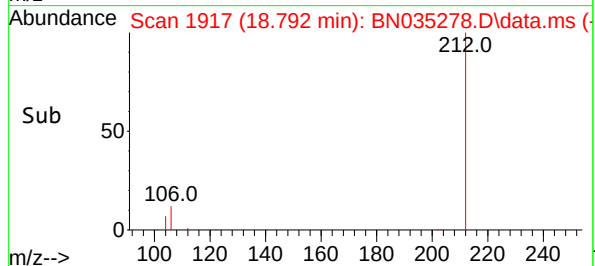
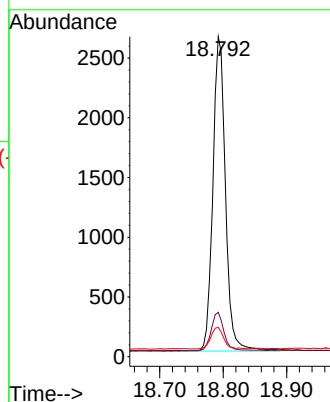
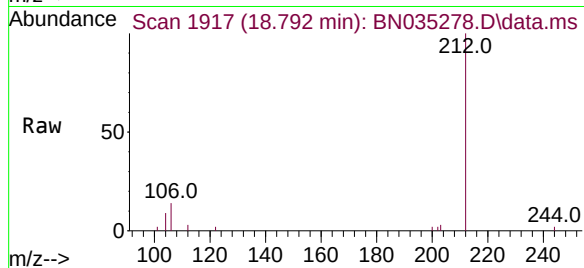
|           |       |       |      |
|-----------|-------|-------|------|
| Tgt Ion:  | 212   | Resp: | 362  |
| Ion Ratio | Lower | Upper |      |
| 212       | 100   |       |      |
| 106       | 12.3  | 9.8   | 14.8 |
| 104       | 6.9   | 5.6   | 8.4  |

Manual Integrations

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Reviewed By :Yogesh Patel 11/27/2024

Supervised By :mohammad ahmed 11/27/2024



#28

Fluoranthene

Concen: 0.177 ng

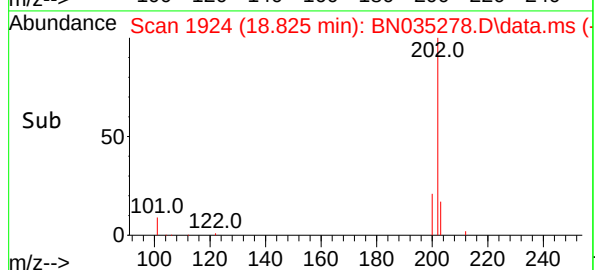
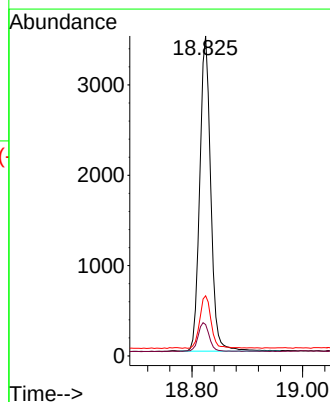
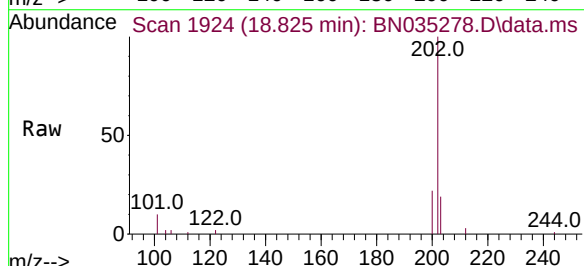
RT: 18.825 min Scan# 1924

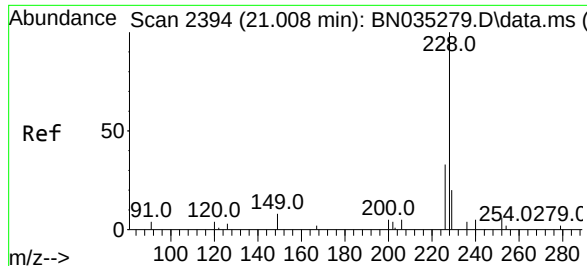
Delta R.T. 0.004 min

Lab File: BN035278.D

Acq: 25 Nov 2024 10:52

|           |       |       |      |
|-----------|-------|-------|------|
| Tgt Ion:  | 202   | Resp: | 4828 |
| Ion Ratio | Lower | Upper |      |
| 202       | 100   |       |      |
| 101       | 9.2   | 7.6   | 11.4 |
| 203       | 17.3  | 13.8  | 20.8 |





#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.008 min Scan# 21

Delta R.T. -0.000 min

Lab File: BN035278.D

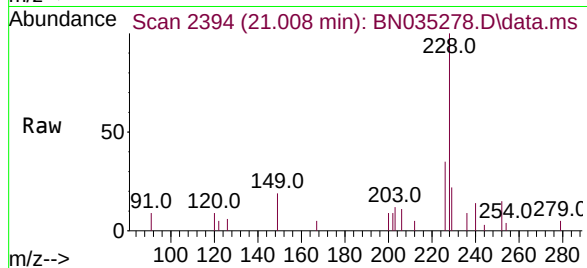
Acq: 25 Nov 2024 10:52

Instrument :

BNA\_N

ClientSampleId :

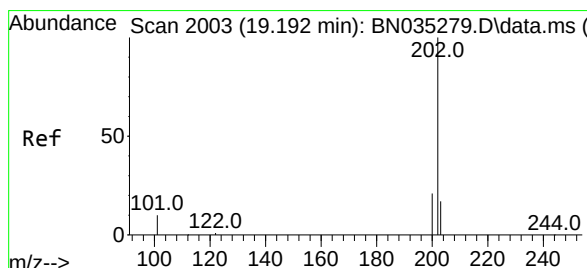
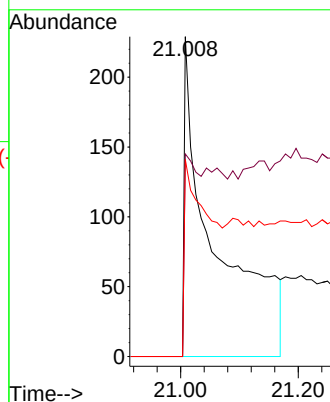
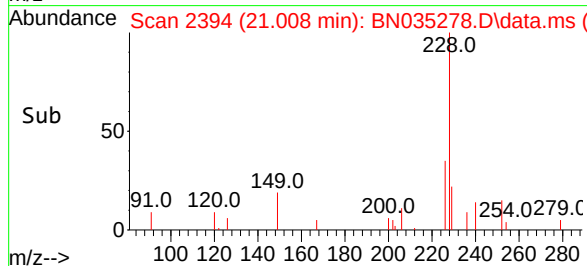
SSTDICC0.2



|           |       |       |      |
|-----------|-------|-------|------|
| Tgt Ion:  | 240   | Resp: | 79   |
| Ion Ratio | Lower | Upper |      |
| 240       | 100   |       |      |
| 120       | 63.3  | 54.9  | 82.3 |
| 236       | 61.6  | 54.0  | 81.0 |

Manual Integrations  
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Reviewed By :Yogesh Patel 11/27/2024  
Supervised By :mohammad ahmed 11/27/2024



#30

Pyrene

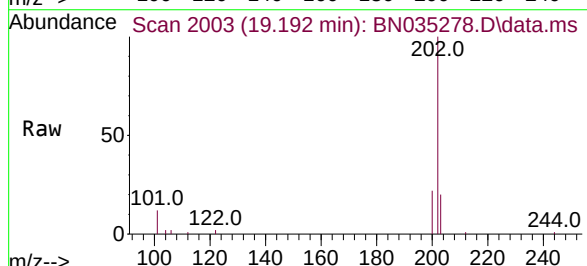
Concen: 1.770 ng

RT: 19.192 min Scan# 2003

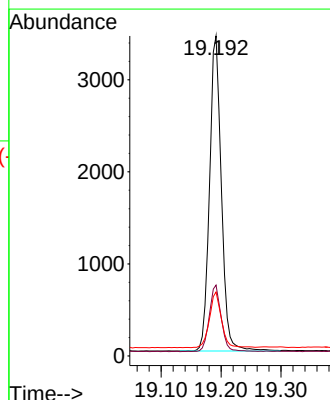
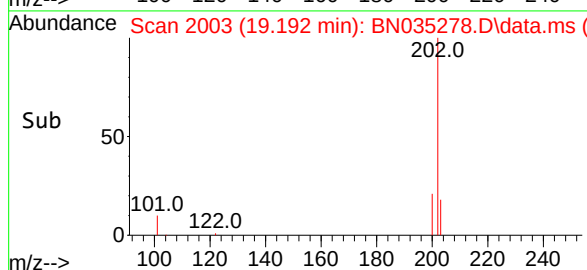
Delta R.T. -0.000 min

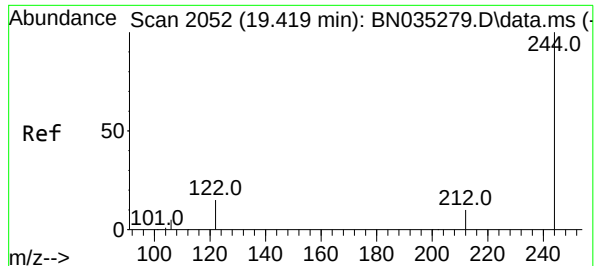
Lab File: BN035278.D

Acq: 25 Nov 2024 10:52



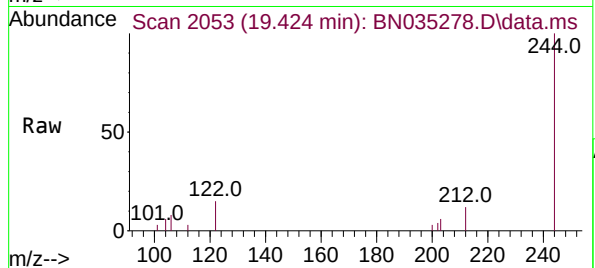
|           |       |       |      |
|-----------|-------|-------|------|
| Tgt Ion:  | 202   | Resp: | 4697 |
| Ion Ratio | Lower | Upper |      |
| 202       | 100   |       |      |
| 200       | 21.2  | 16.8  | 25.2 |
| 203       | 17.7  | 14.4  | 21.6 |





#31  
Terphenyl-d14  
Concen: 1.314 ng  
RT: 19.424 min Scan# 2052  
Delta R.T. 0.004 min  
Lab File: BN035278.D  
Acq: 25 Nov 2024 10:52

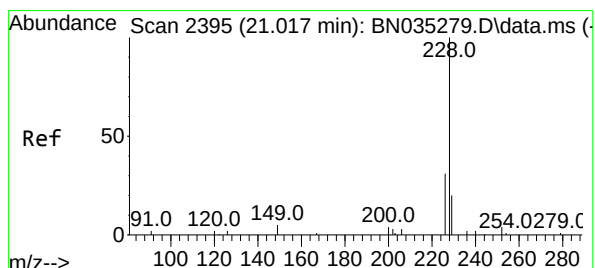
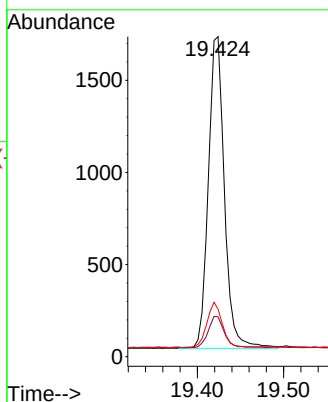
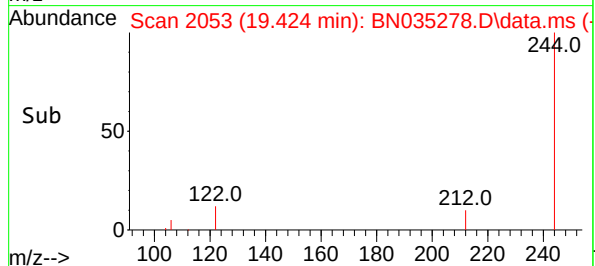
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC0.2



Tgt Ion:244 Resp: 219  
Ion Ratio Lower Upper  
244 100  
212 12.4 9.4 14.0  
122 14.9 13.0 19.4

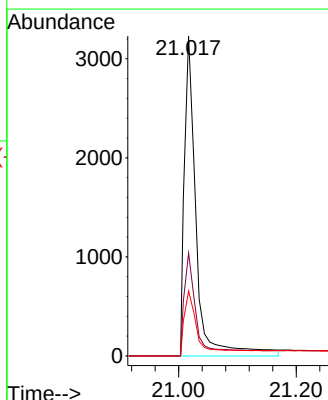
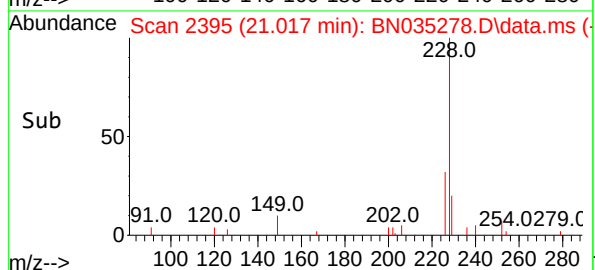
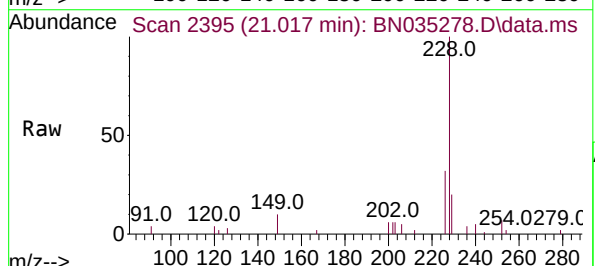
Manual Integrations  
APPROVED

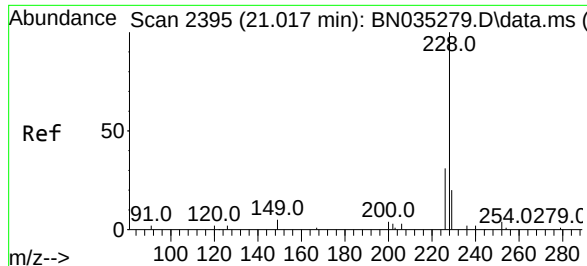
Reviewed By :Yogesh Patel 11/27/2024  
Supervised By :mohammad ahmed 11/27/2024



#32  
Benzo(a)anthracene  
Concen: 1.607 ng  
RT: 21.017 min Scan# 2395  
Delta R.T. -0.000 min  
Lab File: BN035278.D  
Acq: 25 Nov 2024 10:52

Tgt Ion:228 Resp: 4459  
Ion Ratio Lower Upper  
228 100  
226 32.1 24.7 37.1  
229 20.3 16.2 24.2





#33

Chrysene

Concen: 1.622 ng

RT: 21.017 min Scan# 21

Delta R.T. -0.000 min

Lab File: BN035278.D

Acq: 25 Nov 2024 10:52

Instrument :

BNA\_N

ClientSampleId :

SSTDICC0.2

Tgt Ion:228 Resp: 445

Ion Ratio Lower Upper

228 100

226 32.1 24.7 37.1

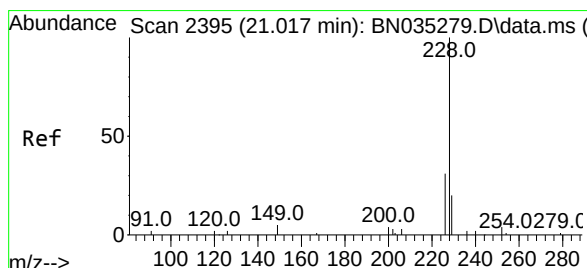
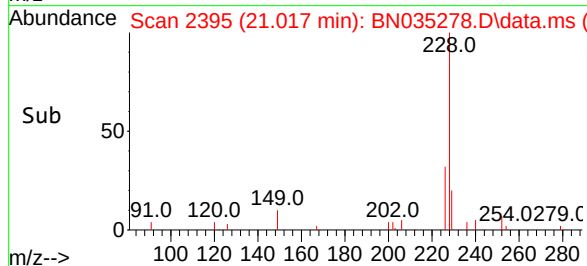
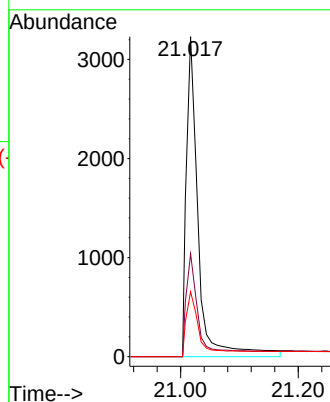
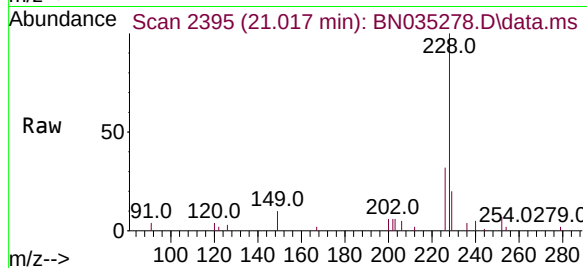
229 20.3 16.2 24.2

Manual Integrations

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Reviewed By :Yogesh Patel 11/27/2024

Supervised By :mohammad ahmed 11/27/2024



#34

Bis(2-ethylhexyl)phthalate

Concen: 0.478 ng

RT: 21.017 min Scan# 2395

Delta R.T. -0.000 min

Lab File: BN035278.D

Acq: 25 Nov 2024 10:52

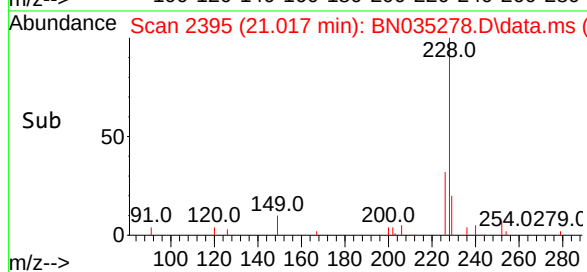
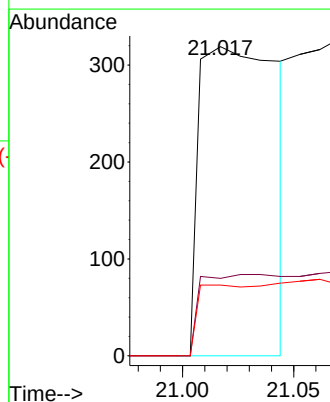
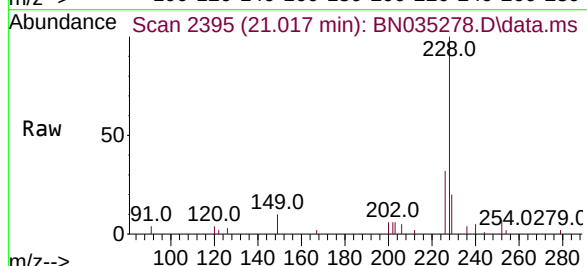
Tgt Ion:149 Resp: 696

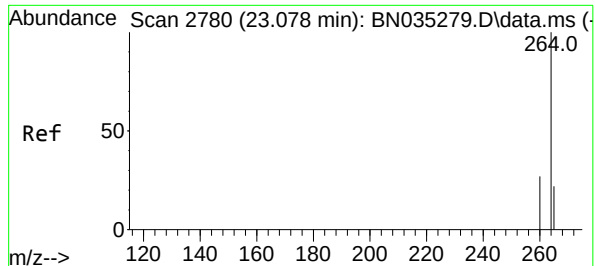
Ion Ratio Lower Upper

149 100

167 26.7 0.0 0.0#

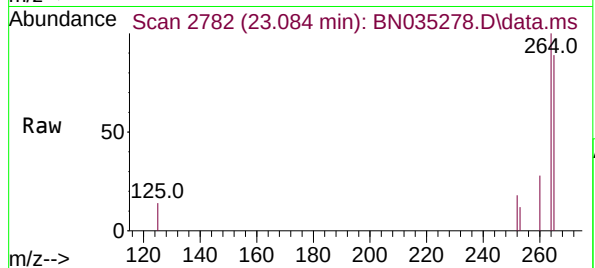
279 12.8 13.0 19.6#





#35  
Perylene-d12  
Concen: 0.400 ng  
RT: 23.084 min Scan# 21  
Delta R.T. 0.006 min  
Lab File: BN035278.D  
Acq: 25 Nov 2024 10:52

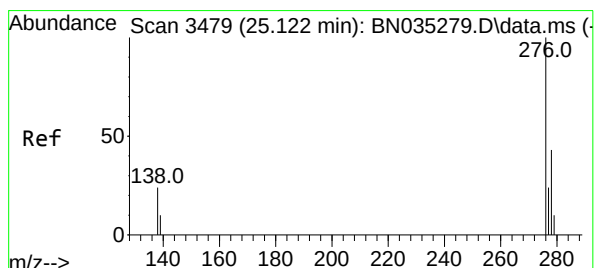
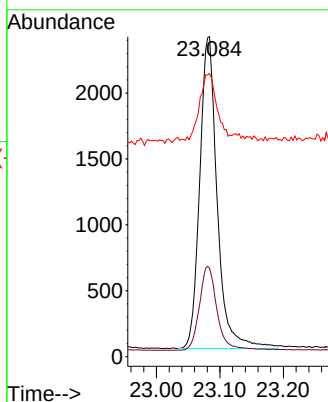
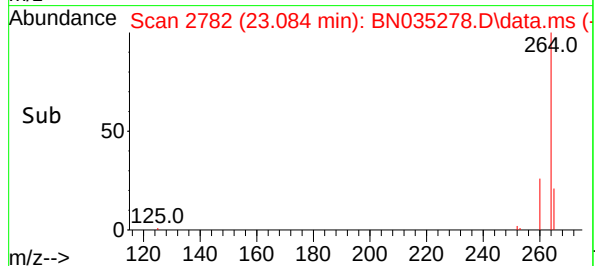
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC0.2



Tgt Ion:264 Resp: 452  
Ion Ratio Lower Upper  
264 100  
260 27.6 22.3 33.5  
265 88.5 68.6 103.0

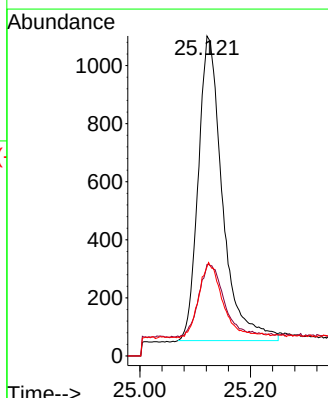
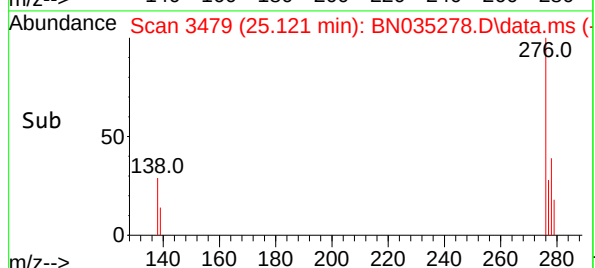
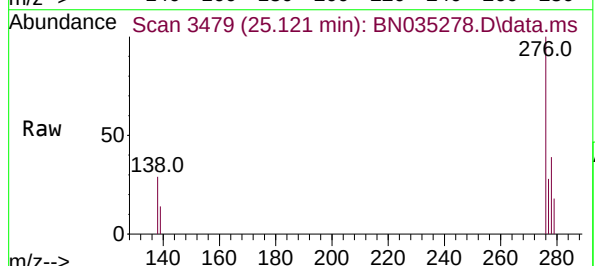
Manual Integrations  
APPROVED

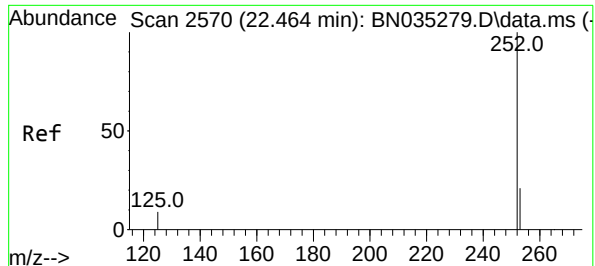
Reviewed By :Yogesh Patel 11/27/2024  
Supervised By :mohammad ahmed 11/27/2024



#36  
Indeno(1,2,3-cd)pyrene  
Concen: 0.177 ng  
RT: 25.121 min Scan# 3479  
Delta R.T. -0.000 min  
Lab File: BN035278.D  
Acq: 25 Nov 2024 10:52

Tgt Ion:276 Resp: 3191  
Ion Ratio Lower Upper  
276 100  
138 23.2 18.8 28.2  
277 23.0 18.2 27.4





#37

Benzo(b)fluoranthene

Concen: 0.231 ng

RT: 22.467 min Scan# 2571

Delta R.T. 0.003 min

Lab File: BN035278.D

Acq: 25 Nov 2024 10:52

Instrument :

BNA\_N

ClientSampleId :

SSTDICC0.2

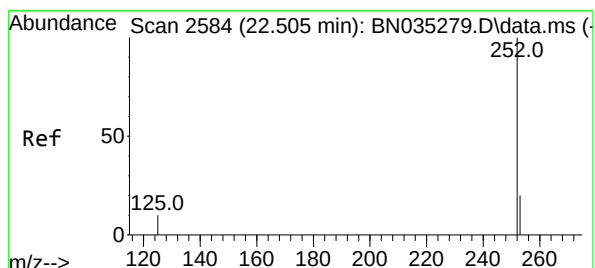
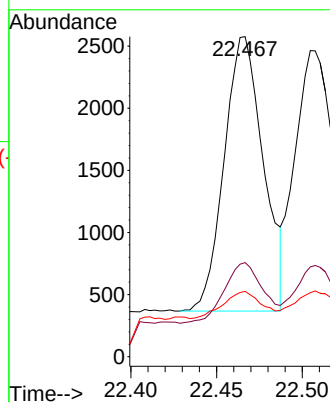
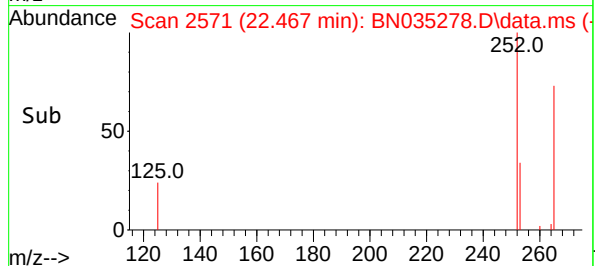
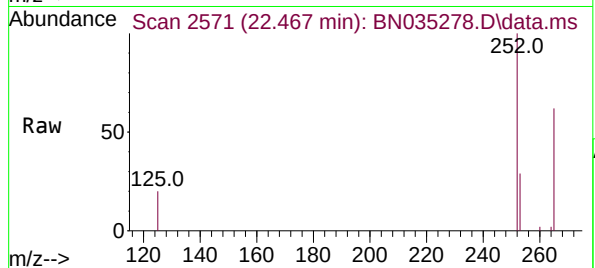
|           |       |       |      |
|-----------|-------|-------|------|
| Tgt Ion:  | 252   | Resp: | 351  |
| Ion Ratio | Lower | Upper |      |
| 252       | 100   |       |      |
| 253       | 29.4  | 20.2  | 30.2 |
| 125       | 20.4  | 12.0  | 18.0 |

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 11/27/2024

Supervised By :mohammad ahmed 11/27/2024



#38

Benzo(k)fluoranthene

Concen: 0.235 ng

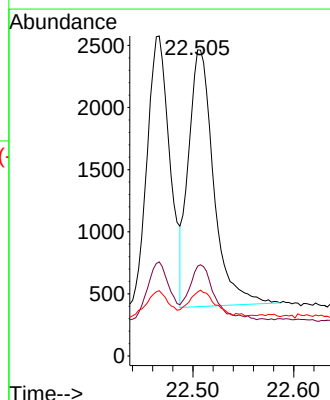
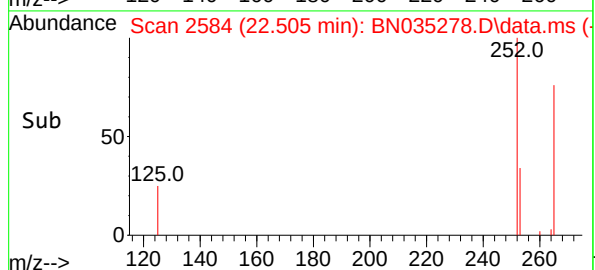
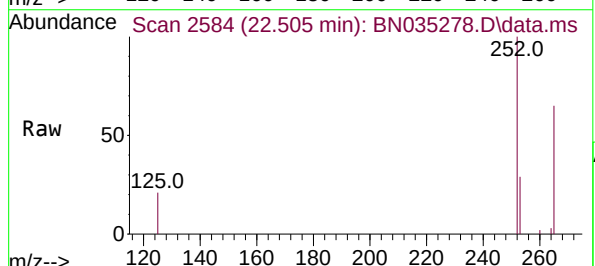
RT: 22.505 min Scan# 2584

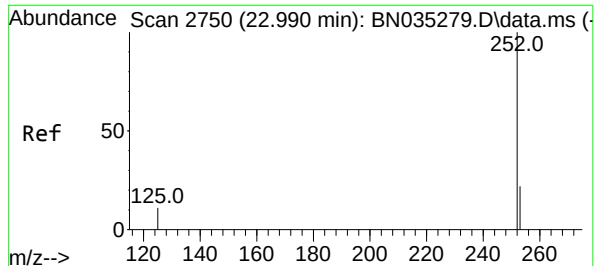
Delta R.T. -0.000 min

Lab File: BN035278.D

Acq: 25 Nov 2024 10:52

|           |       |       |      |
|-----------|-------|-------|------|
| Tgt Ion:  | 252   | Resp: | 3588 |
| Ion Ratio | Lower | Upper |      |
| 252       | 100   |       |      |
| 253       | 29.3  | 20.1  | 30.1 |
| 125       | 20.9  | 12.7  | 19.1 |





#39

Benzo(a)pyrene

Concen: 0.199 ng

RT: 22.990 min Scan# 21

Delta R.T. -0.000 min

Lab File: BN035278.D

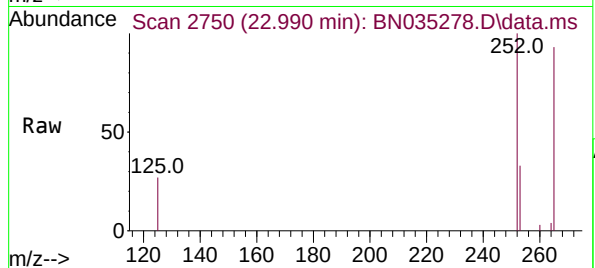
Acq: 25 Nov 2024 10:52

Instrument :

BNA\_N

ClientSampleId :

SSTDICC0.2



Tgt Ion:252 Resp: 267

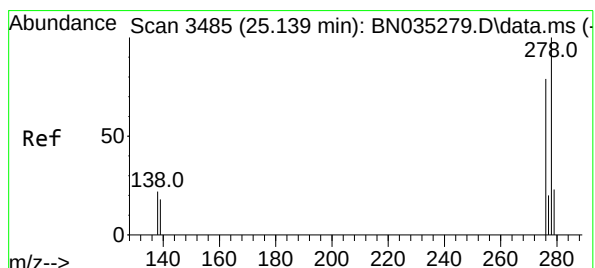
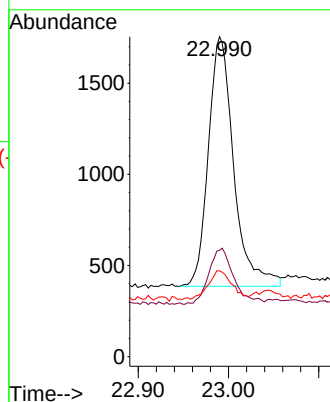
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 252 | 100   |       |       |
| 253 | 33.2  | 22.3  | 33.5  |
| 125 | 26.8  | 15.3  | 22.9  |

Manual Integrations

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Reviewed By :Yogesh Patel 11/27/2024

Supervised By :mohammad ahmed 11/27/2024



#40

Dibenzo(a,h)anthracene

Concen: 0.163 ng

RT: 25.142 min Scan# 3486

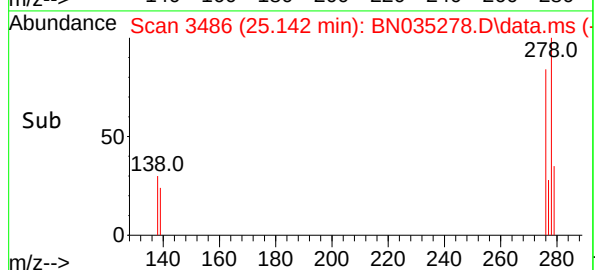
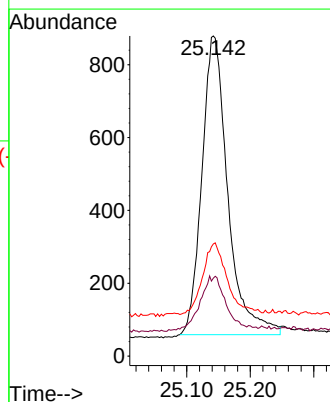
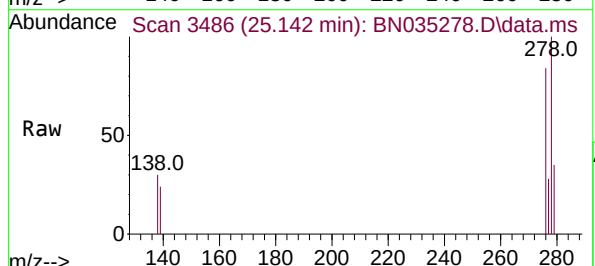
Delta R.T. 0.003 min

Lab File: BN035278.D

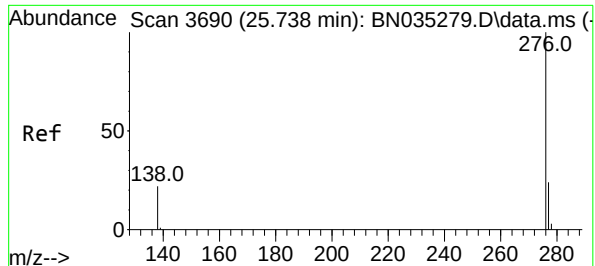
Acq: 25 Nov 2024 10:52

Tgt Ion:278 Resp: 2328

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 278 | 100   |       |       |
| 139 | 24.3  | 17.0  | 25.6  |
| 279 | 35.0  | 23.0  | 34.4  |







#41

Benzo(g,h,i)perylene

Concen: 0.195 ng

RT: 25.741 min Scan# 30

Delta R.T. 0.003 min

Lab File: BN035278.D

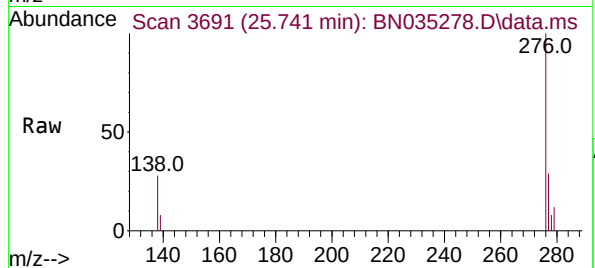
Acq: 25 Nov 2024 10:52

Instrument :

BNA\_N

ClientSampleId :

SSTDICC0.2



Tgt Ion:276 Resp: 296

Ion Ratio Lower Upper

276 100

277 28.6 21.1 31.7

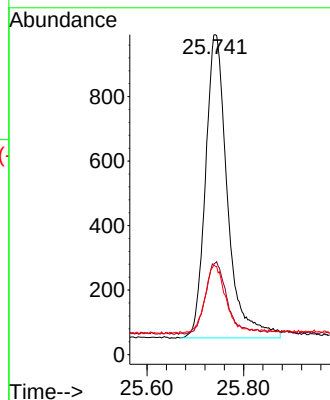
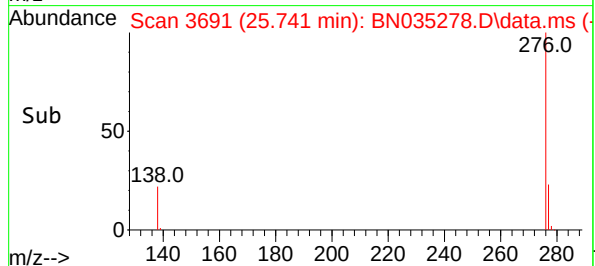
138 27.6 19.8 29.8

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 11/27/2024

Supervised By :mohammad ahmed 11/27/2024



Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN112524\  
 Data File : BN035279.D  
 Acq On : 25 Nov 2024 11:28  
 Operator : RC/JU  
 Sample : SSTDICCC0.4  
 Misc :  
 ALS Vial : 54 Sample Multiplier: 1

Instrument :  
 BNA\_N  
 ClientSampleId :  
 SSTDICCC0.4

Quant Time: Nov 25 14:13:14 2024  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\8270-SIM-BN112524.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Mon Nov 25 14:13:00 2024  
 Response via : Initial Calibration

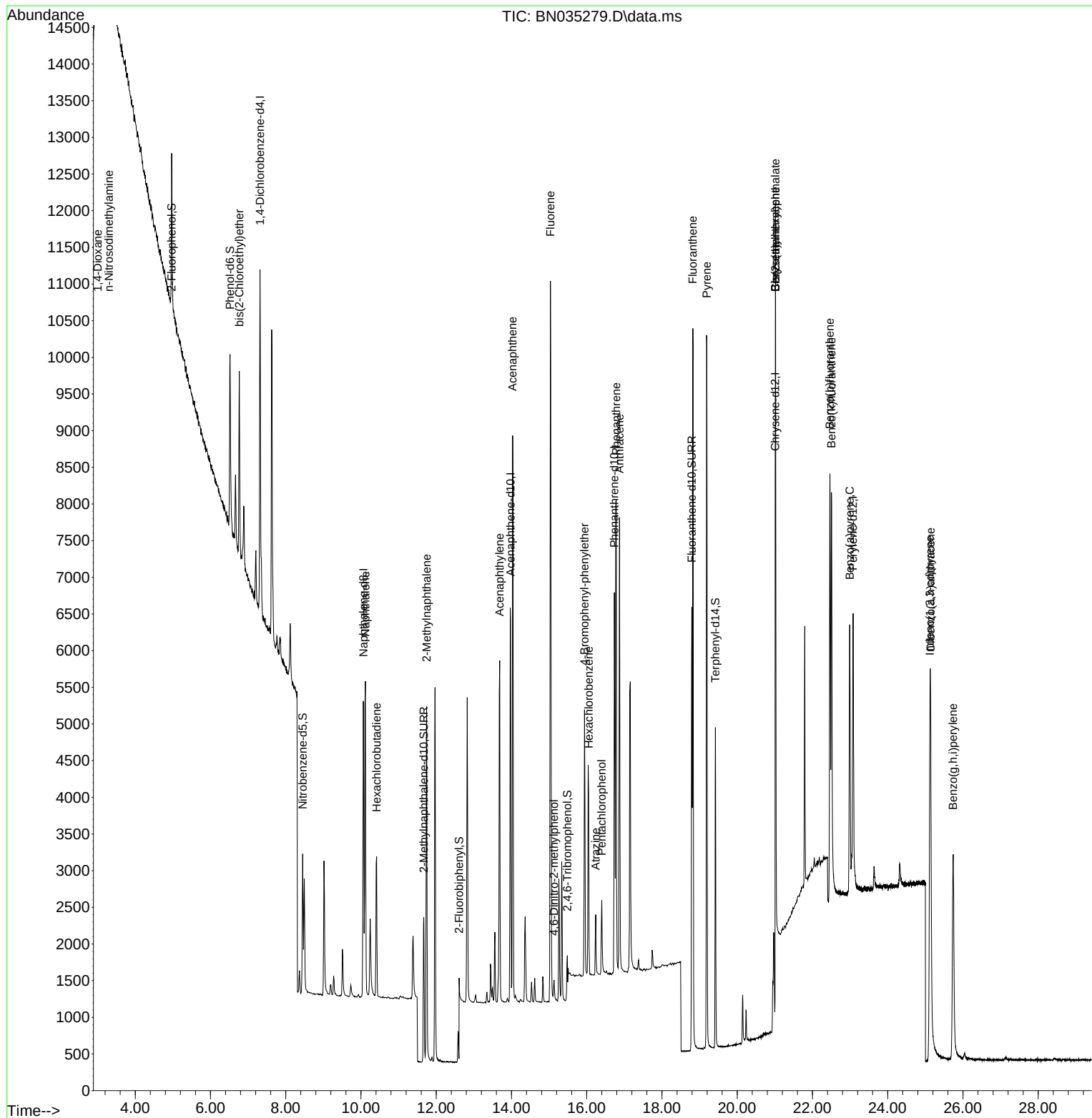
| Compound                      | R.T.   | QIon | Response | Conc  | Units | Dev(Min) |
|-------------------------------|--------|------|----------|-------|-------|----------|
| -----                         |        |      |          |       |       |          |
| Internal Standards            |        |      |          |       |       |          |
| 1) 1,4-Dichlorobenzene-d4     | 7.315  | 152  | 2200     | 0.400 | ng    | 0.00     |
| 7) Naphthalene-d8             | 10.063 | 136  | 5326     | 0.400 | ng    | 0.00     |
| 13) Acenaphthene-d10          | 13.976 | 164  | 2947     | 0.400 | ng    | 0.00     |
| 19) Phenanthrene-d10          | 16.734 | 188  | 6895     | 0.400 | ng    | 0.00     |
| 29) Chrysene-d12              | 21.008 | 240  | 586      | 0.400 | ng    | 0.00     |
| 35) Perylene-d12              | 23.078 | 264  | 4692     | 0.400 | ng    | 0.00     |
| System Monitoring Compounds   |        |      |          |       |       |          |
| 4) 2-Fluorophenol             | 4.968  | 112  | 1735     | 0.311 | ng    | 0.00     |
| 5) Phenol-d6                  | 6.521  | 99   | 2431     | 0.347 | ng    | 0.00     |
| 8) Nitrobenzene-d5            | 8.451  | 82   | 1846     | 0.398 | ng    | 0.00     |
| 11) 2-Methylnaphthalene-d10   | 11.667 | 152  | 2873     | 0.303 | ng    | 0.00     |
| 14) 2,4,6-Tribromophenol      | 15.484 | 330  | 531      | 0.250 | ng    | 0.00     |
| 15) 2-Fluorobiphenyl          | 12.608 | 172  | 721      | 0.060 | ng    | 0.00     |
| 27) Fluoranthene-d10          | 18.792 | 212  | 6669     | 0.316 | ng    | 0.00     |
| 31) Terphenyl-d14             | 19.419 | 244  | 4254     | 3.460 | ng    | 0.00     |
| Target Compounds              |        |      |          |       |       |          |
|                               |        |      |          |       |       | Qvalue   |
| 2) 1,4-Dioxane                | 3.003  | 88   | 631      | 0.316 | ng    | 100      |
| 3) n-Nitrosodimethylamine     | 3.300  | 42   | 624      | 0.335 | ng    | 100      |
| 6) bis(2-Chloroethyl)ether    | 6.766  | 93   | 1971     | 0.375 | ng    | 100      |
| 9) Naphthalene                | 10.116 | 128  | 5810     | 0.418 | ng    | 100      |
| 10) Hexachlorobutadiene       | 10.415 | 225  | 1664     | 0.408 | ng    | # 100    |
| 12) 2-Methylnaphthalene       | 11.742 | 142  | 3623     | 0.353 | ng    | 100      |
| 16) Acenaphthylene            | 13.688 | 152  | 5556     | 0.441 | ng    | 100      |
| 17) Acenaphthene              | 14.030 | 154  | 3465     | 0.420 | ng    | 100      |
| 18) Fluorene                  | 15.035 | 166  | 4816     | 0.397 | ng    | 100      |
| 20) 4,6-Dinitro-2-methylph... | 15.131 | 198  | 233      | 0.162 | ng    | 100      |
| 21) 4-Bromophenyl-phenylether | 15.940 | 248  | 1623     | 0.369 | ng    | 100      |
| 22) Hexachlorobenzene         | 16.051 | 284  | 2429     | 0.533 | ng    | 100      |
| 23) Atrazine                  | 16.238 | 200  | 689      | 0.175 | ng    | 100      |
| 24) Pentachlorophenol         | 16.399 | 266  | 544      | 0.255 | ng    | 100      |
| 25) Phenanthrene              | 16.784 | 178  | 7798     | 0.430 | ng    | 100      |
| 26) Anthracene                | 16.871 | 178  | 6280     | 0.377 | ng    | 100      |
| 28) Fluoranthene              | 18.820 | 202  | 9240     | 0.370 | ng    | 100      |
| 30) Pyrene                    | 19.192 | 202  | 8957     | 4.590 | ng    | 100      |
| 32) Benzo(a)anthracene        | 21.017 | 228  | 8100     | 3.970 | ng    | 100      |
| 33) Chrysene                  | 21.017 | 228  | 8100     | 4.007 | ng    | 100      |
| 34) Bis(2-ethylhexyl)phtha... | 21.017 | 149  | 533      | 0.498 | ng    | # 100    |
| 36) Indeno(1,2,3-cd)pyrene    | 25.122 | 276  | 7146     | 0.382 | ng    | 100      |
| 37) Benzo(b)fluoranthene      | 22.464 | 252  | 6813     | 0.432 | ng    | 100      |
| 38) Benzo(k)fluoranthene      | 22.505 | 252  | 7659     | 0.485 | ng    | 100      |
| 39) Benzo(a)pyrene            | 22.990 | 252  | 5365     | 0.386 | ng    | 100      |
| 40) Dibenzo(a,h)anthracene    | 25.139 | 278  | 5194     | 0.350 | ng    | 100      |
| 41) Benzo(g,h,i)perylene      | 25.738 | 276  | 5823     | 0.369 | ng    | 100      |
| -----                         |        |      |          |       |       |          |

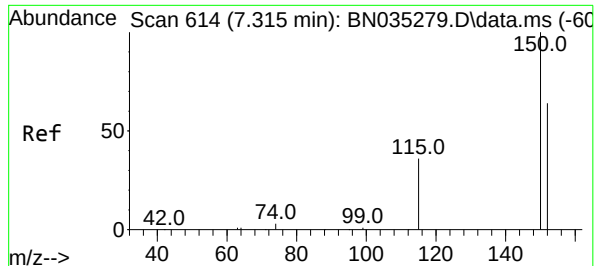
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN112524\  
Data File : BN035279.D  
Acq On : 25 Nov 2024 11:28  
Operator : RC/JU  
Sample : SSTDICC0.4  
Misc :  
ALS Vial : 54 Sample Multiplier: 1

Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC0.4

Quant Time: Nov 25 14:13:14 2024  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\8270-SIM-BN112524.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Mon Nov 25 14:13:00 2024  
Response via : Initial Calibration

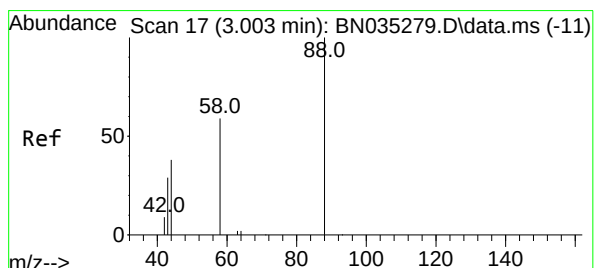
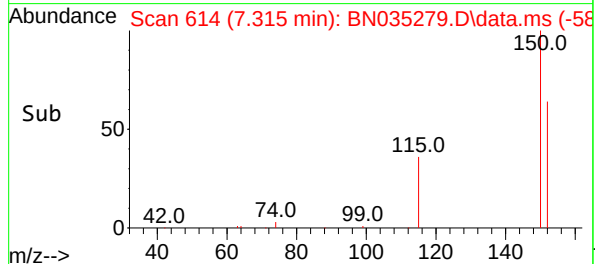
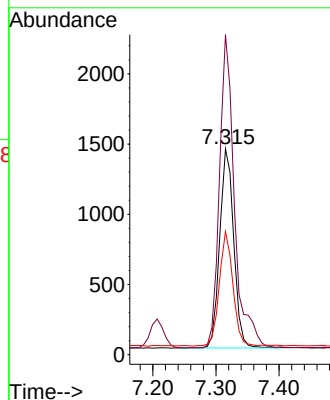
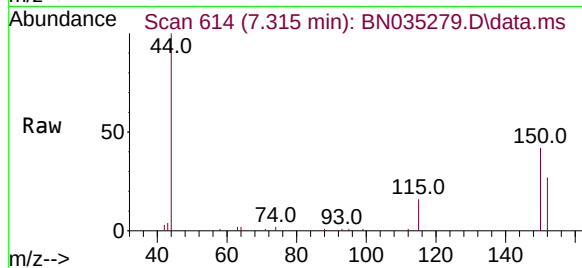




#1  
1,4-Dichlorobenzene-d4  
Concen: 0.400 ng  
RT: 7.315 min Scan# 61  
Delta R.T. 0.000 min  
Lab File: BN035279.D  
Acq: 25 Nov 2024 11:28

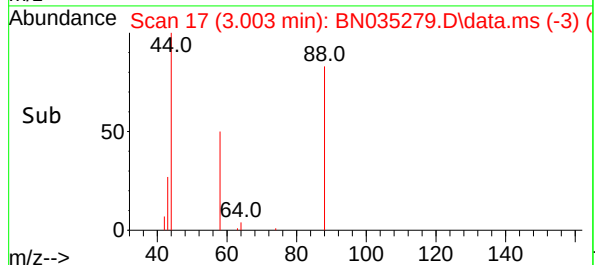
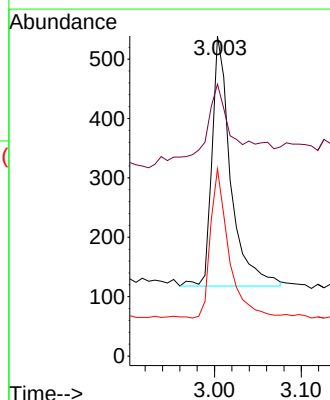
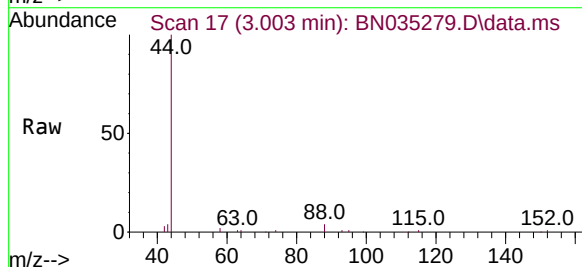
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICCC0.4

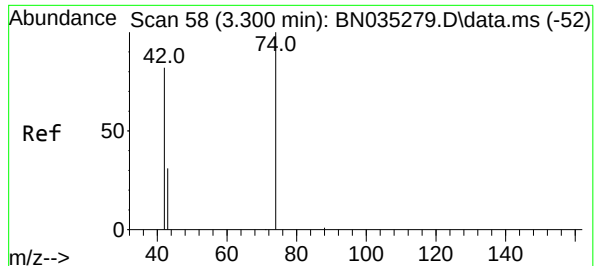
Tgt Ion:152 Resp: 2200  
Ion Ratio Lower Upper  
152 100  
150 155.6 124.5 186.7  
115 59.8 47.8 71.8



#2  
1,4-Dioxane  
Concen: 0.316 ng  
RT: 3.003 min Scan# 17  
Delta R.T. 0.000 min  
Lab File: BN035279.D  
Acq: 25 Nov 2024 11:28

Tgt Ion: 88 Resp: 631  
Ion Ratio Lower Upper  
88 100  
43 60.1 48.1 72.1  
58 58.6 46.9 70.3

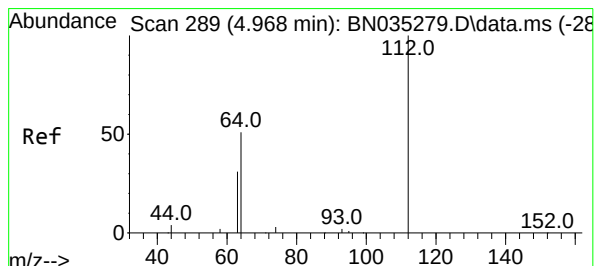
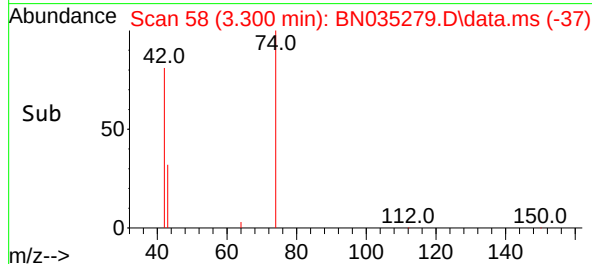
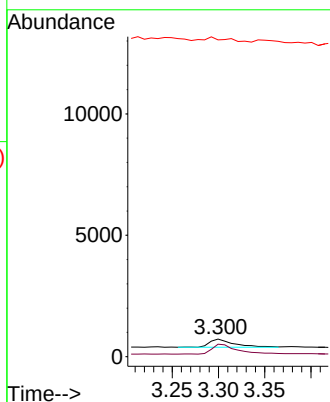
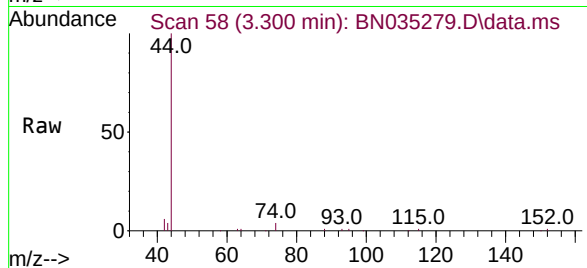




#3  
n-Nitrosodimethylamine  
Concen: 0.335 ng  
RT: 3.300 min Scan# 58  
Delta R.T. 0.000 min  
Lab File: BN035279.D  
Acq: 25 Nov 2024 11:28

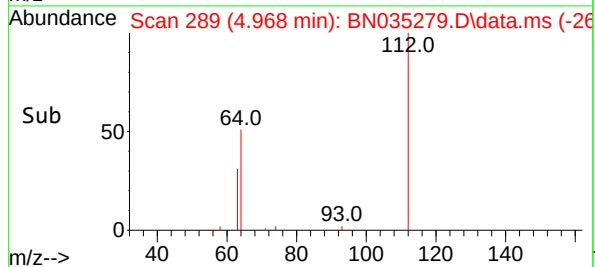
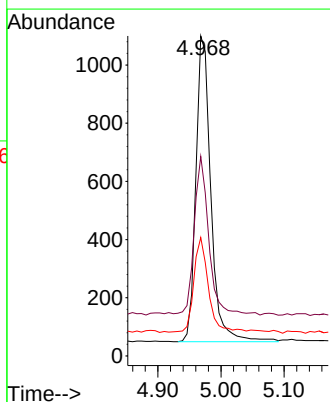
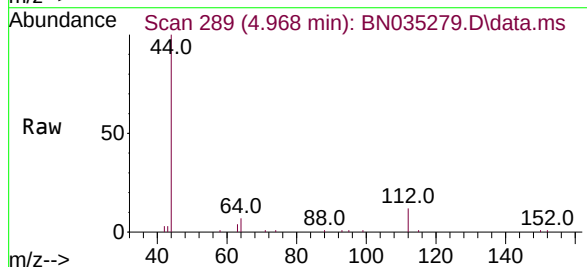
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICCC0.4

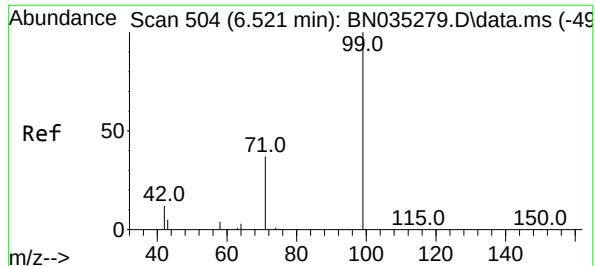
Tgt Ion: 42 Resp: 624  
Ion Ratio Lower Upper  
42 100  
74 128.4 102.7 154.1  
44 42.6 34.1 51.1



#4  
2-Fluorophenol  
Concen: 0.311 ng  
RT: 4.968 min Scan# 289  
Delta R.T. 0.000 min  
Lab File: BN035279.D  
Acq: 25 Nov 2024 11:28

Tgt Ion: 112 Resp: 1735  
Ion Ratio Lower Upper  
112 100  
64 50.5 40.4 60.6  
63 29.8 23.8 35.8





#5

Phenol-d6

Concen: 0.347 ng

RT: 6.521 min Scan# 504

Delta R.T. 0.000 min

Lab File: BN035279.D

Acq: 25 Nov 2024 11:28

Instrument :

BNA\_N

ClientSampleId :

SSTDICCC0.4

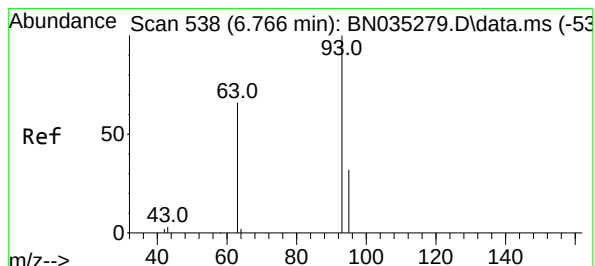
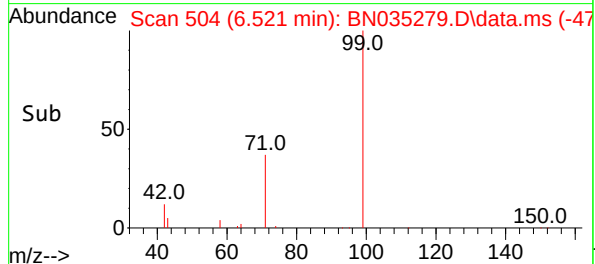
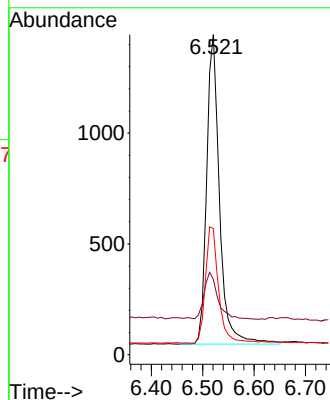
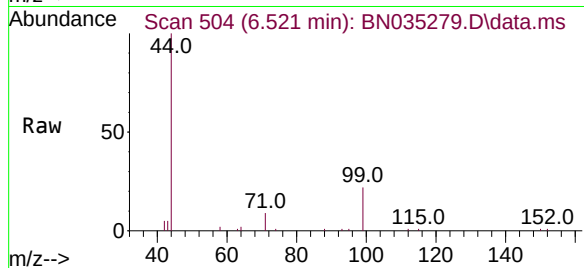
Tgt Ion: 99 Resp: 2431

Ion Ratio Lower Upper

99 100

42 16.0 12.8 19.2

71 39.3 31.4 47.2



#6

bis(2-Chloroethyl)ether

Concen: 0.375 ng

RT: 6.766 min Scan# 538

Delta R.T. 0.000 min

Lab File: BN035279.D

Acq: 25 Nov 2024 11:28

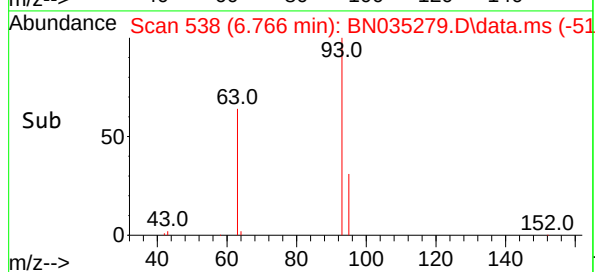
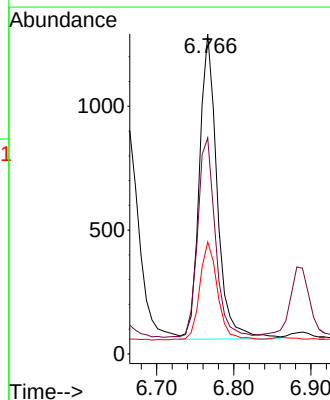
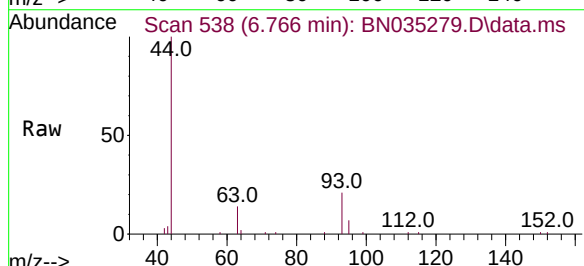
Tgt Ion: 93 Resp: 1971

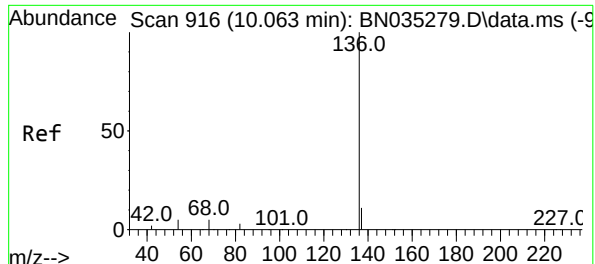
Ion Ratio Lower Upper

93 100

63 65.4 52.3 78.5

95 31.9 25.5 38.3

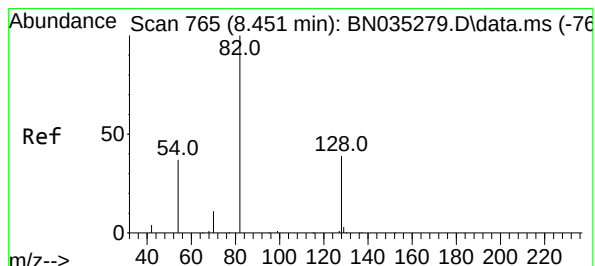
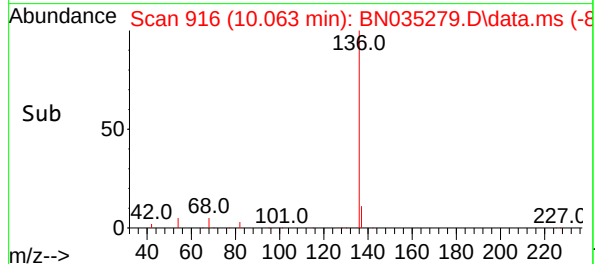
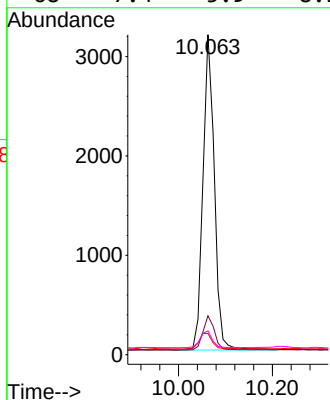
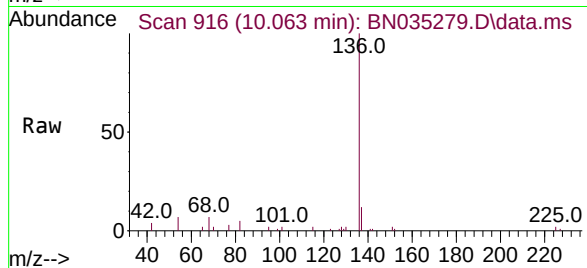




#7  
Naphthalene-d8  
Concen: 0.400 ng  
RT: 10.063 min Scan# 916  
Delta R.T. 0.000 min  
Lab File: BN035279.D  
Acq: 25 Nov 2024 11:28

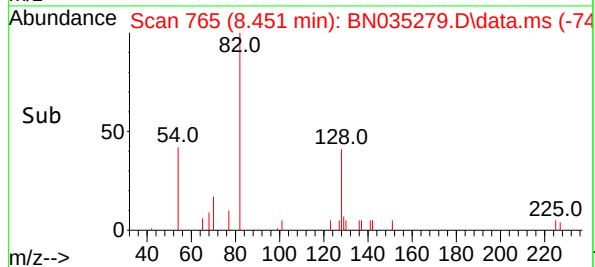
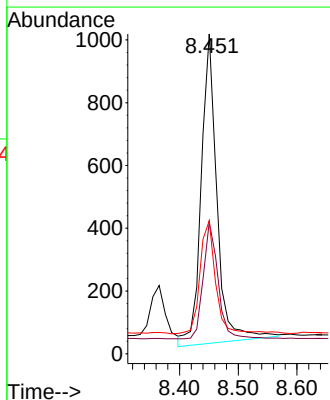
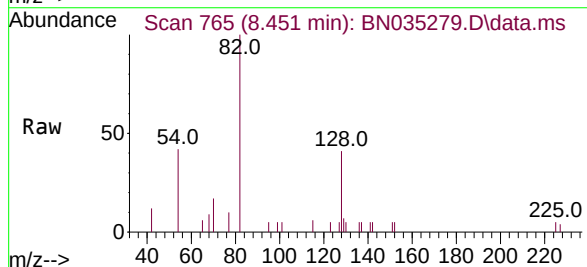
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICCC0.4

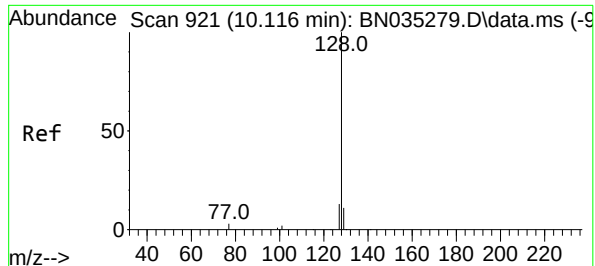
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 136   | Resp: | 5326  |
| Ion      | Ratio | Lower | Upper |
| 136      | 100   |       |       |
| 137      | 12.1  | 9.7   | 14.5  |
| 54       | 6.6   | 5.3   | 7.9   |
| 68       | 7.4   | 5.9   | 8.9   |



#8  
Nitrobenzene-d5  
Concen: 0.398 ng  
RT: 8.451 min Scan# 765  
Delta R.T. 0.000 min  
Lab File: BN035279.D  
Acq: 25 Nov 2024 11:28

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 82    | Resp: | 1846  |
| Ion      | Ratio | Lower | Upper |
| 82       | 100   |       |       |
| 128      | 41.2  | 33.0  | 49.4  |
| 54       | 41.6  | 33.3  | 49.9  |



#9  
Naphthalene

Concen: 0.418 ng

RT: 10.116 min Scan# 921

Delta R.T. 0.000 min

Lab File: BN035279.D

Acq: 25 Nov 2024 11:28

Instrument :

BNA\_N

ClientSampleId :

SSTDICCC0.4

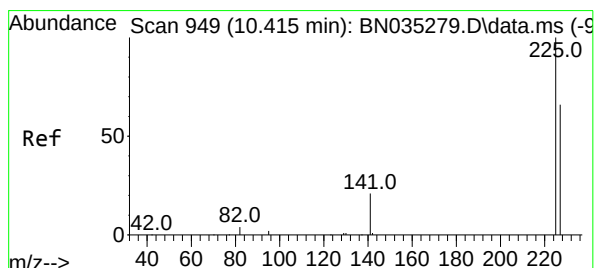
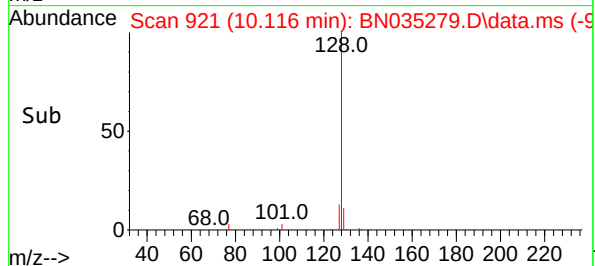
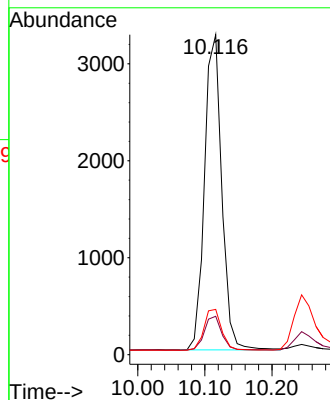
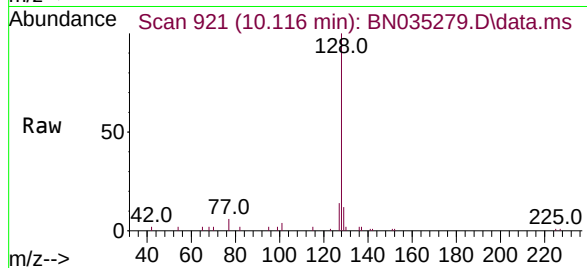
Tgt Ion:128 Resp: 5810

Ion Ratio Lower Upper

128 100

129 12.0 9.6 14.4

127 14.1 11.3 16.9



#10

Hexachlorobutadiene

Concen: 0.408 ng

RT: 10.415 min Scan# 949

Delta R.T. 0.000 min

Lab File: BN035279.D

Acq: 25 Nov 2024 11:28

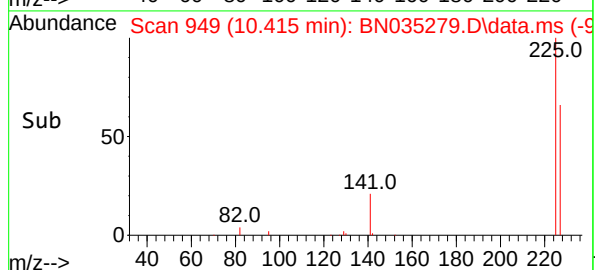
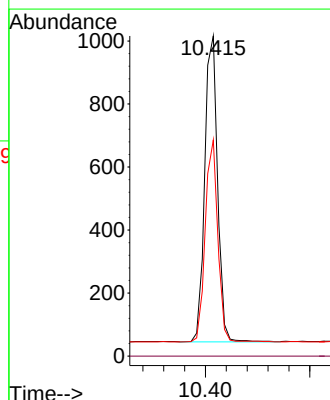
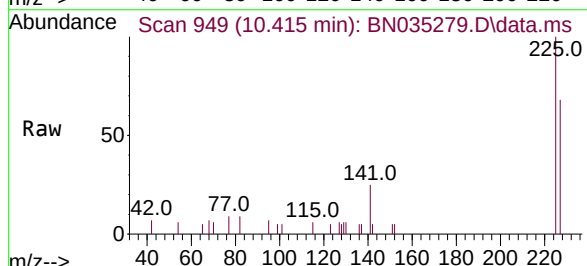
Tgt Ion:225 Resp: 1664

Ion Ratio Lower Upper

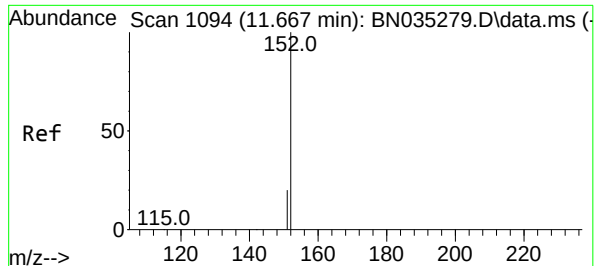
225 100

223 0.0 0.0 0.0

227 64.1 51.3 76.9



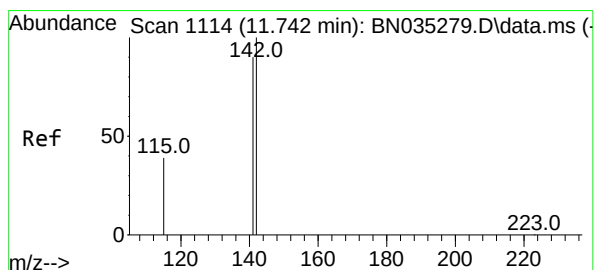
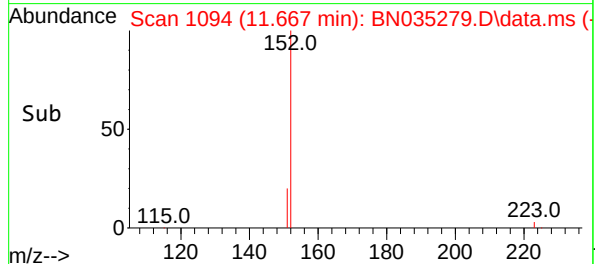
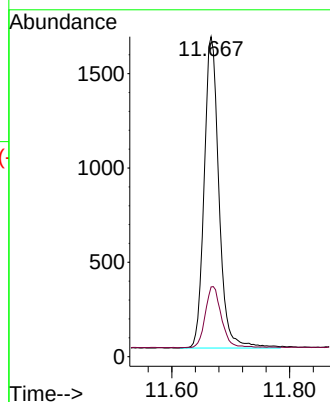
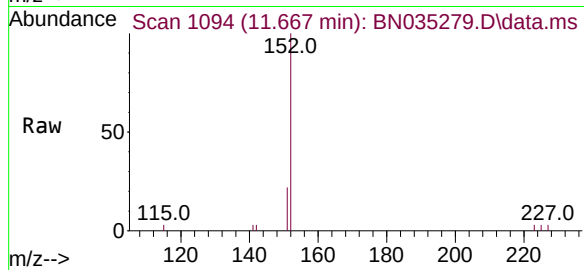




#11  
2-Methylnaphthalene-d10  
Concen: 0.303 ng  
RT: 11.667 min Scan# 1094  
Delta R.T. 0.000 min  
Lab File: BN035279.D  
Acq: 25 Nov 2024 11:28

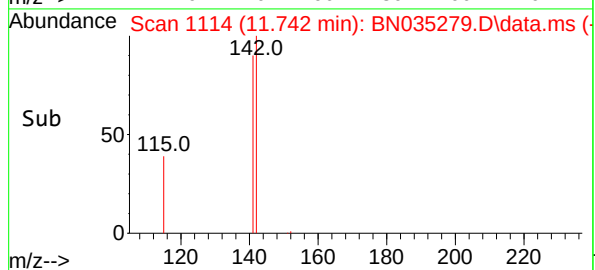
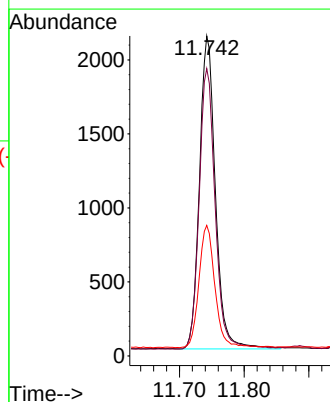
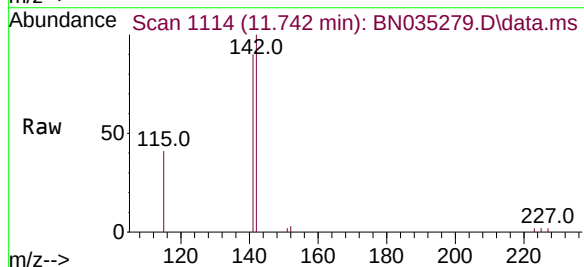
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICCC0.4

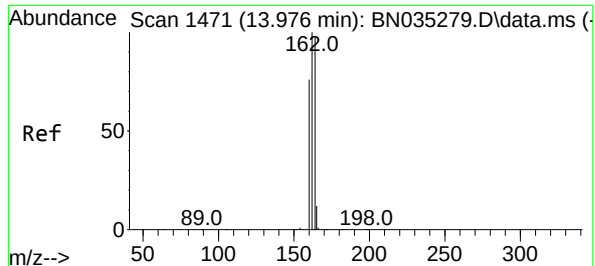
Tgt Ion:152 Resp: 2873  
Ion Ratio Lower Upper  
152 100  
151 21.5 17.2 25.8



#12  
2-Methylnaphthalene  
Concen: 0.353 ng  
RT: 11.742 min Scan# 1114  
Delta R.T. 0.000 min  
Lab File: BN035279.D  
Acq: 25 Nov 2024 11:28

Tgt Ion:142 Resp: 3623  
Ion Ratio Lower Upper  
142 100  
141 89.8 71.8 107.8  
115 40.8 32.6 49.0

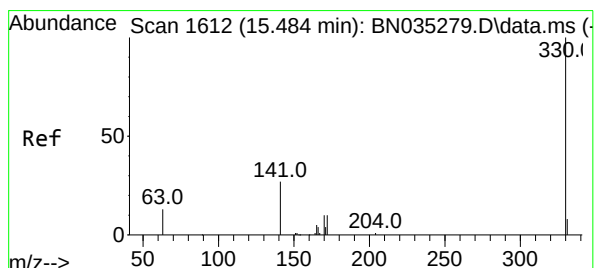
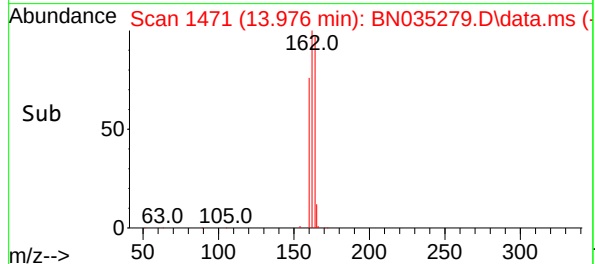
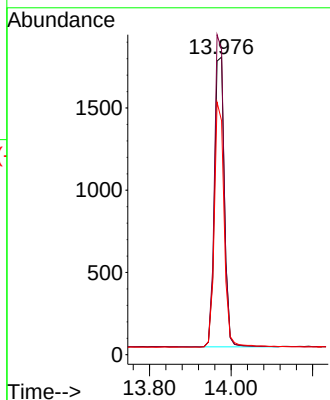
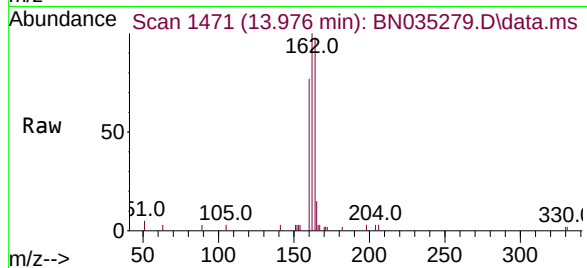




#13  
Acenaphthene-d10  
Concen: 0.400 ng  
RT: 13.976 min Scan# 1471  
Delta R.T. 0.000 min  
Lab File: BN035279.D  
Acq: 25 Nov 2024 11:28

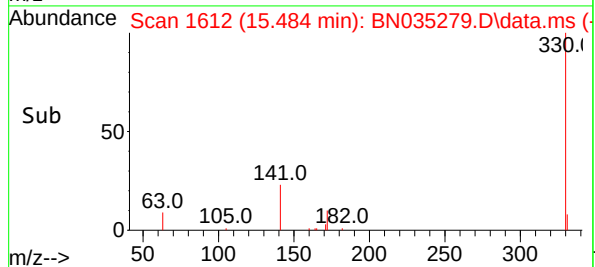
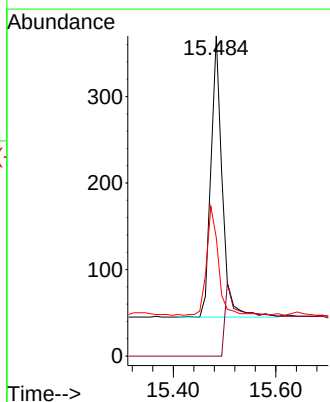
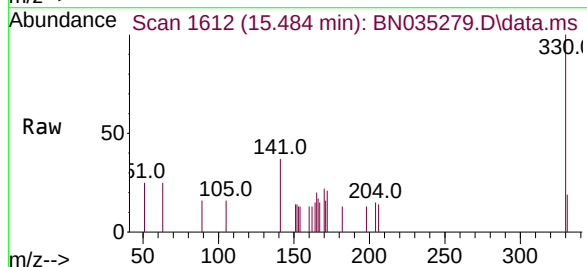
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICCC0.4

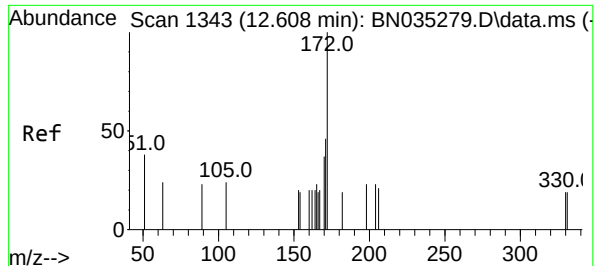
Tgt Ion:164 Resp: 2947  
Ion Ratio Lower Upper  
164 100  
162 102.5 82.0 123.0  
160 78.7 63.0 94.4



#14  
2,4,6-Tribromophenol  
Concen: 0.250 ng  
RT: 15.484 min Scan# 1612  
Delta R.T. 0.000 min  
Lab File: BN035279.D  
Acq: 25 Nov 2024 11:28

Tgt Ion:330 Resp: 531  
Ion Ratio Lower Upper  
330 100  
332 0.0 0.0 0.0  
141 40.5 32.4 48.6

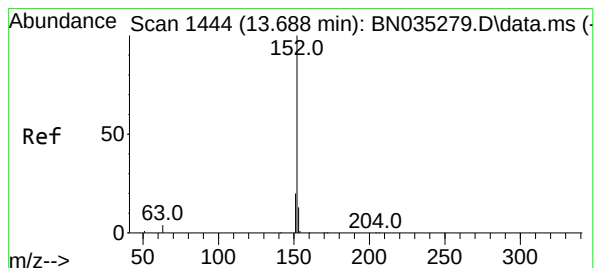
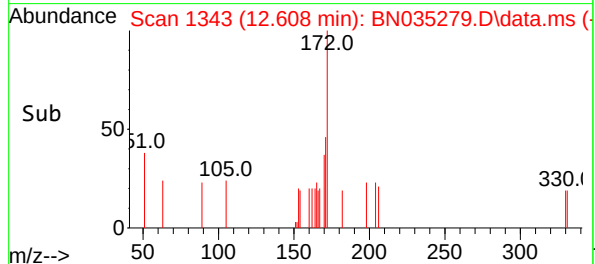
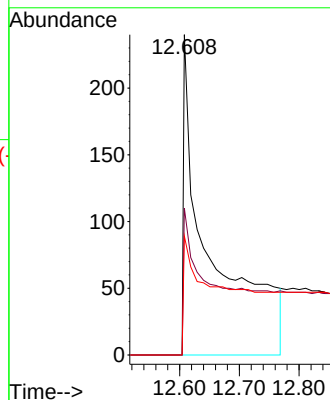
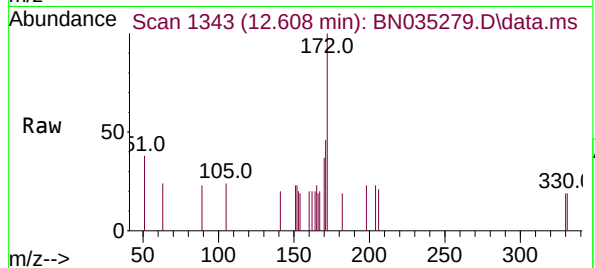




#15  
2-Fluorobiphenyl  
Concen: 0.060 ng  
RT: 12.608 min Scan# 1343  
Delta R.T. 0.000 min  
Lab File: BN035279.D  
Acq: 25 Nov 2024 11:28

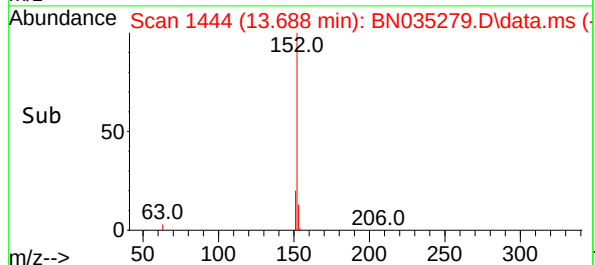
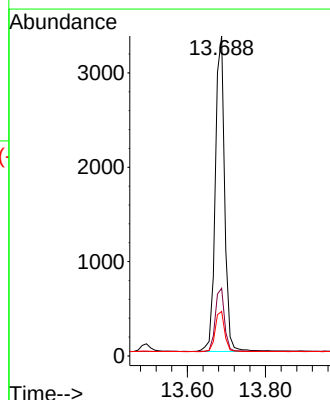
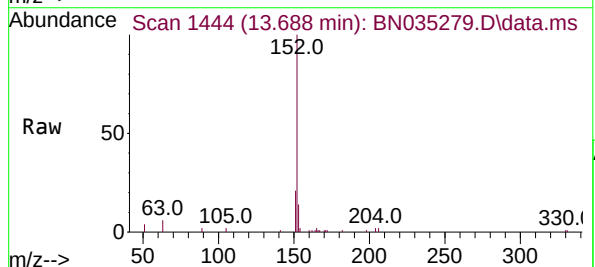
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICCC0.4

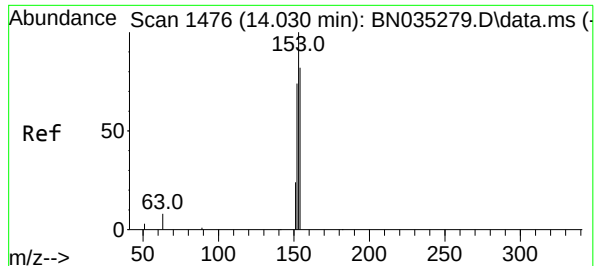
Tgt Ion:172 Resp: 721  
Ion Ratio Lower Upper  
172 100  
171 45.8 36.6 55.0  
170 37.1 29.7 44.5



#16  
Acenaphthylene  
Concen: 0.441 ng  
RT: 13.688 min Scan# 1444  
Delta R.T. 0.000 min  
Lab File: BN035279.D  
Acq: 25 Nov 2024 11:28

Tgt Ion:152 Resp: 5556  
Ion Ratio Lower Upper  
152 100  
151 19.9 15.9 23.9  
153 12.8 10.2 15.4

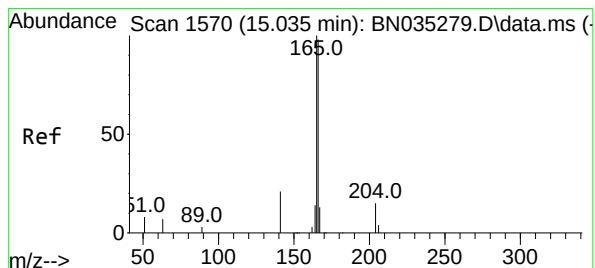
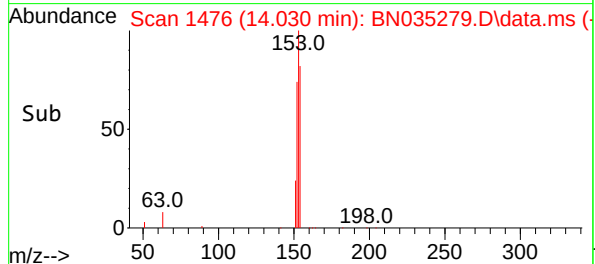
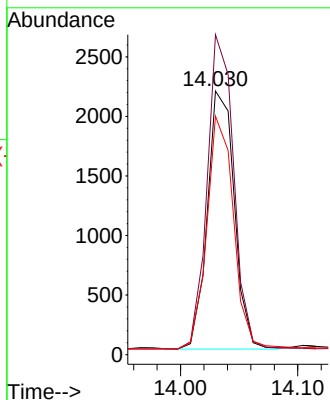
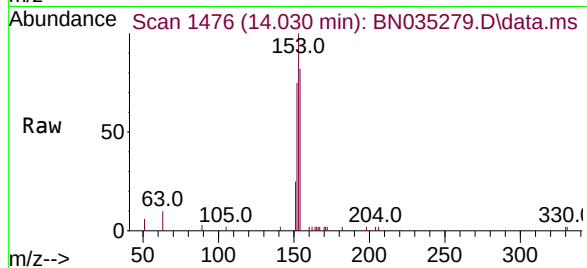




#17  
Acenaphthene  
Concen: 0.420 ng  
RT: 14.030 min Scan# 1476  
Delta R.T. 0.000 min  
Lab File: BN035279.D  
Acq: 25 Nov 2024 11:28

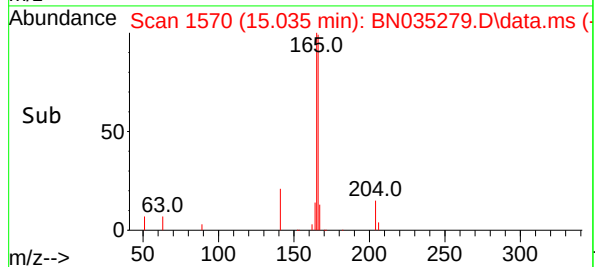
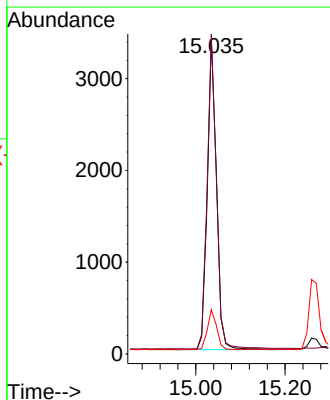
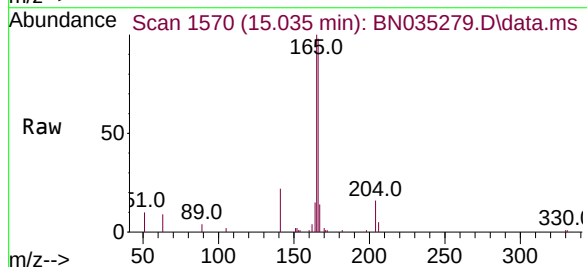
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICCC0.4

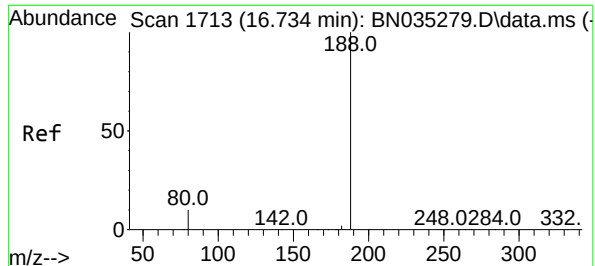
Tgt Ion:154 Resp: 3465  
Ion Ratio Lower Upper  
154 100  
153 120.1 96.1 144.1  
152 90.2 72.2 108.4



#18  
Fluorene  
Concen: 0.397 ng  
RT: 15.035 min Scan# 1570  
Delta R.T. 0.000 min  
Lab File: BN035279.D  
Acq: 25 Nov 2024 11:28

Tgt Ion:166 Resp: 4816  
Ion Ratio Lower Upper  
166 100  
165 101.5 81.2 121.8  
167 13.1 10.5 15.7





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 16.734 min Scan# 1713

Delta R.T. 0.000 min

Lab File: BN035279.D

Acq: 25 Nov 2024 11:28

Instrument :

BNA\_N

ClientSampleId :

SSTDICCC0.4

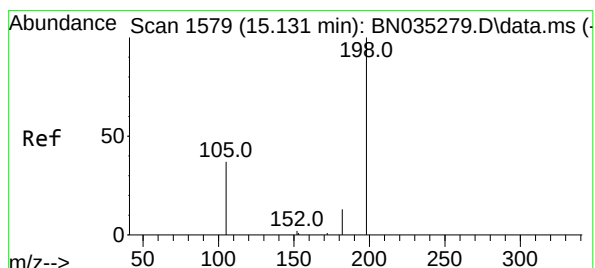
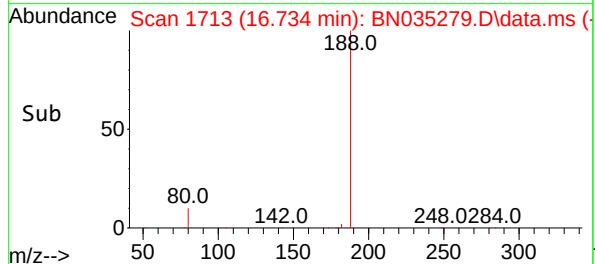
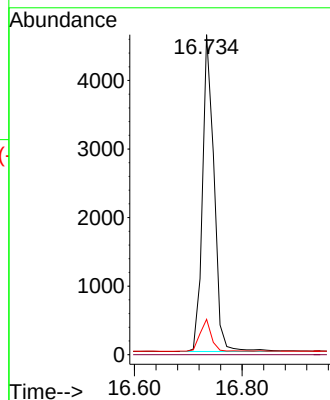
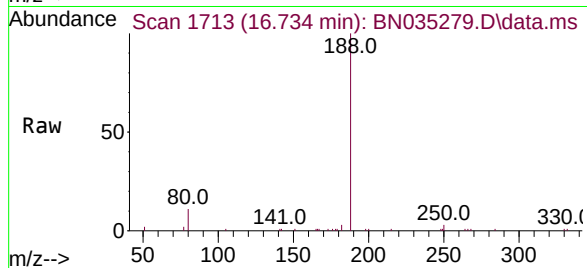
Tgt Ion:188 Resp: 6895

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 11.1 8.9 13.3



#20

4,6-Dinitro-2-methylphenol

Concen: 0.162 ng

RT: 15.131 min Scan# 1579

Delta R.T. 0.000 min

Lab File: BN035279.D

Acq: 25 Nov 2024 11:28

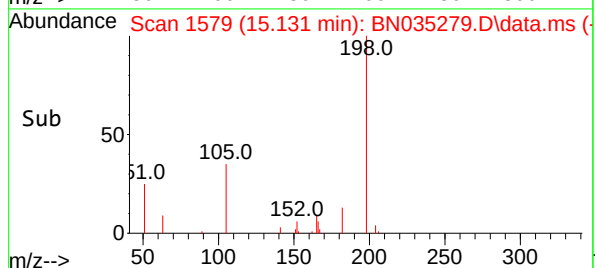
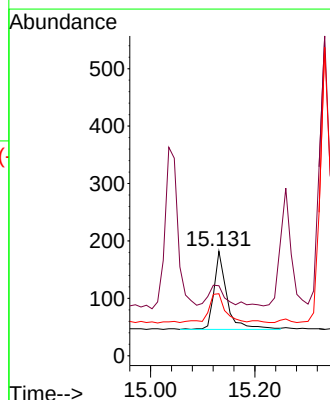
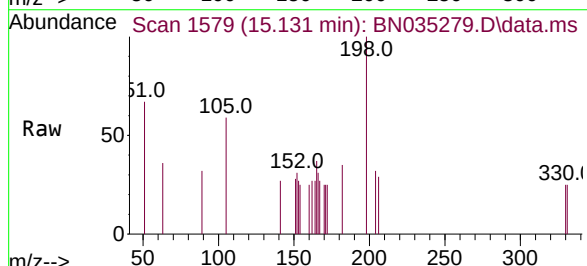
Tgt Ion:198 Resp: 233

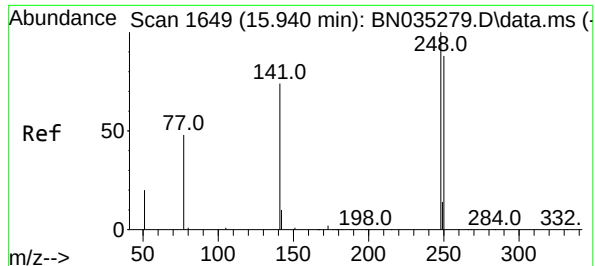
Ion Ratio Lower Upper

198 100

51 67.0 53.6 80.4

105 59.3 47.4 71.2

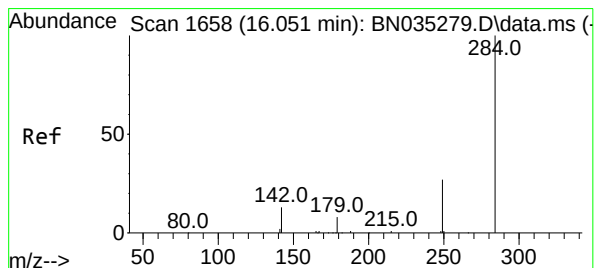
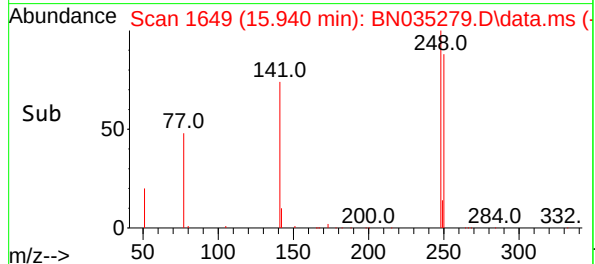
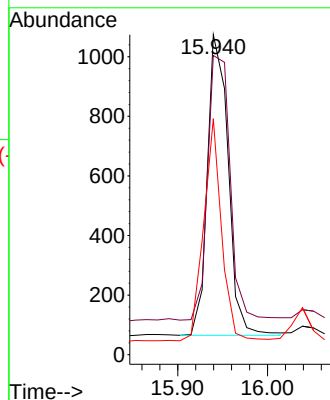
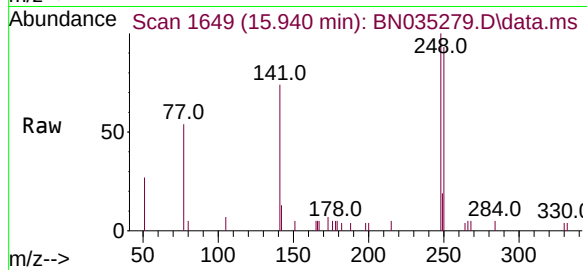




#21  
4-Bromophenyl-phenylether  
Concen: 0.369 ng  
RT: 15.940 min Scan# 1649  
Delta R.T. 0.000 min  
Lab File: BN035279.D  
Acq: 25 Nov 2024 11:28

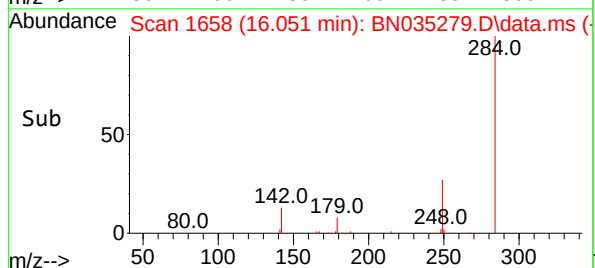
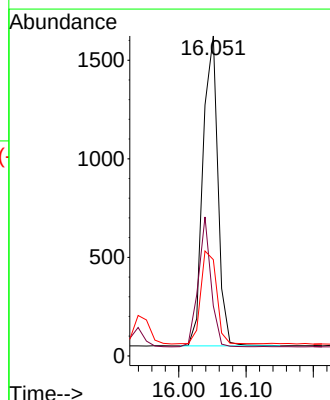
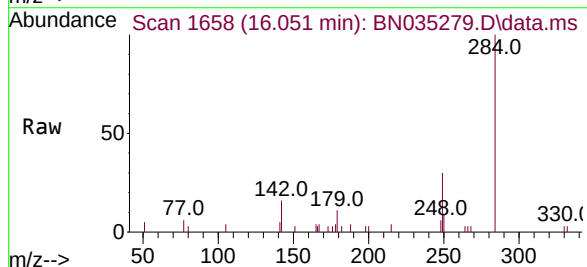
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICCC0.4

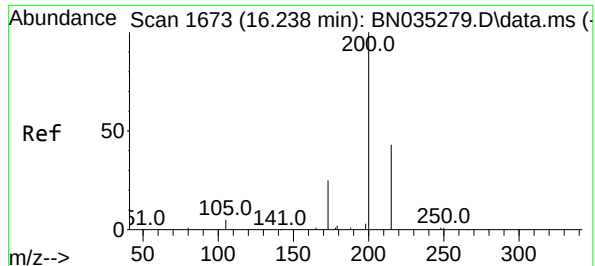
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 248     | 100   |       |       |
| 250     | 93.5  | 74.8  | 112.2 |
| 141     | 73.7  | 59.0  | 88.4  |



#22  
Hexachlorobenzene  
Concen: 0.533 ng  
RT: 16.051 min Scan# 1658  
Delta R.T. 0.000 min  
Lab File: BN035279.D  
Acq: 25 Nov 2024 11:28

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 284     | 100   |       |       |
| 142     | 35.9  | 28.7  | 43.1  |
| 249     | 31.7  | 25.4  | 38.0  |

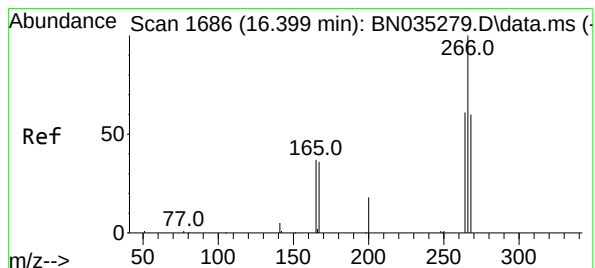
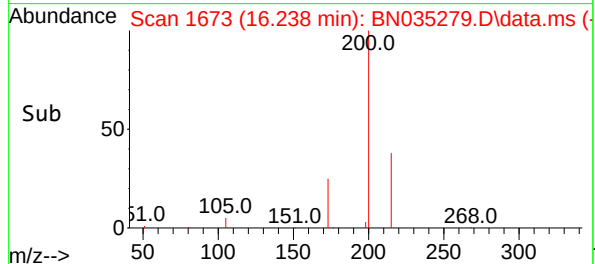
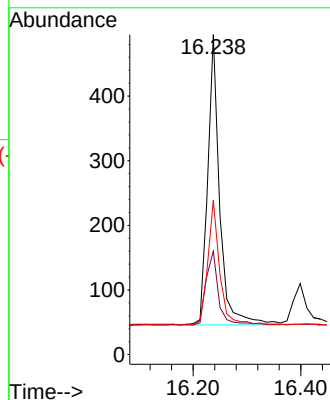
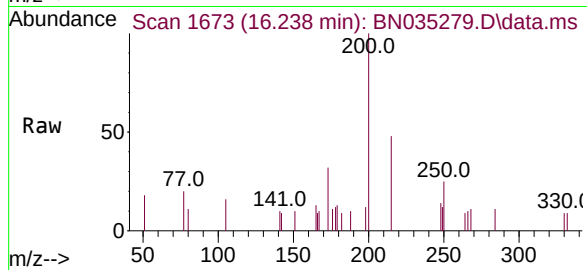




#23  
Atrazine  
Concen: 0.175 ng  
RT: 16.238 min Scan# 1673  
Delta R.T. 0.000 min  
Lab File: BN035279.D  
Acq: 25 Nov 2024 11:28

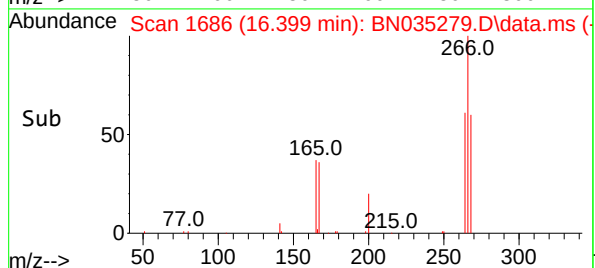
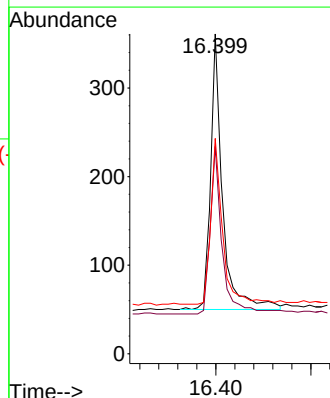
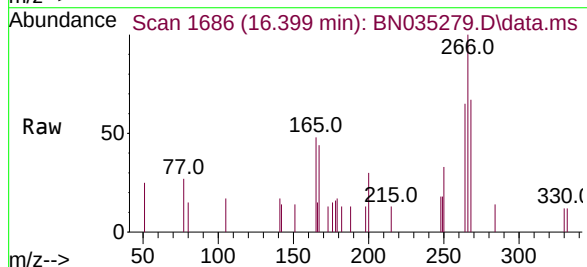
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICCC0.4

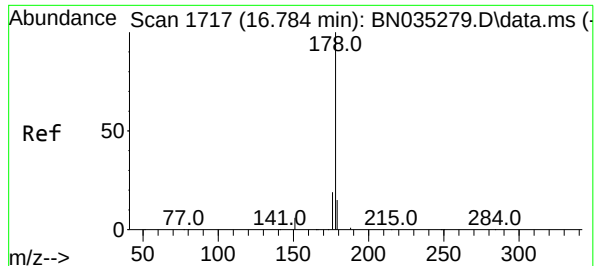
|           |       |       |      |
|-----------|-------|-------|------|
| Tgt Ion:  | 200   | Resp: | 689  |
| Ion Ratio | Lower | Upper |      |
| 200       | 100   |       |      |
| 173       | 32.3  | 25.8  | 38.8 |
| 215       | 48.3  | 38.6  | 58.0 |



#24  
Pentachlorophenol  
Concen: 0.255 ng  
RT: 16.399 min Scan# 1686  
Delta R.T. 0.000 min  
Lab File: BN035279.D  
Acq: 25 Nov 2024 11:28

|           |       |       |      |
|-----------|-------|-------|------|
| Tgt Ion:  | 266   | Resp: | 544  |
| Ion Ratio | Lower | Upper |      |
| 266       | 100   |       |      |
| 264       | 61.6  | 49.3  | 73.9 |
| 268       | 60.8  | 48.6  | 73.0 |

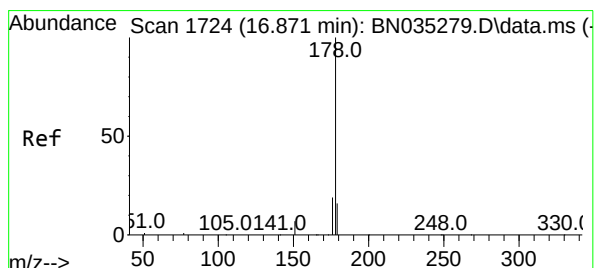
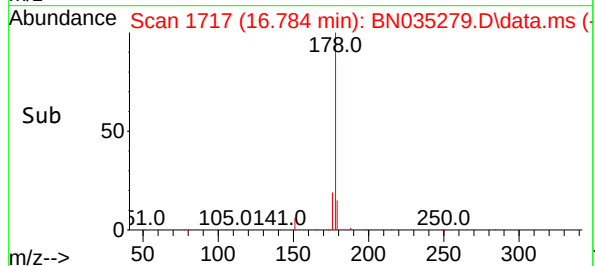
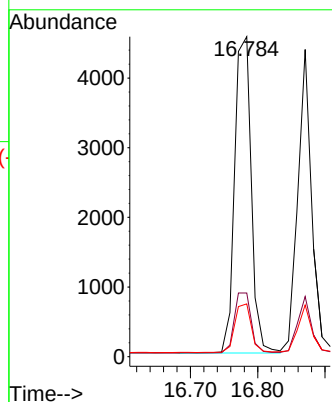
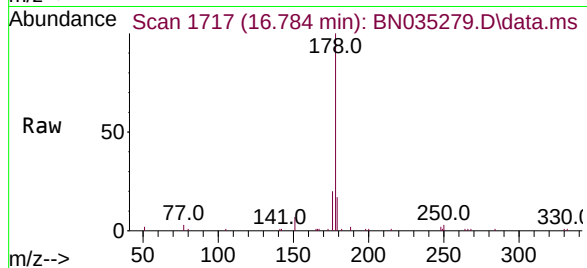




#25  
Phenanthrene  
Concen: 0.430 ng  
RT: 16.784 min Scan# 1717  
Delta R.T. 0.000 min  
Lab File: BN035279.D  
Acq: 25 Nov 2024 11:28

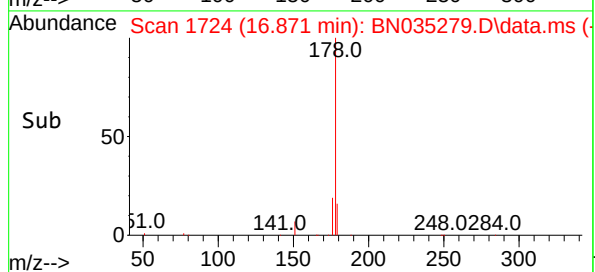
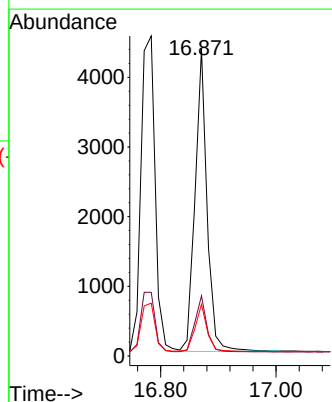
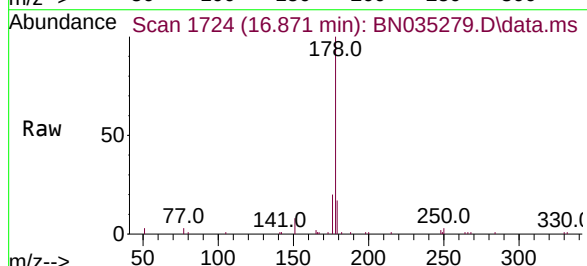
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICCC0.4

Tgt Ion:178 Resp: 7798  
Ion Ratio Lower Upper  
178 100  
176 19.2 15.4 23.0  
179 15.7 12.6 18.8

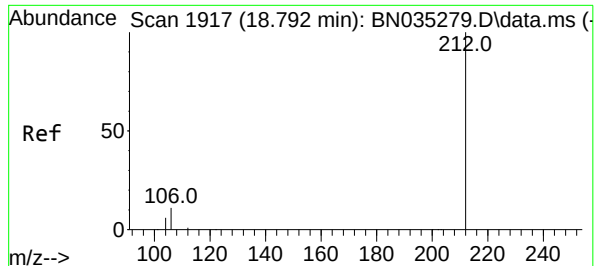


#26  
Anthracene  
Concen: 0.377 ng  
RT: 16.871 min Scan# 1724  
Delta R.T. 0.000 min  
Lab File: BN035279.D  
Acq: 25 Nov 2024 11:28

Tgt Ion:178 Resp: 6280  
Ion Ratio Lower Upper  
178 100  
176 18.7 15.0 22.4  
179 15.5 12.4 18.6







#27

Fluoranthene-d10

Concen: 0.316 ng

RT: 18.792 min Scan# 1917

Delta R.T. 0.000 min

Lab File: BN035279.D

Acq: 25 Nov 2024 11:28

Instrument :

BNA\_N

ClientSampleId :

SSTDICCC0.4

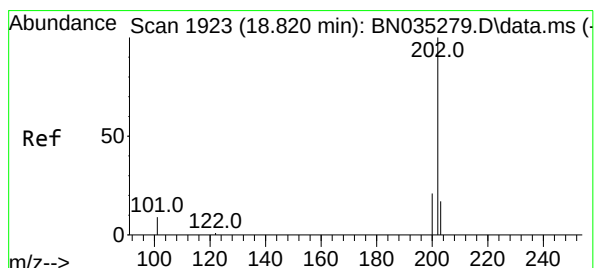
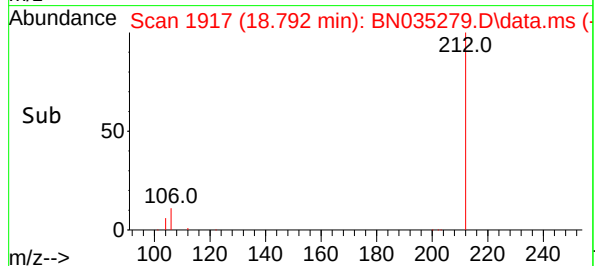
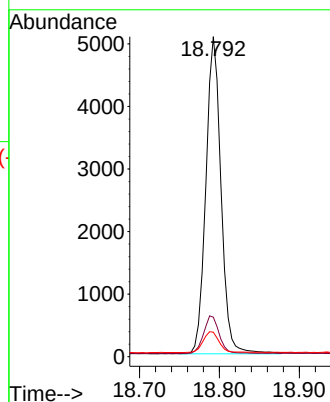
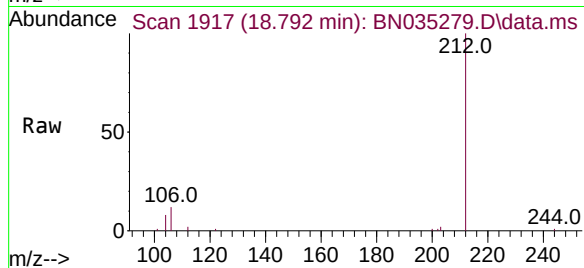
Tgt Ion:212 Resp: 6669

Ion Ratio Lower Upper

212 100

106 12.3 9.8 14.8

104 7.0 5.6 8.4



#28

Fluoranthene

Concen: 0.370 ng

RT: 18.820 min Scan# 1923

Delta R.T. 0.000 min

Lab File: BN035279.D

Acq: 25 Nov 2024 11:28

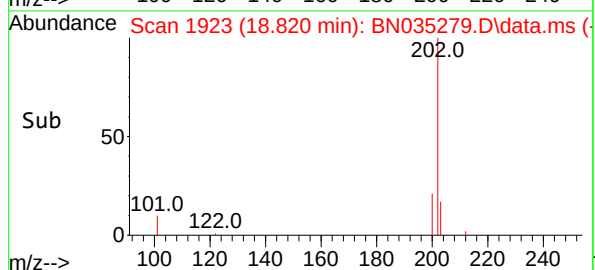
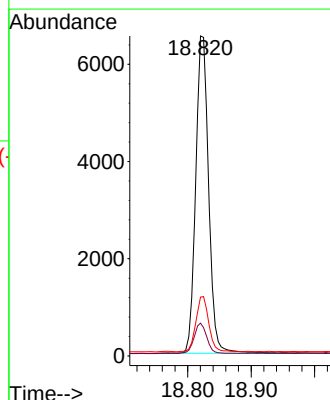
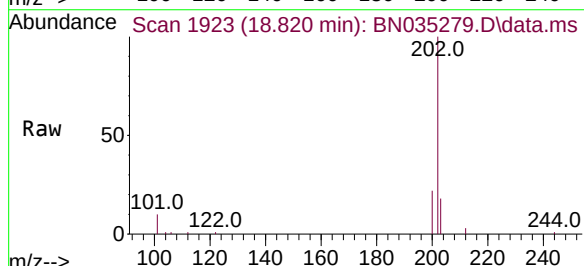
Tgt Ion:202 Resp: 9240

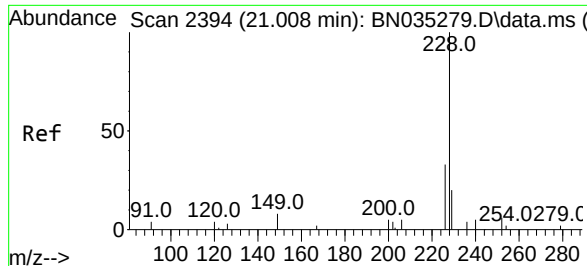
Ion Ratio Lower Upper

202 100

101 9.5 7.6 11.4

203 17.3 13.8 20.8





#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.008 min Scan# 21

Delta R.T. 0.000 min

Lab File: BN035279.D

Acq: 25 Nov 2024 11:28

Instrument :

BNA\_N

ClientSampleId :

SSTDICCC0.4

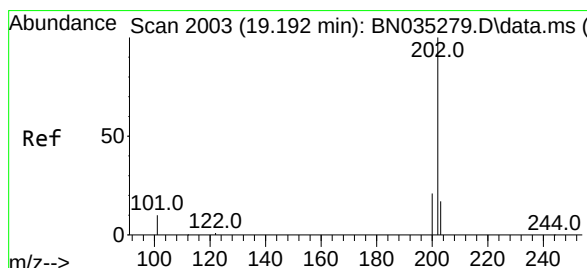
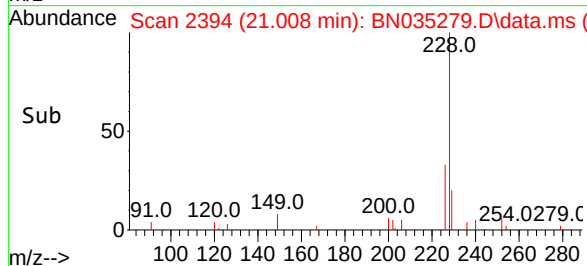
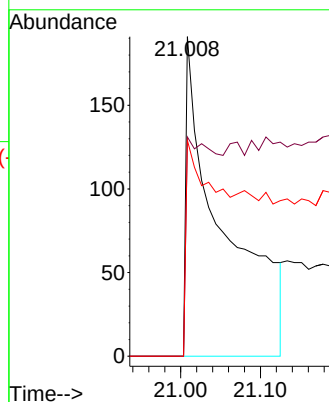
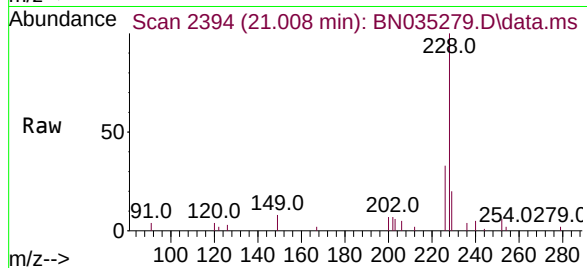
Tgt Ion:240 Resp: 586

Ion Ratio Lower Upper

240 100

120 68.6 54.9 82.3

236 67.5 54.0 81.0



#30

Pyrene

Concen: 4.590 ng

RT: 19.192 min Scan# 2003

Delta R.T. 0.000 min

Lab File: BN035279.D

Acq: 25 Nov 2024 11:28

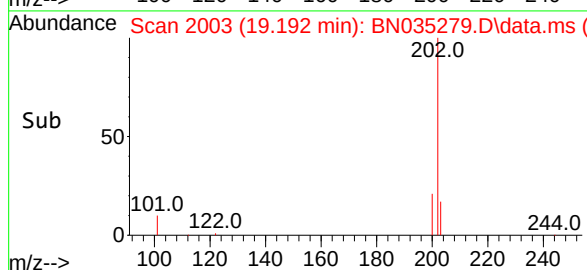
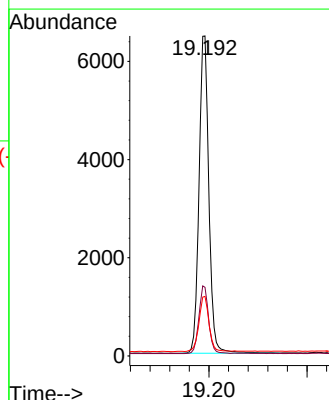
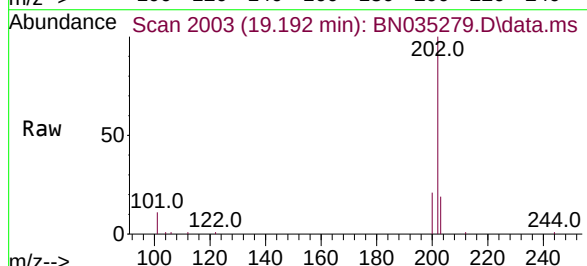
Tgt Ion:202 Resp: 8957

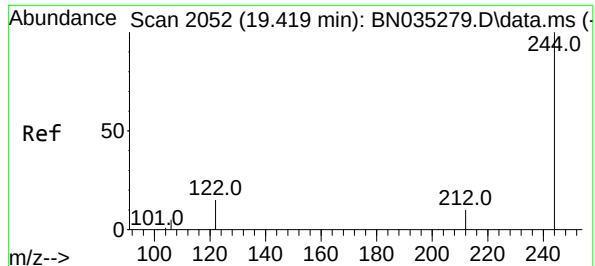
Ion Ratio Lower Upper

202 100

200 21.0 16.8 25.2

203 18.0 14.4 21.6





#31

Terphenyl-d14

Concen: 3.460 ng

RT: 19.419 min Scan# 2052

Delta R.T. 0.000 min

Lab File: BN035279.D

Acq: 25 Nov 2024 11:28

Instrument :

BNA\_N

ClientSampleId :

SSTDICCC0.4

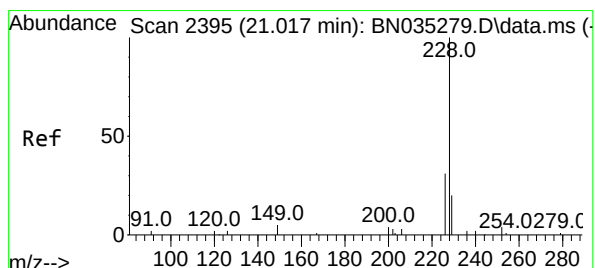
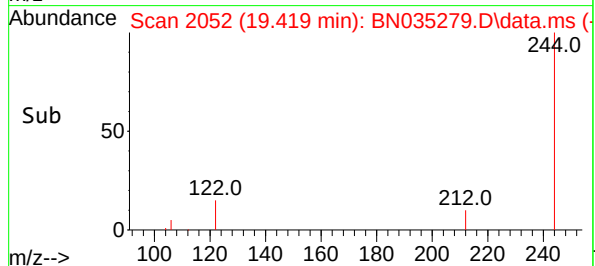
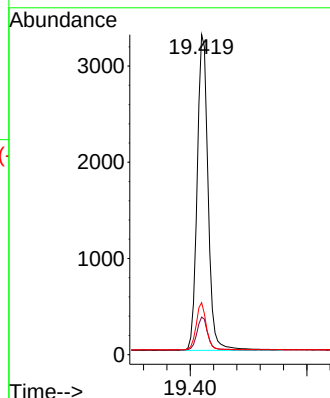
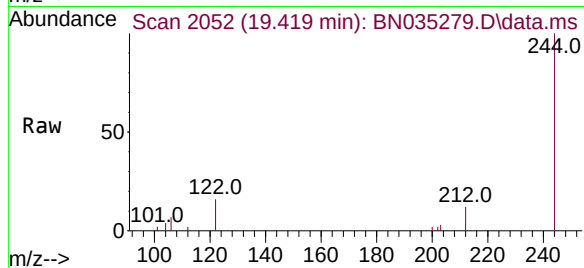
Tgt Ion:244 Resp: 4254

Ion Ratio Lower Upper

244 100

212 11.7 9.4 14.0

122 16.2 13.0 19.4



#32

Benzo(a)anthracene

Concen: 3.970 ng

RT: 21.017 min Scan# 2395

Delta R.T. 0.000 min

Lab File: BN035279.D

Acq: 25 Nov 2024 11:28

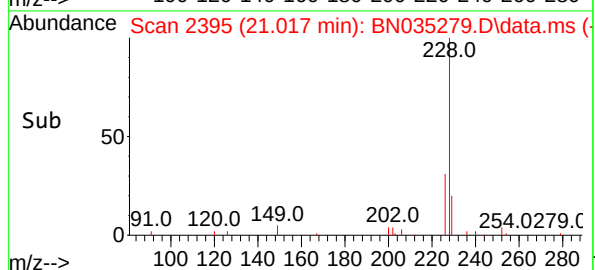
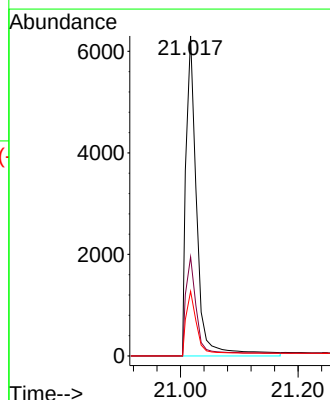
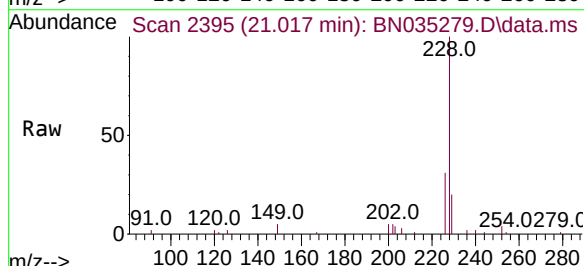
Tgt Ion:228 Resp: 8100

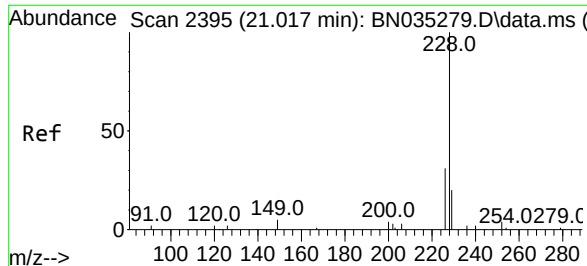
Ion Ratio Lower Upper

228 100

226 30.9 24.7 37.1

229 20.2 16.2 24.2





#33

Chrysene

Concen: 4.007 ng

RT: 21.017 min Scan# 21

Delta R.T. 0.000 min

Lab File: BN035279.D

Acq: 25 Nov 2024 11:28

Instrument :

BNA\_N

ClientSampleId :

SSTDICCC0.4

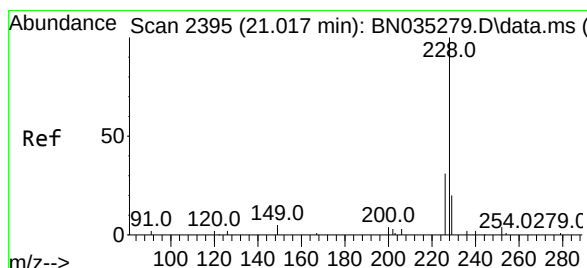
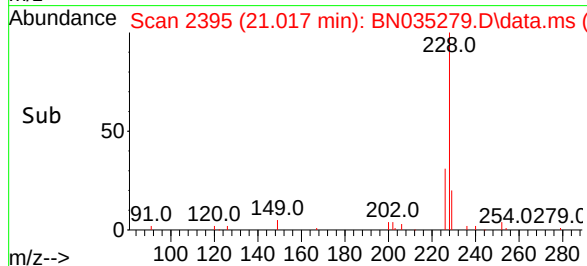
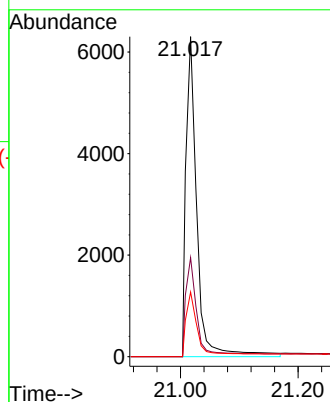
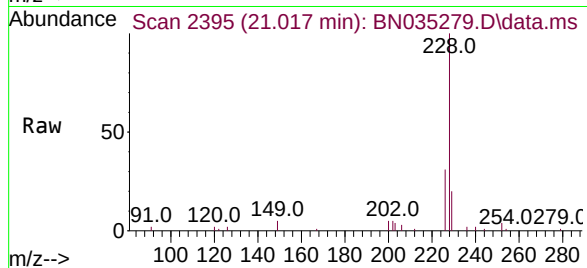
Tgt Ion:228 Resp: 8100

Ion Ratio Lower Upper

228 100

226 30.9 24.7 37.1

229 20.2 16.2 24.2



#34

Bis(2-ethylhexyl)phthalate

Concen: 0.498 ng

RT: 21.017 min Scan# 2395

Delta R.T. 0.000 min

Lab File: BN035279.D

Acq: 25 Nov 2024 11:28

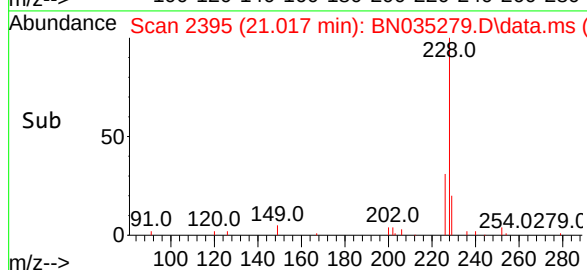
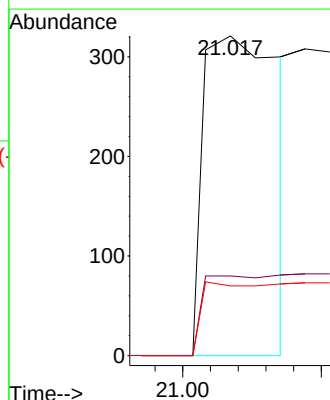
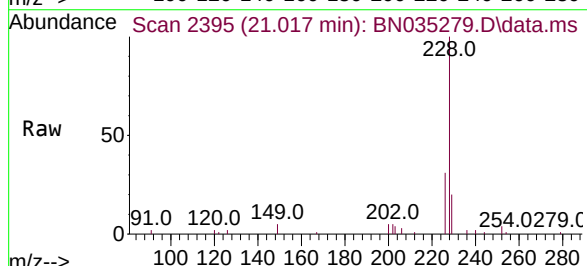
Tgt Ion:149 Resp: 533

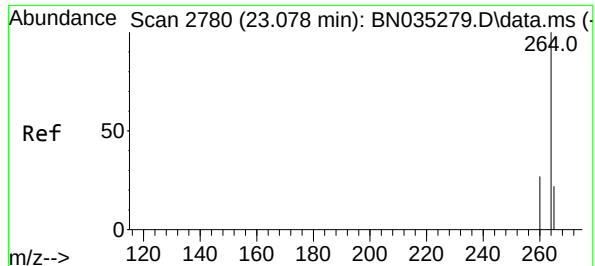
Ion Ratio Lower Upper

149 100

167 0.0 0.0 0.0

279 16.3 13.0 19.6





#35

Perylene-d12

Concen: 0.400 ng

RT: 23.078 min Scan# 21

Delta R.T. 0.000 min

Lab File: BN035279.D

Acq: 25 Nov 2024 11:28

Instrument :

BNA\_N

ClientSampleId :

SSTDICCC0.4

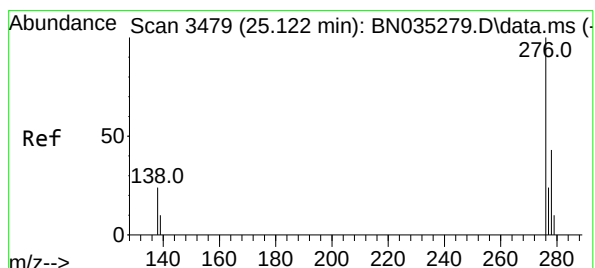
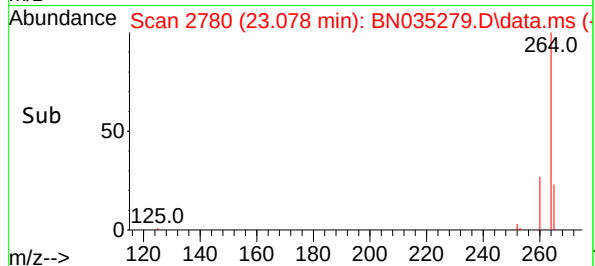
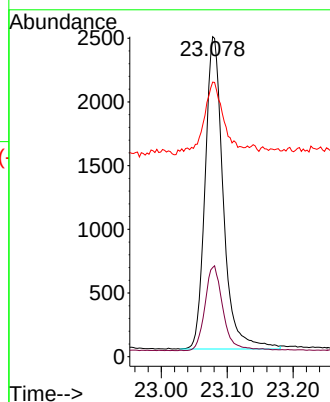
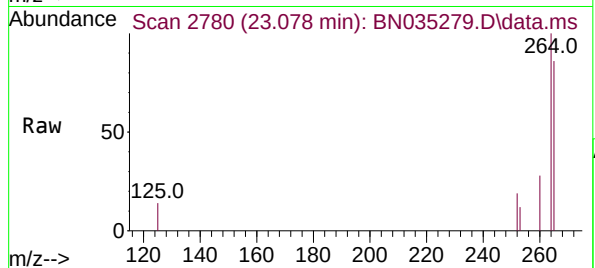
Tgt Ion:264 Resp: 4692

Ion Ratio Lower Upper

264 100

260 27.9 22.3 33.5

265 85.8 68.6 103.0



#36

Indeno(1,2,3-cd)pyrene

Concen: 0.382 ng

RT: 25.122 min Scan# 3479

Delta R.T. 0.000 min

Lab File: BN035279.D

Acq: 25 Nov 2024 11:28

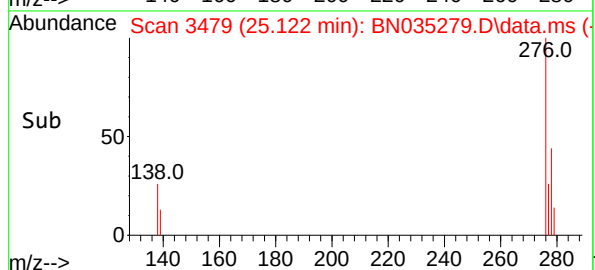
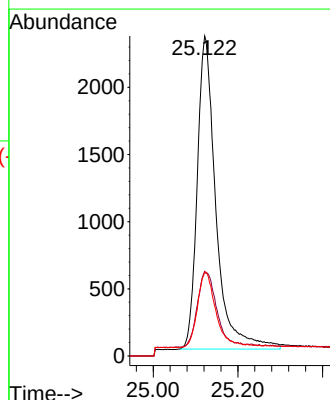
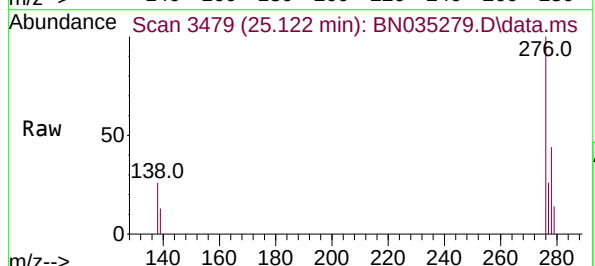
Tgt Ion:276 Resp: 7146

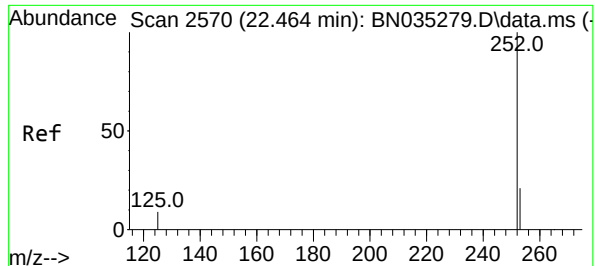
Ion Ratio Lower Upper

276 100

138 23.5 18.8 28.2

277 22.8 18.2 27.4





#37

Benzo(b)fluoranthene

Concen: 0.432 ng

RT: 22.464 min Scan# 2570

Delta R.T. 0.000 min

Lab File: BN035279.D

Acq: 25 Nov 2024 11:28

Instrument :

BNA\_N

ClientSampleId :

SSTDICCC0.4

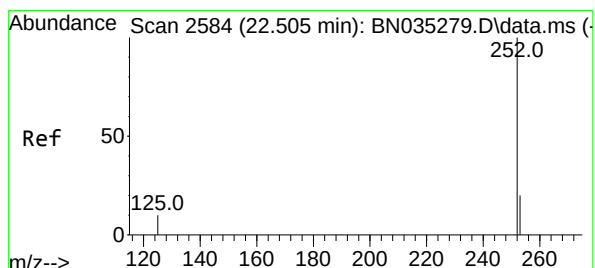
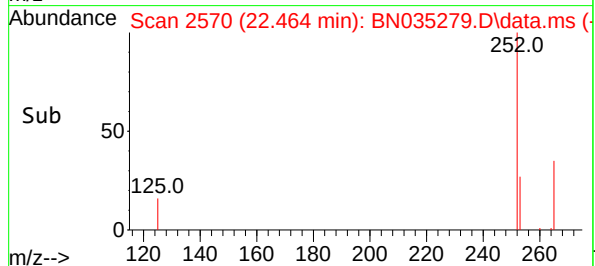
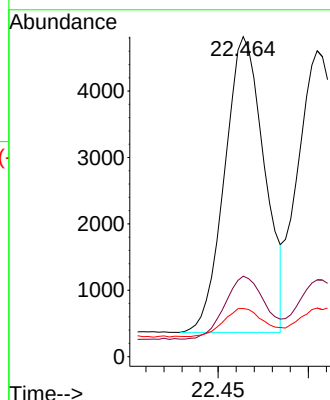
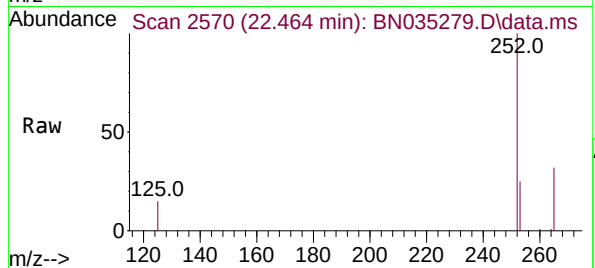
Tgt Ion:252 Resp: 6813

Ion Ratio Lower Upper

252 100

253 25.2 20.2 30.2

125 15.0 12.0 18.0



#38

Benzo(k)fluoranthene

Concen: 0.485 ng

RT: 22.505 min Scan# 2584

Delta R.T. 0.000 min

Lab File: BN035279.D

Acq: 25 Nov 2024 11:28

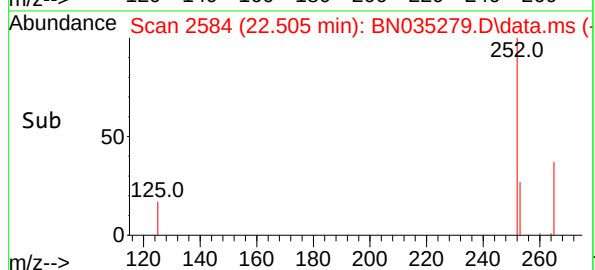
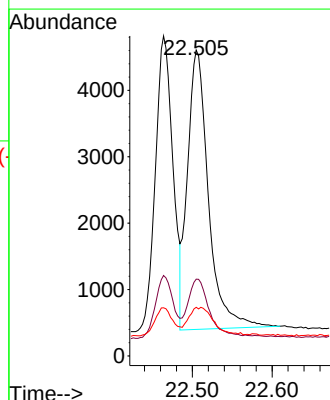
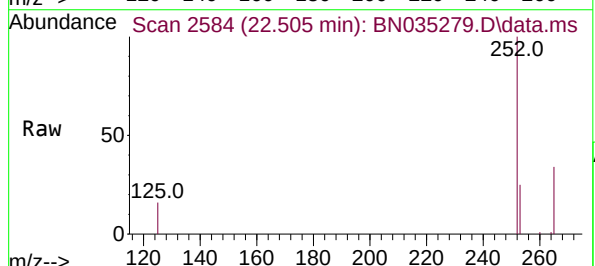
Tgt Ion:252 Resp: 7659

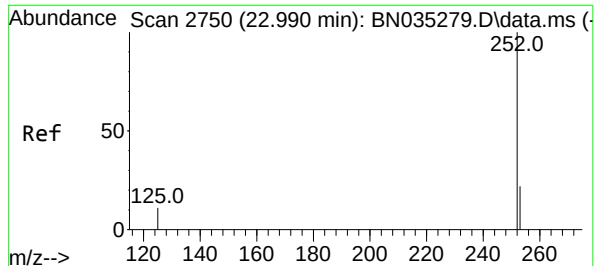
Ion Ratio Lower Upper

252 100

253 25.1 20.1 30.1

125 15.9 12.7 19.1





#39

Benzo(a)pyrene

Concen: 0.386 ng

RT: 22.990 min Scan# 21

Delta R.T. 0.000 min

Lab File: BN035279.D

Acq: 25 Nov 2024 11:28

Instrument :

BNA\_N

ClientSampleId :

SSTDICCC0.4

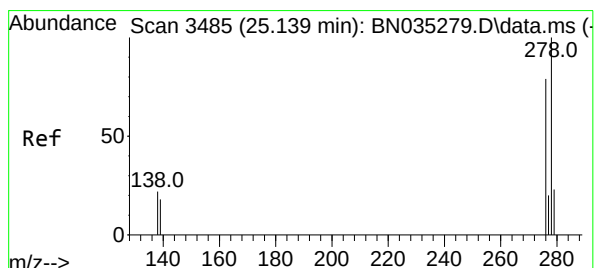
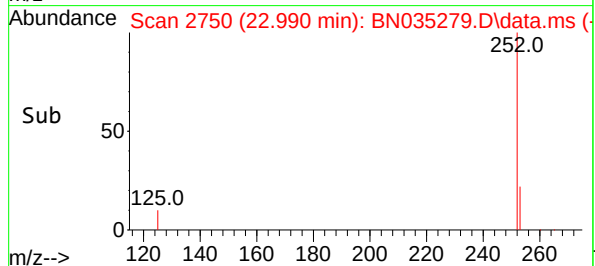
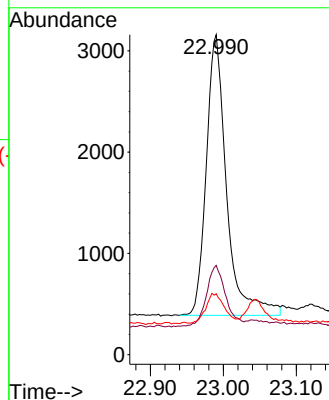
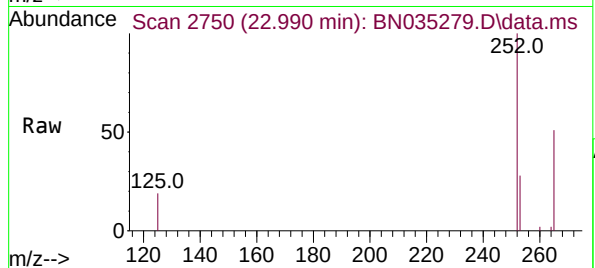
Tgt Ion:252 Resp: 5365

Ion Ratio Lower Upper

252 100

253 27.9 22.3 33.5

125 19.1 15.3 22.9



#40

Dibenzo(a,h)anthracene

Concen: 0.350 ng

RT: 25.139 min Scan# 3485

Delta R.T. 0.000 min

Lab File: BN035279.D

Acq: 25 Nov 2024 11:28

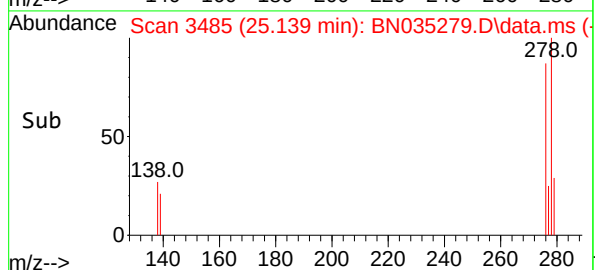
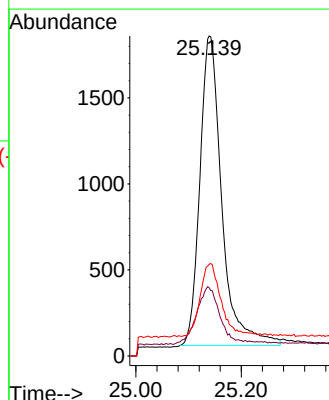
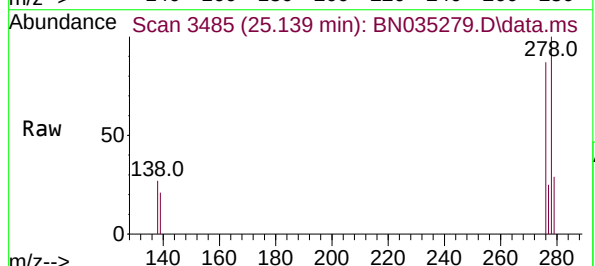
Tgt Ion:278 Resp: 5194

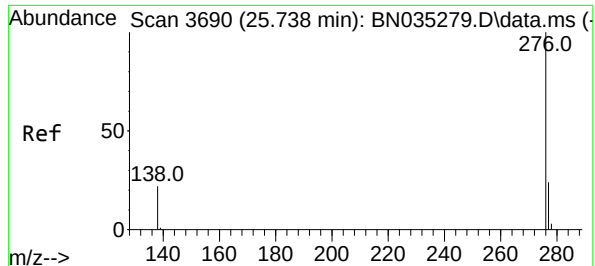
Ion Ratio Lower Upper

278 100

139 21.3 17.0 25.6

279 28.7 23.0 34.4





#41

Benzo(g,h,i)perylene

Concen: 0.369 ng

RT: 25.738 min Scan# 30

Delta R.T. 0.000 min

Lab File: BN035279.D

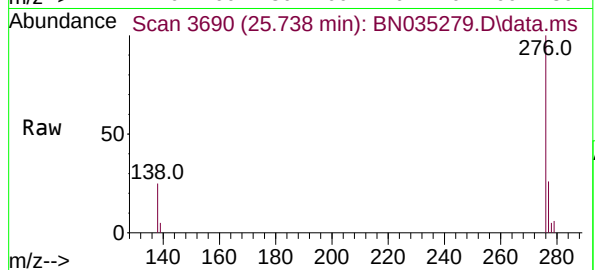
Acq: 25 Nov 2024 11:28

Instrument :

BNA\_N

ClientSampleId :

SSTDICCC0.4



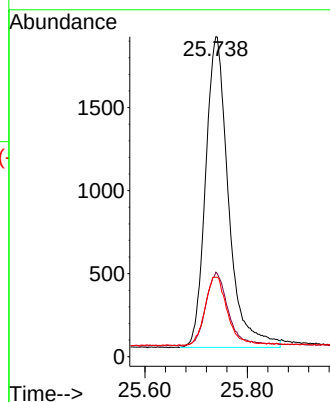
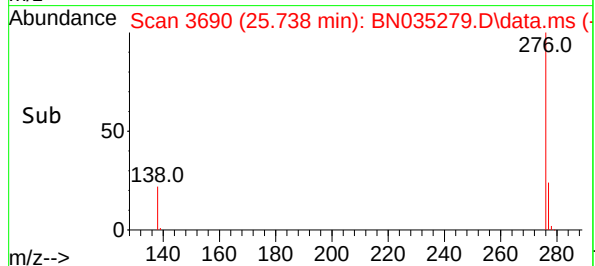
Tgt Ion:276 Resp: 5823

Ion Ratio Lower Upper

276 100

277 26.4 21.1 31.7

138 24.8 19.8 29.8





Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN112524\  
 Data File : BN035280.D  
 Acq On : 25 Nov 2024 12:04  
 Operator : RC/JU  
 Sample : SSTDICC0.8  
 Misc :  
 ALS Vial : 55 Sample Multiplier: 1

Instrument :  
 BNA\_N  
 ClientSampleId :  
 SSTDICC0.8

Quant Time: Nov 25 14:19:24 2024  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\8270-SIM-BN112524.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Mon Nov 25 14:16:35 2024  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc  | Units | Dev(Min) |
|-------------------------------|--------|------|----------|-------|-------|----------|
| -----                         |        |      |          |       |       |          |
| Internal Standards            |        |      |          |       |       |          |
| 1) 1,4-Dichlorobenzene-d4     | 7.315  | 152  | 2258     | 0.400 | ng    | 0.00     |
| 7) Naphthalene-d8             | 10.063 | 136  | 5425     | 0.400 | ng    | 0.00     |
| 13) Acenaphthene-d10          | 13.966 | 164  | 2924     | 0.400 | ng    | -0.01    |
| 19) Phenanthrene-d10          | 16.734 | 188  | 6884     | 0.400 | ng    | 0.00     |
| 29) Chrysene-d12              | 21.008 | 240  | 725      | 0.400 | ng    | 0.00     |
| 35) Perylene-d12              | 23.078 | 264  | 4193     | 0.400 | ng    | 0.00     |
| System Monitoring Compounds   |        |      |          |       |       |          |
| 4) 2-Fluorophenol             | 4.968  | 112  | 3276     | 0.572 | ng    | 0.00     |
| 5) Phenol-d6                  | 6.520  | 99   | 4617     | 0.642 | ng    | 0.00     |
| 8) Nitrobenzene-d5            | 8.450  | 82   | 3545     | 0.751 | ng    | 0.00     |
| 11) 2-Methylnaphthalene-d10   | 11.666 | 152  | 5717     | 0.591 | ng    | 0.00     |
| 14) 2,4,6-Tribromophenol      | 15.484 | 330  | 1086     | 0.515 | ng    | 0.00     |
| 15) 2-Fluorobiphenyl          | 12.608 | 172  | 691      | 0.058 | ng    | 0.00     |
| 27) Fluoranthene-d10          | 18.792 | 212  | 13734    | 0.651 | ng    | 0.00     |
| 31) Terphenyl-d14             | 19.419 | 244  | 8811     | 5.792 | ng    | 0.00     |
| Target Compounds              |        |      |          |       |       |          |
|                               |        |      |          |       |       | Qvalue   |
| 2) 1,4-Dioxane                | 3.003  | 88   | 1187     | 0.579 | ng    | # 83     |
| 3) n-Nitrosodimethylamine     | 3.299  | 42   | 1383     | 0.724 | ng    | # 78     |
| 6) bis(2-Chloroethyl)ether    | 6.766  | 93   | 4007     | 0.743 | ng    | 99       |
| 9) Naphthalene                | 10.116 | 128  | 11664    | 0.824 | ng    | 98       |
| 10) Hexachlorobutadiene       | 10.415 | 225  | 3379     | 0.814 | ng    | # 100    |
| 12) 2-Methylnaphthalene       | 11.742 | 142  | 7328     | 0.701 | ng    | 99       |
| 16) Acenaphthylene            | 13.688 | 152  | 11221    | 0.898 | ng    | 99       |
| 17) Acenaphthene              | 14.030 | 154  | 6985     | 0.853 | ng    | 99       |
| 18) Fluorene                  | 15.035 | 166  | 9874     | 0.820 | ng    | 100      |
| 20) 4,6-Dinitro-2-methylph... | 15.131 | 198  | 542      | 0.378 | ng    | # 71     |
| 21) 4-Bromophenyl-phenylether | 15.939 | 248  | 3203     | 0.730 | ng    | 98       |
| 22) Hexachlorobenzene         | 16.051 | 284  | 5001     | 1.099 | ng    | 99       |
| 23) Atrazine                  | 16.237 | 200  | 1376     | 0.350 | ng    | 95       |
| 24) Pentachlorophenol         | 16.399 | 266  | 1125     | 0.529 | ng    | 96       |
| 25) Phenanthrene              | 16.783 | 178  | 16001    | 0.883 | ng    | 99       |
| 26) Anthracene                | 16.870 | 178  | 13123    | 0.789 | ng    | 99       |
| 28) Fluoranthene              | 18.820 | 202  | 20007    | 0.803 | ng    | 100      |
| 30) Pyrene                    | 19.192 | 202  | 18434    | 7.635 | ng    | 99       |
| 32) Benzo(a)anthracene        | 21.017 | 228  | 16677    | 6.606 | ng    | 99       |
| 33) Chrysene                  | 21.017 | 228  | 16677    | 6.669 | ng    | 99       |
| 34) Bis(2-ethylhexyl)phtha... | 21.008 | 149  | 733      | 0.553 | ng    | # 62     |
| 36) Indeno(1,2,3-cd)pyrene    | 25.124 | 276  | 13203    | 0.789 | ng    | 99       |
| 37) Benzo(b)fluoranthene      | 22.464 | 252  | 14372    | 1.019 | ng    | 95       |
| 38) Benzo(k)fluoranthene      | 22.505 | 252  | 15061    | 1.067 | ng    | # 95     |
| 39) Benzo(a)pyrene            | 22.987 | 252  | 10876    | 0.876 | ng    | # 92     |
| 40) Dibenzo(a,h)anthracene    | 25.139 | 278  | 10078    | 0.760 | ng    | 94       |
| 41) Benzo(g,h,i)perylene      | 25.738 | 276  | 11838    | 0.840 | ng    | 97       |
| -----                         |        |      |          |       |       |          |

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

**Instrument :**  
BNA\_N  
**ClientSampleId :**  
SSTDICC0.8

Abundance

TIC: BN035280.D\data.ms

Time-->

29000

28000

27000

26000

25000

24000

23000

22000

21000

20000

19000

18000

17000

16000

15000

14000

13000

12000

11000

10000

9000

8000

7000

6000

5000

4000

3000

2000

1000

0

4.00

6.00

8.00

10.00

12.00

14.00

16.00

18.00

20.00

22.00

24.00

26.00

28.00

1,4-Dioxane

n-Nitrosodimethylamine

2-Fluorophenol,S

Phenol-d6,S

bis(2-Chloroethyl)ether

1,4-Dichlorobenzene-d4,l

Nitrobenzene-d5,S

Naphthalene-d8,l

Hexachlorobutadiene

Naphthalene

2-Methylnaphthalene

2-Fluorobiphenyl,S

Acenaphthylene-d10,l

Acenaphthylene

Acenaphthene

Fluorene

4,6-Dinitro-2-methylphenol

2,4,6-Trichlorophenol,S

4-Bromophenyl-phenylether

Hexachlorobenzene

Atrazine

Phenanthrene-d10,l

Phenanthrene

Fluoranthene-d10,SURR

Fluoranthene

Pyrene

Terphenyl-d14,S

Bis(2-ethylhexyl)phthalate

Benzofluoranthracene

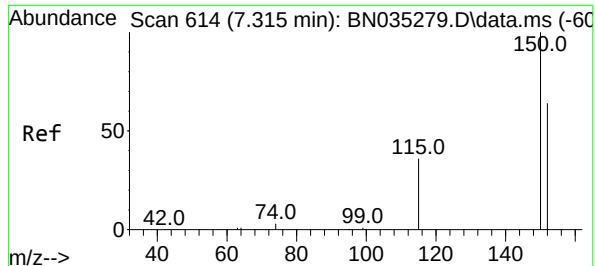
Benzo(a)pyrene

Benzo(a)anthracene

Perylene-d12,l

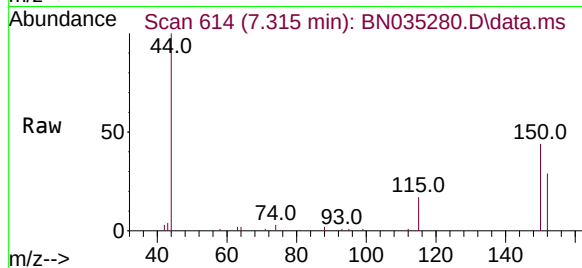
Benzo(g,h,i)perylene

Diindeno(1,2,3-cd:4,5-b')perylene

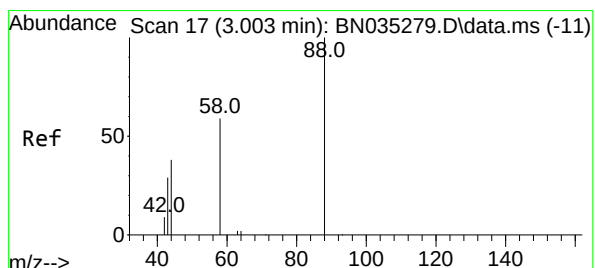
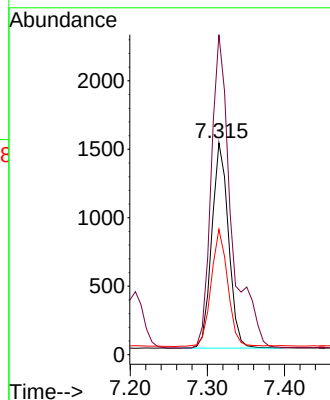
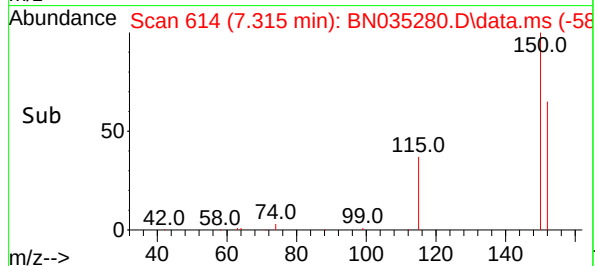


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1,4-Dichlorobenzene-d4  
Concen: 0.400 ng  
RT: 7.315 min Scan# 61  
Delta R.T. -0.000 min  
Lab File: BN035280.D  
Acq: 25 Nov 2024 12:04

Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC0.8

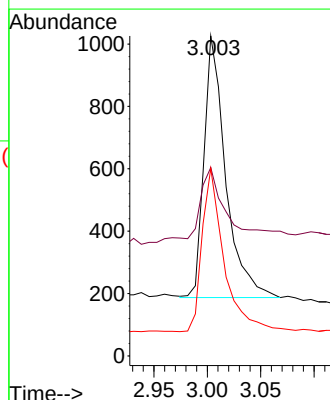
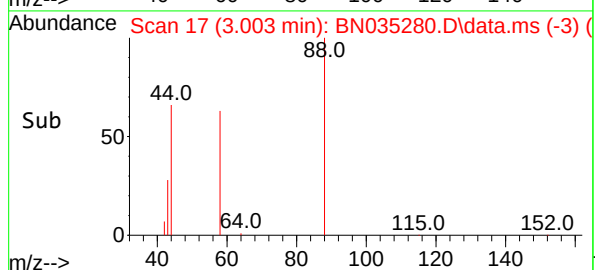
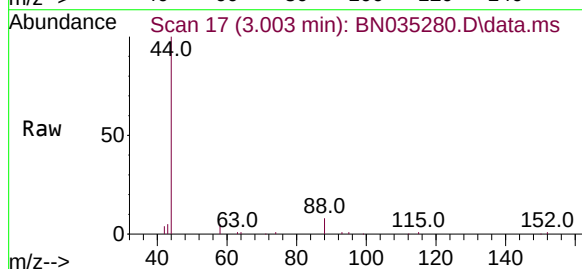


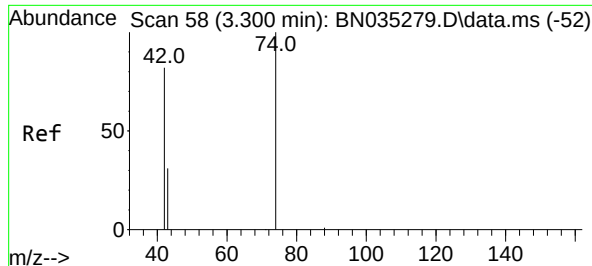
Tgt Ion:152 Resp: 2258  
Ion Ratio Lower Upper  
152 100  
150 151.1 124.5 186.7  
115 59.1 47.8 71.8



#2  
1,4-Dioxane  
Concen: 0.579 ng  
RT: 3.003 min Scan# 17  
Delta R.T. -0.000 min  
Lab File: BN035280.D  
Acq: 25 Nov 2024 12:04

Tgt Ion: 88 Resp: 1187  
Ion Ratio Lower Upper  
88 100  
43 39.6 48.1 72.1#  
58 63.3 46.9 70.3

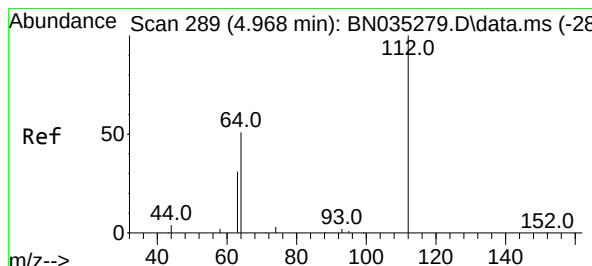
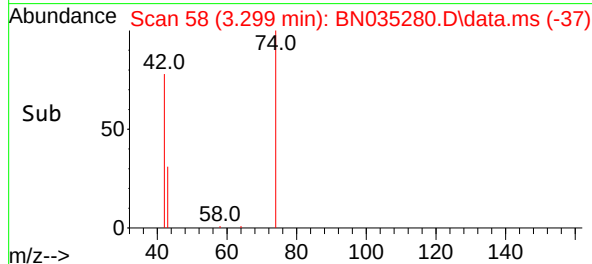
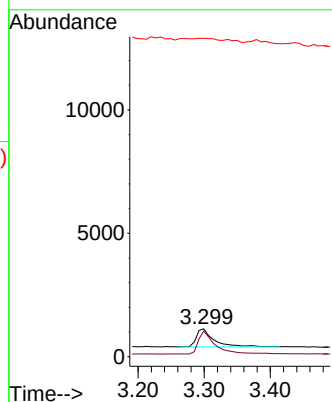
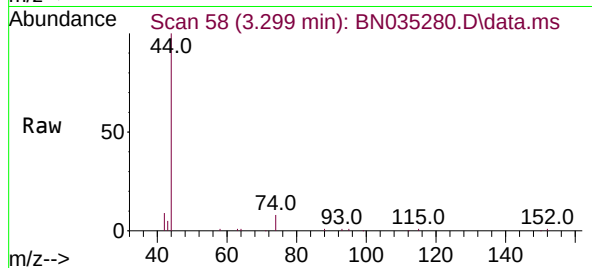




#3  
n-Nitrosodimethylamine  
Concen: 0.724 ng  
RT: 3.299 min Scan# 58  
Delta R.T. -0.000 min  
Lab File: BN035280.D  
Acq: 25 Nov 2024 12:04

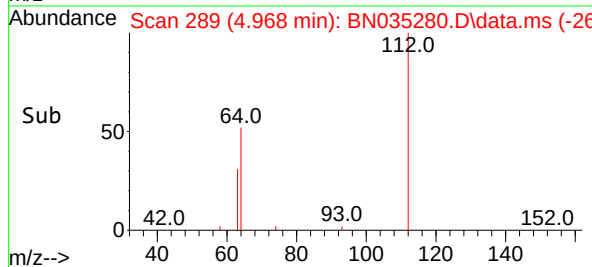
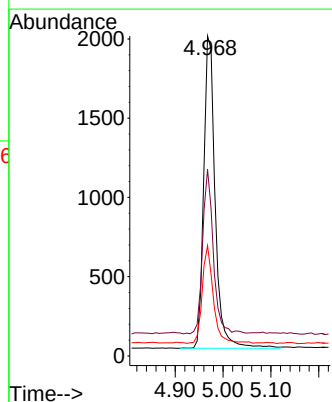
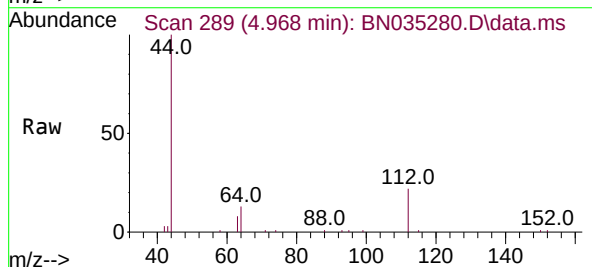
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC0.8

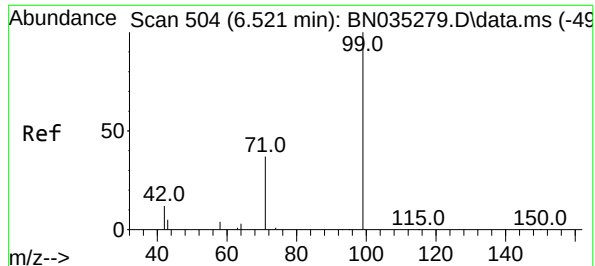
Tgt Ion: 42 Resp: 1383  
Ion Ratio Lower Upper  
42 100  
74 120.0 102.7 154.1  
44 0.0 34.1 51.1#



#4  
2-Fluorophenol  
Concen: 0.572 ng  
RT: 4.968 min Scan# 289  
Delta R.T. -0.000 min  
Lab File: BN035280.D  
Acq: 25 Nov 2024 12:04

Tgt Ion: 112 Resp: 3276  
Ion Ratio Lower Upper  
112 100  
64 49.6 40.4 60.6  
63 30.1 23.8 35.8

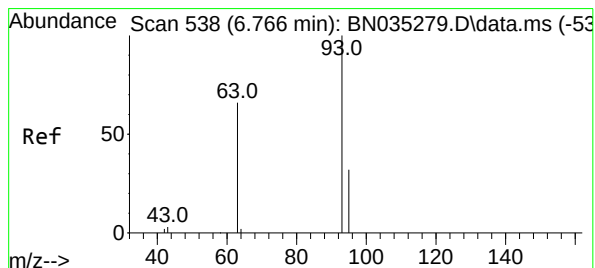
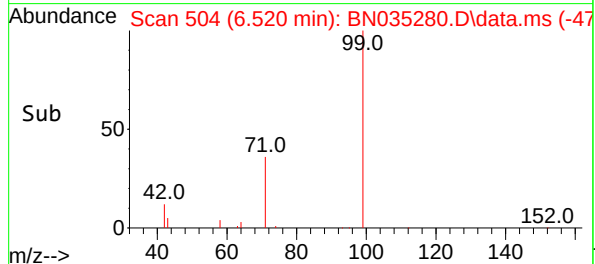
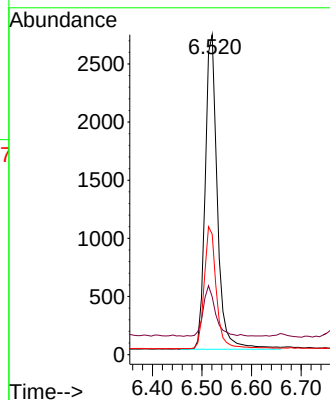
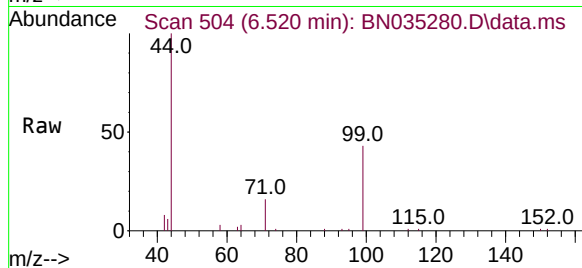




#5  
Phenol-d6  
Concen: 0.642 ng  
RT: 6.520 min Scan# 504  
Delta R.T. -0.000 min  
Lab File: BN035280.D  
Acq: 25 Nov 2024 12:04

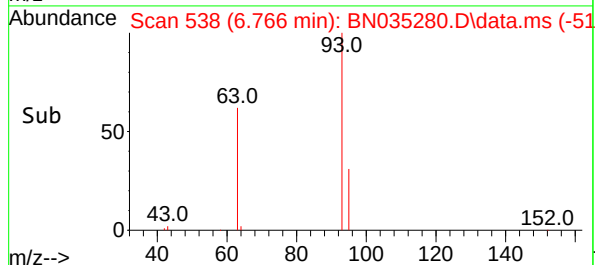
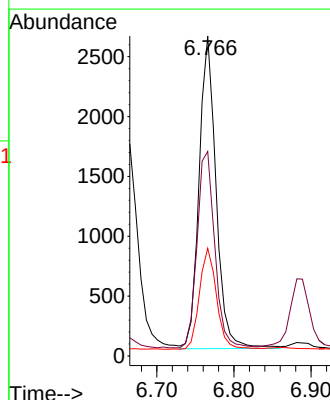
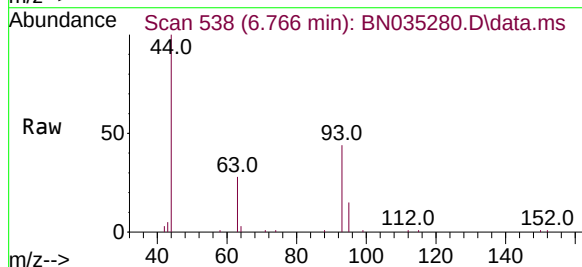
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC0.8

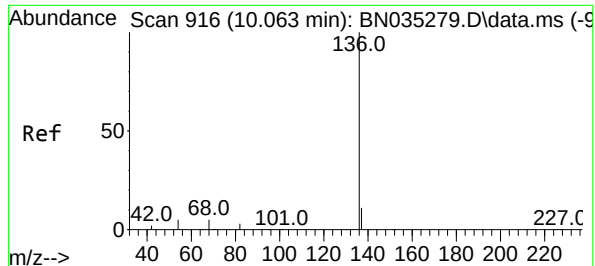
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 99      | 100   |       |       |
| 42      | 16.7  | 12.8  | 19.2  |
| 71      | 38.6  | 31.4  | 47.2  |



#6  
bis(2-Chloroethyl)ether  
Concen: 0.743 ng  
RT: 6.766 min Scan# 538  
Delta R.T. -0.000 min  
Lab File: BN035280.D  
Acq: 25 Nov 2024 12:04

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 93      | 100   |       |       |
| 63      | 65.0  | 52.3  | 78.5  |
| 95      | 32.3  | 25.5  | 38.3  |

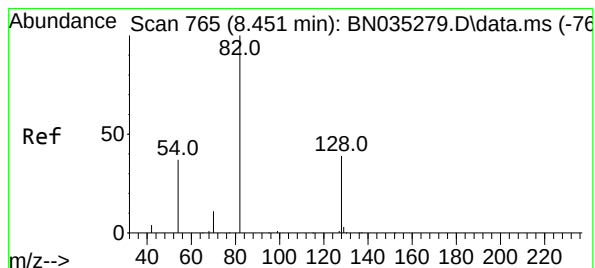
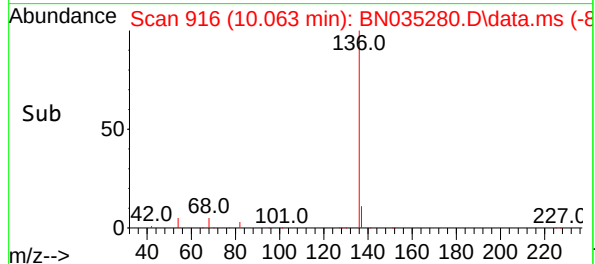
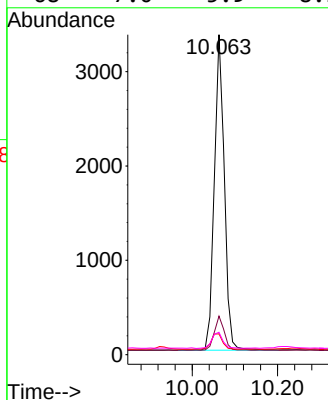
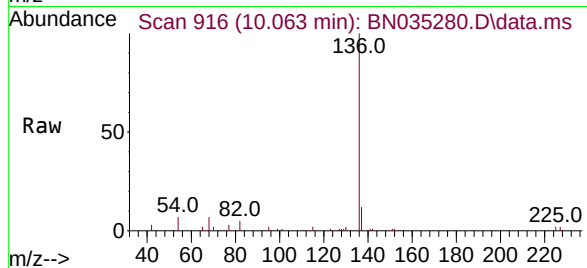




#7  
Naphthalene-d8  
Concen: 0.400 ng  
RT: 10.063 min Scan# 916  
Delta R.T. -0.000 min  
Lab File: BN035280.D  
Acq: 25 Nov 2024 12:04

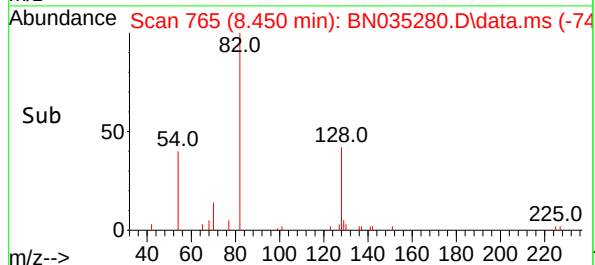
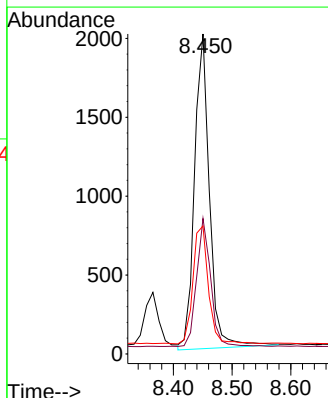
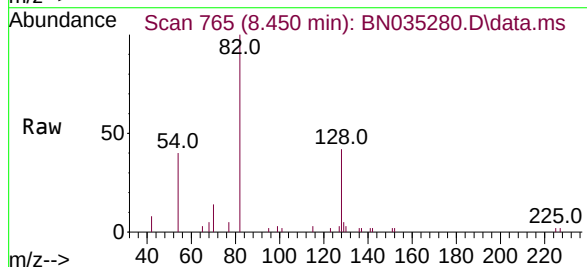
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC0.8

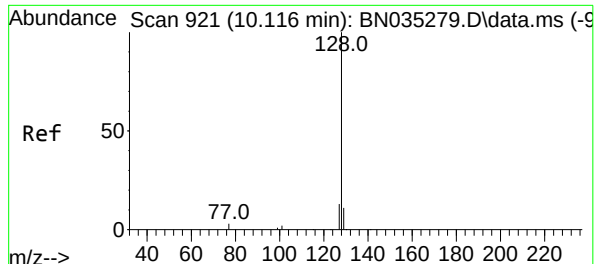
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 136   | Resp: | 5425  |
| Ion      | Ratio | Lower | Upper |
| 136      | 100   |       |       |
| 137      | 12.1  | 9.7   | 14.5  |
| 54       | 6.5   | 5.3   | 7.9   |
| 68       | 7.0   | 5.9   | 8.9   |



#8  
Nitrobenzene-d5  
Concen: 0.751 ng  
RT: 8.450 min Scan# 765  
Delta R.T. -0.000 min  
Lab File: BN035280.D  
Acq: 25 Nov 2024 12:04

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 82    | Resp: | 3545  |
| Ion      | Ratio | Lower | Upper |
| 82       | 100   |       |       |
| 128      | 42.4  | 33.0  | 49.4  |
| 54       | 40.0  | 33.3  | 49.9  |

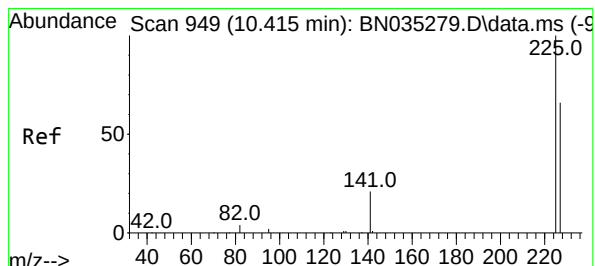
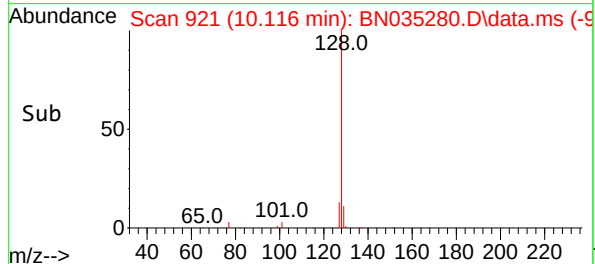
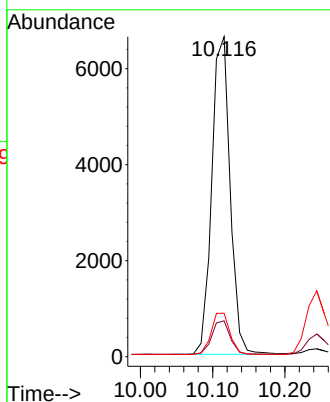
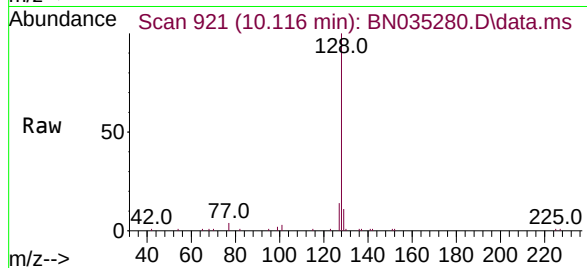




#9  
Naphthalene  
Concen: 0.824 ng  
RT: 10.116 min Scan# 921  
Delta R.T. -0.000 min  
Lab File: BN035280.D  
Acq: 25 Nov 2024 12:04

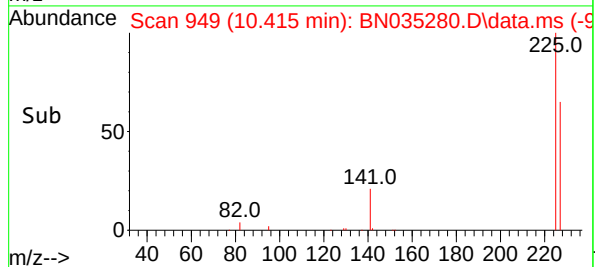
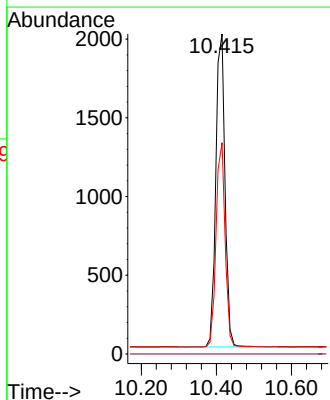
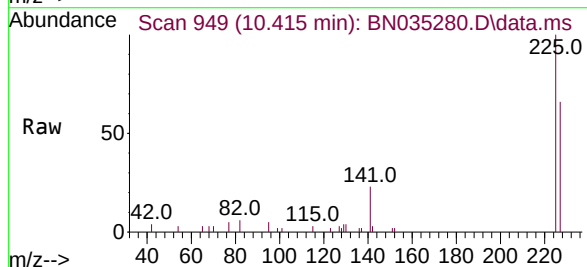
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC0.8

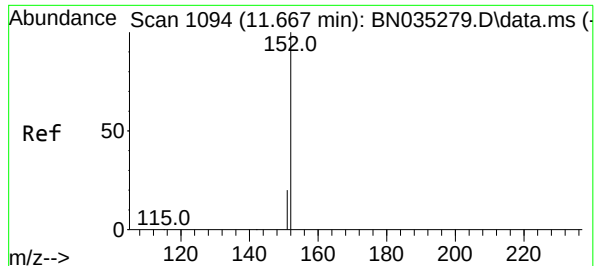
Tgt Ion:128 Resp: 11664  
Ion Ratio Lower Upper  
128 100  
129 11.2 9.6 14.4  
127 13.6 11.3 16.9



#10  
Hexachlorobutadiene  
Concen: 0.814 ng  
RT: 10.415 min Scan# 949  
Delta R.T. -0.000 min  
Lab File: BN035280.D  
Acq: 25 Nov 2024 12:04

Tgt Ion:225 Resp: 3379  
Ion Ratio Lower Upper  
225 100  
223 0.0 0.0 0.0  
227 64.1 51.3 76.9

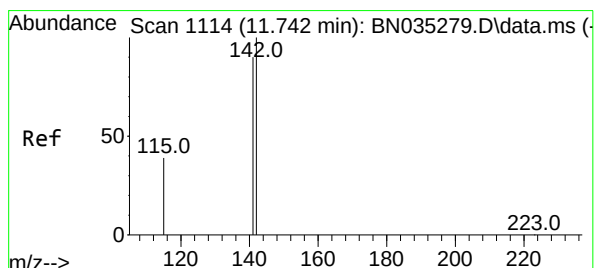
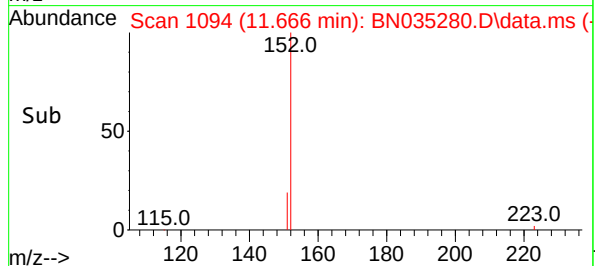
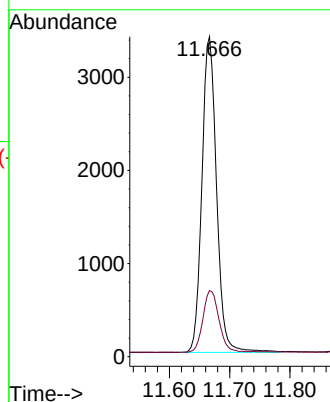
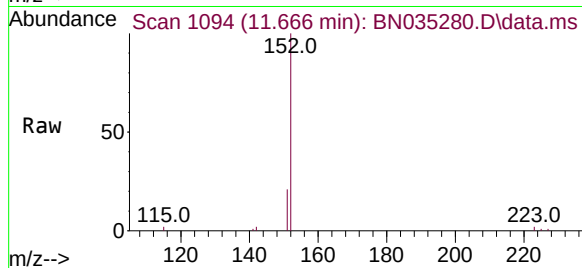




#11  
2-Methylnaphthalene-d10  
Concen: 0.591 ng  
RT: 11.666 min Scan# 1094  
Delta R.T. -0.000 min  
Lab File: BN035280.D  
Acq: 25 Nov 2024 12:04

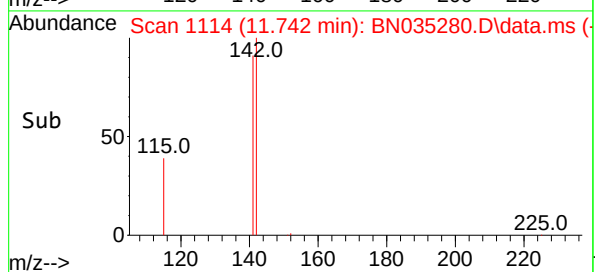
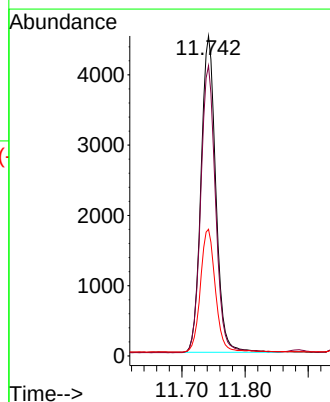
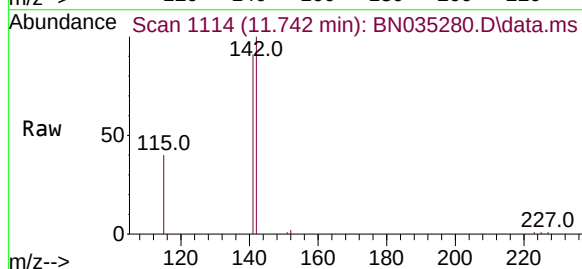
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC0.8

Tgt Ion:152 Resp: 5717  
Ion Ratio Lower Upper  
152 100  
151 21.5 17.2 25.8

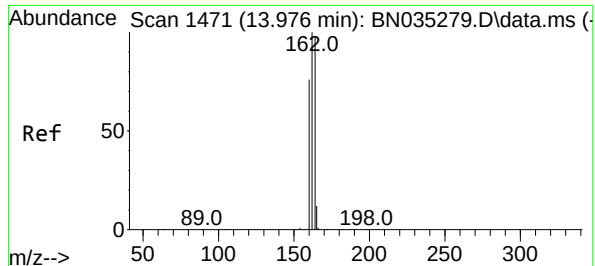


#12  
2-Methylnaphthalene  
Concen: 0.701 ng  
RT: 11.742 min Scan# 1114  
Delta R.T. -0.000 min  
Lab File: BN035280.D  
Acq: 25 Nov 2024 12:04

Tgt Ion:142 Resp: 7328  
Ion Ratio Lower Upper  
142 100  
141 90.7 71.8 107.8  
115 39.6 32.6 49.0



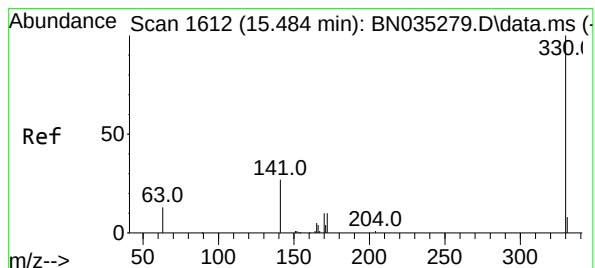
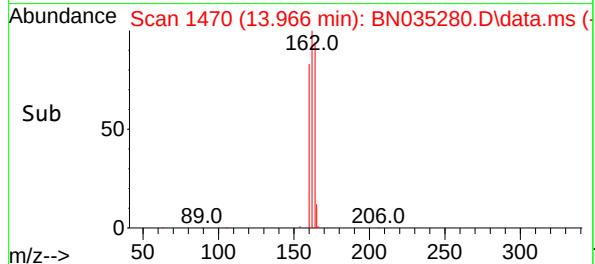
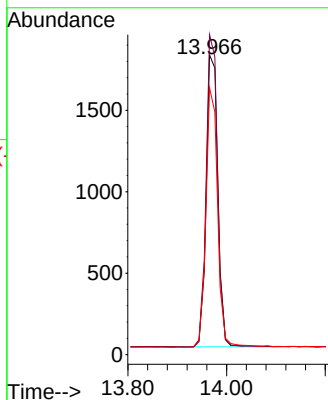
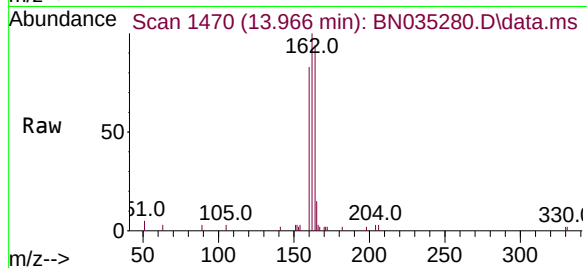




#13  
Acenaphthene-d10  
Concen: 0.400 ng  
RT: 13.966 min Scan# 1471  
Delta R.T. -0.011 min  
Lab File: BN035280.D  
Acq: 25 Nov 2024 12:04

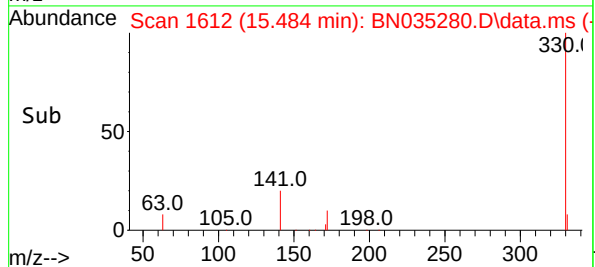
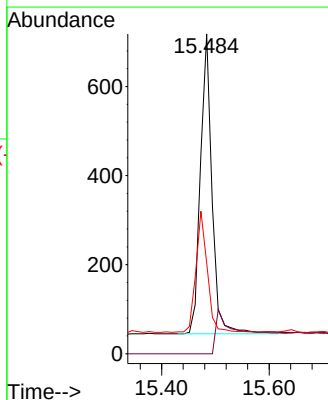
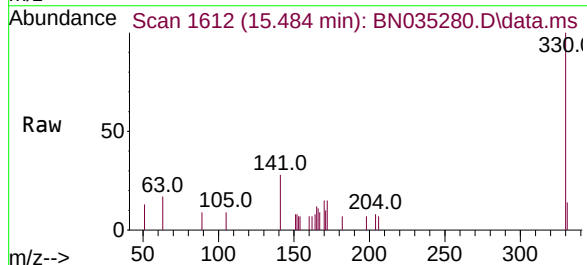
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC0.8

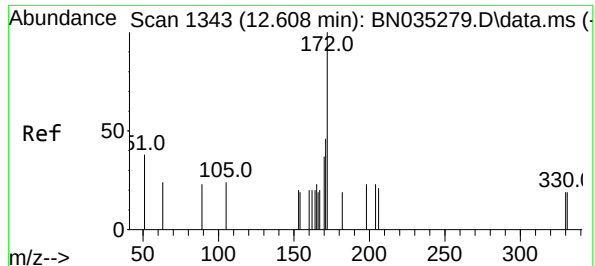
Tgt Ion:164 Resp: 2924  
Ion Ratio Lower Upper  
164 100  
162 106.8 82.0 123.0  
160 89.1 63.0 94.4



#14  
2,4,6-Tribromophenol  
Concen: 0.515 ng  
RT: 15.484 min Scan# 1612  
Delta R.T. -0.000 min  
Lab File: BN035280.D  
Acq: 25 Nov 2024 12:04

Tgt Ion:330 Resp: 1086  
Ion Ratio Lower Upper  
330 100  
332 0.0 0.0 0.0  
141 39.4 32.4 48.6

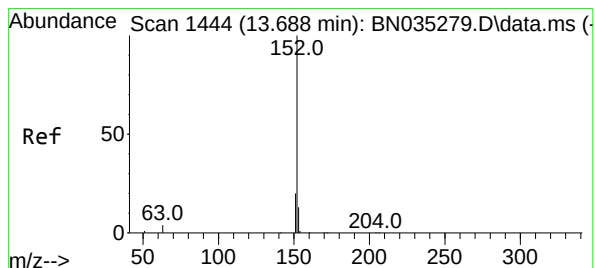
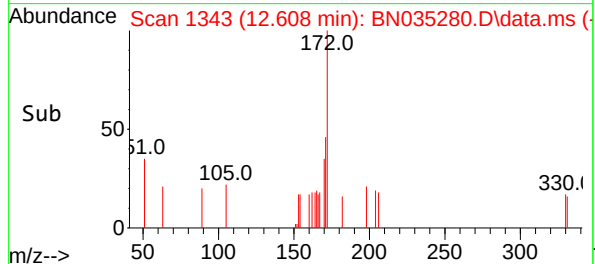
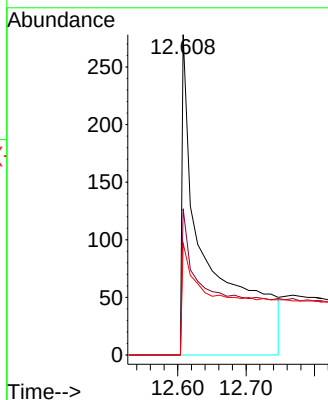
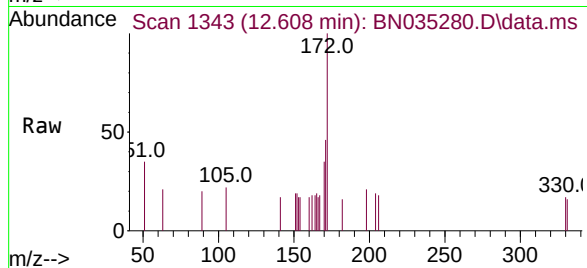




#15  
2-Fluorobiphenyl  
Concen: 0.058 ng  
RT: 12.608 min Scan# 1343  
Delta R.T. -0.000 min  
Lab File: BN035280.D  
Acq: 25 Nov 2024 12:04

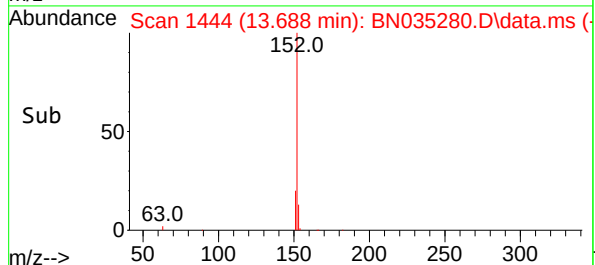
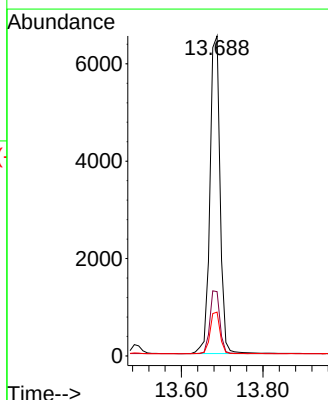
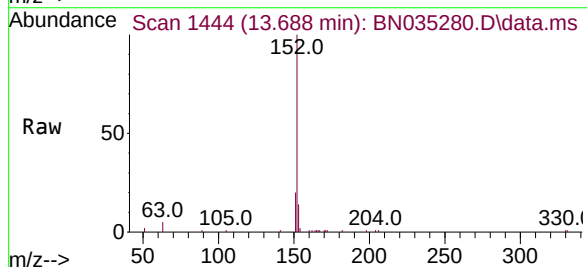
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC0.8

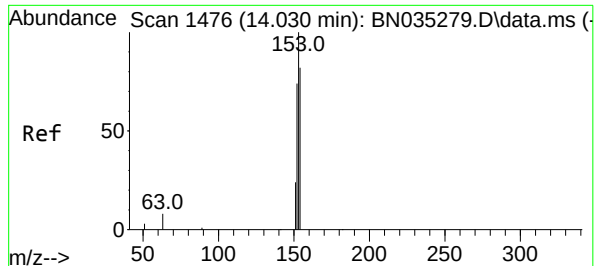
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 172     | 100   |       |       |
| 171     | 45.7  | 36.6  | 55.0  |
| 170     | 34.9  | 29.7  | 44.5  |



#16  
Acenaphthylene  
Concen: 0.898 ng  
RT: 13.688 min Scan# 1444  
Delta R.T. -0.000 min  
Lab File: BN035280.D  
Acq: 25 Nov 2024 12:04

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 151     | 19.6  | 15.9  | 23.9  |
| 153     | 13.0  | 10.2  | 15.4  |

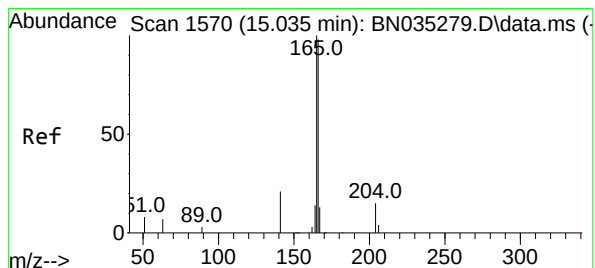
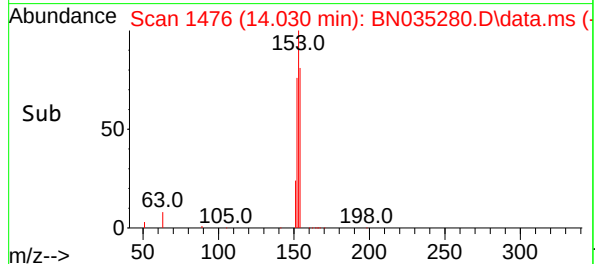
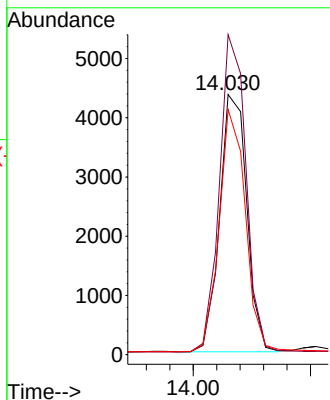
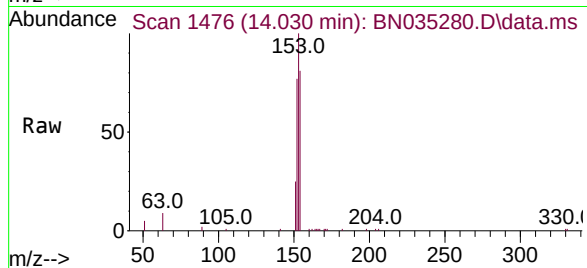




#17  
Acenaphthene  
Concen: 0.853 ng  
RT: 14.030 min Scan# 1476  
Delta R.T. -0.000 min  
Lab File: BN035280.D  
Acq: 25 Nov 2024 12:04

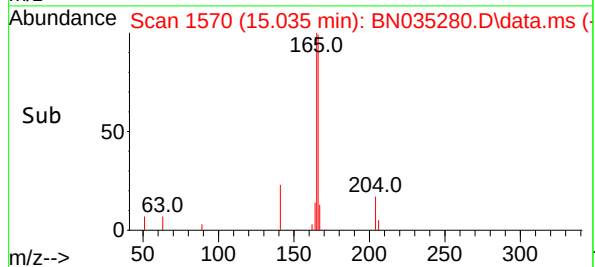
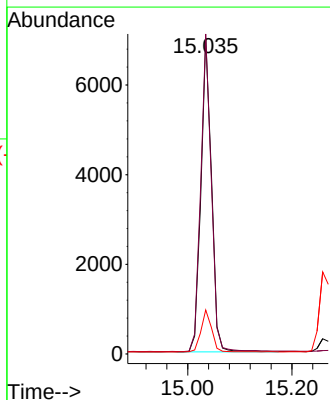
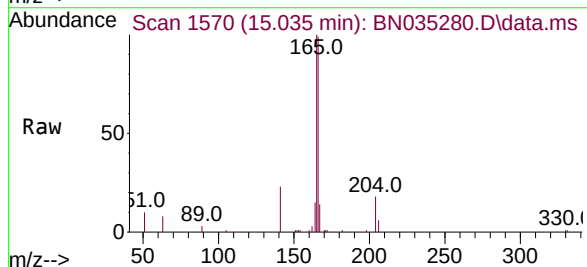
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC0.8

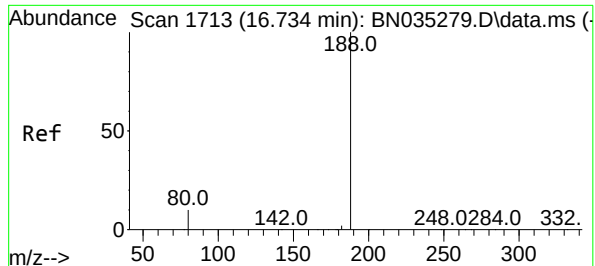
Tgt Ion:154 Resp: 6985  
Ion Ratio Lower Upper  
154 100  
153 120.3 96.1 144.1  
152 92.3 72.2 108.2



#18  
Fluorene  
Concen: 0.820 ng  
RT: 15.035 min Scan# 1570  
Delta R.T. -0.000 min  
Lab File: BN035280.D  
Acq: 25 Nov 2024 12:04

Tgt Ion:166 Resp: 9874  
Ion Ratio Lower Upper  
166 100  
165 101.4 81.2 121.8  
167 13.3 10.5 15.7





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 16.734 min Scan# 1713

Delta R.T. -0.000 min

Lab File: BN035280.D

Acq: 25 Nov 2024 12:04

Instrument :

BNA\_N

ClientSampleId :

SSTDICC0.8

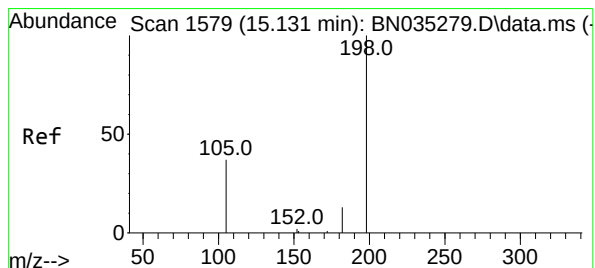
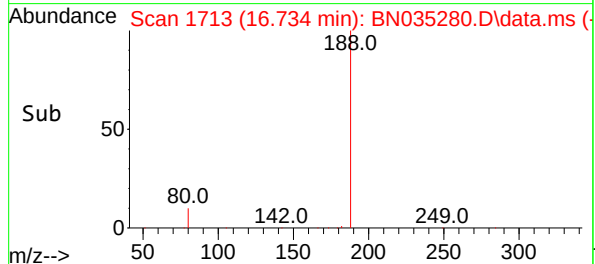
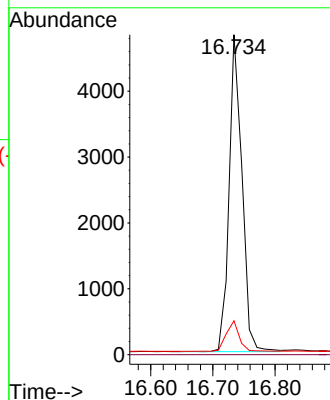
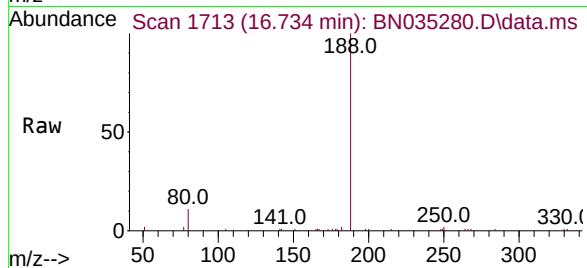
Tgt Ion:188 Resp: 6884

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 10.6 8.9 13.3



#20

4,6-Dinitro-2-methylphenol

Concen: 0.378 ng

RT: 15.131 min Scan# 1579

Delta R.T. -0.000 min

Lab File: BN035280.D

Acq: 25 Nov 2024 12:04

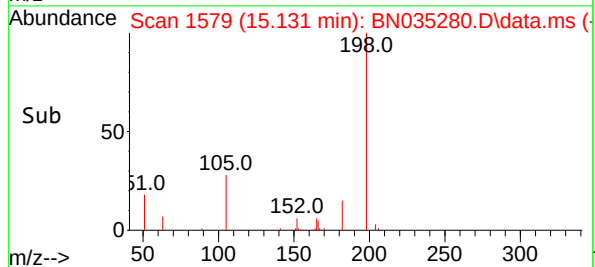
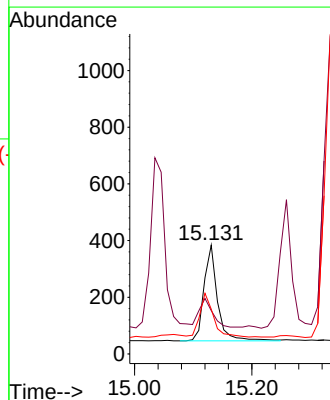
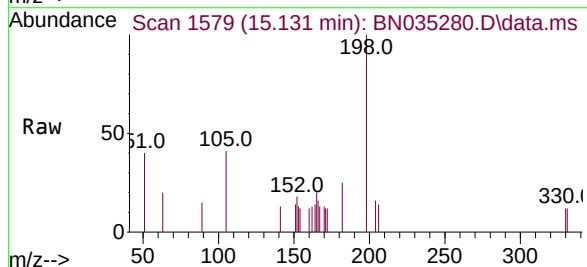
Tgt Ion:198 Resp: 542

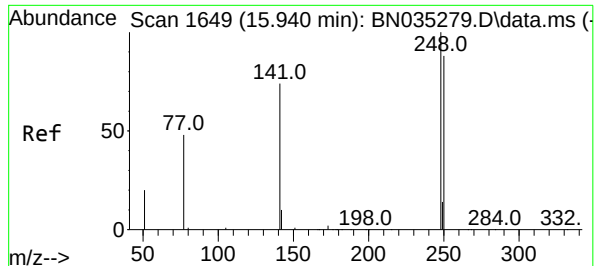
Ion Ratio Lower Upper

198 100

51 39.8 53.6 80.4#

105 41.1 47.4 71.2#

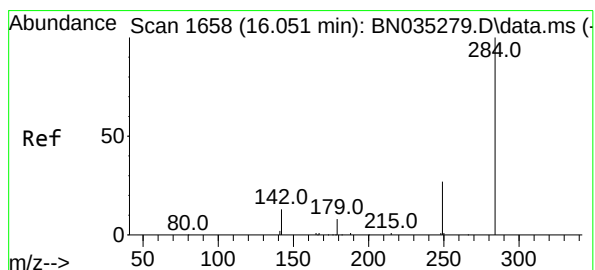
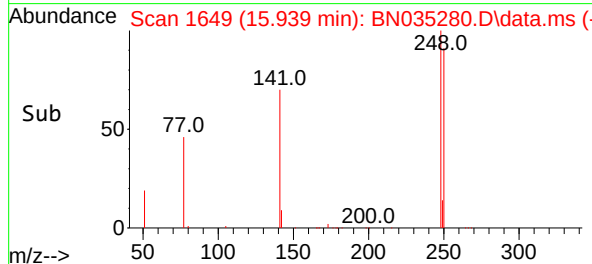
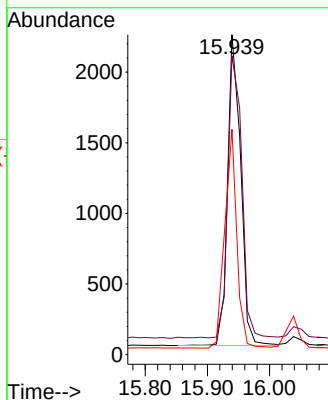
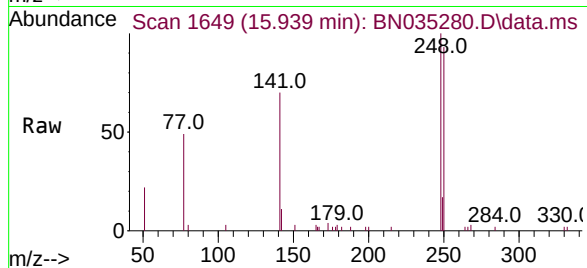




#21  
4-Bromophenyl-phenylether  
Concen: 0.730 ng  
RT: 15.939 min Scan# 1649  
Delta R.T. -0.000 min  
Lab File: BN035280.D  
Acq: 25 Nov 2024 12:04

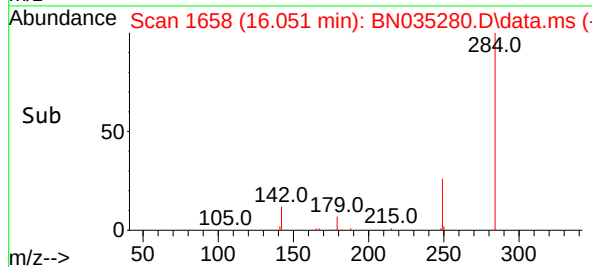
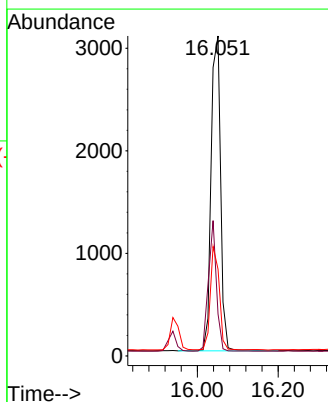
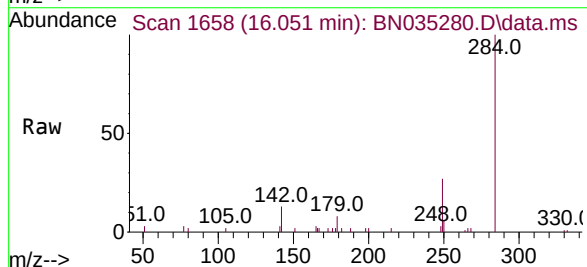
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC0.8

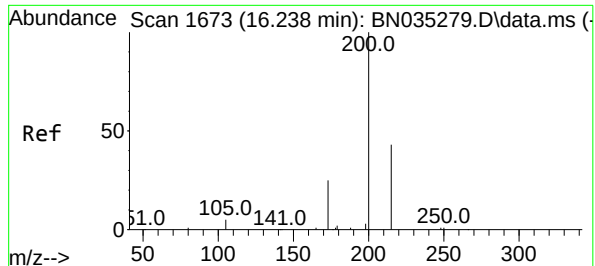
Tgt Ion:248 Resp: 3203  
Ion Ratio Lower Upper  
248 100  
250 93.5 74.8 112.2  
141 70.5 59.0 88.4



#22  
Hexachlorobenzene  
Concen: 1.099 ng  
RT: 16.051 min Scan# 1658  
Delta R.T. -0.000 min  
Lab File: BN035280.D  
Acq: 25 Nov 2024 12:04

Tgt Ion:284 Resp: 5001  
Ion Ratio Lower Upper  
284 100  
142 35.2 28.7 43.1  
249 30.8 25.4 38.0

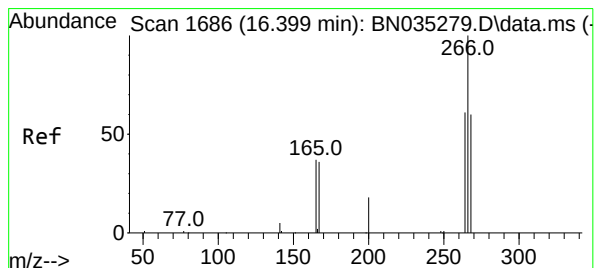
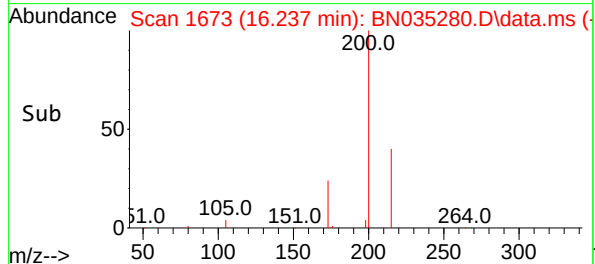
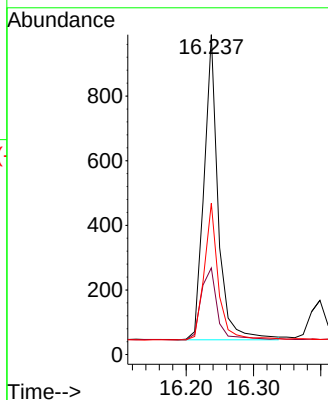
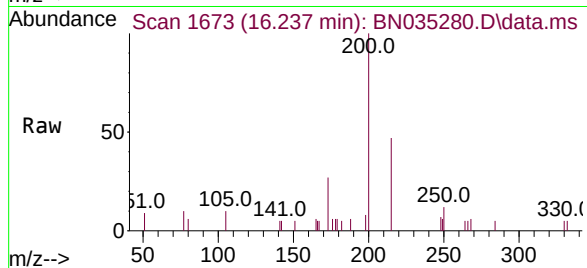




#23  
Atrazine  
Concen: 0.350 ng  
RT: 16.237 min Scan# 1673  
Delta R.T. -0.000 min  
Lab File: BN035280.D  
Acq: 25 Nov 2024 12:04

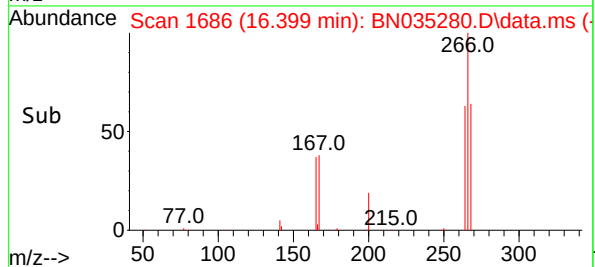
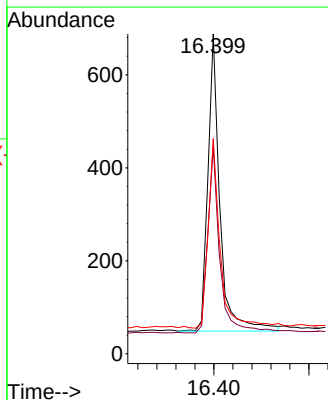
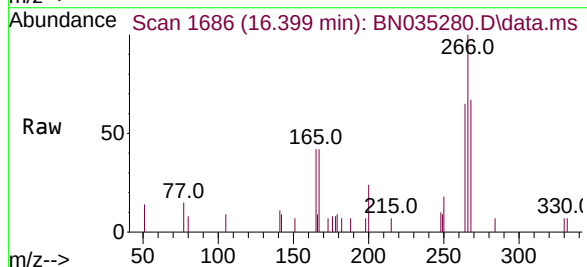
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC0.8

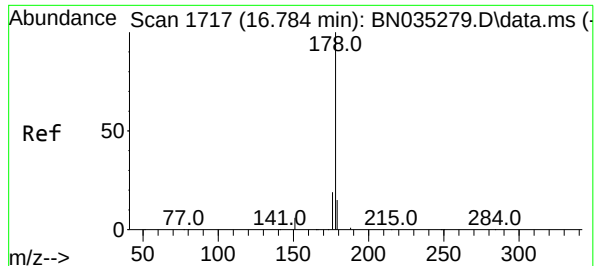
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 200     | 100   |       |       |
| 173     | 27.1  | 25.8  | 38.8  |
| 215     | 47.3  | 38.6  | 58.0  |



#24  
Pentachlorophenol  
Concen: 0.529 ng  
RT: 16.399 min Scan# 1686  
Delta R.T. -0.000 min  
Lab File: BN035280.D  
Acq: 25 Nov 2024 12:04

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 266     | 100   |       |       |
| 264     | 62.7  | 49.3  | 73.9  |
| 268     | 65.5  | 48.6  | 73.0  |

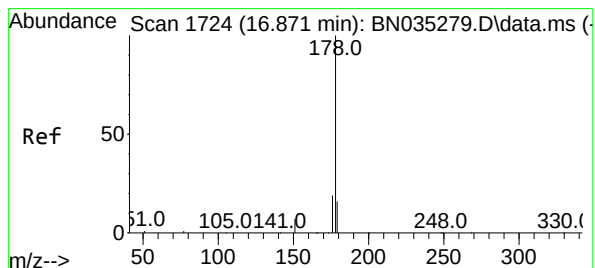
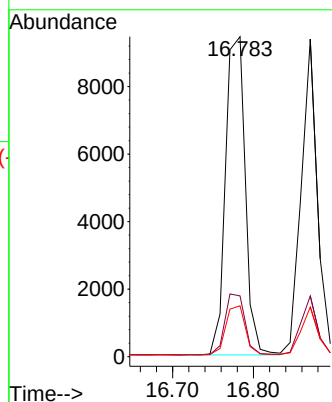
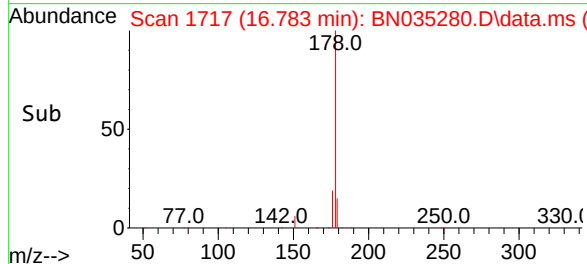
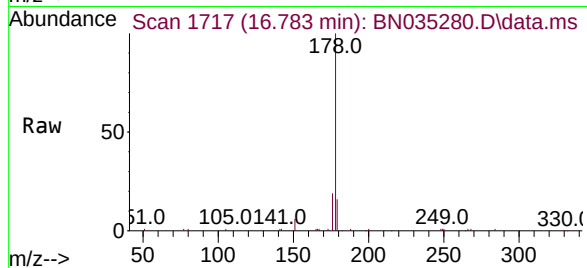




#25  
Phenanthrene  
Concen: 0.883 ng  
RT: 16.783 min Scan# 1717  
Delta R.T. -0.000 min  
Lab File: BN035280.D  
Acq: 25 Nov 2024 12:04

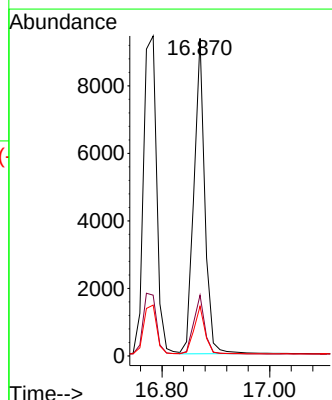
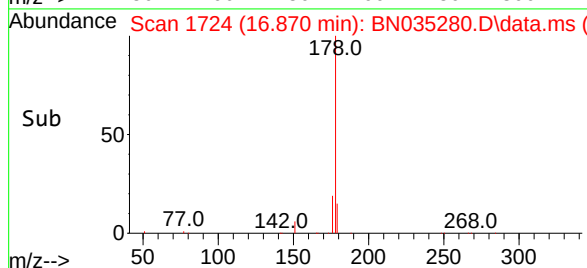
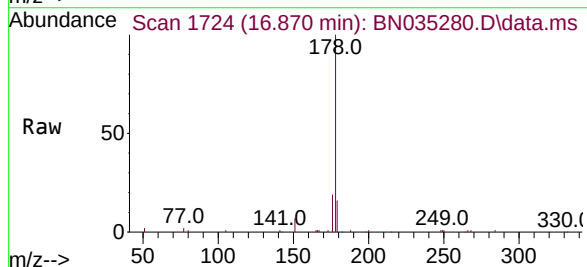
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC0.8

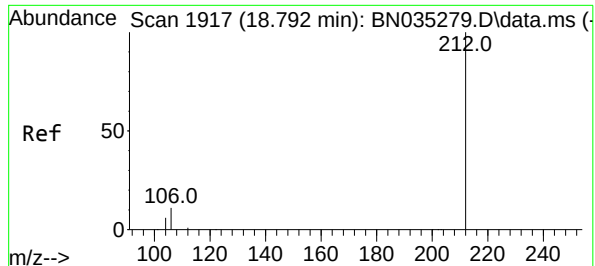
Tgt Ion:178 Resp: 16001  
Ion Ratio Lower Upper  
178 100  
176 19.4 15.4 23.0  
179 15.3 12.6 18.8



#26  
Anthracene  
Concen: 0.789 ng  
RT: 16.870 min Scan# 1724  
Delta R.T. -0.000 min  
Lab File: BN035280.D  
Acq: 25 Nov 2024 12:04

Tgt Ion:178 Resp: 13123  
Ion Ratio Lower Upper  
178 100  
176 19.1 15.0 22.4  
179 15.2 12.4 18.6

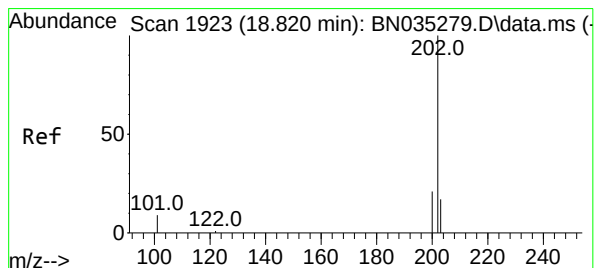
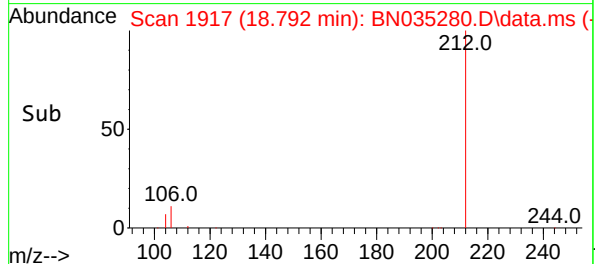
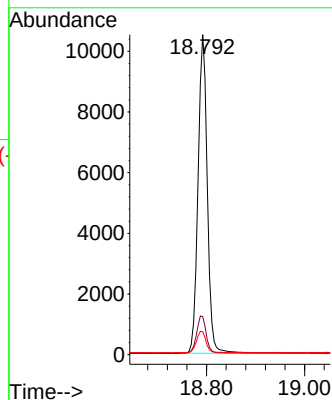
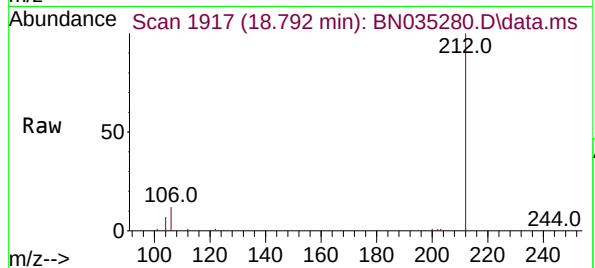




#27  
Fluoranthene-d10  
Concen: 0.651 ng  
RT: 18.792 min Scan# 1917  
Delta R.T. -0.000 min  
Lab File: BN035280.D  
Acq: 25 Nov 2024 12:04

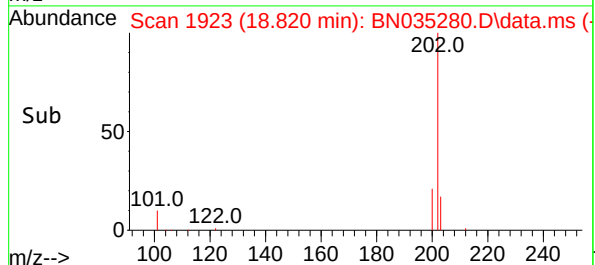
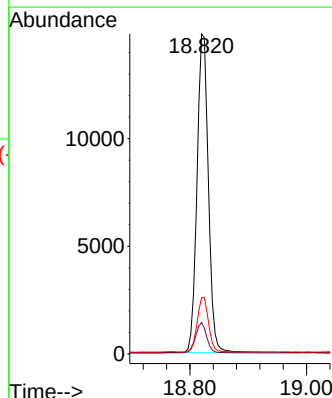
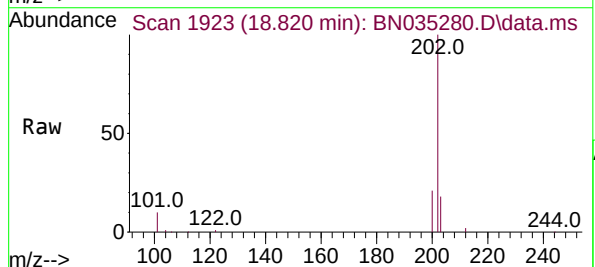
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC0.8

Tgt Ion:212 Resp: 13734  
Ion Ratio Lower Upper  
212 100  
106 12.1 9.8 14.8  
104 6.9 5.6 8.4

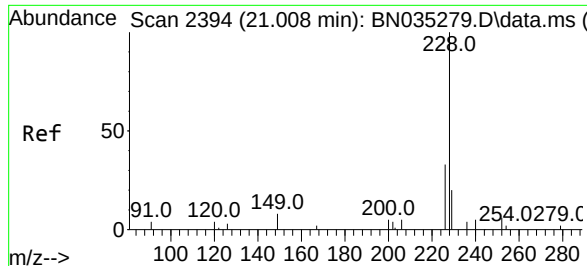


#28  
Fluoranthene  
Concen: 0.803 ng  
RT: 18.820 min Scan# 1923  
Delta R.T. -0.000 min  
Lab File: BN035280.D  
Acq: 25 Nov 2024 12:04

Tgt Ion:202 Resp: 20007  
Ion Ratio Lower Upper  
202 100  
101 9.4 7.6 11.4  
203 17.1 13.8 20.8







#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.008 min Scan# 21

Delta R.T. -0.000 min

Lab File: BN035280.D

Acq: 25 Nov 2024 12:04

Instrument :

BNA\_N

ClientSampleId :

SSTDICC0.8

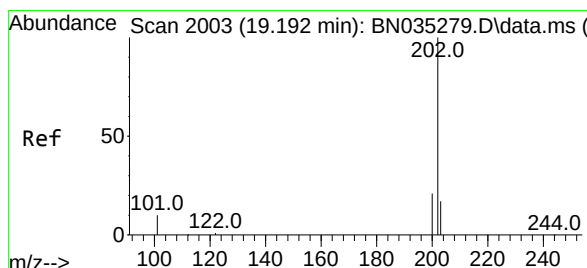
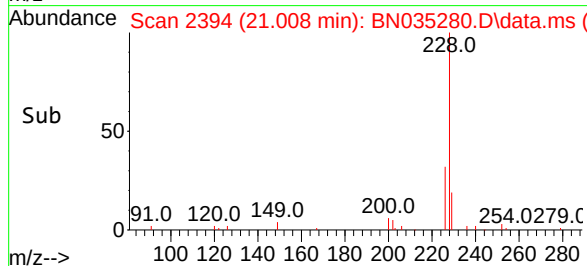
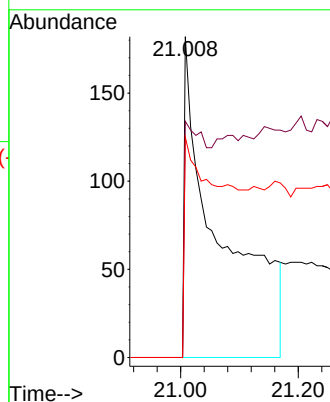
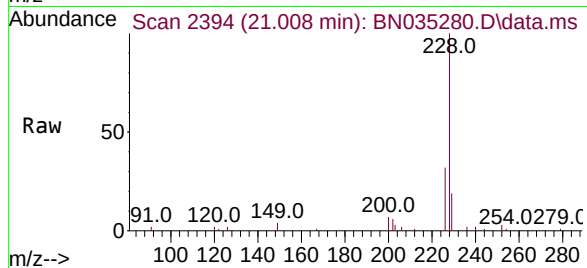
Tgt Ion:240 Resp: 725

Ion Ratio Lower Upper

240 100

120 73.6 54.9 82.3

236 68.7 54.0 81.0



#30

Pyrene

Concen: 7.635 ng

RT: 19.192 min Scan# 2003

Delta R.T. -0.000 min

Lab File: BN035280.D

Acq: 25 Nov 2024 12:04

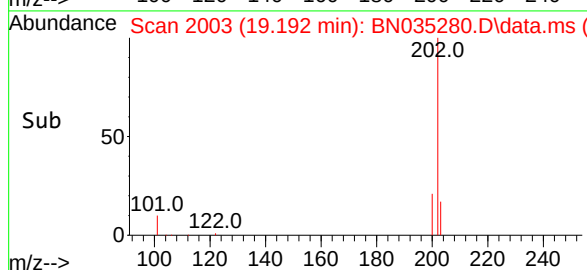
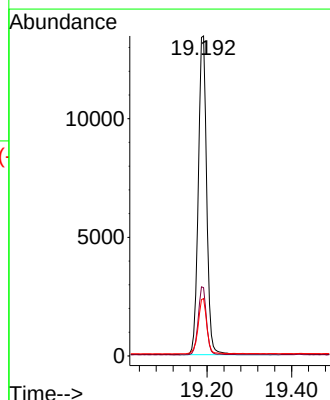
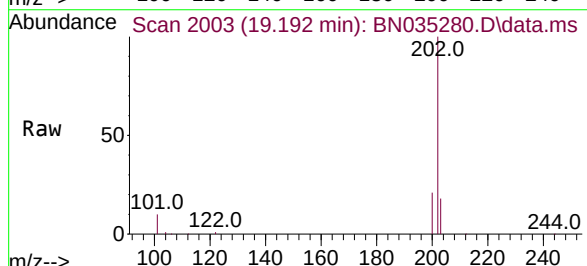
Tgt Ion:202 Resp: 18434

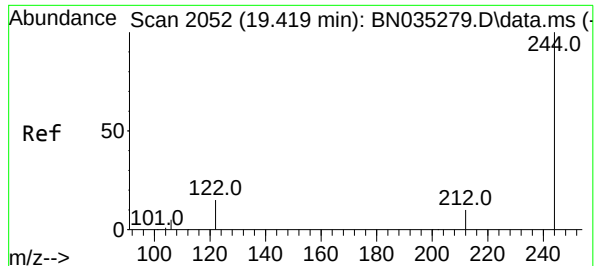
Ion Ratio Lower Upper

202 100

200 21.2 16.8 25.2

203 17.6 14.4 21.6

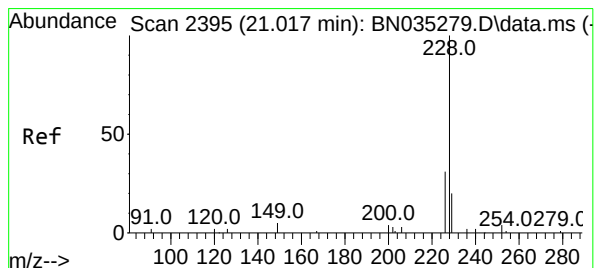
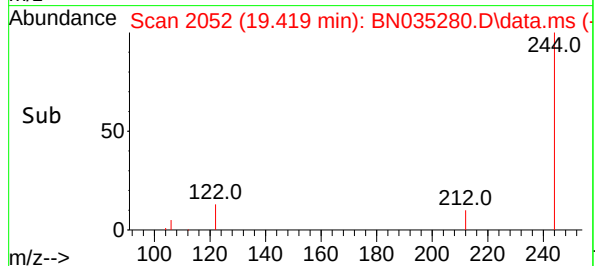
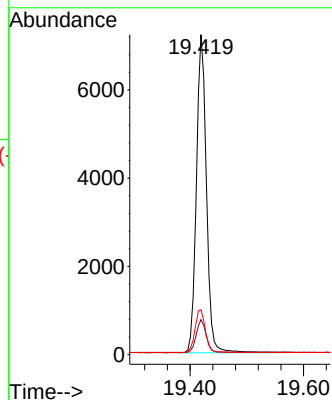
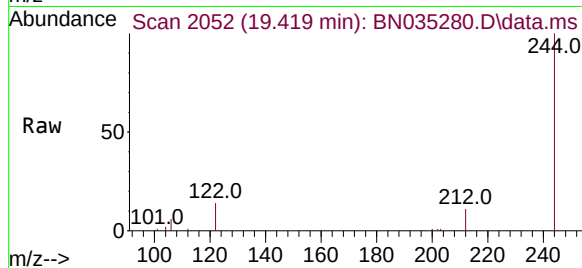




#31  
Terphenyl-d14  
Concen: 5.792 ng  
RT: 19.419 min Scan# 2052  
Delta R.T. -0.000 min  
Lab File: BN035280.D  
Acq: 25 Nov 2024 12:04

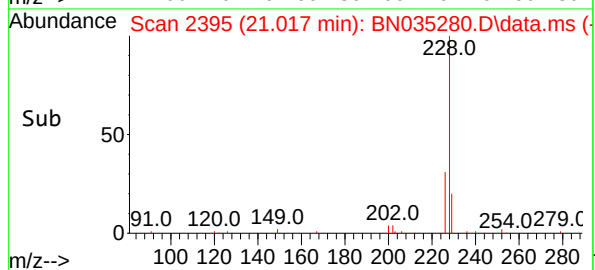
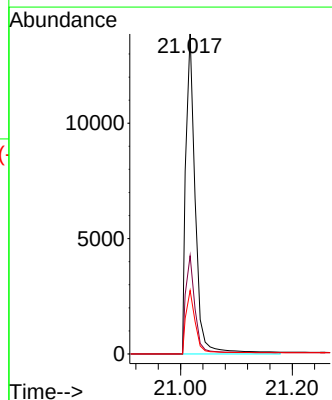
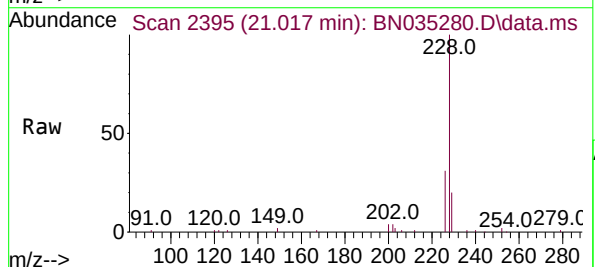
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC0.8

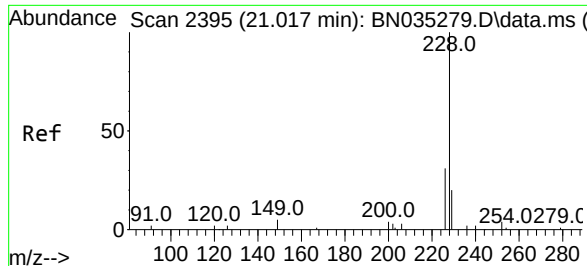
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 244     | 100   |       |       |
| 212     | 10.9  | 9.4   | 14.0  |
| 122     | 14.1  | 13.0  | 19.4  |



#32  
Benzo(a)anthracene  
Concen: 6.606 ng  
RT: 21.017 min Scan# 2395  
Delta R.T. -0.000 min  
Lab File: BN035280.D  
Acq: 25 Nov 2024 12:04

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 228     | 100   |       |       |
| 226     | 30.7  | 24.7  | 37.1  |
| 229     | 19.9  | 16.2  | 24.2  |





#33

Chrysene

Concen: 6.669 ng

RT: 21.017 min Scan# 21

Delta R.T. -0.000 min

Lab File: BN035280.D

Acq: 25 Nov 2024 12:04

Instrument :

BNA\_N

ClientSampleId :

SSTDICC0.8

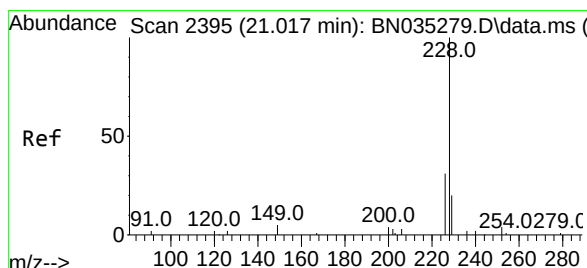
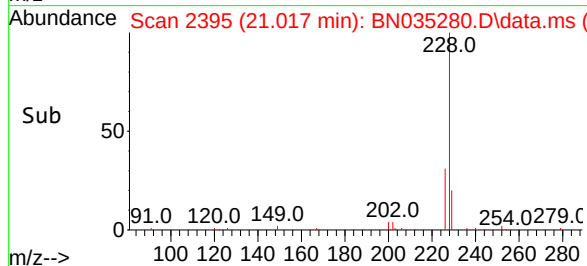
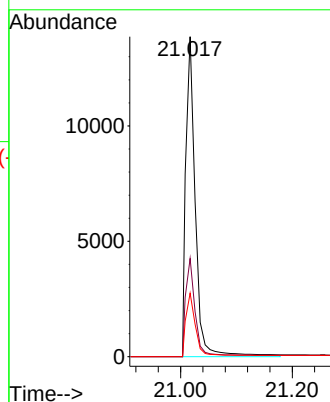
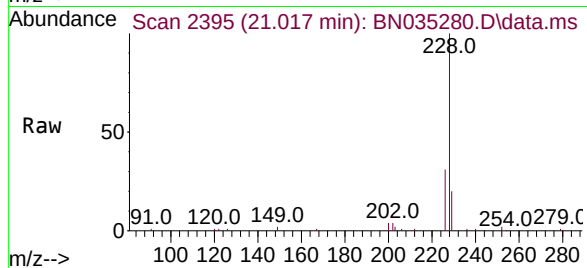
Tgt Ion:228 Resp: 16677

Ion Ratio Lower Upper

228 100

226 30.7 24.7 37.1

229 19.9 16.2 24.2



#34

Bis(2-ethylhexyl)phthalate

Concen: 0.553 ng

RT: 21.008 min Scan# 2394

Delta R.T. -0.009 min

Lab File: BN035280.D

Acq: 25 Nov 2024 12:04

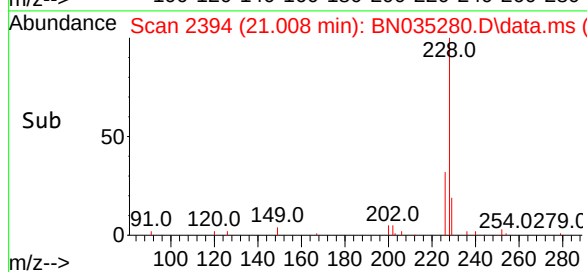
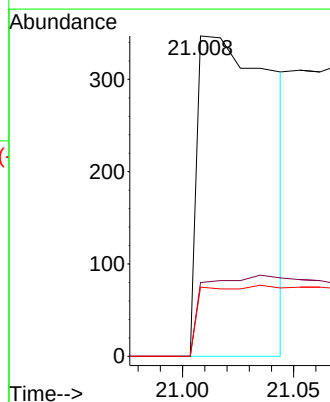
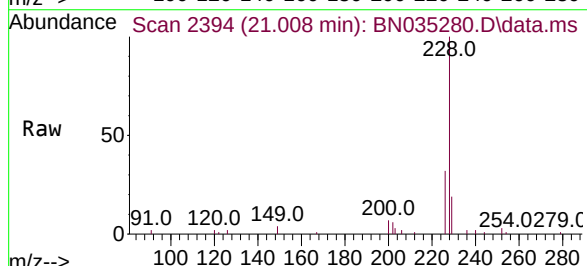
Tgt Ion:149 Resp: 733

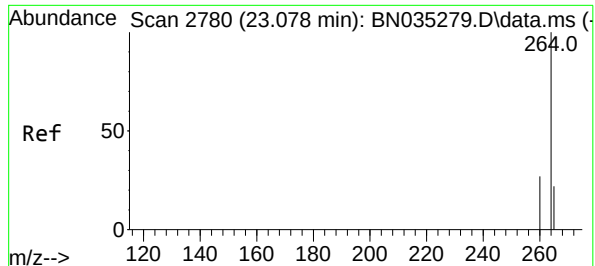
Ion Ratio Lower Upper

149 100

167 0.0 0.0 0.0

279 0.0 13.0 19.6#





#35

Perylene-d12

Concen: 0.400 ng

RT: 23.078 min Scan# 21

Delta R.T. -0.000 min

Lab File: BN035280.D

Acq: 25 Nov 2024 12:04

Instrument :

BNA\_N

ClientSampleId :

SSTDICC0.8

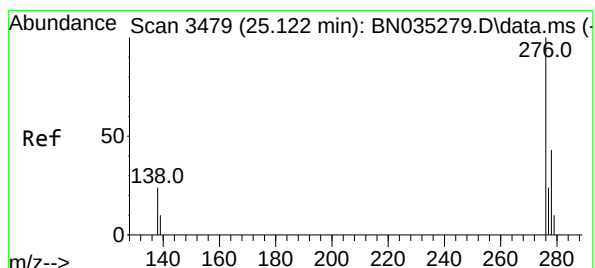
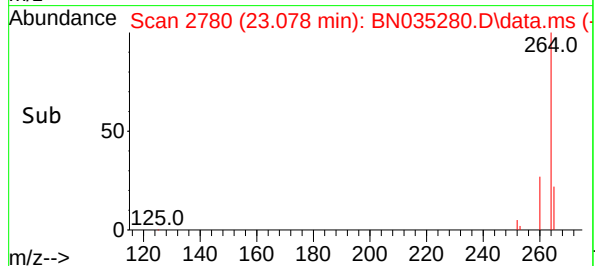
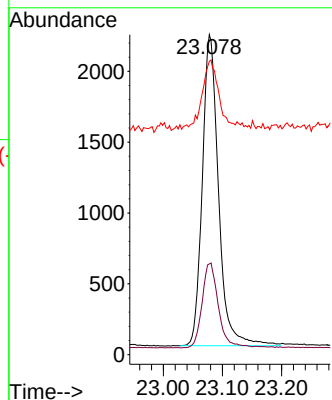
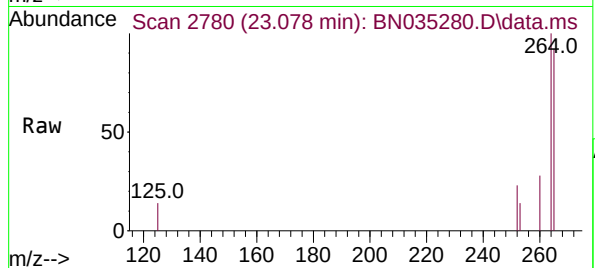
Tgt Ion:264 Resp: 4193

Ion Ratio Lower Upper

264 100

260 28.3 22.3 33.5

265 91.6 68.6 103.0



#36

Indeno(1,2,3-cd)pyrene

Concen: 0.789 ng

RT: 25.124 min Scan# 3480

Delta R.T. 0.003 min

Lab File: BN035280.D

Acq: 25 Nov 2024 12:04

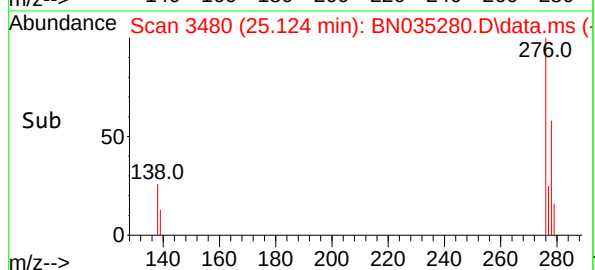
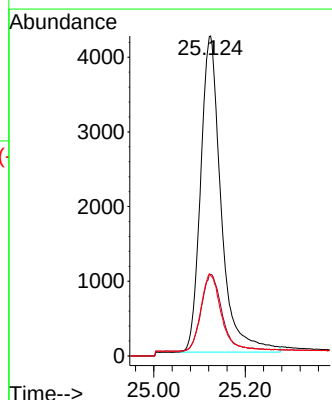
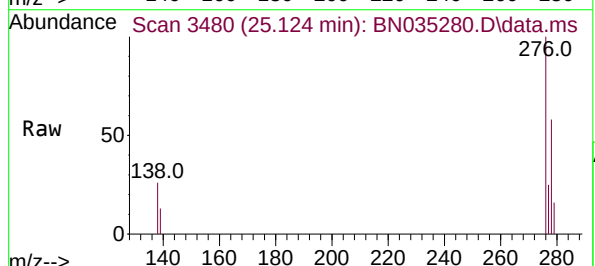
Tgt Ion:276 Resp: 13203

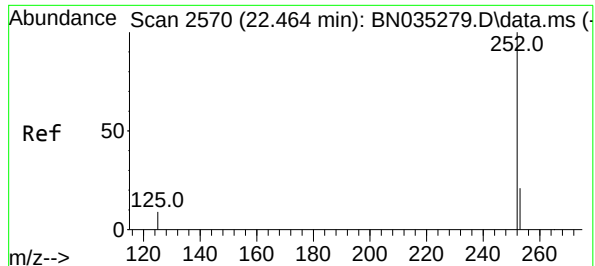
Ion Ratio Lower Upper

276 100

138 23.8 18.8 28.2

277 23.7 18.2 27.4





#37

Benzo(b)fluoranthene

Concen: 1.019 ng

RT: 22.464 min Scan# 2570

Delta R.T. -0.000 min

Lab File: BN035280.D

Acq: 25 Nov 2024 12:04

Instrument :

BNA\_N

ClientSampleId :

SSTDICC0.8

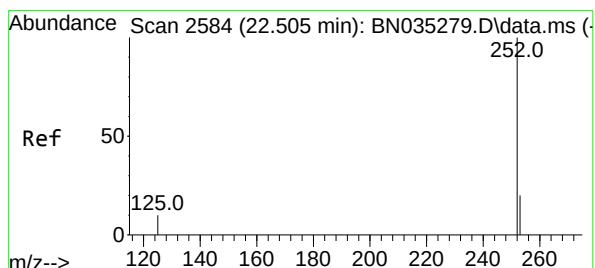
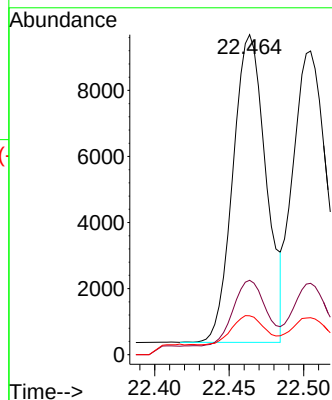
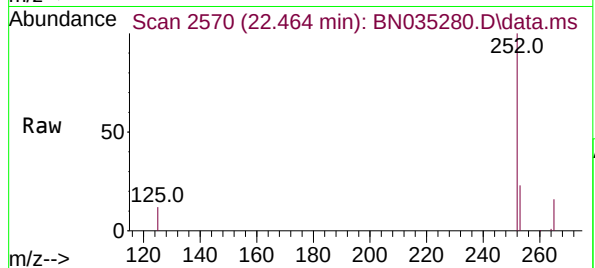
Tgt Ion:252 Resp: 14372

Ion Ratio Lower Upper

252 100

253 23.3 20.2 30.2

125 12.2 12.0 18.0



#38

Benzo(k)fluoranthene

Concen: 1.067 ng

RT: 22.505 min Scan# 2584

Delta R.T. -0.000 min

Lab File: BN035280.D

Acq: 25 Nov 2024 12:04

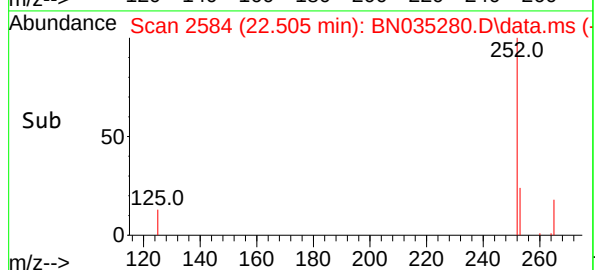
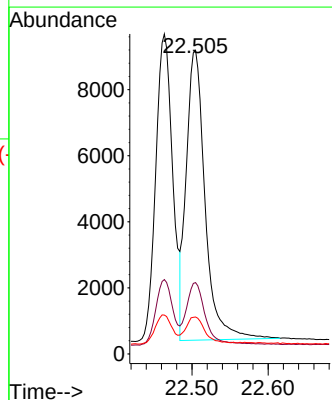
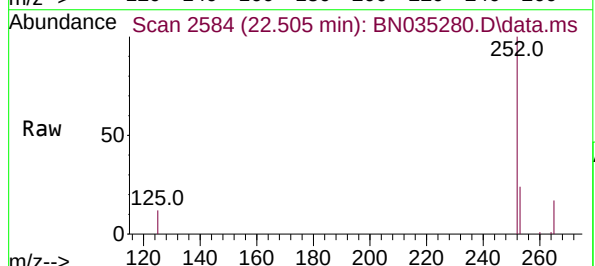
Tgt Ion:252 Resp: 15061

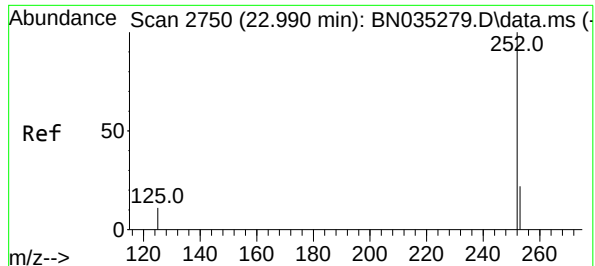
Ion Ratio Lower Upper

252 100

253 23.5 20.1 30.1

125 12.2 12.7 19.1#





#39

Benzo(a)pyrene

Concen: 0.876 ng

RT: 22.987 min Scan# 21

Delta R.T. -0.003 min

Lab File: BN035280.D

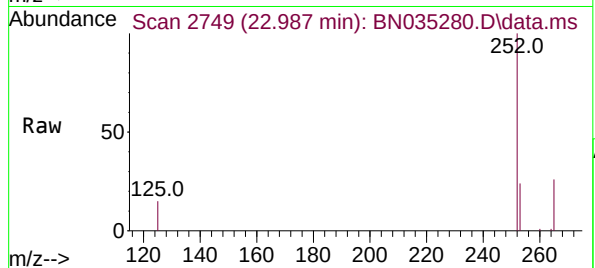
Acq: 25 Nov 2024 12:04

Instrument :

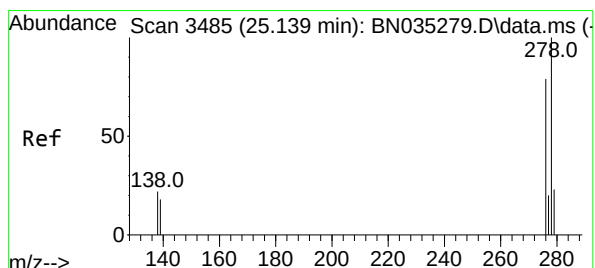
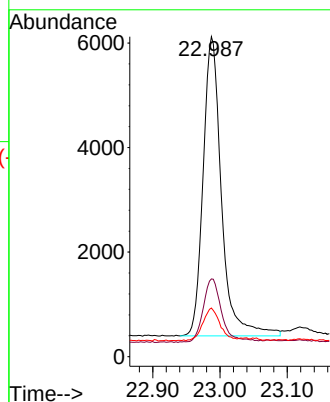
BNA\_N

ClientSampleId :

SSTDICC0.8



|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 252   | Resp: | 10876 |
| Ion Ratio | Lower | Upper |       |
| 252       | 100   |       |       |
| 253       | 24.3  | 22.3  | 33.5  |
| 125       | 15.2  | 15.3  | 22.9# |



#40

Dibenzo(a,h)anthracene

Concen: 0.760 ng

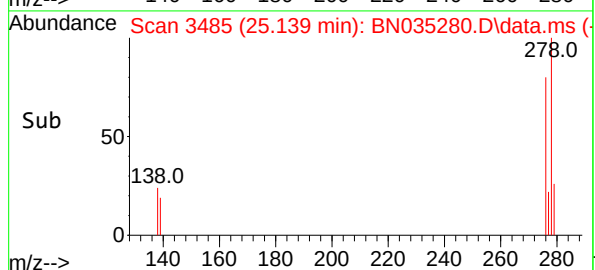
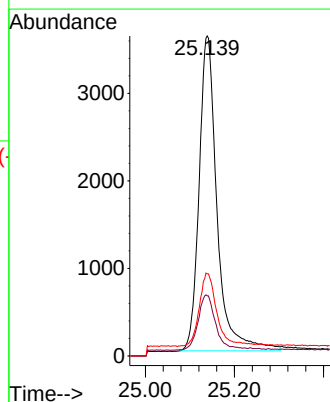
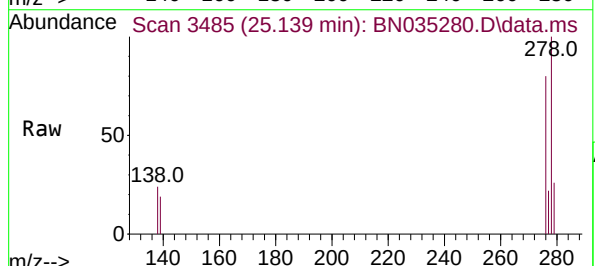
RT: 25.139 min Scan# 3485

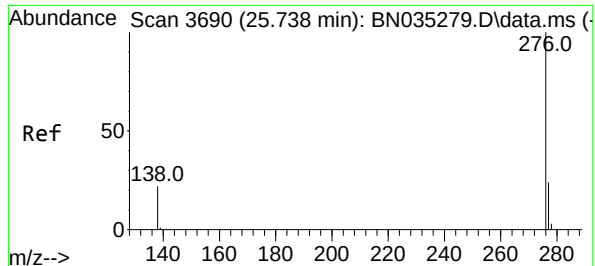
Delta R.T. -0.000 min

Lab File: BN035280.D

Acq: 25 Nov 2024 12:04

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 278   | Resp: | 10078 |
| Ion Ratio | Lower | Upper |       |
| 278       | 100   |       |       |
| 139       | 18.8  | 17.0  | 25.6  |
| 279       | 25.6  | 23.0  | 34.4  |





#41

Benzo(g,h,i)perylene

Concen: 0.840 ng

RT: 25.738 min Scan# 30

Delta R.T. -0.000 min

Lab File: BN035280.D

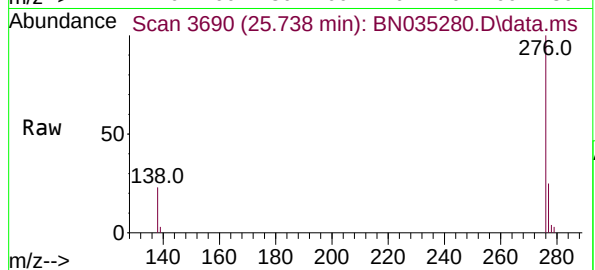
Acq: 25 Nov 2024 12:04

Instrument :

BNA\_N

ClientSampleId :

SSTDICC0.8



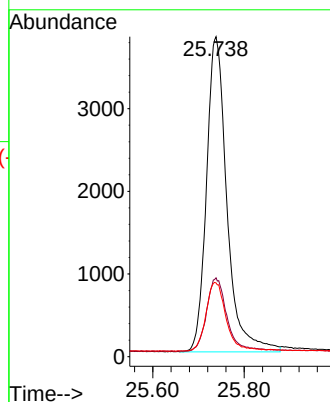
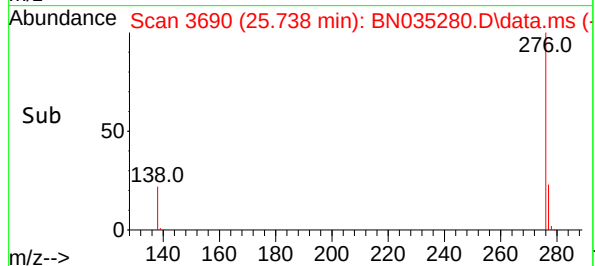
Tgt Ion:276 Resp: 11838

Ion Ratio Lower Upper

276 100

277 24.7 21.1 31.7

138 23.0 19.8 29.8



Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN112524\  
 Data File : BN035281.D  
 Acq On : 25 Nov 2024 12:40  
 Operator : RC/JU  
 Sample : SSTDICC1.6  
 Misc :  
 ALS Vial : 56 Sample Multiplier: 1

Instrument :  
 BNA\_N  
 ClientSampleId :  
 SSTDICC1.6

Quant Time: Nov 25 14:20:11 2024  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\8270-SIM-BN112524.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Mon Nov 25 14:16:35 2024  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc   | Units | Dev(Min) |
|-------------------------------|--------|------|----------|--------|-------|----------|
| -----                         |        |      |          |        |       |          |
| Internal Standards            |        |      |          |        |       |          |
| 1) 1,4-Dichlorobenzene-d4     | 7.315  | 152  | 2108     | 0.400  | ng    | 0.00     |
| 7) Naphthalene-d8             | 10.063 | 136  | 4875     | 0.400  | ng    | 0.00     |
| 13) Acenaphthene-d10          | 13.976 | 164  | 2647     | 0.400  | ng    | 0.00     |
| 19) Phenanthrene-d10          | 16.734 | 188  | 6226     | 0.400  | ng    | 0.00     |
| 29) Chrysene-d12              | 21.008 | 240  | 542      | 0.400  | ng    | 0.00     |
| 35) Perylene-d12              | 23.081 | 264  | 3989     | 0.400  | ng    | 0.00     |
|                               |        |      |          |        |       |          |
| System Monitoring Compounds   |        |      |          |        |       |          |
| 4) 2-Fluorophenol             | 4.968  | 112  | 6152     | 1.150  | ng    | 0.00     |
| 5) Phenol-d6                  | 6.520  | 99   | 8647     | 1.289  | ng    | 0.00     |
| 8) Nitrobenzene-d5            | 8.450  | 82   | 6940     | 1.635  | ng    | 0.00     |
| 11) 2-Methylnaphthalene-d10   | 11.666 | 152  | 11029    | 1.270  | ng    | 0.00     |
| 14) 2,4,6-Tribromophenol      | 15.484 | 330  | 2250     | 1.178  | ng    | 0.00     |
| 15) 2-Fluorobiphenyl          | 12.608 | 172  | 871      | 0.081  | ng    | 0.00     |
| 27) Fluoranthene-d10          | 18.792 | 212  | 27881    | 1.462  | ng    | 0.00     |
| 31) Terphenyl-d14             | 19.419 | 244  | 18679    | 16.424 | ng    | 0.00     |
|                               |        |      |          |        |       |          |
| Target Compounds              |        |      |          |        |       | Qvalue   |
| 2) 1,4-Dioxane                | 3.003  | 88   | 2397     | 1.252  | ng    | # 80     |
| 3) n-Nitrosodimethylamine     | 3.292  | 42   | 2641     | 1.480  | ng    | # 81     |
| 6) bis(2-Chloroethyl)ether    | 6.766  | 93   | 7711     | 1.531  | ng    | 99       |
| 9) Naphthalene                | 10.116 | 128  | 22419    | 1.761  | ng    | 98       |
| 10) Hexachlorobutadiene       | 10.415 | 225  | 6605     | 1.770  | ng    | # 99     |
| 12) 2-Methylnaphthalene       | 11.742 | 142  | 14579    | 1.553  | ng    | 98       |
| 16) Acenaphthylene            | 13.688 | 152  | 22416    | 1.982  | ng    | 99       |
| 17) Acenaphthene              | 14.040 | 154  | 14198    | 1.915  | ng    | 100      |
| 18) Fluorene                  | 15.035 | 166  | 20193    | 1.852  | ng    | 99       |
| 20) 4,6-Dinitro-2-methylph... | 15.131 | 198  | 1188     | 0.917  | ng    | # 56     |
| 21) 4-Bromophenyl-phenylether | 15.939 | 248  | 6288     | 1.585  | ng    | 98       |
| 22) Hexachlorobenzene         | 16.051 | 284  | 9730     | 2.364  | ng    | 99       |
| 23) Atrazine                  | 16.237 | 200  | 2833     | 0.796  | ng    | # 93     |
| 24) Pentachlorophenol         | 16.399 | 266  | 2413     | 1.255  | ng    | 97       |
| 25) Phenanthrene              | 16.783 | 178  | 31649    | 1.932  | ng    | 99       |
| 26) Anthracene                | 16.870 | 178  | 27397    | 1.820  | ng    | 99       |
| 28) Fluoranthene              | 18.825 | 202  | 43133    | 1.914  | ng    | 99       |
| 30) Pyrene                    | 19.192 | 202  | 38572    | 21.370 | ng    | 99       |
| 32) Benzo(a)anthracene        | 21.017 | 228  | 35573    | 18.849 | ng    | 99       |
| 33) Chrysene                  | 21.017 | 228  | 35573    | 19.028 | ng    | 99       |
| 34) Bis(2-ethylhexyl)phtha... | 21.017 | 149  | 946      | 0.955  | ng    | # 62     |
| 36) Indeno(1,2,3-cd)pyrene    | 25.124 | 276  | 27825    | 1.749  | ng    | 97       |
| 37) Benzo(b)fluoranthene      | 22.467 | 252  | 29950    | 2.232  | ng    | # 93     |
| 38) Benzo(k)fluoranthene      | 22.505 | 252  | 32689    | 2.434  | ng    | # 92     |
| 39) Benzo(a)pyrene            | 22.990 | 252  | 22785    | 1.929  | ng    | # 88     |
| 40) Dibenzo(a,h)anthracene    | 25.142 | 278  | 21588    | 1.712  | ng    | 92       |
| 41) Benzo(g,h,i)perylene      | 25.738 | 276  | 24058    | 1.794  | ng    | 95       |
| -----                         |        |      |          |        |       |          |

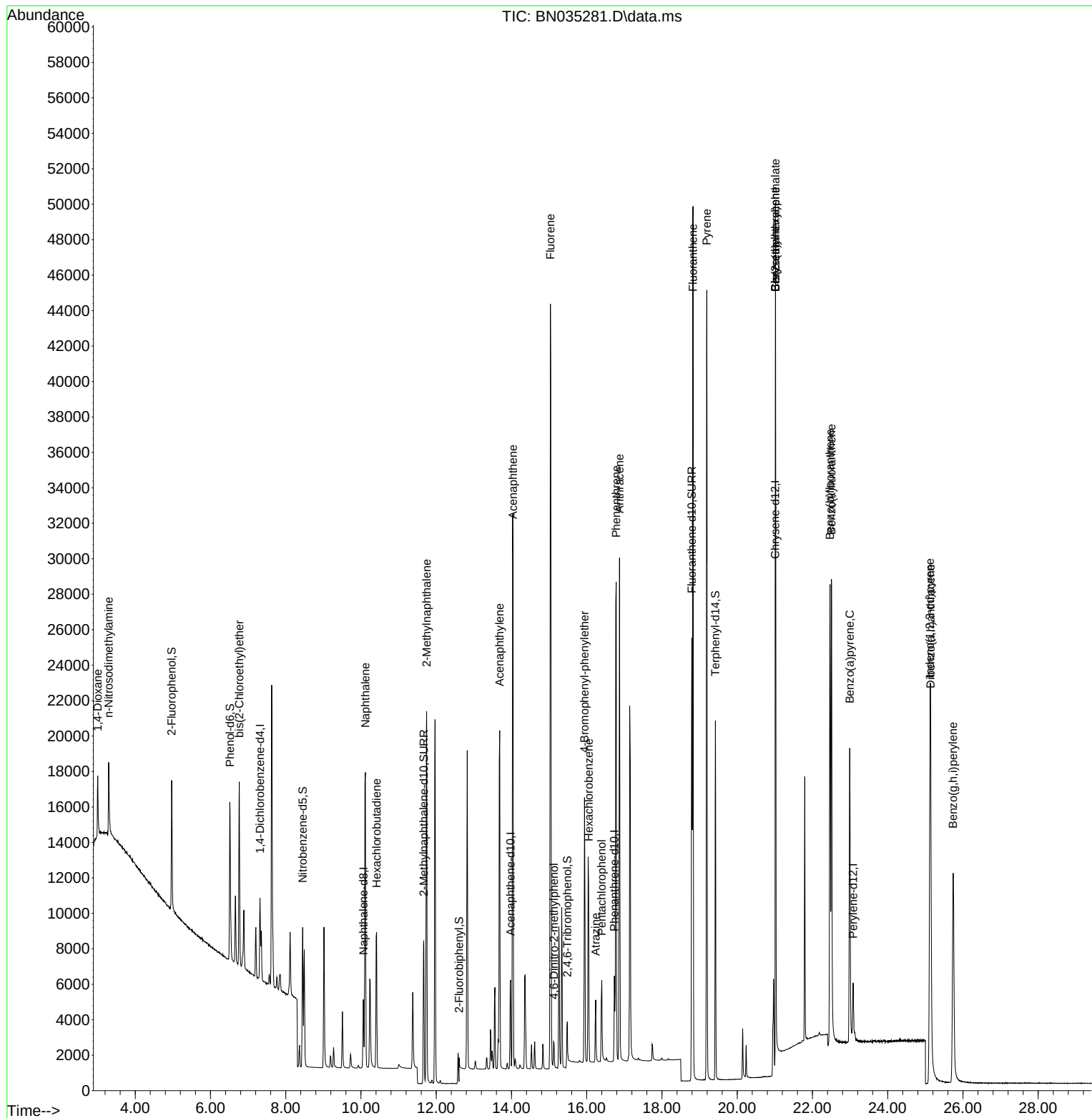
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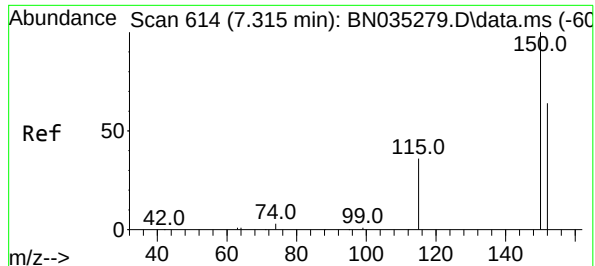


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Acq On : 25 Nov 2024 12:40  
Operator : RC/JU  
Sample : SSTDICC1.6  
Misc :  
ALS Vial : 56 Sample Multiplier: 1

Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC1.6

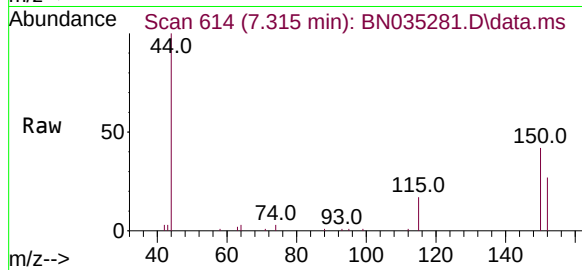
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QLast Update : Mon Nov 25 14:16:35 2024  
Response via : Initial Calibration



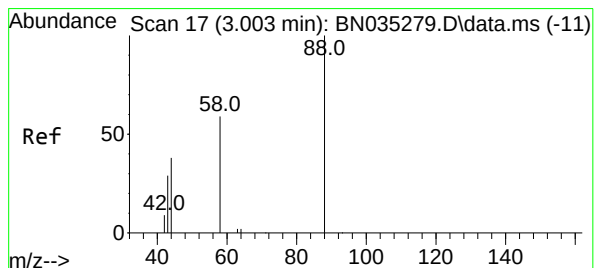
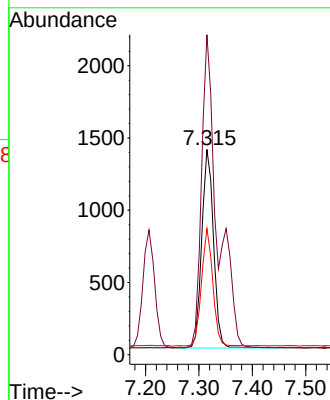
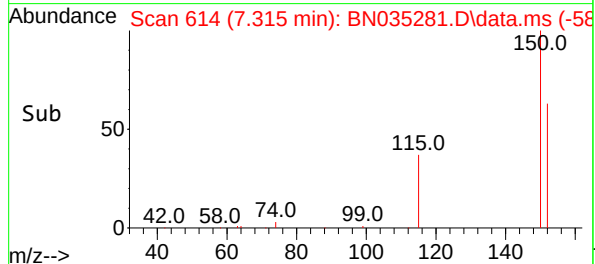


#1  
1,4-Dichlorobenzene-d4  
Concen: 0.400 ng  
RT: 7.315 min Scan# 61  
Delta R.T. -0.000 min  
Lab File: BN035281.D  
Acq: 25 Nov 2024 12:40

Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC1.6

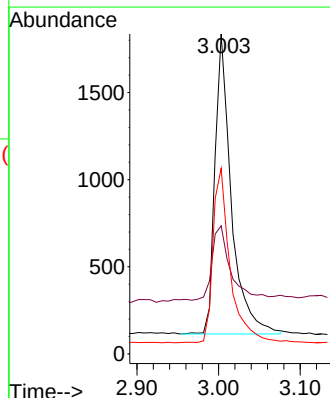
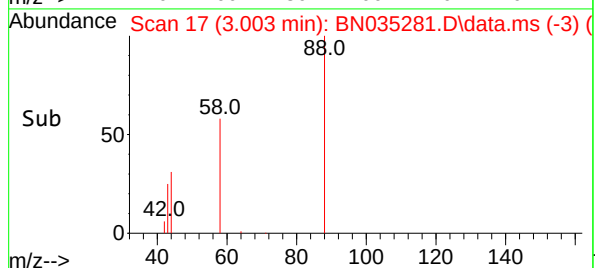
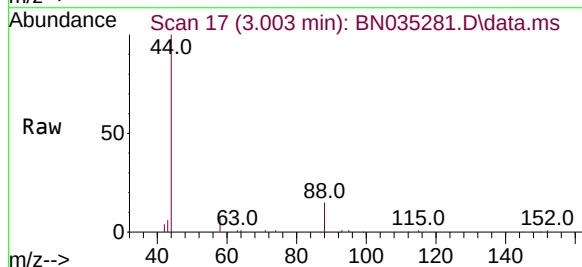


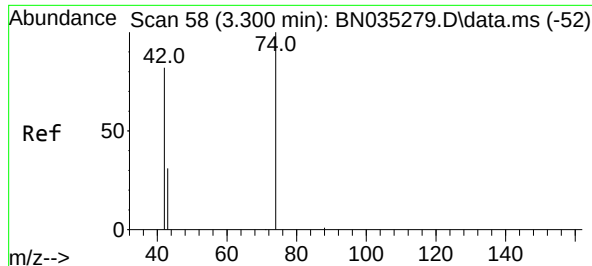
Tgt Ion:152 Resp: 2108  
Ion Ratio Lower Upper  
152 100  
150 155.9 124.5 186.7  
115 61.4 47.8 71.8



#2  
1,4-Dioxane  
Concen: 1.252 ng  
RT: 3.003 min Scan# 17  
Delta R.T. -0.000 min  
Lab File: BN035281.D  
Acq: 25 Nov 2024 12:40

Tgt Ion: 88 Resp: 2397  
Ion Ratio Lower Upper  
88 100  
43 32.7 48.1 72.1#  
58 61.1 46.9 70.3

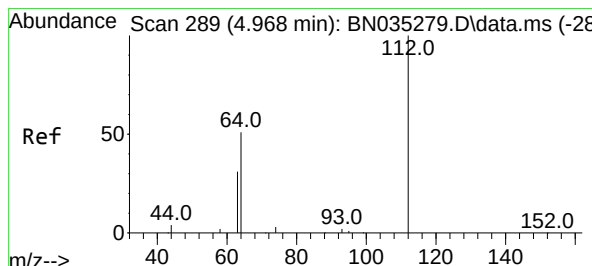
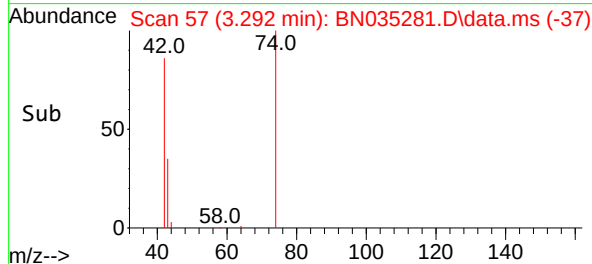
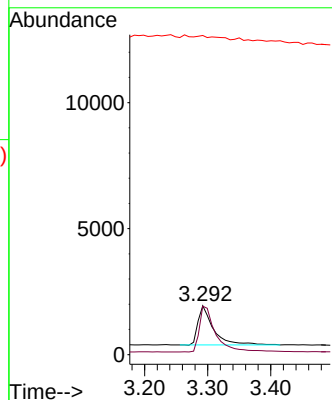
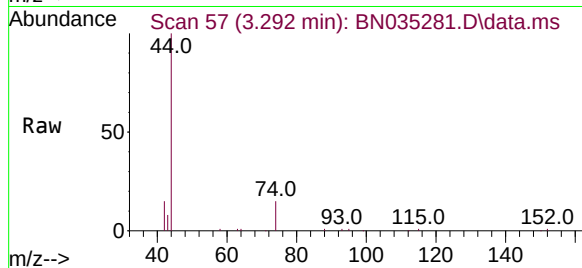




#3  
n-Nitrosodimethylamine  
Concen: 1.480 ng  
RT: 3.292 min Scan# 51  
Delta R.T. -0.007 min  
Lab File: BN035281.D  
Acq: 25 Nov 2024 12:40

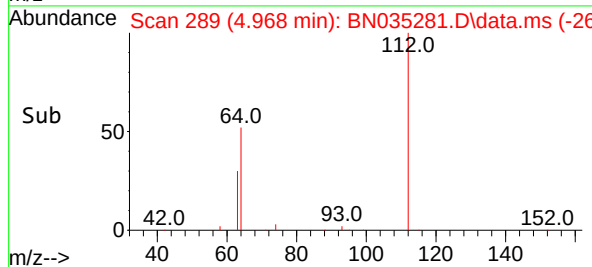
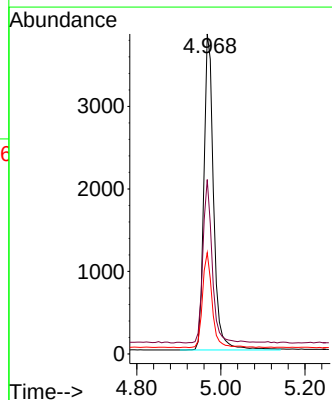
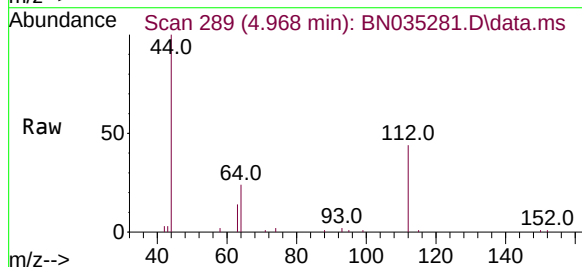
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BNA\_N  
ClientSampleId :  
SSTDICC1.6

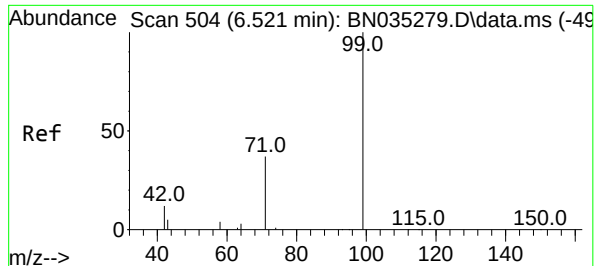
Tgt Ion: 42 Resp: 2641  
Ion Ratio Lower Upper  
42 100  
74 124.1 102.7 154.1  
44 0.0 34.1 51.1#



#4  
2-Fluorophenol  
Concen: 1.150 ng  
RT: 4.968 min Scan# 289  
Delta R.T. -0.000 min  
Lab File: BN035281.D  
Acq: 25 Nov 2024 12:40

Tgt Ion: 112 Resp: 6152  
Ion Ratio Lower Upper  
112 100  
64 49.1 40.4 60.6  
63 29.1 23.8 35.8

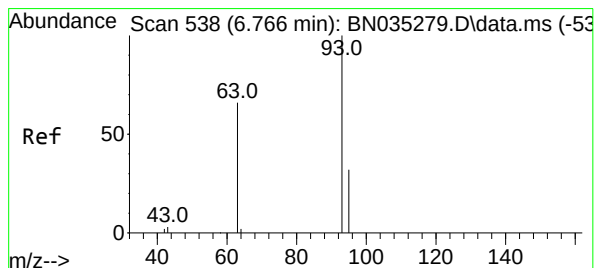
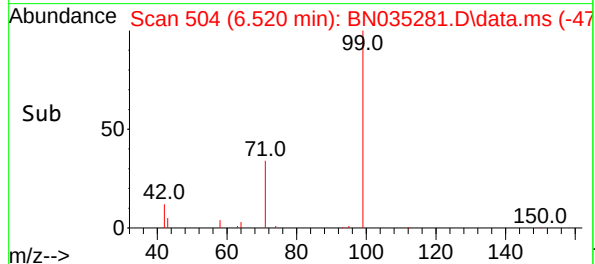
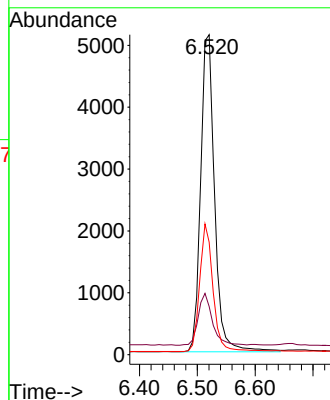
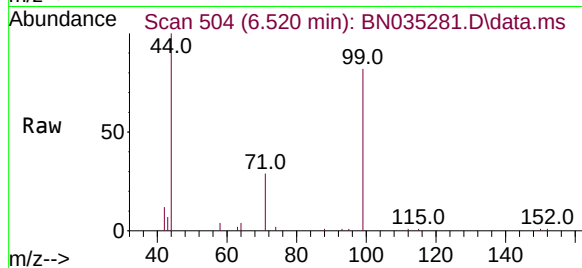




#5  
Phenol-d6  
Concen: 1.289 ng  
RT: 6.520 min Scan# 504  
Delta R.T. -0.000 min  
Lab File: BN035281.D  
Acq: 25 Nov 2024 12:40

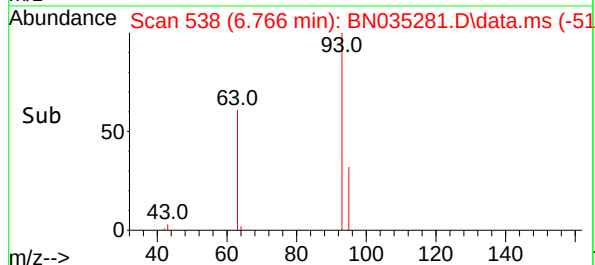
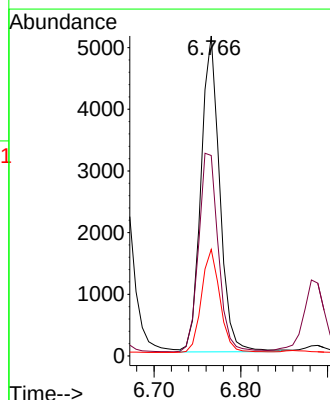
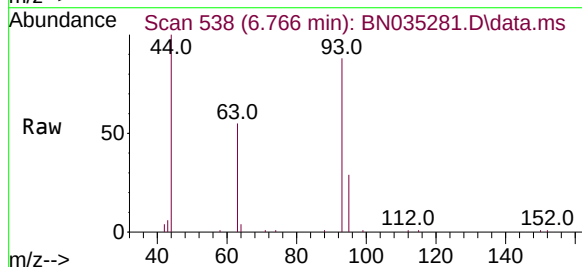
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC1.6

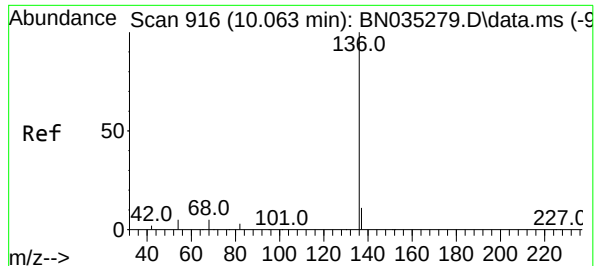
Tgt Ion: 99 Resp: 8647  
Ion Ratio Lower Upper  
99 100  
42 16.6 12.8 19.2  
71 38.4 31.4 47.2



#6  
bis(2-Chloroethyl)ether  
Concen: 1.531 ng  
RT: 6.766 min Scan# 538  
Delta R.T. -0.000 min  
Lab File: BN035281.D  
Acq: 25 Nov 2024 12:40

Tgt Ion: 93 Resp: 7711  
Ion Ratio Lower Upper  
93 100  
63 66.1 52.3 78.5  
95 32.1 25.5 38.3

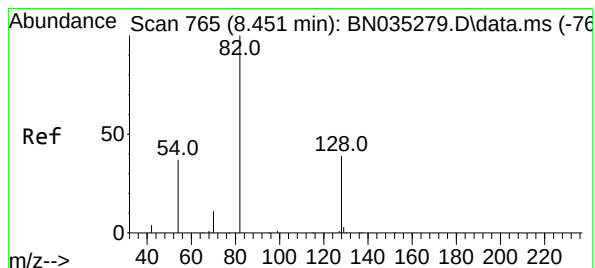
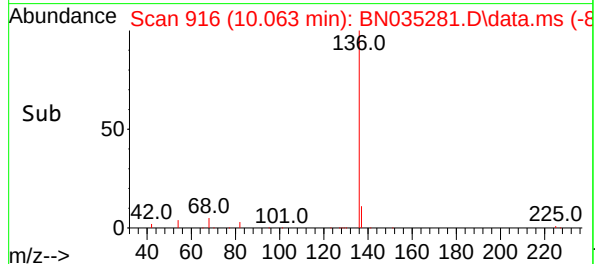
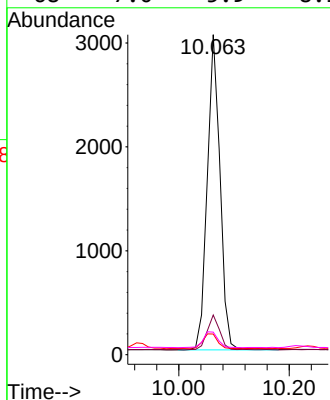
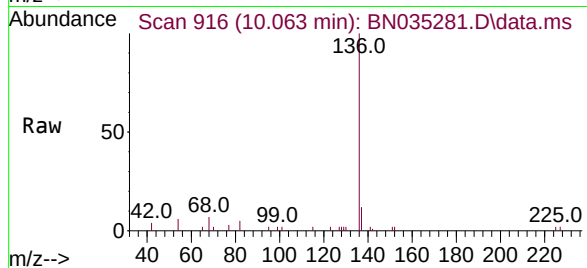




#7  
Naphthalene-d8  
Concen: 0.400 ng  
RT: 10.063 min Scan# 916  
Delta R.T. -0.000 min  
Lab File: BN035281.D  
Acq: 25 Nov 2024 12:40

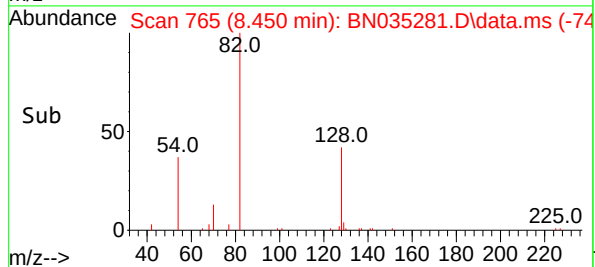
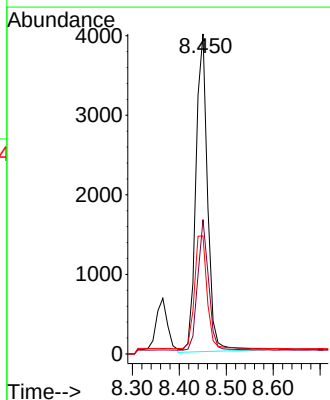
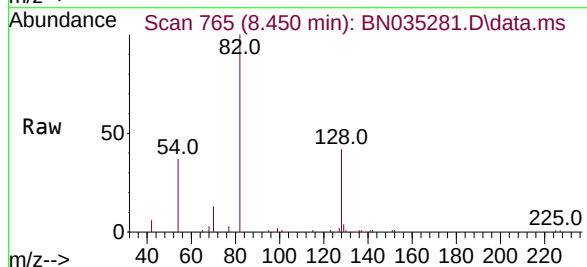
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ClientSampleId :  
SSTDICC1.6

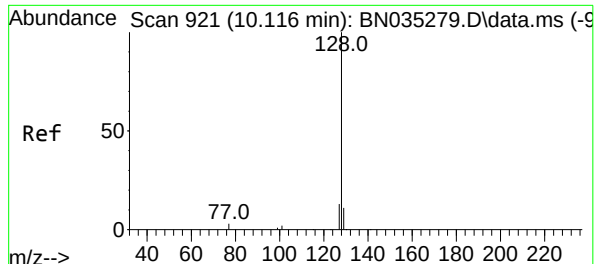
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 136   | Resp: | 4875  |
| Ion      | Ratio | Lower | Upper |
| 136      | 100   |       |       |
| 137      | 12.4  | 9.7   | 14.5  |
| 54       | 6.5   | 5.3   | 7.9   |
| 68       | 7.0   | 5.9   | 8.9   |



#8  
Nitrobenzene-d5  
Concen: 1.635 ng  
RT: 8.450 min Scan# 765  
Delta R.T. -0.000 min  
Lab File: BN035281.D  
Acq: 25 Nov 2024 12:40

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 82    | Resp: | 6940  |
| Ion      | Ratio | Lower | Upper |
| 82       | 100   |       |       |
| 128      | 42.0  | 33.0  | 49.4  |
| 54       | 36.9  | 33.3  | 49.9  |





#9  
Naphthalene

Concen: 1.761 ng

RT: 10.116 min Scan# 921

Delta R.T. -0.000 min

Lab File: BN035281.D

Acq: 25 Nov 2024 12:40

Instrument :

BNA\_N

ClientSampleId :

SSTDICC1.6

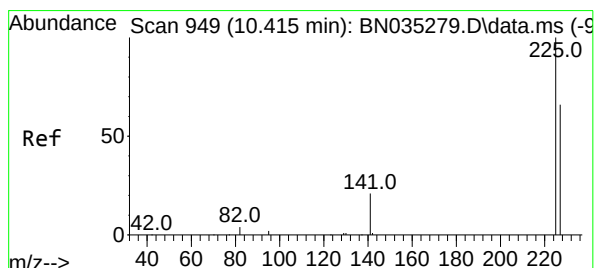
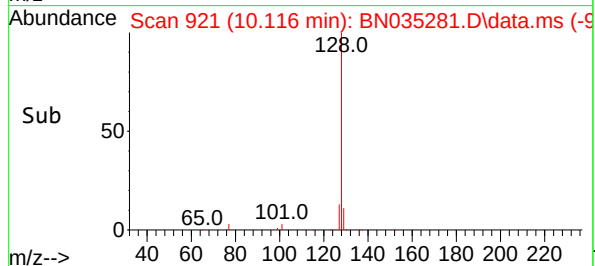
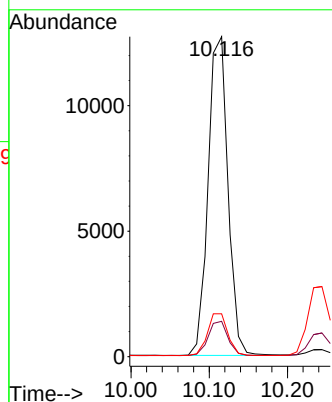
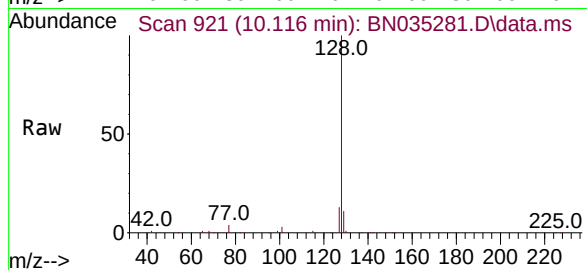
Tgt Ion:128 Resp: 22419

Ion Ratio Lower Upper

128 100

129 11.1 9.6 14.4

127 13.4 11.3 16.9



#10

Hexachlorobutadiene

Concen: 1.770 ng

RT: 10.415 min Scan# 949

Delta R.T. -0.000 min

Lab File: BN035281.D

Acq: 25 Nov 2024 12:40

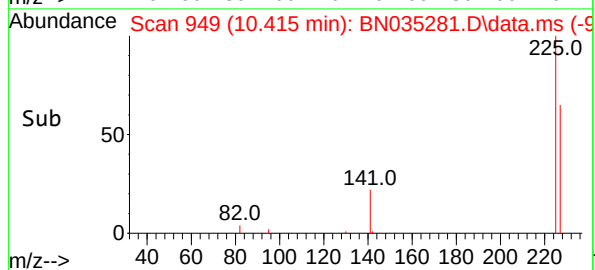
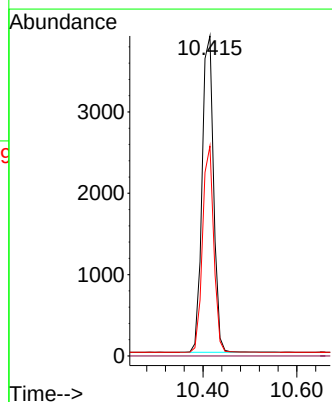
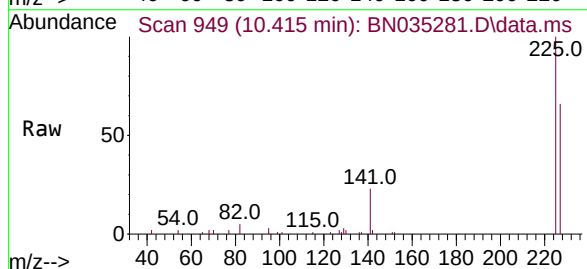
Tgt Ion:225 Resp: 6605

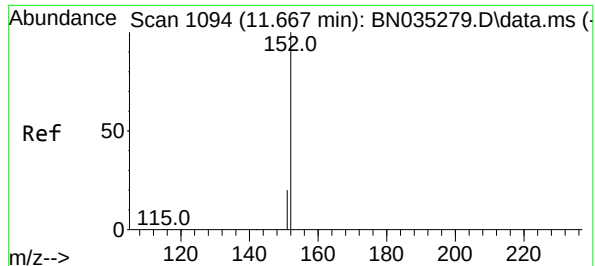
Ion Ratio Lower Upper

225 100

223 0.0 0.0 0.0

227 63.7 51.3 76.9

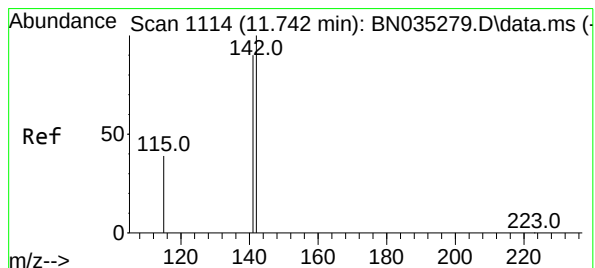
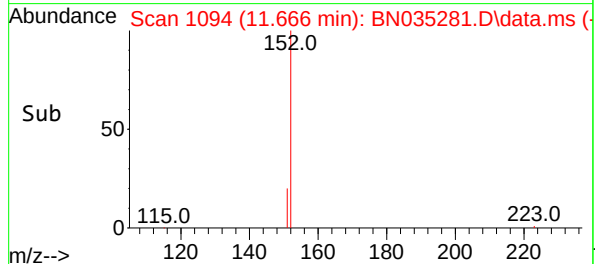
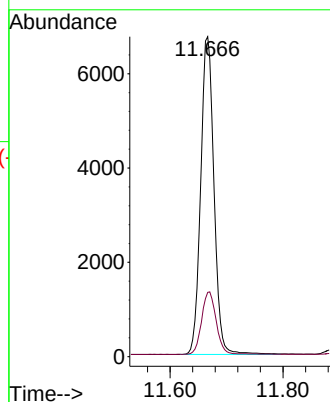
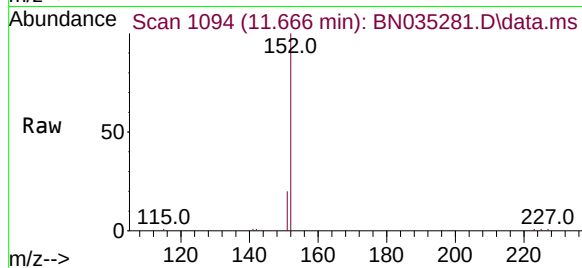




#11  
2-Methylnaphthalene-d10  
Concen: 1.270 ng  
RT: 11.666 min Scan# 11029  
Delta R.T. -0.000 min  
Lab File: BN035281.D  
Acq: 25 Nov 2024 12:40

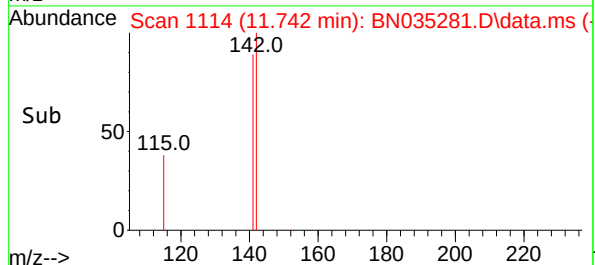
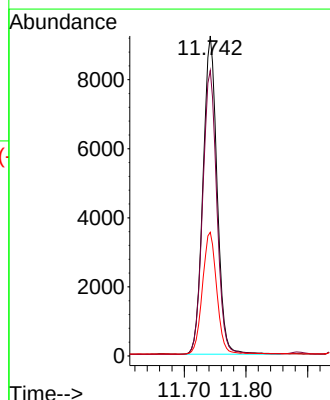
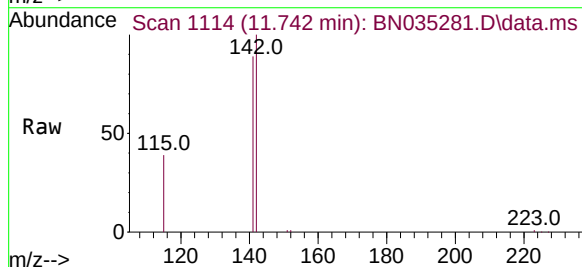
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC1.6

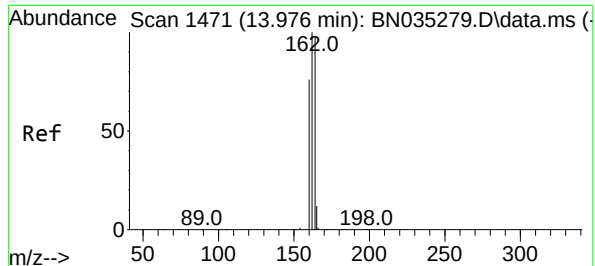
Tgt Ion:152 Resp: 11029  
Ion Ratio Lower Upper  
152 100  
151 21.6 17.2 25.8



#12  
2-Methylnaphthalene  
Concen: 1.553 ng  
RT: 11.742 min Scan# 1114  
Delta R.T. -0.000 min  
Lab File: BN035281.D  
Acq: 25 Nov 2024 12:40

Tgt Ion:142 Resp: 14579  
Ion Ratio Lower Upper  
142 100  
141 89.2 71.8 107.8  
115 38.7 32.6 49.0

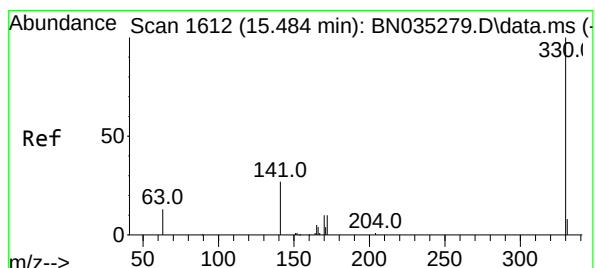
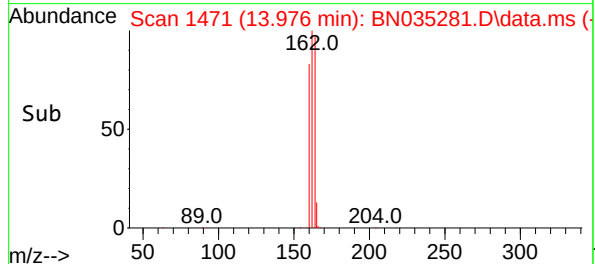
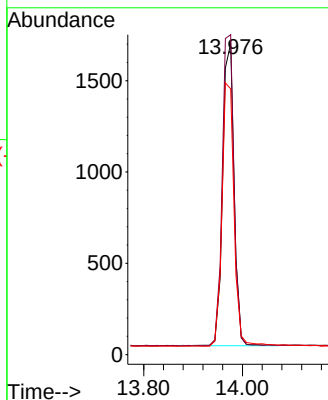
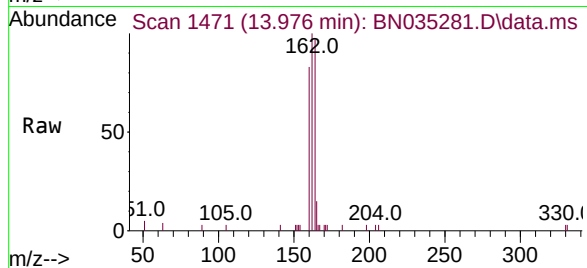




#13  
Acenaphthene-d10  
Concen: 0.400 ng  
RT: 13.976 min Scan# 1471  
Delta R.T. -0.000 min  
Lab File: BN035281.D  
Acq: 25 Nov 2024 12:40

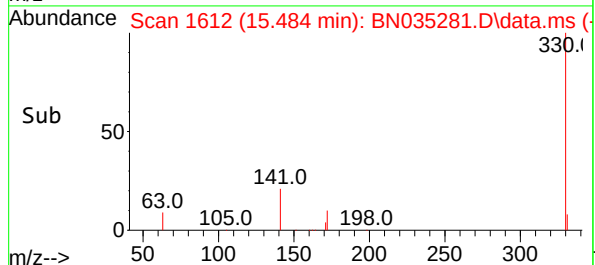
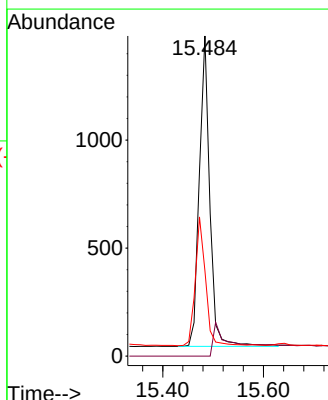
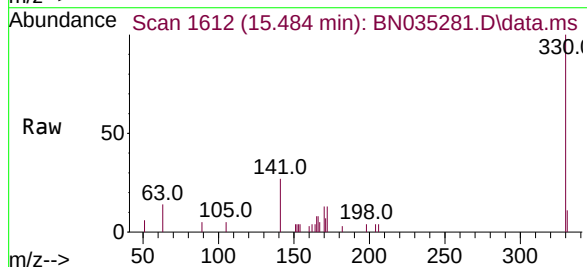
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC1.6

Tgt Ion:164 Resp: 2647  
Ion Ratio Lower Upper  
164 100  
162 102.9 82.0 123.0  
160 85.4 63.0 94.4

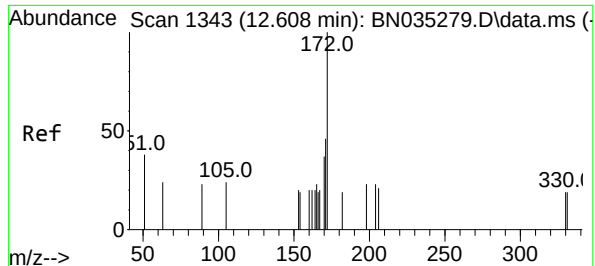


#14  
2,4,6-Tribromophenol  
Concen: 1.178 ng  
RT: 15.484 min Scan# 1612  
Delta R.T. -0.000 min  
Lab File: BN035281.D  
Acq: 25 Nov 2024 12:40

Tgt Ion:330 Resp: 2250  
Ion Ratio Lower Upper  
330 100  
332 0.0 0.0 0.0  
141 40.6 32.4 48.6



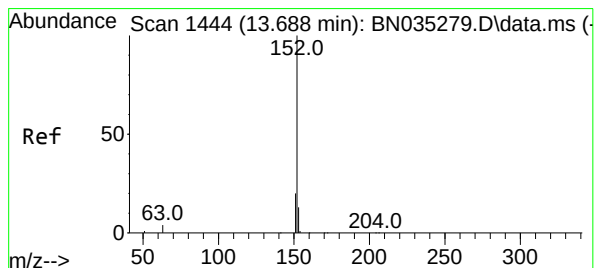
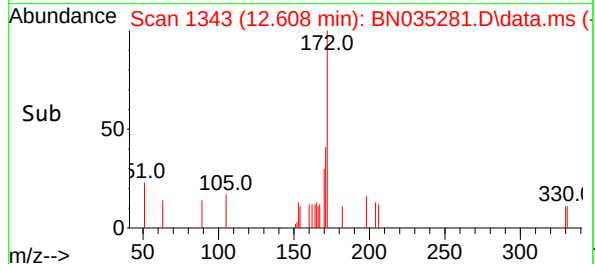
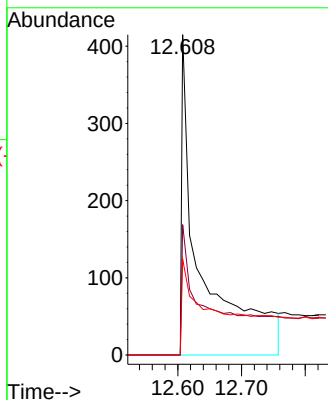
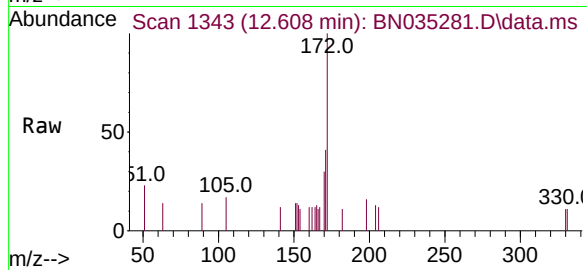




#15  
2-Fluorobiphenyl  
Concen: 0.081 ng  
RT: 12.608 min Scan# 1343  
Delta R.T. -0.000 min  
Lab File: BN035281.D  
Acq: 25 Nov 2024 12:40

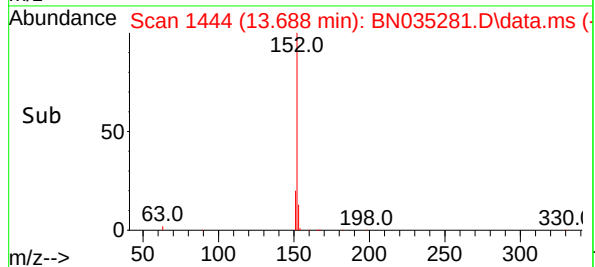
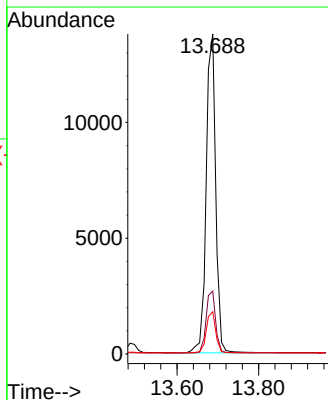
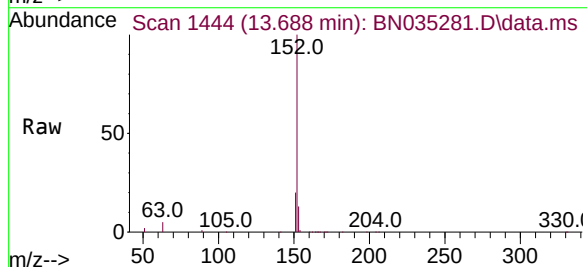
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC1.6

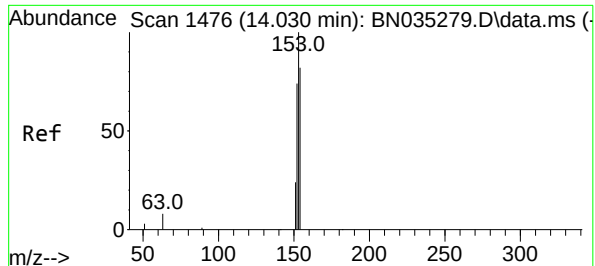
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 172     | 100   |       |       |
| 171     | 40.7  | 36.6  | 55.0  |
| 170     | 29.9  | 29.7  | 44.5  |



#16  
Acenaphthylene  
Concen: 1.982 ng  
RT: 13.688 min Scan# 1444  
Delta R.T. -0.000 min  
Lab File: BN035281.D  
Acq: 25 Nov 2024 12:40

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 151     | 19.3  | 15.9  | 23.9  |
| 153     | 12.9  | 10.2  | 15.4  |

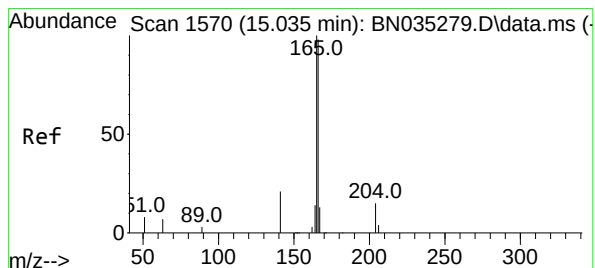
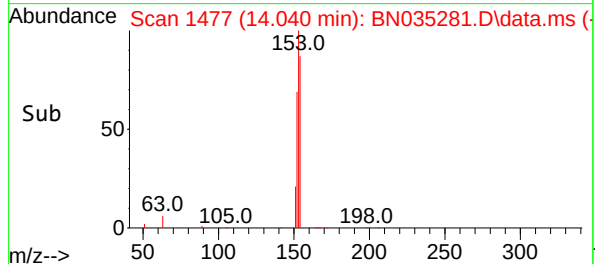
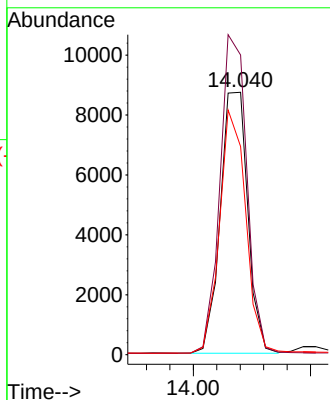
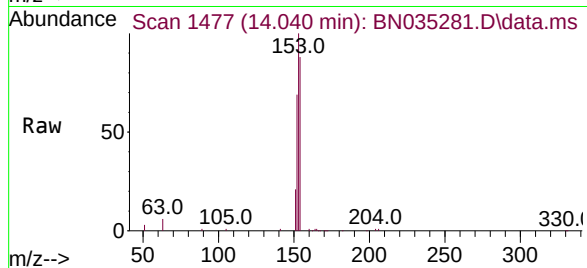




#17  
Acenaphthene  
Concen: 1.915 ng  
RT: 14.040 min Scan# 1476  
Delta R.T. 0.010 min  
Lab File: BN035281.D  
Acq: 25 Nov 2024 12:40

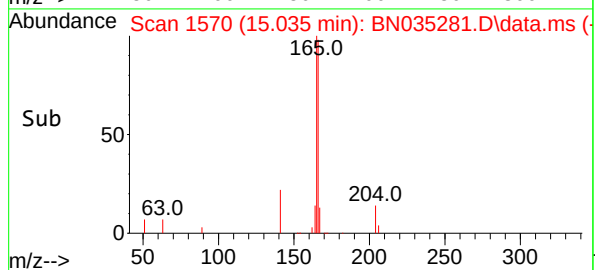
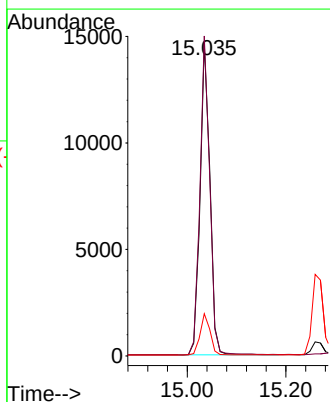
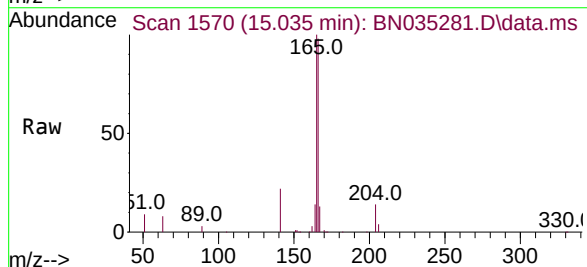
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC1.6

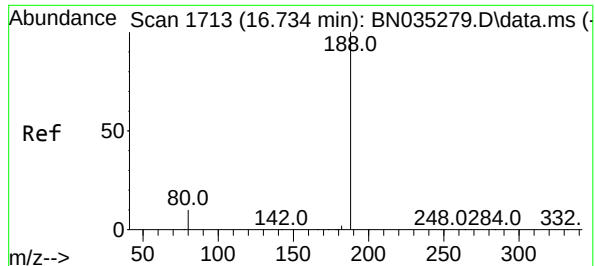
Tgt Ion:154 Resp: 14198  
Ion Ratio Lower Upper  
154 100  
153 119.8 96.1 144.1  
152 90.0 72.2 108.2



#18  
Fluorene  
Concen: 1.852 ng  
RT: 15.035 min Scan# 1570  
Delta R.T. -0.000 min  
Lab File: BN035281.D  
Acq: 25 Nov 2024 12:40

Tgt Ion:166 Resp: 20193  
Ion Ratio Lower Upper  
166 100  
165 102.0 81.2 121.8  
167 13.5 10.5 15.7





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 16.734 min Scan# 1713

Delta R.T. -0.000 min

Lab File: BN035281.D

Acq: 25 Nov 2024 12:40

Instrument :

BNA\_N

ClientSampleId :

SSTDICC1.6

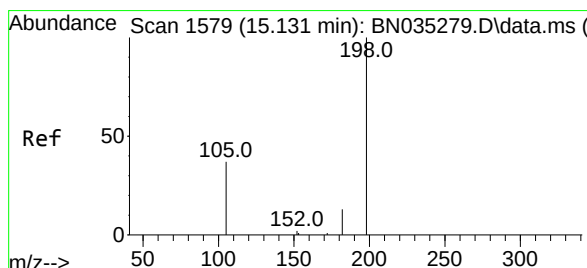
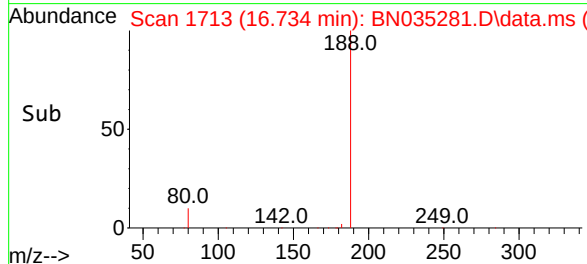
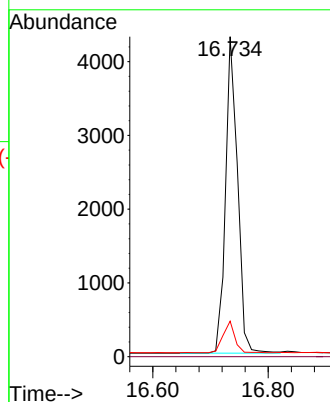
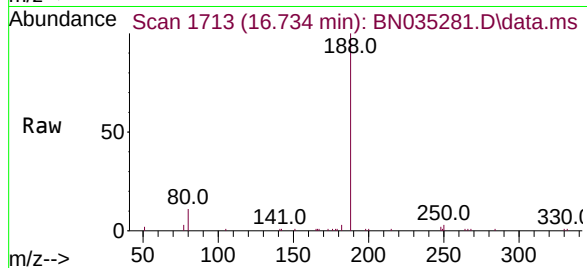
Tgt Ion:188 Resp: 6226

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 11.1 8.9 13.3



#20

4,6-Dinitro-2-methylphenol

Concen: 0.917 ng

RT: 15.131 min Scan# 1579

Delta R.T. -0.000 min

Lab File: BN035281.D

Acq: 25 Nov 2024 12:40

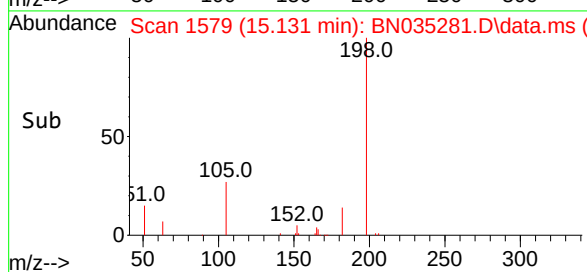
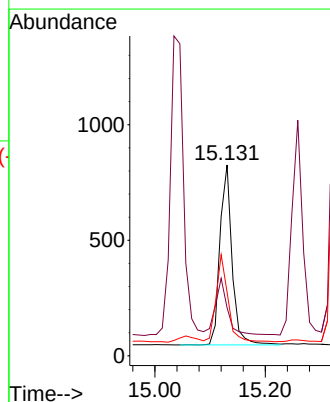
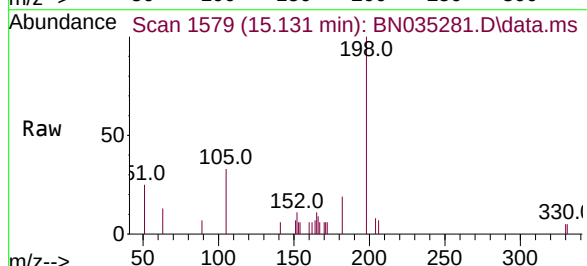
Tgt Ion:198 Resp: 1188

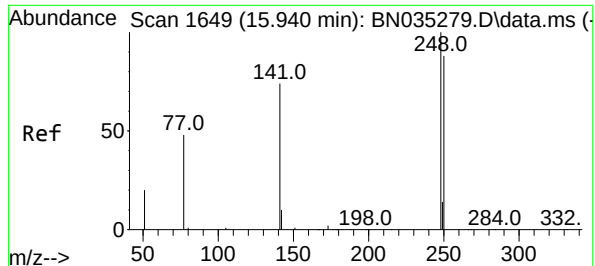
Ion Ratio Lower Upper

198 100

51 25.2 53.6 80.4#

105 33.4 47.4 71.2#

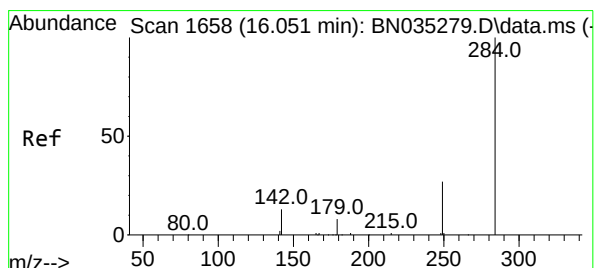
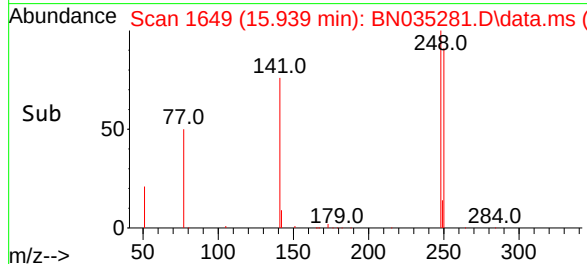
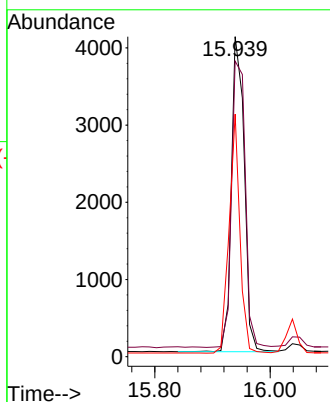
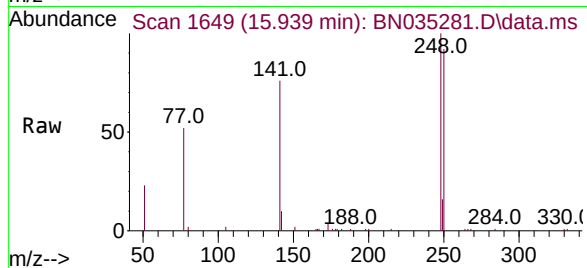




#21  
4-Bromophenyl-phenylether  
Concen: 1.585 ng  
RT: 15.939 min Scan# 1649  
Delta R.T. -0.000 min  
Lab File: BN035281.D  
Acq: 25 Nov 2024 12:40

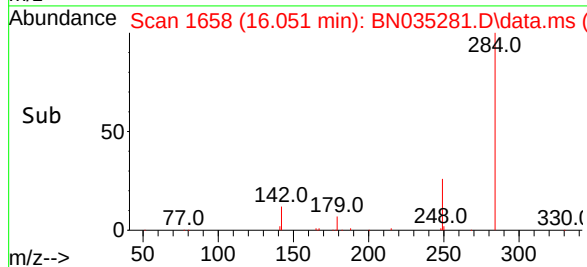
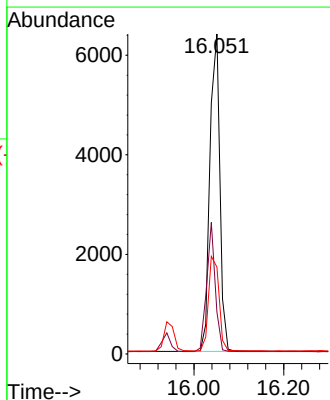
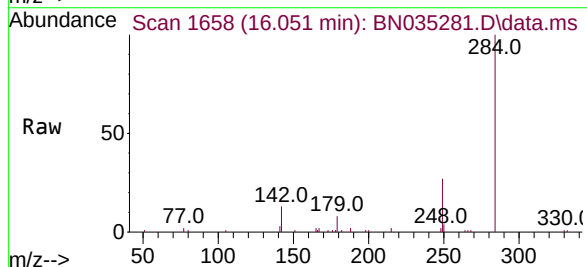
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC1.6

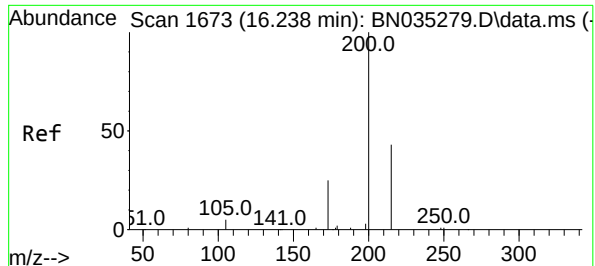
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 248     | 100   |       |       |
| 250     | 92.4  | 74.8  | 112.2 |
| 141     | 75.8  | 59.0  | 88.4  |



#22  
Hexachlorobenzene  
Concen: 2.364 ng  
RT: 16.051 min Scan# 1658  
Delta R.T. -0.000 min  
Lab File: BN035281.D  
Acq: 25 Nov 2024 12:40

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 284     | 100   |       |       |
| 142     | 35.4  | 28.7  | 43.1  |
| 249     | 31.4  | 25.4  | 38.0  |

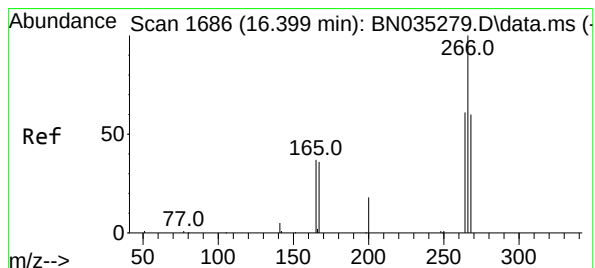
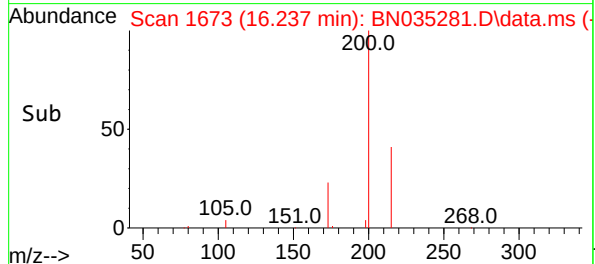
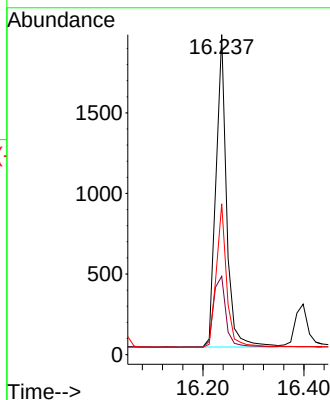
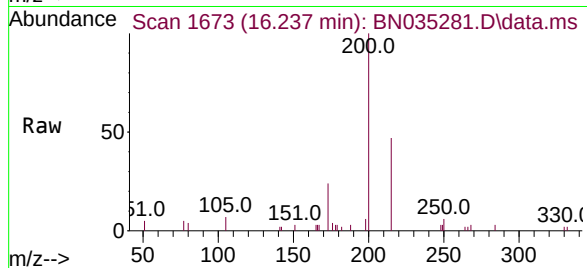




#23  
Atrazine  
Concen: 0.796 ng  
RT: 16.237 min Scan# 1673  
Delta R.T. -0.000 min  
Lab File: BN035281.D  
Acq: 25 Nov 2024 12:40

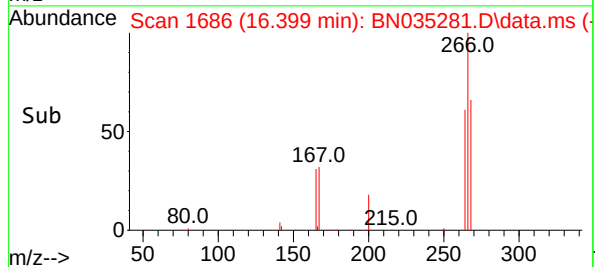
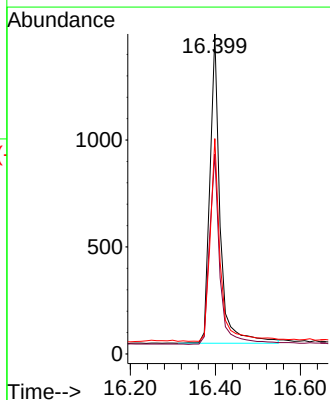
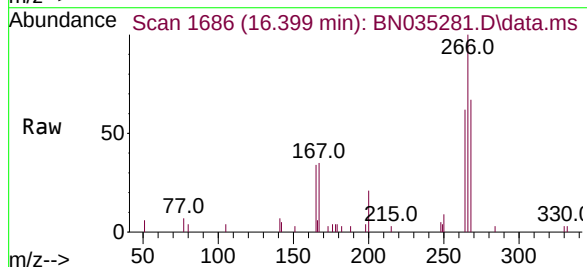
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC1.6

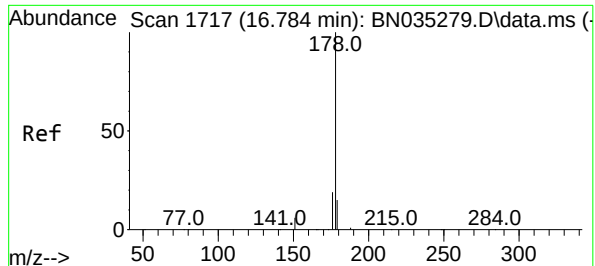
Tgt Ion:200 Resp: 2833  
Ion Ratio Lower Upper  
200 100  
173 24.5 25.8 38.8#  
215 47.2 38.6 58.0



#24  
Pentachlorophenol  
Concen: 1.255 ng  
RT: 16.399 min Scan# 1686  
Delta R.T. -0.000 min  
Lab File: BN035281.D  
Acq: 25 Nov 2024 12:40

Tgt Ion:266 Resp: 2413  
Ion Ratio Lower Upper  
266 100  
264 62.3 49.3 73.9  
268 65.1 48.6 73.0

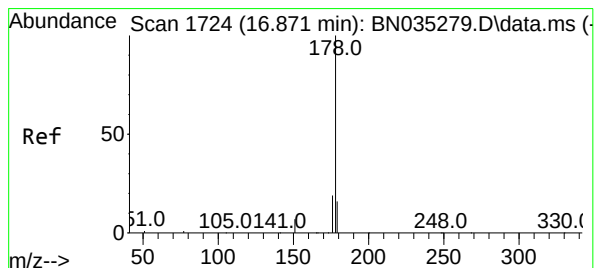
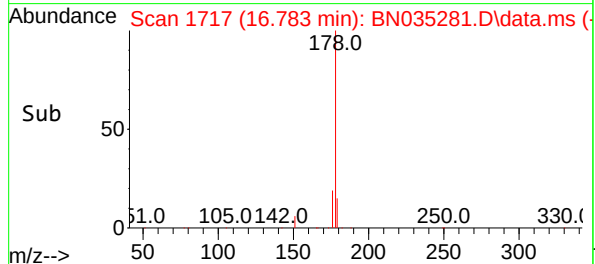
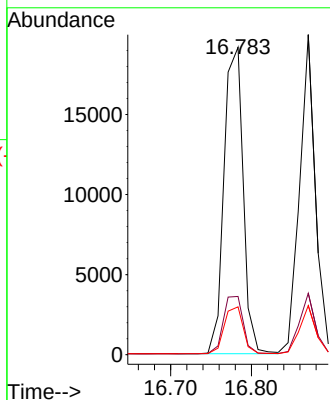
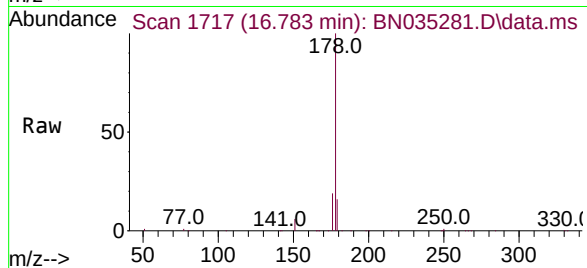




#25  
Phenanthrene  
Concen: 1.932 ng  
RT: 16.783 min Scan# 1717  
Delta R.T. -0.000 min  
Lab File: BN035281.D  
Acq: 25 Nov 2024 12:40

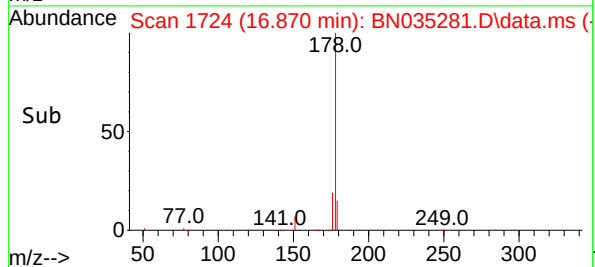
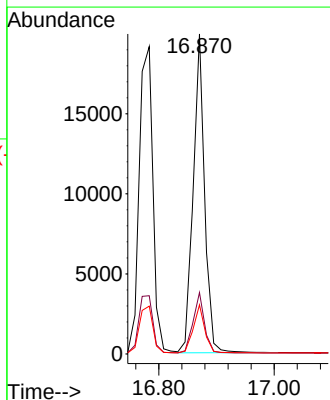
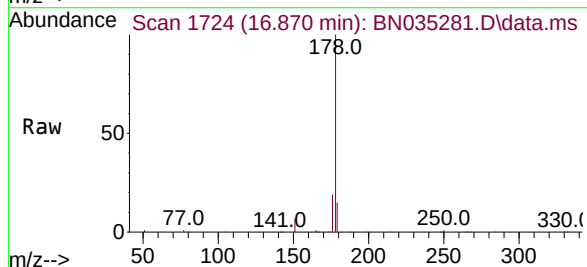
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC1.6

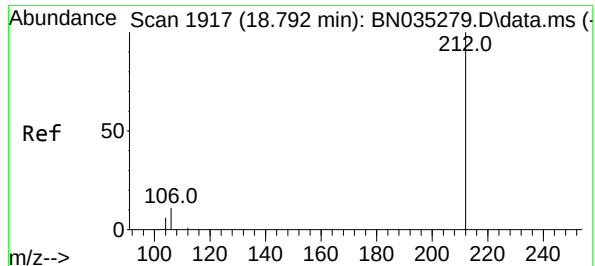
Tgt Ion:178 Resp: 31649  
Ion Ratio Lower Upper  
178 100  
176 19.4 15.4 23.0  
179 15.3 12.6 18.8



#26  
Anthracene  
Concen: 1.820 ng  
RT: 16.870 min Scan# 1724  
Delta R.T. -0.000 min  
Lab File: BN035281.D  
Acq: 25 Nov 2024 12:40

Tgt Ion:178 Resp: 27397  
Ion Ratio Lower Upper  
178 100  
176 19.0 15.0 22.4  
179 15.3 12.4 18.6

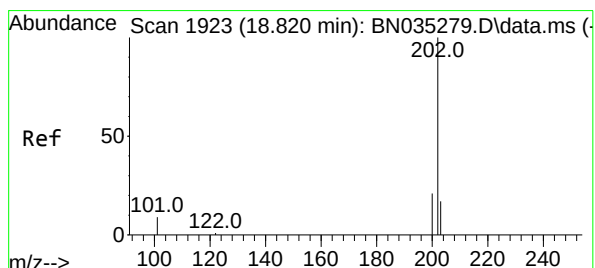
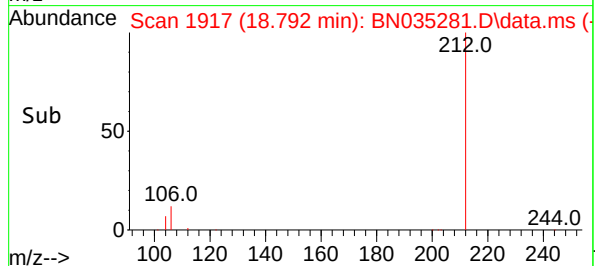
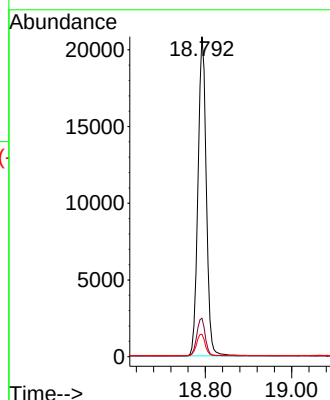
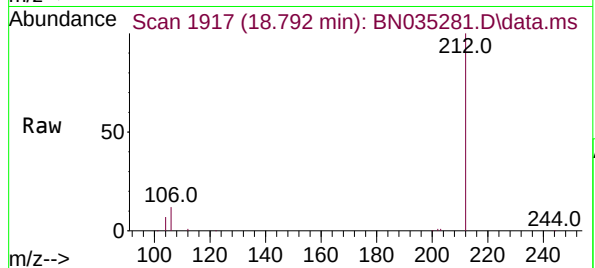




#27  
Fluoranthene-d10  
Concen: 1.462 ng  
RT: 18.792 min Scan# 1917  
Delta R.T. -0.000 min  
Lab File: BN035281.D  
Acq: 25 Nov 2024 12:40

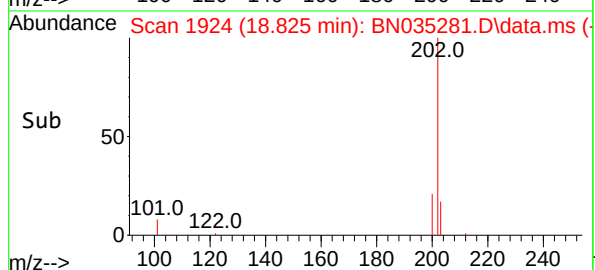
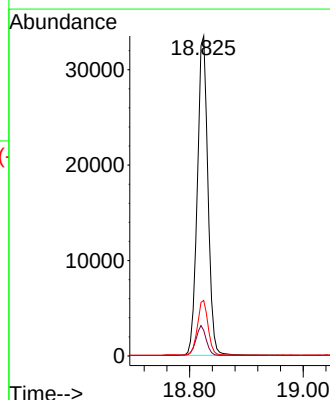
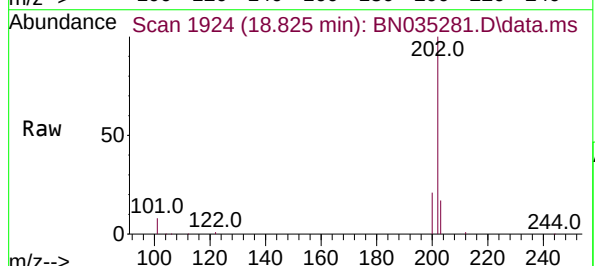
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC1.6

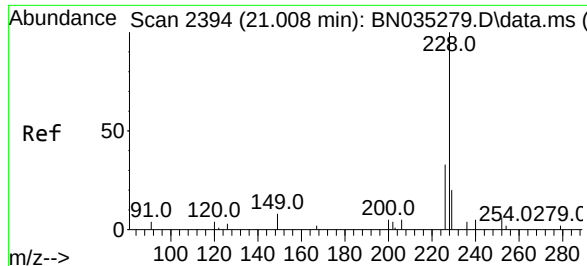
Tgt Ion:212 Resp: 27881  
Ion Ratio Lower Upper  
212 100  
106 12.1 9.8 14.8  
104 7.0 5.6 8.4



#28  
Fluoranthene  
Concen: 1.914 ng  
RT: 18.825 min Scan# 1924  
Delta R.T. 0.004 min  
Lab File: BN035281.D  
Acq: 25 Nov 2024 12:40

Tgt Ion:202 Resp: 43133  
Ion Ratio Lower Upper  
202 100  
101 9.2 7.6 11.4  
203 17.1 13.8 20.8





#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.008 min Scan# 21

Delta R.T. -0.000 min

Lab File: BN035281.D

Acq: 25 Nov 2024 12:40

Instrument :

BNA\_N

ClientSampleId :

SSTDICC1.6

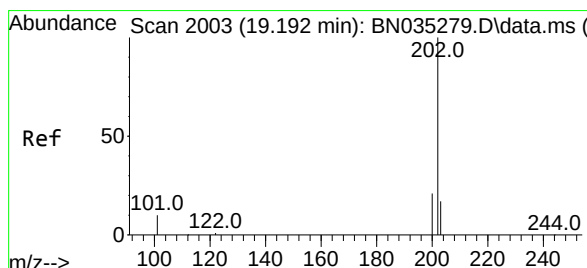
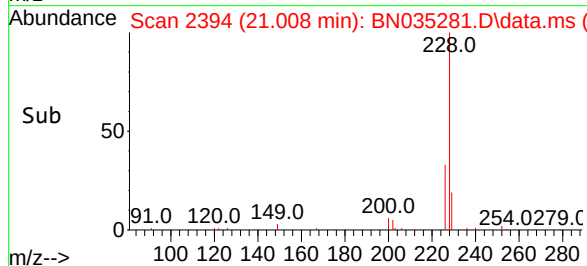
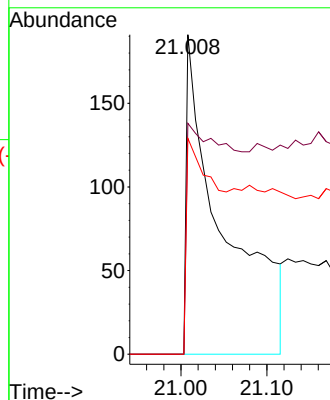
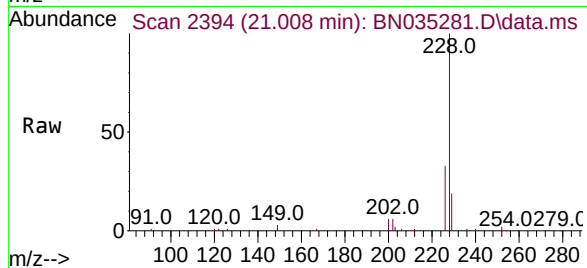
Tgt Ion:240 Resp: 542

Ion Ratio Lower Upper

240 100

120 72.3 54.9 82.3

236 67.5 54.0 81.0



#30

Pyrene

Concen: 21.370 ng

RT: 19.192 min Scan# 2003

Delta R.T. -0.000 min

Lab File: BN035281.D

Acq: 25 Nov 2024 12:40

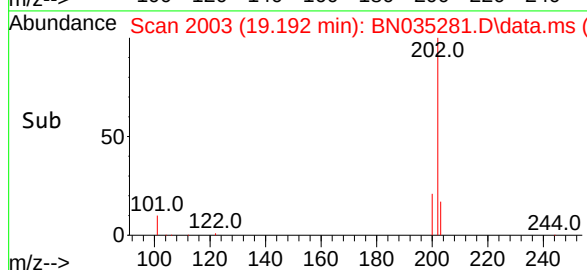
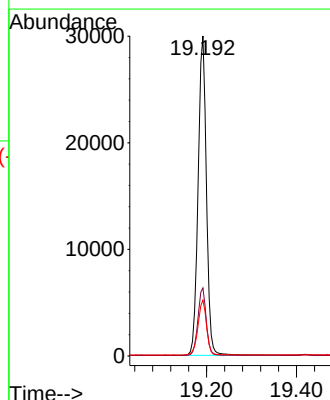
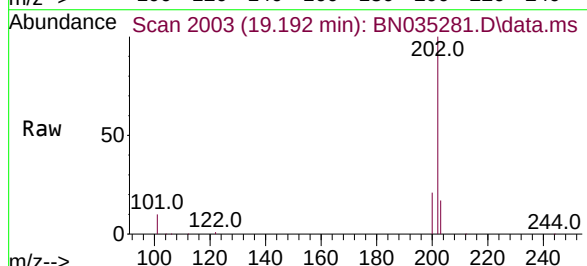
Tgt Ion:202 Resp: 38572

Ion Ratio Lower Upper

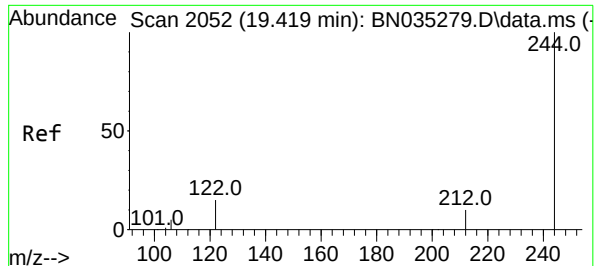
202 100

200 21.2 16.8 25.2

203 17.7 14.4 21.6



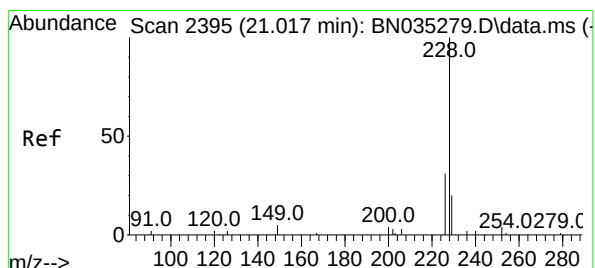
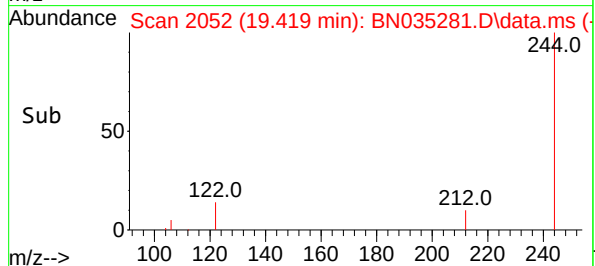
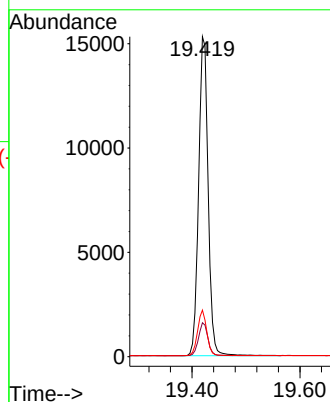
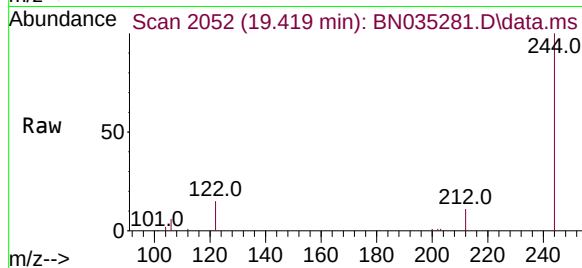




#31  
Terphenyl-d14  
Concen: 16.424 ng  
RT: 19.419 min Scan# 2052  
Delta R.T. -0.000 min  
Lab File: BN035281.D  
Acq: 25 Nov 2024 12:40

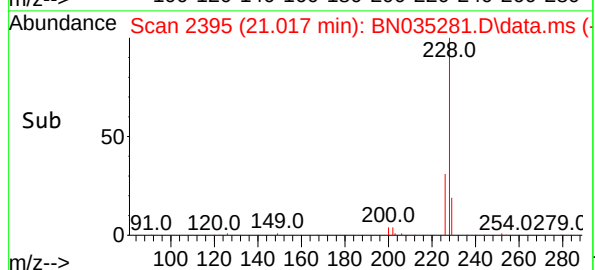
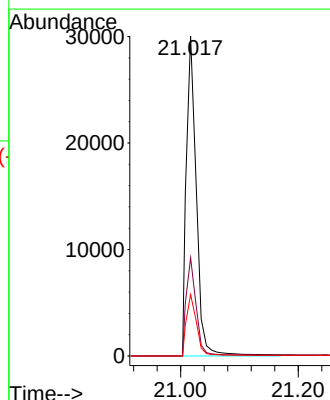
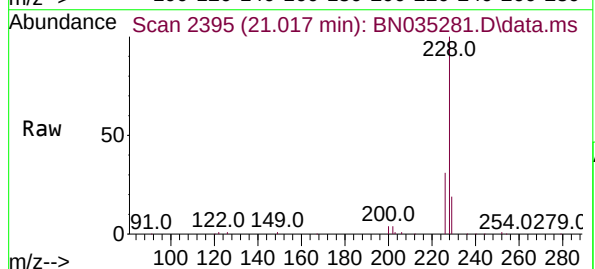
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC1.6

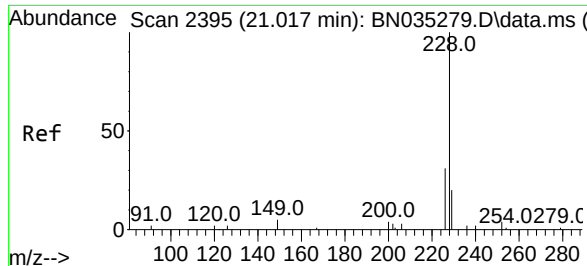
| Tgt Ion:  | 244   | Resp: | 18679 |
|-----------|-------|-------|-------|
| Ion Ratio | Lower | Upper |       |
| 244       | 100   |       |       |
| 212       | 10.6  | 9.4   | 14.0  |
| 122       | 14.6  | 13.0  | 19.4  |



#32  
Benzo(a)anthracene  
Concen: 18.849 ng  
RT: 21.017 min Scan# 2395  
Delta R.T. -0.000 min  
Lab File: BN035281.D  
Acq: 25 Nov 2024 12:40

| Tgt Ion:  | 228   | Resp: | 35573 |
|-----------|-------|-------|-------|
| Ion Ratio | Lower | Upper |       |
| 228       | 100   |       |       |
| 226       | 30.7  | 24.7  | 37.1  |
| 229       | 19.2  | 16.2  | 24.2  |





#33

Chrysene

Concen: 19.028 ng

RT: 21.017 min Scan# 2395

Delta R.T. -0.000 min

Lab File: BN035281.D

Acq: 25 Nov 2024 12:40

Instrument :

BNA\_N

ClientSampleId :

SSTDICC1.6

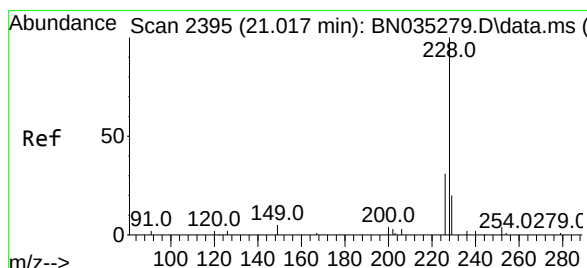
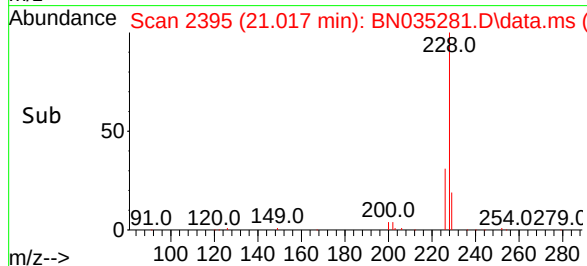
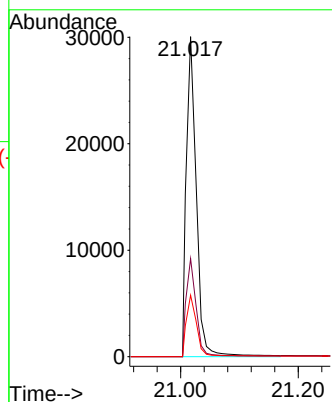
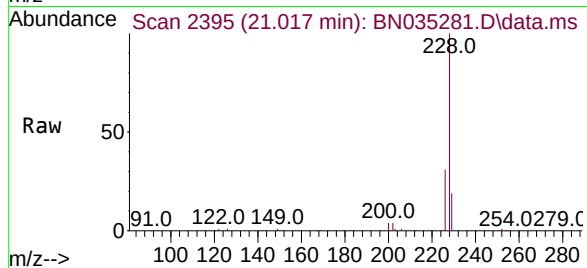
Tgt Ion:228 Resp: 35573

Ion Ratio Lower Upper

228 100

226 30.7 24.7 37.1

229 19.2 16.2 24.2



#34

Bis(2-ethylhexyl)phthalate

Concen: 0.955 ng

RT: 21.017 min Scan# 2395

Delta R.T. -0.000 min

Lab File: BN035281.D

Acq: 25 Nov 2024 12:40

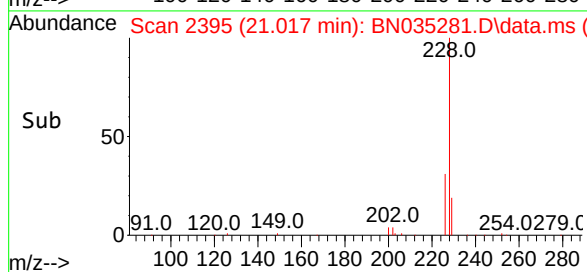
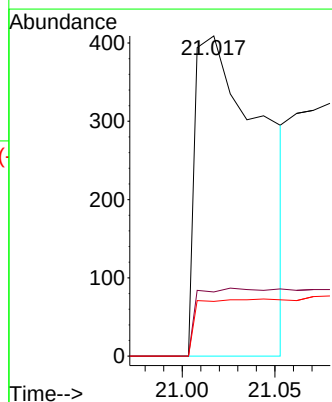
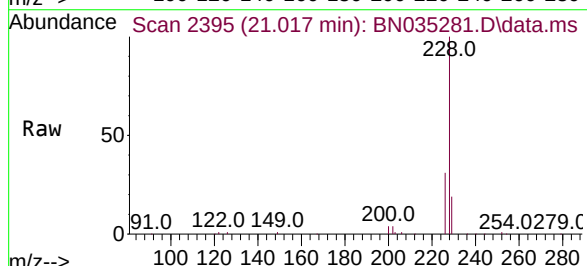
Tgt Ion:149 Resp: 946

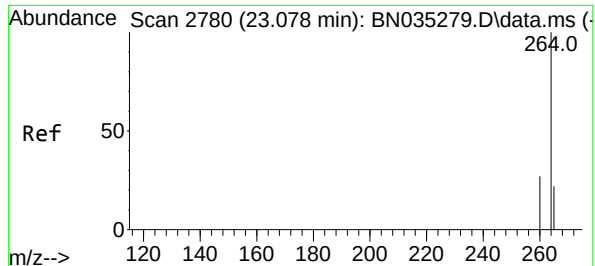
Ion Ratio Lower Upper

149 100

167 20.1 0.0 0.0#

279 0.0 13.0 19.6#





#35

Perylene-d12

Concen: 0.400 ng

RT: 23.081 min Scan# 21

Delta R.T. 0.003 min

Lab File: BN035281.D

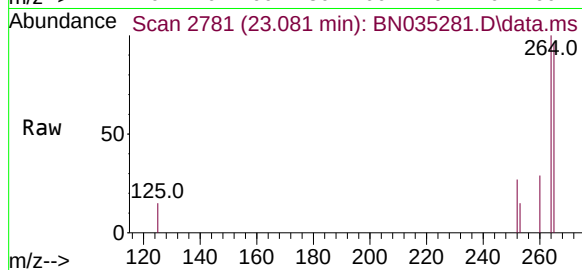
Acq: 25 Nov 2024 12:40

Instrument :

BNA\_N

ClientSampleId :

SSTDICC1.6



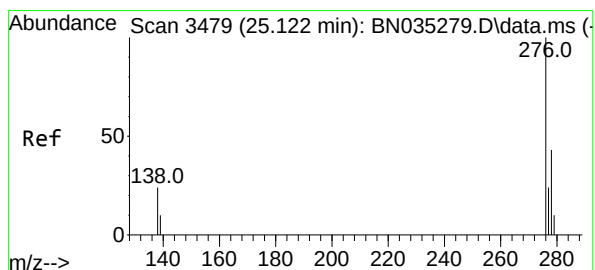
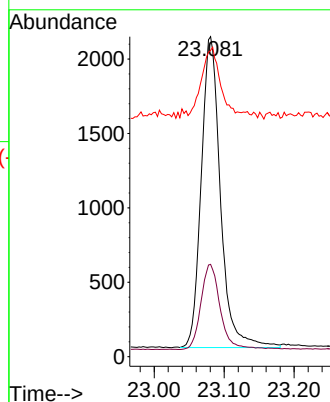
Tgt Ion:264 Resp: 3989

Ion Ratio Lower Upper

264 100

260 28.8 22.3 33.5

265 95.7 68.6 103.0



#36

Indeno(1,2,3-cd)pyrene

Concen: 1.749 ng

RT: 25.124 min Scan# 3480

Delta R.T. 0.003 min

Lab File: BN035281.D

Acq: 25 Nov 2024 12:40

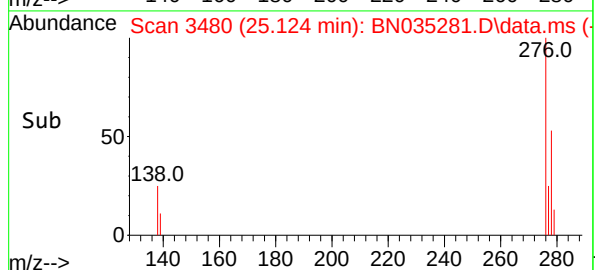
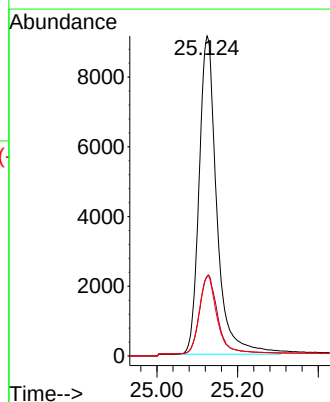
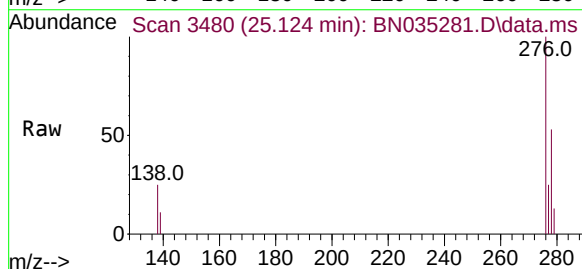
Tgt Ion:276 Resp: 27825

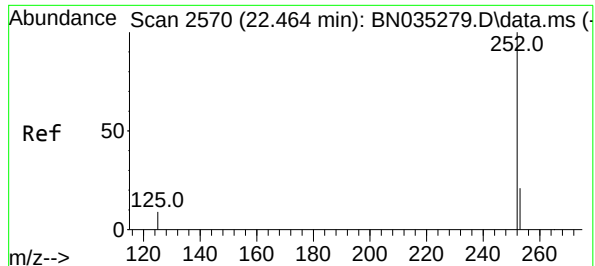
Ion Ratio Lower Upper

276 100

138 24.8 18.8 28.2

277 24.3 18.2 27.4





#37

Benzo(b)fluoranthene

Concen: 2.232 ng

RT: 22.467 min Scan# 2571

Delta R.T. 0.003 min

Lab File: BN035281.D

Acq: 25 Nov 2024 12:40

Instrument :

BNA\_N

ClientSampleId :

SSTDICC1.6

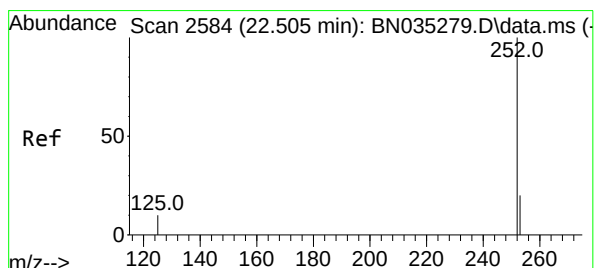
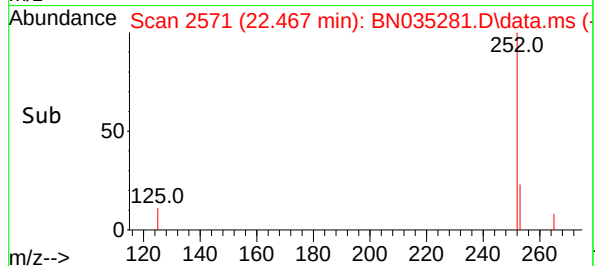
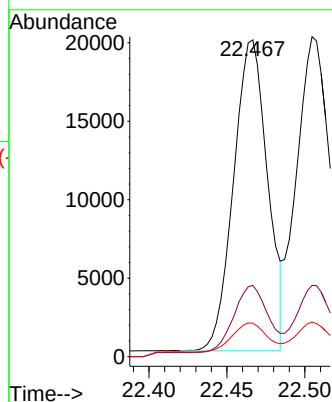
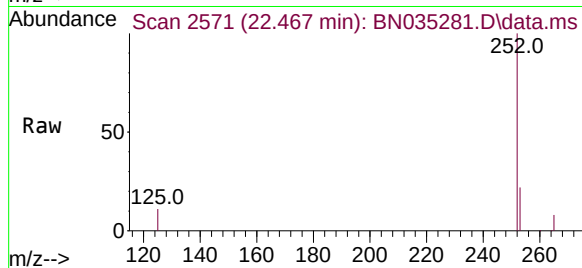
Tgt Ion:252 Resp: 29950

Ion Ratio Lower Upper

252 100

253 22.5 20.2 30.2

125 10.6 12.0 18.0#



#38

Benzo(k)fluoranthene

Concen: 2.434 ng

RT: 22.505 min Scan# 2584

Delta R.T. -0.000 min

Lab File: BN035281.D

Acq: 25 Nov 2024 12:40

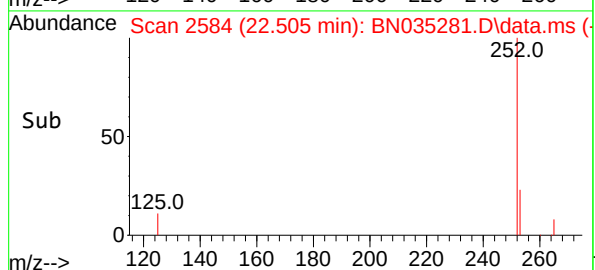
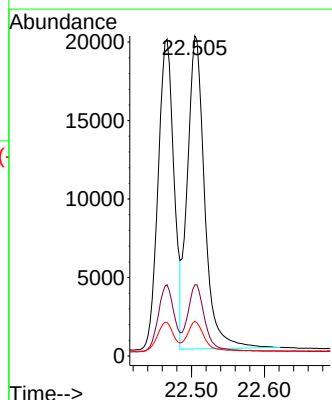
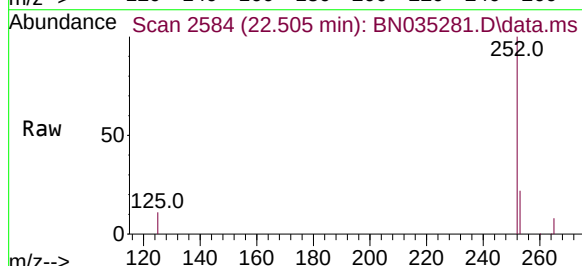
Tgt Ion:252 Resp: 32689

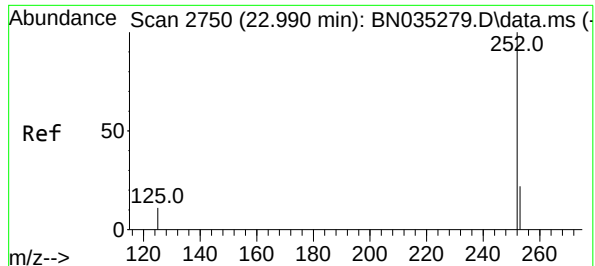
Ion Ratio Lower Upper

252 100

253 22.2 20.1 30.1

125 10.8 12.7 19.1#





#39

Benzo(a)pyrene

Concen: 1.929 ng

RT: 22.990 min Scan# 21

Delta R.T. -0.000 min

Lab File: BN035281.D

Acq: 25 Nov 2024 12:40

Instrument :

BNA\_N

ClientSampleId :

SSTDICC1.6

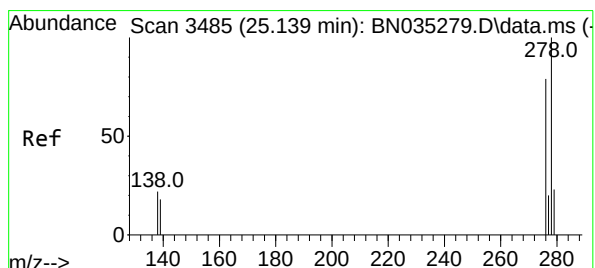
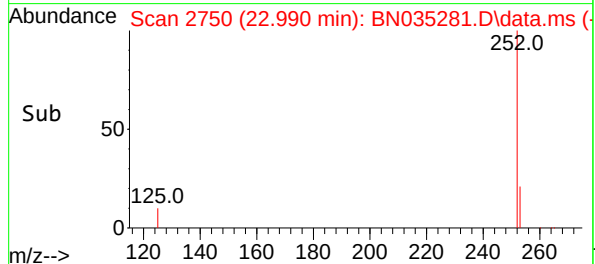
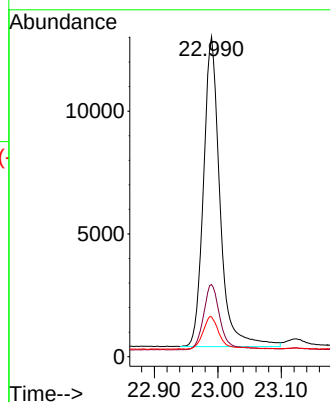
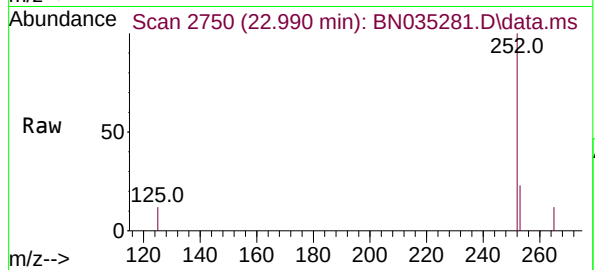
Tgt Ion:252 Resp: 22785

Ion Ratio Lower Upper

252 100

253 22.5 22.3 33.5

125 12.5 15.3 22.9#



#40

Dibenzo(a,h)anthracene

Concen: 1.712 ng

RT: 25.142 min Scan# 3486

Delta R.T. 0.003 min

Lab File: BN035281.D

Acq: 25 Nov 2024 12:40

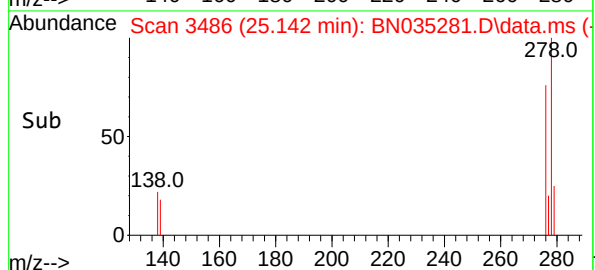
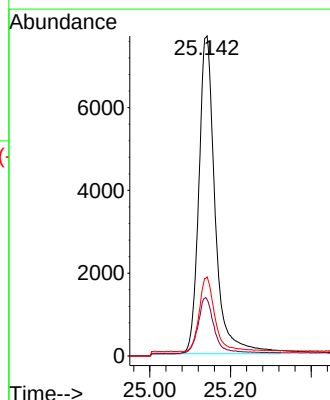
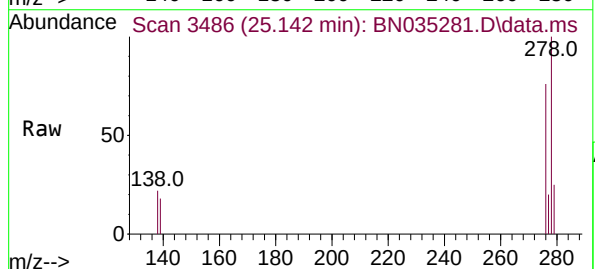
Tgt Ion:278 Resp: 21588

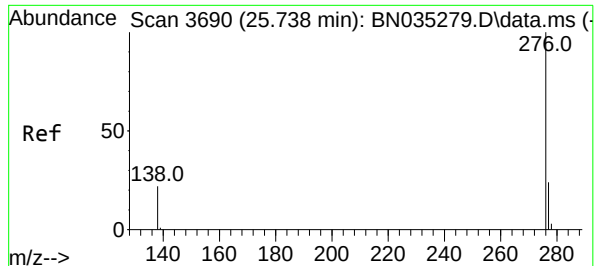
Ion Ratio Lower Upper

278 100

139 17.6 17.0 25.6

279 24.7 23.0 34.4





#41

Benzo(g,h,i)perylene

Concen: 1.794 ng

RT: 25.738 min Scan# 30

Delta R.T. -0.000 min

Lab File: BN035281.D

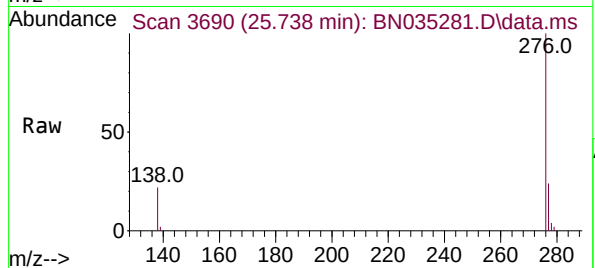
Acq: 25 Nov 2024 12:40

Instrument :

BNA\_N

ClientSampleId :

SSTDICC1.6



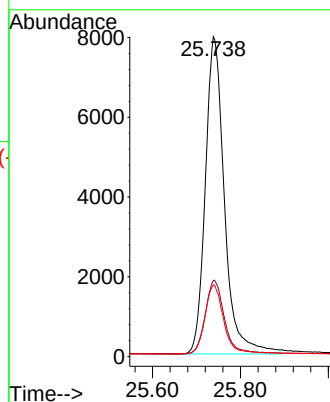
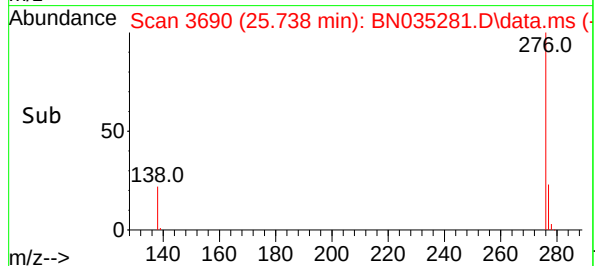
Tgt Ion:276 Resp: 24058

Ion Ratio Lower Upper

276 100

277 23.8 21.1 31.7

138 22.4 19.8 29.8



Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN112524\  
 Data File : BN035282.D  
 Acq On : 25 Nov 2024 13:16  
 Operator : RC/JU  
 Sample : SSTDICC3.2  
 Misc :  
 ALS Vial : 57 Sample Multiplier: 1

Instrument :  
 BNA\_N  
 ClientSampleId :  
 SSTDICC3.2

Quant Time: Nov 25 14:21:04 2024  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\8270-SIM-BN112524.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Mon Nov 25 14:16:35 2024  
 Response via : Initial Calibration

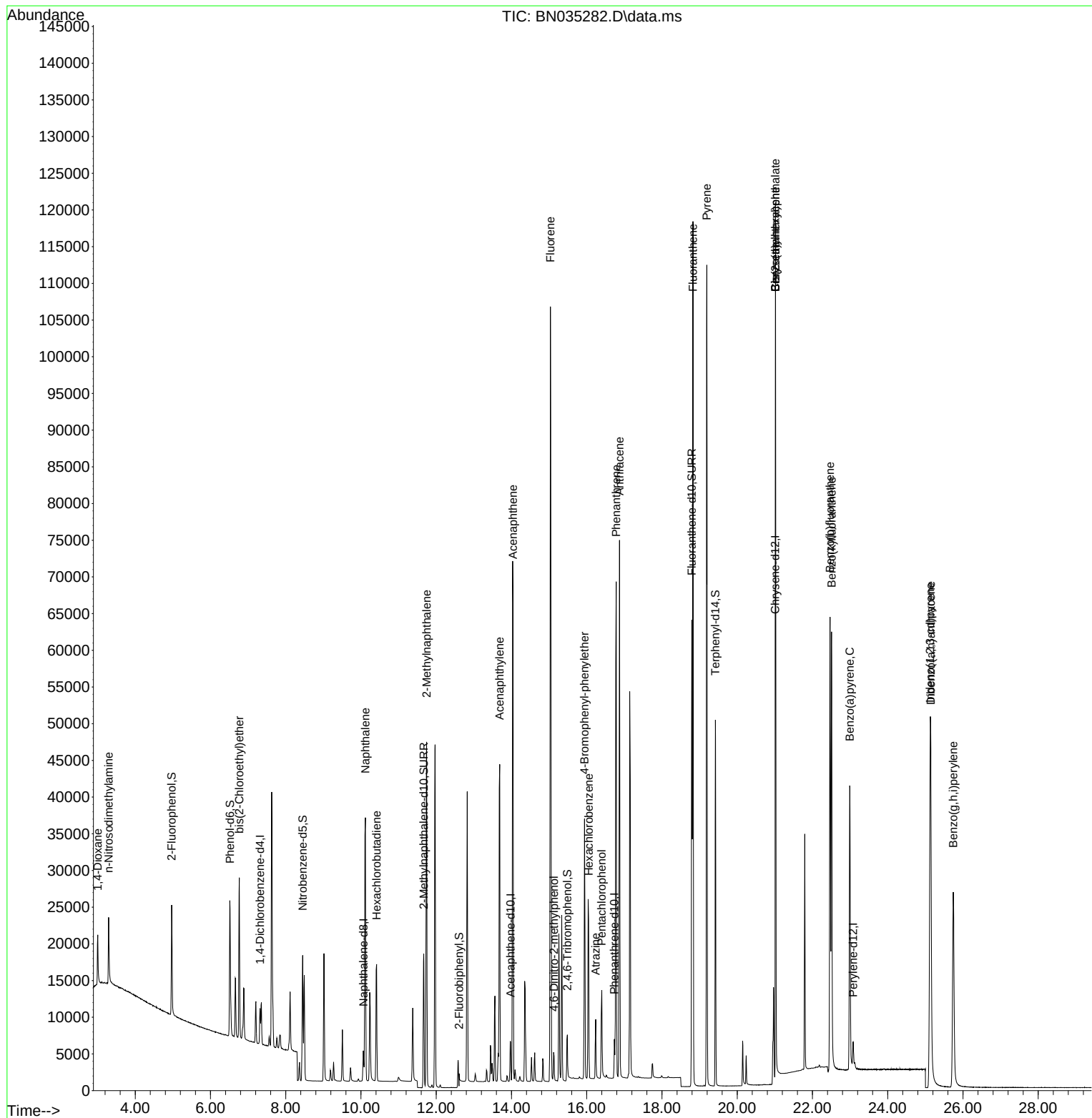
| Compound                      | R.T.   | QIon | Response | Conc   | Units | Dev(Min) |
|-------------------------------|--------|------|----------|--------|-------|----------|
| -----                         |        |      |          |        |       |          |
| Internal Standards            |        |      |          |        |       |          |
| 1) 1,4-Dichlorobenzene-d4     | 7.315  | 152  | 2270     | 0.400  | ng    | 0.00     |
| 7) Naphthalene-d8             | 10.063 | 136  | 5138     | 0.400  | ng    | 0.00     |
| 13) Acenaphthene-d10          | 13.976 | 164  | 2927     | 0.400  | ng    | 0.00     |
| 19) Phenanthrene-d10          | 16.734 | 188  | 6761     | 0.400  | ng    | 0.00     |
| 29) Chrysene-d12              | 21.008 | 240  | 721      | 0.400  | ng    | 0.00     |
| 35) Perylene-d12              | 23.081 | 264  | 4343     | 0.400  | ng    | 0.00     |
|                               |        |      |          |        |       |          |
| System Monitoring Compounds   |        |      |          |        |       |          |
| 4) 2-Fluorophenol             | 4.968  | 112  | 12319    | 2.138  | ng    | 0.00     |
| 5) Phenol-d6                  | 6.520  | 99   | 17485    | 2.420  | ng    | 0.00     |
| 8) Nitrobenzene-d5            | 8.450  | 82   | 14309    | 3.199  | ng    | 0.00     |
| 11) 2-Methylnaphthalene-d10   | 11.667 | 152  | 23828    | 2.602  | ng    | 0.00     |
| 14) 2,4,6-Tribromophenol      | 15.484 | 330  | 5391     | 2.553  | ng    | 0.00     |
| 15) 2-Fluorobiphenyl          | 12.608 | 172  | 1139     | 0.096  | ng    | 0.00     |
| 27) Fluoranthene-d10          | 18.792 | 212  | 66182    | 3.195  | ng    | 0.00     |
| 31) Terphenyl-d14             | 19.419 | 244  | 44092    | 29.144 | ng    | 0.00     |
|                               |        |      |          |        |       |          |
| Target Compounds              |        |      |          |        |       | Qvalue   |
| 2) 1,4-Dioxane                | 3.003  | 88   | 4753     | 2.305  | ng    | # 77     |
| 3) n-Nitrosodimethylamine     | 3.292  | 42   | 5433     | 2.827  | ng    | # 85     |
| 6) bis(2-Chloroethyl)ether    | 6.766  | 93   | 15869    | 2.926  | ng    | 100      |
| 9) Naphthalene                | 10.116 | 128  | 46866    | 3.494  | ng    | 98       |
| 10) Hexachlorobutadiene       | 10.415 | 225  | 13571    | 3.452  | ng    | # 99     |
| 12) 2-Methylnaphthalene       | 11.742 | 142  | 32151    | 3.249  | ng    | 98       |
| 16) Acenaphthylene            | 13.688 | 152  | 50280    | 4.019  | ng    | 99       |
| 17) Acenaphthene              | 14.040 | 154  | 32466    | 3.960  | ng    | 96       |
| 18) Fluorene                  | 15.035 | 166  | 46490    | 3.855  | ng    | 99       |
| 20) 4,6-Dinitro-2-methylph... | 15.131 | 198  | 3008     | 2.137  | ng    | # 48     |
| 21) 4-Bromophenyl-phenylether | 15.939 | 248  | 14640    | 3.399  | ng    | 99       |
| 22) Hexachlorobenzene         | 16.051 | 284  | 20624    | 4.614  | ng    | 100      |
| 23) Atrazine                  | 16.237 | 200  | 6312     | 1.633  | ng    | # 92     |
| 24) Pentachlorophenol         | 16.399 | 266  | 6031     | 2.888  | ng    | 97       |
| 25) Phenanthrene              | 16.784 | 178  | 73801    | 4.148  | ng    | 99       |
| 26) Anthracene                | 16.870 | 178  | 67705    | 4.143  | ng    | 100      |
| 28) Fluoranthene              | 18.825 | 202  | 102229   | 4.178  | ng    | 100      |
| 30) Pyrene                    | 19.192 | 202  | 93180    | 38.808 | ng    | 99       |
| 32) Benzo(a)anthracene        | 21.017 | 228  | 82975    | 33.051 | ng    | 99       |
| 33) Chrysene                  | 21.017 | 228  | 82975    | 33.364 | ng    | 99       |
| 34) Bis(2-ethylhexyl)phtha... | 21.017 | 149  | 1320     | 1.002  | ng    | # 84     |
| 36) Indeno(1,2,3-cd)pyrene    | 25.127 | 276  | 62075    | 3.583  | ng    | 97       |
| 37) Benzo(b)fluoranthene      | 22.467 | 252  | 69657    | 4.767  | ng    | # 91     |
| 38) Benzo(k)fluoranthene      | 22.508 | 252  | 72243    | 4.941  | ng    | # 91     |
| 39) Benzo(a)pyrene            | 22.990 | 252  | 51266    | 3.987  | ng    | # 87     |
| 40) Dibenzo(a,h)anthracene    | 25.145 | 278  | 48696    | 3.547  | ng    | 91       |
| 41) Benzo(g,h,i)perylene      | 25.744 | 276  | 52706    | 3.610  | ng    | 94       |
| -----                         |        |      |          |        |       |          |

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

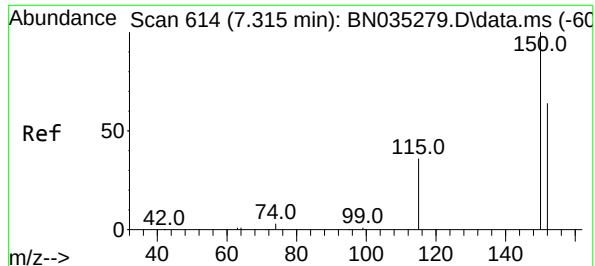
Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN112524\  
Data File : BN035282.D  
Acq On : 25 Nov 2024 13:16  
Operator : RC/JU  
Sample : SSTDICC3.2  
Misc :  
ALS Vial : 57 Sample Multiplier: 1

Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC3.2

Quant Time: Nov 25 14:21:04 2024  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\8270-SIM-BN112524.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Mon Nov 25 14:16:35 2024  
Response via : Initial Calibration

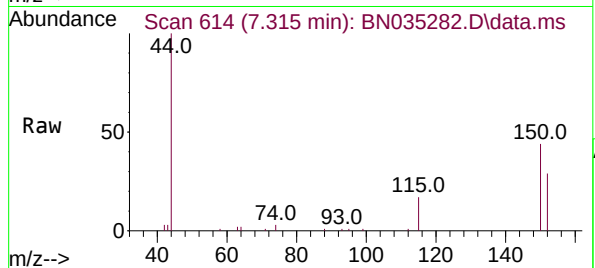




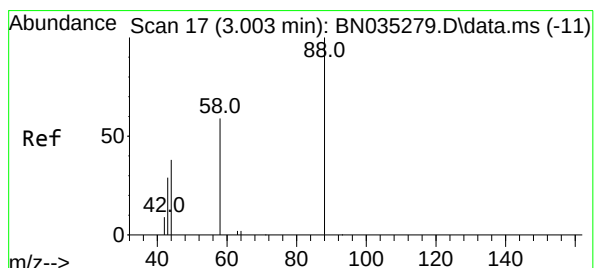
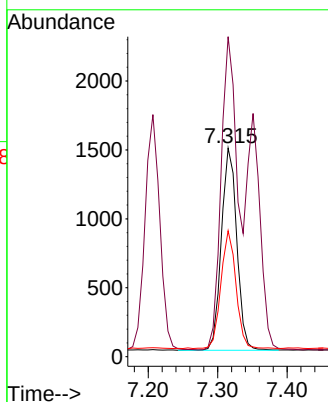
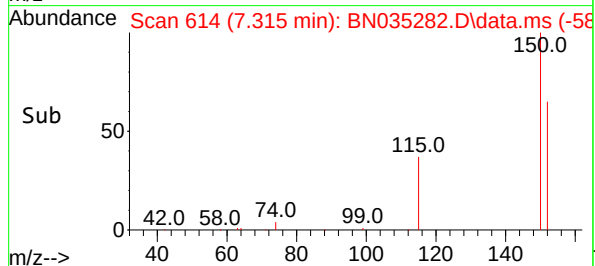


#1  
1,4-Dichlorobenzene-d4  
Concen: 0.400 ng  
RT: 7.315 min Scan# 61  
Delta R.T. -0.000 min  
Lab File: BN035282.D  
Acq: 25 Nov 2024 13:16

Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC3.2

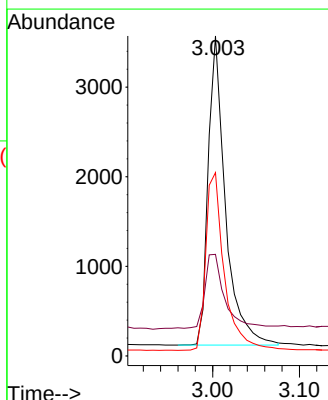
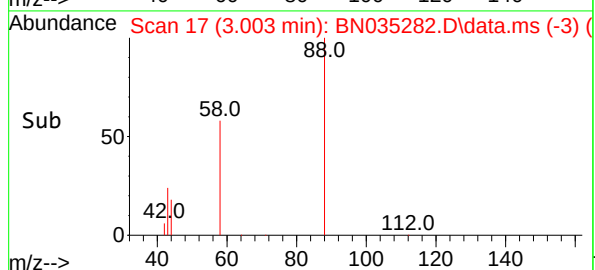
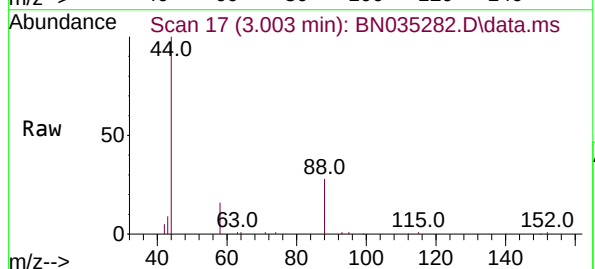


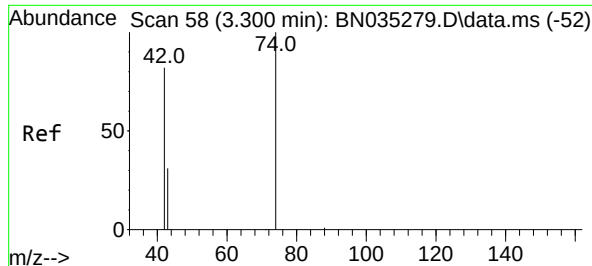
Tgt Ion:152 Resp: 2270  
Ion Ratio Lower Upper  
152 100  
150 153.4 124.5 186.7  
115 60.4 47.8 71.8



#2  
1,4-Dioxane  
Concen: 2.305 ng  
RT: 3.003 min Scan# 17  
Delta R.T. -0.000 min  
Lab File: BN035282.D  
Acq: 25 Nov 2024 13:16

Tgt Ion: 88 Resp: 4753  
Ion Ratio Lower Upper  
88 100  
43 29.5 48.1 72.1#  
58 61.9 46.9 70.3

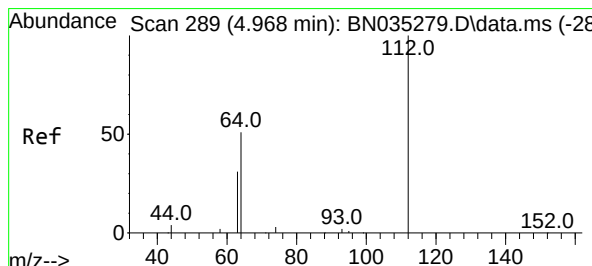
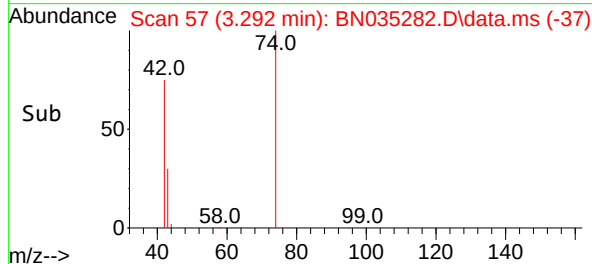
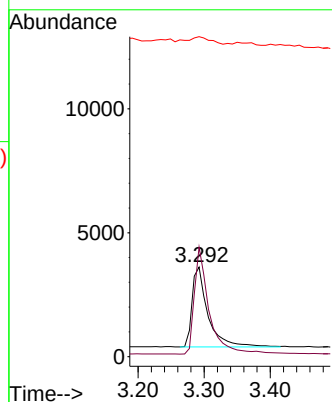
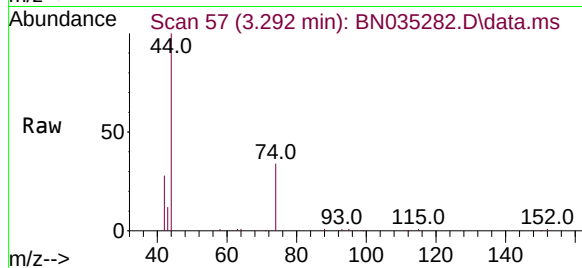




#3  
n-Nitrosodimethylamine  
Concen: 2.827 ng  
RT: 3.292 min Scan# 51  
Delta R.T. -0.007 min  
Lab File: BN035282.D  
Acq: 25 Nov 2024 13:16

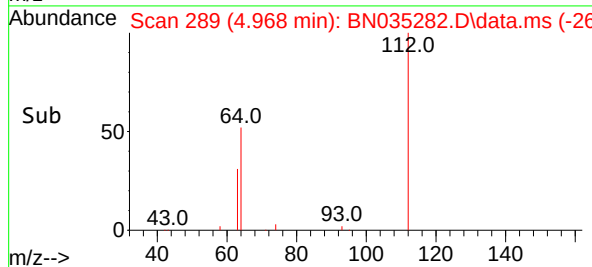
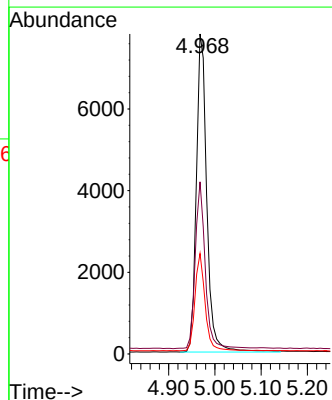
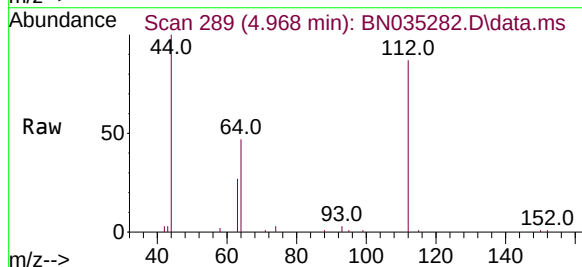
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC3.2

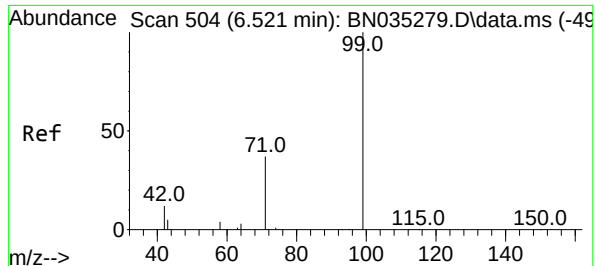
Tgt Ion: 42 Resp: 5433  
Ion Ratio Lower Upper  
42 100  
74 124.6 102.7 154.1  
44 9.3 34.1 51.1#



#4  
2-Fluorophenol  
Concen: 2.138 ng  
RT: 4.968 min Scan# 289  
Delta R.T. -0.000 min  
Lab File: BN035282.D  
Acq: 25 Nov 2024 13:16

Tgt Ion: 112 Resp: 12319  
Ion Ratio Lower Upper  
112 100  
64 50.4 40.4 60.6  
63 29.7 23.8 35.8

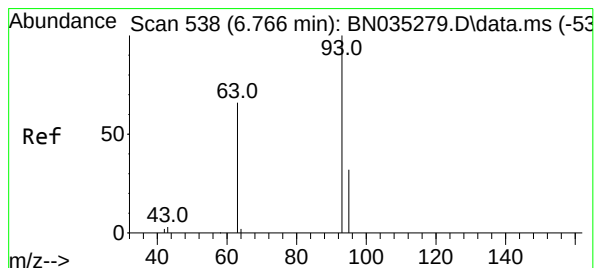
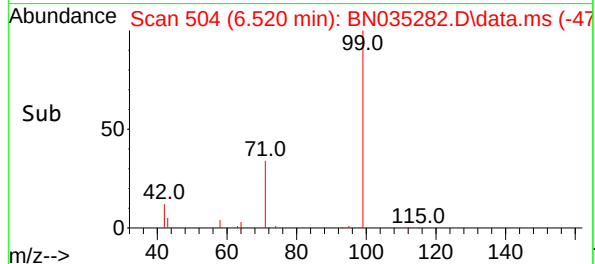
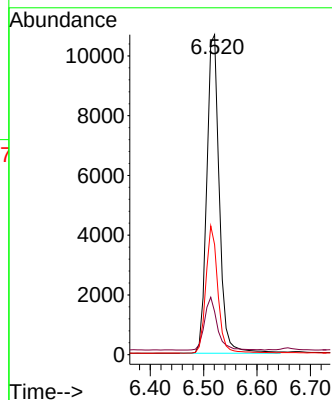
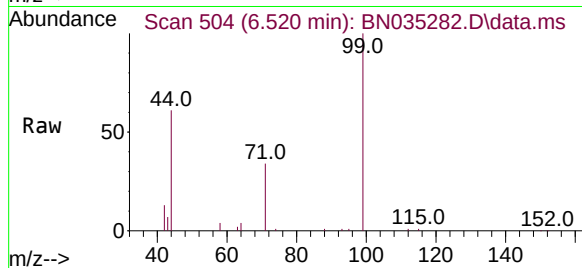




#5  
Phenol-d6  
Concen: 2.420 ng  
RT: 6.520 min Scan# 504  
Delta R.T. -0.000 min  
Lab File: BN035282.D  
Acq: 25 Nov 2024 13:16

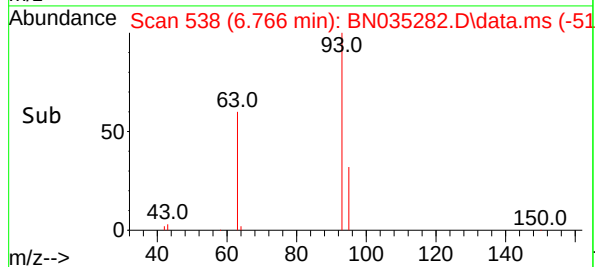
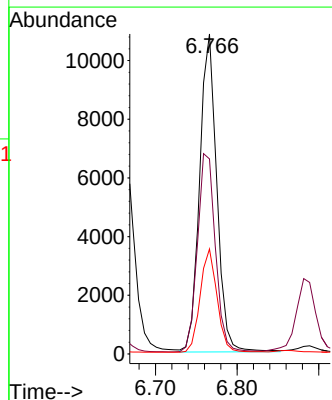
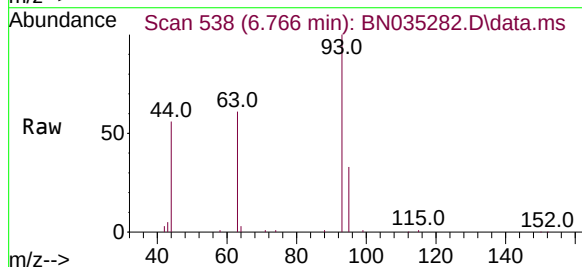
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC3.2

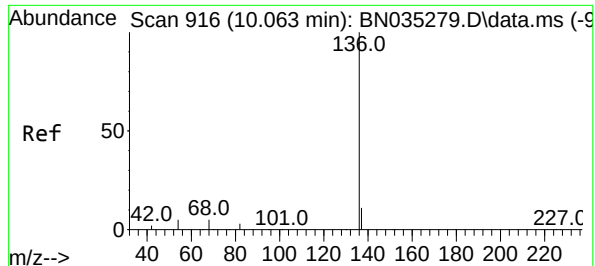
Tgt Ion: 99 Resp: 17485  
Ion Ratio Lower Upper  
99 100  
42 16.7 12.8 19.2  
71 38.2 31.4 47.2



#6  
bis(2-Chloroethyl)ether  
Concen: 2.926 ng  
RT: 6.766 min Scan# 538  
Delta R.T. -0.000 min  
Lab File: BN035282.D  
Acq: 25 Nov 2024 13:16

Tgt Ion: 93 Resp: 15869  
Ion Ratio Lower Upper  
93 100  
63 65.4 52.3 78.5  
95 32.0 25.5 38.3

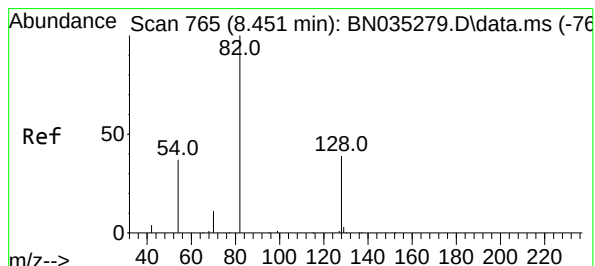
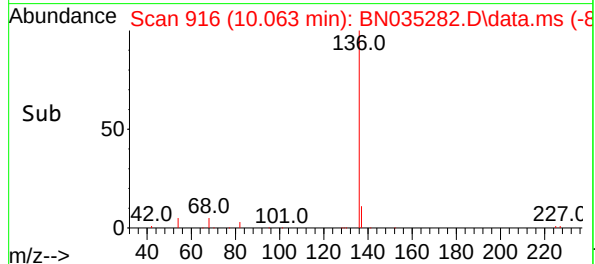
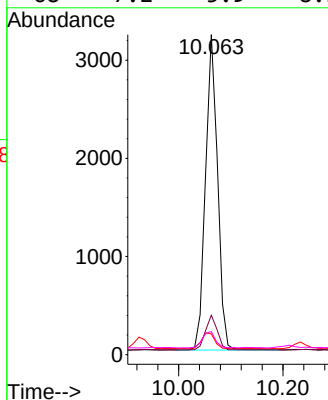
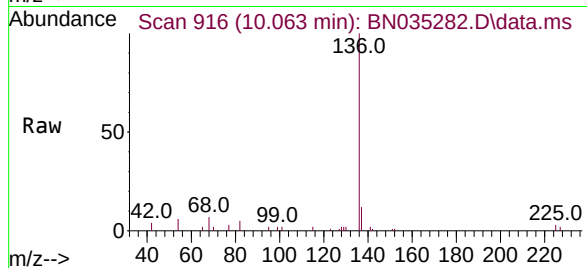




#7  
Naphthalene-d8  
Concen: 0.400 ng  
RT: 10.063 min Scan# 916  
Delta R.T. -0.000 min  
Lab File: BN035282.D  
Acq: 25 Nov 2024 13:16

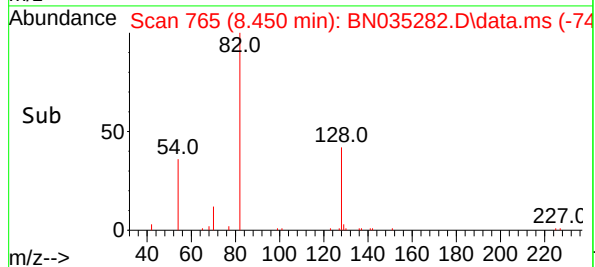
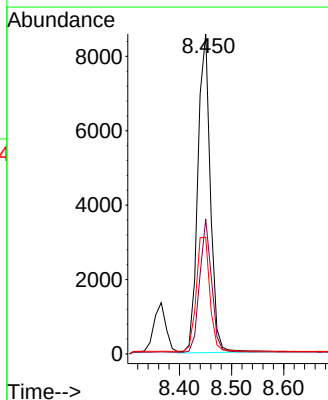
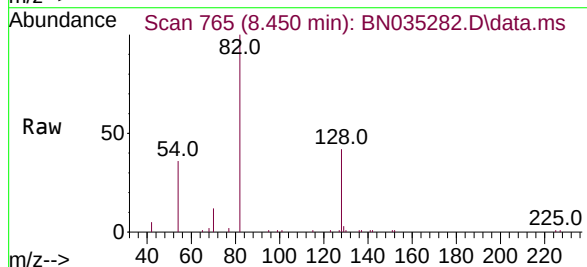
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC3.2

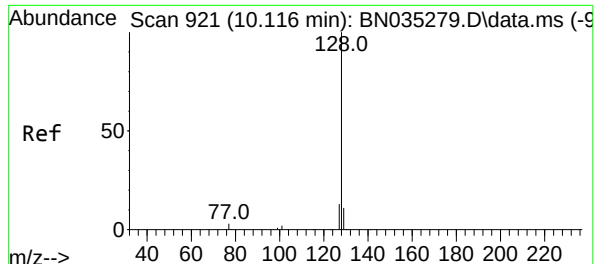
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 136   | Resp: | 5138  |
| Ion      | Ratio | Lower | Upper |
| 136      | 100   |       |       |
| 137      | 12.3  | 9.7   | 14.5  |
| 54       | 6.5   | 5.3   | 7.9   |
| 68       | 7.2   | 5.9   | 8.9   |



#8  
Nitrobenzene-d5  
Concen: 3.199 ng  
RT: 8.450 min Scan# 765  
Delta R.T. -0.000 min  
Lab File: BN035282.D  
Acq: 25 Nov 2024 13:16

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 82    | Resp: | 14309 |
| Ion      | Ratio | Lower | Upper |
| 82       | 100   |       |       |
| 128      | 42.2  | 33.0  | 49.4  |
| 54       | 36.5  | 33.3  | 49.9  |





#9

Naphthalene

Concen: 3.494 ng

RT: 10.116 min Scan# 91

Delta R.T. -0.000 min

Lab File: BN035282.D

Acq: 25 Nov 2024 13:16

Instrument :

BNA\_N

ClientSampleId :

SSTDICC3.2

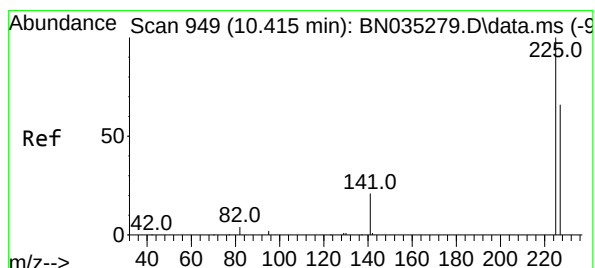
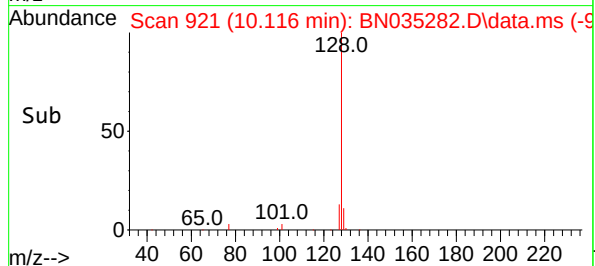
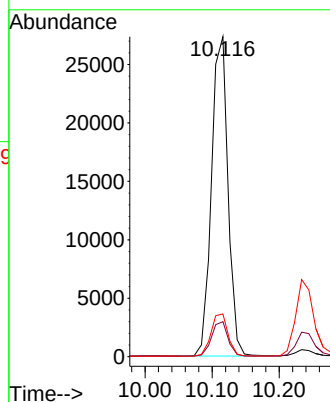
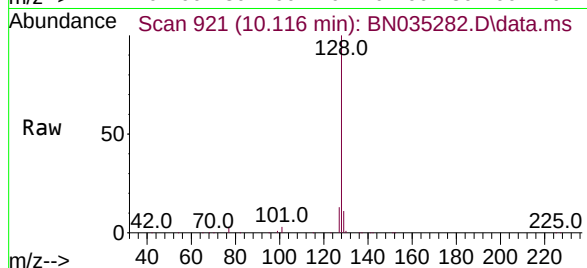
Tgt Ion:128 Resp: 46866

Ion Ratio Lower Upper

128 100

129 10.9 9.6 14.4

127 13.4 11.3 16.9



#10

Hexachlorobutadiene

Concen: 3.452 ng

RT: 10.415 min Scan# 949

Delta R.T. -0.000 min

Lab File: BN035282.D

Acq: 25 Nov 2024 13:16

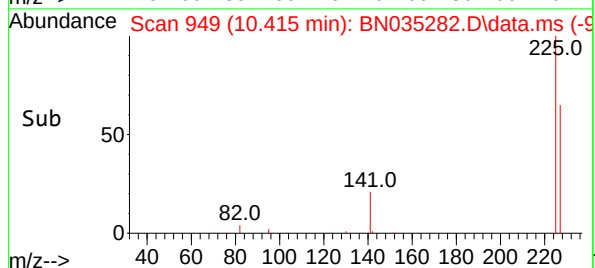
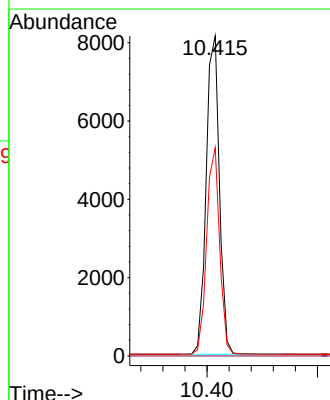
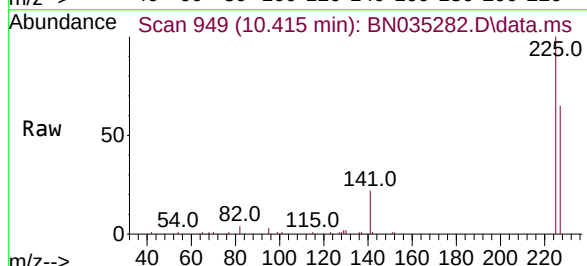
Tgt Ion:225 Resp: 13571

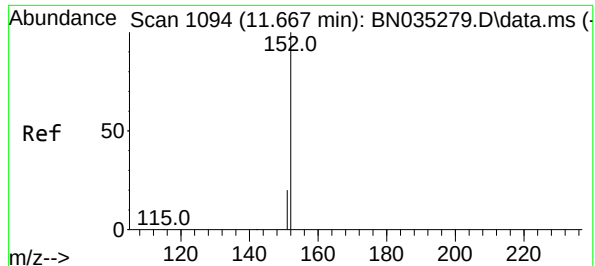
Ion Ratio Lower Upper

225 100

223 0.0 0.0 0.0

227 63.5 51.3 76.9

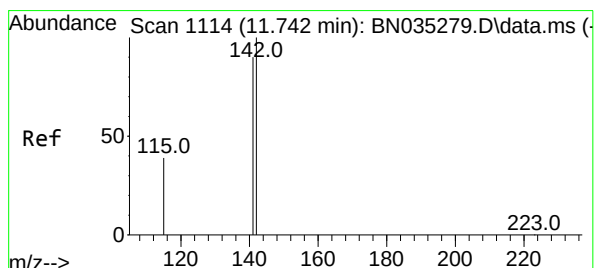
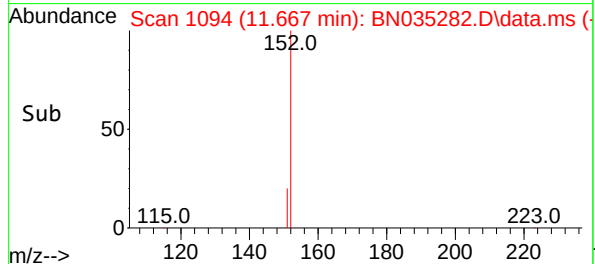
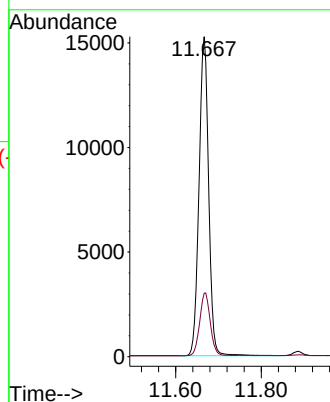
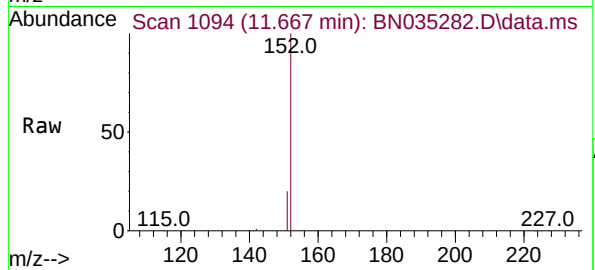




#11  
2-Methylnaphthalene-d10  
Concen: 2.602 ng  
RT: 11.667 min Scan# 1094  
Delta R.T. -0.000 min  
Lab File: BN035282.D  
Acq: 25 Nov 2024 13:16

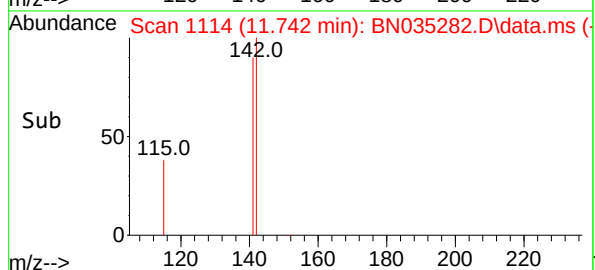
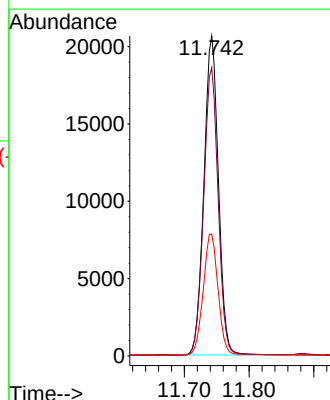
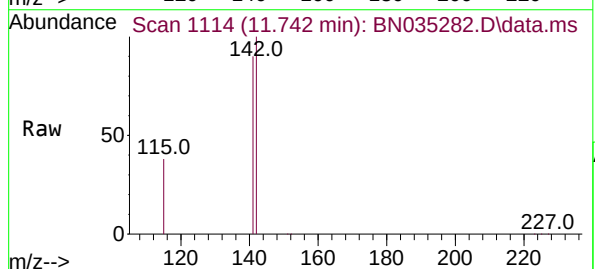
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC3.2

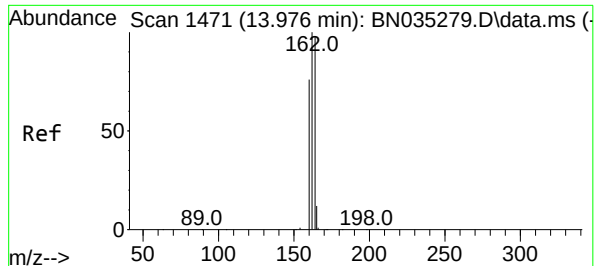
Tgt Ion:152 Resp: 23828  
Ion Ratio Lower Upper  
152 100  
151 21.6 17.2 25.8



#12  
2-Methylnaphthalene  
Concen: 3.249 ng  
RT: 11.742 min Scan# 1114  
Delta R.T. -0.000 min  
Lab File: BN035282.D  
Acq: 25 Nov 2024 13:16

Tgt Ion:142 Resp: 32151  
Ion Ratio Lower Upper  
142 100  
141 90.1 71.8 107.8  
115 38.1 32.6 49.0

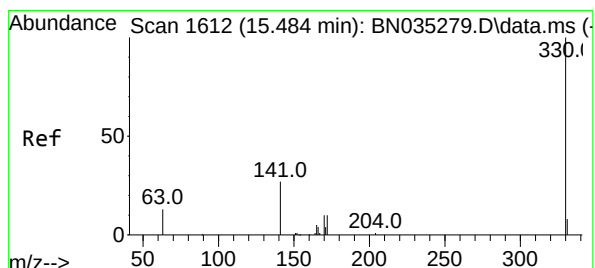
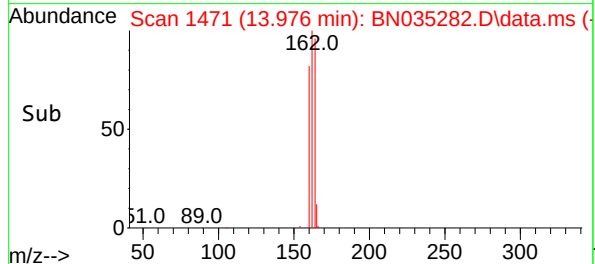
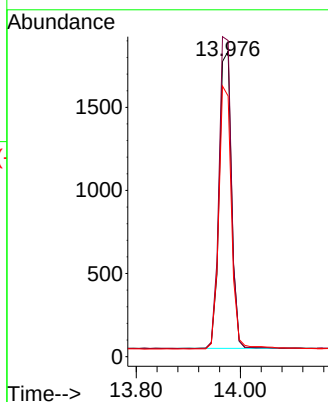
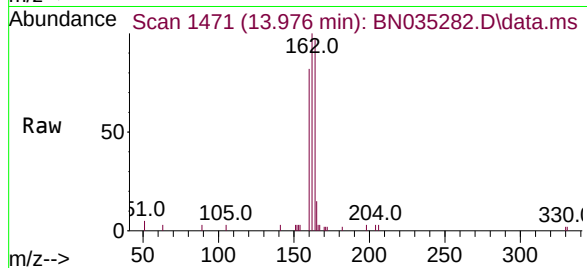




#13  
Acenaphthene-d10  
Concen: 0.400 ng  
RT: 13.976 min Scan# 1471  
Delta R.T. -0.000 min  
Lab File: BN035282.D  
Acq: 25 Nov 2024 13:16

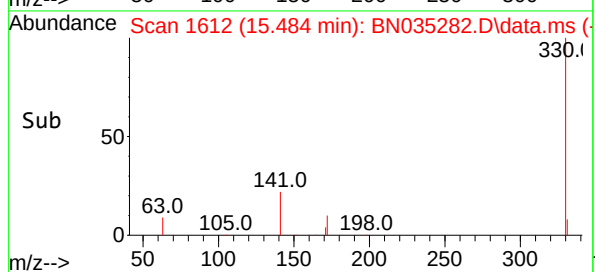
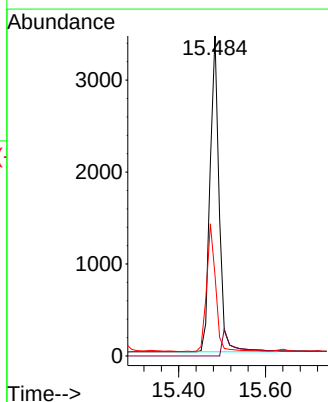
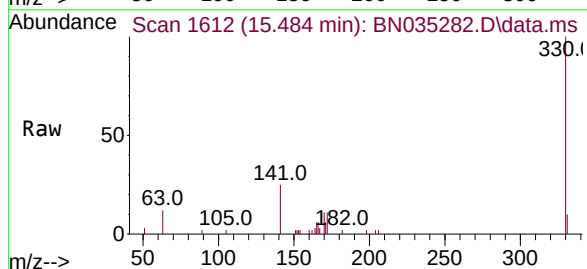
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC3.2

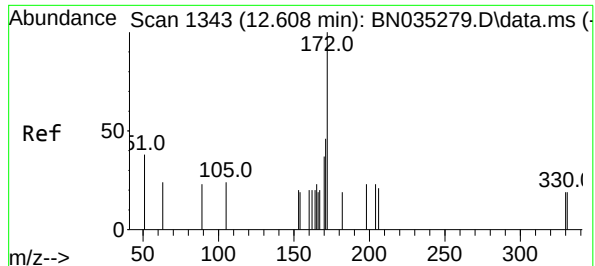
Tgt Ion:164 Resp: 2927  
Ion Ratio Lower Upper  
164 100  
162 103.5 82.0 123.0  
160 85.4 63.0 94.4



#14  
2,4,6-Tribromophenol  
Concen: 2.553 ng  
RT: 15.484 min Scan# 1612  
Delta R.T. -0.000 min  
Lab File: BN035282.D  
Acq: 25 Nov 2024 13:16

Tgt Ion:330 Resp: 5391  
Ion Ratio Lower Upper  
330 100  
332 0.0 0.0 0.0  
141 39.7 32.4 48.6

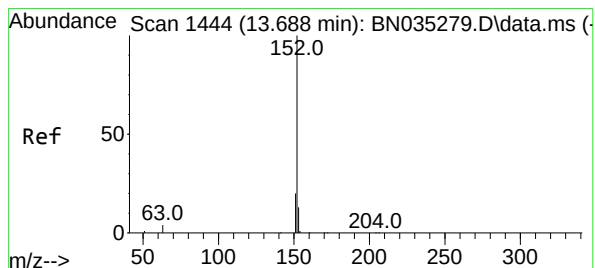
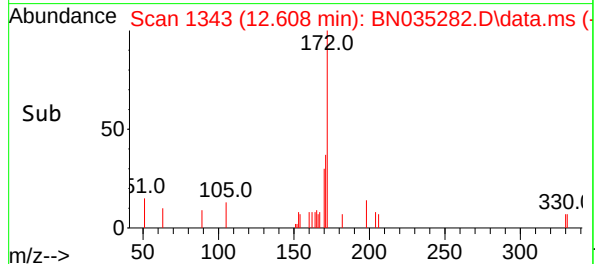
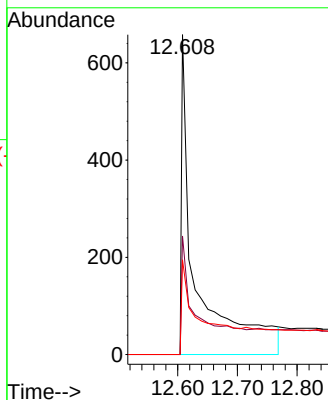
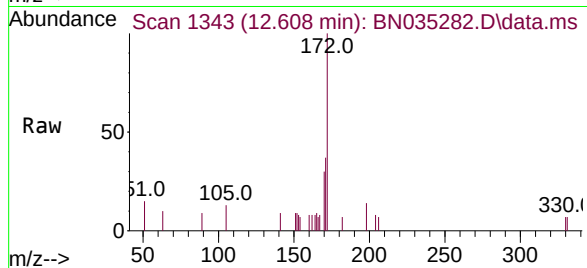




#15  
2-Fluorobiphenyl  
Concen: 0.096 ng  
RT: 12.608 min Scan# 1139  
Delta R.T. -0.000 min  
Lab File: BN035282.D  
Acq: 25 Nov 2024 13:16

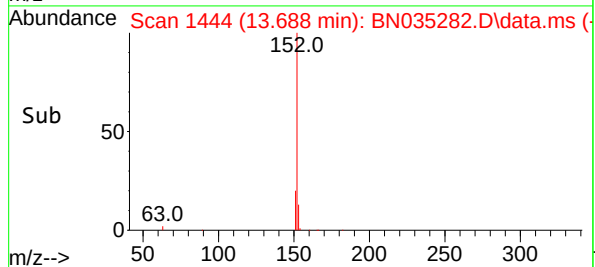
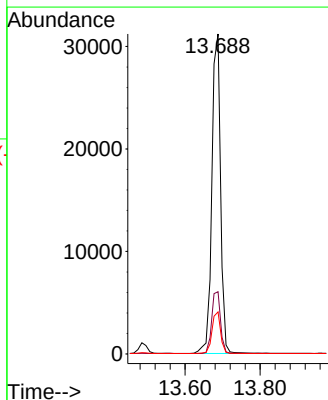
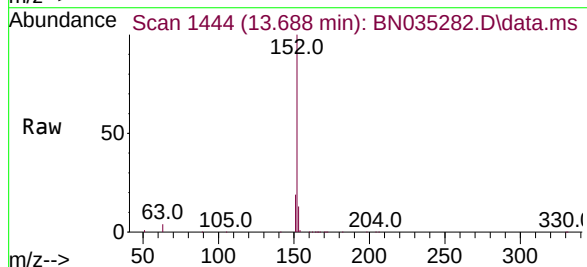
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC3.2

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 172     | 100   |       |       |
| 171     | 37.1  | 36.6  | 55.0  |
| 170     | 29.6  | 29.7  | 44.5  |

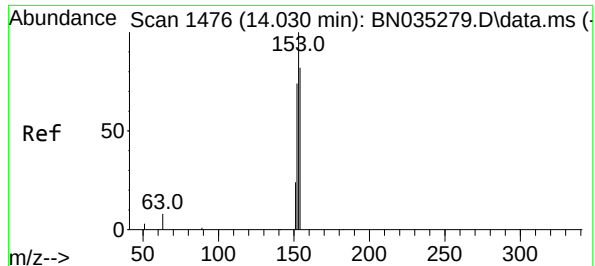


#16  
Acenaphthylene  
Concen: 4.019 ng  
RT: 13.688 min Scan# 1444  
Delta R.T. -0.000 min  
Lab File: BN035282.D  
Acq: 25 Nov 2024 13:16

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 151     | 19.6  | 15.9  | 23.9  |
| 153     | 12.9  | 10.2  | 15.4  |



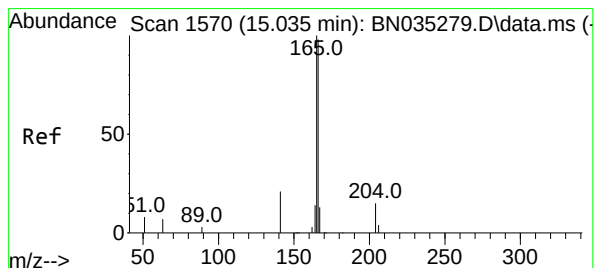
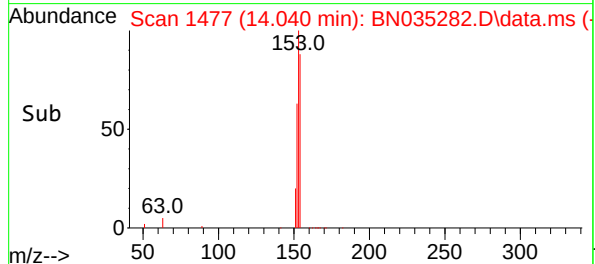
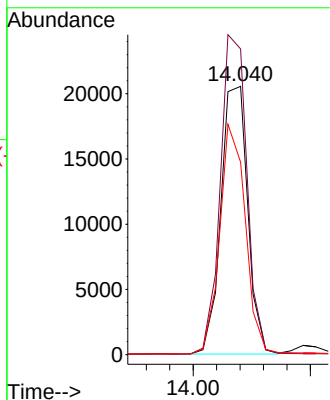
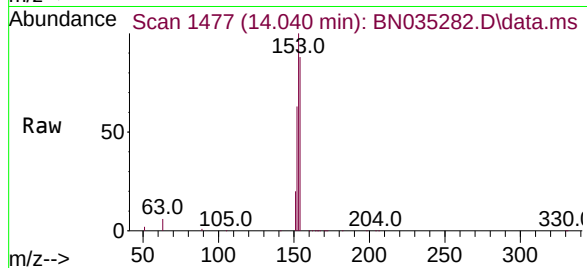




#17  
Acenaphthene  
Concen: 3.960 ng  
RT: 14.040 min Scan# 1476  
Delta R.T. 0.011 min  
Lab File: BN035282.D  
Acq: 25 Nov 2024 13:16

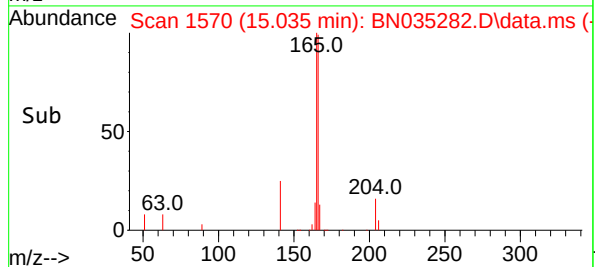
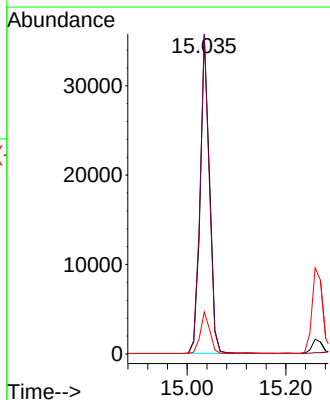
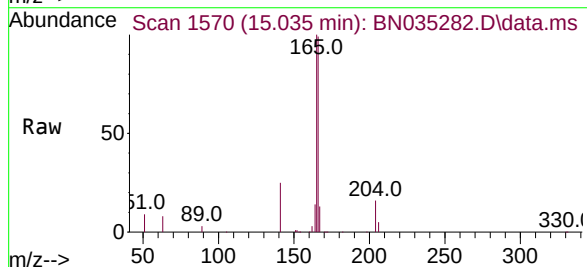
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC3.2

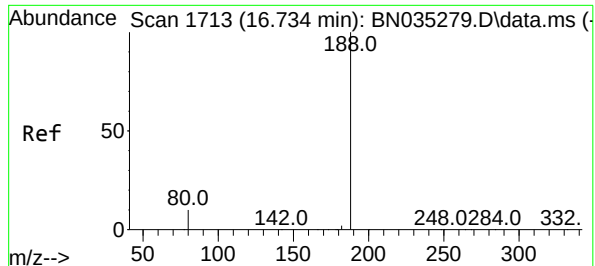
Tgt Ion:154 Resp: 32466  
Ion Ratio Lower Upper  
154 100  
153 118.6 96.1 144.1  
152 82.9 72.2 108.2



#18  
Fluorene  
Concen: 3.855 ng  
RT: 15.035 min Scan# 1570  
Delta R.T. -0.000 min  
Lab File: BN035282.D  
Acq: 25 Nov 2024 13:16

Tgt Ion:166 Resp: 46490  
Ion Ratio Lower Upper  
166 100  
165 100.0 81.2 121.8  
167 13.3 10.5 15.7





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 16.734 min Scan# 1713

Delta R.T. -0.000 min

Lab File: BN035282.D

Acq: 25 Nov 2024 13:16

Instrument :

BNA\_N

ClientSampleId :

SSTDICC3.2

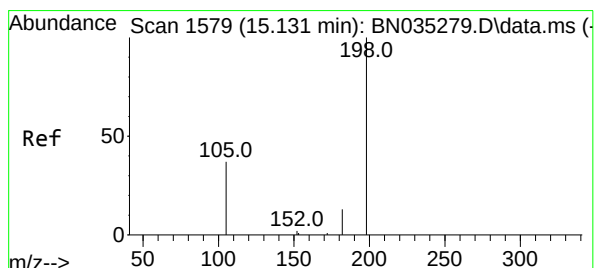
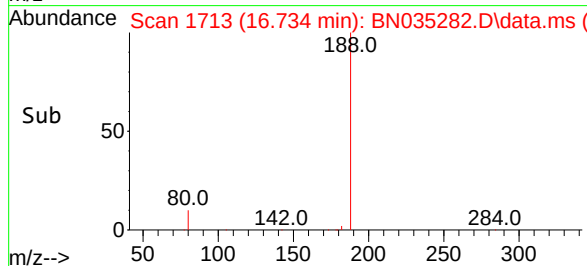
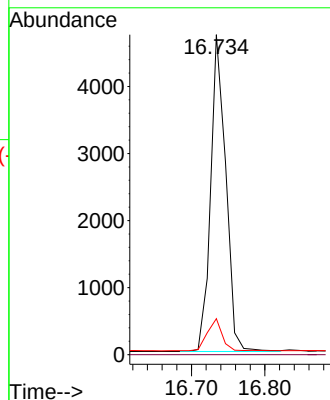
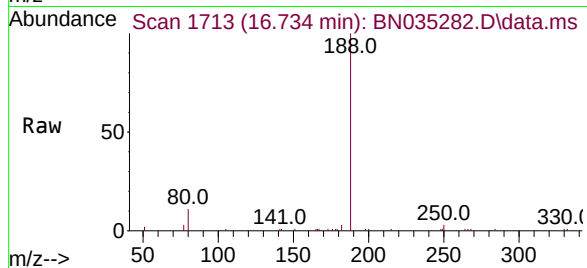
Tgt Ion:188 Resp: 6761

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 11.3 8.9 13.3



#20

4,6-Dinitro-2-methylphenol

Concen: 2.137 ng

RT: 15.131 min Scan# 1579

Delta R.T. -0.000 min

Lab File: BN035282.D

Acq: 25 Nov 2024 13:16

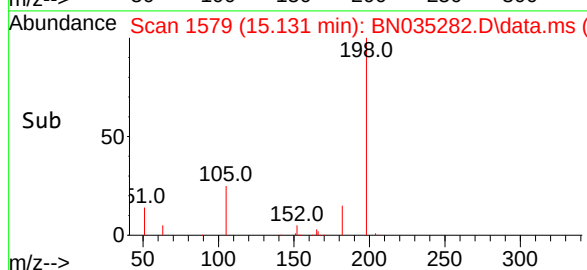
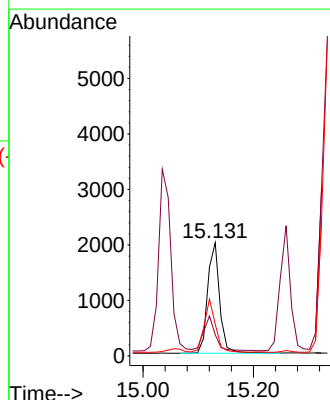
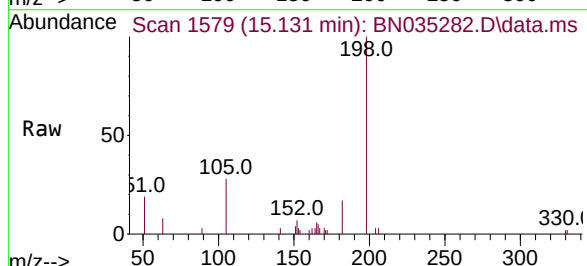
Tgt Ion:198 Resp: 3008

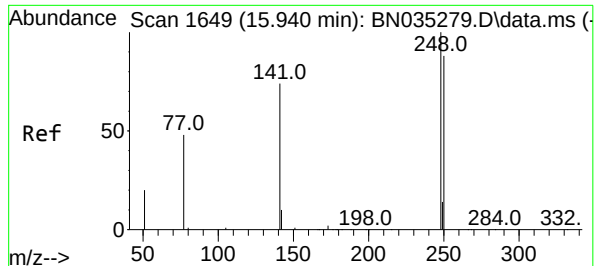
Ion Ratio Lower Upper

198 100

51 18.6 53.6 80.4#

105 28.0 47.4 71.2#

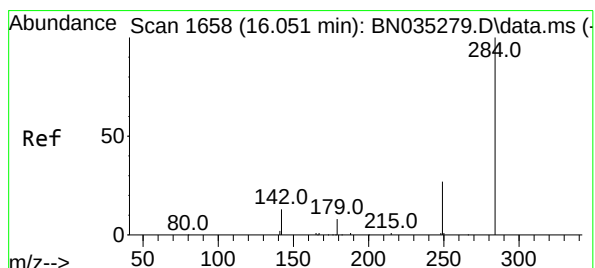
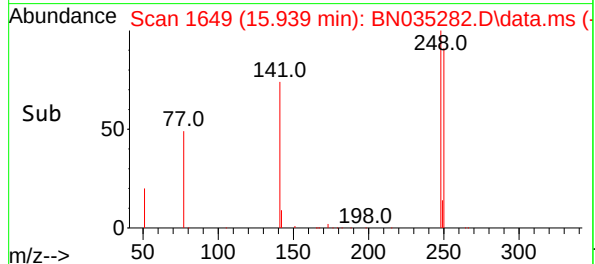
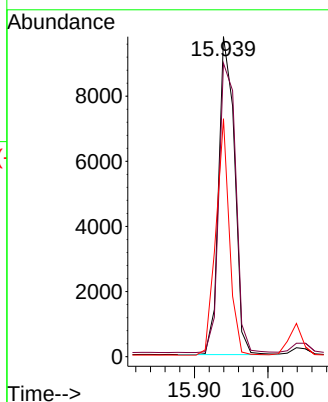
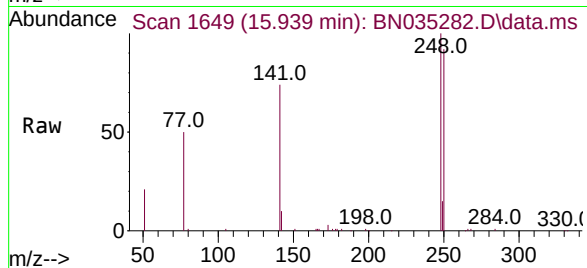




#21  
4-Bromophenyl-phenylether  
Concen: 3.399 ng  
RT: 15.939 min Scan# 1649  
Delta R.T. -0.000 min  
Lab File: BN035282.D  
Acq: 25 Nov 2024 13:16

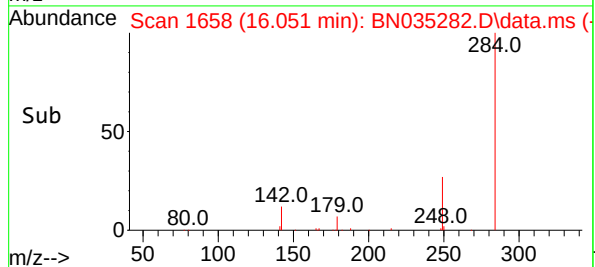
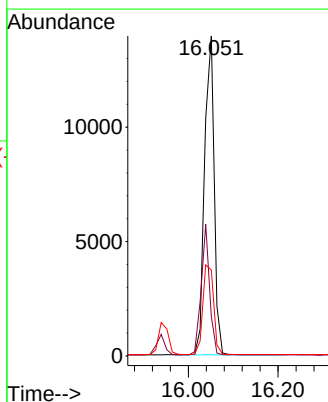
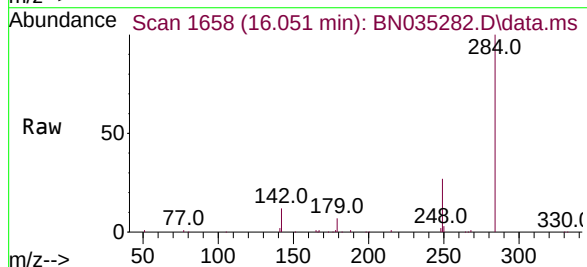
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC3.2

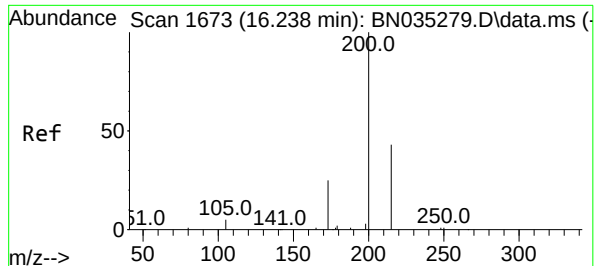
Tgt Ion:248 Resp: 14640  
Ion Ratio Lower Upper  
248 100  
250 91.7 74.8 112.2  
141 74.4 59.0 88.4



#22  
Hexachlorobenzene  
Concen: 4.614 ng  
RT: 16.051 min Scan# 1658  
Delta R.T. -0.000 min  
Lab File: BN035282.D  
Acq: 25 Nov 2024 13:16

Tgt Ion:284 Resp: 20624  
Ion Ratio Lower Upper  
284 100  
142 36.0 28.7 43.1  
249 31.4 25.4 38.0

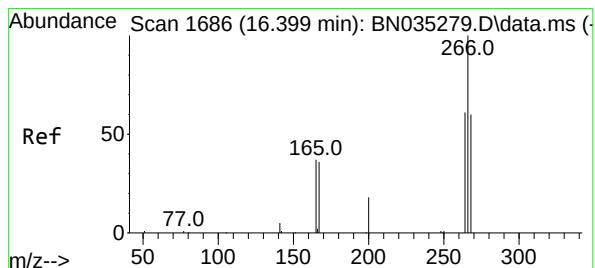
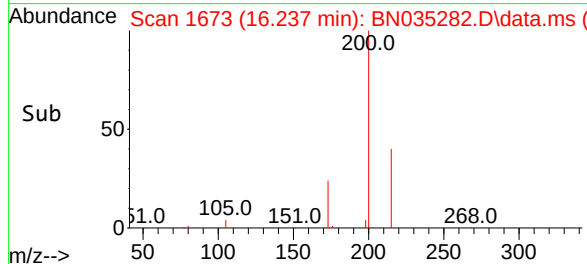
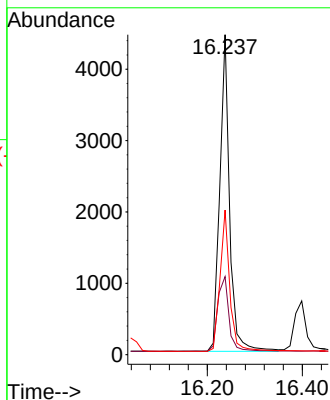
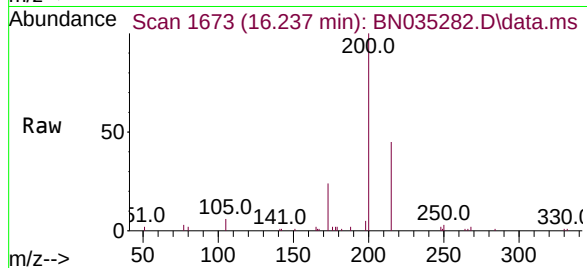




#23  
Atrazine  
Concen: 1.633 ng  
RT: 16.237 min Scan# 1673  
Delta R.T. -0.000 min  
Lab File: BN035282.D  
Acq: 25 Nov 2024 13:16

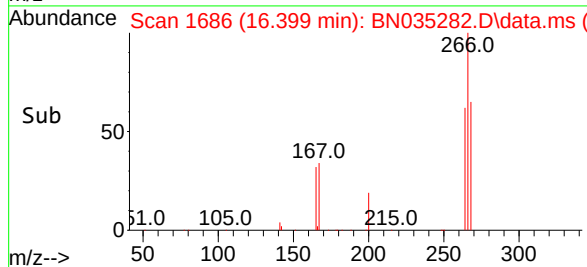
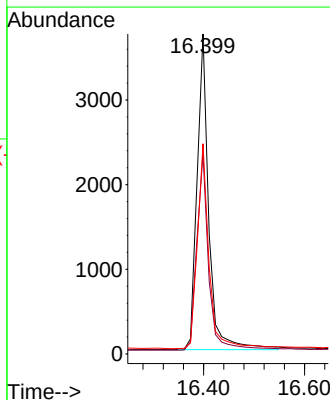
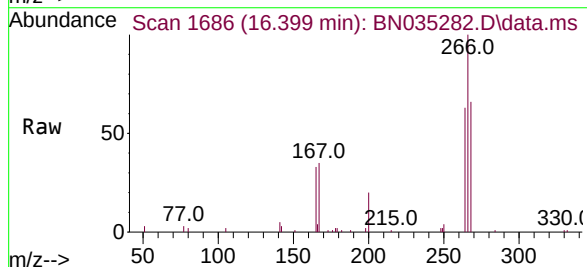
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC3.2

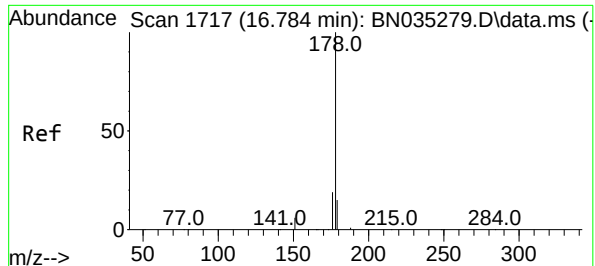
Tgt Ion:200 Resp: 6312  
Ion Ratio Lower Upper  
200 100  
173 24.4 25.8 38.8#  
215 45.2 38.6 58.0



#24  
Pentachlorophenol  
Concen: 2.888 ng  
RT: 16.399 min Scan# 1686  
Delta R.T. -0.000 min  
Lab File: BN035282.D  
Acq: 25 Nov 2024 13:16

Tgt Ion:266 Resp: 6031  
Ion Ratio Lower Upper  
266 100  
264 62.7 49.3 73.9  
268 64.9 48.6 73.0

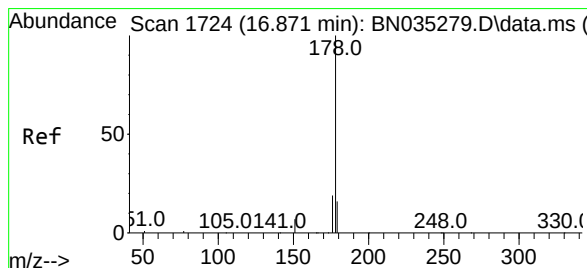
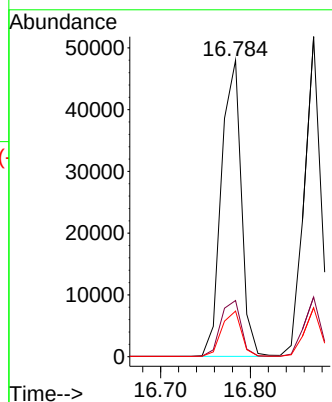
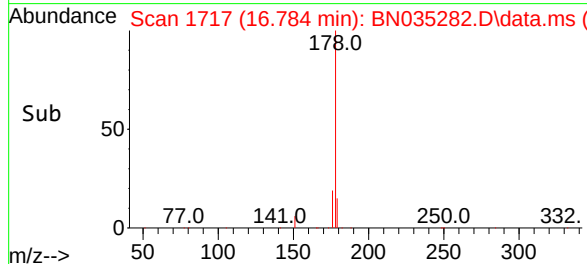
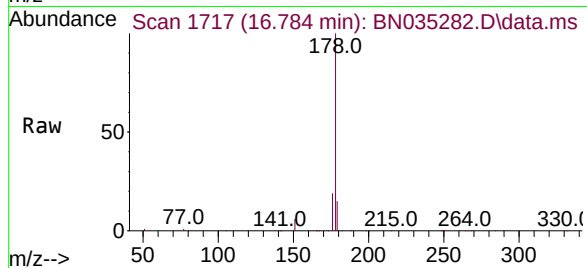




#25  
Phenanthrene  
Concen: 4.148 ng  
RT: 16.784 min Scan# 1717  
Delta R.T. -0.000 min  
Lab File: BN035282.D  
Acq: 25 Nov 2024 13:16

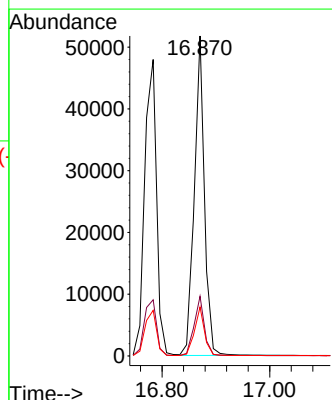
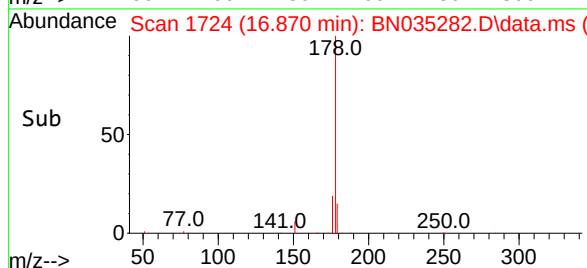
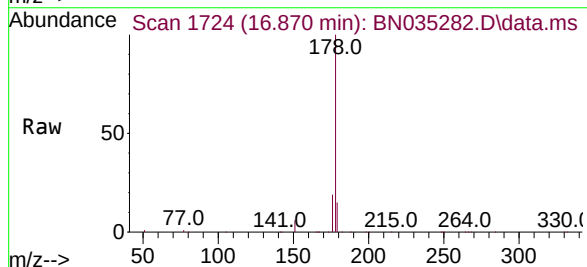
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC3.2

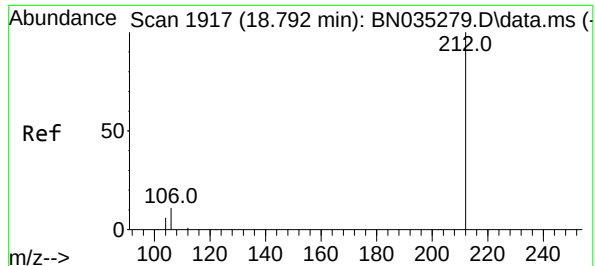
Tgt Ion:178 Resp: 73801  
Ion Ratio Lower Upper  
178 100  
176 19.4 15.4 23.0  
179 15.1 12.6 18.8



#26  
Anthracene  
Concen: 4.143 ng  
RT: 16.870 min Scan# 1724  
Delta R.T. -0.000 min  
Lab File: BN035282.D  
Acq: 25 Nov 2024 13:16

Tgt Ion:178 Resp: 67705  
Ion Ratio Lower Upper  
178 100  
176 18.8 15.0 22.4  
179 15.2 12.4 18.6





#27

Fluoranthene-d10

Concen: 3.195 ng

RT: 18.792 min Scan# 1917

Delta R.T. -0.000 min

Lab File: BN035282.D

Acq: 25 Nov 2024 13:16

Instrument :

BNA\_N

ClientSampleId :

SSTDICC3.2

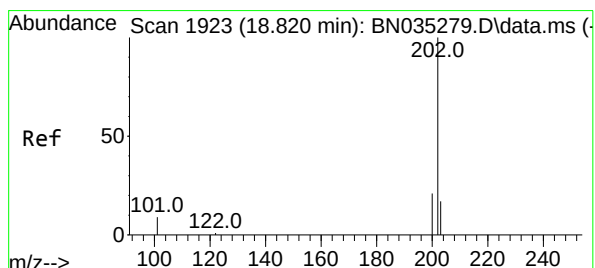
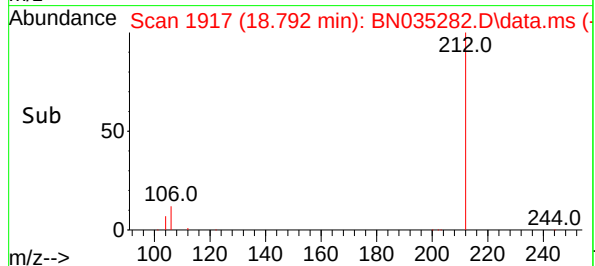
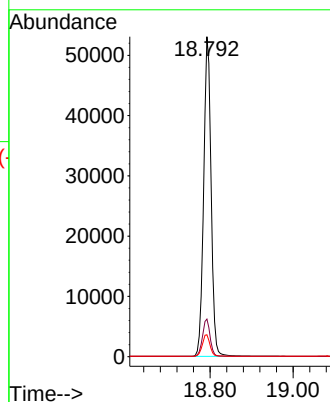
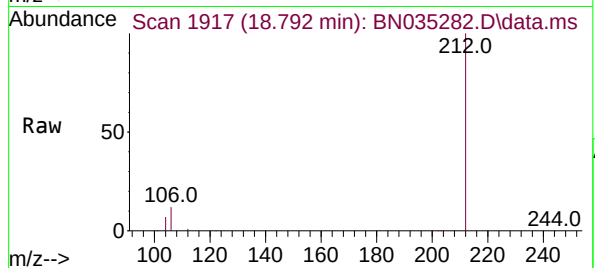
Tgt Ion:212 Resp: 66182

Ion Ratio Lower Upper

212 100

106 11.9 9.8 14.8

104 7.0 5.6 8.4



#28

Fluoranthene

Concen: 4.178 ng

RT: 18.825 min Scan# 1924

Delta R.T. 0.005 min

Lab File: BN035282.D

Acq: 25 Nov 2024 13:16

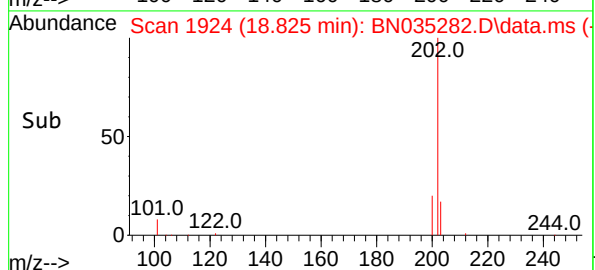
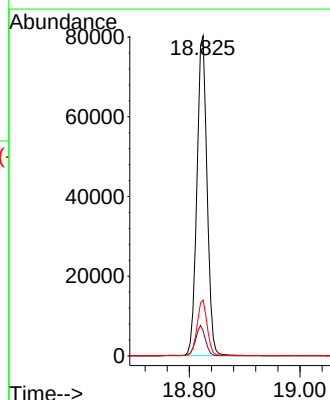
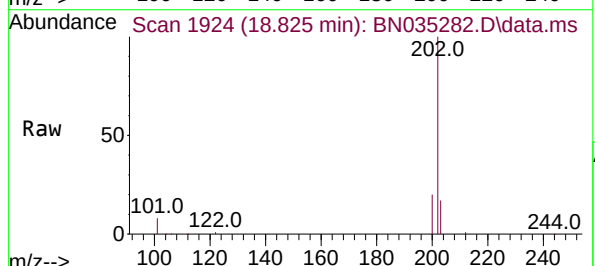
Tgt Ion:202 Resp: 102229

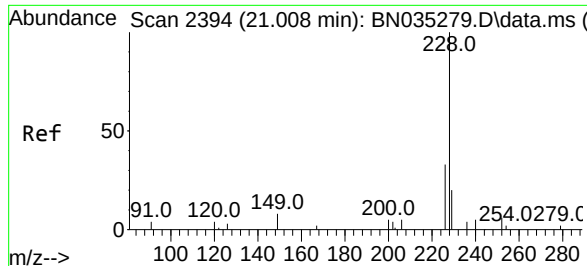
Ion Ratio Lower Upper

202 100

101 9.3 7.6 11.4

203 17.3 13.8 20.8





#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.008 min Scan# 21

Delta R.T. -0.000 min

Lab File: BN035282.D

Acq: 25 Nov 2024 13:16

Instrument :

BNA\_N

ClientSampleId :

SSTDICC3.2

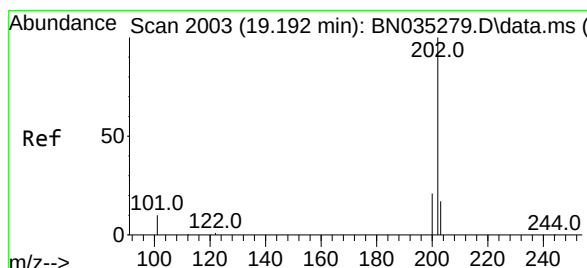
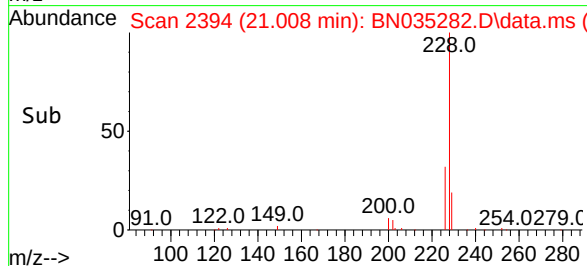
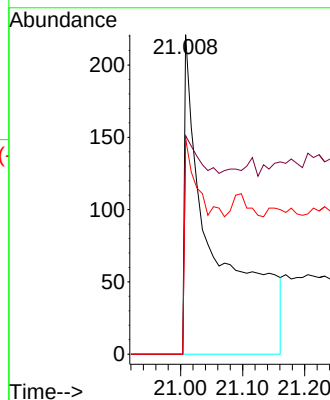
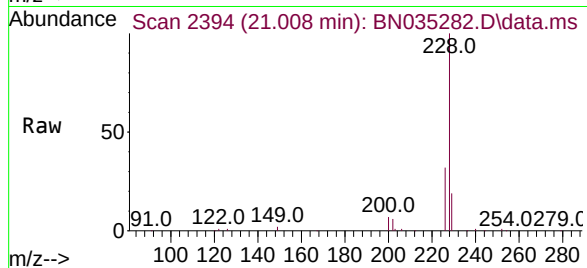
Tgt Ion:240 Resp: 721

Ion Ratio Lower Upper

240 100

120 68.3 54.9 82.3

236 67.4 54.0 81.0



#30

Pyrene

Concen: 38.808 ng

RT: 19.192 min Scan# 2003

Delta R.T. -0.000 min

Lab File: BN035282.D

Acq: 25 Nov 2024 13:16

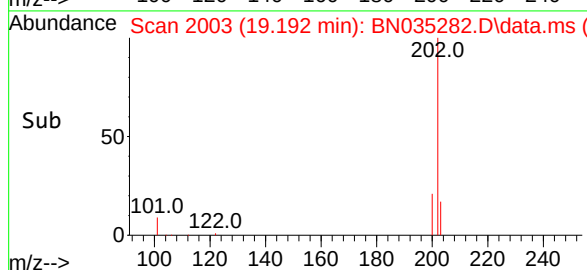
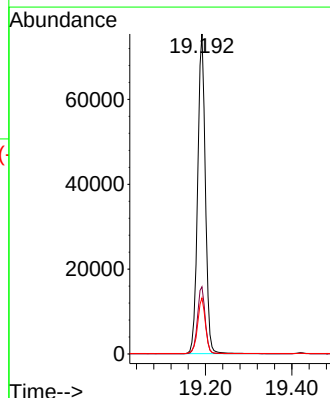
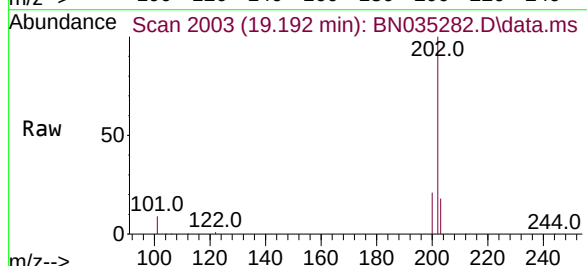
Tgt Ion:202 Resp: 93180

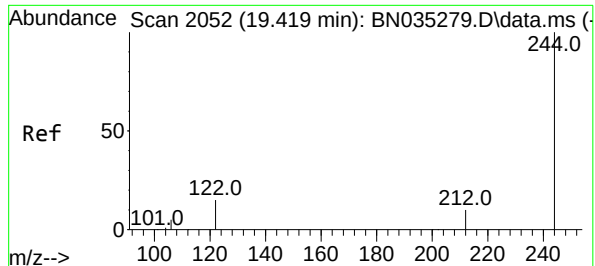
Ion Ratio Lower Upper

202 100

200 21.2 16.8 25.2

203 17.7 14.4 21.6

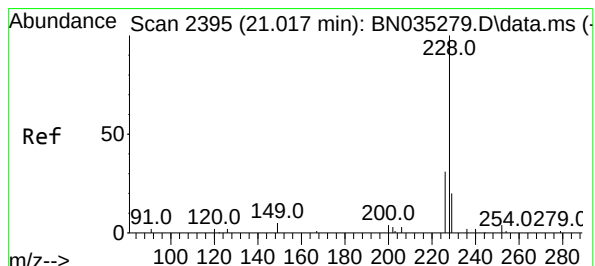
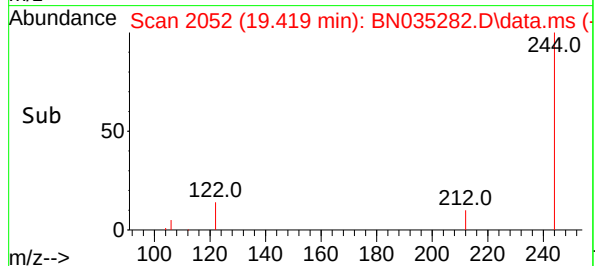
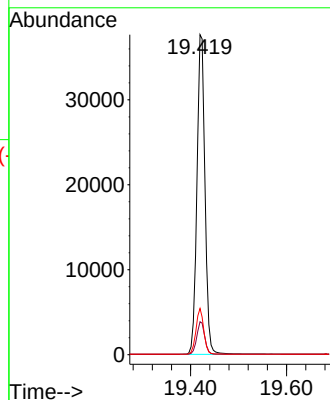
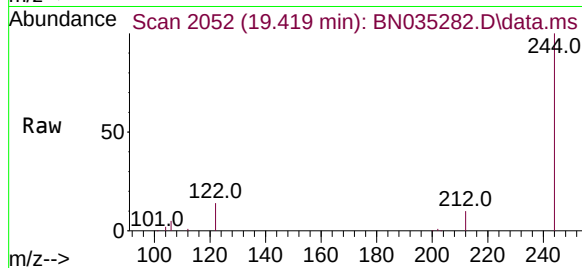




#31  
Terphenyl-d14  
Concen: 29.144 ng  
RT: 19.419 min Scan# 2052  
Delta R.T. -0.000 min  
Lab File: BN035282.D  
Acq: 25 Nov 2024 13:16

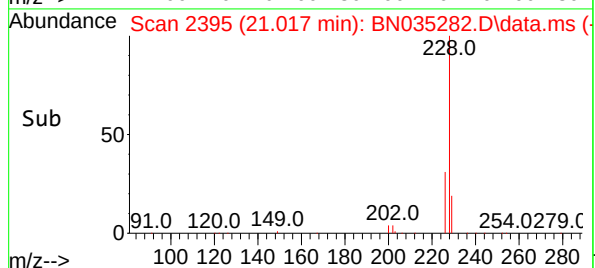
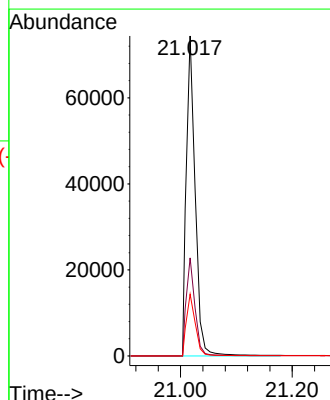
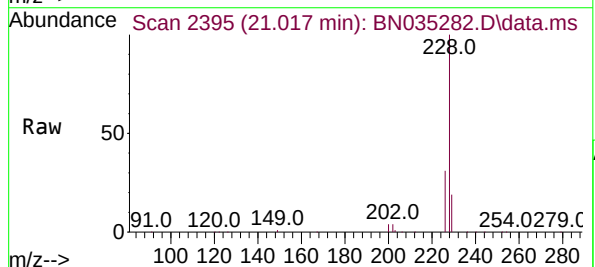
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC3.2

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 244     | 100   |       |       |
| 212     | 10.3  | 9.4   | 14.0  |
| 122     | 14.5  | 13.0  | 19.4  |

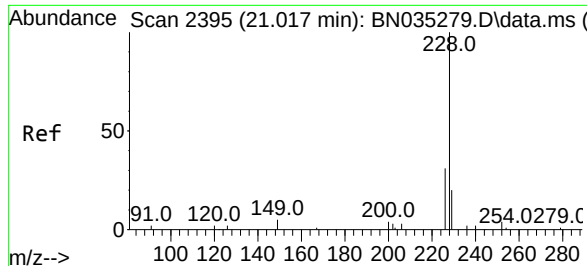


#32  
Benzo(a)anthracene  
Concen: 33.051 ng  
RT: 21.017 min Scan# 2395  
Delta R.T. -0.000 min  
Lab File: BN035282.D  
Acq: 25 Nov 2024 13:16

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 228     | 100   |       |       |
| 226     | 30.7  | 24.7  | 37.1  |
| 229     | 19.3  | 16.2  | 24.2  |







#33

Chrysene

Concen: 33.364 ng

RT: 21.017 min Scan# 21

Delta R.T. -0.000 min

Lab File: BN035282.D

Acq: 25 Nov 2024 13:16

Instrument :

BNA\_N

ClientSampleId :

SSTDICC3.2

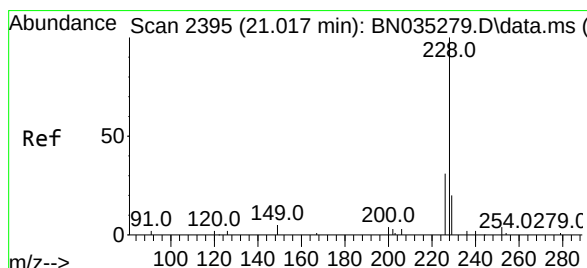
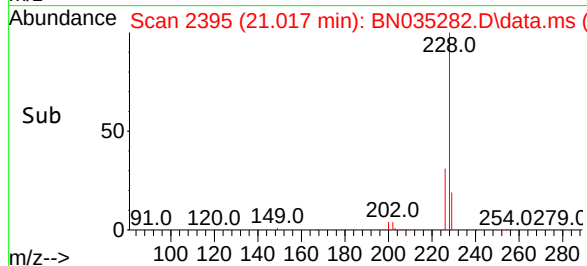
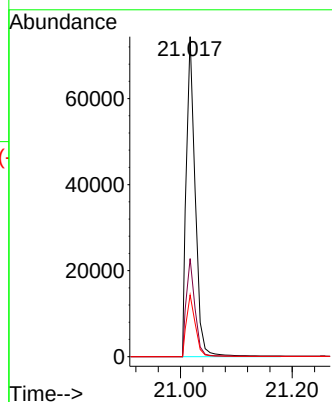
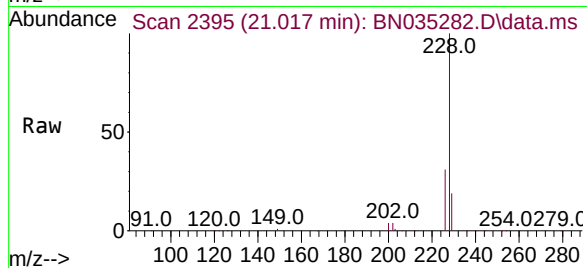
Tgt Ion:228 Resp: 82975

Ion Ratio Lower Upper

228 100

226 30.7 24.7 37.1

229 19.3 16.2 24.2



#34

Bis(2-ethylhexyl)phthalate

Concen: 1.002 ng

RT: 21.017 min Scan# 2395

Delta R.T. -0.000 min

Lab File: BN035282.D

Acq: 25 Nov 2024 13:16

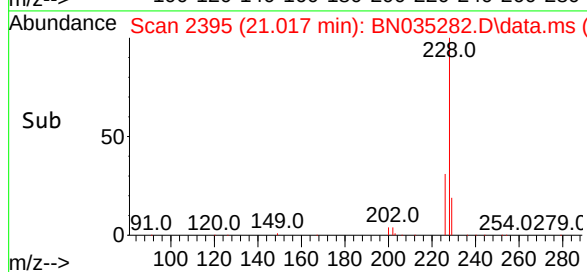
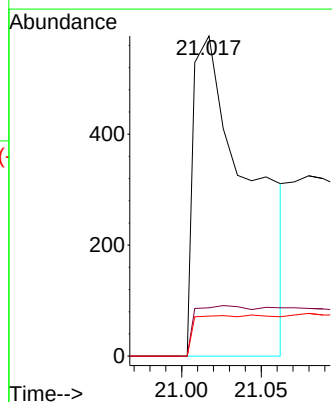
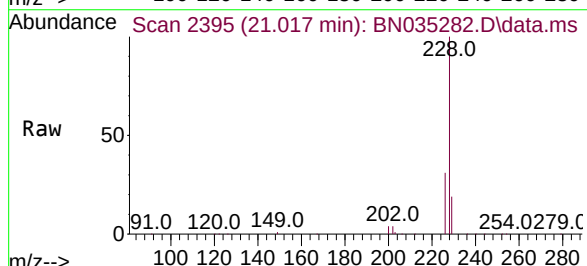
Tgt Ion:149 Resp: 1320

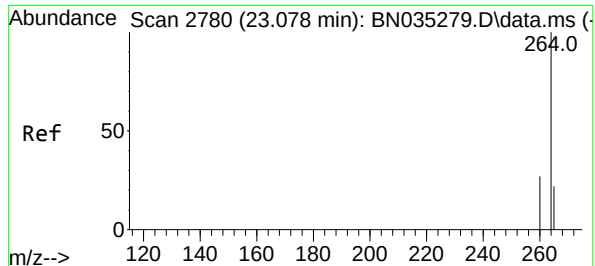
Ion Ratio Lower Upper

149 100

167 14.9 0.0 0.0#

279 9.5 13.0 19.6#

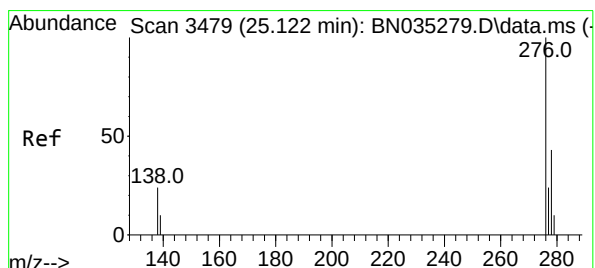
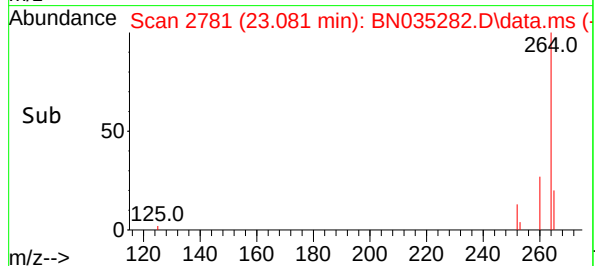
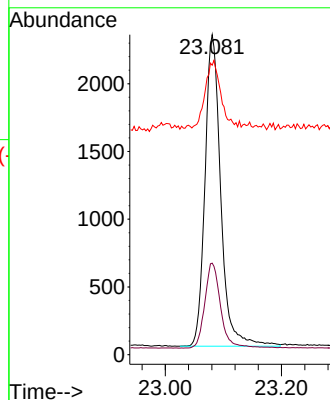
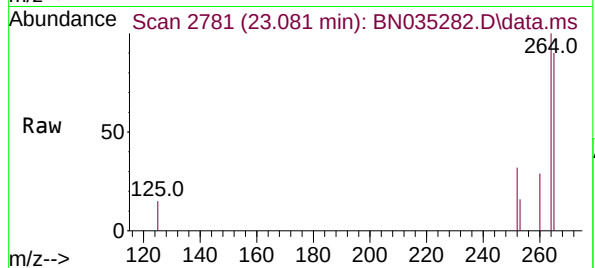




#35  
Perylene-d12  
Concen: 0.400 ng  
RT: 23.081 min Scan# 21  
Delta R.T. 0.003 min  
Lab File: BN035282.D  
Acq: 25 Nov 2024 13:16

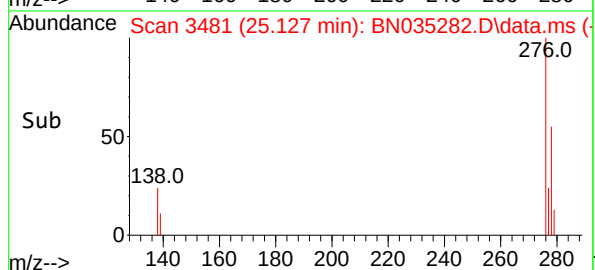
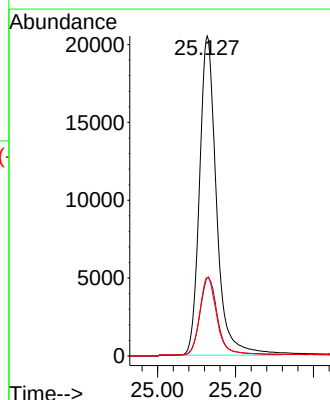
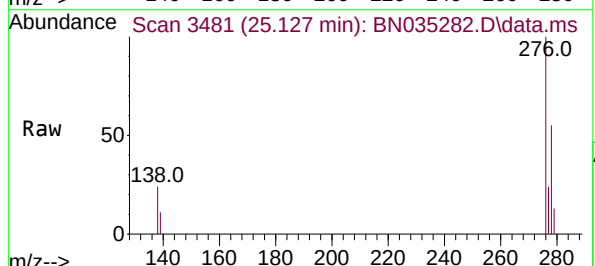
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC3.2

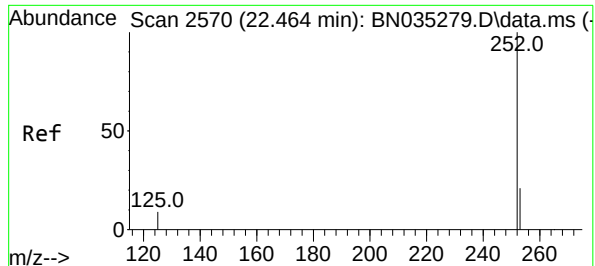
Tgt Ion:264 Resp: 4343  
Ion Ratio Lower Upper  
264 100  
260 28.6 22.3 33.5  
265 90.4 68.6 103.0



#36  
Indeno(1,2,3-cd)pyrene  
Concen: 3.583 ng  
RT: 25.127 min Scan# 3481  
Delta R.T. 0.006 min  
Lab File: BN035282.D  
Acq: 25 Nov 2024 13:16

Tgt Ion:276 Resp: 62075  
Ion Ratio Lower Upper  
276 100  
138 24.8 18.8 28.2  
277 24.5 18.2 27.4





#37

Benzo(b)fluoranthene

Concen: 4.767 ng

RT: 22.467 min Scan# 2570

Delta R.T. 0.003 min

Lab File: BN035282.D

Acq: 25 Nov 2024 13:16

Instrument :

BNA\_N

ClientSampleId :

SSTDICC3.2

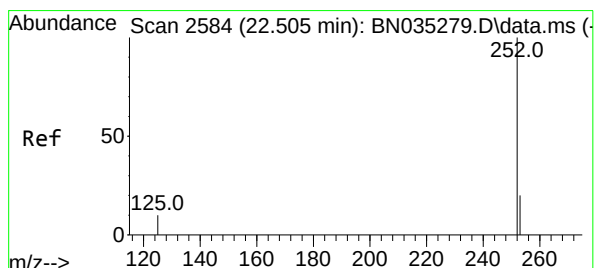
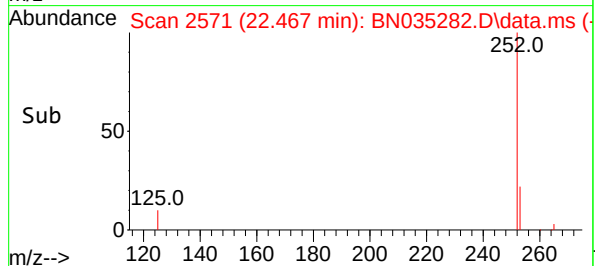
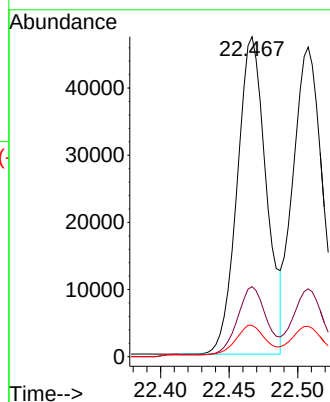
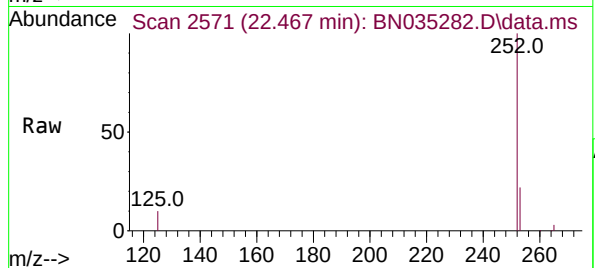
Tgt Ion:252 Resp: 69657

Ion Ratio Lower Upper

252 100

253 21.9 20.2 30.2

125 9.8 12.0 18.0#



#38

Benzo(k)fluoranthene

Concen: 4.941 ng

RT: 22.508 min Scan# 2585

Delta R.T. 0.003 min

Lab File: BN035282.D

Acq: 25 Nov 2024 13:16

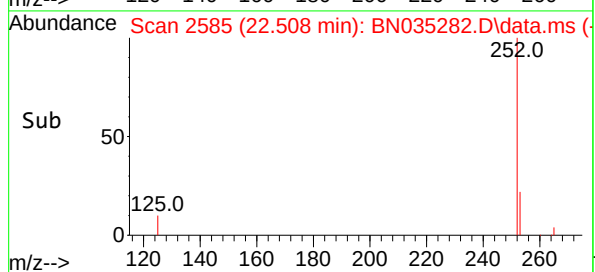
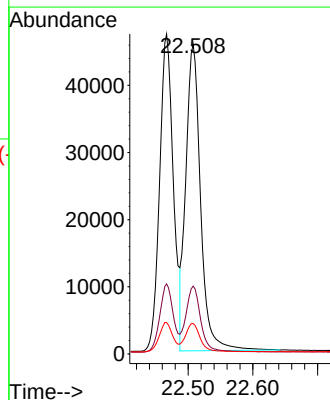
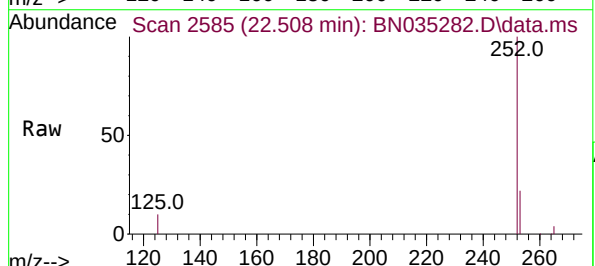
Tgt Ion:252 Resp: 72243

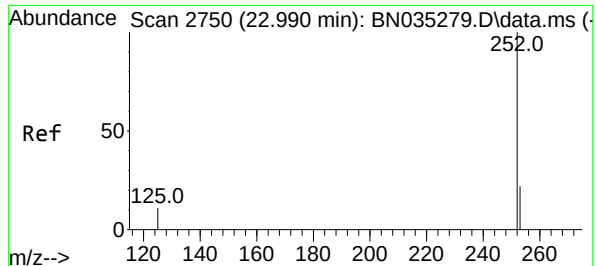
Ion Ratio Lower Upper

252 100

253 21.9 20.1 30.1

125 9.8 12.7 19.1#





#39

Benzo(a)pyrene

Concen: 3.987 ng

RT: 22.990 min Scan# 21

Delta R.T. -0.000 min

Lab File: BN035282.D

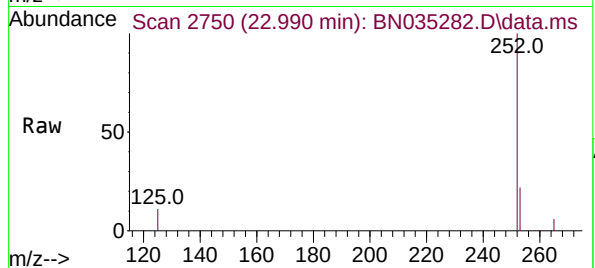
Acq: 25 Nov 2024 13:16

Instrument :

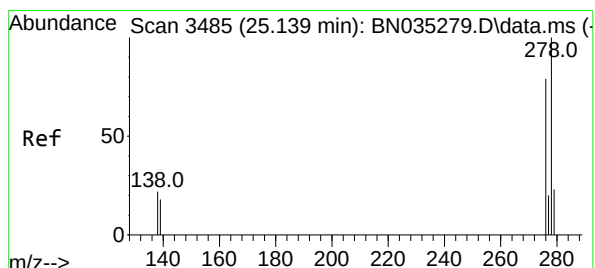
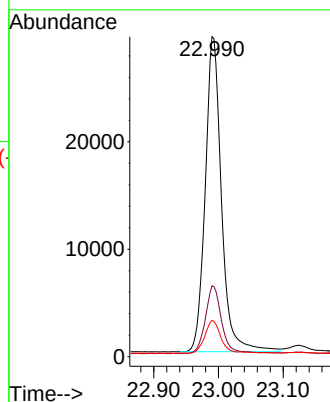
BNA\_N

ClientSampleId :

SSTDICC3.2



|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 252   | Resp: | 51266 |
| Ion Ratio | Lower | Upper |       |
| 252       | 100   |       |       |
| 253       | 22.1  | 22.3  | 33.5# |
| 125       | 11.3  | 15.3  | 22.9# |



#40

Dibenzo(a,h)anthracene

Concen: 3.547 ng

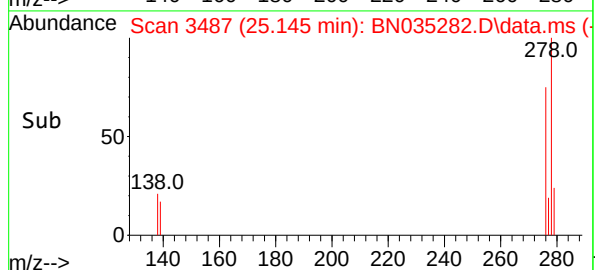
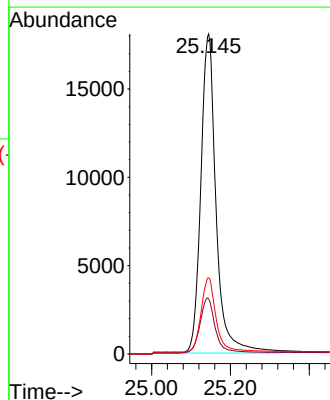
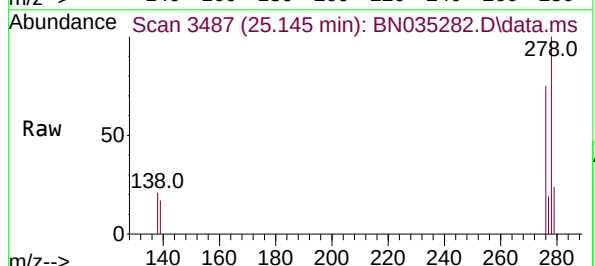
RT: 25.145 min Scan# 3487

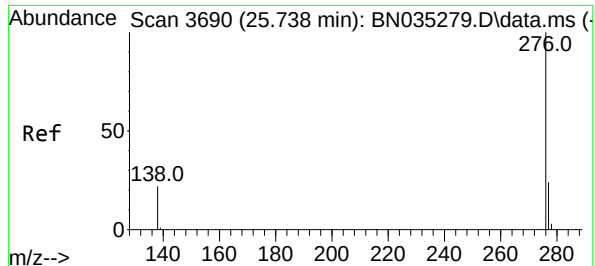
Delta R.T. 0.006 min

Lab File: BN035282.D

Acq: 25 Nov 2024 13:16

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 278   | Resp: | 48696 |
| Ion Ratio | Lower | Upper |       |
| 278       | 100   |       |       |
| 139       | 17.2  | 17.0  | 25.6  |
| 279       | 23.8  | 23.0  | 34.4  |





#41

Benzo(g,h,i)perylene

Concen: 3.610 ng

RT: 25.744 min Scan# 30

Delta R.T. 0.006 min

Lab File: BN035282.D

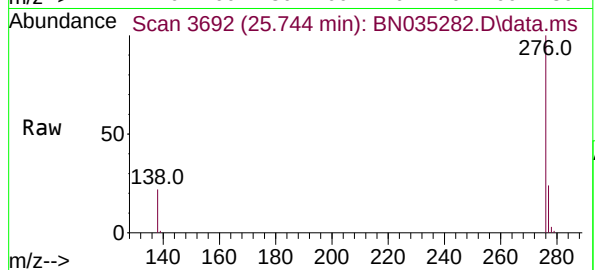
Acq: 25 Nov 2024 13:16

Instrument :

BNA\_N

ClientSampleId :

SSTDICC3.2



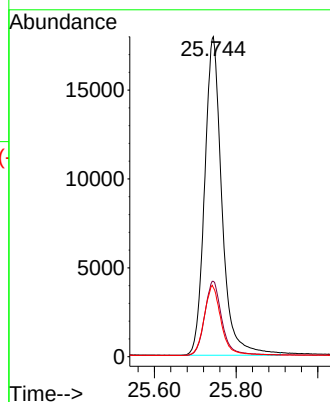
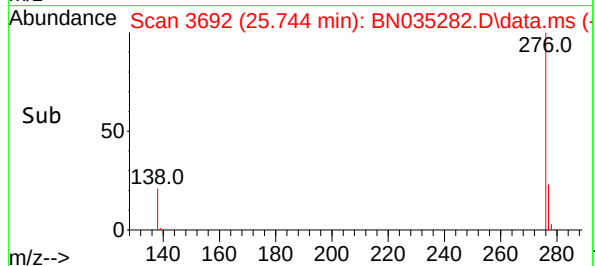
Tgt Ion:276 Resp: 52706

Ion Ratio Lower Upper

276 100

277 23.6 21.1 31.7

138 21.6 19.8 29.8



Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN112524\  
 Data File : BN035283.D  
 Acq On : 25 Nov 2024 13:52  
 Operator : RC/JU  
 Sample : SSTDICC5.0  
 Misc :  
 ALS Vial : 58 Sample Multiplier: 1

Instrument :  
 BNA\_N  
 ClientSampleId :  
 SSTDICC5.0

Quant Time: Nov 25 14:21:51 2024  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\8270-SIM-BN112524.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Mon Nov 25 14:16:35 2024  
 Response via : Initial Calibration

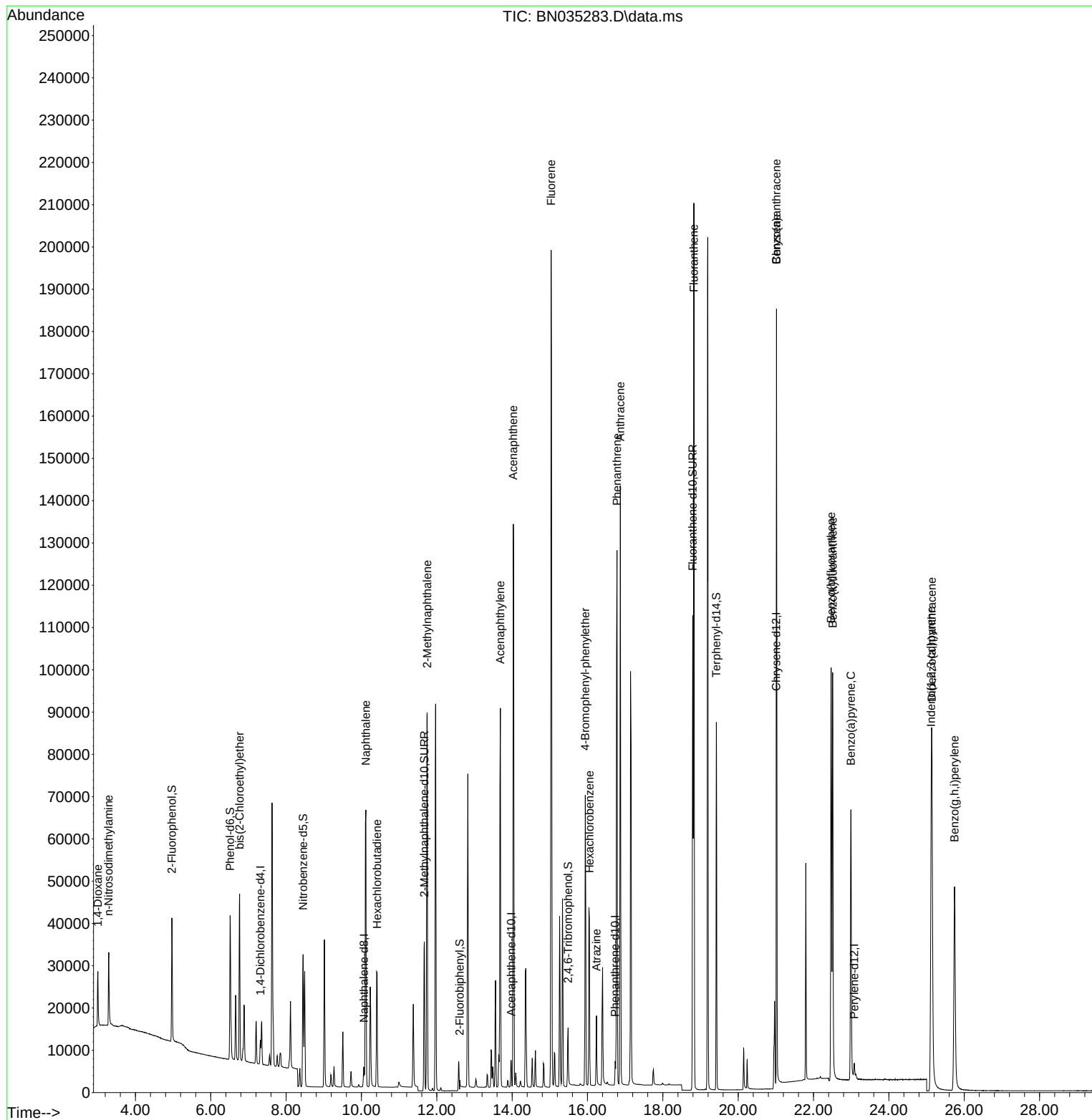
| Compound                      | R.T.   | QIon | Response | Conc   | Units | Dev(Min) |
|-------------------------------|--------|------|----------|--------|-------|----------|
| -----                         |        |      |          |        |       |          |
| Internal Standards            |        |      |          |        |       |          |
| 1) 1,4-Dichlorobenzene-d4     | 7.315  | 152  | 2617     | 0.400  | ng    | 0.00     |
| 7) Naphthalene-d8             | 10.063 | 136  | 5861     | 0.400  | ng    | 0.00     |
| 13) Acenaphthene-d10          | 13.976 | 164  | 3371     | 0.400  | ng    | 0.00     |
| 19) Phenanthrene-d10          | 16.734 | 188  | 7456     | 0.400  | ng    | 0.00     |
| 29) Chrysene-d12              | 21.008 | 240  | 600      | 0.400  | ng    | 0.00     |
| 35) Perylene-d12              | 23.081 | 264  | 4243     | 0.400  | ng    | 0.00     |
|                               |        |      |          |        |       |          |
| System Monitoring Compounds   |        |      |          |        |       |          |
| 4) 2-Fluorophenol             | 4.968  | 112  | 23473    | 3.533  | ng    | 0.00     |
| 5) Phenol-d6                  | 6.513  | 99   | 31227    | 3.749  | ng    | 0.00     |
| 8) Nitrobenzene-d5            | 8.450  | 82   | 25967    | 5.090  | ng    | 0.00     |
| 11) 2-Methylnaphthalene-d10   | 11.667 | 152  | 45135    | 4.321  | ng    | 0.00     |
| 14) 2,4,6-Tribromophenol      | 15.484 | 330  | 11465    | 4.715  | ng    | 0.00     |
| 15) 2-Fluorobiphenyl          | 12.608 | 172  | 1400     | 0.102  | ng    | 0.00     |
| 27) Fluoranthene-d10          | 18.792 | 212  | 118272   | 5.178  | ng    | 0.00     |
| 31) Terphenyl-d14             | 19.419 | 244  | 77655    | 61.679 | ng    | 0.00     |
|                               |        |      |          |        |       |          |
| Target Compounds              |        |      |          |        |       | Qvalue   |
| 2) 1,4-Dioxane                | 3.003  | 88   | 8723     | 3.670  | ng    | # 76     |
| 3) n-Nitrosodimethylamine     | 3.285  | 42   | 10016    | 4.521  | ng    | # 85     |
| 6) bis(2-Chloroethyl)ether    | 6.766  | 93   | 28430    | 4.547  | ng    | 100      |
| 9) Naphthalene                | 10.116 | 128  | 86023    | 5.622  | ng    | 98       |
| 10) Hexachlorobutadiene       | 10.415 | 225  | 23614    | 5.265  | ng    | # 100    |
| 12) 2-Methylnaphthalene       | 11.742 | 142  | 60715    | 5.378  | ng    | 98       |
| 16) Acenaphthylene            | 13.688 | 152  | 96646    | 6.708  | ng    | 100      |
| 17) Acenaphthene              | 14.030 | 154  | 62066    | 6.574  | ng    | 92       |
| 18) Fluorene                  | 15.035 | 166  | 87161    | 6.276  | ng    | 99       |
| 21) 4-Bromophenyl-phenylether | 15.939 | 248  | 27951    | 5.884  | ng    | 91       |
| 22) Hexachlorobenzene         | 16.051 | 284  | 36728    | 7.450  | ng    | 99       |
| 23) Atrazine                  | 16.237 | 200  | 12358    | 2.900  | ng    | # 92     |
| 25) Phenanthrene              | 16.784 | 178  | 134973   | 6.879  | ng    | 99       |
| 26) Anthracene                | 16.870 | 178  | 127410   | 7.069  | ng    | 100      |
| 28) Fluoranthene              | 18.825 | 202  | 177741   | 6.587  | ng    | 100      |
| 32) Benzo(a)anthracene        | 21.017 | 228  | 128544   | 61.527 | ng    | 99       |
| 33) Chrysene                  | 21.017 | 228  | 128544   | 62.111 | ng    | 99       |
| 36) Indeno(1,2,3-cd)pyrene    | 25.124 | 276  | 108670   | 6.420  | ng    | 96       |
| 37) Benzo(b)fluoranthene      | 22.467 | 252  | 109463   | 7.668  | ng    | # 91     |
| 38) Benzo(k)fluoranthene      | 22.508 | 252  | 114816   | 8.038  | ng    | # 90     |
| 39) Benzo(a)pyrene            | 22.993 | 252  | 84108    | 6.696  | ng    | # 86     |
| 40) Dibenzo(a,h)anthracene    | 25.142 | 278  | 85497    | 6.375  | ng    | 91       |
| 41) Benzo(g,h,i)perylene      | 25.741 | 276  | 92138    | 6.459  | ng    | 95       |
| -----                         |        |      |          |        |       |          |

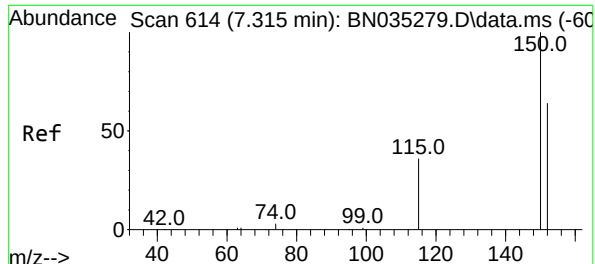
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN112524\  
Data File : BN035283.D  
Acq On : 25 Nov 2024 13:52  
Operator : RC/JU  
Sample : SSTDICC5.0  
Misc :  
ALS Vial : 58 Sample Multiplier: 1

Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC5.0

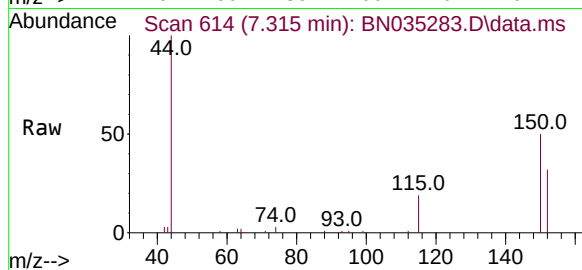
Quant Time: Nov 25 14:21:51 2024  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\8270-SIM-BN112524.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Mon Nov 25 14:16:35 2024  
Response via : Initial Calibration



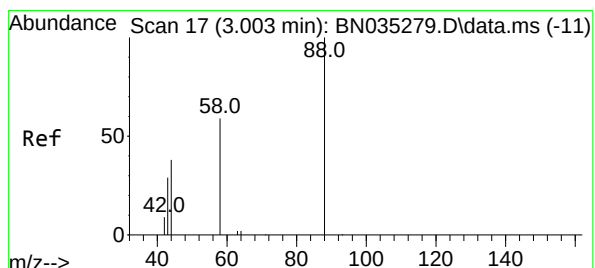
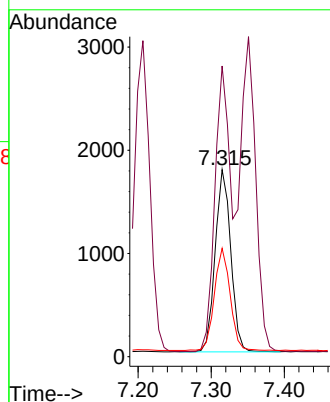
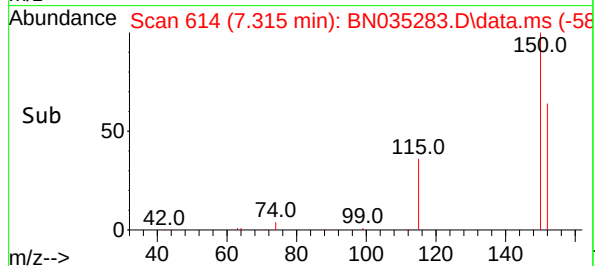


#1  
1,4-Dichlorobenzene-d4  
Concen: 0.400 ng  
RT: 7.315 min Scan# 61  
Delta R.T. -0.000 min  
Lab File: BN035283.D  
Acq: 25 Nov 2024 13:52

Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC5.0

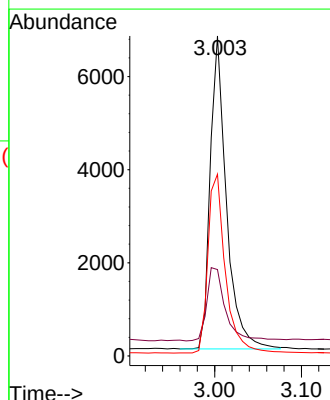
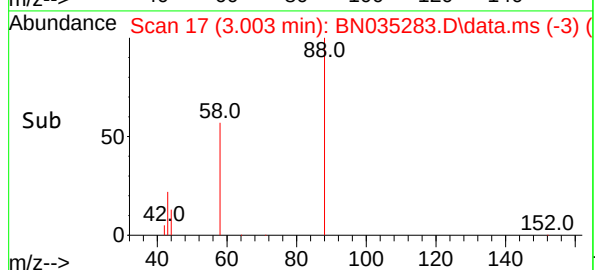
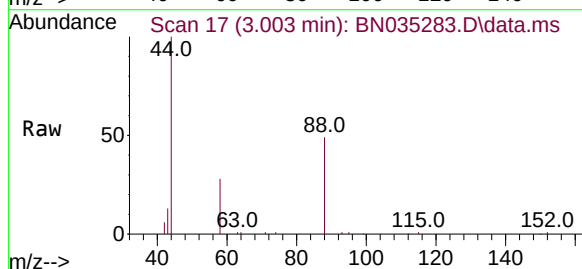


Tgt Ion:152 Resp: 2617  
Ion Ratio Lower Upper  
152 100  
150 155.4 124.5 186.7  
115 57.9 47.8 71.8

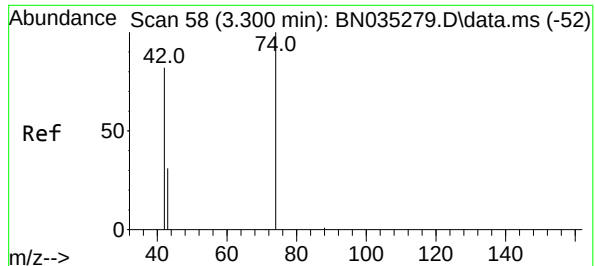


#2  
1,4-Dioxane  
Concen: 3.670 ng  
RT: 3.003 min Scan# 17  
Delta R.T. -0.000 min  
Lab File: BN035283.D  
Acq: 25 Nov 2024 13:52

Tgt Ion: 88 Resp: 8723  
Ion Ratio Lower Upper  
88 100  
43 27.1 48.1 72.1#  
58 61.7 46.9 70.3



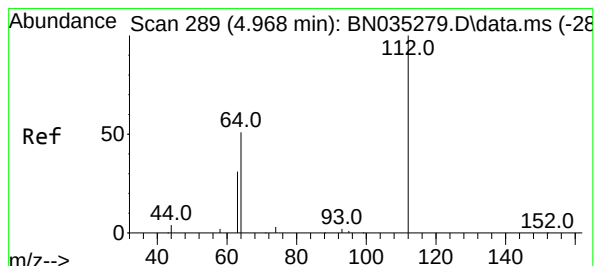
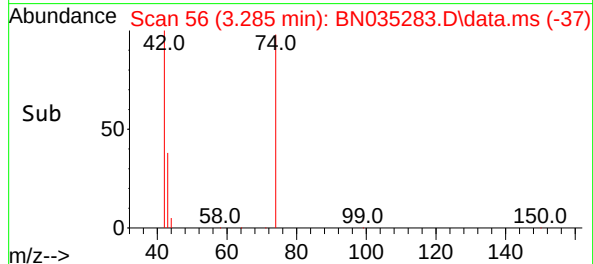
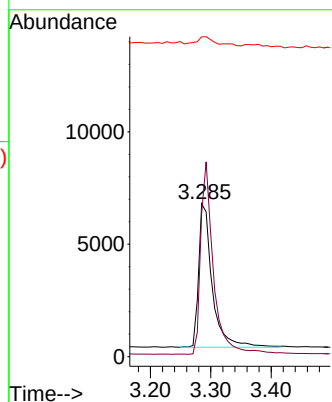
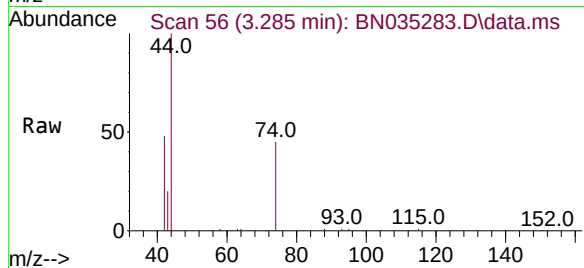




#3  
n-Nitrosodimethylamine  
Concen: 4.521 ng  
RT: 3.285 min Scan# 50  
Delta R.T. -0.015 min  
Lab File: BN035283.D  
Acq: 25 Nov 2024 13:52

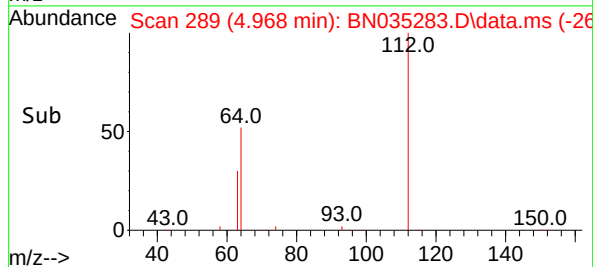
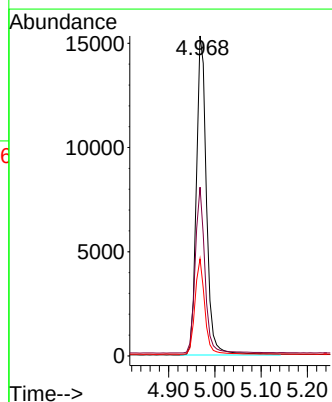
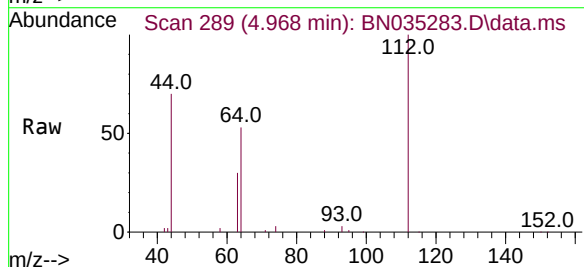
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC5.0

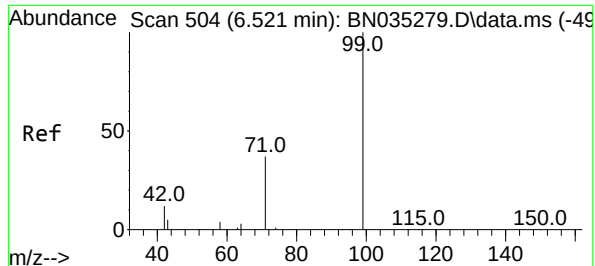
Tgt Ion: 42 Resp: 10016  
Ion Ratio Lower Upper  
42 100  
74 126.0 102.7 154.1  
44 8.4 34.1 51.1#



#4  
2-Fluorophenol  
Concen: 3.533 ng  
RT: 4.968 min Scan# 289  
Delta R.T. -0.000 min  
Lab File: BN035283.D  
Acq: 25 Nov 2024 13:52

Tgt Ion: 112 Resp: 23473  
Ion Ratio Lower Upper  
112 100  
64 50.0 40.4 60.6  
63 29.1 23.8 35.8

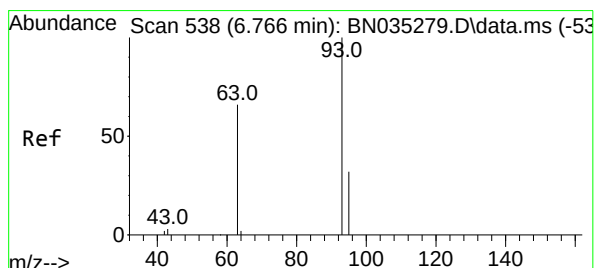
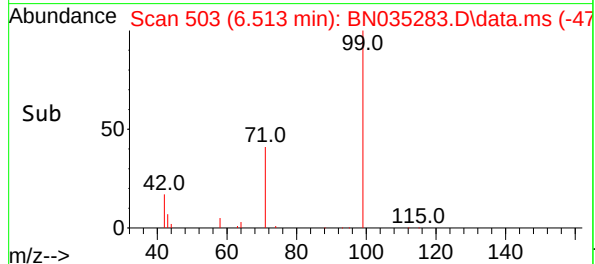
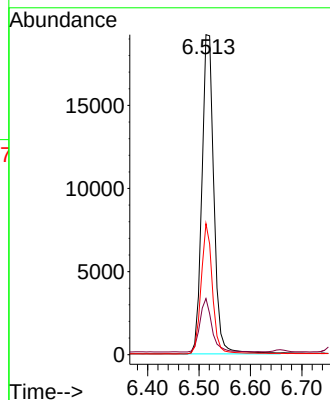
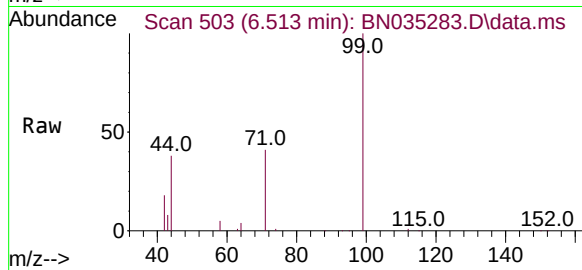




#5  
Phenol-d6  
Concen: 3.749 ng  
RT: 6.513 min Scan# 50  
Delta R.T. -0.007 min  
Lab File: BN035283.D  
Acq: 25 Nov 2024 13:52

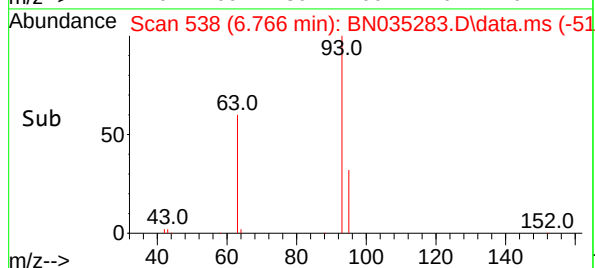
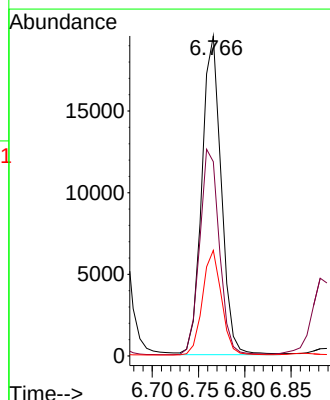
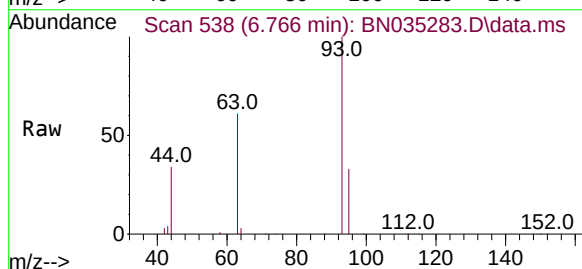
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC5.0

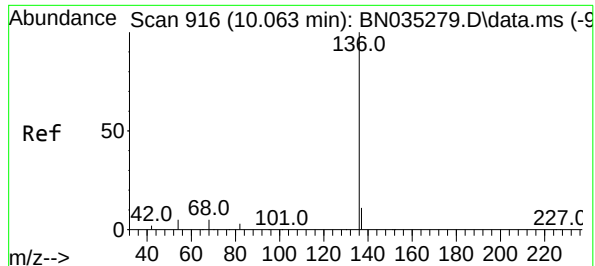
Tgt Ion: 99 Resp: 31227  
Ion Ratio Lower Upper  
99 100  
42 16.8 12.8 19.2  
71 38.6 31.4 47.2



#6  
bis(2-Chloroethyl)ether  
Concen: 4.547 ng  
RT: 6.766 min Scan# 538  
Delta R.T. -0.000 min  
Lab File: BN035283.D  
Acq: 25 Nov 2024 13:52

Tgt Ion: 93 Resp: 28430  
Ion Ratio Lower Upper  
93 100  
63 65.4 52.3 78.5  
95 32.2 25.5 38.3

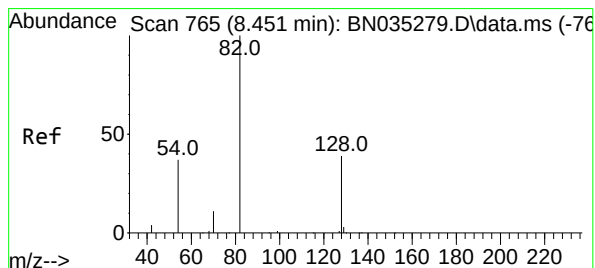
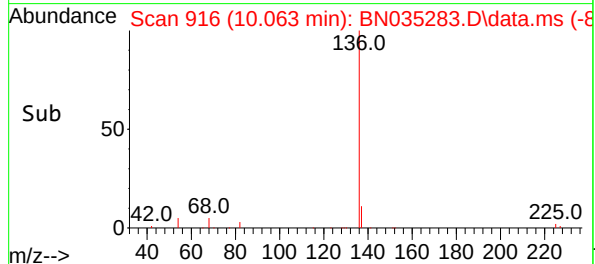
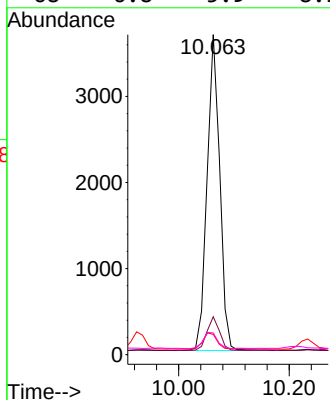
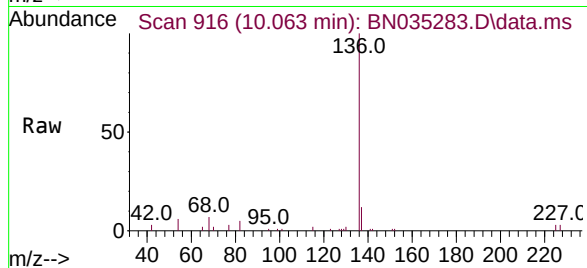




#7  
Naphthalene-d8  
Concen: 0.400 ng  
RT: 10.063 min Scan# 916  
Delta R.T. -0.000 min  
Lab File: BN035283.D  
Acq: 25 Nov 2024 13:52

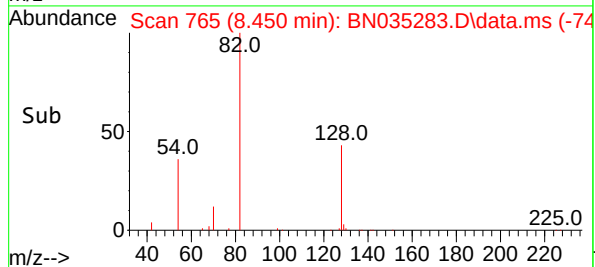
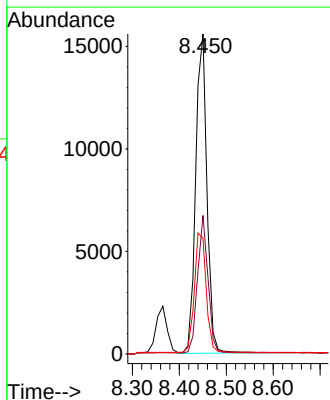
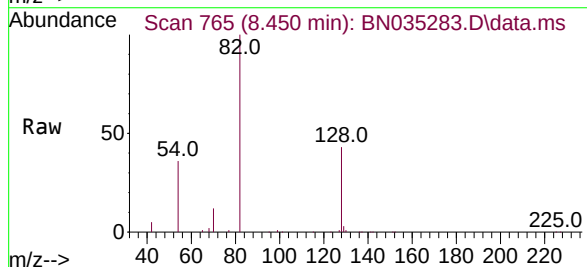
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC5.0

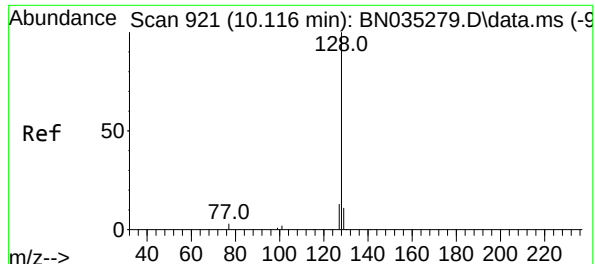
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 136   | Resp: | 5861  |
| Ion      | Ratio | Lower | Upper |
| 136      | 100   |       |       |
| 137      | 11.9  | 9.7   | 14.5  |
| 54       | 6.3   | 5.3   | 7.9   |
| 68       | 6.8   | 5.9   | 8.9   |



#8  
Nitrobenzene-d5  
Concen: 5.090 ng  
RT: 8.450 min Scan# 765  
Delta R.T. -0.000 min  
Lab File: BN035283.D  
Acq: 25 Nov 2024 13:52

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 82    | Resp: | 25967 |
| Ion      | Ratio | Lower | Upper |
| 82       | 100   |       |       |
| 128      | 43.3  | 33.0  | 49.4  |
| 54       | 36.1  | 33.3  | 49.9  |

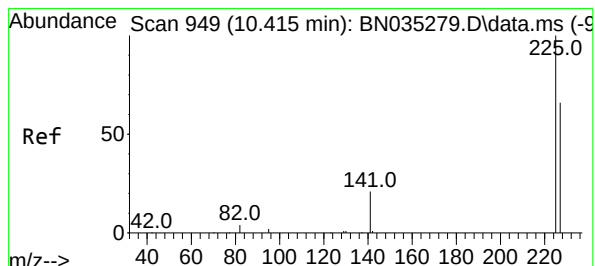
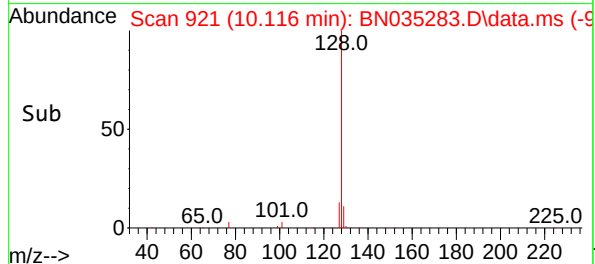
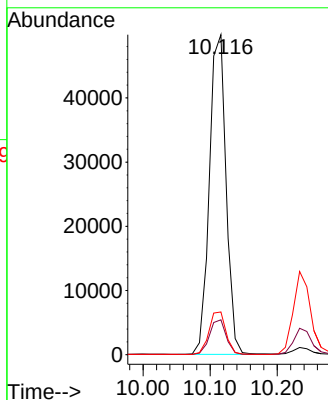
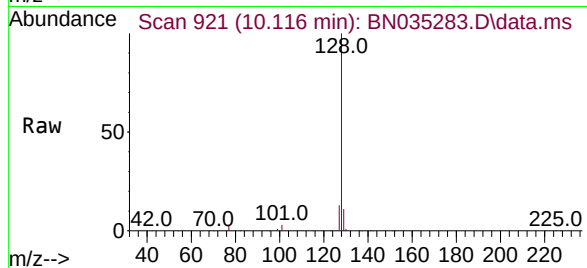




#9  
Naphthalene  
Concen: 5.622 ng  
RT: 10.116 min Scan# 921  
Delta R.T. -0.000 min  
Lab File: BN035283.D  
Acq: 25 Nov 2024 13:52

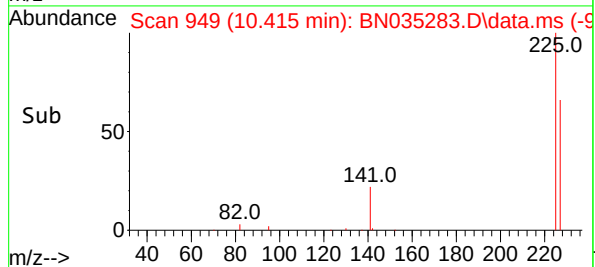
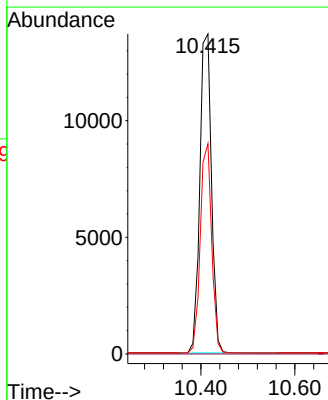
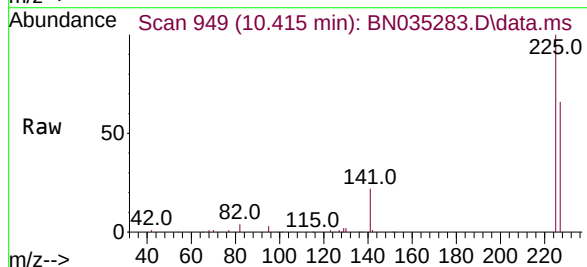
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC5.0

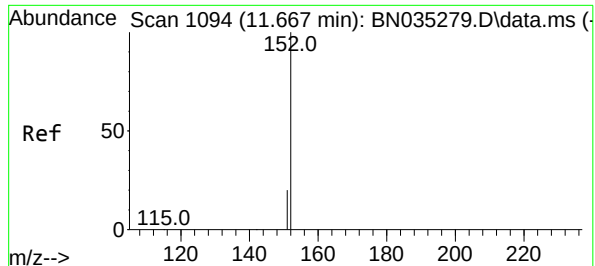
Tgt Ion:128 Resp: 86023  
Ion Ratio Lower Upper  
128 100  
129 10.9 9.6 14.4  
127 13.4 11.3 16.9



#10  
Hexachlorobutadiene  
Concen: 5.265 ng  
RT: 10.415 min Scan# 949  
Delta R.T. -0.000 min  
Lab File: BN035283.D  
Acq: 25 Nov 2024 13:52

Tgt Ion:225 Resp: 23614  
Ion Ratio Lower Upper  
225 100  
223 0.0 0.0 0.0  
227 63.8 51.3 76.9

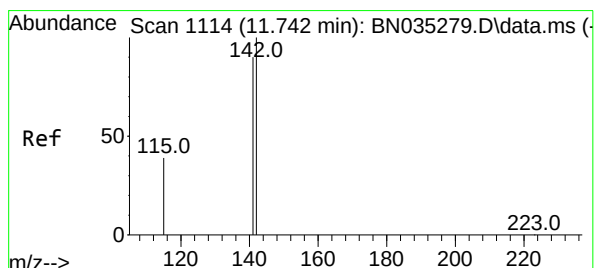
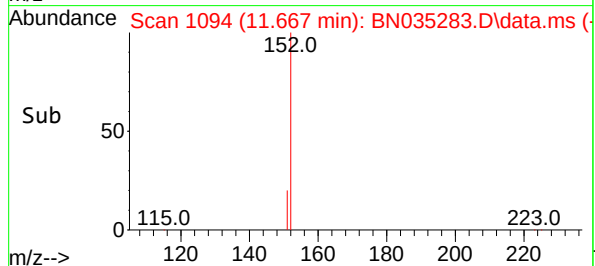
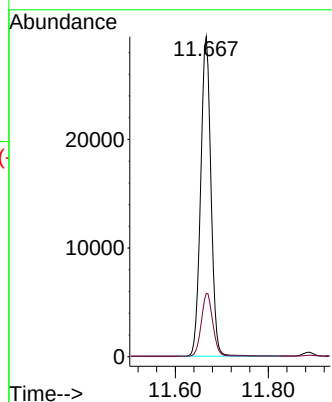
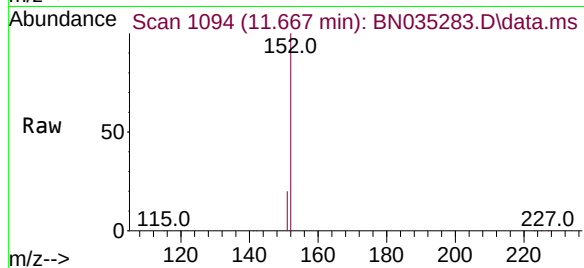




#11  
2-Methylnaphthalene-d10  
Concen: 4.321 ng  
RT: 11.667 min Scan# 1094  
Delta R.T. -0.000 min  
Lab File: BN035283.D  
Acq: 25 Nov 2024 13:52

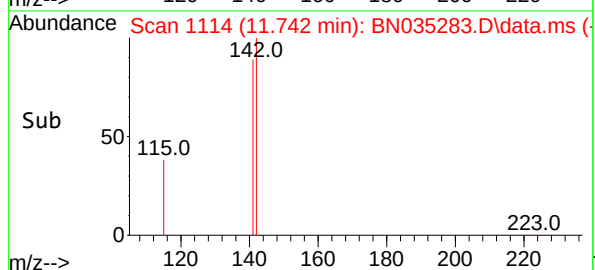
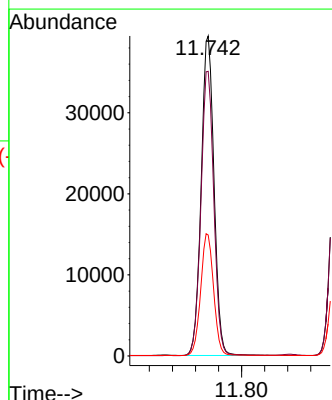
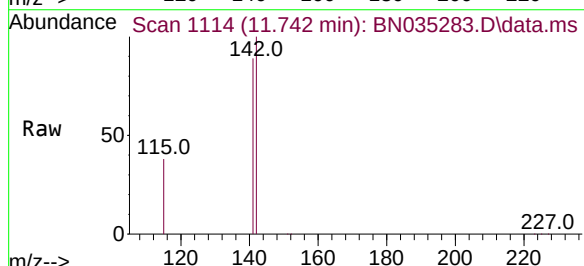
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC5.0

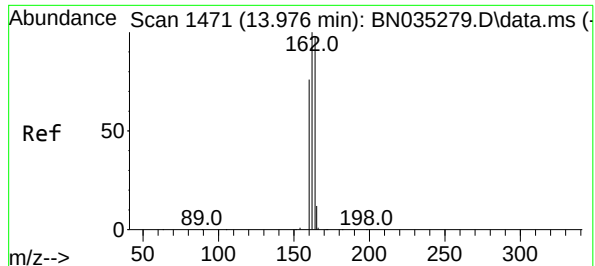
Tgt Ion:152 Resp: 45135  
Ion Ratio Lower Upper  
152 100  
151 21.7 17.2 25.8



#12  
2-Methylnaphthalene  
Concen: 5.378 ng  
RT: 11.742 min Scan# 1114  
Delta R.T. -0.000 min  
Lab File: BN035283.D  
Acq: 25 Nov 2024 13:52

Tgt Ion:142 Resp: 60715  
Ion Ratio Lower Upper  
142 100  
141 88.9 71.8 107.8  
115 37.8 32.6 49.0

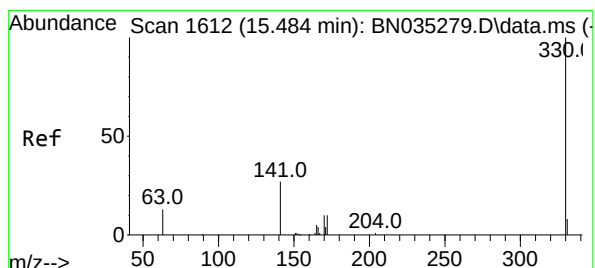
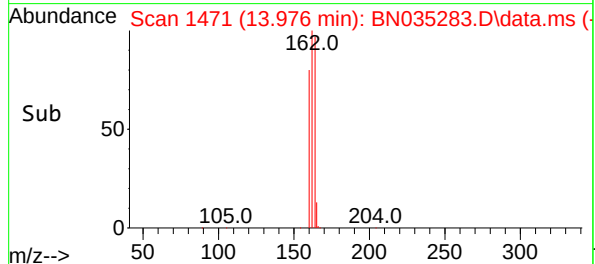
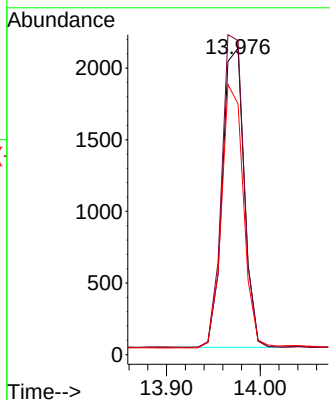
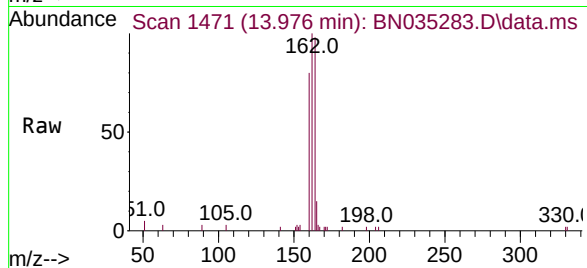




#13  
Acenaphthene-d10  
Concen: 0.400 ng  
RT: 13.976 min Scan# 1471  
Delta R.T. -0.000 min  
Lab File: BN035283.D  
Acq: 25 Nov 2024 13:52

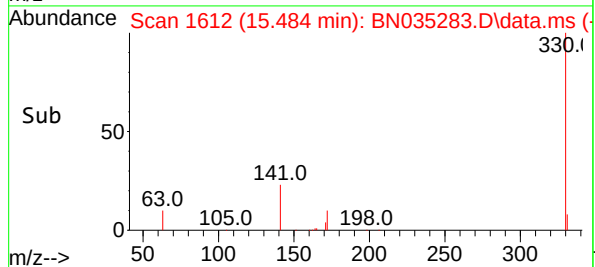
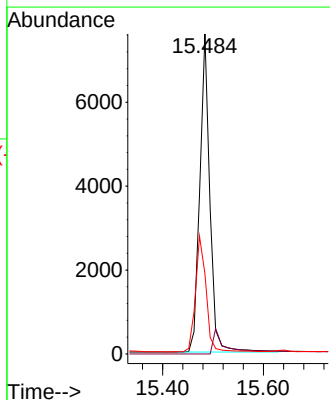
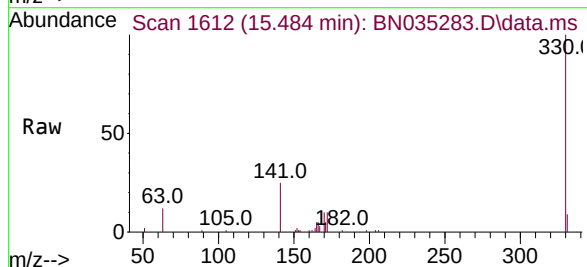
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC5.0

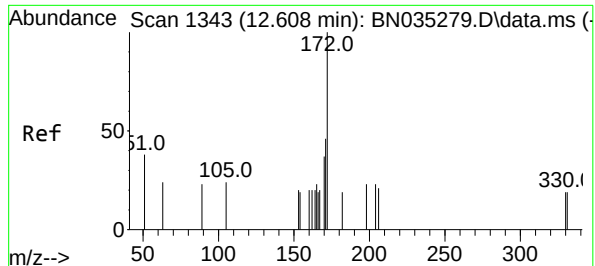
Tgt Ion:164 Resp: 3371  
Ion Ratio Lower Upper  
164 100  
162 102.5 82.0 123.0  
160 81.9 63.0 94.4



#14  
2,4,6-Tribromophenol  
Concen: 4.715 ng  
RT: 15.484 min Scan# 1612  
Delta R.T. -0.000 min  
Lab File: BN035283.D  
Acq: 25 Nov 2024 13:52

Tgt Ion:330 Resp: 11465  
Ion Ratio Lower Upper  
330 100  
332 0.0 0.0 0.0  
141 37.3 32.4 48.6

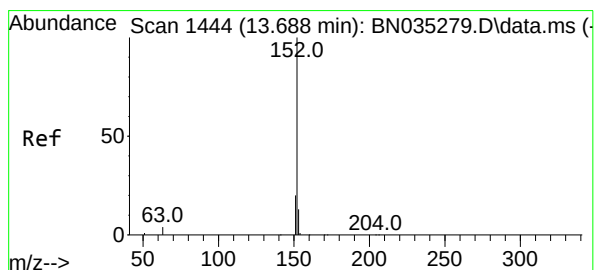
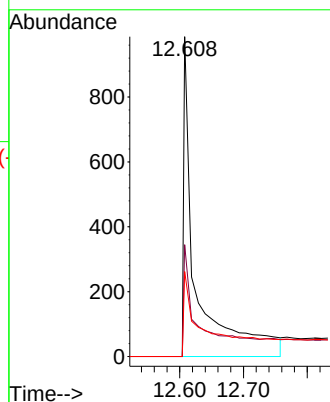
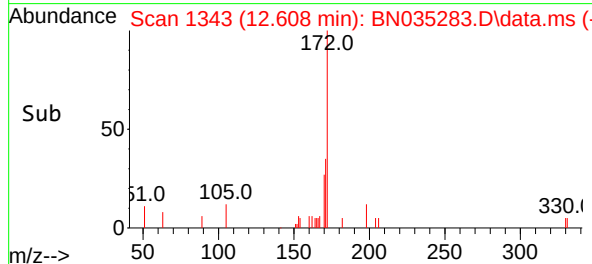
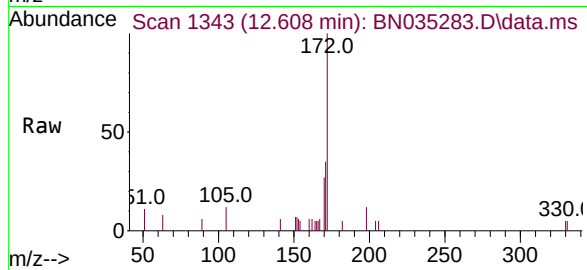




#15  
2-Fluorobiphenyl  
Concen: 0.102 ng  
RT: 12.608 min Scan# 1343  
Delta R.T. -0.000 min  
Lab File: BN035283.D  
Acq: 25 Nov 2024 13:52

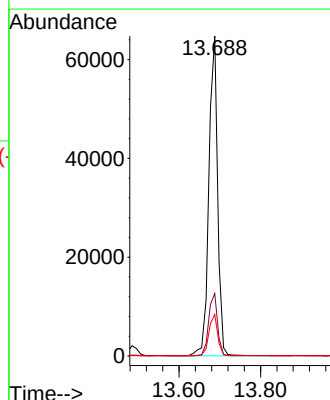
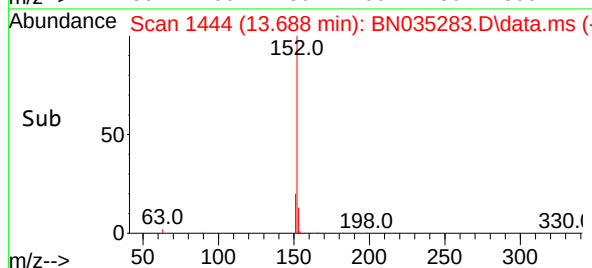
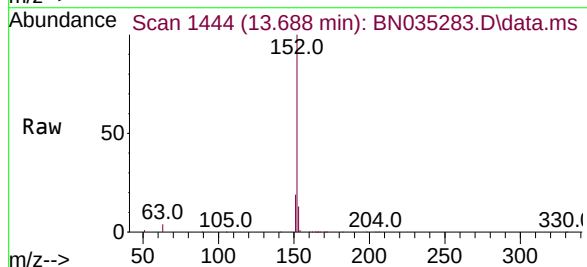
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC5.0

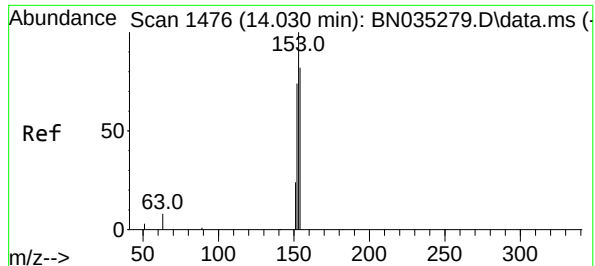
Tgt Ion:172 Resp: 1400  
Ion Ratio Lower Upper  
172 100  
171 35.0 36.6 55.0#  
170 26.6 29.7 44.5#



#16  
Acenaphthylene  
Concen: 6.708 ng  
RT: 13.688 min Scan# 1444  
Delta R.T. -0.000 min  
Lab File: BN035283.D  
Acq: 25 Nov 2024 13:52

Tgt Ion:152 Resp: 96646  
Ion Ratio Lower Upper  
152 100  
151 19.6 15.9 23.9  
153 12.9 10.2 15.4

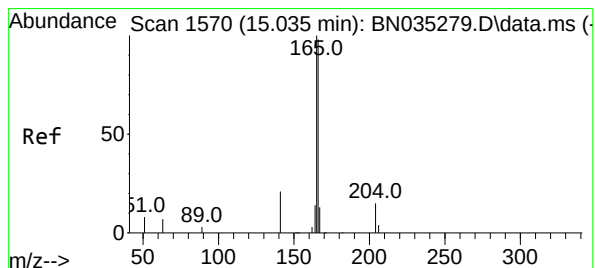
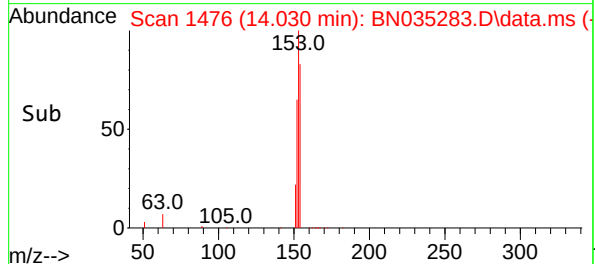
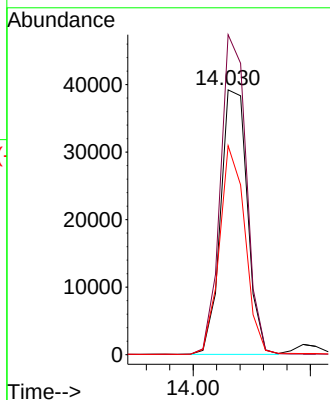
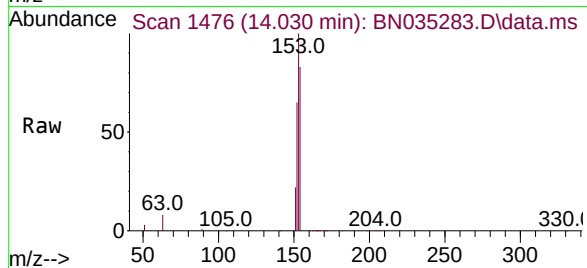




#17  
Acenaphthene  
Concen: 6.574 ng  
RT: 14.030 min Scan# 1476  
Delta R.T. -0.000 min  
Lab File: BN035283.D  
Acq: 25 Nov 2024 13:52

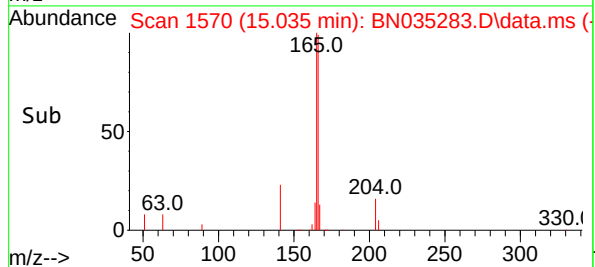
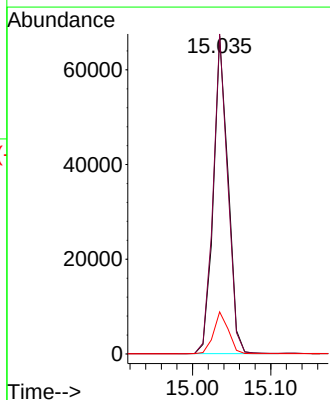
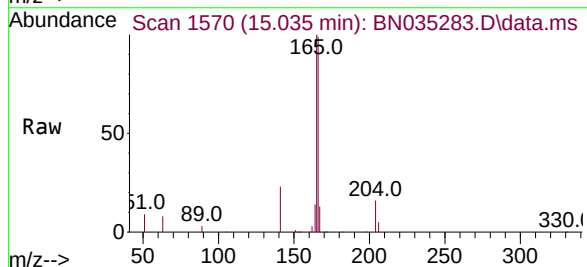
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC5.0

Tgt Ion:154 Resp: 62066  
Ion Ratio Lower Upper  
154 100  
153 117.7 96.1 144.1  
152 76.1 72.2 108.2

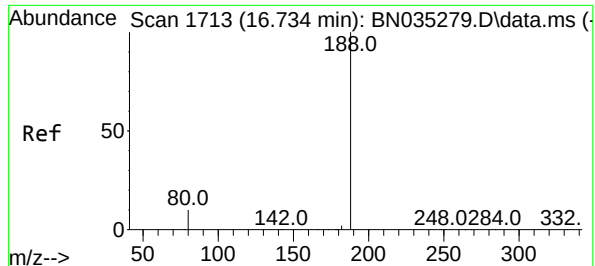


#18  
Fluorene  
Concen: 6.276 ng  
RT: 15.035 min Scan# 1570  
Delta R.T. -0.000 min  
Lab File: BN035283.D  
Acq: 25 Nov 2024 13:52

Tgt Ion:166 Resp: 87161  
Ion Ratio Lower Upper  
166 100  
165 100.1 81.2 121.8  
167 13.3 10.5 15.7







#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 16.734 min Scan# 1713

Delta R.T. -0.000 min

Lab File: BN035283.D

Acq: 25 Nov 2024 13:52

Instrument :

BNA\_N

ClientSampleId :

SSTDICC5.0

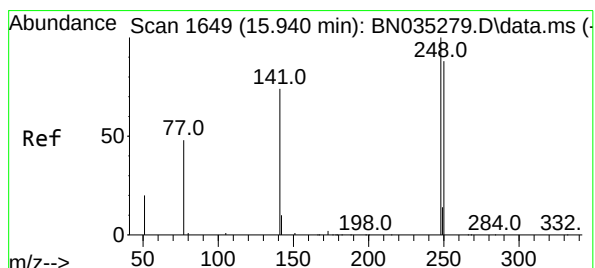
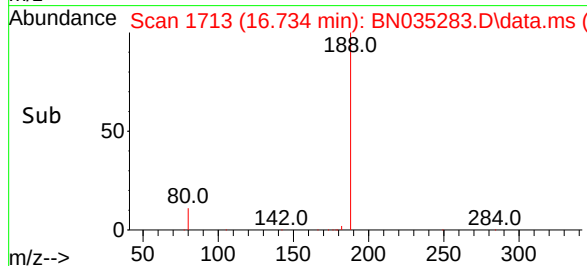
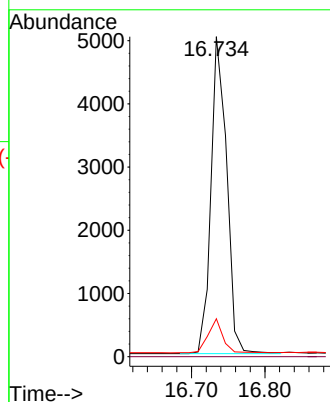
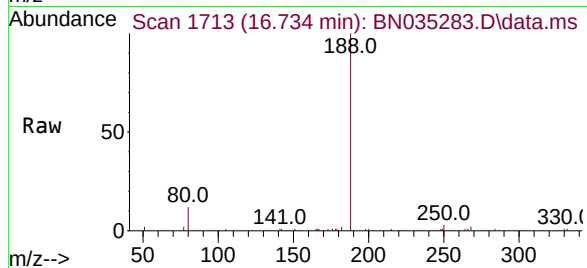
Tgt Ion:188 Resp: 7456

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 11.9 8.9 13.3



#21

4-Bromophenyl-phenylether

Concen: 5.884 ng

RT: 15.939 min Scan# 1649

Delta R.T. -0.000 min

Lab File: BN035283.D

Acq: 25 Nov 2024 13:52

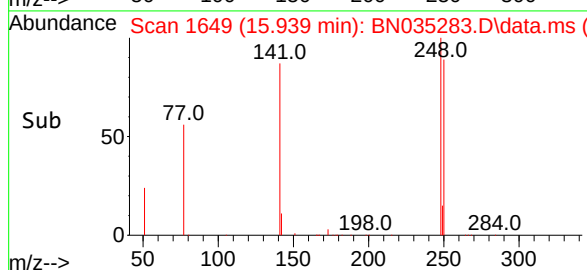
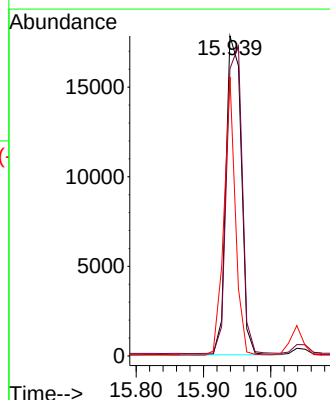
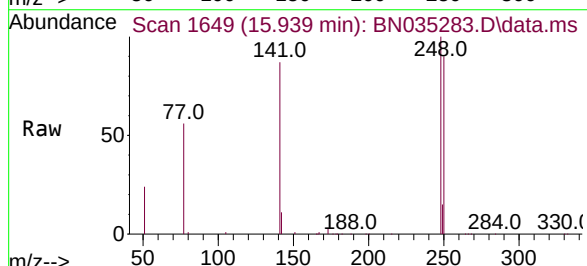
Tgt Ion:248 Resp: 27951

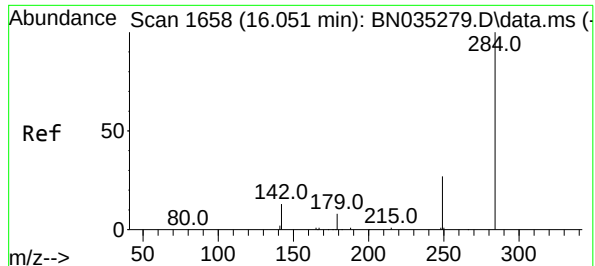
Ion Ratio Lower Upper

248 100

250 89.8 74.8 112.2

141 87.2 59.0 88.4

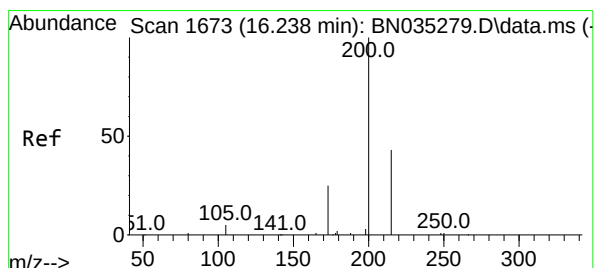
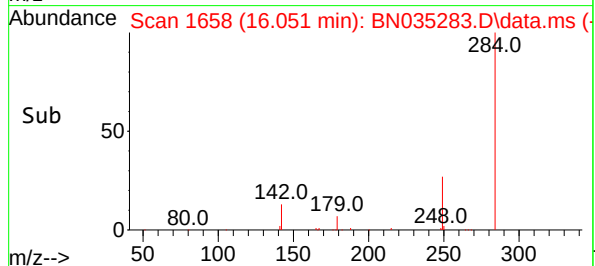
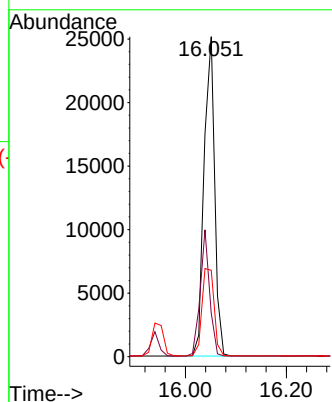
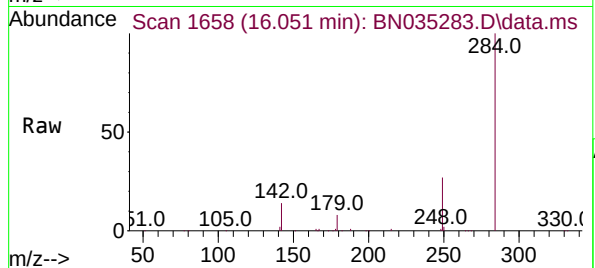




#22  
Hexachlorobenzene  
Concen: 7.450 ng  
RT: 16.051 min Scan# 1658  
Delta R.T. -0.000 min  
Lab File: BN035283.D  
Acq: 25 Nov 2024 13:52

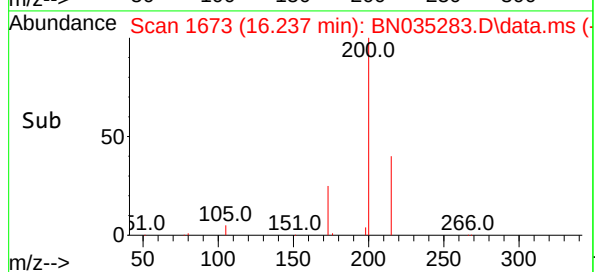
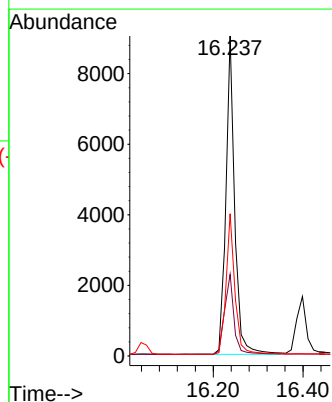
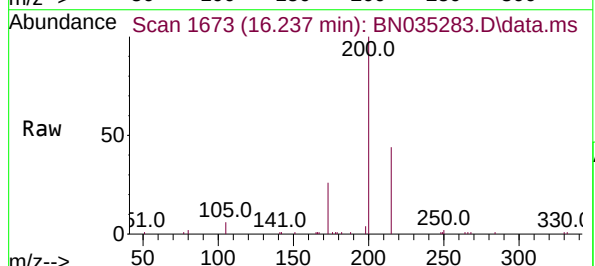
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC5.0

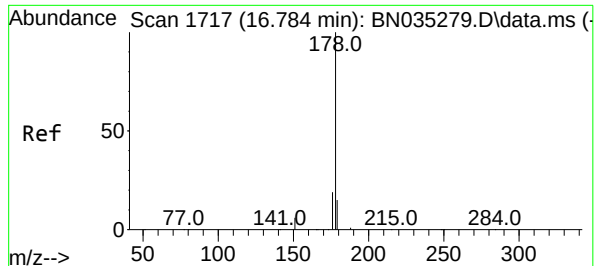
Tgt Ion:284 Resp: 36728  
Ion Ratio Lower Upper  
284 100  
142 35.3 28.7 43.1  
249 31.4 25.4 38.0



#23  
Atrazine  
Concen: 2.900 ng  
RT: 16.237 min Scan# 1673  
Delta R.T. -0.000 min  
Lab File: BN035283.D  
Acq: 25 Nov 2024 13:52

Tgt Ion:200 Resp: 12358  
Ion Ratio Lower Upper  
200 100  
173 25.5 25.8 38.8#  
215 44.4 38.6 58.0

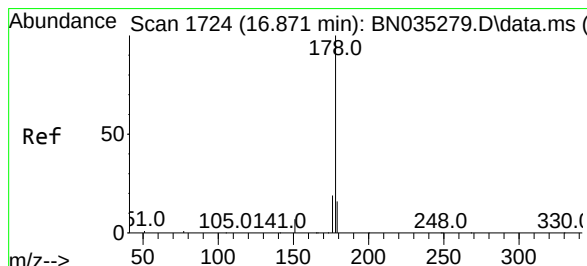
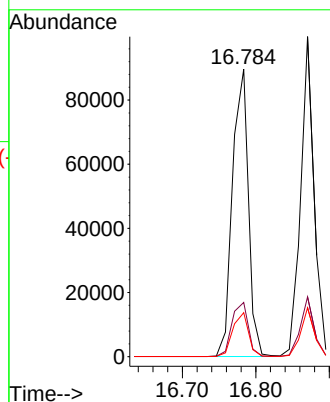
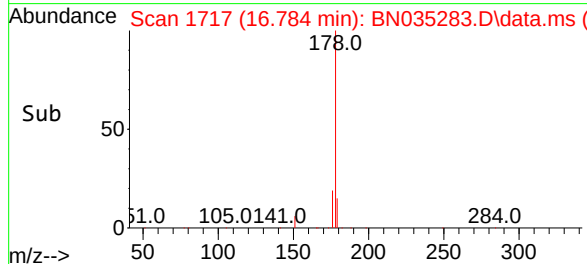
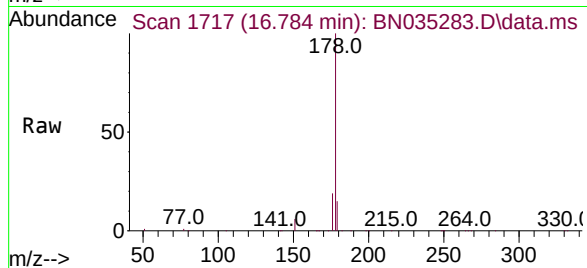




#25  
Phenanthrene  
Concen: 6.879 ng  
RT: 16.784 min Scan# 1717  
Delta R.T. -0.000 min  
Lab File: BN035283.D  
Acq: 25 Nov 2024 13:52

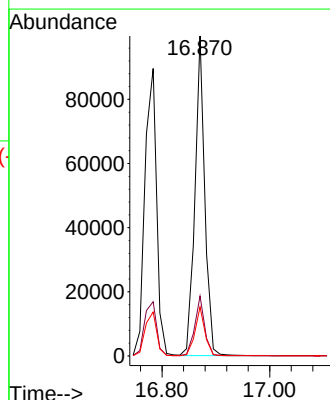
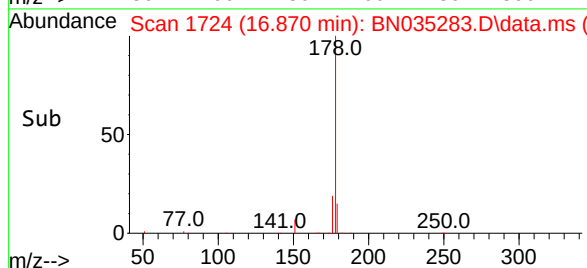
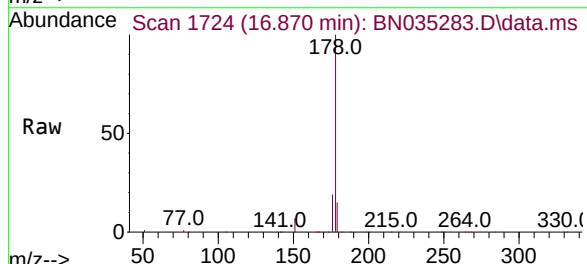
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC5.0

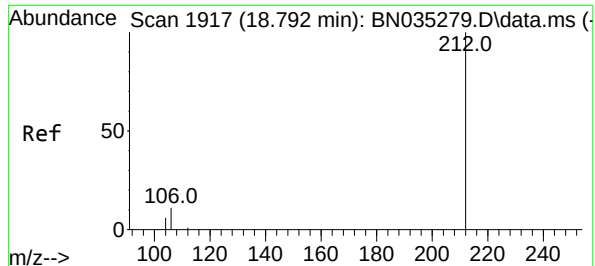
Tgt Ion:178 Resp: 134973  
Ion Ratio Lower Upper  
178 100  
176 19.5 15.4 23.0  
179 15.1 12.6 18.8



#26  
Anthracene  
Concen: 7.069 ng  
RT: 16.870 min Scan# 1724  
Delta R.T. -0.000 min  
Lab File: BN035283.D  
Acq: 25 Nov 2024 13:52

Tgt Ion:178 Resp: 127410  
Ion Ratio Lower Upper  
178 100  
176 18.7 15.0 22.4  
179 15.3 12.4 18.6





#27

Fluoranthene-d10

Concen: 5.178 ng

RT: 18.792 min Scan# 1917

Delta R.T. -0.000 min

Lab File: BN035283.D

Acq: 25 Nov 2024 13:52

Instrument :

BNA\_N

ClientSampleId :

SSTDICC5.0

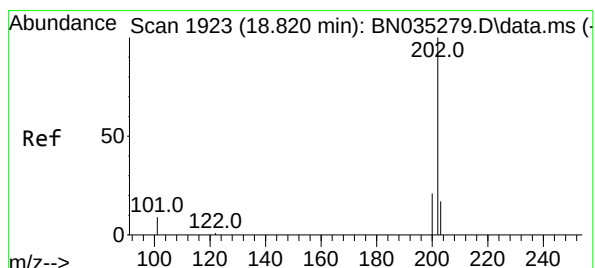
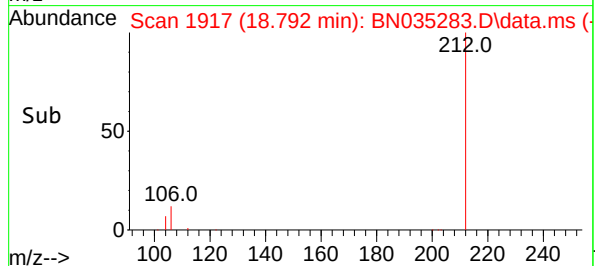
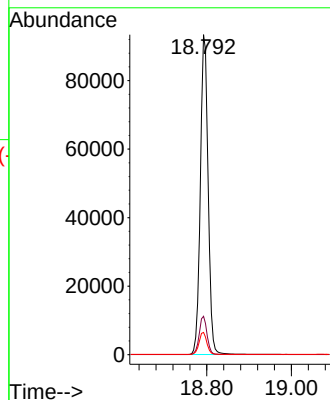
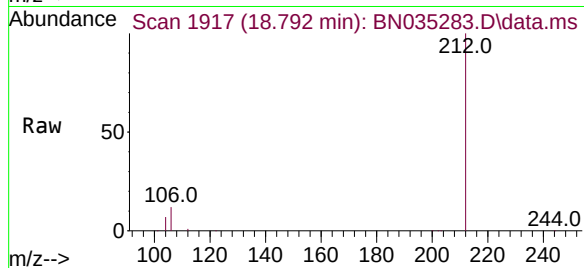
Tgt Ion:212 Resp: 118272

Ion Ratio Lower Upper

212 100

106 12.0 9.8 14.8

104 7.0 5.6 8.4



#28

Fluoranthene

Concen: 6.587 ng

RT: 18.825 min Scan# 1924

Delta R.T. 0.005 min

Lab File: BN035283.D

Acq: 25 Nov 2024 13:52

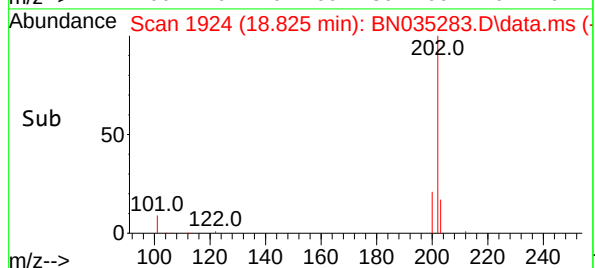
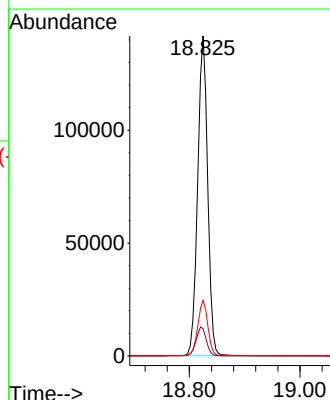
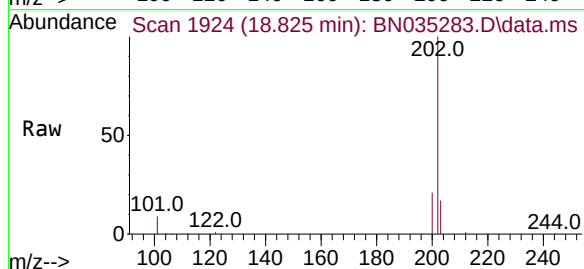
Tgt Ion:202 Resp: 177741

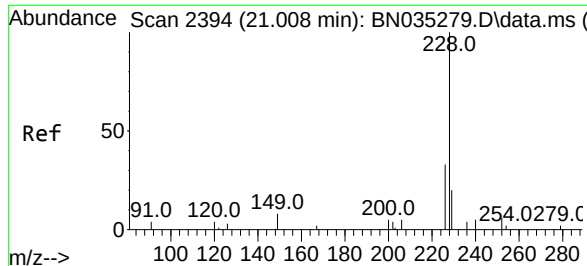
Ion Ratio Lower Upper

202 100

101 9.3 7.6 11.4

203 17.3 13.8 20.8





#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.008 min Scan# 21

Delta R.T. -0.000 min

Lab File: BN035283.D

Acq: 25 Nov 2024 13:52

Instrument :

BNA\_N

ClientSampleId :

SSTDICC5.0

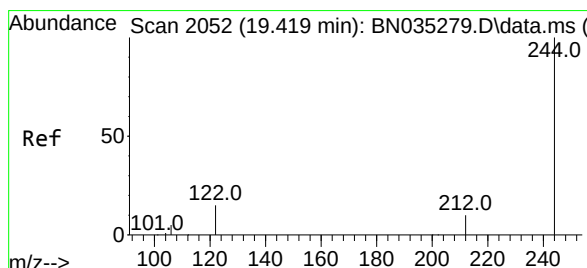
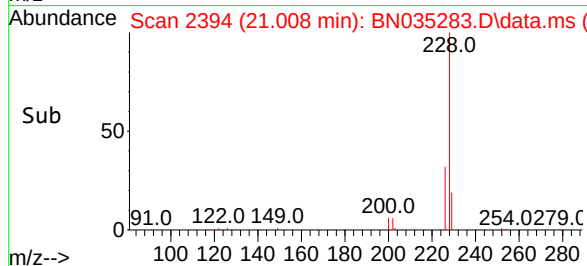
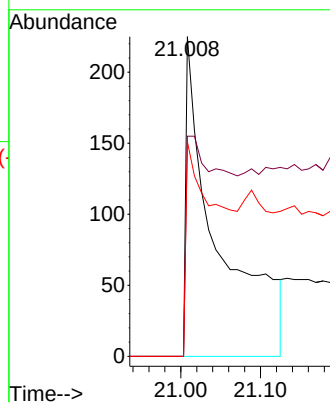
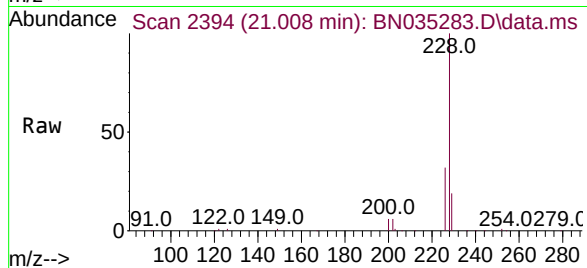
Tgt Ion:240 Resp: 600

Ion Ratio Lower Upper

240 100

120 68.9 54.9 82.3

236 67.1 54.0 81.0



#31

Terphenyl-d14

Concen: 61.679 ng

RT: 19.419 min Scan# 2052

Delta R.T. -0.000 min

Lab File: BN035283.D

Acq: 25 Nov 2024 13:52

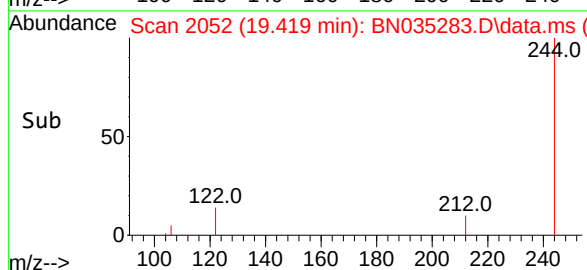
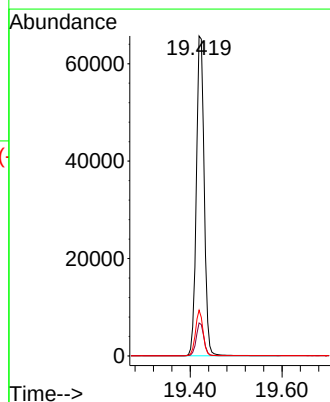
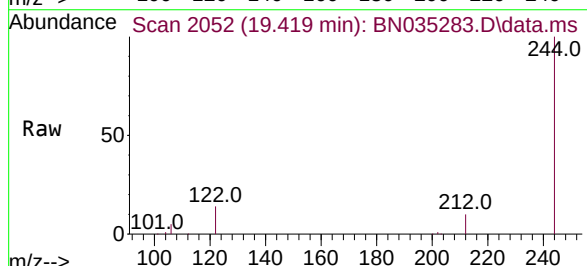
Tgt Ion:244 Resp: 77655

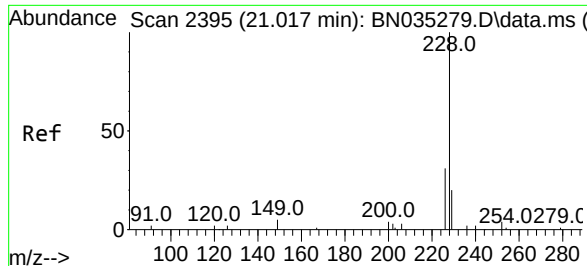
Ion Ratio Lower Upper

244 100

212 10.3 9.4 14.0

122 14.3 13.0 19.4

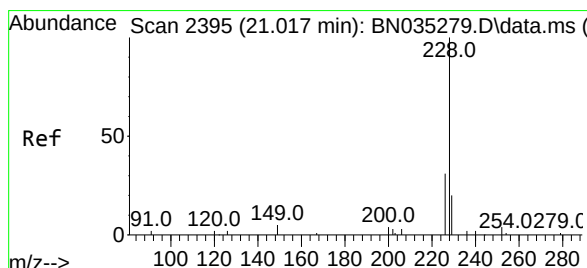
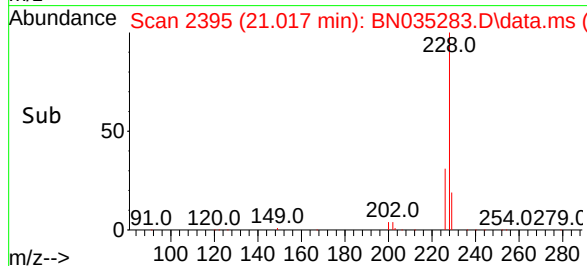
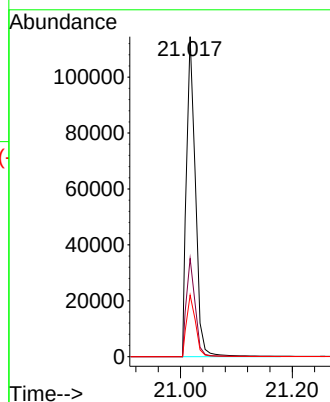
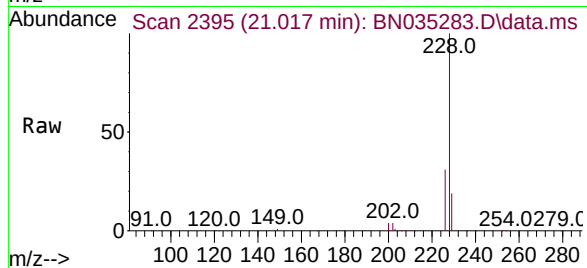




#32  
Benzo(a)anthracene  
Concen: 61.527 ng  
RT: 21.017 min Scan# 21  
Delta R.T. -0.000 min  
Lab File: BN035283.D  
Acq: 25 Nov 2024 13:52

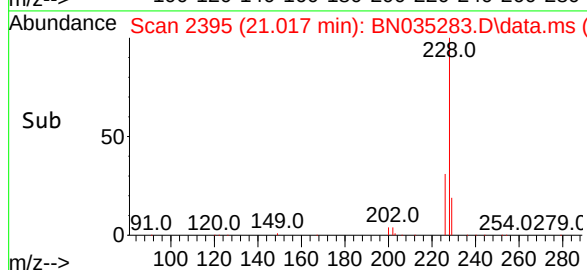
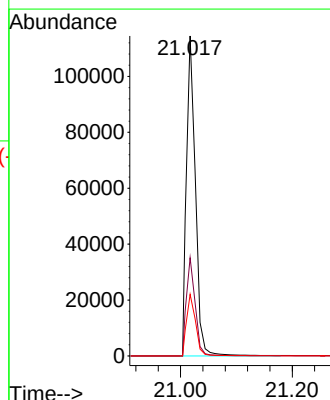
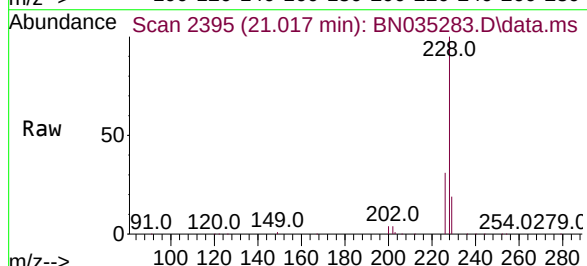
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC5.0

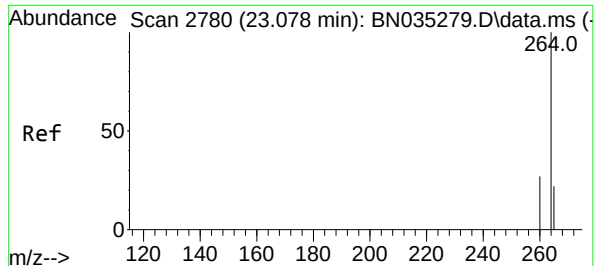
Tgt Ion:228 Resp: 128544  
Ion Ratio Lower Upper  
228 100  
226 30.7 24.7 37.1  
229 19.2 16.2 24.2



#33  
Chrysene  
Concen: 62.111 ng  
RT: 21.017 min Scan# 2395  
Delta R.T. -0.000 min  
Lab File: BN035283.D  
Acq: 25 Nov 2024 13:52

Tgt Ion:228 Resp: 128544  
Ion Ratio Lower Upper  
228 100  
226 30.7 24.7 37.1  
229 19.2 16.2 24.2

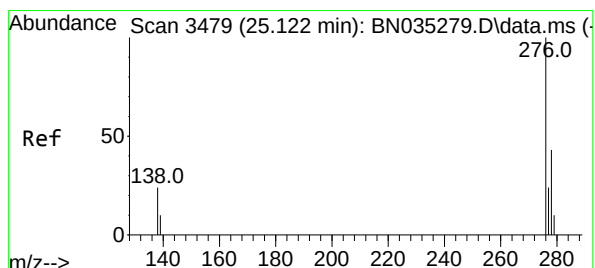
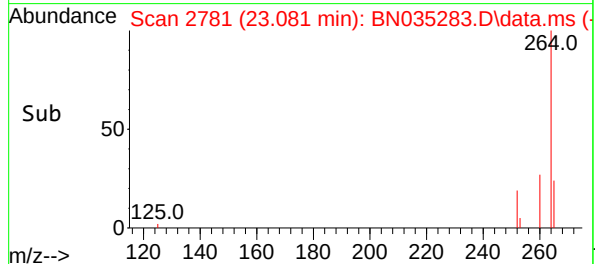
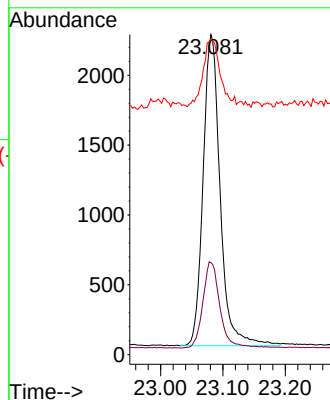
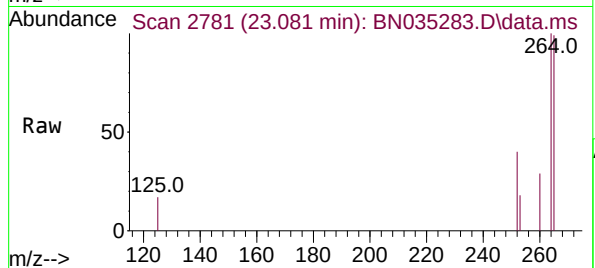




#35  
Perylene-d12  
Concen: 0.400 ng  
RT: 23.081 min Scan# 21  
Delta R.T. 0.003 min  
Lab File: BN035283.D  
Acq: 25 Nov 2024 13:52

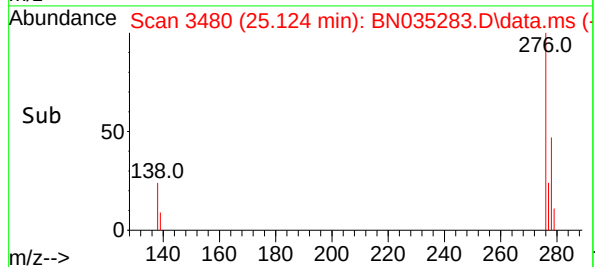
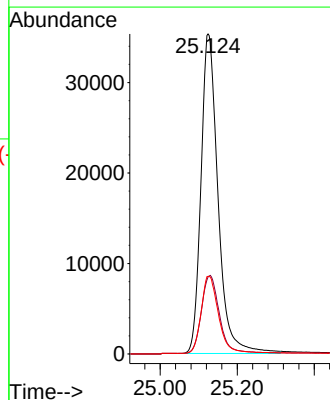
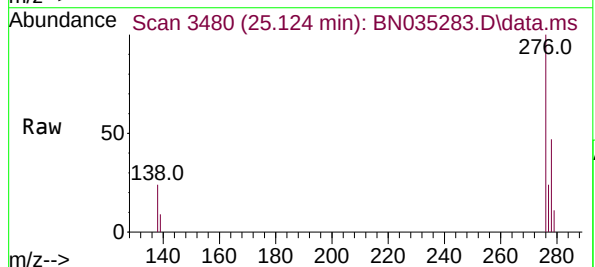
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC5.0

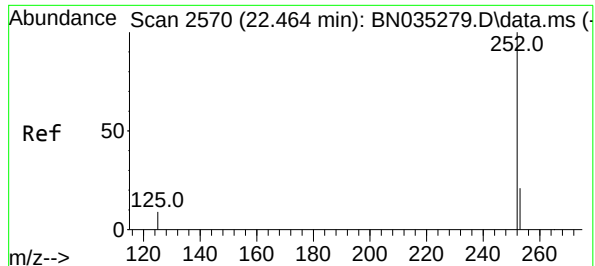
Tgt Ion:264 Resp: 4243  
Ion Ratio Lower Upper  
264 100  
260 28.8 22.3 33.5  
265 98.6 68.6 103.0



#36  
Indeno(1,2,3-cd)pyrene  
Concen: 6.420 ng  
RT: 25.124 min Scan# 3480  
Delta R.T. 0.003 min  
Lab File: BN035283.D  
Acq: 25 Nov 2024 13:52

Tgt Ion:276 Resp: 108670  
Ion Ratio Lower Upper  
276 100  
138 25.5 18.8 28.2  
277 24.8 18.2 27.4





#37

Benzo(b)fluoranthene

Concen: 7.668 ng

RT: 22.467 min Scan# 2571

Delta R.T. 0.003 min

Lab File: BN035283.D

Acq: 25 Nov 2024 13:52

Instrument :

BNA\_N

ClientSampleId :

SSTDICC5.0

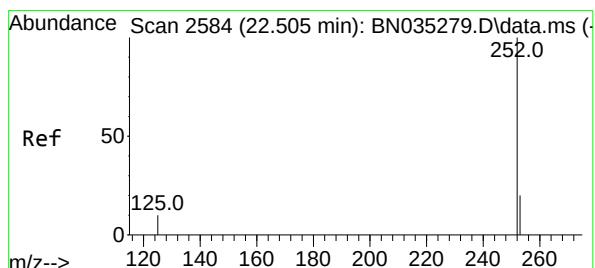
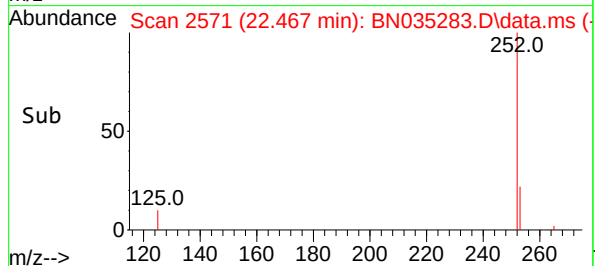
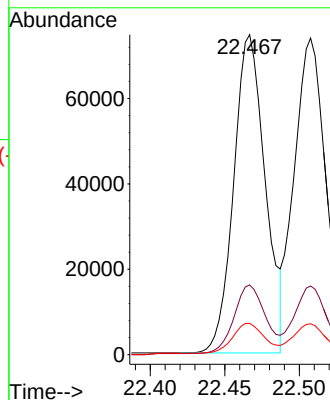
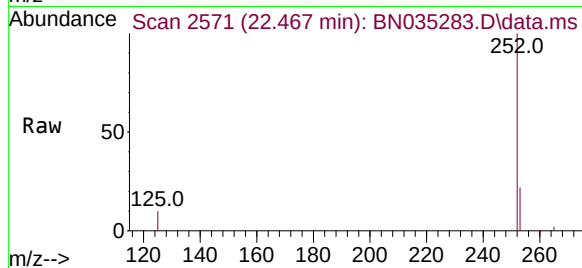
Tgt Ion:252 Resp: 109463

Ion Ratio Lower Upper

252 100

253 21.8 20.2 30.2

125 9.8 12.0 18.0#



#38

Benzo(k)fluoranthene

Concen: 8.038 ng

RT: 22.508 min Scan# 2585

Delta R.T. 0.003 min

Lab File: BN035283.D

Acq: 25 Nov 2024 13:52

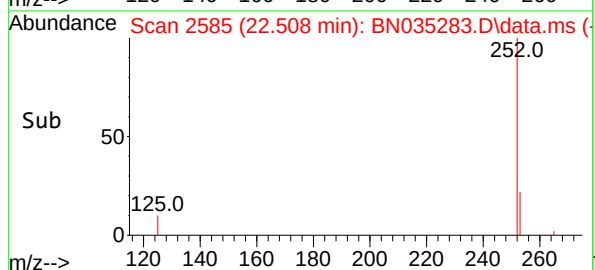
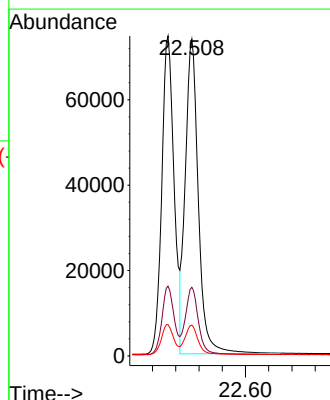
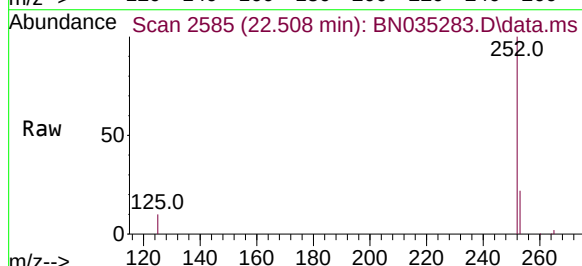
Tgt Ion:252 Resp: 114816

Ion Ratio Lower Upper

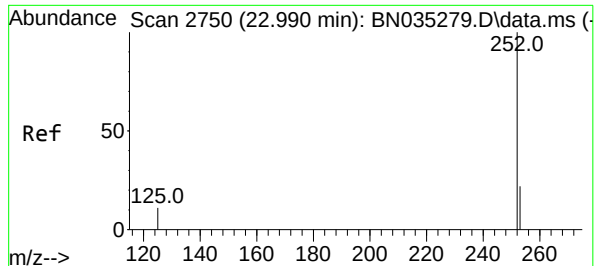
252 100

253 21.7 20.1 30.1

125 9.8 12.7 19.1#







#39

Benzo(a)pyrene

Concen: 6.696 ng

RT: 22.993 min Scan# 21

Delta R.T. 0.003 min

Lab File: BN035283.D

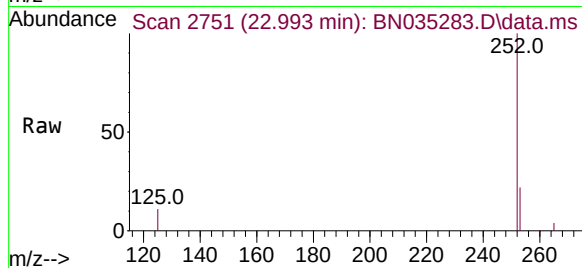
Acq: 25 Nov 2024 13:52

Instrument :

BNA\_N

ClientSampleId :

SSTDICC5.0



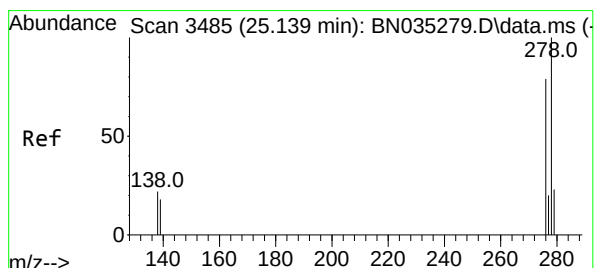
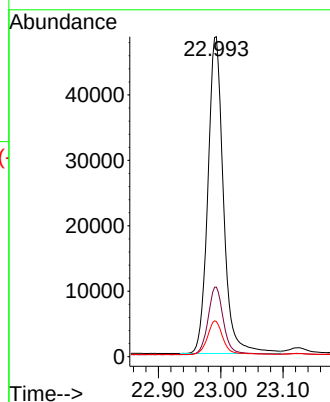
Tgt Ion:252 Resp: 84108

Ion Ratio Lower Upper

252 100

253 21.7 22.3 33.5#

125 11.0 15.3 22.9#



#40

Dibenzo(a,h)anthracene

Concen: 6.375 ng

RT: 25.142 min Scan# 3486

Delta R.T. 0.003 min

Lab File: BN035283.D

Acq: 25 Nov 2024 13:52

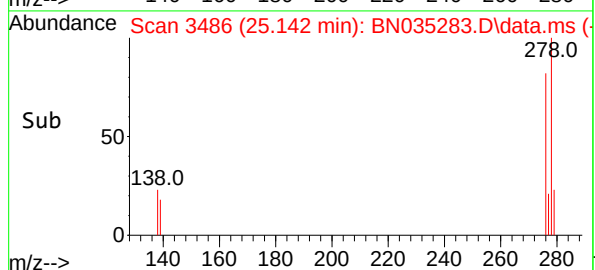
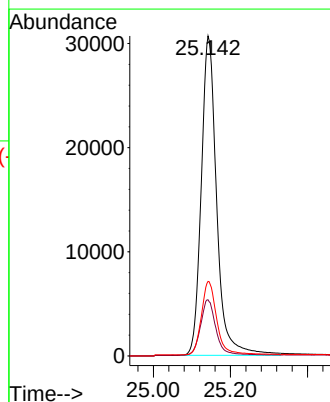
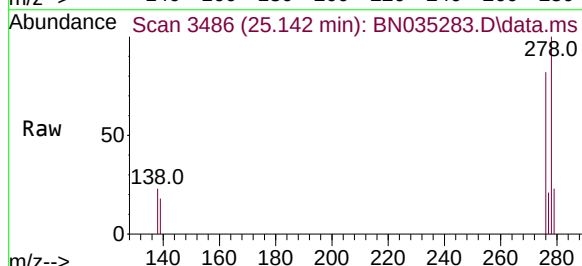
Tgt Ion:278 Resp: 85497

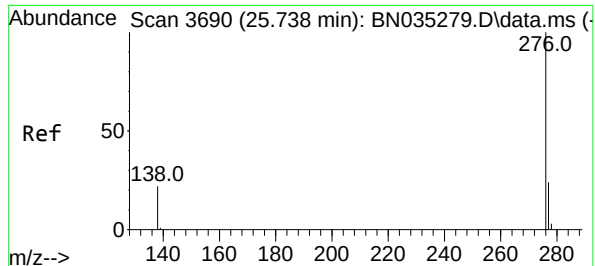
Ion Ratio Lower Upper

278 100

139 17.6 17.0 25.6

279 23.3 23.0 34.4





#41

Benzo(g,h,i)perylene

Concen: 6.459 ng

RT: 25.741 min Scan# 30

Delta R.T. 0.003 min

Lab File: BN035283.D

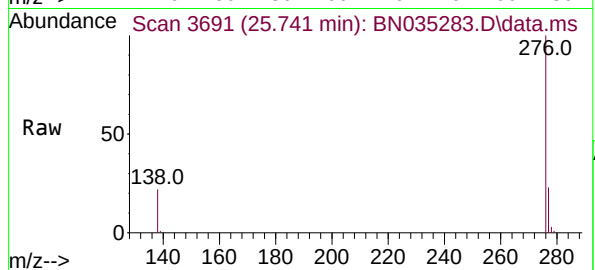
Acq: 25 Nov 2024 13:52

Instrument :

BNA\_N

ClientSampleId :

SSTDICC5.0



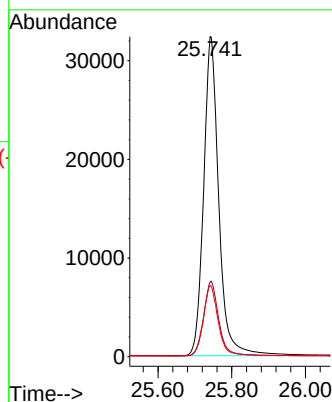
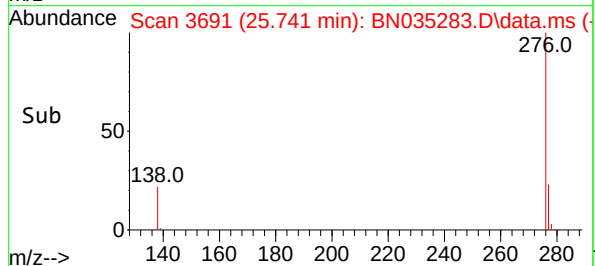
Tgt Ion:276 Resp: 92138

Ion Ratio Lower Upper

276 100

277 23.4 21.1 31.7

138 22.3 19.8 29.8



Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN112524\  
 Data File : BN035284.D  
 Acq On : 25 Nov 2024 14:29  
 Operator : RC/JU  
 Sample : SSTDICV0.4  
 Misc :  
 ALS Vial : 59 Sample Multiplier: 1

Instrument :  
 BNA\_N  
 ClientSampleId :  
 ICVBN112524

Manual Integrations  
 APPROVED

Reviewed By :Yogesh Patel 11/27/2024  
 Supervised By :mohammad ahmed 11/27/2024

Quant Time: Nov 25 22:35:44 2024  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\8270-SIM-BN112524.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Mon Nov 25 14:32:52 2024  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc  | Units | Dev(Min) |
|-------------------------------|--------|------|----------|-------|-------|----------|
| -----                         |        |      |          |       |       |          |
| Internal Standards            |        |      |          |       |       |          |
| 1) 1,4-Dichlorobenzene-d4     | 7.315  | 152  | 2519     | 0.400 | ng    | 0.00     |
| 7) Naphthalene-d8             | 10.063 | 136  | 5593     | 0.400 | ng    | 0.00     |
| 13) Acenaphthene-d10          | 13.976 | 164  | 2659     | 0.400 | ng    | # 0.00   |
| 19) Phenanthrene-d10          | 16.734 | 188  | 5748     | 0.400 | ng    | 0.00     |
| 29) Chrysene-d12              | 21.008 | 240  | 611      | 0.400 | ng    | 0.00     |
| 35) Perylene-d12              | 23.081 | 264  | 3470     | 0.400 | ng    | # 0.00   |
|                               |        |      |          |       |       |          |
| System Monitoring Compounds   |        |      |          |       |       |          |
| 4) 2-Fluorophenol             | 4.968  | 112  | 1712     | 0.360 | ng    | 0.00     |
| 5) Phenol-d6                  | 6.521  | 99   | 2314     | 0.348 | ng    | 0.00     |
| 8) Nitrobenzene-d5            | 8.450  | 82   | 2129     | 0.469 | ng    | 0.00     |
| 11) 2-Methylnaphthalene-d10   | 11.667 | 152  | 2635     | 0.337 | ng    | 0.00     |
| 14) 2,4,6-Tribromophenol      | 15.484 | 330  | 546      | 0.402 | ng    | 0.00     |
| 15) 2-Fluorobiphenyl          | 12.608 | 172  | 683      | 0.465 | ng    | 0.00     |
| 27) Fluoranthene-d10          | 18.792 | 212  | 5270m    | 0.343 | ng    | 0.00     |
| 31) Terphenyl-d14             | 19.419 | 244  | 3187     | 0.282 | ng    | 0.00     |
|                               |        |      |          |       |       |          |
| Target Compounds              |        |      |          |       |       | Qvalue   |
| 2) 1,4-Dioxane                | 3.003  | 88   | 689      | 0.381 | ng    | # 83     |
| 3) n-Nitrosodimethylamine     | 3.299  | 42   | 809      | 0.431 | ng    | # 76     |
| 6) bis(2-Chloroethyl)ether    | 6.766  | 93   | 2132     | 0.381 | ng    | 99       |
| 9) Naphthalene                | 10.116 | 128  | 5975     | 0.385 | ng    | 99       |
| 10) Hexachlorobutadiene       | 10.415 | 225  | 1929     | 0.442 | ng    | # 100    |
| 12) 2-Methylnaphthalene       | 11.742 | 142  | 3297     | 0.325 | ng    | 98       |
| 16) Acenaphthylene            | 13.688 | 152  | 5175     | 0.387 | ng    | 99       |
| 17) Acenaphthene              | 14.030 | 154  | 3227     | 0.383 | ng    | # 90     |
| 18) Fluorene                  | 15.035 | 166  | 4194     | 0.355 | ng    | 97       |
| 20) 4,6-Dinitro-2-methylph... | 15.131 | 198  | 239      | 0.477 | ng    | 98       |
| 21) 4-Bromophenyl-phenylether | 15.940 | 248  | 1328     | 0.364 | ng    | 92       |
| 22) Hexachlorobenzene         | 16.051 | 284  | 2564     | 0.491 | ng    | 98       |
| 23) Atrazine                  | 16.237 | 200  | 643      | 0.419 | ng    | 98       |
| 24) Pentachlorophenol         | 16.399 | 266  | 510      | 0.407 | ng    | 95       |
| 25) Phenanthrene              | 16.784 | 178  | 6385     | 0.362 | ng    | 100      |
| 26) Anthracene                | 16.870 | 178  | 4852     | 0.320 | ng    | 99       |
| 28) Fluoranthene              | 18.825 | 202  | 6686     | 0.300 | ng    | 99       |
| 30) Pyrene                    | 19.192 | 202  | 6525     | 0.294 | ng    | 100      |
| 32) Benzo(a)anthracene        | 21.017 | 228  | 5799     | 0.273 | ng    | 100      |
| 33) Chrysene                  | 21.017 | 228  | 5799     | 0.273 | ng    | 100      |
| 34) Bis(2-ethylhexyl)phtha... | 21.017 | 149  | 520      | 0.041 | ng    | # 98     |
| 36) Indeno(1,2,3-cd)pyrene    | 25.121 | 276  | 5652     | 0.398 | ng    | 99       |
| 37) Benzo(b)fluoranthene      | 22.464 | 252  | 5358     | 0.355 | ng    | 97       |
| 38) Benzo(k)fluoranthene      | 22.508 | 252  | 5559     | 0.348 | ng    | 97       |
| 39) Benzo(a)pyrene            | 22.990 | 252  | 4167     | 0.361 | ng    | 97       |
| 40) Dibenzo(a,h)anthracene    | 25.145 | 278  | 4182     | 0.389 | ng    | 98       |
| 41) Benzo(g,h,i)perylene      | 25.738 | 276  | 5121     | 0.412 | ng    | 99       |
| -----                         |        |      |          |       |       |          |

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

Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN112524\  
 Data File : BN035284.D  
 Acq On : 25 Nov 2024 14:29  
 Operator : RC/JU  
 Sample : SSTDICV0.4  
 Misc :  
 ALS Vial : 59 Sample Multiplier: 1

## Instrument :

BNA\_N

## ClientSampleId :

ICVBN112524

## Manual Integrations

## APPROVED

Reviewed By :Yogesh Patel 11/27/2024

Supervised By :mohammad ahmed 11/27/2024

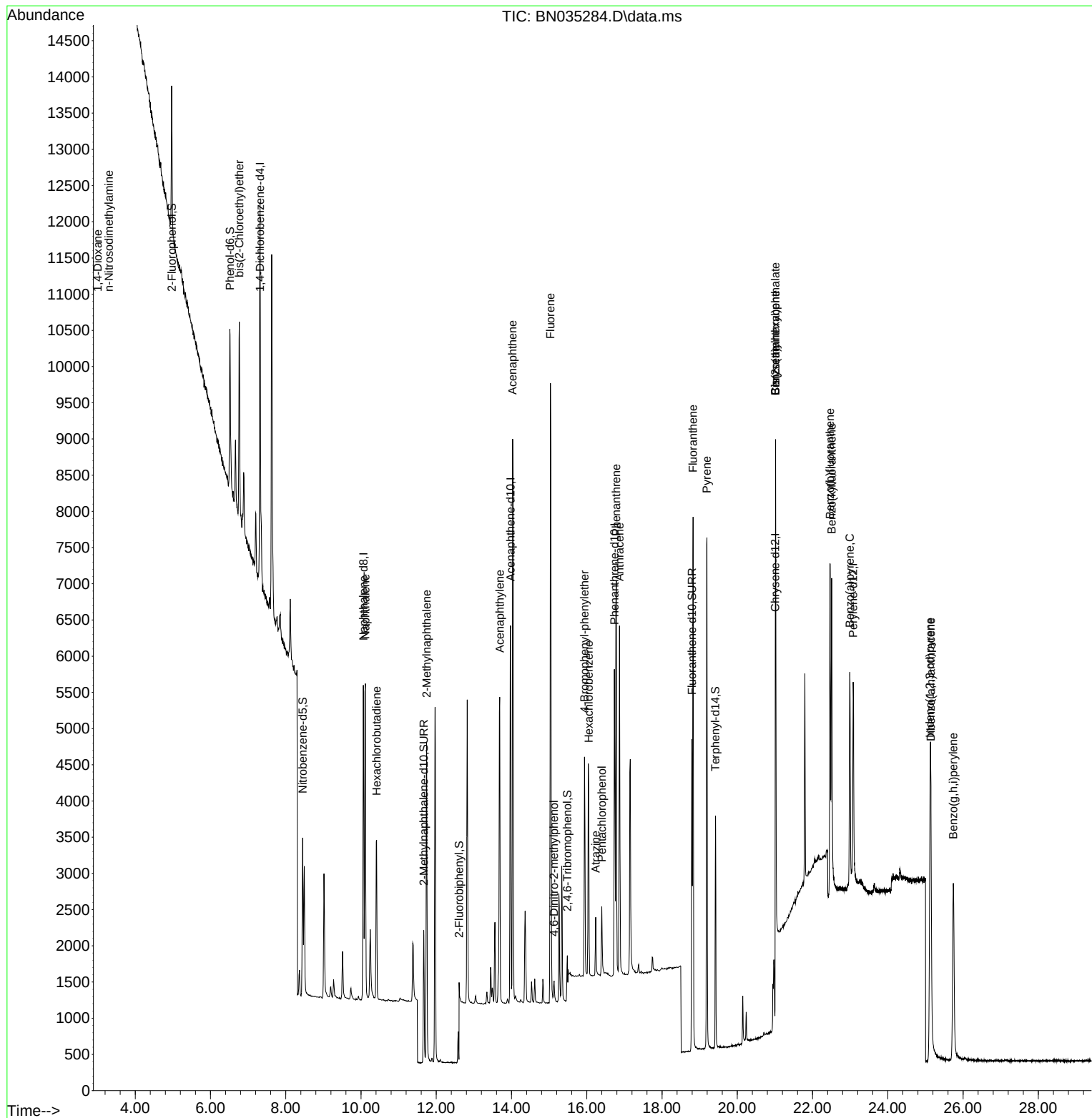
Quant Time: Nov 25 22:35:44 2024

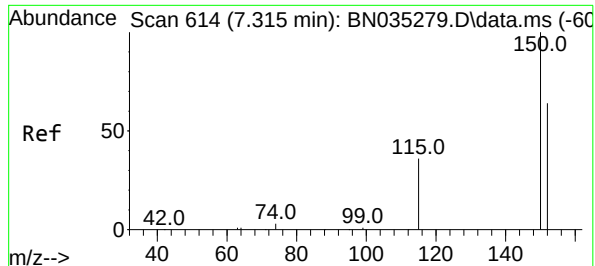
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\8270-SIM-BN112524.M

Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

QLast Update : Mon Nov 25 14:32:52 2024

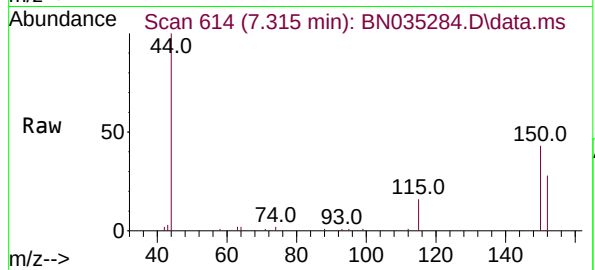
Response via : Initial Calibration





#1  
1,4-Dichlorobenzene-d4  
Concen: 0.400 ng  
RT: 7.315 min Scan# 61  
Delta R.T. -0.000 min  
Lab File: BN035284.D  
Acq: 25 Nov 2024 14:29

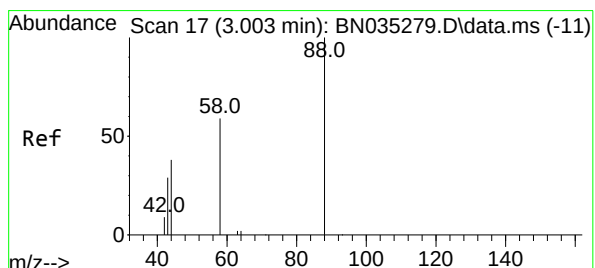
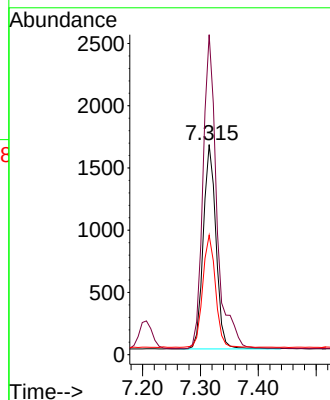
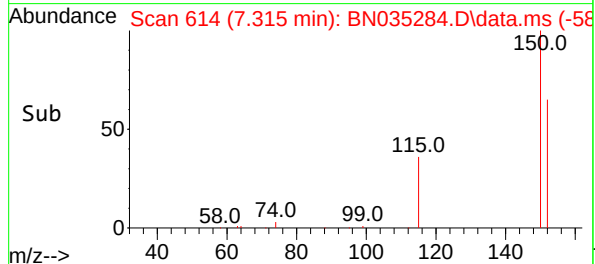
Instrument :  
BNA\_N  
ClientSampleId :  
ICVBN112524



Tgt Ion:152 Resp: 2519  
Ion Ratio Lower Upper  
152 100  
150 152.3 124.5 186.7  
115 56.9 47.8 71.8

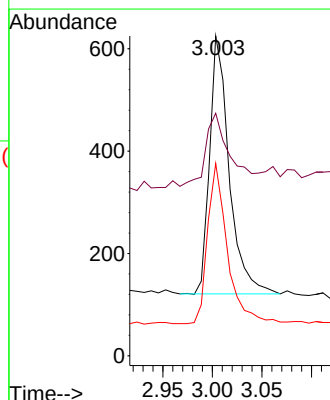
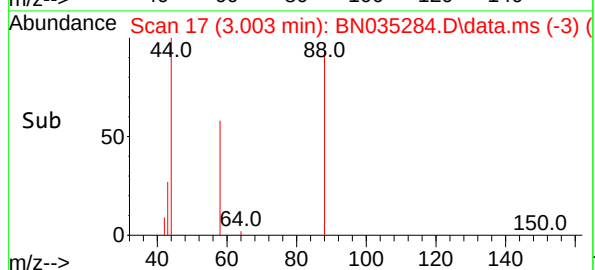
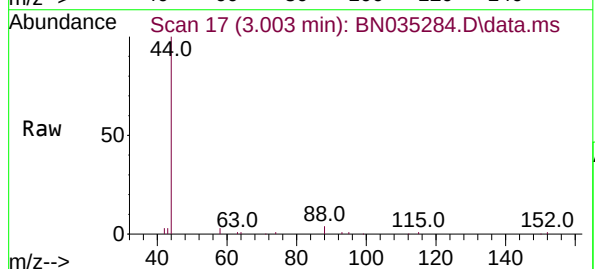
Manual Integrations  
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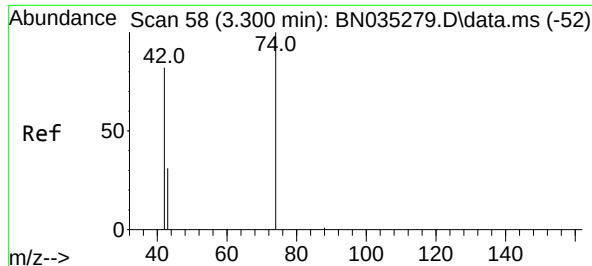
Reviewed By :Yogesh Patel 11/27/2024  
Supervised By :mohammad ahmed 11/27/2024



#2  
1,4-Dioxane  
Concen: 0.381 ng  
RT: 3.003 min Scan# 17  
Delta R.T. 0.000 min  
Lab File: BN035284.D  
Acq: 25 Nov 2024 14:29

Tgt Ion: 88 Resp: 689  
Ion Ratio Lower Upper  
88 100  
43 38.3 48.1 72.1#  
58 62.8 46.9 70.3





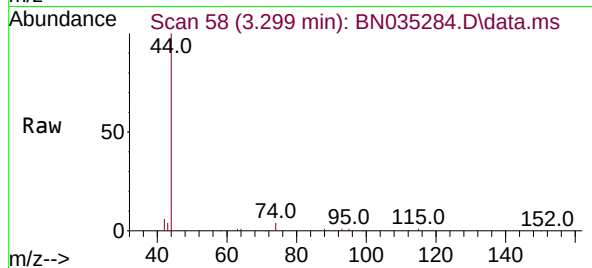
#3  
n-Nitrosodimethylamine  
Concen: 0.431 ng  
RT: 3.299 min Scan# 58  
Delta R.T. -0.001 min  
Lab File: BN035284.D  
Acq: 25 Nov 2024 14:29

Instrument :

BNA\_N

ClientSampleId :

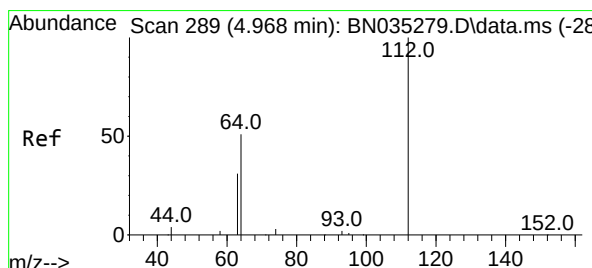
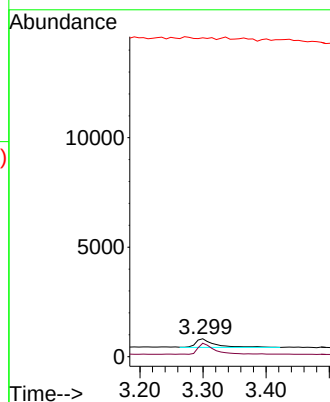
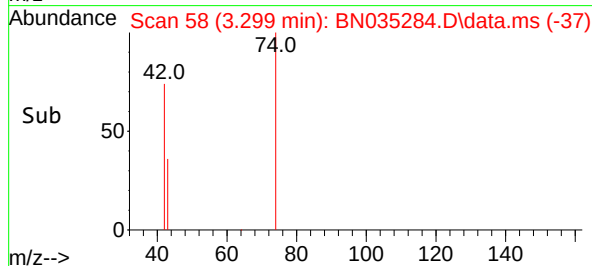
ICVBN112524



Tgt Ion: 42 Resp: 809  
Ion Ratio Lower Upper  
42 100  
74 116.4 102.7 154.1  
44 0.0 34.1 51.1

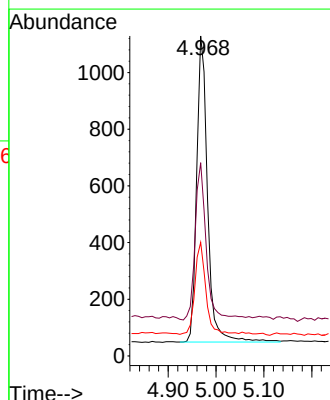
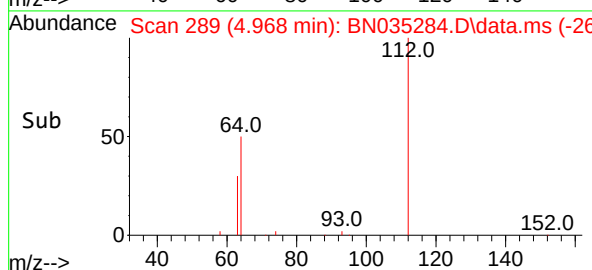
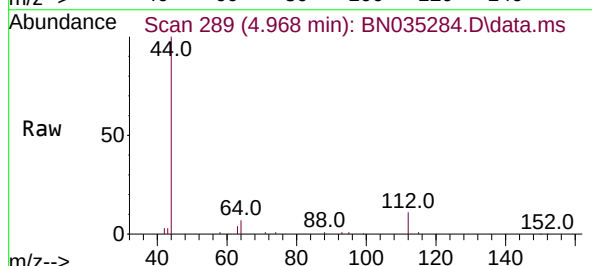
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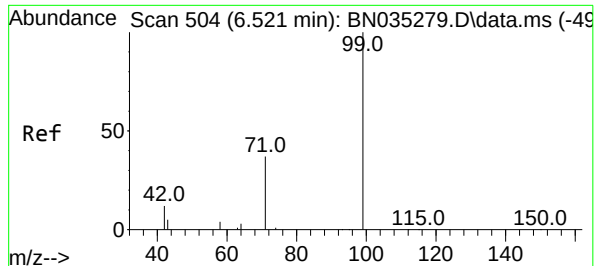
Reviewed By :Yogesh Patel 11/27/2024  
Supervised By :mohammad ahmed 11/27/2024



#4  
2-Fluorophenol  
Concen: 0.360 ng  
RT: 4.968 min Scan# 289  
Delta R.T. -0.000 min  
Lab File: BN035284.D  
Acq: 25 Nov 2024 14:29

Tgt Ion:112 Resp: 1712  
Ion Ratio Lower Upper  
112 100  
64 53.3 40.4 60.6  
63 29.8 23.8 35.8





#5

Phenol-d6

Concen: 0.348 ng

RT: 6.521 min Scan# 504

Delta R.T. -0.000 min

Lab File: BN035284.D

Acq: 25 Nov 2024 14:29

Instrument :

BNA\_N

ClientSampleId :

ICVBN112524

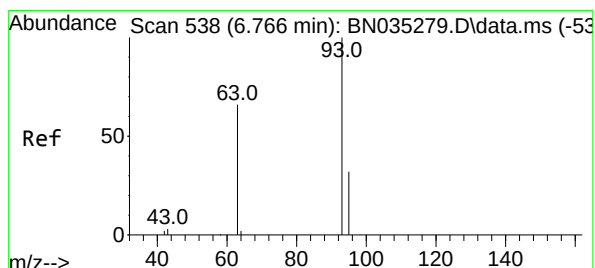
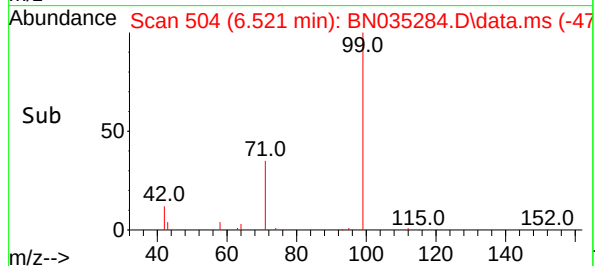
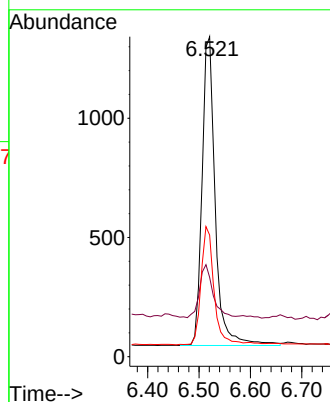
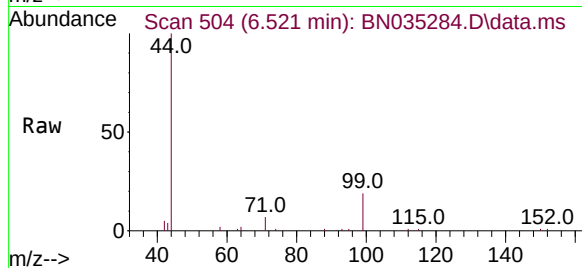
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 99    | Resp: | 2314  |
| Ion      | Ratio | Lower | Upper |
| 99       | 100   |       |       |
| 42       | 17.3  | 12.8  | 19.2  |
| 71       | 38.1  | 31.4  | 47.2  |

## Manual Integrations

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Reviewed By :Yogesh Patel 11/27/2024

Supervised By :mohammad ahmed 11/27/2024



#6

bis(2-Chloroethyl)ether

Concen: 0.381 ng

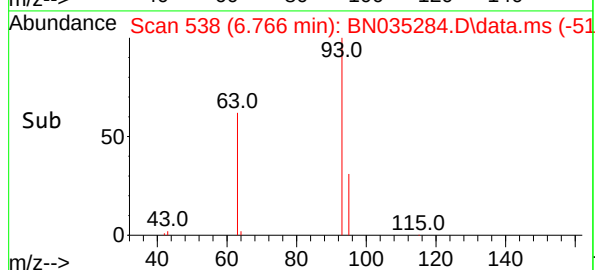
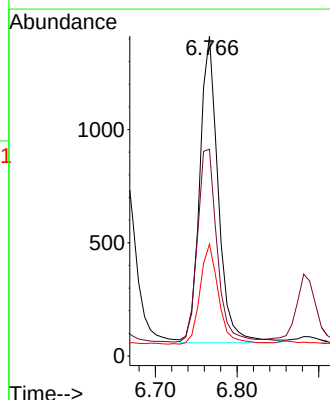
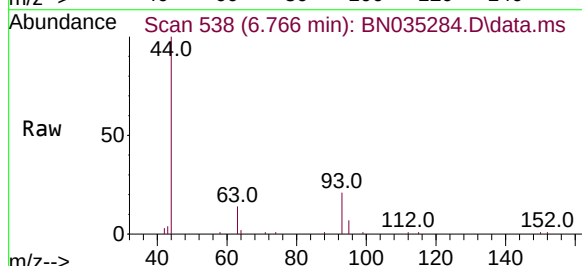
RT: 6.766 min Scan# 538

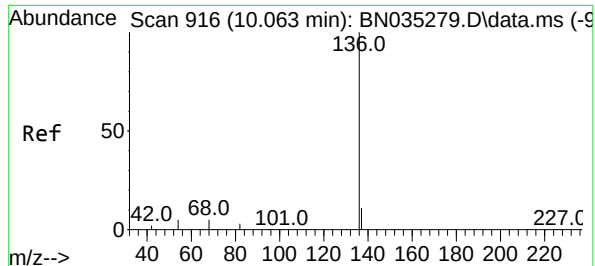
Delta R.T. -0.000 min

Lab File: BN035284.D

Acq: 25 Nov 2024 14:29

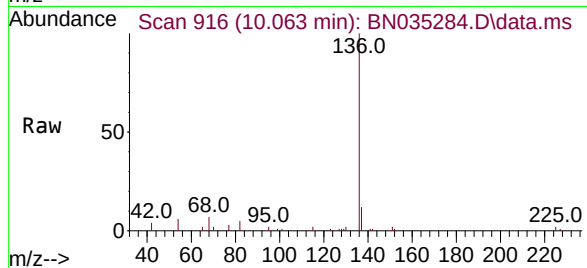
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 93    | Resp: | 2132  |
| Ion      | Ratio | Lower | Upper |
| 93       | 100   |       |       |
| 63       | 66.4  | 52.3  | 78.5  |
| 95       | 32.6  | 25.5  | 38.3  |





#7  
Naphthalene-d8  
Concen: 0.400 ng  
RT: 10.063 min Scan# 916  
Delta R.T. -0.000 min  
Lab File: BN035284.D  
Acq: 25 Nov 2024 14:29

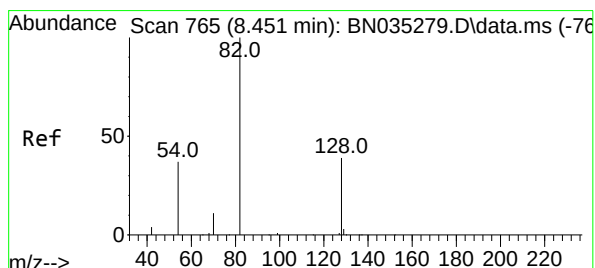
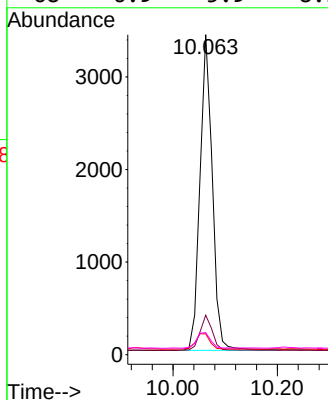
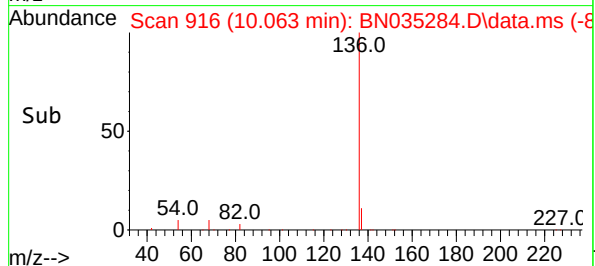
Instrument :  
BNA\_N  
ClientSampleId :  
ICVBN112524



|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 136   | Resp: | 559   |
| Ion      | Ratio | Lower | Upper |
| 136      | 100   |       |       |
| 137      | 12.3  | 9.7   | 14.5  |
| 54       | 6.5   | 5.3   | 7.9   |
| 68       | 6.9   | 5.9   | 8.9   |

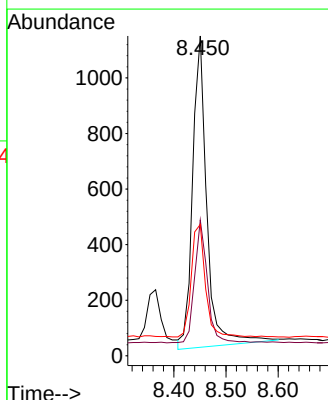
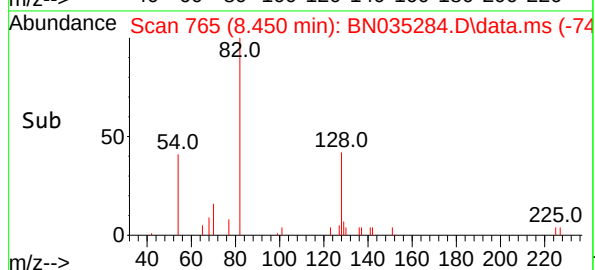
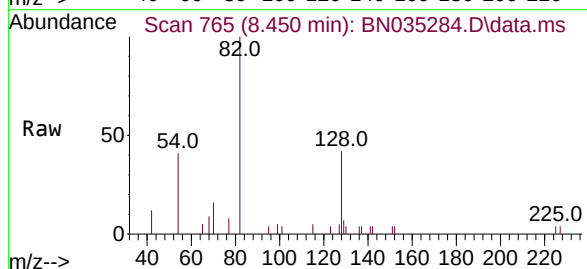
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Supervised By :mohammad ahmed 11/27/2024

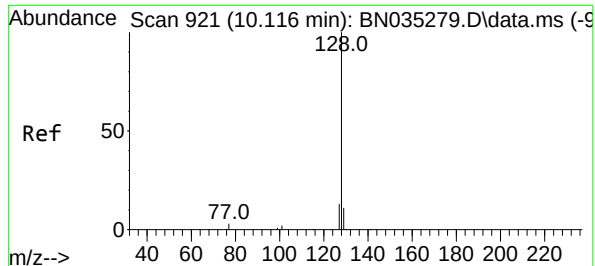


#8  
Nitrobenzene-d5  
Concen: 0.469 ng  
RT: 8.450 min Scan# 765  
Delta R.T. -0.000 min  
Lab File: BN035284.D  
Acq: 25 Nov 2024 14:29

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 82    | Resp: | 2129  |
| Ion      | Ratio | Lower | Upper |
| 82       | 100   |       |       |
| 128      | 42.5  | 33.0  | 49.4  |
| 54       | 41.1  | 33.3  | 49.9  |







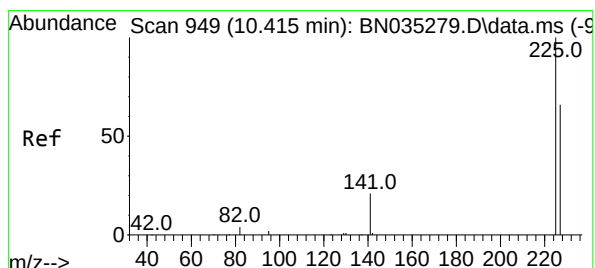
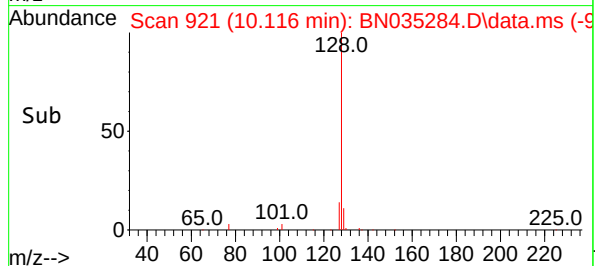
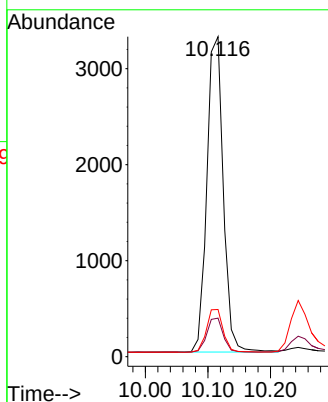
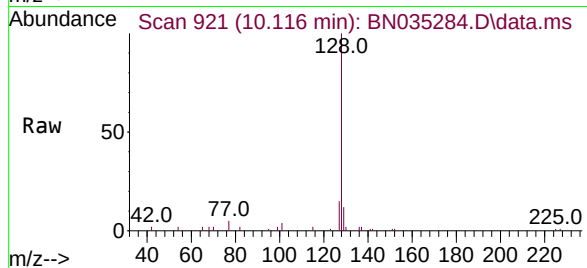
#9  
Naphthalene  
Concen: 0.385 ng  
RT: 10.116 min Scan# 921  
Delta R.T. -0.000 min  
Lab File: BN035284.D  
Acq: 25 Nov 2024 14:29

Instrument :  
BNA\_N  
ClientSampleId :  
ICVBN112524

Tgt Ion:128 Resp: 597  
Ion Ratio Lower Upper  
128 100  
129 12.0 9.6 14.4  
127 14.8 11.3 16.9

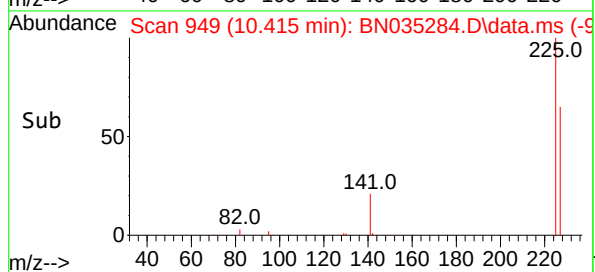
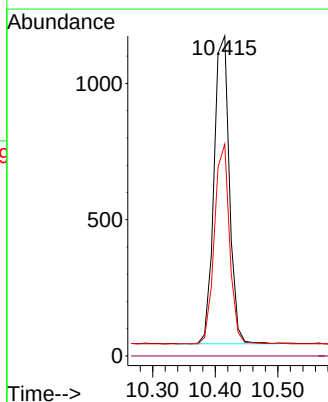
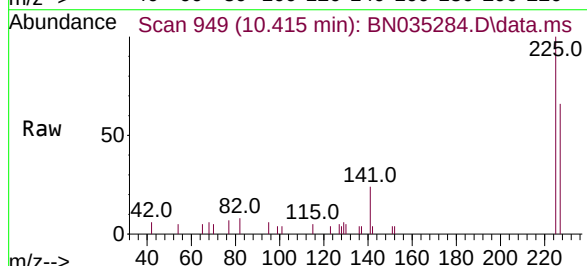
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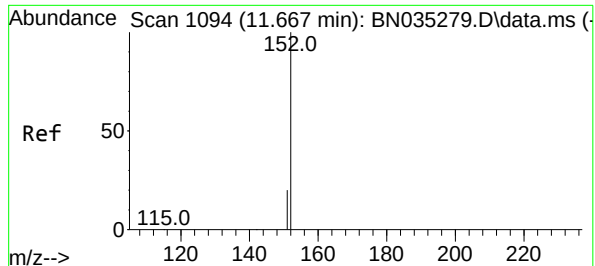
Reviewed By :Yogesh Patel 11/27/2024  
Supervised By :mohammad ahmed 11/27/2024



#10  
Hexachlorobutadiene  
Concen: 0.442 ng  
RT: 10.415 min Scan# 949  
Delta R.T. -0.000 min  
Lab File: BN035284.D  
Acq: 25 Nov 2024 14:29

Tgt Ion:225 Resp: 1929  
Ion Ratio Lower Upper  
225 100  
223 0.0 0.0 0.0  
227 63.7 51.3 76.9





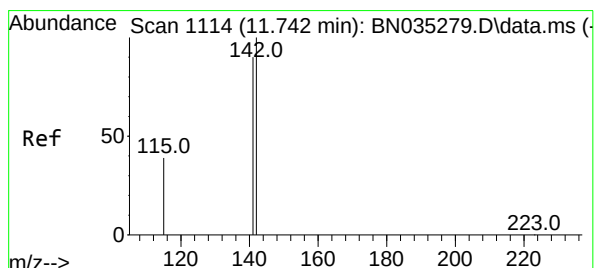
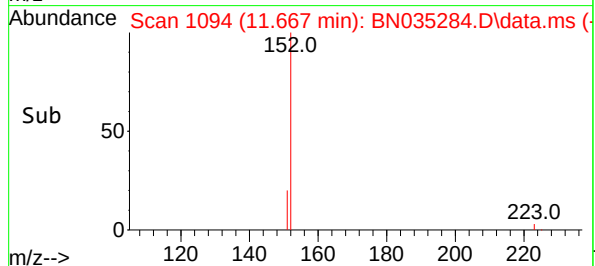
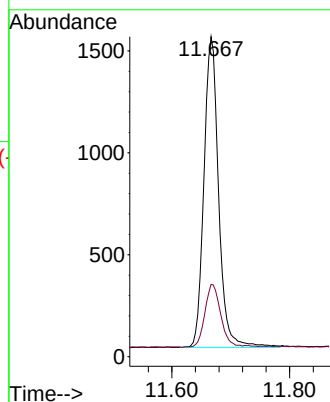
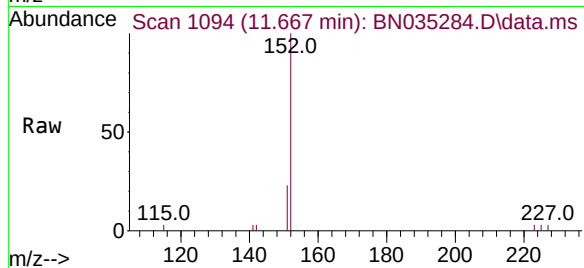
#11  
2-Methylnaphthalene-d10  
Concen: 0.337 ng  
RT: 11.667 min Scan# 1094  
Delta R.T. -0.000 min  
Lab File: BN035284.D  
Acq: 25 Nov 2024 14:29

Instrument :  
BNA\_N  
ClientSampleId :  
ICVBN112524

Tgt Ion:152 Resp: 2638  
Ion Ratio Lower Upper  
152 100  
151 21.9 17.2 25.8

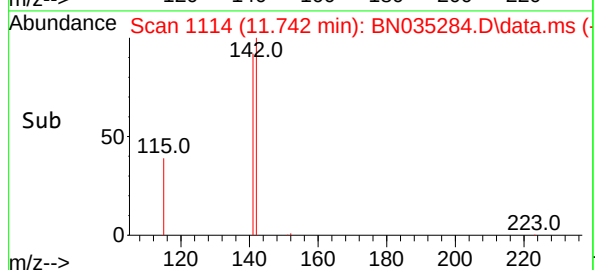
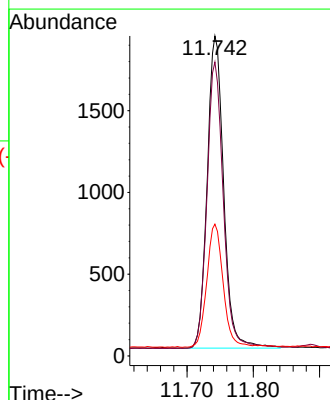
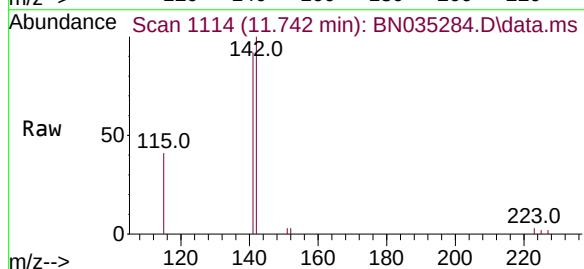
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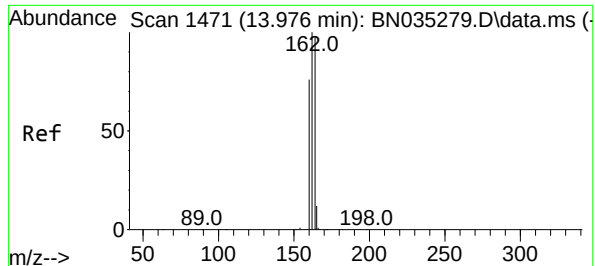
Reviewed By :Yogesh Patel 11/27/2024  
Supervised By :mohammad ahmed 11/27/2024



#12  
2-Methylnaphthalene  
Concen: 0.325 ng  
RT: 11.742 min Scan# 1114  
Delta R.T. 0.000 min  
Lab File: BN035284.D  
Acq: 25 Nov 2024 14:29

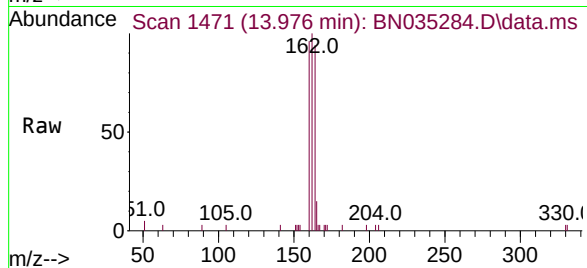
Tgt Ion:142 Resp: 3297  
Ion Ratio Lower Upper  
142 100  
141 91.9 71.8 107.8  
115 41.2 32.6 49.0





#13  
Acenaphthene-d10  
Concen: 0.400 ng  
RT: 13.976 min Scan# 1471  
Delta R.T. -0.000 min  
Lab File: BN035284.D  
Acq: 25 Nov 2024 14:29

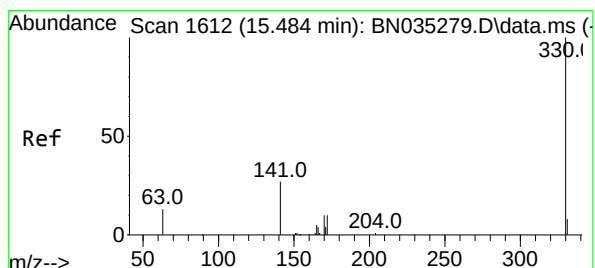
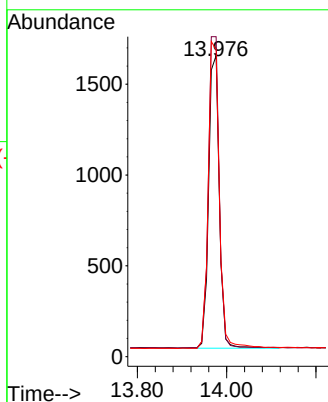
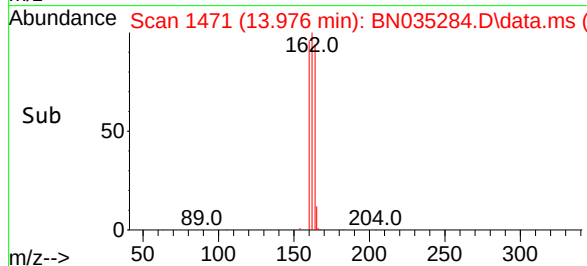
Instrument :  
BNA\_N  
ClientSampleId :  
ICVBN112524



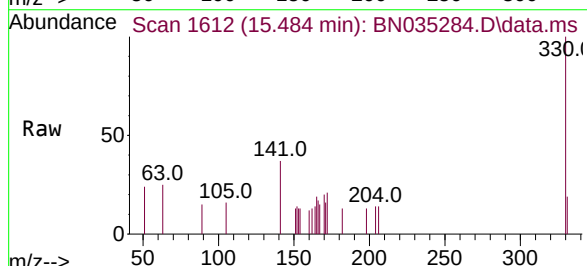
Tgt Ion:164 Resp: 2659  
Ion Ratio Lower Upper  
164 100  
162 106.3 82.0 123.0  
160 101.9 63.0 94.4

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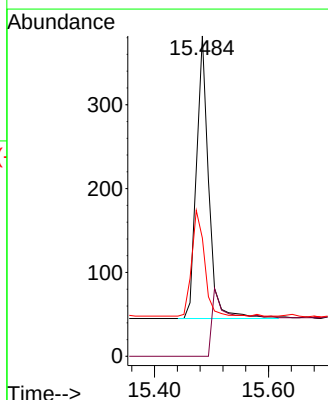
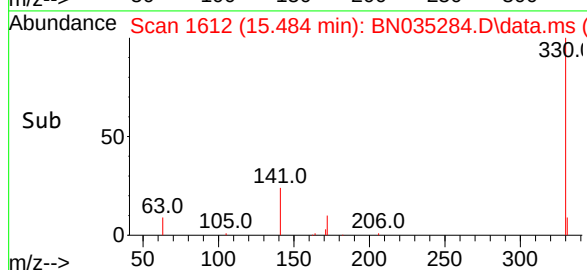
Reviewed By :Yogesh Patel 11/27/2024  
Supervised By :mohammad ahmed 11/27/2024

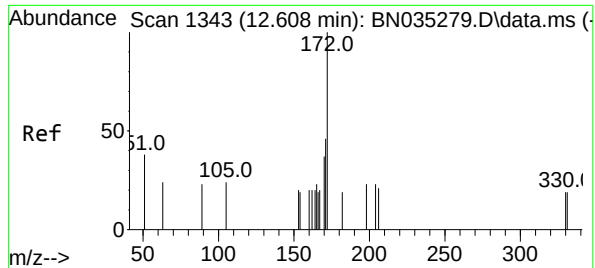


#14  
2,4,6-Tribromophenol  
Concen: 0.402 ng  
RT: 15.484 min Scan# 1612  
Delta R.T. -0.000 min  
Lab File: BN035284.D  
Acq: 25 Nov 2024 14:29



Tgt Ion:330 Resp: 546  
Ion Ratio Lower Upper  
330 100  
332 0.0 0.0 0.0  
141 37.7 32.4 48.6





#15

2-Fluorobiphenyl

Concen: 0.465 ng

RT: 12.608 min Scan# 1343

Delta R.T. -0.000 min

Lab File: BN035284.D

Acq: 25 Nov 2024 14:29

Instrument :

BNA\_N

ClientSampleId :

ICVBN112524

Tgt Ion:172 Resp: 68

Ion Ratio Lower Upper

172 100

171 49.8 36.6 55.0

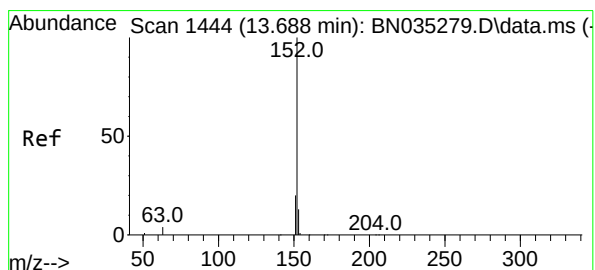
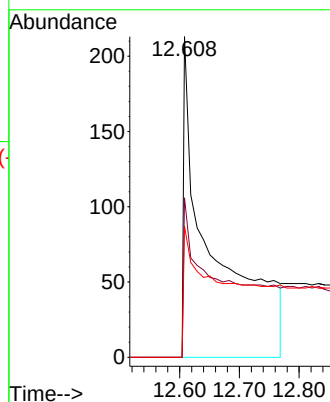
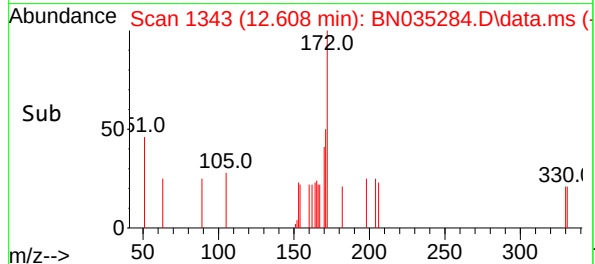
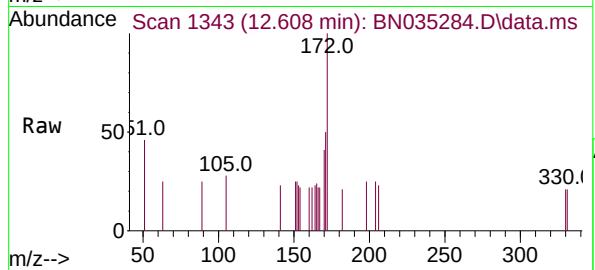
170 40.8 29.7 44.5

Manual Integrations

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Reviewed By :Yogesh Patel 11/27/2024

Supervised By :mohammad ahmed 11/27/2024



#16

Acenaphthylene

Concen: 0.387 ng

RT: 13.688 min Scan# 1444

Delta R.T. -0.000 min

Lab File: BN035284.D

Acq: 25 Nov 2024 14:29

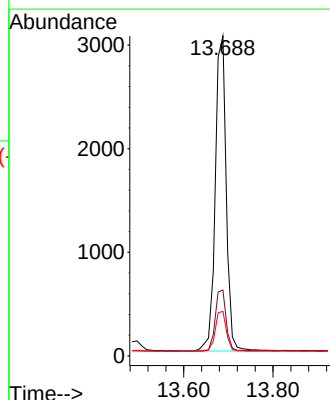
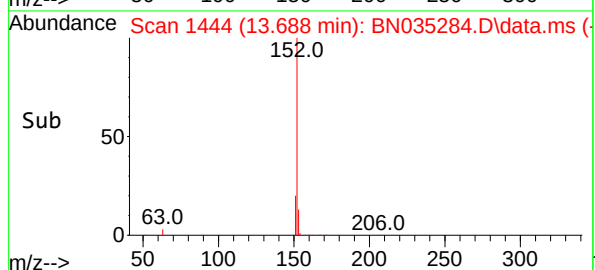
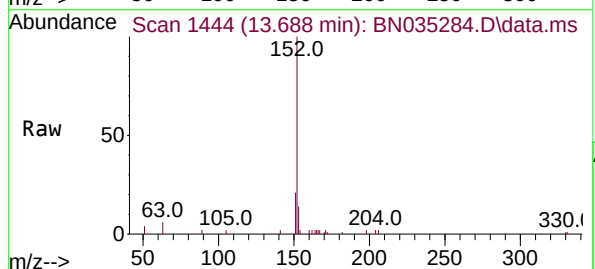
Tgt Ion:152 Resp: 5175

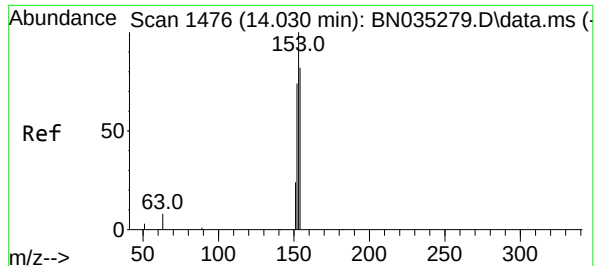
Ion Ratio Lower Upper

152 100

151 19.1 15.9 23.9

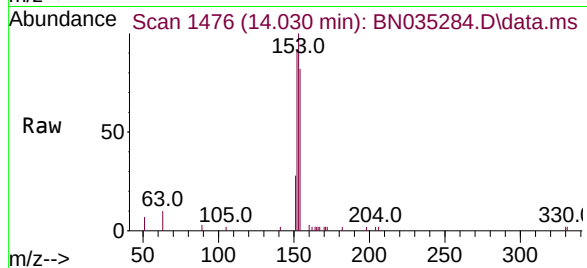
153 12.9 10.2 15.4





#17  
Acenaphthene  
Concen: 0.383 ng  
RT: 14.030 min Scan# 1476  
Delta R.T. -0.000 min  
Lab File: BN035284.D  
Acq: 25 Nov 2024 14:29

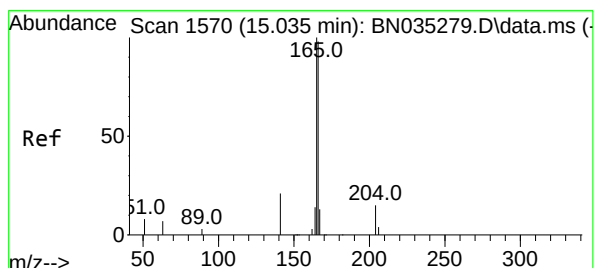
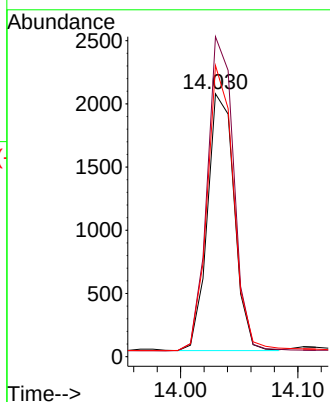
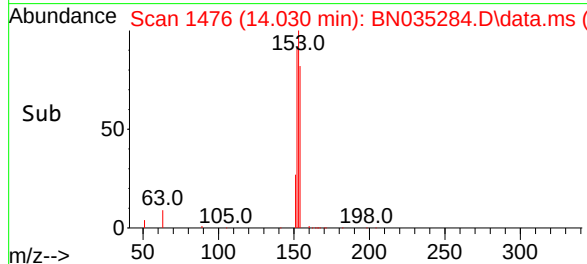
Instrument :  
BNA\_N  
ClientSampleId :  
ICVBN112524



Tgt Ion:154 Resp: 322  
Ion Ratio Lower Upper  
154 100  
153 121.8 96.1 144.1  
152 111.1 72.2 108.2

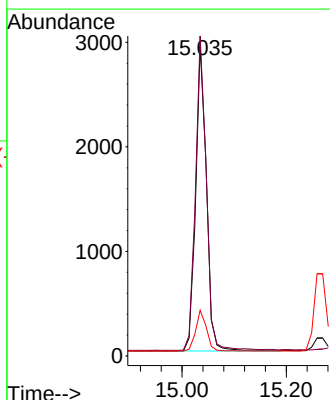
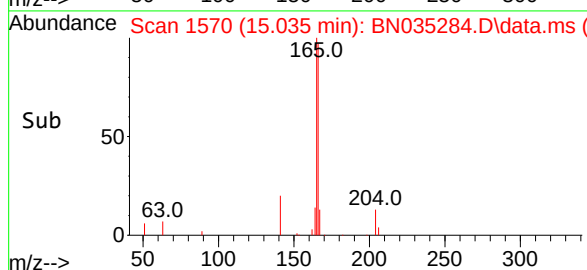
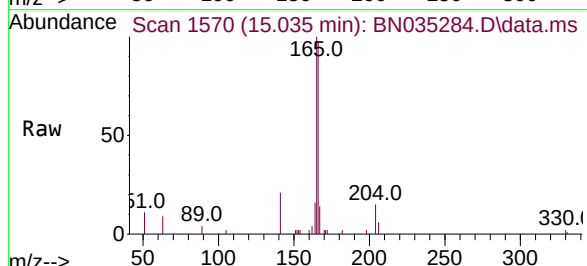
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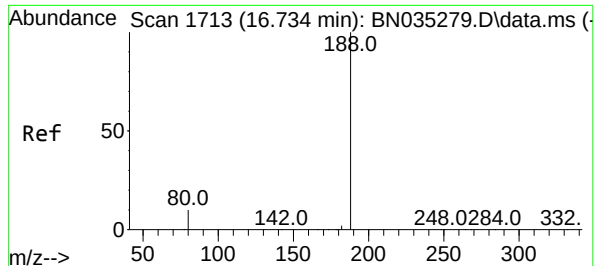
Reviewed By :Yogesh Patel 11/27/2024  
Supervised By :mohammad ahmed 11/27/2024



#18  
Fluorene  
Concen: 0.355 ng  
RT: 15.035 min Scan# 1570  
Delta R.T. -0.000 min  
Lab File: BN035284.D  
Acq: 25 Nov 2024 14:29

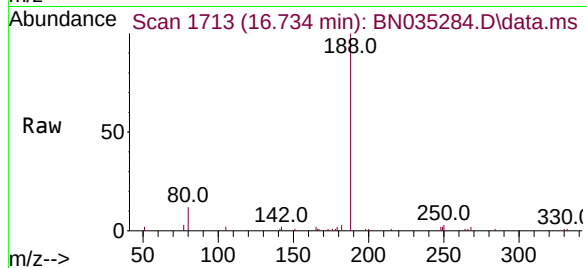
Tgt Ion:166 Resp: 4194  
Ion Ratio Lower Upper  
166 100  
165 104.2 81.2 121.8  
167 13.7 10.5 15.7





#19  
Phenanthrene-d10  
Concen: 0.400 ng  
RT: 16.734 min Scan# 1713  
Delta R.T. -0.000 min  
Lab File: BN035284.D  
Acq: 25 Nov 2024 14:29

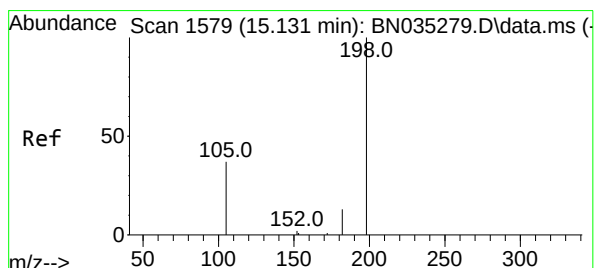
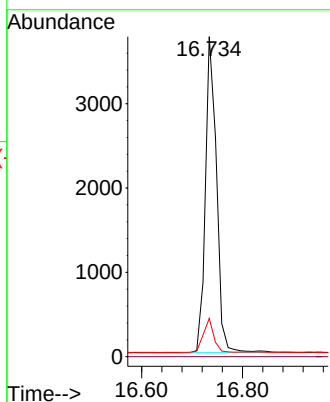
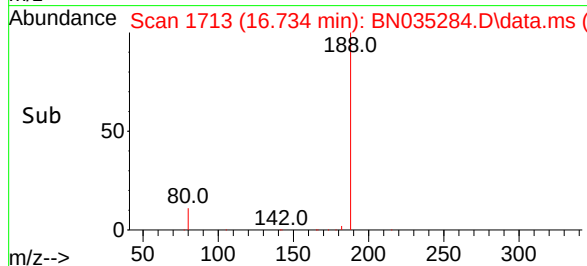
Instrument :  
BNA\_N  
ClientSampleId :  
ICVBN112524



Tgt Ion:188 Resp: 5748  
Ion Ratio Lower Upper  
188 100  
94 0.0 0.0 0.0  
80 11.9 8.9 13.3

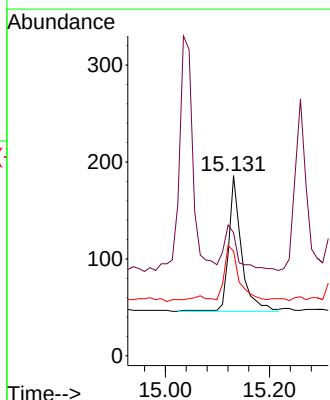
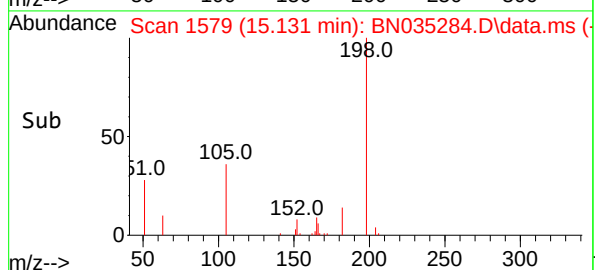
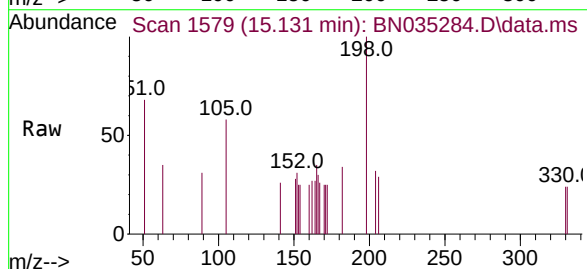
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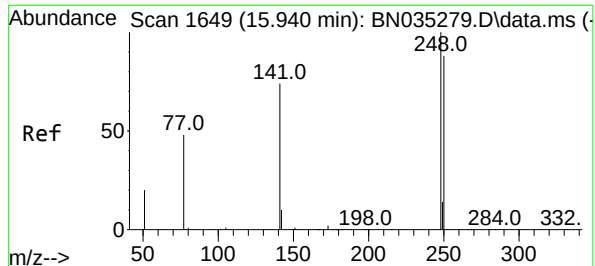
Reviewed By :Yogesh Patel 11/27/2024  
Supervised By :mohammad ahmed 11/27/2024



#20  
4,6-Dinitro-2-methylphenol  
Concen: 0.477 ng  
RT: 15.131 min Scan# 1579  
Delta R.T. -0.000 min  
Lab File: BN035284.D  
Acq: 25 Nov 2024 14:29

Tgt Ion:198 Resp: 239  
Ion Ratio Lower Upper  
198 100  
51 68.3 53.6 80.4  
105 58.1 47.4 71.2





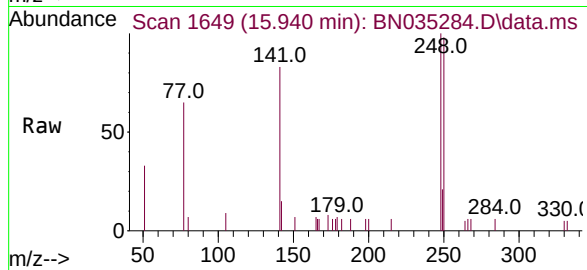
#21  
4-Bromophenyl-phenylether  
Concen: 0.364 ng  
RT: 15.940 min Scan# 1649  
Delta R.T. -0.000 min  
Lab File: BN035284.D  
Acq: 25 Nov 2024 14:29

Instrument :

BNA\_N

ClientSampleId :

ICVBN112524

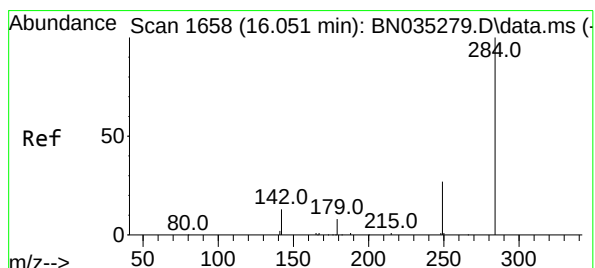
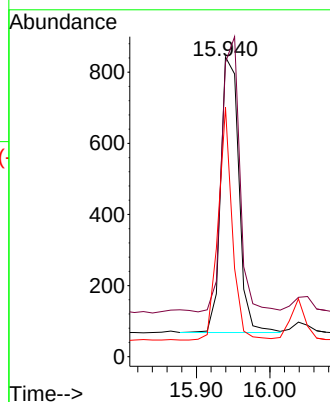
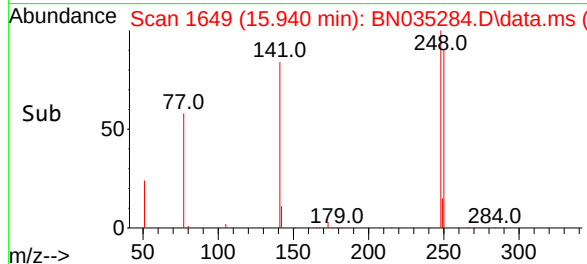


Tgt Ion:248 Resp: 1328  
Ion Ratio Lower Upper  
248 100  
250 98.1 74.8 112.2  
141 83.2 59.0 88.4

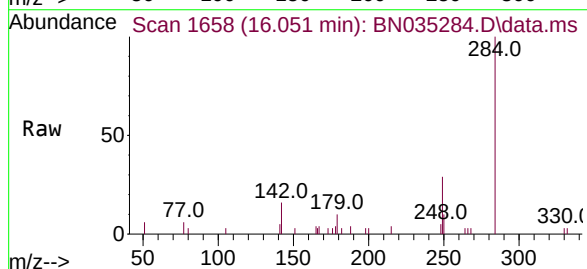
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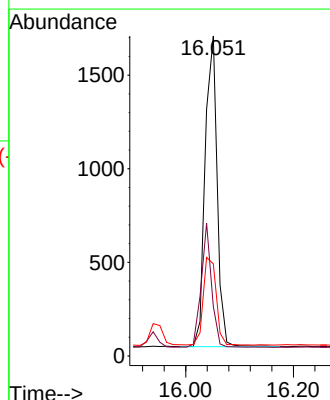
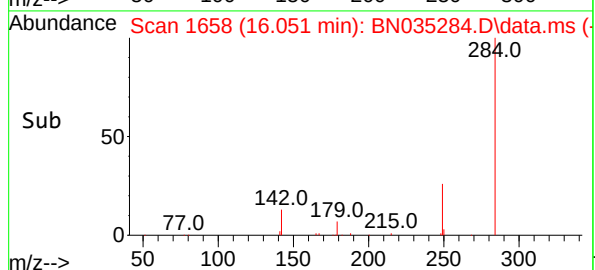
Reviewed By :Yogesh Patel 11/27/2024  
Supervised By :mohammad ahmed 11/27/2024

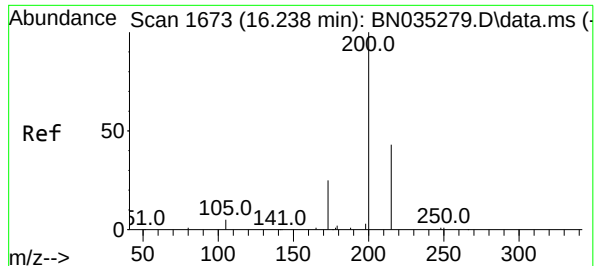


#22  
Hexachlorobenzene  
Concen: 0.491 ng  
RT: 16.051 min Scan# 1658  
Delta R.T. -0.000 min  
Lab File: BN035284.D  
Acq: 25 Nov 2024 14:29



Tgt Ion:284 Resp: 2564  
Ion Ratio Lower Upper  
284 100  
142 35.1 28.7 43.1  
249 30.5 25.4 38.0





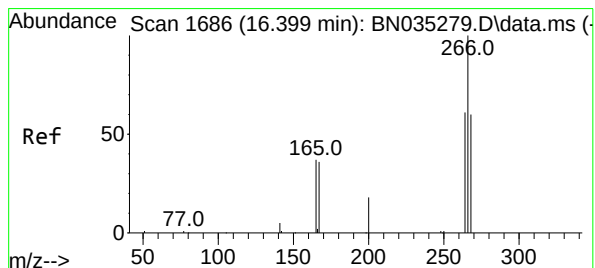
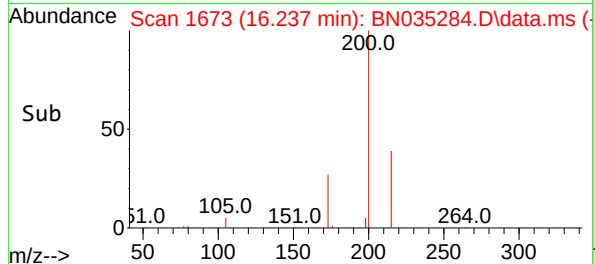
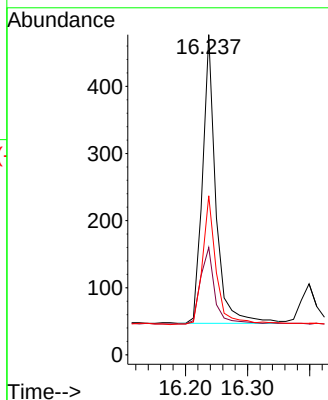
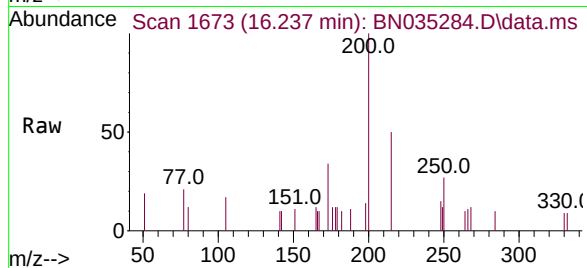
#23  
Atrazine  
Concen: 0.419 ng  
RT: 16.237 min Scan# 1673  
Delta R.T. -0.000 min  
Lab File: BN035284.D  
Acq: 25 Nov 2024 14:29

Instrument :  
BNA\_N  
ClientSampleId :  
ICVBN112524

Tgt Ion:200 Resp: 64.0  
Ion Ratio Lower Upper  
200 100  
173 33.5 25.8 38.8  
215 49.7 38.6 58.0

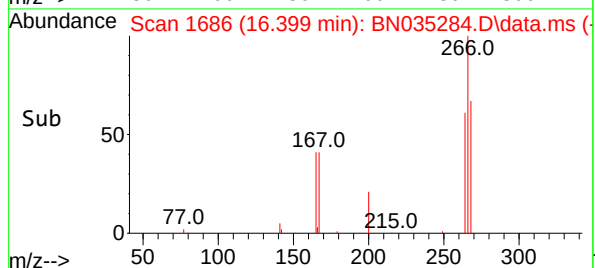
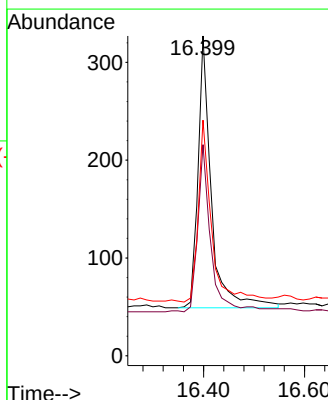
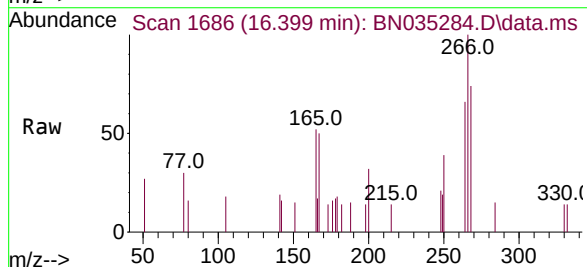
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Reviewed By :Yogesh Patel 11/27/2024  
Supervised By :mohammad ahmed 11/27/2024

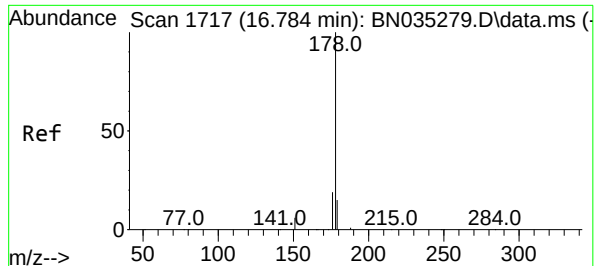


#24  
Pentachlorophenol  
Concen: 0.407 ng  
RT: 16.399 min Scan# 1686  
Delta R.T. -0.000 min  
Lab File: BN035284.D  
Acq: 25 Nov 2024 14:29

Tgt Ion:266 Resp: 510  
Ion Ratio Lower Upper  
266 100  
264 59.8 49.3 73.9  
268 66.9 48.6 73.0







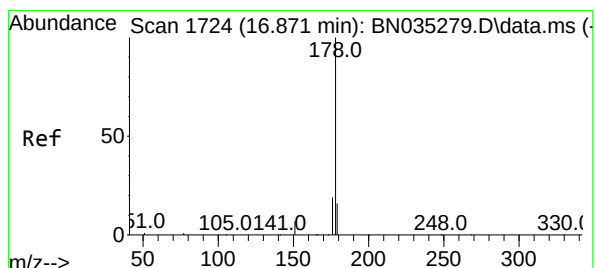
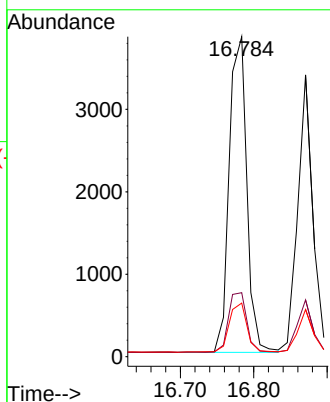
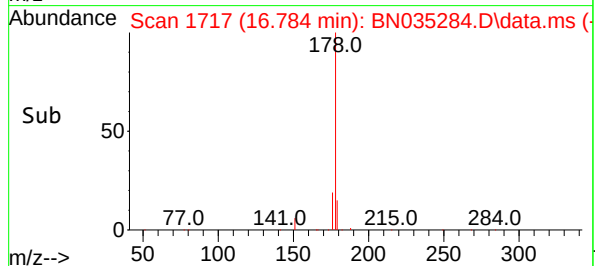
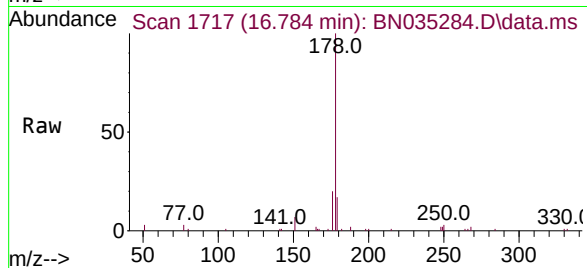
#25  
Phenanthrene  
Concen: 0.362 ng  
RT: 16.784 min Scan# 1717  
Delta R.T. -0.000 min  
Lab File: BN035284.D  
Acq: 25 Nov 2024 14:29

Instrument :  
BNA\_N  
ClientSampleId :  
ICVBN112524

Tgt Ion:178 Resp: 6385  
Ion Ratio Lower Upper  
178 100  
176 19.5 15.4 23.0  
179 15.8 12.6 18.8

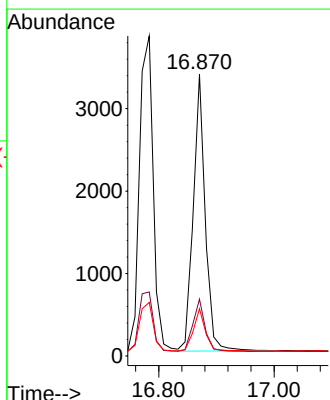
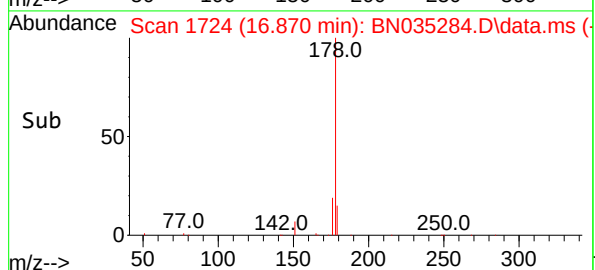
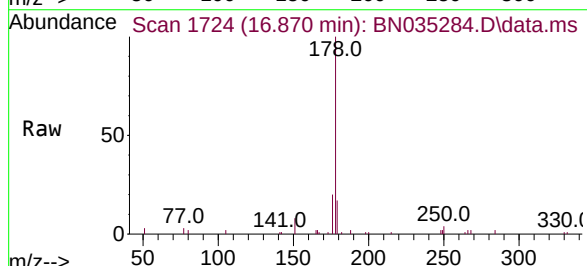
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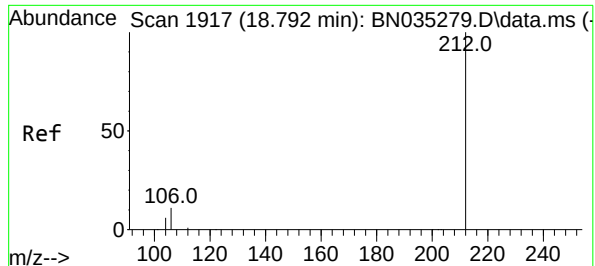
Reviewed By :Yogesh Patel 11/27/2024  
Supervised By :mohammad ahmed 11/27/2024



#26  
Anthracene  
Concen: 0.320 ng  
RT: 16.870 min Scan# 1724  
Delta R.T. -0.000 min  
Lab File: BN035284.D  
Acq: 25 Nov 2024 14:29

Tgt Ion:178 Resp: 4852  
Ion Ratio Lower Upper  
178 100  
176 19.1 15.0 22.4  
179 15.5 12.4 18.6





#27

Fluoranthene-d10

Concen: 0.343 ng m

RT: 18.792 min Scan# 1917

Delta R.T. -0.000 min

Lab File: BN035284.D

Acq: 25 Nov 2024 14:29

Instrument :

BNA\_N

ClientSampleId :

ICVBN112524

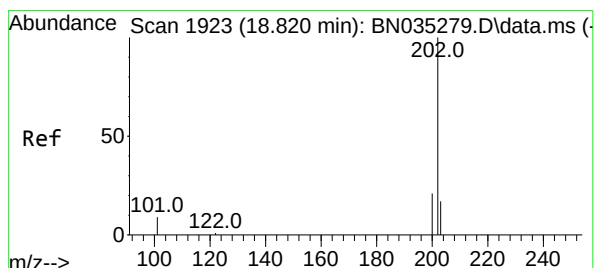
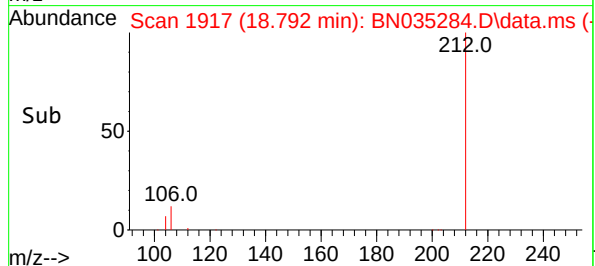
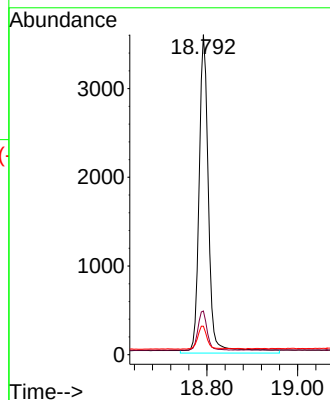
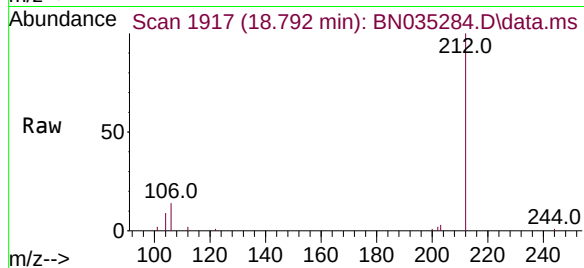
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 212   | Resp: | 5270  |
| Ion      | Ratio | Lower | Upper |
| 212      | 100   |       |       |
| 106      | 11.8  | 9.8   | 14.8  |
| 104      | 7.3   | 5.6   | 8.4   |

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Supervised By :mohammad ahmed 11/27/2024



#28

Fluoranthene

Concen: 0.300 ng

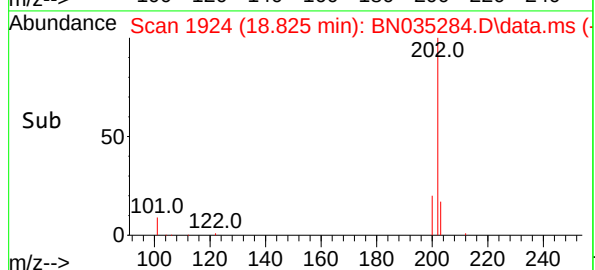
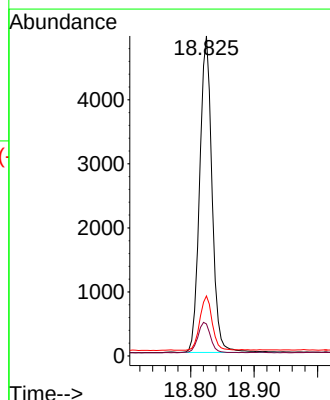
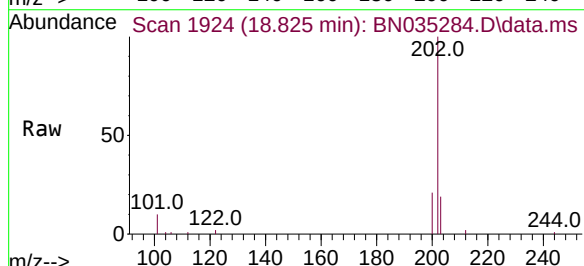
RT: 18.825 min Scan# 1924

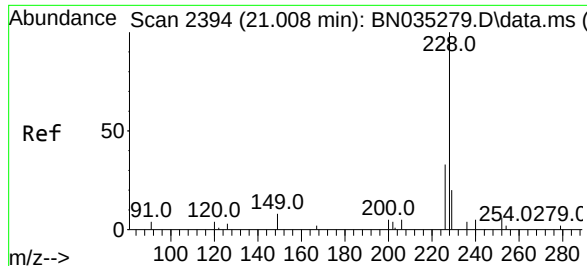
Delta R.T. 0.005 min

Lab File: BN035284.D

Acq: 25 Nov 2024 14:29

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 202   | Resp: | 6686  |
| Ion      | Ratio | Lower | Upper |
| 202      | 100   |       |       |
| 101      | 9.8   | 7.6   | 11.4  |
| 203      | 17.1  | 13.8  | 20.8  |





#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.008 min Scan# 21

Delta R.T. -0.000 min

Lab File: BN035284.D

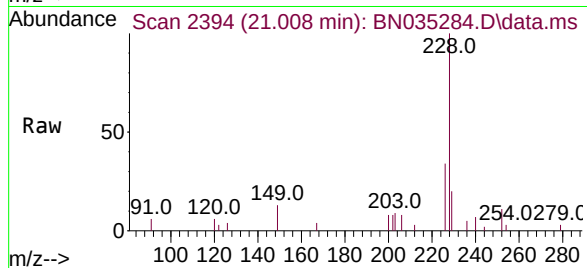
Acq: 25 Nov 2024 14:29

Instrument :

BNA\_N

ClientSampleId :

ICVBN112524



Tgt Ion:240 Resp: 61

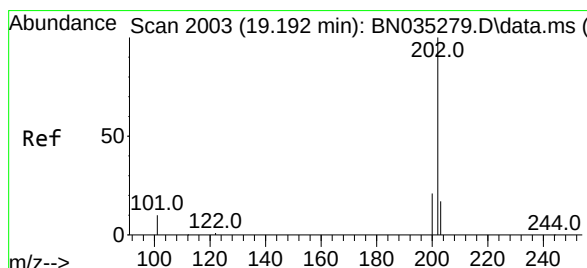
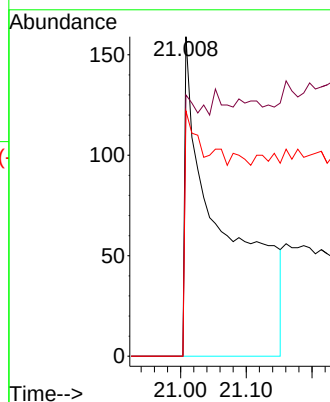
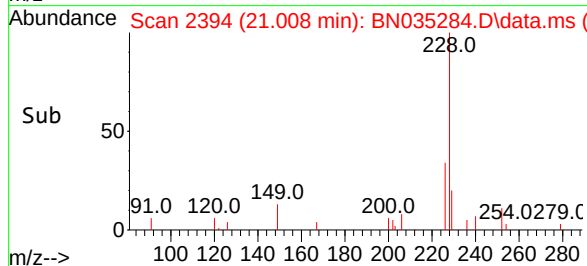
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 240 | 100   |       |       |
| 120 | 81.8  | 54.9  | 82.3  |
| 236 | 76.7  | 54.0  | 81.0  |

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Supervised By :mohammad ahmed 11/27/2024



#30

Pyrene

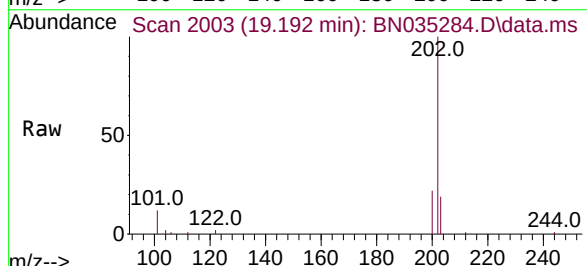
Concen: 0.294 ng

RT: 19.192 min Scan# 2003

Delta R.T. -0.000 min

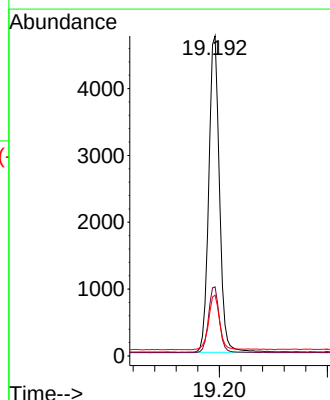
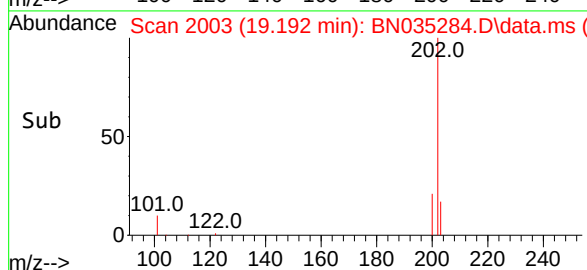
Lab File: BN035284.D

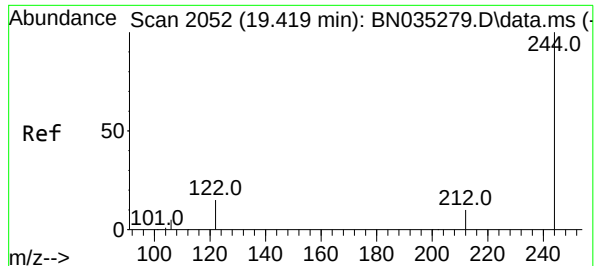
Acq: 25 Nov 2024 14:29



Tgt Ion:202 Resp: 6525

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 202 | 100   |       |       |
| 200 | 21.1  | 16.8  | 25.2  |
| 203 | 17.9  | 14.4  | 21.6  |





#31  
Terphenyl-d14  
Concen: 0.282 ng  
RT: 19.419 min Scan# 2052  
Delta R.T. 0.000 min  
Lab File: BN035284.D  
Acq: 25 Nov 2024 14:29

Instrument :

BNA\_N

ClientSampleId :

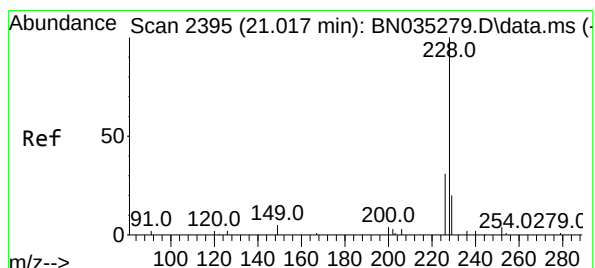
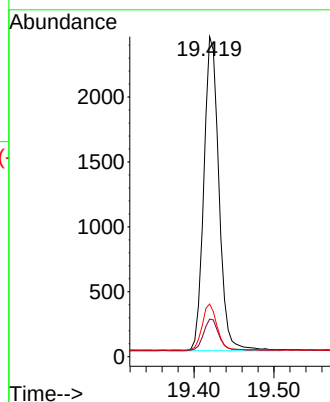
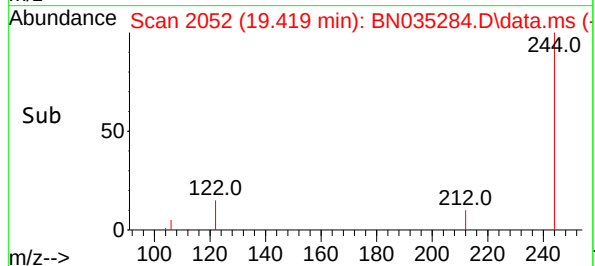
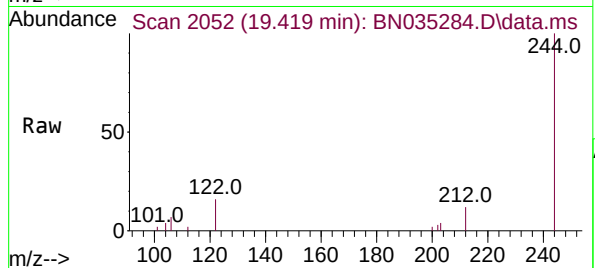
ICVBN112524

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 244     | 100   |       |       |
| 212     | 11.8  | 9.4   | 14.0  |
| 122     | 16.4  | 13.0  | 19.4  |

Manual Integrations

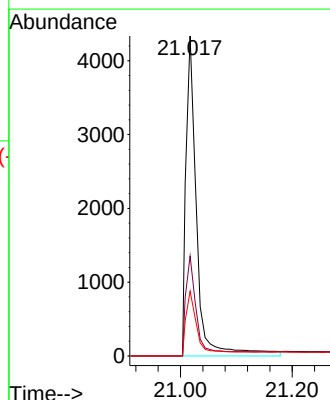
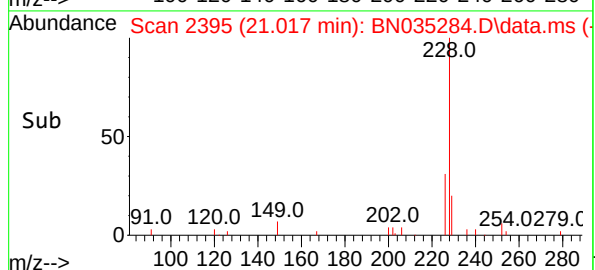
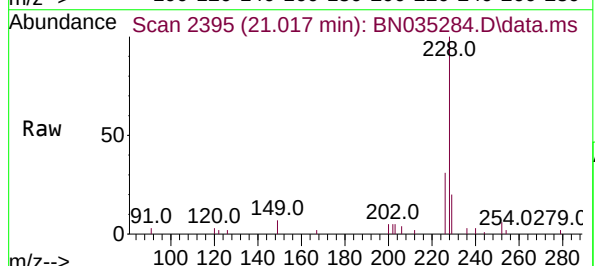
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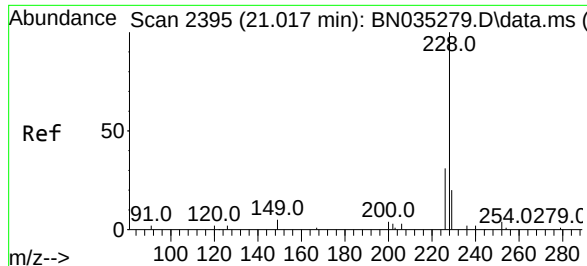
Reviewed By :Yogesh Patel 11/27/2024  
Supervised By :mohammad ahmed 11/27/2024



#32  
Benzo(a)anthracene  
Concen: 0.273 ng  
RT: 21.017 min Scan# 2395  
Delta R.T. 0.000 min  
Lab File: BN035284.D  
Acq: 25 Nov 2024 14:29

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 228     | 100   |       |       |
| 226     | 31.3  | 24.7  | 37.1  |
| 229     | 20.3  | 16.2  | 24.2  |





#33

Chrysene

Concen: 0.273 ng

RT: 21.017 min Scan# 2395

Delta R.T. -0.000 min

Lab File: BN035284.D

Acq: 25 Nov 2024 14:29

Instrument :

BNA\_N

ClientSampleId :

ICVBN112524

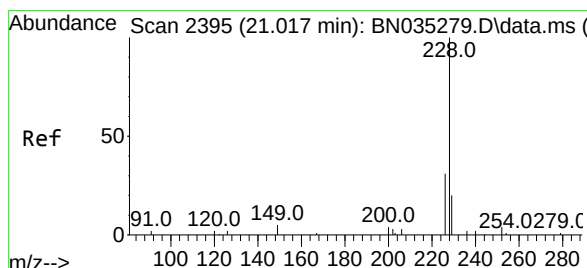
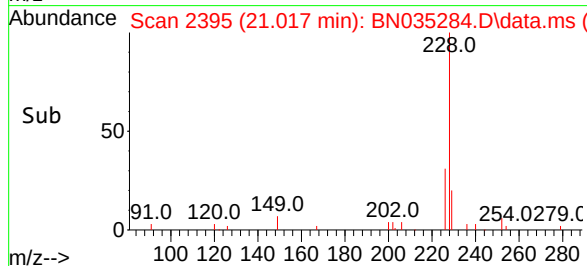
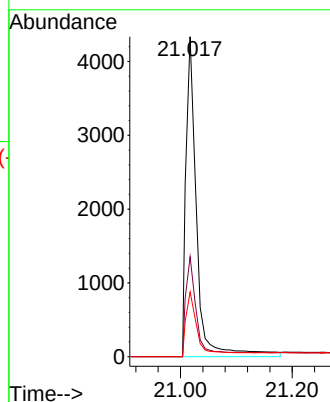
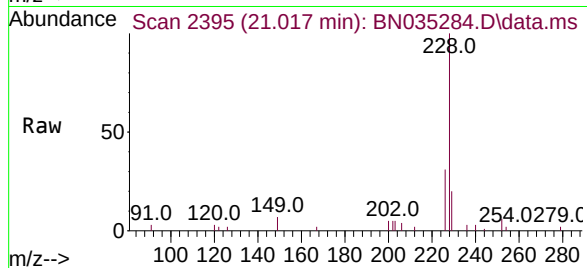
|           |       |       |      |
|-----------|-------|-------|------|
| Tgt Ion:  | 228   | Resp: | 579  |
| Ion Ratio | Lower | Upper |      |
| 228       | 100   |       |      |
| 226       | 31.3  | 24.7  | 37.1 |
| 229       | 20.3  | 16.2  | 24.2 |

## Manual Integrations

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Reviewed By :Yogesh Patel 11/27/2024

Supervised By :mohammad ahmed 11/27/2024



#34

Bis(2-ethylhexyl)phthalate

Concen: 0.041 ng

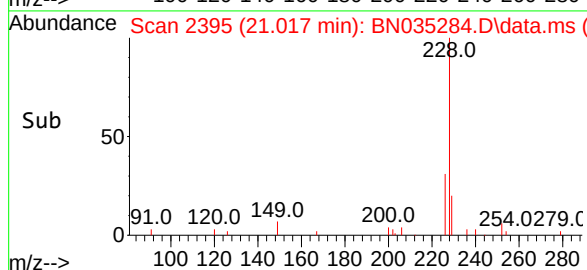
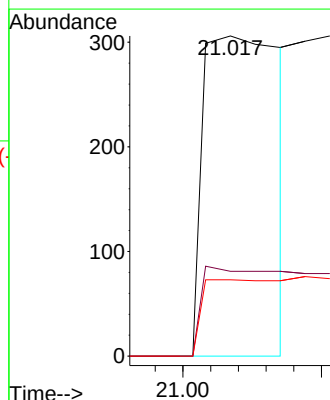
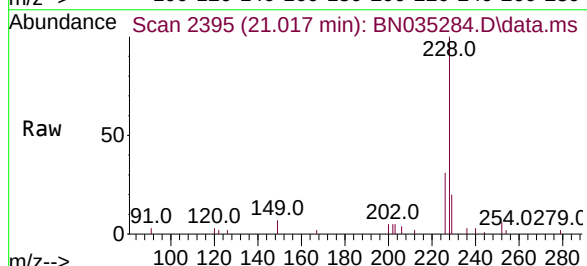
RT: 21.017 min Scan# 2395

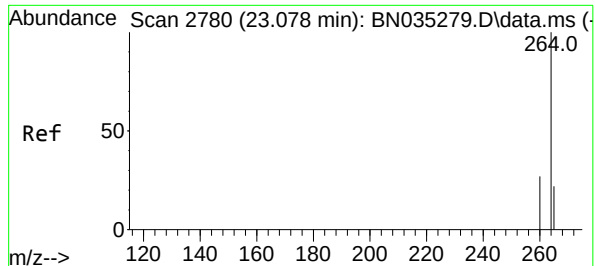
Delta R.T. 0.000 min

Lab File: BN035284.D

Acq: 25 Nov 2024 14:29

|           |       |       |      |
|-----------|-------|-------|------|
| Tgt Ion:  | 149   | Resp: | 520  |
| Ion Ratio | Lower | Upper |      |
| 149       | 100   |       |      |
| 167       | 35.4  | 0.0   | 0.0# |
| 279       | 17.1  | 13.0  | 19.6 |





#35

Perylene-d12

Concen: 0.400 ng

RT: 23.081 min Scan# 21

Delta R.T. 0.003 min

Lab File: BN035284.D

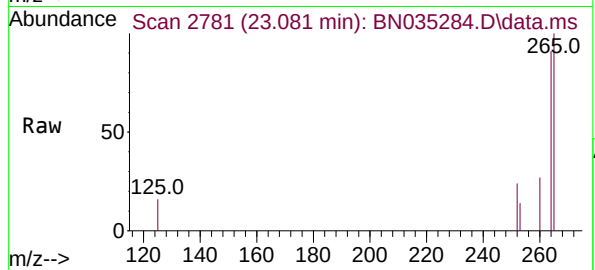
Acq: 25 Nov 2024 14:29

Instrument :

BNA\_N

ClientSampleId :

ICVBN112524



Tgt Ion:264 Resp: 3470

Ion Ratio Lower Upper

264 100

260 29.0 22.3 33.5

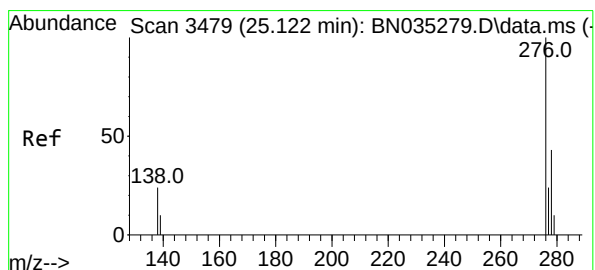
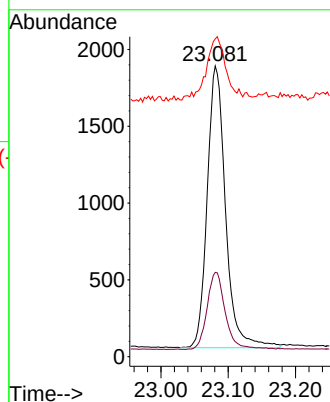
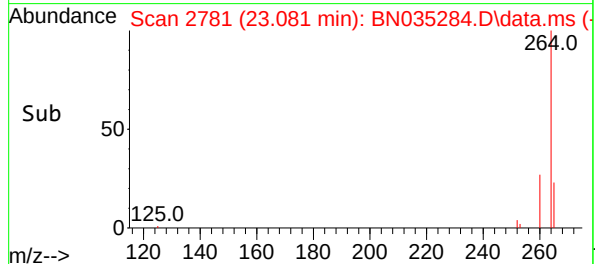
265 109.3 68.6 103.0

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 11/27/2024

Supervised By :mohammad ahmed 11/27/2024



#36

Indeno(1,2,3-cd)pyrene

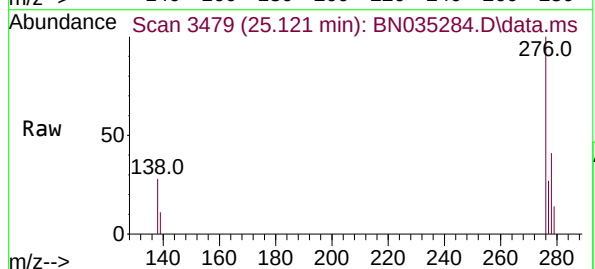
Concen: 0.398 ng

RT: 25.121 min Scan# 3479

Delta R.T. -0.000 min

Lab File: BN035284.D

Acq: 25 Nov 2024 14:29



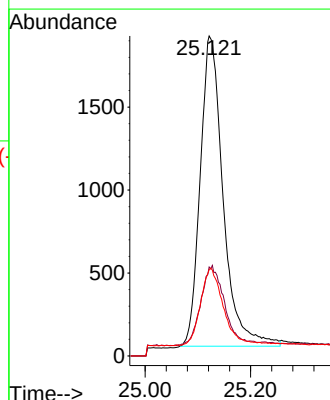
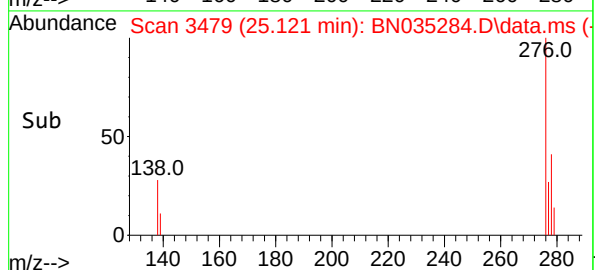
Tgt Ion:276 Resp: 5652

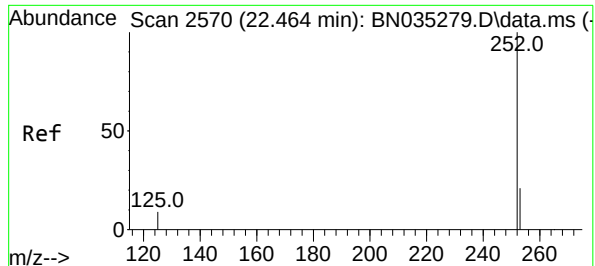
Ion Ratio Lower Upper

276 100

138 23.1 18.8 28.2

277 23.0 18.2 27.4





#37

Benzo(b)fluoranthene

Concen: 0.355 ng

RT: 22.464 min Scan# 21

Delta R.T. -0.000 min

Lab File: BN035284.D

Acq: 25 Nov 2024 14:29

Instrument :

BNA\_N

ClientSampleId :

ICVBN112524

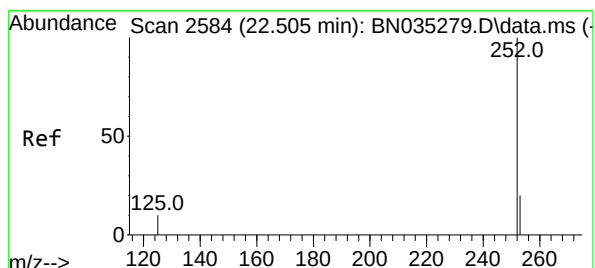
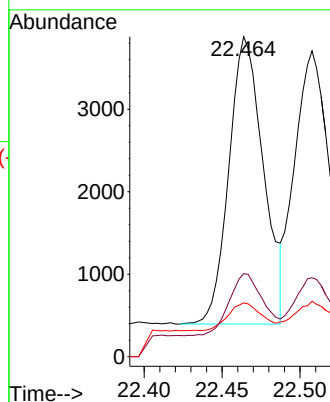
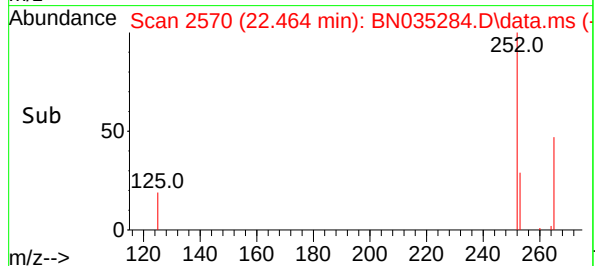
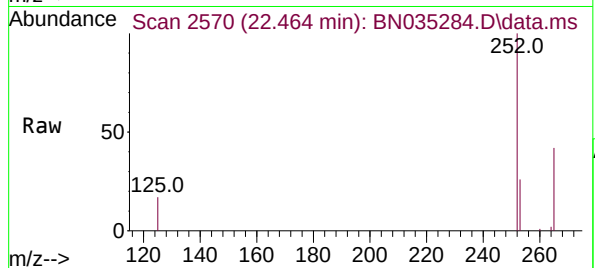
|             |       |             |
|-------------|-------|-------------|
| Tgt Ion:252 | Resp: | 5358        |
| Ion         | Ratio | Lower Upper |
| 252         | 100   |             |
| 253         | 26.0  | 20.2 30.2   |
| 125         | 16.8  | 12.0 18.0   |

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 11/27/2024

Supervised By :mohammad ahmed 11/27/2024



#38

Benzo(k)fluoranthene

Concen: 0.348 ng

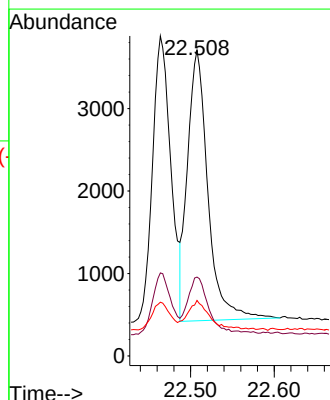
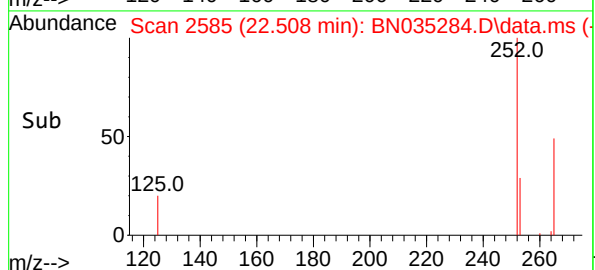
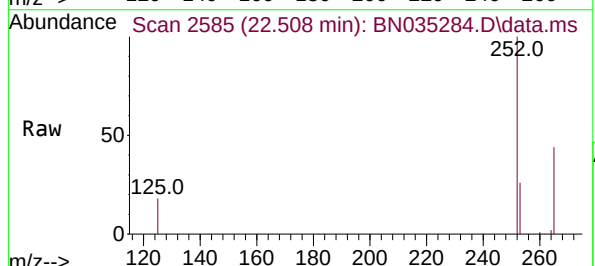
RT: 22.508 min Scan# 2585

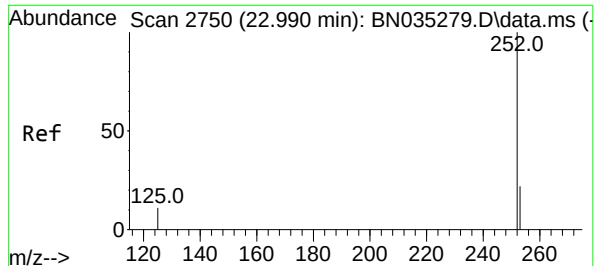
Delta R.T. 0.003 min

Lab File: BN035284.D

Acq: 25 Nov 2024 14:29

|             |       |             |
|-------------|-------|-------------|
| Tgt Ion:252 | Resp: | 5559        |
| Ion         | Ratio | Lower Upper |
| 252         | 100   |             |
| 253         | 25.8  | 20.1 30.1   |
| 125         | 18.1  | 12.7 19.1   |





#39

Benzo(a)pyrene

Concen: 0.361 ng

RT: 22.990 min Scan# 21

Delta R.T. -0.000 min

Lab File: BN035284.D

Acq: 25 Nov 2024 14:29

Instrument :

BNA\_N

ClientSampleId :

ICVBN112524

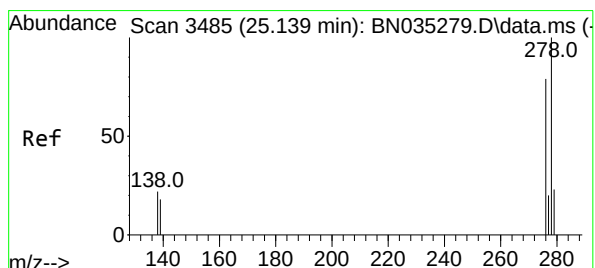
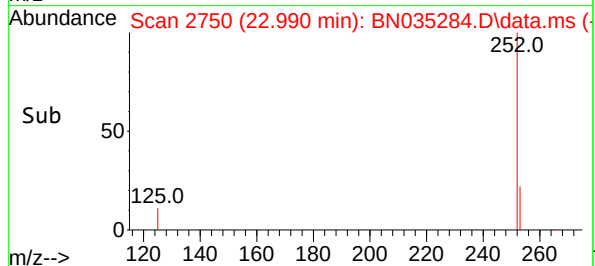
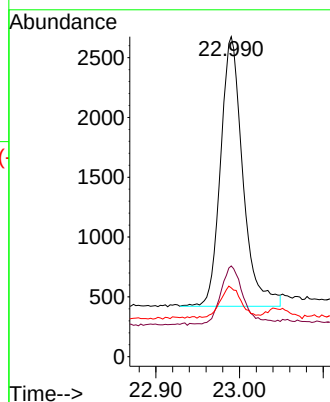
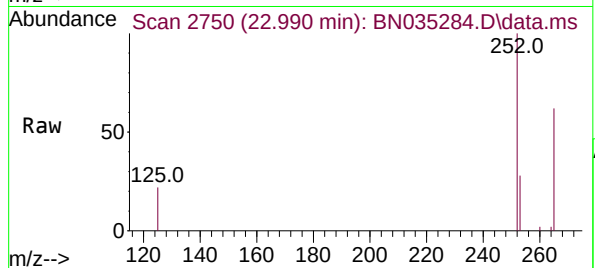
|           |       |       |      |
|-----------|-------|-------|------|
| Tgt Ion:  | 252   | Resp: | 416  |
| Ion Ratio | Lower | Upper |      |
| 252       | 100   |       |      |
| 253       | 28.3  | 22.3  | 33.5 |
| 125       | 21.5  | 15.3  | 22.9 |

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 11/27/2024

Supervised By :mohammad ahmed 11/27/2024



#40

Dibenzo(a,h)anthracene

Concen: 0.389 ng

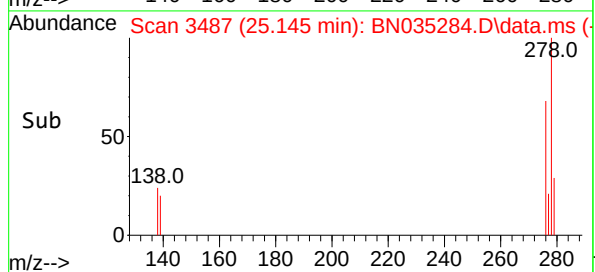
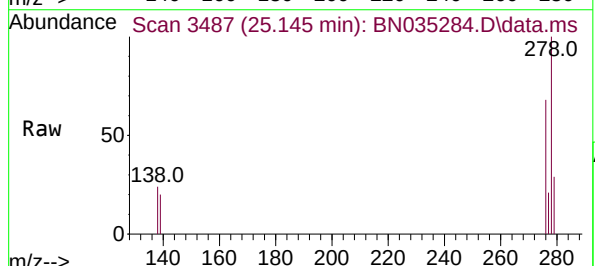
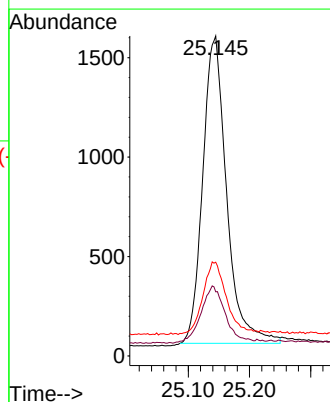
RT: 25.145 min Scan# 3487

Delta R.T. 0.006 min

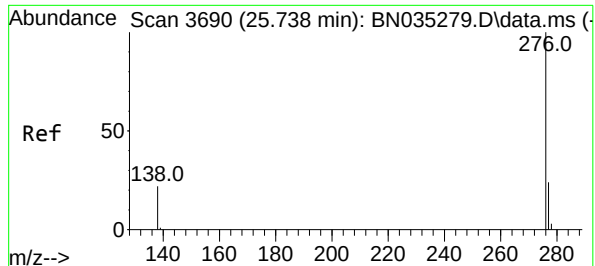
Lab File: BN035284.D

Acq: 25 Nov 2024 14:29

|           |       |       |      |
|-----------|-------|-------|------|
| Tgt Ion:  | 278   | Resp: | 4182 |
| Ion Ratio | Lower | Upper |      |
| 278       | 100   |       |      |
| 139       | 20.1  | 17.0  | 25.6 |
| 279       | 29.3  | 23.0  | 34.4 |







#41

Benzo(g,h,i)perylene

Concen: 0.412 ng

RT: 25.738 min Scan# 30

Delta R.T. -0.000 min

Lab File: BN035284.D

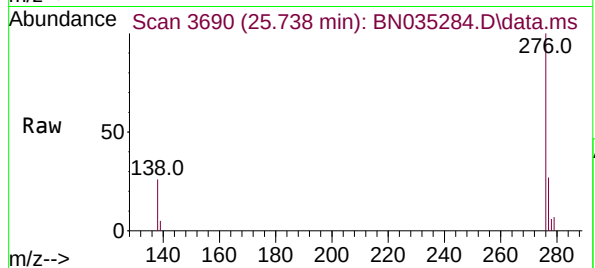
Acq: 25 Nov 2024 14:29

Instrument :

BNA\_N

ClientSampleId :

ICVBN112524



Tgt Ion:276 Resp: 512

Ion Ratio Lower Upper

276 100

277 26.8 21.1 31.7

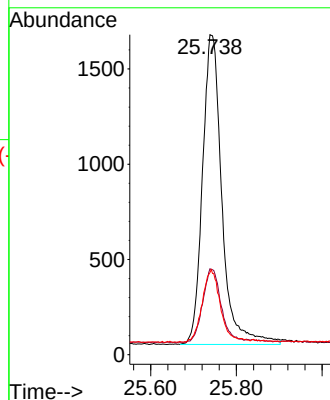
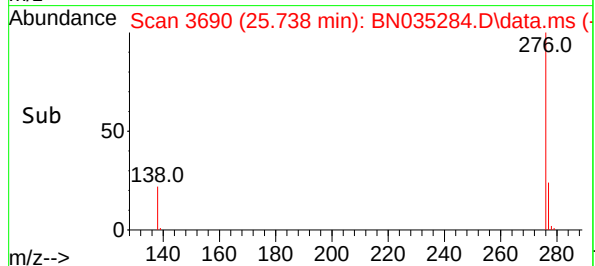
138 25.7 19.8 29.8

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 11/27/2024

Supervised By :mohammad ahmed 11/27/2024



Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN112524\  
 Data File : BN035284.D  
 Acq On : 25 Nov 2024 14:29  
 Operator : RC/JU  
 Sample : SSTDICV0.4  
 Misc :  
 ALS Vial : 59 Sample Multiplier: 1

Instrument :  
 BNA\_N  
 ClientSampleId :  
 ICVBN112524

Quant Time: Nov 25 22:35:44 2024  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\8270-SIM-BN112524.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Mon Nov 25 14:32:52 2024  
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min  
 Max. RRF Dev : 25% Max. Rel. Area : 150%

|         | Compound                   | AvgRF  | CCRF   | %Dev  | Area% | Dev(min) |
|---------|----------------------------|--------|--------|-------|-------|----------|
| 1 I     | 1,4-Dichlorobenzene-d4     | 1.000  | 1.000  | 0.0   | 115   | 0.00     |
| 2       | 1,4-Dioxane                | 0.288  | 0.274  | 4.9   | 109   | 0.00     |
| 3       | n-Nitrosodimethylamine     | 0.298  | 0.321  | -7.7  | 130   | 0.00     |
| 4 S     | 2-Fluorophenol             | 0.756  | 0.680  | 10.1  | 99    | 0.00     |
| 5 S     | Phenol-d6                  | 1.056  | 0.919  | 13.0  | 95    | 0.00     |
| 6       | bis(2-Chloroethyl)ether    | 0.889  | 0.846  | 4.8   | 108   | 0.00     |
| 7 I     | Naphthalene-d8             | 1.000  | 1.000  | 0.0   | 105   | 0.00     |
| 8 S     | Nitrobenzene-d5            | 0.324  | 0.381  | -17.6 | 115   | 0.00     |
| 9       | Naphthalene                | 1.110  | 1.068  | 3.8   | 103   | 0.00     |
| 10      | Hexachlorobutadiene        | 0.312  | 0.345  | -10.6 | 116   | 0.00     |
| 11 SURR | 2-Methylnaphthalene-d10    | 0.560  | 0.471  | 15.9  | 92    | 0.00     |
| 12      | 2-Methylnaphthalene        | 0.726  | 0.589  | 18.9  | 91    | 0.00     |
| 13 I    | Acenaphthene-d10           | 1.000  | 1.000  | 0.0   | 90    | 0.00     |
| 14 S    | 2,4,6-Tribromophenol       | 0.204  | 0.205  | -0.5  | 103   | 0.00     |
| 15 S    | 2-Fluorobiphenyl           | 0.221  | 0.257  | -16.3 | 95    | 0.00     |
| 16      | Acenaphthylene             | 2.013  | 1.946  | 3.3   | 93    | 0.00     |
| 17      | Acenaphthene               | 1.267  | 1.214  | 4.2   | 93    | 0.00     |
| 18      | Fluorene                   | 1.777  | 1.577  | 11.3  | 87    | 0.00     |
| 19 I    | Phenanthrene-d10           | 1.000  | 1.000  | 0.0   | 83    | 0.00     |
| 20      | 4,6-Dinitro-2-methylphenol | 0.041  | 0.042  | -2.4  | 103   | 0.00     |
| 21      | 4-Bromophenyl-phenylether  | 0.254  | 0.231  | 9.1   | 82    | 0.00     |
| 22      | Hexachlorobenzene          | 0.363  | 0.446  | -22.9 | 106   | 0.00     |
| 23      | Atrazine                   | 0.107  | 0.112  | -4.7  | 93    | 0.00     |
| 24      | Pentachlorophenol          | 0.087  | 0.089  | -2.3  | 94    | 0.00     |
| 25      | Phenanthrene               | 1.229  | 1.111  | 9.6   | 82    | 0.00     |
| 26      | Anthracene                 | 1.055  | 0.844  | 20.0  | 77    | 0.00     |
| 27 SURR | Fluoranthene-d10           | 1.070  | 0.917  | 14.3  | 79    | 0.00     |
| 28      | Fluoranthene               | 1.550  | 1.163  | 25.0  | 72    | 0.00     |
| 29 I    | Chrysene-d12               | 1.000  | 1.000  | 0.0   | 104   | 0.00     |
| 30      | Pyrene                     | 14.551 | 10.679 | 26.6# | 73    | 0.00     |
| 31 S    | Terphenyl-d14              | 7.392  | 5.216  | 29.4# | 75    | 0.00     |
| 32      | Benzo(a)anthracene         | 13.920 | 9.491  | 31.8# | 72    | 0.00     |
| 33      | Chrysene                   | 13.920 | 9.491  | 31.8# | 72    | 0.00     |
| 34      | Bis(2-ethylhexyl)phthalate | 0.765  | 0.851  | -11.2 | 98    | 0.00     |
| 35 I    | Perylene-d12               | 1.000  | 1.000  | 0.0   | 74    | 0.00     |
| 36      | Indeno(1,2,3-cd)pyrene     | 1.638  | 1.629  | 0.5   | 79    | 0.00     |
| 37      | Benzo(b)fluoranthene       | 1.738  | 1.544  | 11.2  | 79    | 0.00     |
| 38      | Benzo(k)fluoranthene       | 1.839  | 1.602  | 12.9  | 73    | 0.00     |
| 39 C    | Benzo(a)pyrene             | 1.329  | 1.201  | 9.6   | 78    | 0.00     |
| 40      | Dibenzo(a,h)anthracene     | 1.238  | 1.205  | 2.7   | 81    | 0.00     |
| 41      | Benzo(g,h,i)perylene       | 1.432  | 1.476  | -3.1  | 88    | 0.00     |

(#) = Out of Range

SPCC's out = 0 CCC's out = 0

Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN112524\  
 Data File : BN035284.D  
 Acq On : 25 Nov 2024 14:29  
 Operator : RC/JU  
 Sample : SSTDICV0.4  
 Misc :  
 ALS Vial : 59 Sample Multiplier: 1

Instrument :  
 BNA\_N  
 ClientSampleId :  
 ICVBN112524

Quant Time: Nov 25 22:35:44 2024  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\8270-SIM-BN112524.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Mon Nov 25 14:32:52 2024  
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min  
 Max. RRF Dev : 25% Max. Rel. Area : 150%

|         | Compound                   | Amount | Calc. | %Dev  | Area% | Dev(min) |
|---------|----------------------------|--------|-------|-------|-------|----------|
| 1 I     | 1,4-Dichlorobenzene-d4     | 0.400  | 0.400 | 0.0   | 115   | 0.00     |
| 2       | 1,4-Dioxane                | 0.400  | 0.381 | 4.8   | 109   | 0.00     |
| 3       | n-Nitrosodimethylamine     | 0.400  | 0.431 | -7.7  | 130   | 0.00     |
| 4 S     | 2-Fluorophenol             | 0.400  | 0.360 | 10.0  | 99    | 0.00     |
| 5 S     | Phenol-d6                  | 0.400  | 0.348 | 13.0  | 95    | 0.00     |
| 6       | bis(2-Chloroethyl)ether    | 0.400  | 0.381 | 4.8   | 108   | 0.00     |
| 7 I     | Naphthalene-d8             | 0.400  | 0.400 | 0.0   | 105   | 0.00     |
| 8 S     | Nitrobenzene-d5            | 0.400  | 0.469 | -17.2 | 115   | 0.00     |
| 9       | Naphthalene                | 0.400  | 0.385 | 3.8   | 103   | 0.00     |
| 10      | Hexachlorobutadiene        | 0.400  | 0.442 | -10.5 | 116   | 0.00     |
| 11 SURR | 2-Methylnaphthalene-d10    | 0.400  | 0.337 | 15.8  | 92    | 0.00     |
| 12      | 2-Methylnaphthalene        | 0.400  | 0.325 | 18.8  | 91    | 0.00     |
| 13 I    | Acenaphthene-d10           | 0.400  | 0.400 | 0.0   | 90    | 0.00     |
| 14 S    | 2,4,6-Tribromophenol       | 0.400  | 0.402 | -0.5  | 103   | 0.00     |
| 15 S    | 2-Fluorobiphenyl           | 0.400  | 0.465 | -16.3 | 95    | 0.00     |
| 16      | Acenaphthylene             | 0.400  | 0.387 | 3.3   | 93    | 0.00     |
| 17      | Acenaphthene               | 0.400  | 0.383 | 4.3   | 93    | 0.00     |
| 18      | Fluorene                   | 0.400  | 0.355 | 11.3  | 87    | 0.00     |
| 19 I    | Phenanthrene-d10           | 0.400  | 0.400 | 0.0   | 83    | 0.00     |
| 20      | 4,6-Dinitro-2-methylphenol | 0.400  | 0.477 | -19.2 | 103   | 0.00     |
| 21      | 4-Bromophenyl-phenylether  | 0.400  | 0.364 | 9.0   | 82    | 0.00     |
| 22      | Hexachlorobenzene          | 0.400  | 0.491 | -22.7 | 106   | 0.00     |
| 23      | Atrazine                   | 0.400  | 0.419 | -4.7  | 93    | 0.00     |
| 24      | Pentachlorophenol          | 0.400  | 0.407 | -1.7  | 94    | 0.00     |
| 25      | Phenanthrene               | 0.400  | 0.362 | 9.5   | 82    | 0.00     |
| 26      | Anthracene                 | 0.400  | 0.320 | 20.0  | 77    | 0.00     |
| 27 SURR | Fluoranthene-d10           | 0.400  | 0.343 | 14.2  | 79    | 0.00     |
| 28      | Fluoranthene               | 0.400  | 0.300 | 25.0# | 72    | 0.00     |
| 29 I    | Chrysene-d12               | 0.400  | 0.400 | 0.0   | 104   | 0.00     |
| 30      | Pyrene                     | 0.400  | 0.294 | 26.5# | 73    | 0.00     |
| 31 S    | Terphenyl-d14              | 0.400  | 0.282 | 29.5# | 75    | 0.00     |
| 32      | Benzo(a)anthracene         | 0.400  | 0.273 | 31.8# | 72    | 0.00     |
| 33      | Chrysene                   | 0.400  | 0.273 | 31.8# | 72    | 0.00     |
| 34      | Bis(2-ethylhexyl)phthalate | 0.400  | 0.041 | 89.8# | 98    | 0.00     |
| 35 I    | Perylene-d12               | 0.400  | 0.400 | 0.0   | 74    | 0.00     |
| 36      | Indeno(1,2,3-cd)pyrene     | 0.400  | 0.398 | 0.5   | 79    | 0.00     |
| 37      | Benzo(b)fluoranthene       | 0.400  | 0.355 | 11.3  | 79    | 0.00     |
| 38      | Benzo(k)fluoranthene       | 0.400  | 0.348 | 13.0  | 73    | 0.00     |
| 39 C    | Benzo(a)pyrene             | 0.400  | 0.361 | 9.8   | 78    | 0.00     |
| 40      | Dibenzo(a,h)anthracene     | 0.400  | 0.389 | 2.8   | 81    | 0.00     |
| 41      | Benzo(g,h,i)perylene       | 0.400  | 0.412 | -3.0  | 88    | 0.00     |

(#) = Out of Range

SPCC's out = 0 CCC's out = 0

Method Path : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\  
 Method File : 8270-SIM-BN112724.M  
 Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 Last Update : Wed Nov 27 23:03:24 2024  
 Response Via : Initial Calibration

## Calibration Files

0.1 =BN035350.D 0.2 =BN035351.D 0.4 =BN035352.D 0.8 =BN035353.D 1.6 =BN035354.D 3.2 =BN035355.D 5.0 =BN035356.D

|           | Compound              | 0.1            | 0.2   | 0.4   | 0.8   | 1.6   | 3.2   | 5.0   | Avg   | %RSD  |
|-----------|-----------------------|----------------|-------|-------|-------|-------|-------|-------|-------|-------|
| -----     |                       |                |       |       |       |       |       |       |       |       |
| 1) I      | 1,4-Dichlorobenzen... | -----ISTD----- |       |       |       |       |       |       |       |       |
| 2)        | 1,4-Dioxane           | 0.406          | 0.417 | 0.376 | 0.380 | 0.392 | 0.357 | 0.348 | 0.382 | 6.52  |
| 3)        | n-Nitrosodimet...     | 0.334          | 0.302 | 0.326 | 0.315 | 0.332 | 0.310 | 0.309 | 0.319 | 3.92  |
| 4) S      | 2-Fluorophenol        | 1.025          | 1.112 | 1.018 | 0.958 | 0.998 | 0.954 | 0.942 | 1.001 | 5.88  |
| 5) S      | Phenol-d6             | 1.227          | 1.186 | 1.193 | 1.143 | 1.235 | 1.215 | 1.229 | 1.204 | 2.69  |
| 6)        | bis(2-Chloroet...     | 1.035          | 1.021 | 0.992 | 0.993 | 1.051 | 0.997 | 0.991 | 1.012 | 2.39  |
|           |                       |                |       |       |       |       |       |       |       |       |
| 7) I      | Naphthalene-d8        | -----ISTD----- |       |       |       |       |       |       |       |       |
| 8) S      | Nitrobenzene-d5       | 0.227          | 0.232 | 0.235 | 0.248 | 0.257 | 0.251 | 0.261 | 0.244 | 5.31  |
| 9)        | Naphthalene           | 1.062          | 1.029 | 1.047 | 1.032 | 1.096 | 1.049 | 1.070 | 1.055 | 2.22  |
| 10)       | Hexachlorobuta...     | 0.245          | 0.242 | 0.247 | 0.241 | 0.255 | 0.236 | 0.238 | 0.243 | 2.60  |
| 11) SURR2 | Methylnaphth...       | 0.591          | 0.603 | 0.619 | 0.615 | 0.659 | 0.639 | 0.656 | 0.626 | 4.16  |
| 12)       | 2-Methylnaphth...     | 0.724          | 0.716 | 0.740 | 0.747 | 0.795 | 0.771 | 0.795 | 0.755 | 4.25  |
|           |                       |                |       |       |       |       |       |       |       |       |
| 13) I     | Acenaphthene-d10      | -----ISTD----- |       |       |       |       |       |       |       |       |
| 14) S     | 2,4,6-Tribromo...     | 0.273          | 0.258 | 0.257 | 0.268 | 0.293 | 0.311 | 0.328 | 0.284 | 9.67  |
| 15) S     | 2-Fluorobiphenyl      | 1.489          | 1.491 | 1.510 | 1.508 | 1.566 | 1.511 | 1.511 | 1.512 | 1.68  |
| 16)       | Acenaphthylene        | 1.643          | 1.600 | 1.595 | 1.638 | 1.737 | 1.763 | 1.781 | 1.680 | 4.68  |
| 17)       | Acenaphthene          | 1.121          | 1.084 | 1.086 | 1.108 | 1.145 | 1.122 | 1.140 | 1.115 | 2.17  |
| 18)       | Fluorene              | 1.589          | 1.549 | 1.543 | 1.600 | 1.652 | 1.614 | 1.625 | 1.596 | 2.47  |
|           |                       |                |       |       |       |       |       |       |       |       |
| 19) I     | Phenanthrene-d10      | -----ISTD----- |       |       |       |       |       |       |       |       |
| 20)       | 4,6-Dinitro-2-...     | 0.038          | 0.031 | 0.036 | 0.041 | 0.051 |       |       | 0.039 | 19.30 |
| 21)       | 4-Bromophenyl-...     | 0.226          | 0.218 | 0.226 | 0.233 | 0.249 | 0.242 | 0.244 | 0.234 | 4.85  |
| 22)       | Hexachlorobenzene     | 0.265          | 0.266 | 0.273 | 0.276 | 0.288 | 0.278 | 0.277 | 0.275 | 2.82  |
| 23)       | Atrazine              | 0.155          | 0.155 | 0.154 | 0.156 | 0.175 | 0.179 | 0.191 | 0.167 | 8.98  |
| 24)       | Pentachlorophenol     | 0.140          | 0.090 | 0.095 | 0.103 | 0.121 | 0.136 | 0.150 | 0.120 | 19.86 |
| 25)       | Phenanthrene          | 1.092          | 1.046 | 1.067 | 1.092 | 1.148 | 1.121 | 1.125 | 1.099 | 3.20  |
| 26)       | Anthracene            | 0.964          | 0.923 | 0.940 | 0.973 | 1.050 | 1.042 | 1.064 | 0.994 | 5.76  |
| 27) SURR  | Fluoranthene-d10      | 1.203          | 1.086 | 1.077 | 1.105 | 1.165 | 1.138 | 1.164 | 1.134 | 4.10  |
| 28)       | Fluoranthene          | 1.538          | 1.396 | 1.416 | 1.456 | 1.539 | 1.497 | 1.526 | 1.481 | 3.99  |
|           |                       |                |       |       |       |       |       |       |       |       |
| 29) I     | Chrysene-d12          | -----ISTD----- |       |       |       |       |       |       |       |       |
| 30)       | Pyrene                | 1.583          | 1.445 | 1.475 | 1.443 | 1.519 | 1.440 | 1.431 | 1.477 | 3.79  |
| 31) S     | Terphenyl-d14         | 0.832          | 0.777 | 0.791 | 0.771 | 0.812 | 0.772 | 0.769 | 0.789 | 3.08  |
| 32)       | Benzo(a)anthra...     | 1.431          | 1.343 | 1.355 | 1.375 | 1.451 | 1.411 | 1.429 | 1.399 | 2.98  |
| 33)       | Chrysene              | 1.463          | 1.452 | 1.441 | 1.415 | 1.487 | 1.422 | 1.420 | 1.443 | 1.84  |
| 34)       | Bis(2-ethylhex...     | 0.710          | 0.558 | 0.516 | 0.505 | 0.520 | 0.516 | 0.544 | 0.553 | 12.96 |
|           |                       |                |       |       |       |       |       |       |       |       |
| 35) I     | Perylene-d12          | -----ISTD----- |       |       |       |       |       |       |       |       |

Method Path : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\

Method File : 8270-SIM-BN112724.M

|       |                   |       |       |       |       |       |       |       |       |       |
|-------|-------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 36)   | Indeno(1,2,3-c... | 1.411 | 1.489 | 1.532 | 1.554 | 1.660 | 1.615 | 1.685 | 1.564 | 6.22  |
| 37)   | Benzo(b)fluora... | 1.305 | 1.348 | 1.313 | 1.378 | 1.827 | 1.463 | 1.608 | 1.463 | 13.12 |
| 38)   | Benzo(k)fluora... | 1.444 | 1.376 | 1.402 | 1.419 | 1.527 | 1.447 | 1.468 | 1.440 | 3.39  |
| 39) C | Benzo(a)pyrene    | 1.204 | 1.156 | 1.146 | 1.171 | 1.256 | 1.232 | 1.271 | 1.205 | 4.11  |
| 40)   | Dibenzo(a,h)an... | 1.104 | 1.187 | 1.194 | 1.226 | 1.315 | 1.280 | 1.332 | 1.234 | 6.55  |
| 41)   | Benzo(g,h,i)pe... | 1.188 | 1.238 | 1.248 | 1.269 | 1.360 | 1.330 | 1.394 | 1.289 | 5.71  |

-----  
(#) = Out of Range

Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN112724\  
 Data File : BN035350.D  
 Acq On : 27 Nov 2024 15:34  
 Operator : RC/JU  
 Sample : SSTDICC0.1  
 Misc :  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 BNA\_N  
 ClientSampleId :  
 SSTDICC0.1

Manual Integrations  
 APPROVED

Reviewed By :Yogesh Patel 11/29/2024  
 Supervised By :mohammad ahmed 11/29/2024

Quant Time: Nov 27 22:52:09 2024  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\8270-SIM-BN112724.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Wed Nov 27 22:48:24 2024  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc  | Units | Dev(Min) |                                             |
|-------------------------------|--------|------|----------|-------|-------|----------|---------------------------------------------|
| Internal Standards            |        |      |          |       |       |          | 11/29/2024<br>Supervised By :mohammad ahmed |
| 1) 1,4-Dichlorobenzene-d4     | 7.308  | 152  | 2237     | 0.400 | ng    | 0.00     |                                             |
| 7) Naphthalene-d8             | 10.052 | 136  | 5753     | 0.400 | ng    | 0.00     |                                             |
| 13) Acenaphthene-d10          | 13.967 | 164  | 4077     | 0.400 | ng    | 0.00     |                                             |
| 19) Phenanthrene-d10          | 16.736 | 188  | 10855    | 0.400 | ng    | 0.00     |                                             |
| 29) Chrysene-d12              | 20.974 | 240  | 11269    | 0.400 | ng    | 0.00     |                                             |
| 35) Perylene-d12              | 23.067 | 264  | 13004    | 0.400 | ng    | 0.00     | 11/29/2024                                  |
| System Monitoring Compounds   |        |      |          |       |       |          |                                             |
| 4) 2-Fluorophenol             | 4.968  | 112  | 573      | 0.101 | ng    | 0.00     |                                             |
| 5) Phenol-d6                  | 6.513  | 99   | 686      | 0.096 | ng    | 0.00     |                                             |
| 8) Nitrobenzene-d5            | 8.450  | 82   | 327m     | 0.065 | ng    | 0.01     |                                             |
| 11) 2-Methylnaphthalene-d10   | 11.661 | 152  | 850      | 0.083 | ng    | 0.00     |                                             |
| 14) 2,4,6-Tribromophenol      | 15.475 | 330  | 278      | 0.095 | ng    | 0.00     |                                             |
| 15) 2-Fluorobiphenyl          | 12.574 | 172  | 1518     | 0.092 | ng    | 0.00     |                                             |
| 27) Fluoranthene-d10          | 18.785 | 212  | 3265     | 0.098 | ng    | 0.00     |                                             |
| 31) Terphenyl-d14             | 19.412 | 244  | 2344     | 0.099 | ng    | 0.00     |                                             |
| Target Compounds              |        |      |          |       |       |          | Qvalue                                      |
| 2) 1,4-Dioxane                | 3.003  | 88   | 227      | 0.112 | ng    | #        | 87                                          |
| 3) n-Nitrosodimethylamine     | 3.299  | 42   | 187      | 0.099 | ng    | #        | 90                                          |
| 6) bis(2-Chloroethyl)ether    | 6.759  | 93   | 579      | 0.108 | ng    |          | 98                                          |
| 9) Naphthalene                | 10.105 | 128  | 1527     | 0.102 | ng    | #        | 91                                          |
| 10) Hexachlorobutadiene       | 10.404 | 225  | 352      | 0.080 | ng    | #        | 97                                          |
| 12) 2-Methylnaphthalene       | 11.737 | 142  | 1042     | 0.094 | ng    |          | 96                                          |
| 16) Acenaphthylene            | 13.679 | 152  | 1675     | 0.096 | ng    |          | 100                                         |
| 17) Acenaphthene              | 14.031 | 154  | 1143     | 0.100 | ng    |          | 99                                          |
| 18) Fluorene                  | 15.026 | 166  | 1620     | 0.096 | ng    |          | 98                                          |
| 20) 4,6-Dinitro-2-methylph... | 15.133 | 198  | 103      | 0.046 | ng    | #        | 29                                          |
| 21) 4-Bromophenyl-phenylether | 15.941 | 248  | 612      | 0.088 | ng    | #        | 94                                          |
| 22) Hexachlorobenzene         | 16.041 | 284  | 720      | 0.100 | ng    |          | 97                                          |
| 23) Atrazine                  | 16.227 | 200  | 421      | 0.068 | ng    | #        | 86                                          |
| 24) Pentachlorophenol         | 16.401 | 266  | 381      | 0.114 | ng    |          | 90                                          |
| 25) Phenanthrene              | 16.773 | 178  | 2963     | 0.104 | ng    |          | 99                                          |
| 26) Anthracene                | 16.860 | 178  | 2617     | 0.100 | ng    |          | 98                                          |
| 28) Fluoranthene              | 18.817 | 202  | 4173     | 0.106 | ng    |          | 99                                          |
| 30) Pyrene                    | 19.184 | 202  | 4461     | 0.119 | ng    |          | 100                                         |
| 32) Benzo(a)anthracene        | 20.956 | 228  | 4031     | 0.103 | ng    |          | 99                                          |
| 33) Chrysene                  | 21.010 | 228  | 4123     | 0.106 | ng    |          | 97                                          |
| 34) Bis(2-ethylhexyl)phtha... | 20.929 | 149  | 1999     | 0.097 | ng    |          | 99                                          |
| 36) Indeno(1,2,3-cd)pyrene    | 25.105 | 276  | 4586     | 0.088 | ng    |          | 97                                          |
| 37) Benzo(b)fluoranthene      | 22.456 | 252  | 4243     | 0.097 | ng    | #        | 82                                          |
| 38) Benzo(k)fluoranthene      | 22.494 | 252  | 4695m    | 0.107 | ng    |          |                                             |
| 39) Benzo(a)pyrene            | 22.977 | 252  | 3913     | 0.102 | ng    | #        | 69                                          |
| 40) Dibenzo(a,h)anthracene    | 25.126 | 278  | 3588     | 0.087 | ng    | #        | 86                                          |
| 41) Benzo(g,h,i)perylene      | 25.725 | 276  | 3863     | 0.088 | ng    | #        | 93                                          |

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

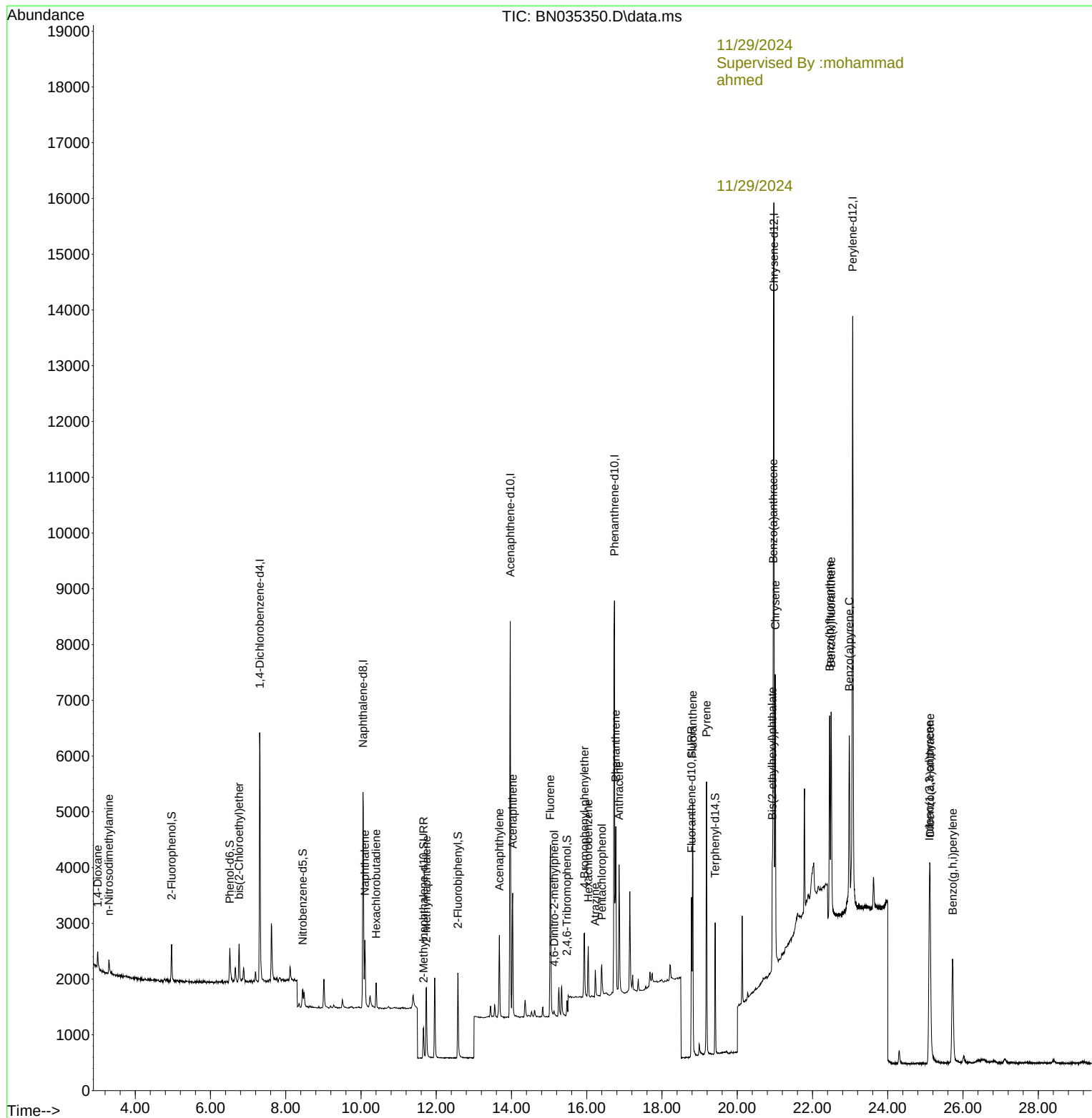
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Data File : BN035350.D  
Acq On : 27 Nov 2024 15:34  
Operator : RC/JU  
Sample : SSTDICC0.1  
Misc :  
ALS Vial : 2 Sample Multiplier: 1

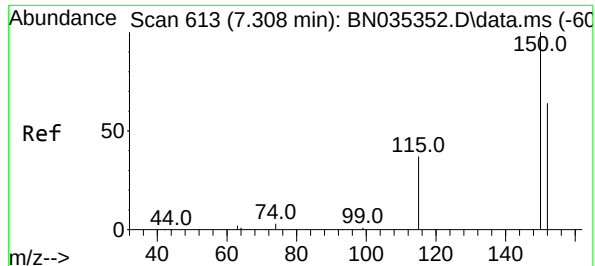
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC0.1

Quant Time: Nov 27 22:52:09 2024  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\8270-SIM-BN112724.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Wed Nov 27 22:48:24 2024  
Response via : Initial Calibration

Manual Integrations  
APPROVED

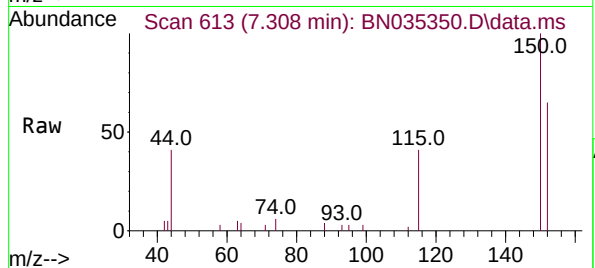
Reviewed By :Yogesh Patel 11/29/2024  
Supervised By :mohammad ahmed 11/29/2024





#1  
1,4-Dichlorobenzene-d4  
Concen: 0.400 ng  
RT: 7.308 min Scan# 61  
Delta R.T. -0.000 min  
Lab File: BN035350.D  
Acq: 27 Nov 2024 15:34

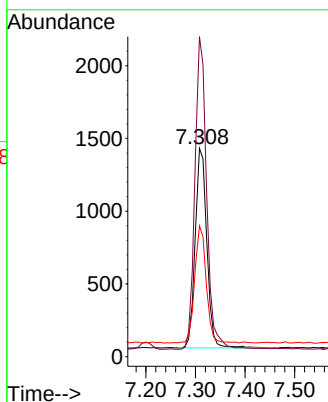
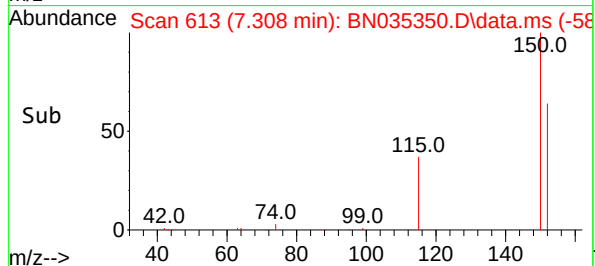
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC0.1



Tgt Ion: 152 Resp: 223  
Ion Ratio Lower Upper  
152 100  
150 153.6 124.0 186.0  
115 62.8 49.6 74.4

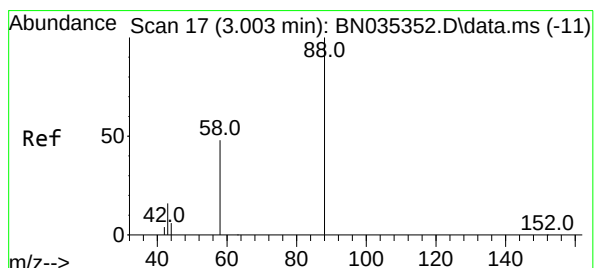
Manual Integrations  
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Reviewed By :Yogesh Patel 11/29/2024  
Supervised By :mohammad ahmed 11/29/2024



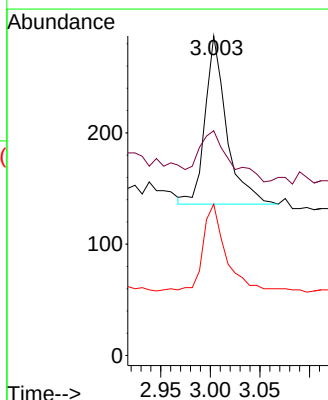
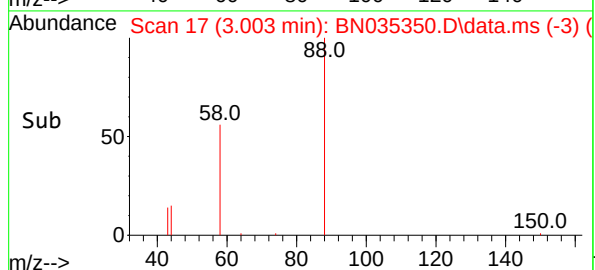
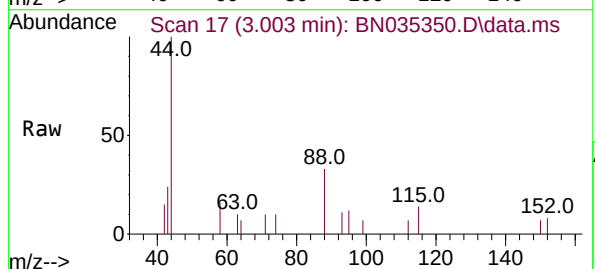
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Supervised By :mohammad  
ahmed

11/29/2024

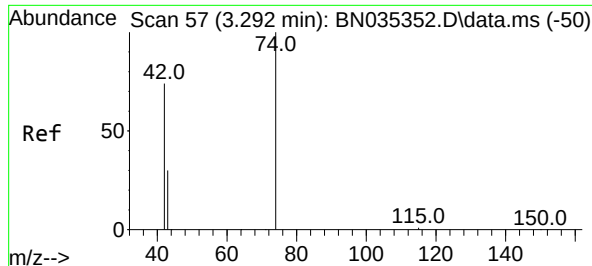


#2  
1,4-Dioxane  
Concen: 0.112 ng  
RT: 3.003 min Scan# 17  
Delta R.T. 0.000 min  
Lab File: BN035350.D  
Acq: 27 Nov 2024 15:34

Tgt Ion: 88 Resp: 227  
Ion Ratio Lower Upper  
88 100  
43 41.4 17.2 25.8#  
58 54.6 44.5 66.7

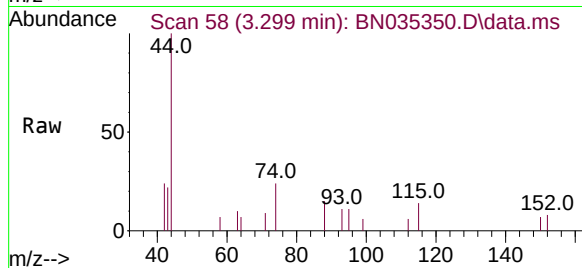






#3  
n-Nitrosodimethylamine  
Concen: 0.099 ng  
RT: 3.299 min Scan# 57  
Delta R.T. 0.007 min  
Lab File: BN035350.D  
Acq: 27 Nov 2024 15:34

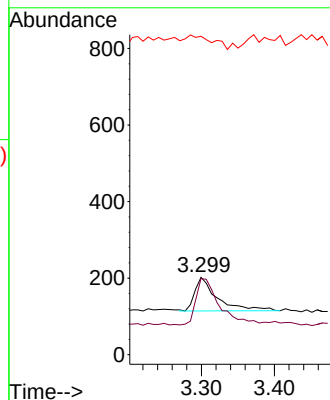
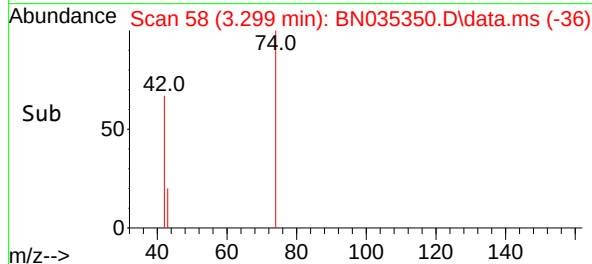
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC0.1



Tgt Ion: 42 Resp: 187  
Ion Ratio Lower Upper  
42 100  
74 146.5 124.9 187.3  
44 51.9 2.2 3.4

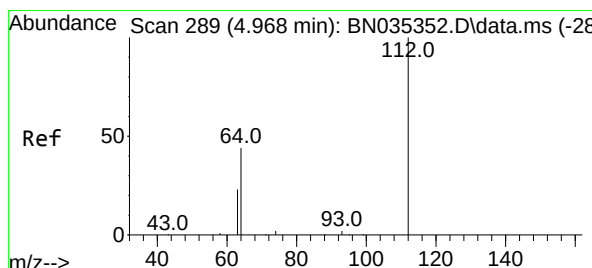
Manual Integrations  
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Reviewed By :Yogesh Patel 11/29/2024  
Supervised By :mohammad ahmed 11/29/2024



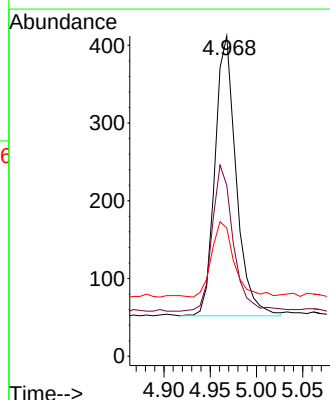
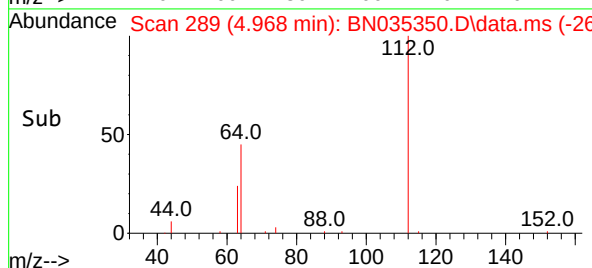
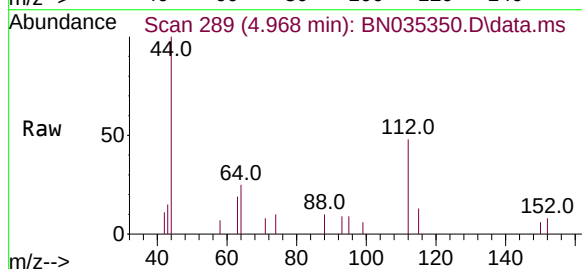
11/29/2024  
Supervised By :mohammad  
ahmed

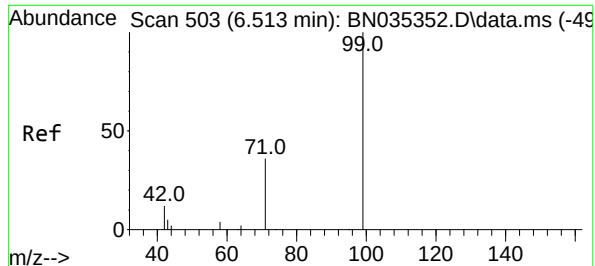
11/29/2024



#4  
2-Fluorophenol  
Concen: 0.101 ng  
RT: 4.968 min Scan# 289  
Delta R.T. 0.000 min  
Lab File: BN035350.D  
Acq: 27 Nov 2024 15:34

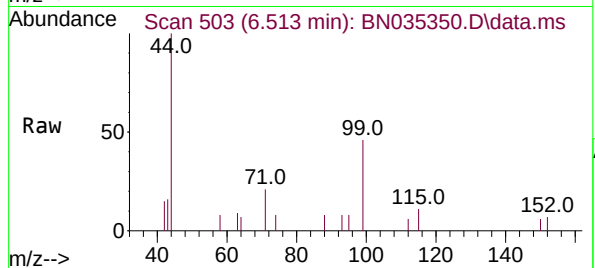
Tgt Ion:112 Resp: 573  
Ion Ratio Lower Upper  
112 100  
64 52.0 39.8 59.8  
63 28.8 21.0 31.6





#5  
Phenol-d6  
Concen: 0.096 ng  
RT: 6.513 min Scan# 503  
Delta R.T. 0.000 min  
Lab File: BN035350.D  
Acq: 27 Nov 2024 15:34

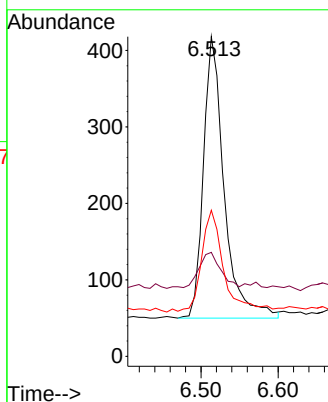
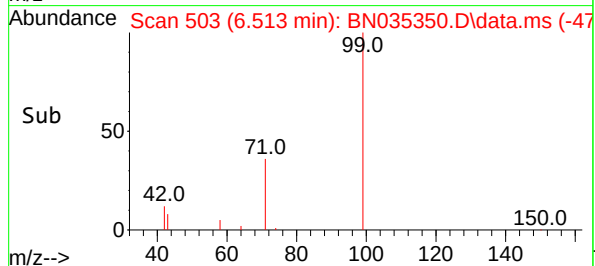
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC0.1



Tgt Ion: 99 Resp: 680  
Ion Ratio Lower Upper  
99 100  
42 13.7 11.4 17.2  
71 38.9 29.3 43.9

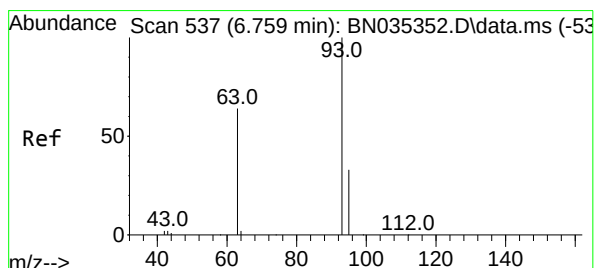
Manual Integrations  
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Supervised By :mohammad ahmed 11/29/2024



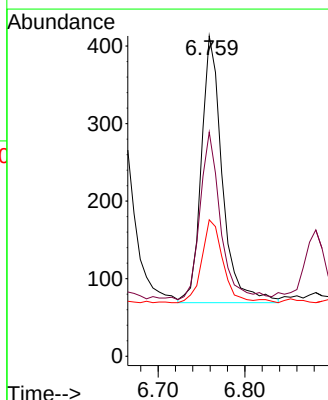
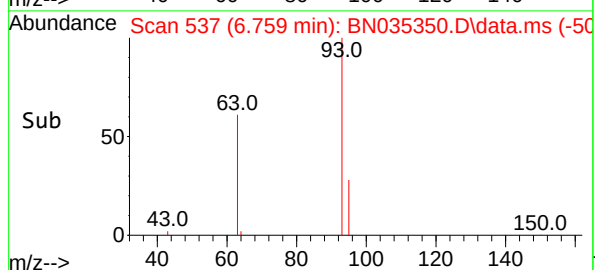
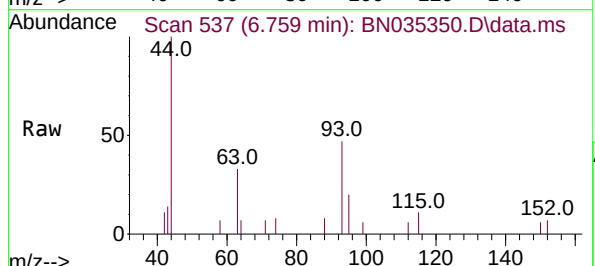
11/29/2024  
Supervised By :mohammad  
ahmed

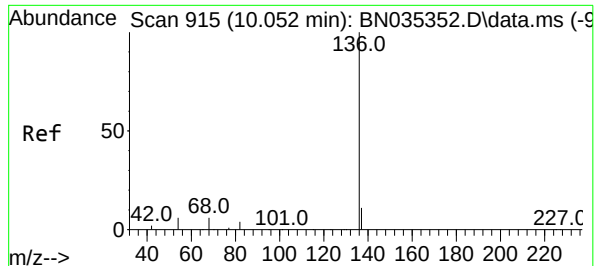
11/29/2024



#6  
bis(2-Chloroethyl)ether  
Concen: 0.108 ng  
RT: 6.759 min Scan# 537  
Delta R.T. 0.000 min  
Lab File: BN035350.D  
Acq: 27 Nov 2024 15:34

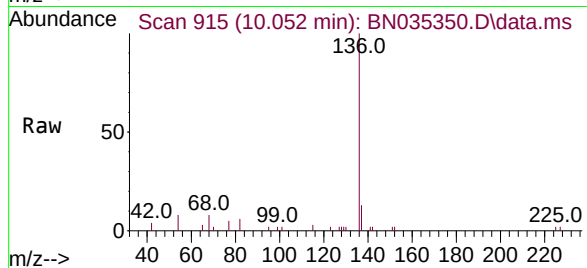
Tgt Ion: 93 Resp: 579  
Ion Ratio Lower Upper  
93 100  
63 61.7 50.4 75.6  
95 31.3 25.7 38.5





#7  
Naphthalene-d8  
Concen: 0.400 ng  
RT: 10.052 min Scan# 915  
Delta R.T. 0.000 min  
Lab File: BN035350.D  
Acq: 27 Nov 2024 15:34

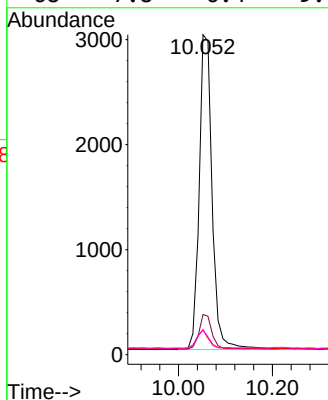
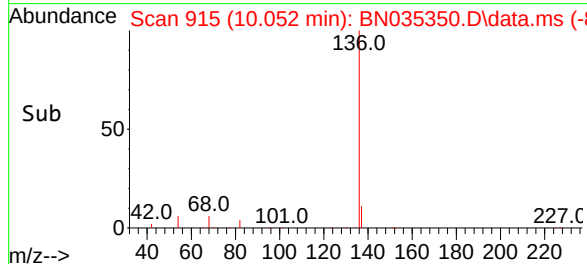
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC0.1



Tgt Ion: 136 Resp: 575  
Ion Ratio Lower Upper  
136 100  
137 12.6 10.2 15.2  
54 7.7 6.1 9.1  
68 7.8 6.4 9.6

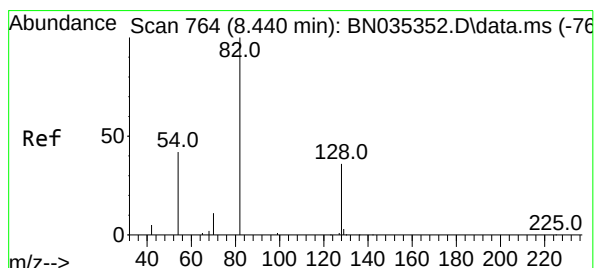
Manual Integrations  
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Supervised By :mohammad ahmed 11/29/2024



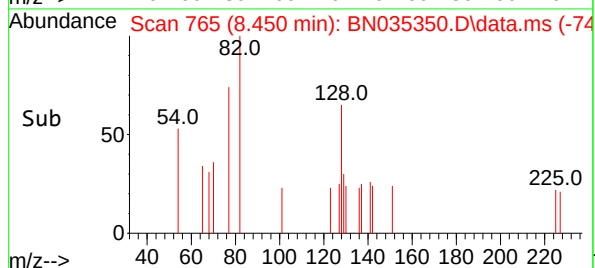
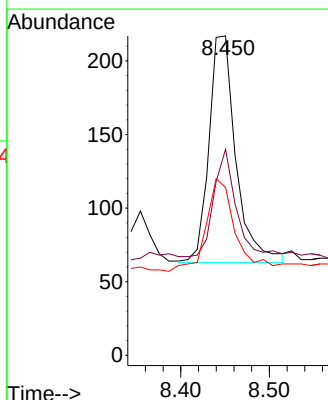
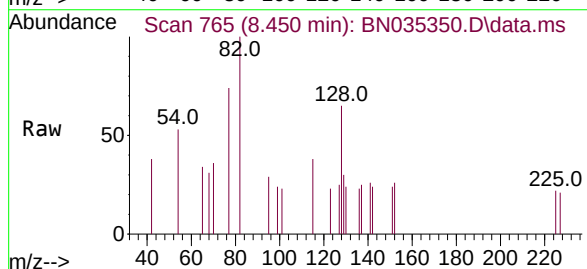
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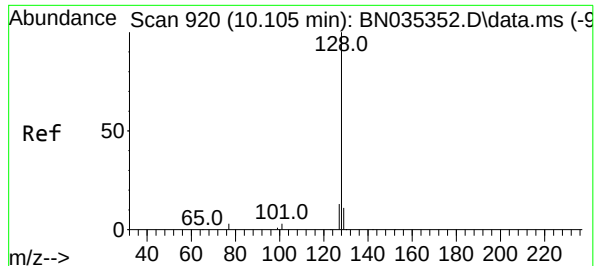
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#8  
Nitrobenzene-d5  
Concen: 0.065 ng m  
RT: 8.450 min Scan# 765  
Delta R.T. 0.011 min  
Lab File: BN035350.D  
Acq: 27 Nov 2024 15:34

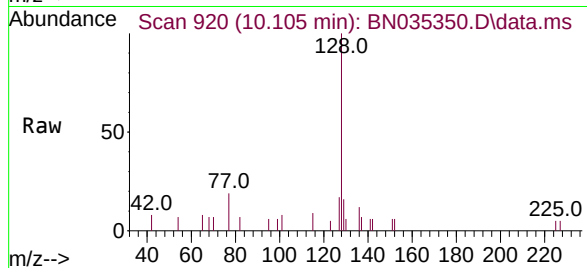
Tgt Ion: 82 Resp: 327  
Ion Ratio Lower Upper  
82 100  
128 64.5 33.4 50.0#  
54 52.5 36.7 55.1





#9  
Naphthalene  
Concen: 0.102 ng  
RT: 10.105 min Scan# 912  
Delta R.T. 0.000 min  
Lab File: BN035350.D  
Acq: 27 Nov 2024 15:34

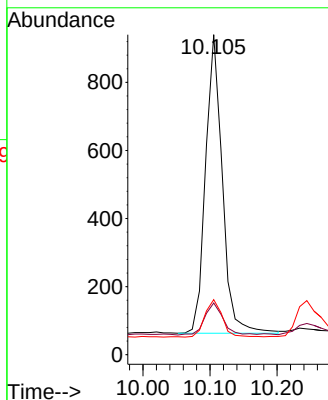
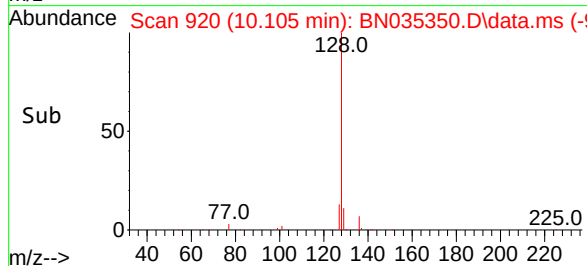
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC0.1



Tgt Ion:128 Resp: 152  
Ion Ratio Lower Upper  
128 100  
129 16.2 9.8 14.6  
127 17.2 11.4 17.2

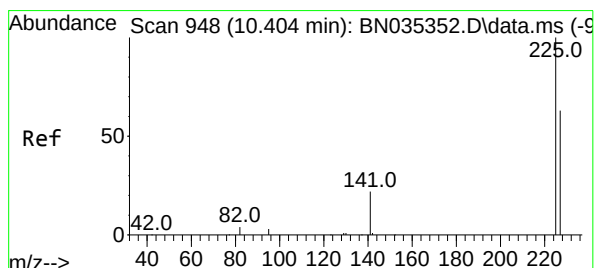
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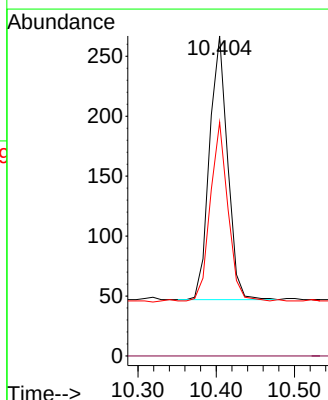
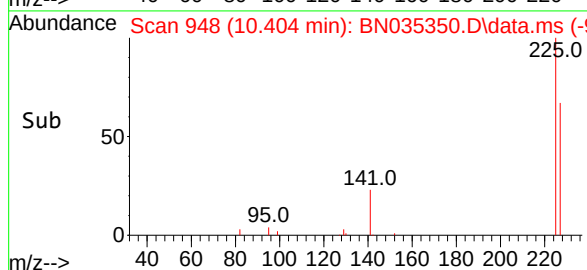
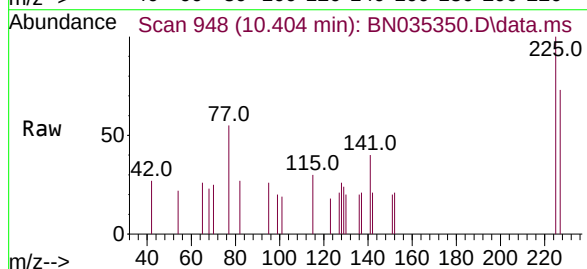
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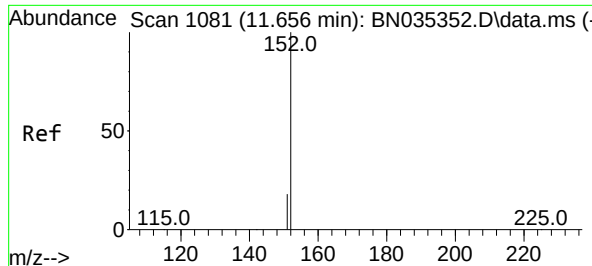
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#10  
Hexachlorobutadiene  
Concen: 0.080 ng  
RT: 10.404 min Scan# 948  
Delta R.T. 0.000 min  
Lab File: BN035350.D  
Acq: 27 Nov 2024 15:34

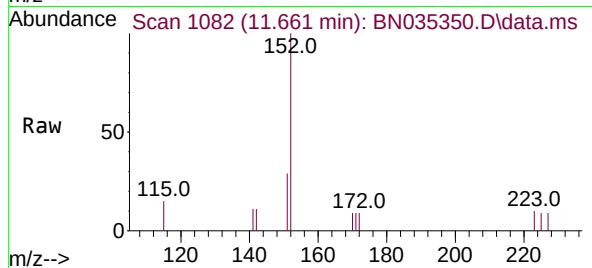
Tgt Ion:225 Resp: 352  
Ion Ratio Lower Upper  
225 100  
223 0.0 0.0 0.0  
227 66.2 51.3 76.9





#11  
2-Methylnaphthalene-d10  
Concen: 0.083 ng  
RT: 11.661 min Scan# 1081  
Delta R.T. 0.005 min  
Lab File: BN035350.D  
Acq: 27 Nov 2024 15:34

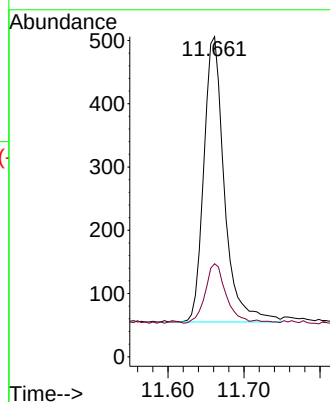
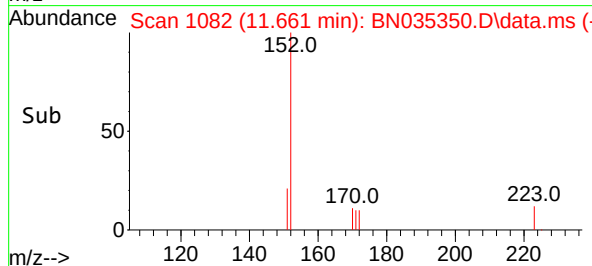
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC0.1



Tgt Ion:152 Resp: 850  
Ion Ratio Lower Upper  
152 100  
151 21.1 16.6 25.0

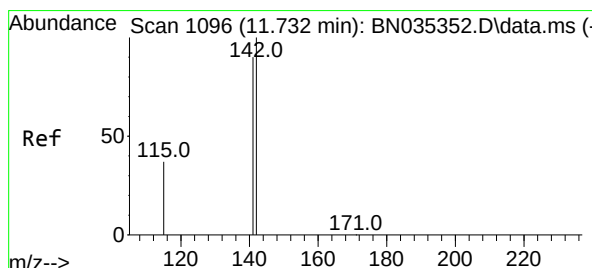
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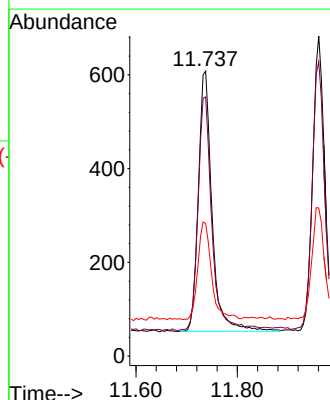
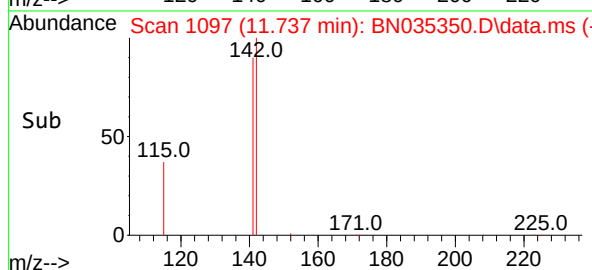
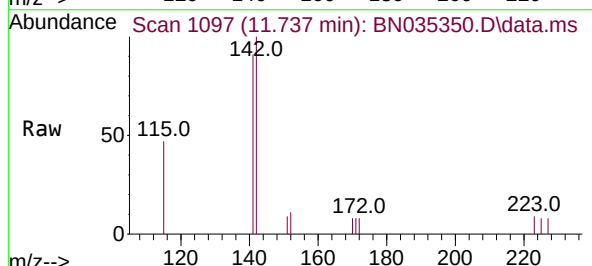
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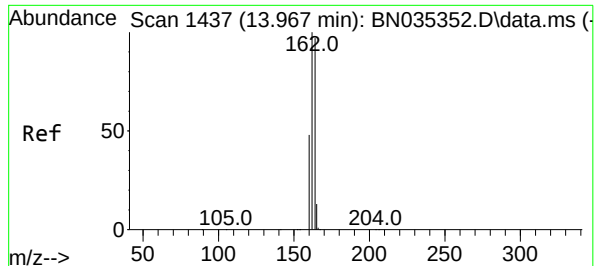
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#12  
2-Methylnaphthalene  
Concen: 0.094 ng  
RT: 11.737 min Scan# 1097  
Delta R.T. 0.005 min  
Lab File: BN035350.D  
Acq: 27 Nov 2024 15:34

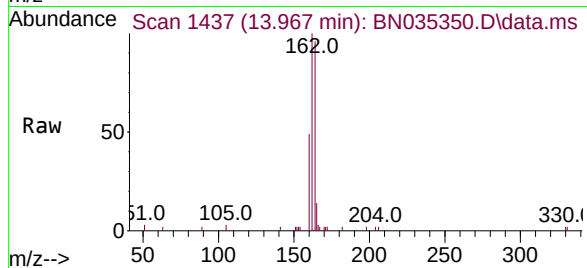
Tgt Ion:142 Resp: 1042  
Ion Ratio Lower Upper  
142 100  
141 91.0 72.2 108.4  
115 46.5 31.4 47.0





#13  
Acenaphthene-d10  
Concen: 0.400 ng  
RT: 13.967 min Scan# 1437  
Delta R.T. 0.000 min  
Lab File: BN035350.D  
Acq: 27 Nov 2024 15:34

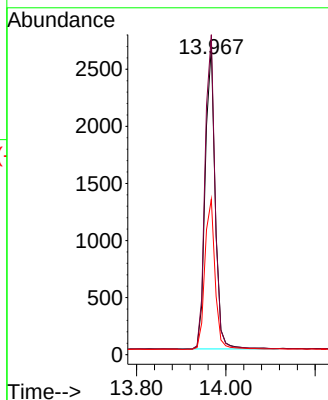
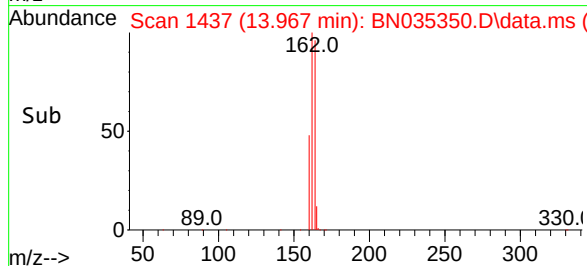
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC0.1



Tgt Ion:164 Resp: 407  
Ion Ratio Lower Upper  
164 100  
162 103.9 82.2 123.2  
160 50.4 40.1 60.1

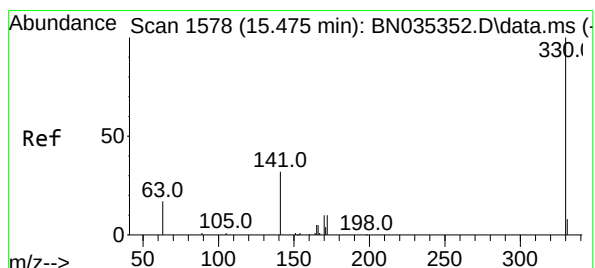
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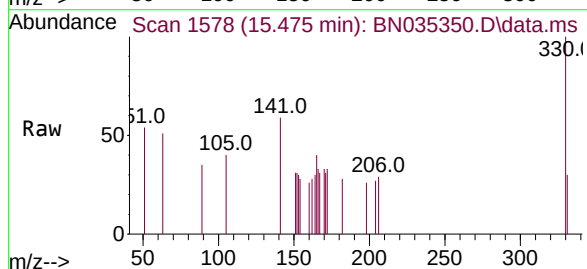


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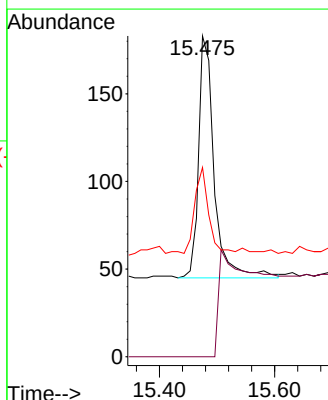
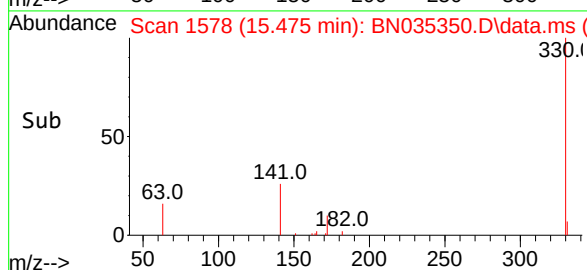
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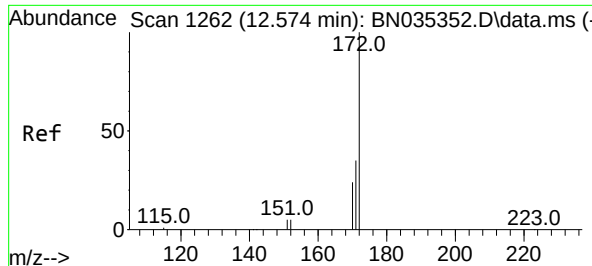


#14  
2,4,6-Tribromophenol  
Concen: 0.095 ng  
RT: 15.475 min Scan# 1578  
Delta R.T. 0.000 min  
Lab File: BN035350.D  
Acq: 27 Nov 2024 15:34



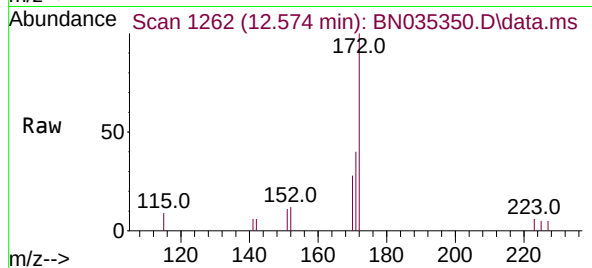
Tgt Ion:330 Resp: 278  
Ion Ratio Lower Upper  
330 100  
332 0.0 0.0 0.0  
141 29.1 26.6 40.0





#15  
2-Fluorobiphenyl  
Concen: 0.092 ng  
RT: 12.574 min Scan# 1262  
Delta R.T. 0.000 min  
Lab File: BN035350.D  
Acq: 27 Nov 2024 15:34

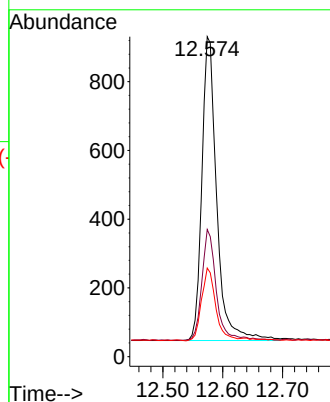
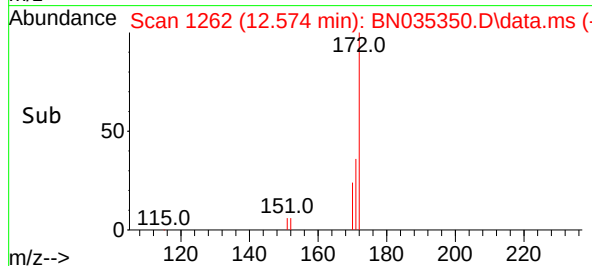
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC0.1



Tgt Ion:172 Resp: 1518  
Ion Ratio Lower Upper  
172 100  
171 39.7 29.0 43.4  
170 27.7 19.8 29.8

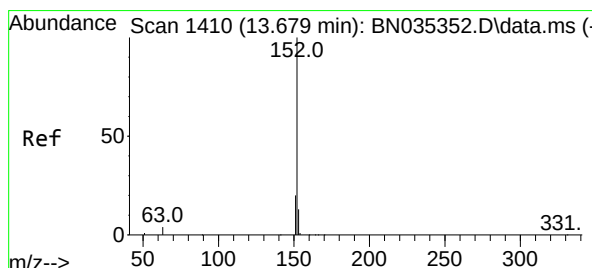
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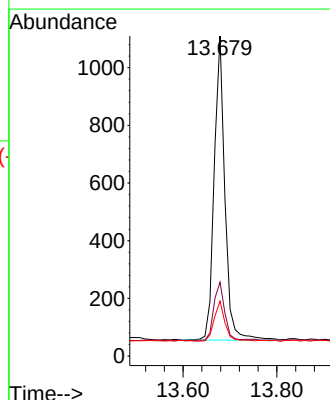
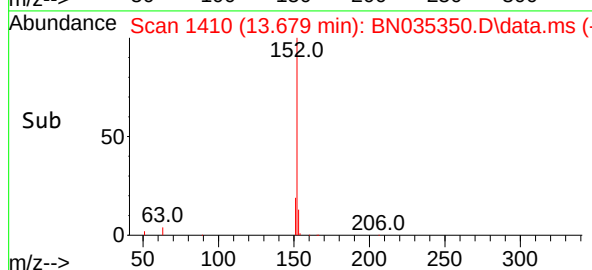
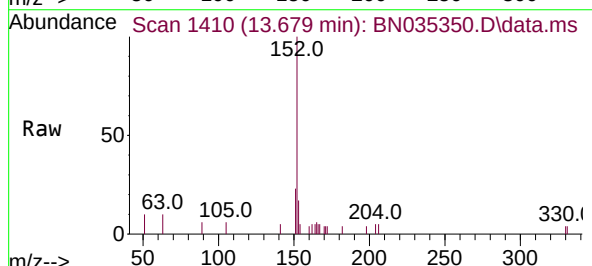
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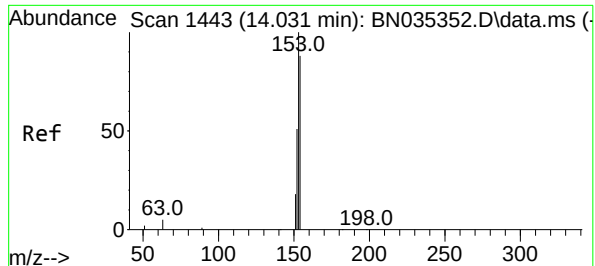
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#16  
Acenaphthylene  
Concen: 0.096 ng  
RT: 13.679 min Scan# 1410  
Delta R.T. 0.000 min  
Lab File: BN035350.D  
Acq: 27 Nov 2024 15:34

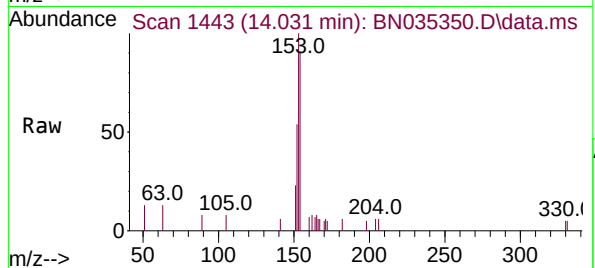
Tgt Ion:152 Resp: 1675  
Ion Ratio Lower Upper  
152 100  
151 20.4 16.2 24.2  
153 13.1 10.4 15.6





#17  
Acenaphthene  
Concen: 0.100 ng  
RT: 14.031 min Scan# 1443  
Delta R.T. 0.000 min  
Lab File: BN035350.D  
Acq: 27 Nov 2024 15:34

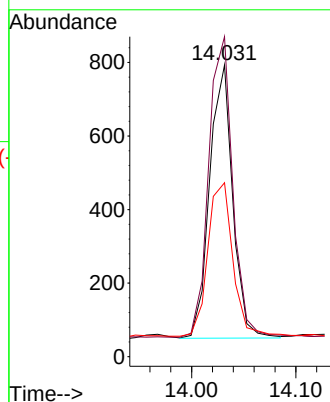
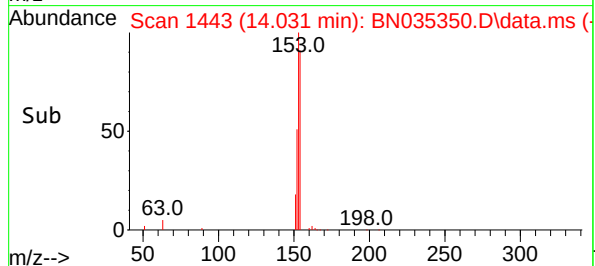
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC0.1



Tgt Ion:154 Resp: 114.0  
Ion Ratio Lower Upper  
154 100  
153 115.0 92.6 139.0  
152 60.9 49.0 73.6

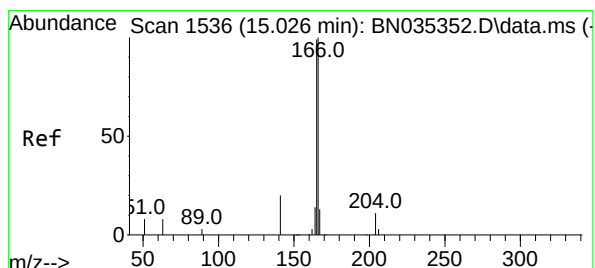
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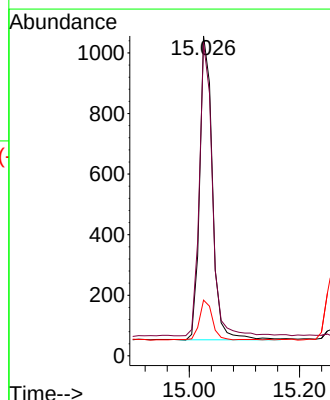
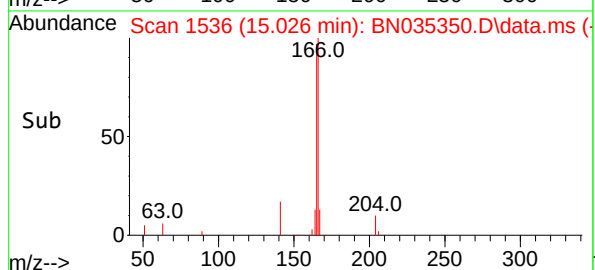
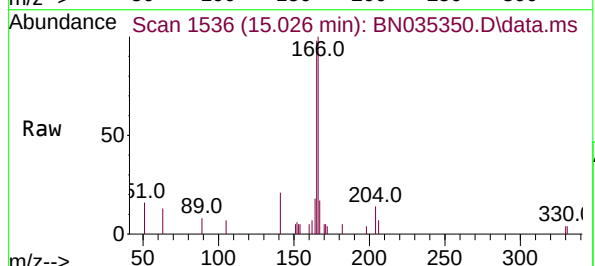
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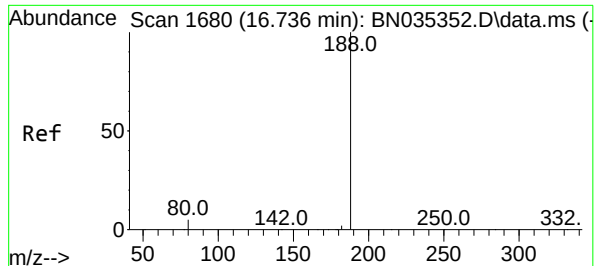


#18  
Fluorene  
Concen: 0.096 ng  
RT: 15.026 min Scan# 1536  
Delta R.T. 0.000 min  
Lab File: BN035350.D  
Acq: 27 Nov 2024 15:34

Tgt Ion:166 Resp: 1620  
Ion Ratio Lower Upper  
166 100  
165 97.7 79.7 119.5  
167 13.1 10.8 16.2

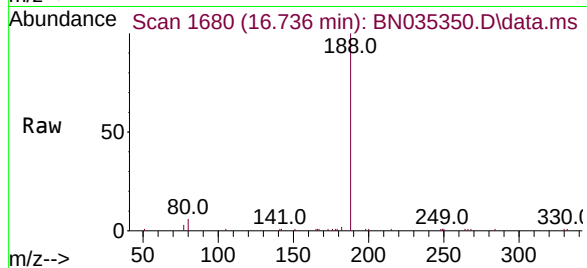






#19  
Phenanthrene-d10  
Concen: 0.400 ng  
RT: 16.736 min Scan# 1680  
Delta R.T. 0.000 min  
Lab File: BN035350.D  
Acq: 27 Nov 2024 15:34

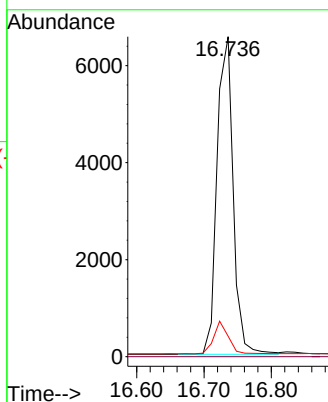
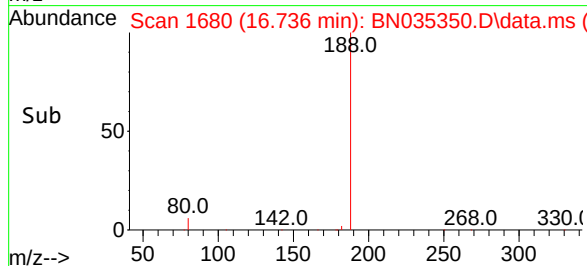
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC0.1



Tgt Ion:188 Resp: 1085  
Ion Ratio Lower Upper  
188 100  
94 0.0 0.0 0.0  
80 6.4 4.6 6.8

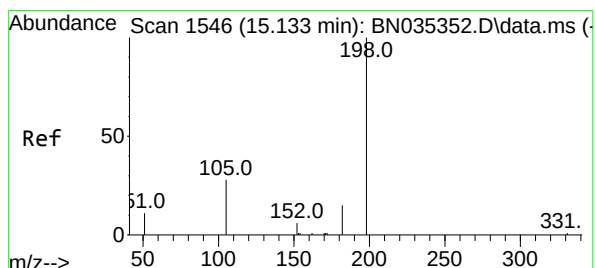
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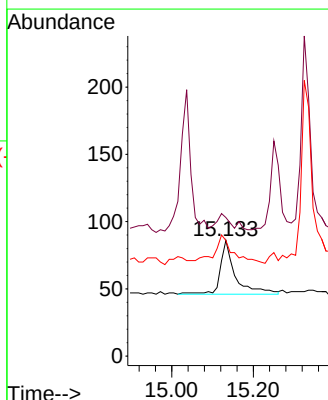
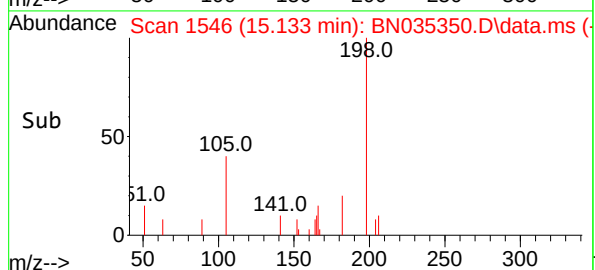
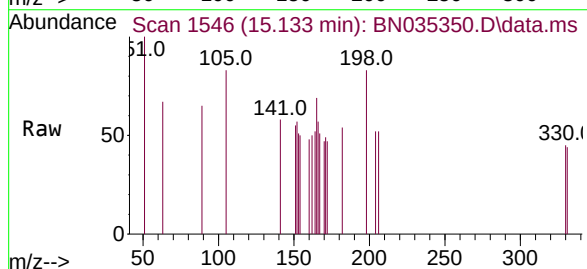
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ahmed

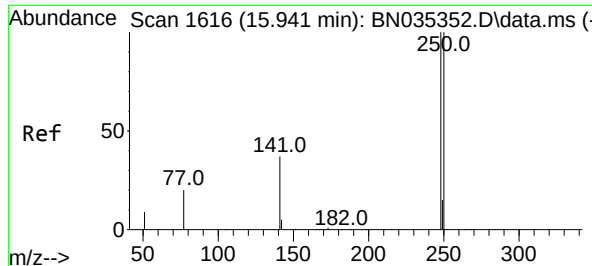
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#20  
4,6-Dinitro-2-methylphenol  
Concen: 0.046 ng  
RT: 15.133 min Scan# 1546  
Delta R.T. 0.000 min  
Lab File: BN035350.D  
Acq: 27 Nov 2024 15:34

Tgt Ion:198 Resp: 103  
Ion Ratio Lower Upper  
198 100  
51 119.8 46.5 69.7#  
105 100.0 45.3 67.9#





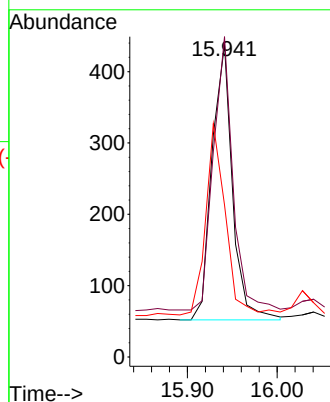
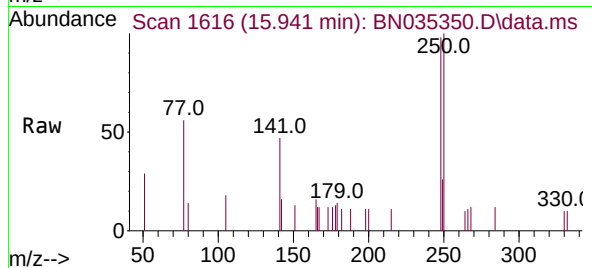
#21  
4-Bromophenyl-phenylether  
Concen: 0.088 ng  
RT: 15.941 min Scan# 1616  
Delta R.T. 0.000 min  
Lab File: BN035350.D  
Acq: 27 Nov 2024 15:34

Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC0.1

Tgt Ion:248 Resp: 612  
Ion Ratio Lower Upper  
248 100  
250 102.5 80.6 120.8  
141 48.6 31.5 47.3

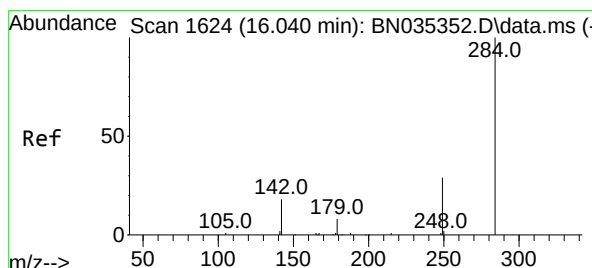
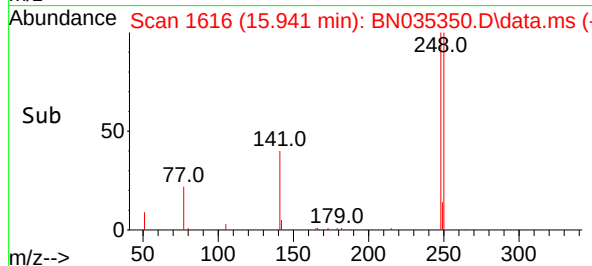
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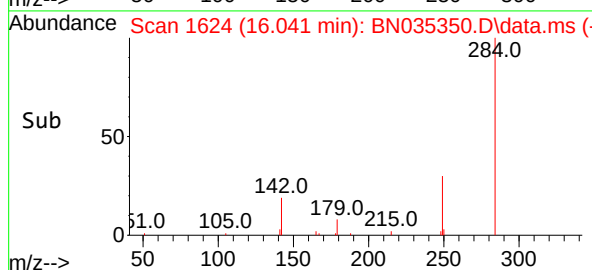
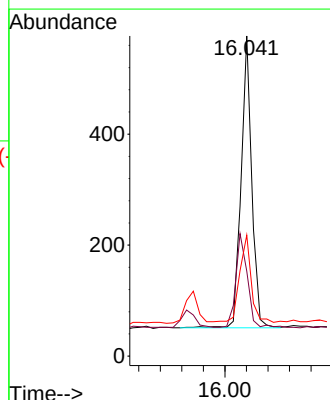
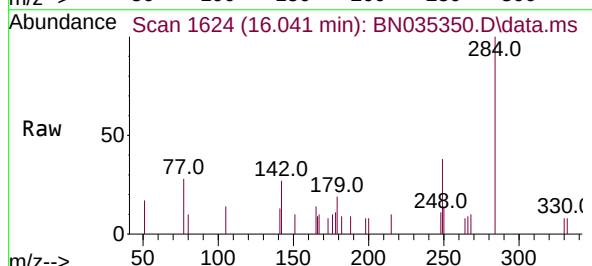
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Supervised By :mohammad  
ahmed

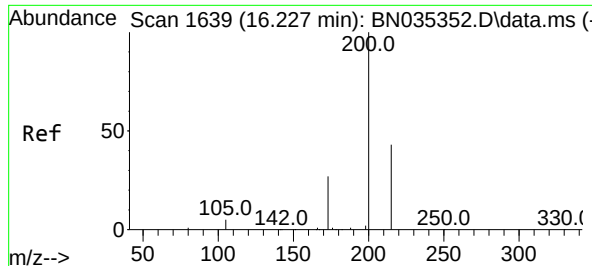
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#22  
Hexachlorobenzene  
Concen: 0.100 ng  
RT: 16.041 min Scan# 1624  
Delta R.T. 0.000 min  
Lab File: BN035350.D  
Acq: 27 Nov 2024 15:34

Tgt Ion:284 Resp: 720  
Ion Ratio Lower Upper  
284 100  
142 35.4 26.7 40.1  
249 32.2 24.6 36.8





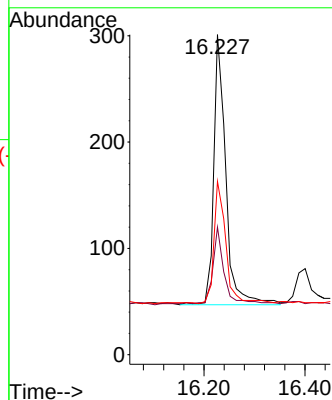
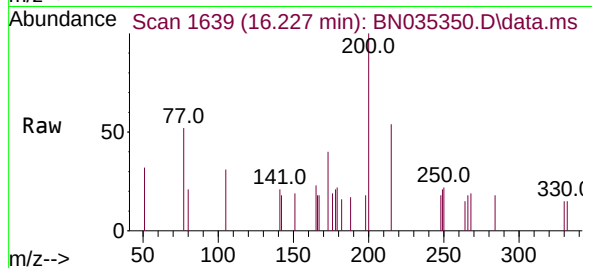
#23  
Atrazine  
Concen: 0.068 ng  
RT: 16.227 min Scan# 1639  
Delta R.T. 0.000 min  
Lab File: BN035350.D  
Acq: 27 Nov 2024 15:34

Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC0.1

Tgt Ion:200 Resp: 42.1  
Ion Ratio Lower Upper  
200 100  
173 39.9 24.1 36.1  
215 54.2 36.9 55.3

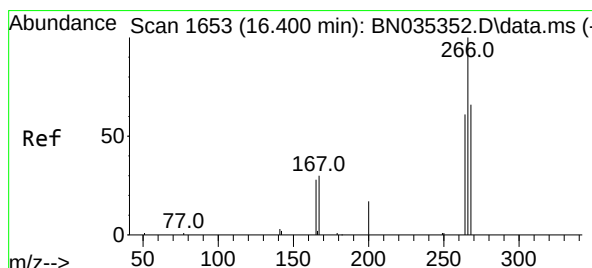
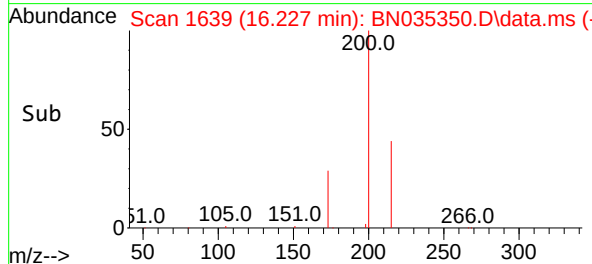
Manual Integrations  
APPROVED

Reviewed By :Yogesh Patel 11/29/2024  
Supervised By :mohammad ahmed 11/29/2024



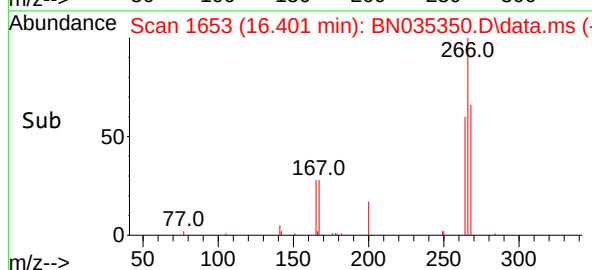
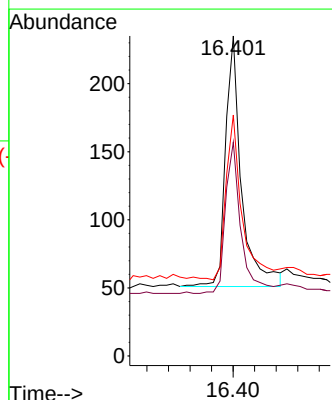
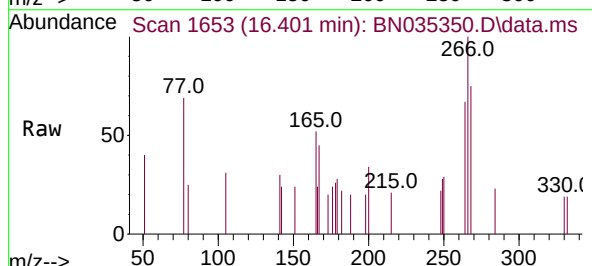
11/29/2024  
Supervised By :mohammad  
ahmed

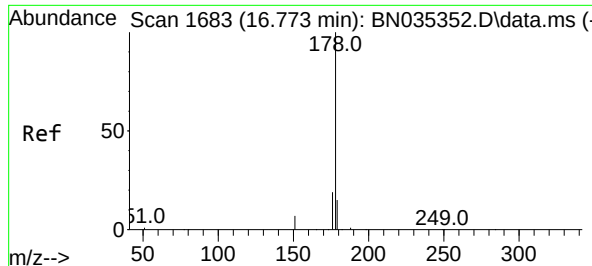
11/29/2024



#24  
Pentachlorophenol  
Concen: 0.114 ng  
RT: 16.401 min Scan# 1653  
Delta R.T. 0.000 min  
Lab File: BN035350.D  
Acq: 27 Nov 2024 15:34

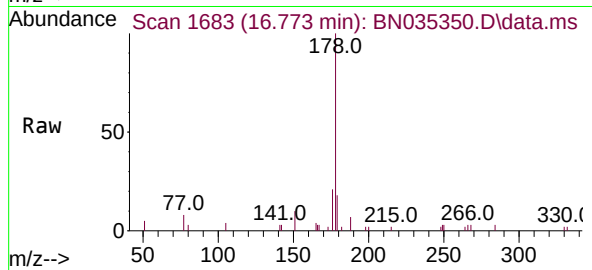
Tgt Ion:266 Resp: 381  
Ion Ratio Lower Upper  
266 100  
264 58.3 42.3 63.5  
268 63.3 43.3 64.9





#25  
Phenanthrene  
Concen: 0.104 ng  
RT: 16.773 min Scan# 1683  
Delta R.T. 0.000 min  
Lab File: BN035350.D  
Acq: 27 Nov 2024 15:34

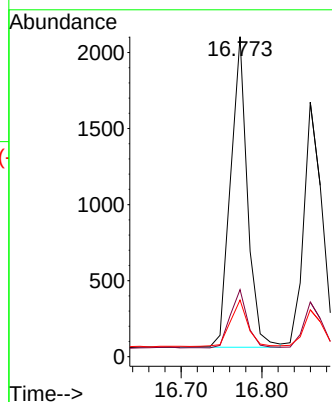
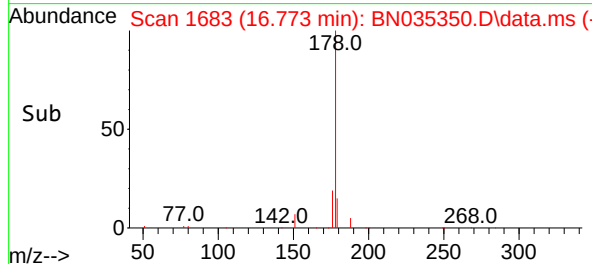
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC0.1



Tgt Ion:178 Resp: 2961  
Ion Ratio Lower Upper  
178 100  
176 18.8 15.4 23.2  
179 15.6 12.3 18.5

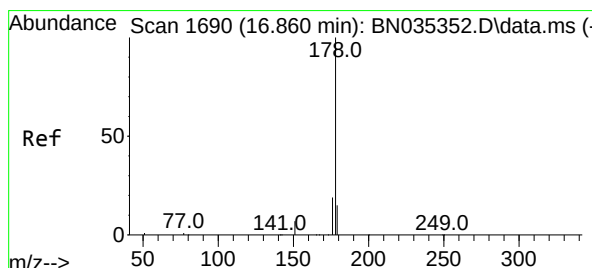
Manual Integrations  
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Supervised By :mohammad ahmed 11/29/2024



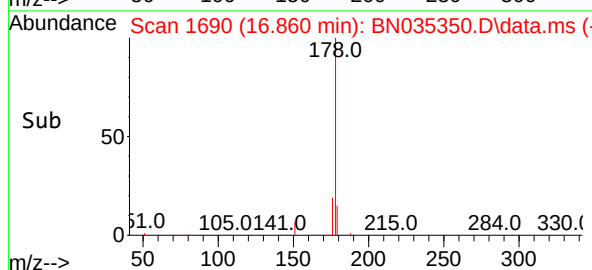
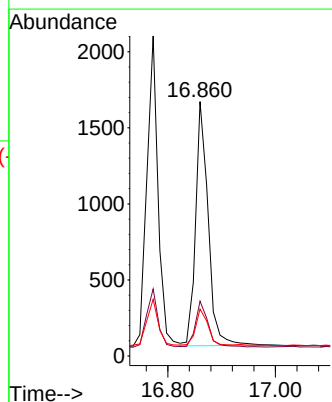
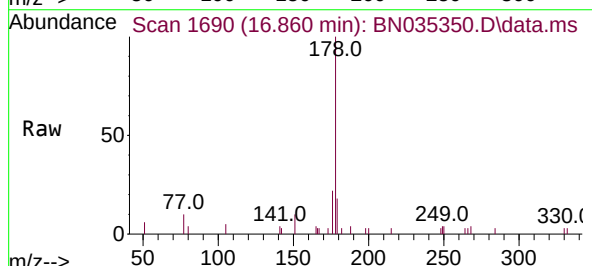
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Supervised By :mohammad  
ahmed

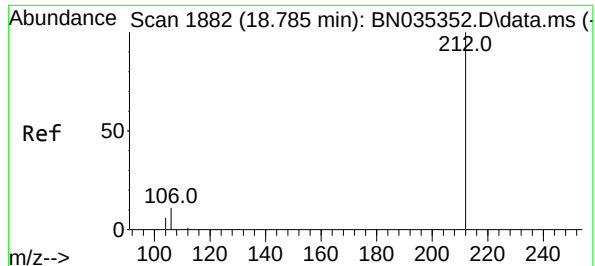
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#26  
Anthracene  
Concen: 0.100 ng  
RT: 16.860 min Scan# 1690  
Delta R.T. 0.000 min  
Lab File: BN035350.D  
Acq: 27 Nov 2024 15:34

Tgt Ion:178 Resp: 2617  
Ion Ratio Lower Upper  
178 100  
176 18.8 15.0 22.6  
179 14.3 12.6 18.8





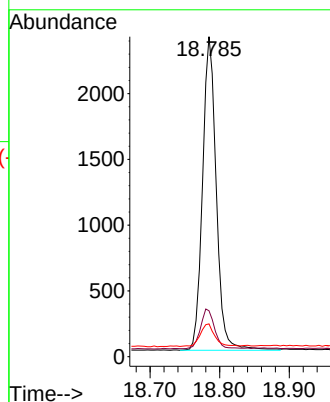
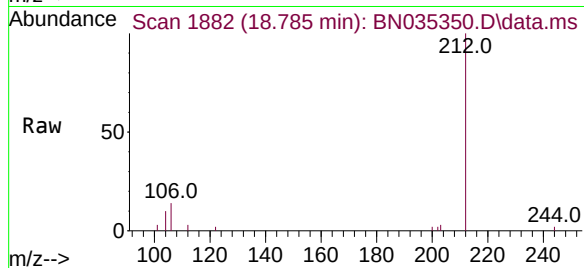
#27  
Fluoranthene-d10  
Concen: 0.098 ng  
RT: 18.785 min Scan# 1882  
Delta R.T. 0.000 min  
Lab File: BN035350.D  
Acq: 27 Nov 2024 15:34

Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC0.1

Tgt Ion:212 Resp: 326  
Ion Ratio Lower Upper  
212 100  
106 12.8 9.2 13.8  
104 7.6 5.3 7.9

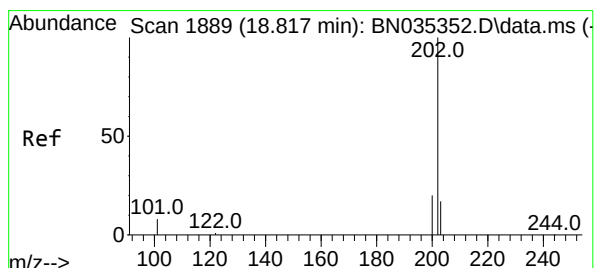
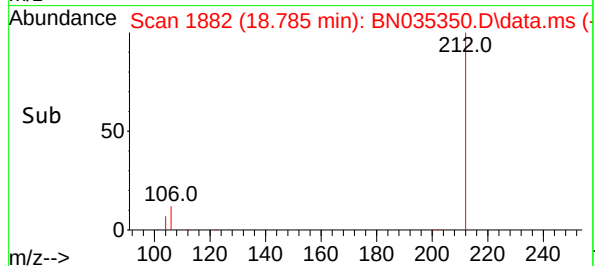
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Supervised By :mohammad ahmed 11/29/2024



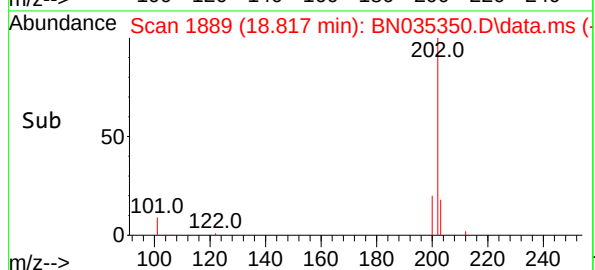
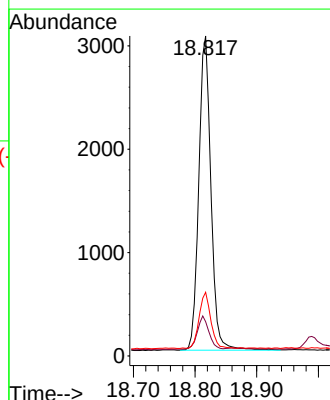
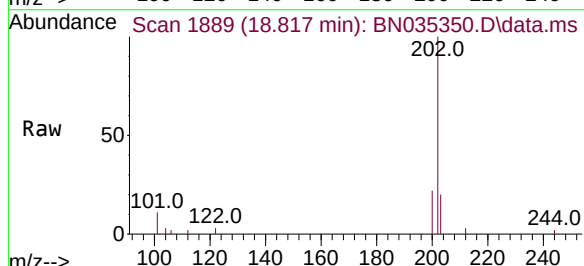
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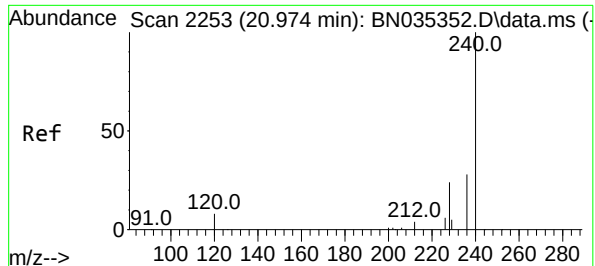
11/29/2024



#28  
Fluoranthene  
Concen: 0.106 ng  
RT: 18.817 min Scan# 1889  
Delta R.T. 0.000 min  
Lab File: BN035350.D  
Acq: 27 Nov 2024 15:34

Tgt Ion:202 Resp: 4173  
Ion Ratio Lower Upper  
202 100  
101 10.2 7.4 11.0  
203 17.3 13.7 20.5





#29

Chrysene-d12

Concen: 0.400 ng

RT: 20.974 min Scan# 211

Delta R.T. 0.000 min

Lab File: BN035350.D

Acq: 27 Nov 2024 15:34

Instrument :

BNA\_N

ClientSampleId :

SSTDICC0.1

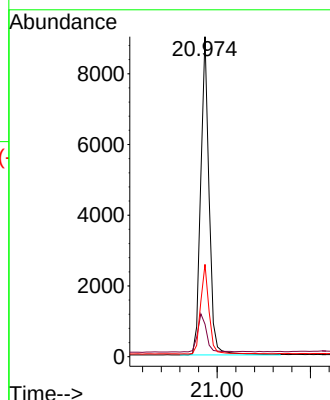
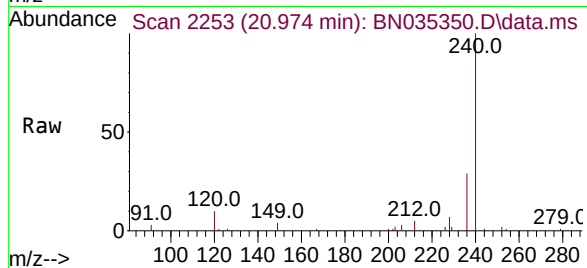
|             |       |           |
|-------------|-------|-----------|
| Tgt Ion:240 | Resp: | 11269     |
| Ion Ratio   | Lower | Upper     |
| 240         | 100   |           |
| 120         | 10.1  | 7.9 11.9  |
| 236         | 28.8  | 22.9 34.3 |

Manual Integrations

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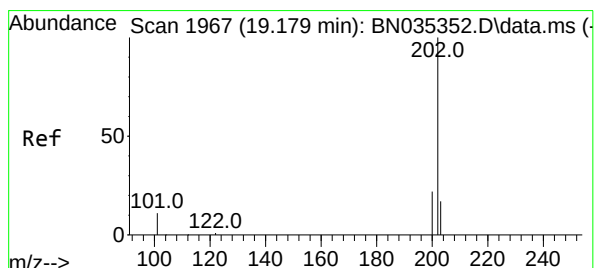
Reviewed By :Yogesh Patel 11/29/2024

Supervised By :mohammad ahmed 11/29/2024



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#30

Pyrene

Concen: 0.119 ng

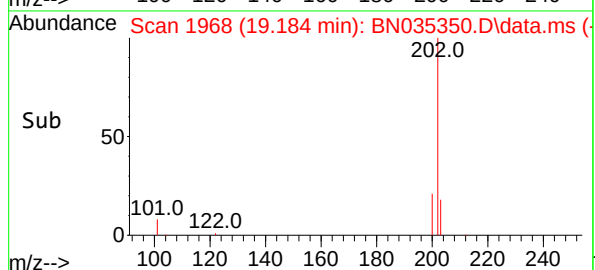
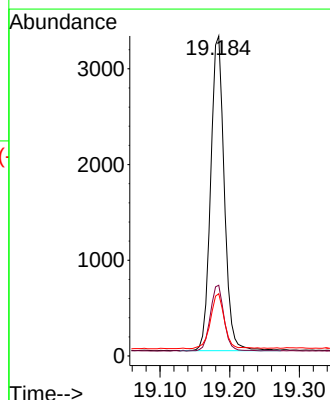
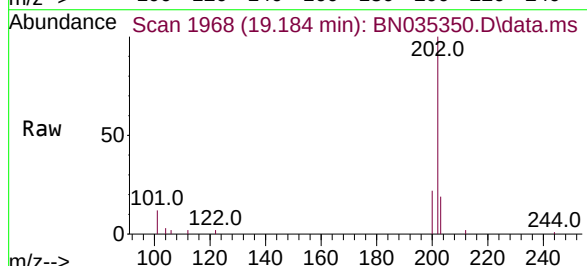
RT: 19.184 min Scan# 1968

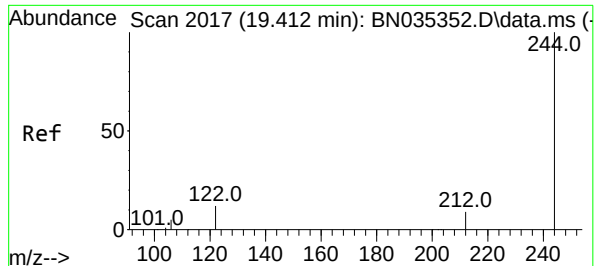
Delta R.T. 0.005 min

Lab File: BN035350.D

Acq: 27 Nov 2024 15:34

|             |       |           |
|-------------|-------|-----------|
| Tgt Ion:202 | Resp: | 4461      |
| Ion Ratio   | Lower | Upper     |
| 202         | 100   |           |
| 200         | 21.1  | 17.0 25.4 |
| 203         | 18.0  | 14.3 21.5 |





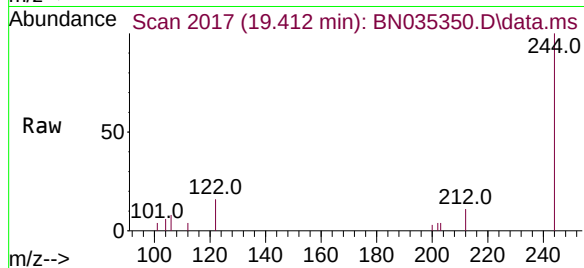
#31  
Terphenyl-d14  
Concen: 0.099 ng  
RT: 19.412 min Scan# 2017  
Delta R.T. 0.000 min  
Lab File: BN035350.D  
Acq: 27 Nov 2024 15:34

Instrument :

BNA\_N

ClientSampleId :

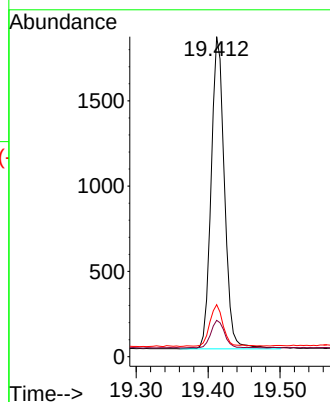
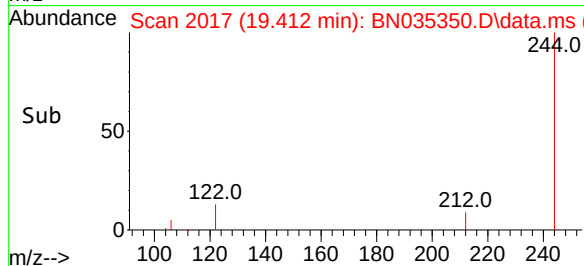
SSTDICC0.1



Tgt Ion:244 Resp: 2344  
Ion Ratio Lower Upper  
244 100  
212 11.4 8.1 12.1  
122 16.3 10.3 15.5

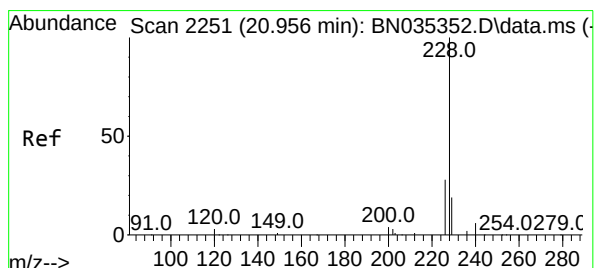
Manual Integrations  
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Supervised By :mohammad ahmed 11/29/2024



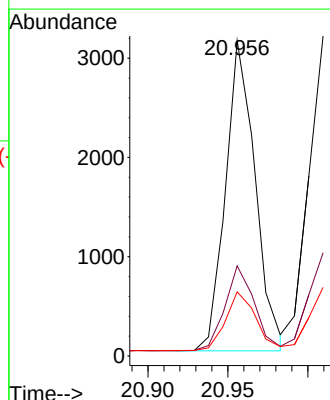
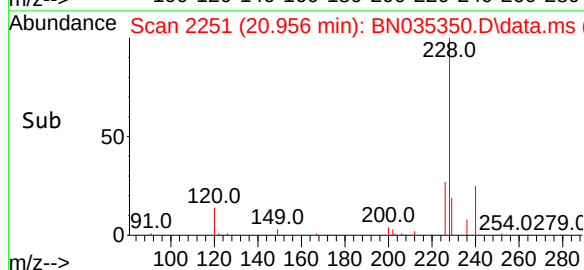
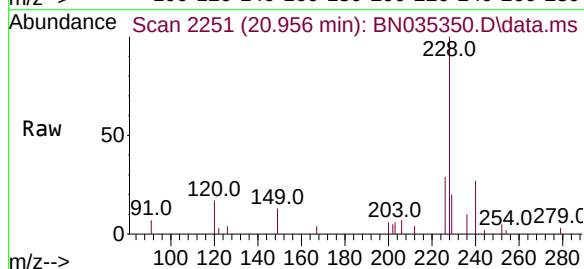
11/29/2024  
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ahmed

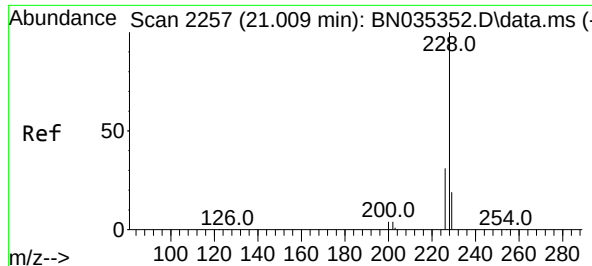
11/29/2024



#32  
Benzo(a)anthracene  
Concen: 0.103 ng  
RT: 20.956 min Scan# 2251  
Delta R.T. 0.000 min  
Lab File: BN035350.D  
Acq: 27 Nov 2024 15:34

Tgt Ion:228 Resp: 4031  
Ion Ratio Lower Upper  
228 100  
226 28.5 22.5 33.7  
229 20.4 15.8 23.8





#33

Chrysene

Concen: 0.106 ng

RT: 21.010 min Scan# 21

Delta R.T. 0.000 min

Lab File: BN035350.D

Acq: 27 Nov 2024 15:34

Instrument :

BNA\_N

ClientSampleId :

SSTDICC0.1

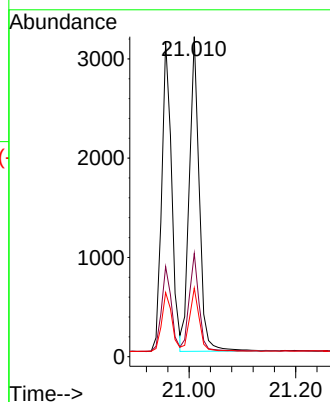
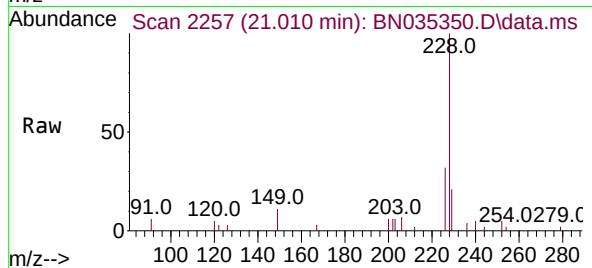
|           |       |       |      |
|-----------|-------|-------|------|
| Tgt Ion:  | 228   | Resp: | 412  |
| Ion Ratio | Lower | Upper |      |
| 228       | 100   |       |      |
| 226       | 32.3  | 24.6  | 37.0 |
| 229       | 21.5  | 15.9  | 23.9 |

## Manual Integrations

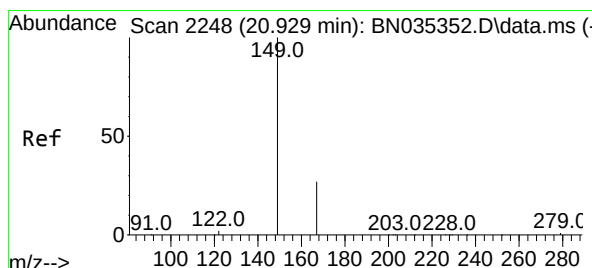
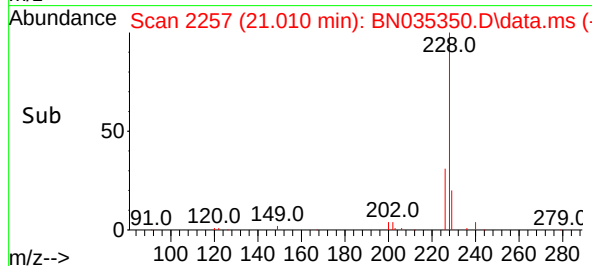
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Reviewed By :Yogesh Patel 11/29/2024

Supervised By :mohammad ahmed 11/29/2024

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Supervised By :mohammad  
ahmed

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#34

Bis(2-ethylhexyl)phthalate

Concen: 0.097 ng

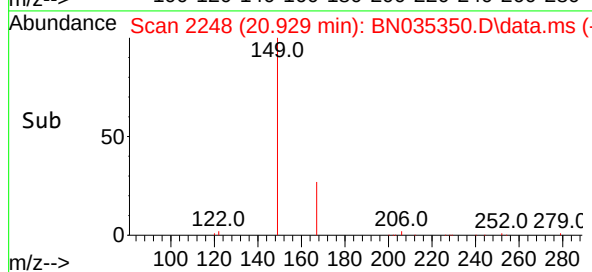
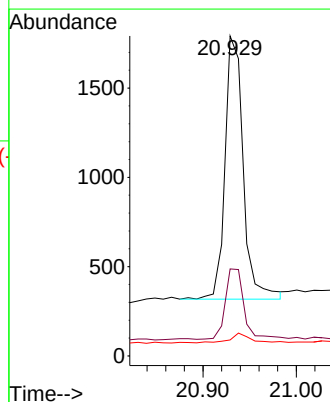
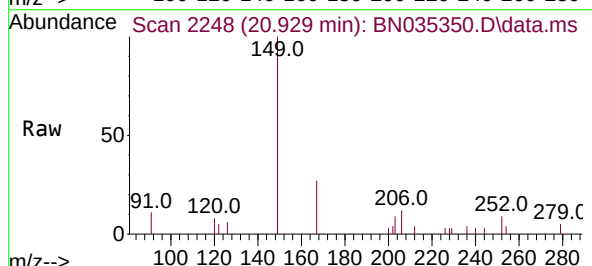
RT: 20.929 min Scan# 2248

Delta R.T. 0.000 min

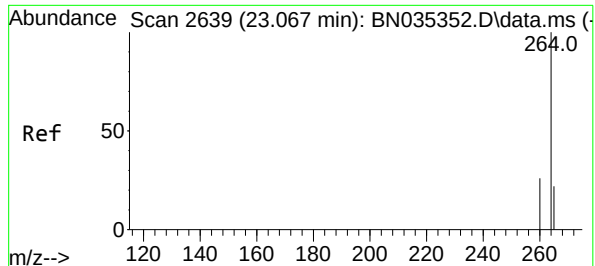
Lab File: BN035350.D

Acq: 27 Nov 2024 15:34

|           |       |       |      |
|-----------|-------|-------|------|
| Tgt Ion:  | 149   | Resp: | 1999 |
| Ion Ratio | Lower | Upper |      |
| 149       | 100   |       |      |
| 167       | 27.5  | 22.2  | 33.4 |
| 279       | 3.6   | 2.7   | 4.1  |

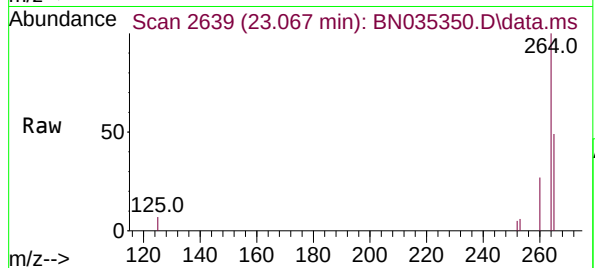






#35  
Perylene-d12  
Concen: 0.400 ng  
RT: 23.067 min Scan# 2639  
Delta R.T. 0.000 min  
Lab File: BN035350.D  
Acq: 27 Nov 2024 15:34

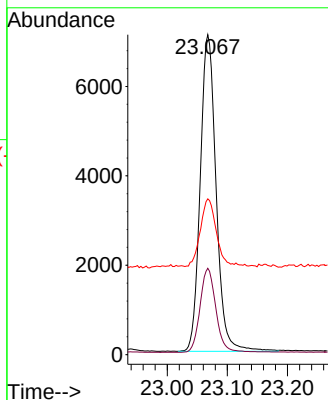
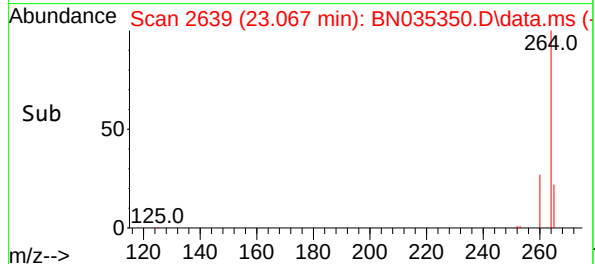
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC0.1



Tgt Ion:264 Resp: 13004  
Ion Ratio Lower Upper  
264 100  
260 27.0 21.4 32.2  
265 48.7 40.2 60.4

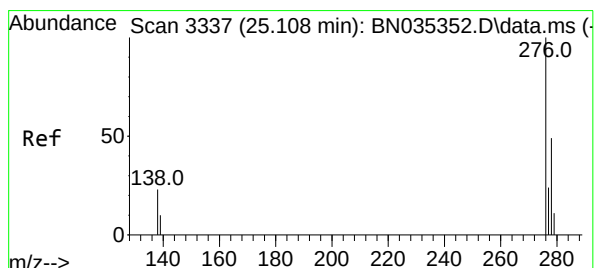
Manual Integrations  
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Supervised By :mohammad ahmed 11/29/2024



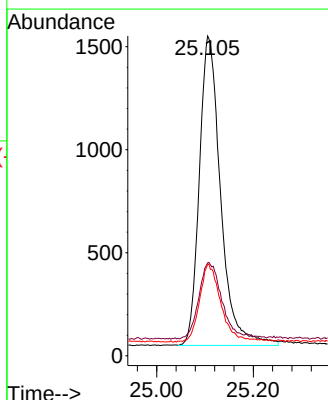
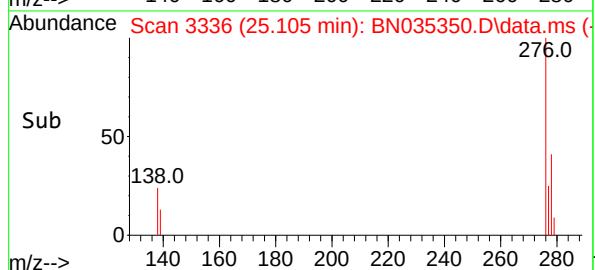
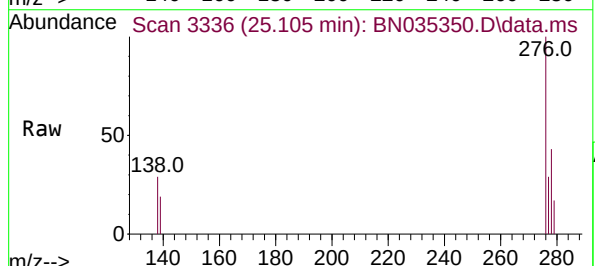
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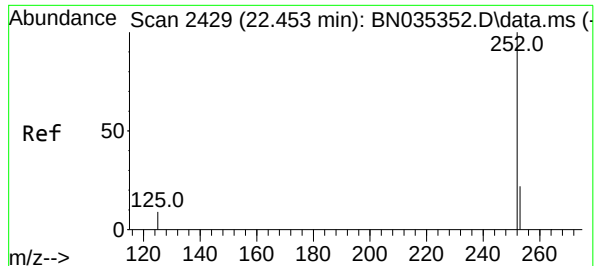
11/29/2024



#36  
Indeno(1,2,3-cd)pyrene  
Concen: 0.088 ng  
RT: 25.105 min Scan# 3336  
Delta R.T. -0.003 min  
Lab File: BN035350.D  
Acq: 27 Nov 2024 15:34

Tgt Ion:276 Resp: 4586  
Ion Ratio Lower Upper  
276 100  
138 26.2 19.4 29.0  
277 25.6 19.8 29.6





#37

Benzo(b)fluoranthene

Concen: 0.097 ng

RT: 22.456 min Scan# 2430

Delta R.T. 0.003 min

Lab File: BN035350.D

Acq: 27 Nov 2024 15:34

Instrument :

BNA\_N

ClientSampleId :

SSTDICC0.1

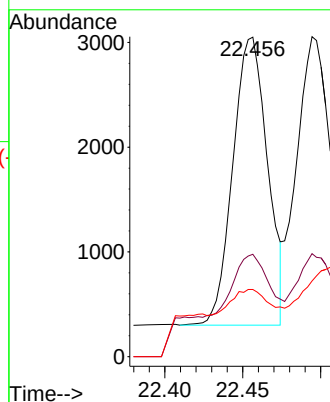
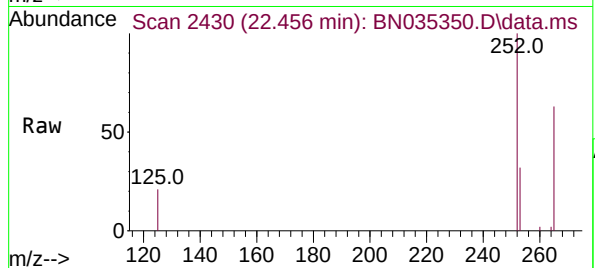
|             |       |           |
|-------------|-------|-----------|
| Tgt Ion:252 | Resp: | 424       |
| Ion Ratio   | Lower | Upper     |
| 252         | 100   |           |
| 253         | 32.1  | 19.6 29.4 |
| 125         | 21.0  | 9.6 14.4  |

Manual Integrations

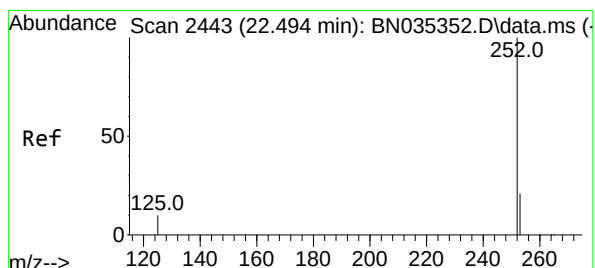
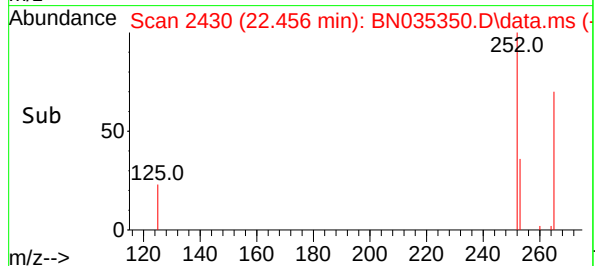
APPROVED

Reviewed By :Yogesh Patel 11/29/2024

Supervised By :mohammad ahmed 11/29/2024

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Supervised By :mohammad  
ahmed

11/29/2024



#38

Benzo(k)fluoranthene

Concen: 0.107 ng m

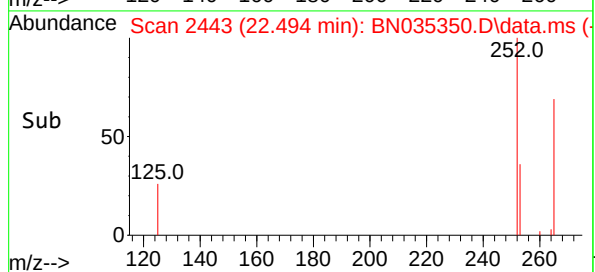
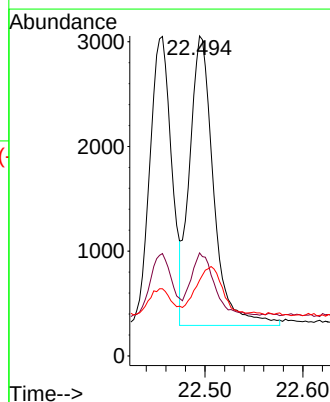
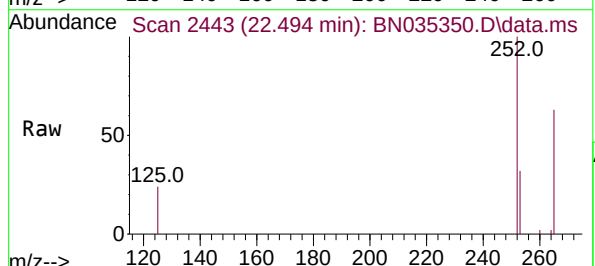
RT: 22.494 min Scan# 2443

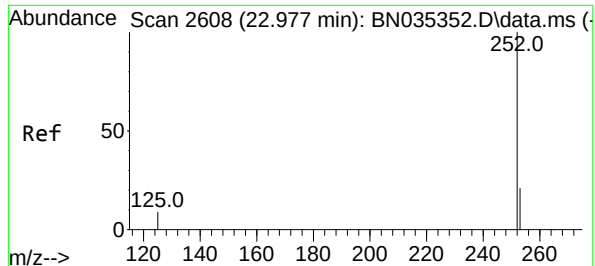
Delta R.T. 0.000 min

Lab File: BN035350.D

Acq: 27 Nov 2024 15:34

|             |       |           |
|-------------|-------|-----------|
| Tgt Ion:252 | Resp: | 4695      |
| Ion Ratio   | Lower | Upper     |
| 252         | 100   |           |
| 253         | 32.2  | 19.5 29.3 |
| 125         | 23.7  | 10.2 15.4 |





#39

Benzo(a)pyrene

Concen: 0.102 ng

RT: 22.977 min Scan# 2608

Delta R.T. 0.000 min

Lab File: BN035350.D

Acq: 27 Nov 2024 15:34

Instrument :

BNA\_N

ClientSampleId :

SSTDICC0.1

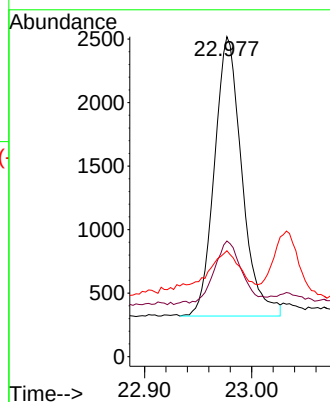
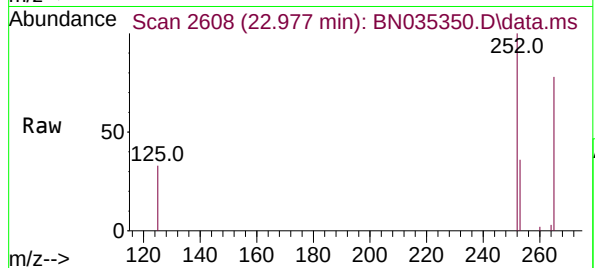
|           |       |       |      |
|-----------|-------|-------|------|
| Tgt Ion:  | 252   | Resp: | 391  |
| Ion Ratio | Lower | Upper |      |
| 252       | 100   |       |      |
| 253       | 36.1  | 20.2  | 30.4 |
| 125       | 33.1  | 10.9  | 16.3 |

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 11/29/2024

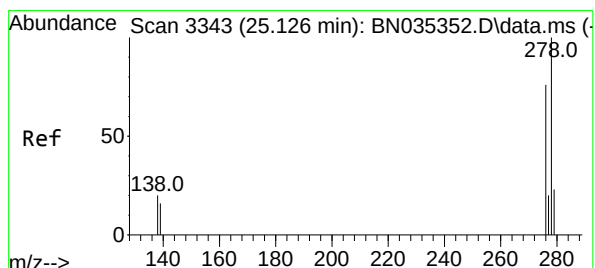
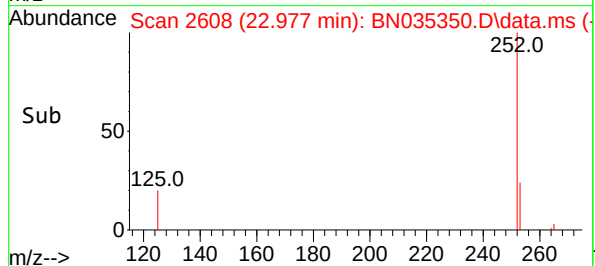
Supervised By :mohammad ahmed 11/29/2024



11/29/2024

Supervised By :mohammad  
ahmed

11/29/2024



#40

Dibenzo(a,h)anthracene

Concen: 0.087 ng

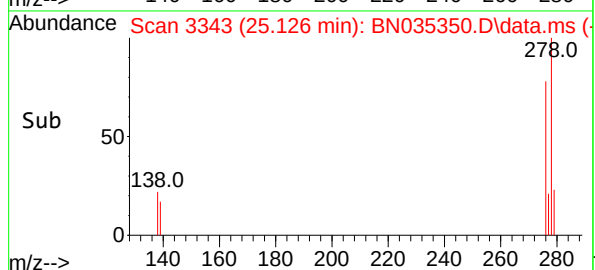
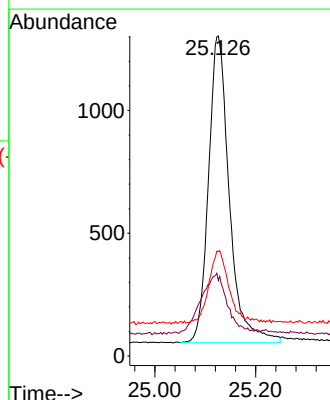
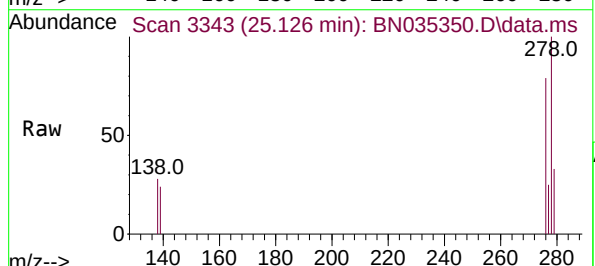
RT: 25.126 min Scan# 3343

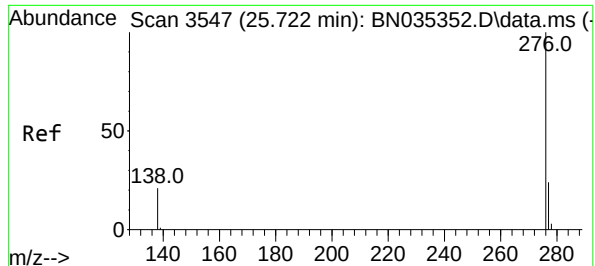
Delta R.T. 0.000 min

Lab File: BN035350.D

Acq: 27 Nov 2024 15:34

|           |       |       |      |
|-----------|-------|-------|------|
| Tgt Ion:  | 278   | Resp: | 3588 |
| Ion Ratio | Lower | Upper |      |
| 278       | 100   |       |      |
| 139       | 23.6  | 14.2  | 21.4 |
| 279       | 32.6  | 20.5  | 30.7 |





#41

Benzo(g,h,i)perylene

Concen: 0.088 ng

RT: 25.725 min Scan# 3

Delta R.T. 0.003 min

Lab File: BN035350.D

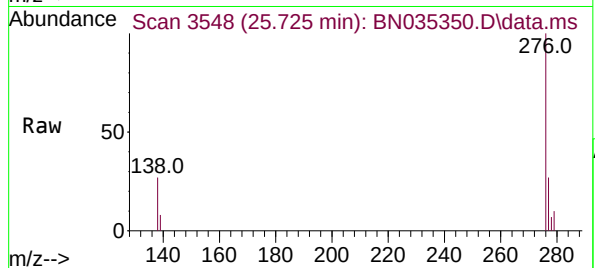
Acq: 27 Nov 2024 15:34

Instrument :

BNA\_N

ClientSampleId :

SSTDICC0.1



Tgt Ion:276 Resp: 386

Ion Ratio Lower Upper

276 100

277 26.9 19.9 29.9

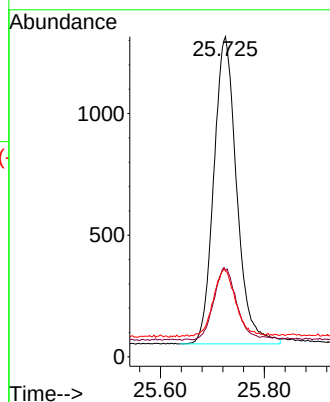
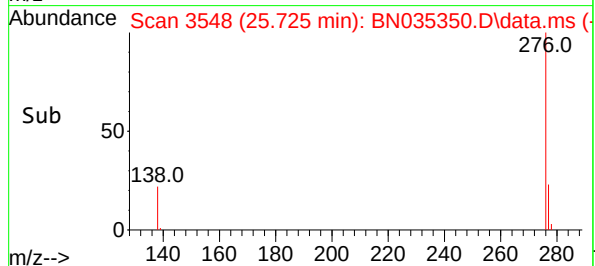
138 26.8 17.8 26.8

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 11/29/2024

Supervised By :mohammad ahmed 11/29/2024



11/29/2024

Supervised By :mohammad  
ahmed

11/29/2024

Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN112724\  
 Data File : BN035351.D  
 Acq On : 27 Nov 2024 16:10  
 Operator : RC/JU  
 Sample : SSTDICC0.2  
 Misc :  
 ALS Vial : 3 Sample Multiplier: 1

Instrument :  
 BNA\_N  
 ClientSampleId :  
 SSTDICC0.2

Manual Integrations  
 APPROVED

Reviewed By :Yogesh Patel 11/29/2024  
 Supervised By :mohammad ahmed 11/29/2024

Quant Time: Nov 27 22:52:33 2024  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\8270-SIM-BN112724.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Wed Nov 27 22:48:24 2024  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc  | Units | Dev(Min) |
|-------------------------------|--------|------|----------|-------|-------|----------|
| -----                         |        |      |          |       |       |          |
| Internal Standards            |        |      |          |       |       |          |
| 1) 1,4-Dichlorobenzene-d4     | 7.308  | 152  | 2084     | 0.400 | ng    | 0.00     |
| 7) Naphthalene-d8             | 10.063 | 136  | 5334     | 0.400 | ng    | # 0.01   |
| 13) Acenaphthene-d10          | 13.967 | 164  | 3808     | 0.400 | ng    | 0.00     |
| 19) Phenanthrene-d10          | 16.735 | 188  | 9904     | 0.400 | ng    | 0.00     |
| 29) Chrysene-d12              | 20.974 | 240  | 9963     | 0.400 | ng    | 0.00     |
| 35) Perylene-d12              | 23.070 | 264  | 11158    | 0.400 | ng    | 0.00     |
|                               |        |      |          |       |       |          |
| System Monitoring Compounds   |        |      |          |       |       |          |
| 4) 2-Fluorophenol             | 4.968  | 112  | 1159     | 0.219 | ng    | 0.00     |
| 5) Phenol-d6                  | 6.513  | 99   | 1236     | 0.186 | ng    | 0.00     |
| 8) Nitrobenzene-d5            | 8.450  | 82   | 618m     | 0.133 | ng    | 0.01     |
| 11) 2-Methylnaphthalene-d10   | 11.661 | 152  | 1608     | 0.169 | ng    | 0.00     |
| 14) 2,4,6-Tribromophenol      | 15.475 | 330  | 492      | 0.179 | ng    | 0.00     |
| 15) 2-Fluorobiphenyl          | 12.574 | 172  | 2838     | 0.184 | ng    | 0.00     |
| 27) Fluoranthene-d10          | 18.784 | 212  | 5379     | 0.177 | ng    | 0.00     |
| 31) Terphenyl-d14             | 19.416 | 244  | 3871     | 0.185 | ng    | 0.00     |
|                               |        |      |          |       |       |          |
| Target Compounds              |        |      |          |       |       | Qvalue   |
| 2) 1,4-Dioxane                | 3.003  | 88   | 435      | 0.230 | ng    | # 95     |
| 3) n-Nitrosodimethylamine     | 3.299  | 42   | 315      | 0.179 | ng    | # 87     |
| 6) bis(2-Chloroethyl)ether    | 6.759  | 93   | 1064     | 0.214 | ng    | 99       |
| 9) Naphthalene                | 10.105 | 128  | 2744     | 0.197 | ng    | 96       |
| 10) Hexachlorobutadiene       | 10.404 | 225  | 646      | 0.158 | ng    | # 99     |
| 12) 2-Methylnaphthalene       | 11.737 | 142  | 1910     | 0.186 | ng    | 98       |
| 16) Acenaphthylene            | 13.678 | 152  | 3047     | 0.187 | ng    | 99       |
| 17) Acenaphthene              | 14.031 | 154  | 2064     | 0.194 | ng    | 99       |
| 18) Fluorene                  | 15.026 | 166  | 2949     | 0.188 | ng    | 99       |
| 20) 4,6-Dinitro-2-methylph... | 15.132 | 198  | 153      | 0.074 | ng    | # 53     |
| 21) 4-Bromophenyl-phenylether | 15.941 | 248  | 1081     | 0.171 | ng    | 96       |
| 22) Hexachlorobenzene         | 16.040 | 284  | 1318     | 0.201 | ng    | 98       |
| 23) Atrazine                  | 16.227 | 200  | 770      | 0.136 | ng    | 93       |
| 24) Pentachlorophenol         | 16.400 | 266  | 445      | 0.145 | ng    | # 84     |
| 25) Phenanthrene              | 16.773 | 178  | 5182     | 0.199 | ng    | 99       |
| 26) Anthracene                | 16.860 | 178  | 4571     | 0.191 | ng    | 100      |
| 28) Fluoranthene              | 18.817 | 202  | 6914     | 0.193 | ng    | 100      |
| 30) Pyrene                    | 19.184 | 202  | 7198     | 0.217 | ng    | 100      |
| 32) Benzo(a)anthracene        | 20.956 | 228  | 6691     | 0.193 | ng    | 99       |
| 33) Chrysene                  | 21.009 | 228  | 7234     | 0.211 | ng    | 99       |
| 34) Bis(2-ethylhexyl)phtha... | 20.938 | 149  | 2779     | 0.153 | ng    | # 99     |
| 36) Indeno(1,2,3-cd)pyrene    | 25.108 | 276  | 8305     | 0.187 | ng    | 100      |
| 37) Benzo(b)fluoranthene      | 22.456 | 252  | 7522     | 0.200 | ng    | # 94     |
| 38) Benzo(k)fluoranthene      | 22.497 | 252  | 7675m    | 0.204 | ng    |          |
| 39) Benzo(a)pyrene            | 22.980 | 252  | 6450     | 0.195 | ng    | # 90     |
| 40) Dibenzo(a,h)anthracene    | 25.128 | 278  | 6620     | 0.188 | ng    | 96       |
| 41) Benzo(g,h,i)perylene      | 25.725 | 276  | 6908     | 0.184 | ng    | 99       |
| -----                         |        |      |          |       |       |          |

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

Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN112724\  
 Data File : BN035351.D  
 Acq On : 27 Nov 2024 16:10  
 Operator : RC/JU  
 Sample : SSTDICC0.2  
 Misc :  
 ALS Vial : 3 Sample Multiplier: 1

## Instrument :

BNA\_N

## ClientSampleId :

SSTDICC0.2

## Manual Integrations

## APPROVED

Reviewed By :Yogesh Patel 11/29/2024

Supervised By :mohammad ahmed 11/29/2024

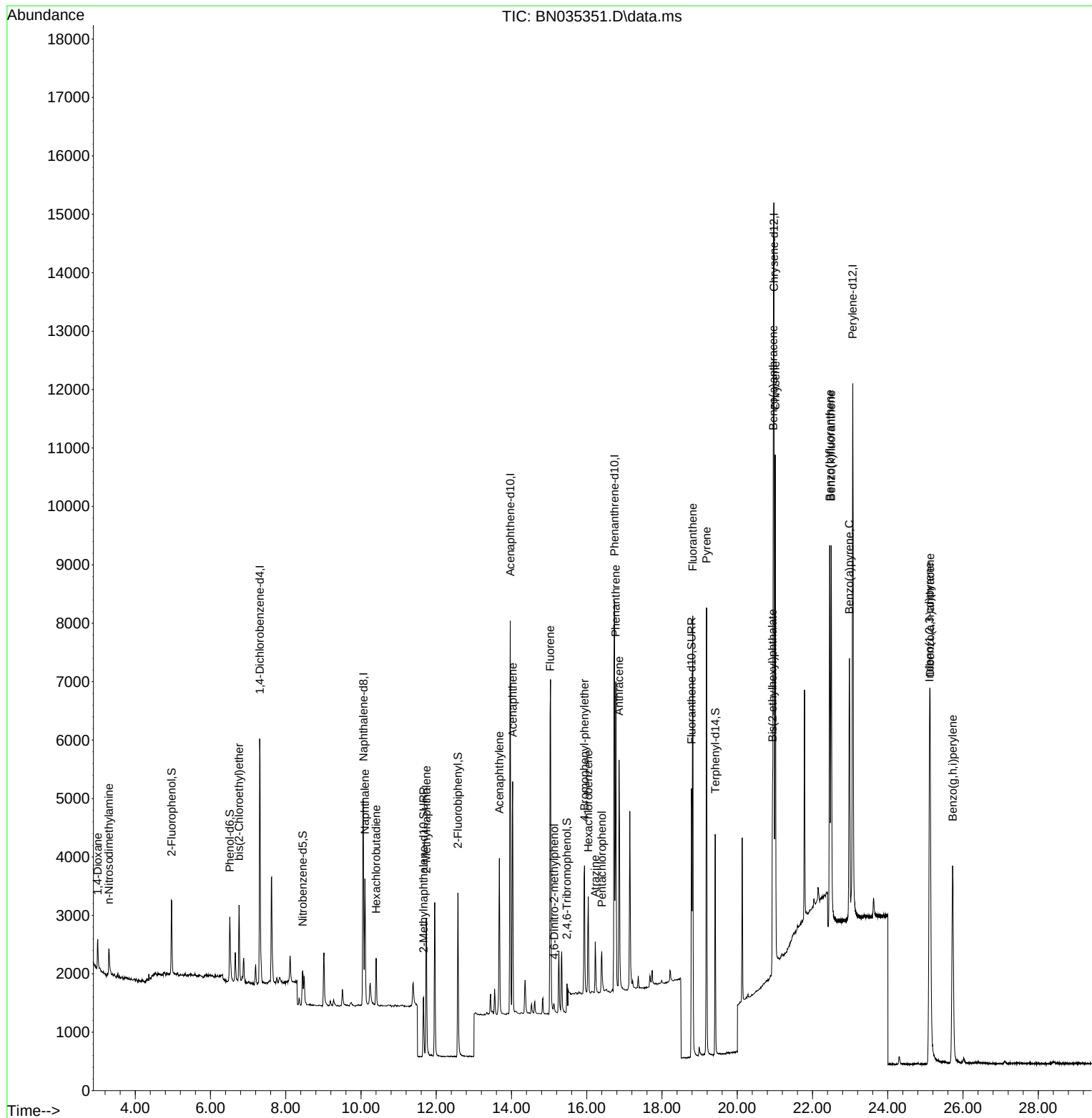
Quant Time: Nov 27 22:52:33 2024

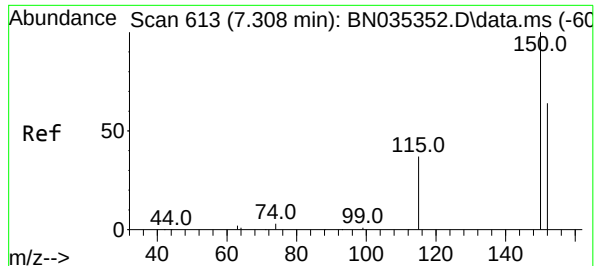
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\8270-SIM-BN112724.M

Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

QLast Update : Wed Nov 27 22:48:24 2024

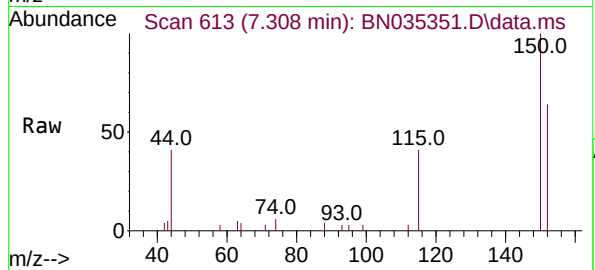
Response via : Initial Calibration





#1  
1,4-Dichlorobenzene-d4  
Concen: 0.400 ng  
RT: 7.308 min Scan# 61  
Delta R.T. -0.000 min  
Lab File: BN035351.D  
Acq: 27 Nov 2024 16:10

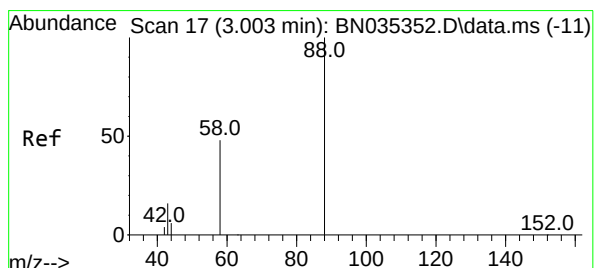
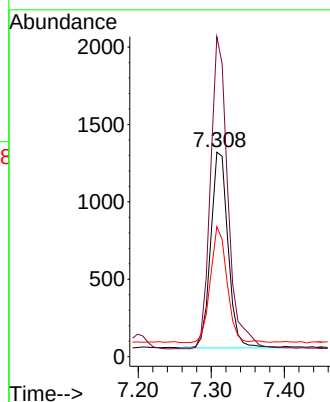
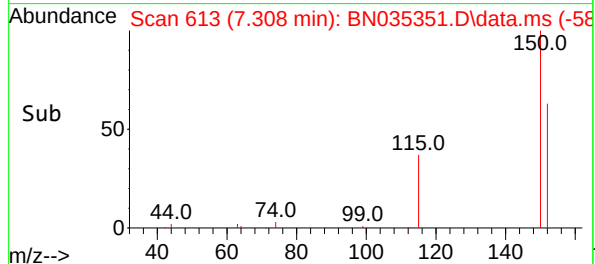
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC0.2



Tgt Ion: 152 Resp: 2084  
Ion Ratio Lower Upper  
152 100  
150 156.5 124.0 186.0  
115 63.5 49.6 74.4

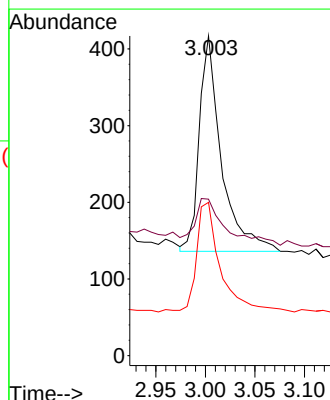
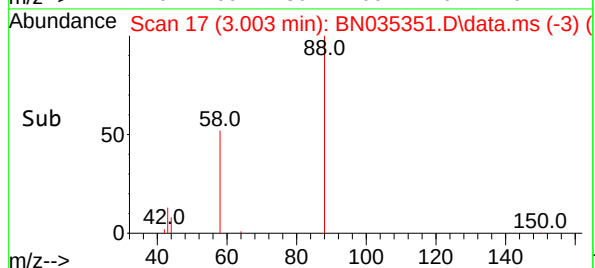
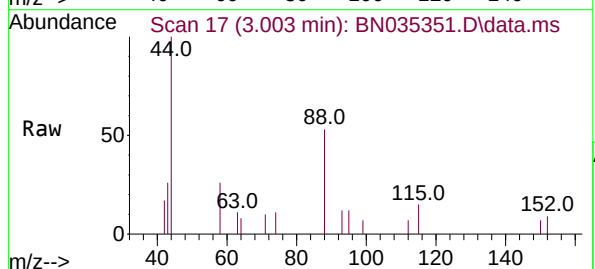
Manual Integrations  
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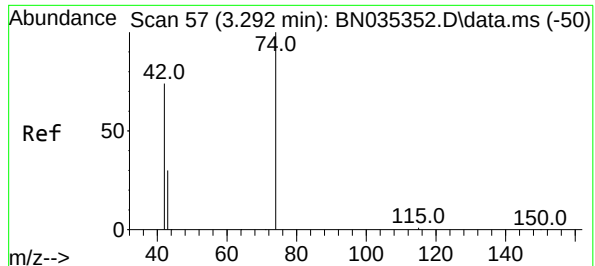
Reviewed By :Yogesh Patel 11/29/2024  
Supervised By :mohammad ahmed 11/29/2024



#2  
1,4-Dioxane  
Concen: 0.230 ng  
RT: 3.003 min Scan# 17  
Delta R.T. -0.000 min  
Lab File: BN035351.D  
Acq: 27 Nov 2024 16:10

Tgt Ion: 88 Resp: 435  
Ion Ratio Lower Upper  
88 100  
43 29.9 17.2 25.8#  
58 55.2 44.5 66.7





#3  
n-Nitrosodimethylamine  
Concen: 0.179 ng  
RT: 3.299 min Scan# 50  
Delta R.T. 0.007 min  
Lab File: BN035351.D  
Acq: 27 Nov 2024 16:10

Instrument :

BNA\_N

ClientSampleId :

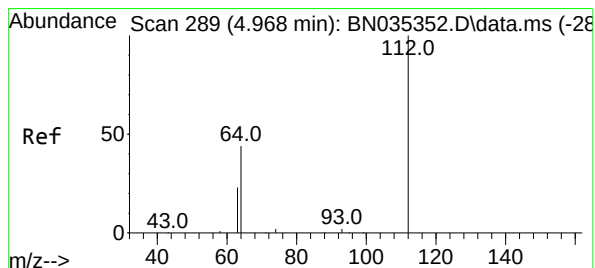
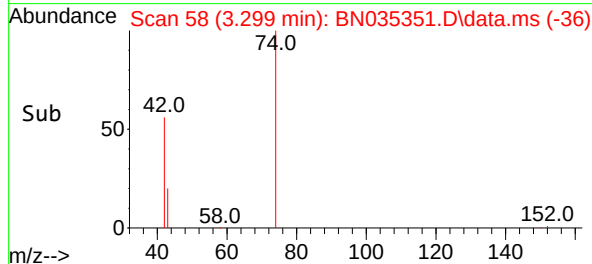
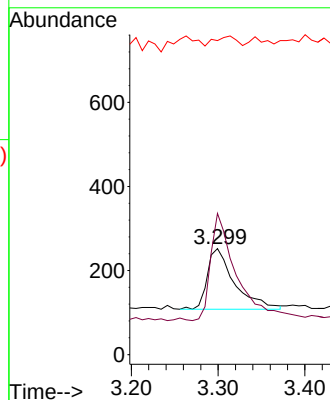
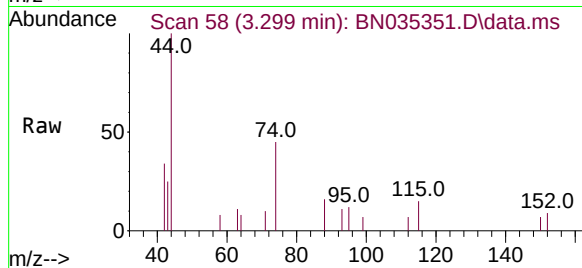
SSTDICC0.2

Tgt Ion: 42 Resp: 315  
Ion Ratio Lower Upper  
42 100  
74 172.4 124.9 187.3  
44 16.2 2.2 3.4

Manual Integrations

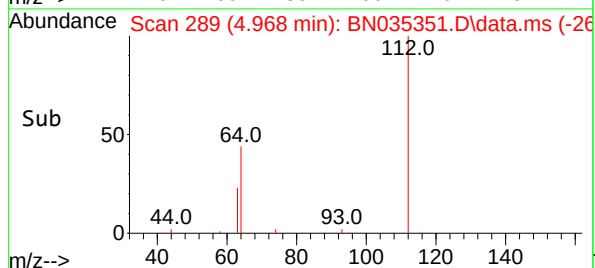
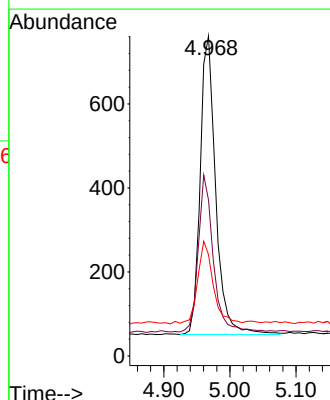
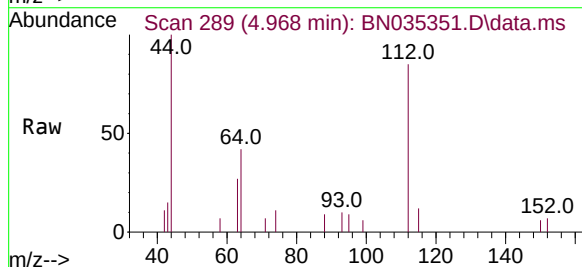
APPROVED

Reviewed By :Yogesh Patel 11/29/2024  
Supervised By :mohammad ahmed 11/29/2024

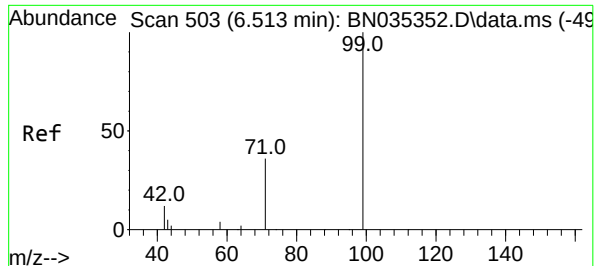


#4  
2-Fluorophenol  
Concen: 0.219 ng  
RT: 4.968 min Scan# 289  
Delta R.T. -0.000 min  
Lab File: BN035351.D  
Acq: 27 Nov 2024 16:10

Tgt Ion:112 Resp: 1159  
Ion Ratio Lower Upper  
112 100  
64 51.2 39.8 59.8  
63 27.9 21.0 31.6







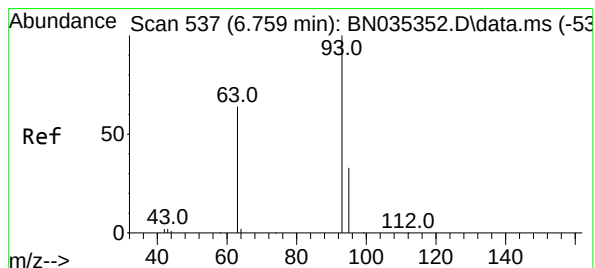
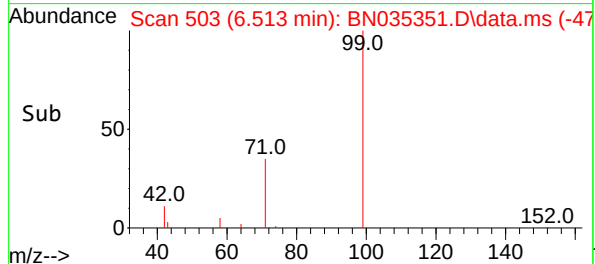
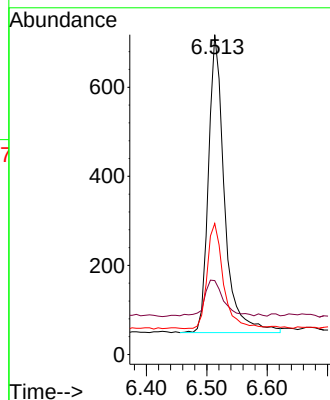
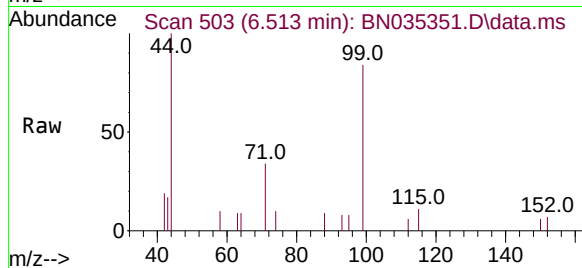
#5  
Phenol-d6  
Concen: 0.186 ng  
RT: 6.513 min Scan# 503  
Delta R.T. -0.000 min  
Lab File: BN035351.D  
Acq: 27 Nov 2024 16:10

Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC0.2

Tgt Ion: 99 Resp: 1230  
Ion Ratio Lower Upper  
99 100  
42 15.0 11.4 17.2  
71 35.8 29.3 43.9

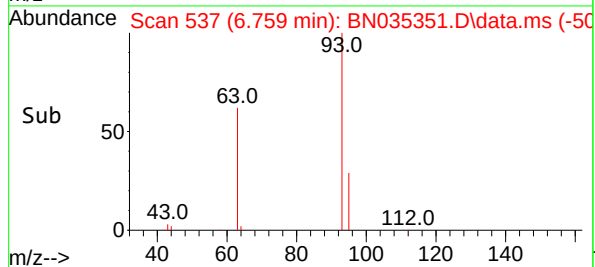
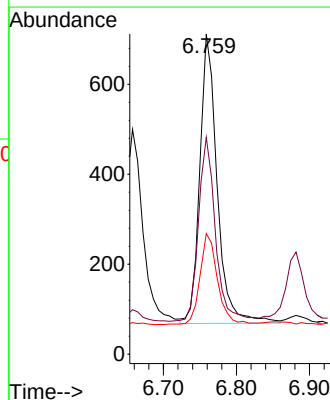
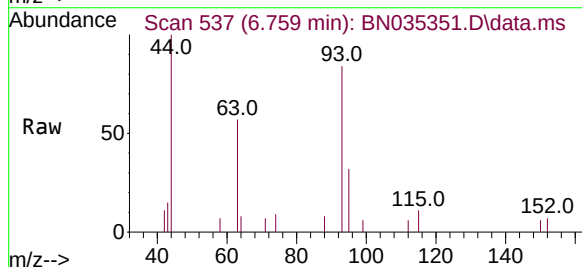
Manual Integrations  
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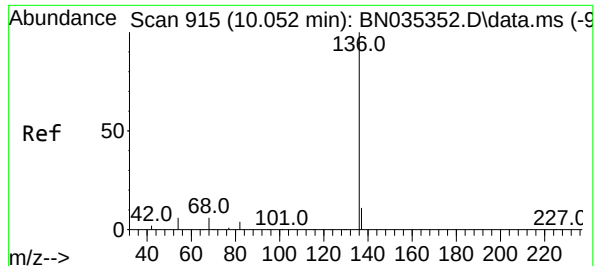
Reviewed By :Yogesh Patel 11/29/2024  
Supervised By :mohammad ahmed 11/29/2024



#6  
bis(2-Chloroethyl)ether  
Concen: 0.214 ng  
RT: 6.759 min Scan# 537  
Delta R.T. -0.000 min  
Lab File: BN035351.D  
Acq: 27 Nov 2024 16:10

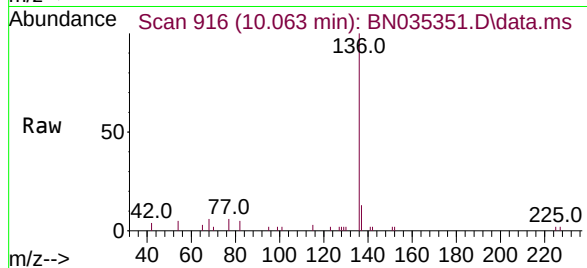
Tgt Ion: 93 Resp: 1064  
Ion Ratio Lower Upper  
93 100  
63 62.2 50.4 75.6  
95 31.6 25.7 38.5





#7  
Naphthalene-d8  
Concen: 0.400 ng  
RT: 10.063 min Scan# 915  
Delta R.T. 0.011 min  
Lab File: BN035351.D  
Acq: 27 Nov 2024 16:10

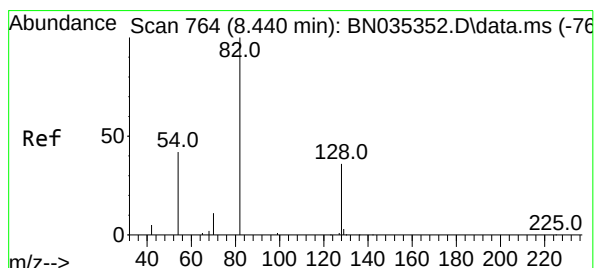
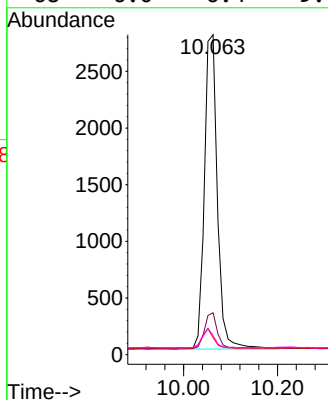
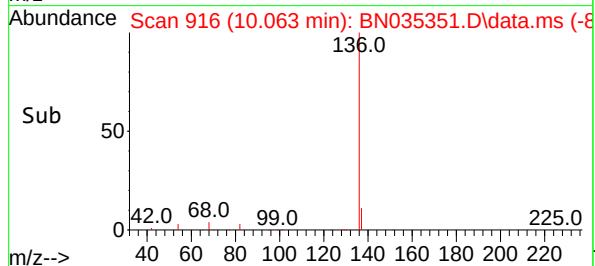
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC0.2



Tgt Ion: 136 Resp: 5334  
Ion Ratio Lower Upper  
136 100  
137 13.1 10.2 15.2  
54 5.3 6.1 9.1  
68 6.0 6.4 9.6#

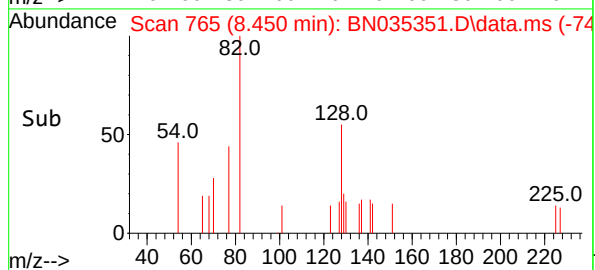
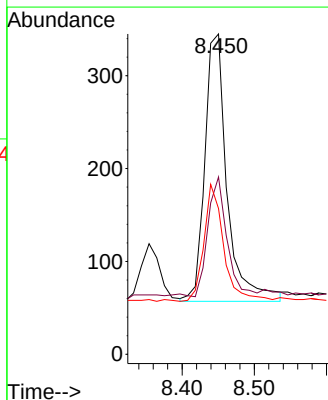
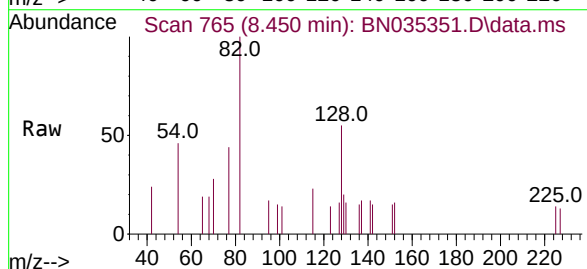
Manual Integrations  
APPROVED

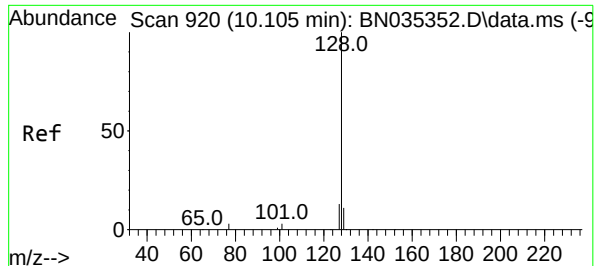
Reviewed By :Yogesh Patel 11/29/2024  
Supervised By :mohammad ahmed 11/29/2024



#8  
Nitrobenzene-d5  
Concen: 0.133 ng m  
RT: 8.450 min Scan# 765  
Delta R.T. 0.011 min  
Lab File: BN035351.D  
Acq: 27 Nov 2024 16:10

Tgt Ion: 82 Resp: 618  
Ion Ratio Lower Upper  
82 100  
128 55.4 33.4 50.0#  
54 45.5 36.7 55.1





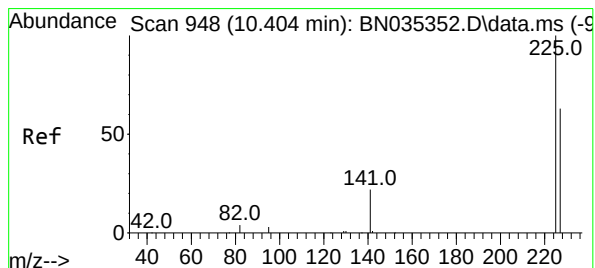
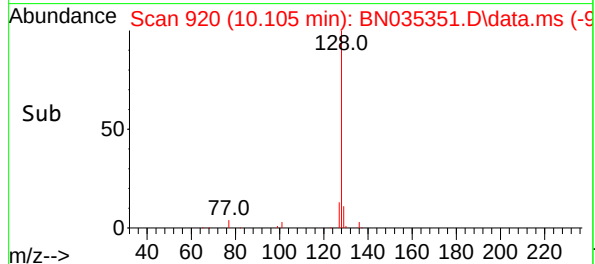
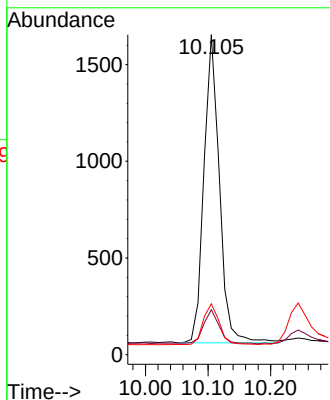
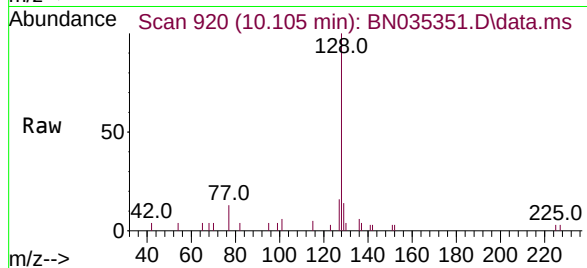
#9  
Naphthalene  
Concen: 0.197 ng  
RT: 10.105 min Scan# 91  
Delta R.T. -0.000 min  
Lab File: BN035351.D  
Acq: 27 Nov 2024 16:10

Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC0.2

Tgt Ion:128 Resp: 2744  
Ion Ratio Lower Upper  
128 100  
129 14.0 9.8 14.6  
127 15.9 11.4 17.2

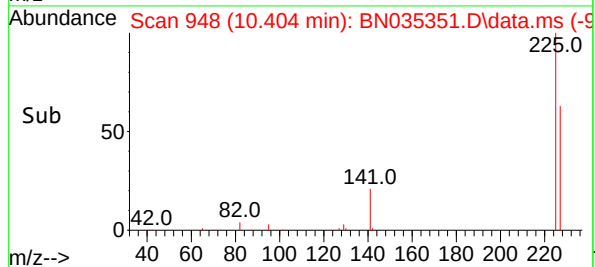
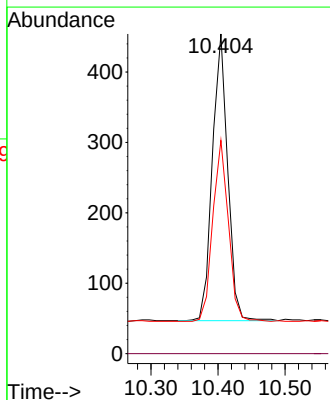
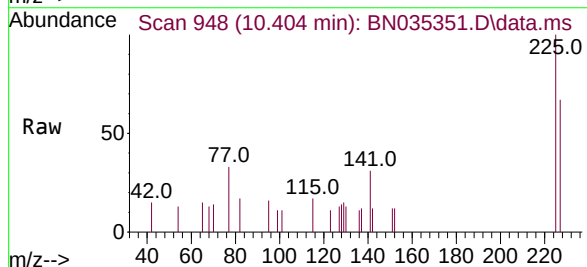
Manual Integrations  
APPROVED

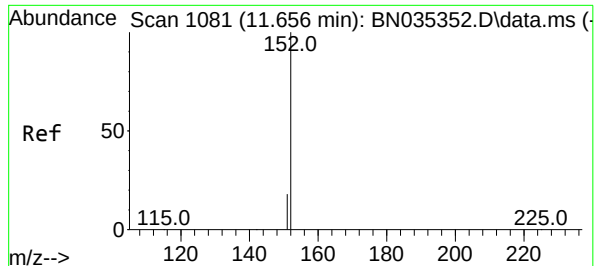
Reviewed By :Yogesh Patel 11/29/2024  
Supervised By :mohammad ahmed 11/29/2024



#10  
Hexachlorobutadiene  
Concen: 0.158 ng  
RT: 10.404 min Scan# 948  
Delta R.T. -0.000 min  
Lab File: BN035351.D  
Acq: 27 Nov 2024 16:10

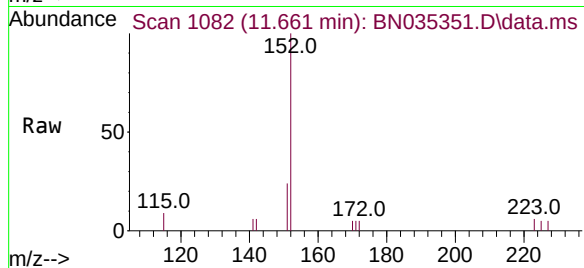
Tgt Ion:225 Resp: 646  
Ion Ratio Lower Upper  
225 100  
223 0.0 0.0 0.0  
227 64.7 51.3 76.9





#11  
2-Methylnaphthalene-d10  
Concen: 0.169 ng  
RT: 11.661 min Scan# 1082  
Delta R.T. 0.005 min  
Lab File: BN035351.D  
Acq: 27 Nov 2024 16:10

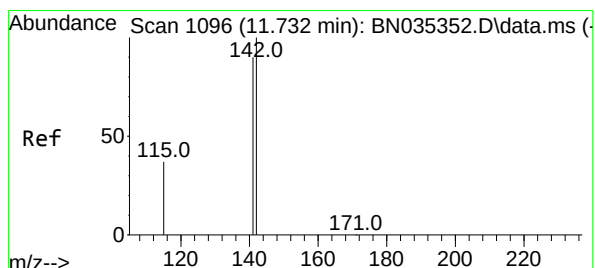
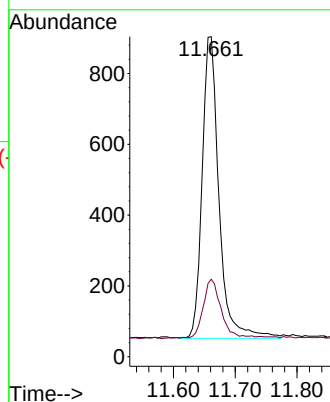
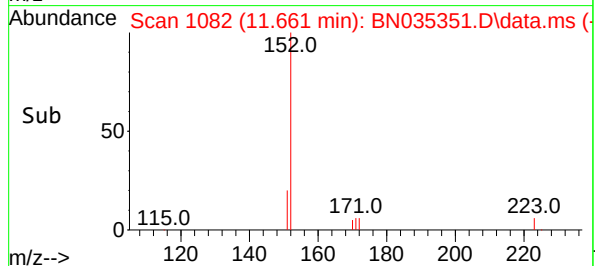
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC0.2



Tgt Ion:152 Resp: 1608  
Ion Ratio Lower Upper  
152 100  
151 22.3 16.6 25.0

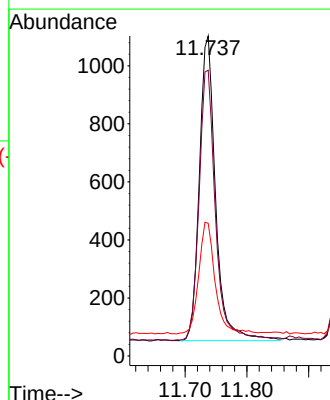
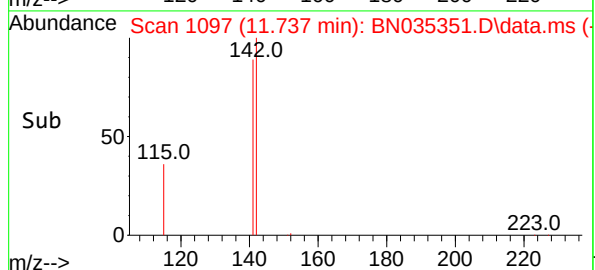
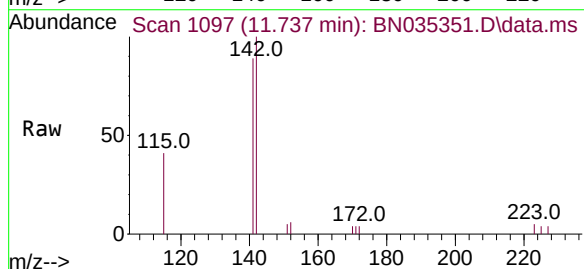
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APPROVED

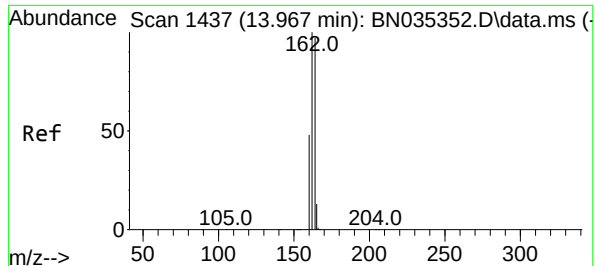
Reviewed By :Yogesh Patel 11/29/2024  
Supervised By :mohammad ahmed 11/29/2024



#12  
2-Methylnaphthalene  
Concen: 0.186 ng  
RT: 11.737 min Scan# 1097  
Delta R.T. 0.005 min  
Lab File: BN035351.D  
Acq: 27 Nov 2024 16:10

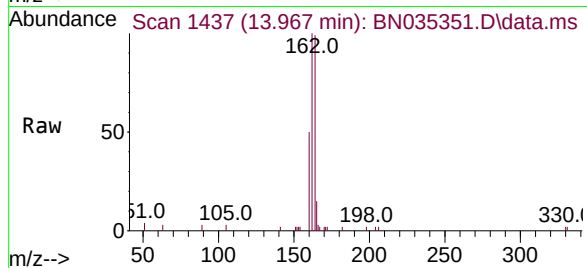
Tgt Ion:142 Resp: 1910  
Ion Ratio Lower Upper  
142 100  
141 89.3 72.2 108.4  
115 41.4 31.4 47.0





#13  
Acenaphthene-d10  
Concen: 0.400 ng  
RT: 13.967 min Scan# 1437  
Delta R.T. -0.000 min  
Lab File: BN035351.D  
Acq: 27 Nov 2024 16:10

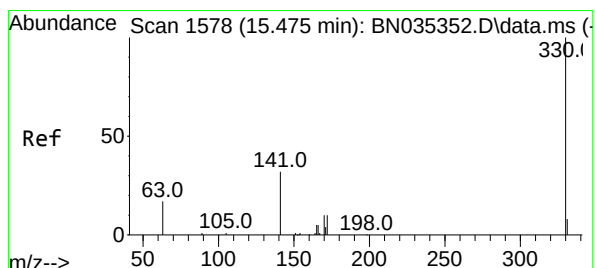
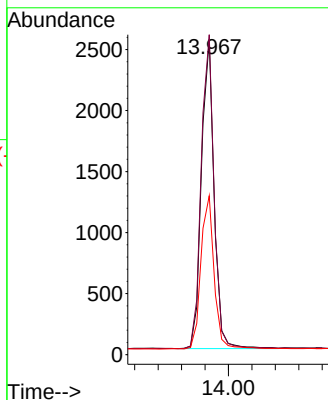
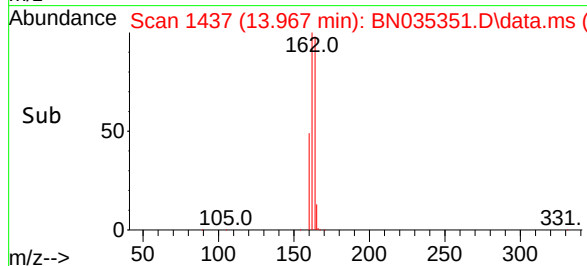
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC0.2



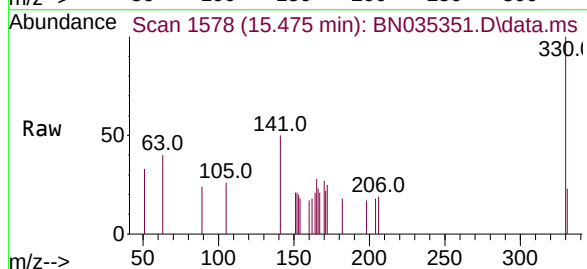
Tgt Ion:164 Resp: 380  
Ion Ratio Lower Upper  
164 100  
162 101.5 82.2 123.2  
160 50.4 40.1 60.1

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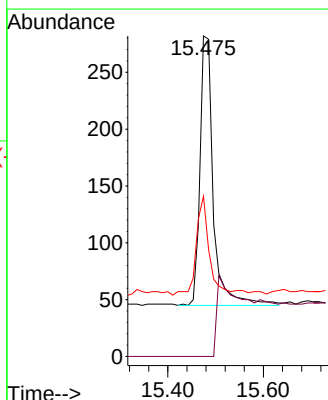
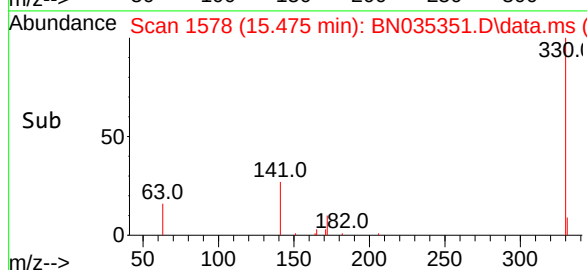
Reviewed By :Yogesh Patel 11/29/2024  
Supervised By :mohammad ahmed 11/29/2024

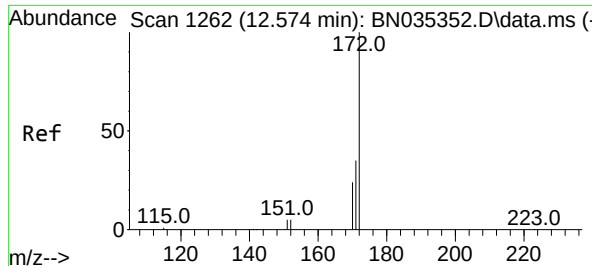


#14  
2,4,6-Tribromophenol  
Concen: 0.179 ng  
RT: 15.475 min Scan# 1578  
Delta R.T. -0.000 min  
Lab File: BN035351.D  
Acq: 27 Nov 2024 16:10



Tgt Ion:330 Resp: 492  
Ion Ratio Lower Upper  
330 100  
332 0.0 0.0 0.0  
141 37.2 26.6 40.0





#15

2-Fluorobiphenyl

Concen: 0.184 ng

RT: 12.574 min Scan# 1262

Delta R.T. -0.000 min

Lab File: BN035351.D

Acq: 27 Nov 2024 16:10

Instrument :

BNA\_N

ClientSampleId :

SSTDICC0.2

Tgt Ion:172 Resp: 2838

Ion Ratio Lower Upper

172 100

171 37.9 29.0 43.4

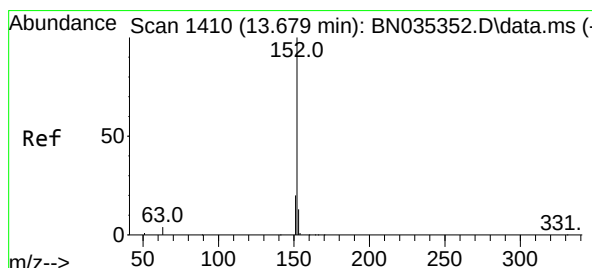
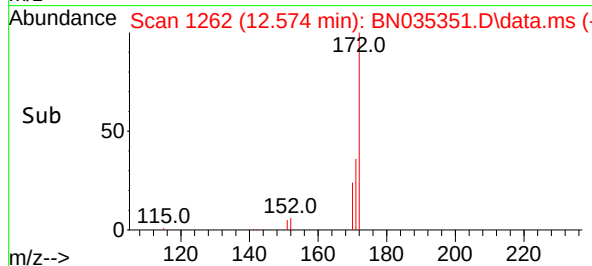
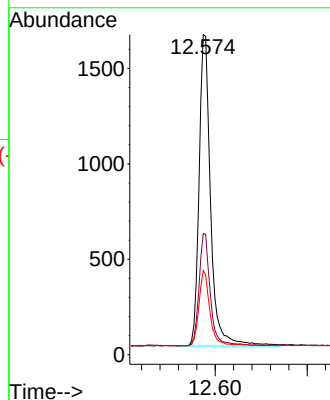
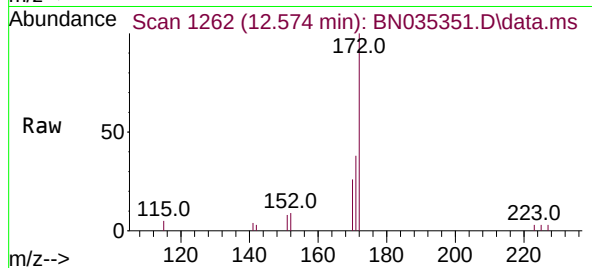
170 26.3 19.8 29.8

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 11/29/2024

Supervised By :mohammad ahmed 11/29/2024



#16

Acenaphthylene

Concen: 0.187 ng

RT: 13.678 min Scan# 1410

Delta R.T. -0.000 min

Lab File: BN035351.D

Acq: 27 Nov 2024 16:10

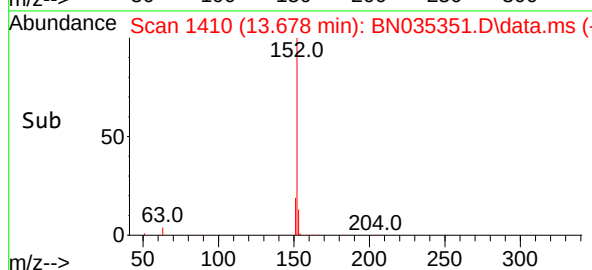
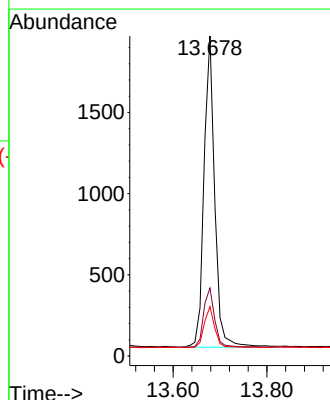
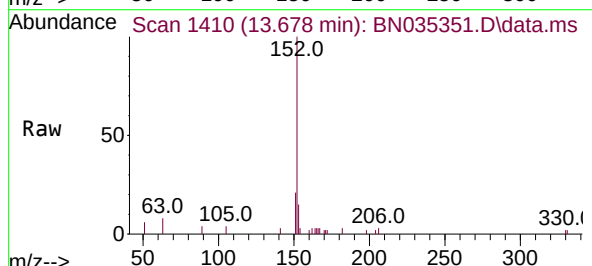
Tgt Ion:152 Resp: 3047

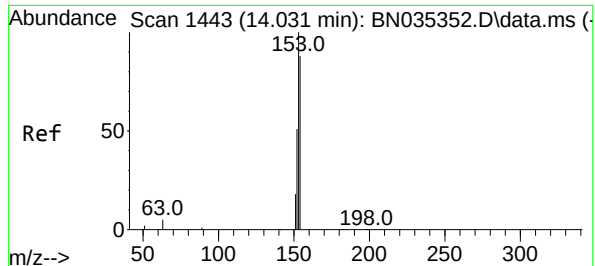
Ion Ratio Lower Upper

152 100

151 19.8 16.2 24.2

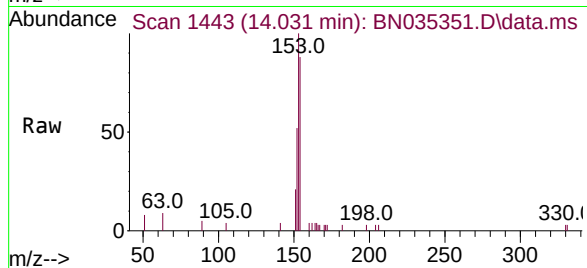
153 12.9 10.4 15.6





#17  
Acenaphthene  
Concen: 0.194 ng  
RT: 14.031 min Scan# 1443  
Delta R.T. -0.000 min  
Lab File: BN035351.D  
Acq: 27 Nov 2024 16:10

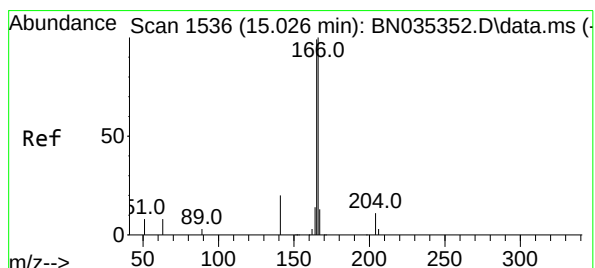
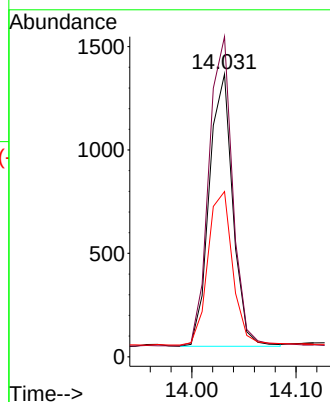
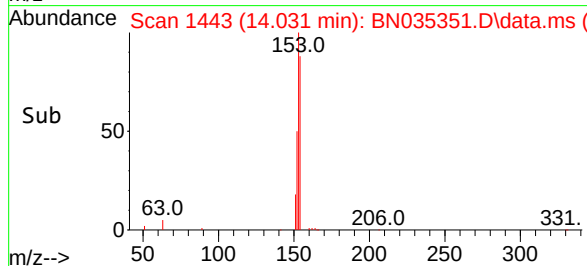
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC0.2



Tgt Ion:154 Resp: 2064  
Ion Ratio Lower Upper  
154 100  
153 115.2 92.6 139.0  
152 60.7 49.0 73.6

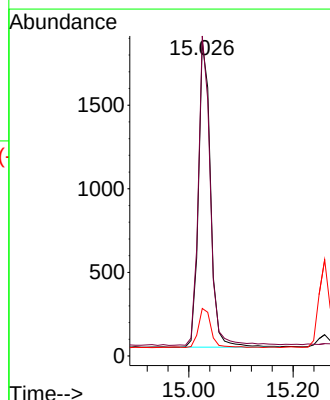
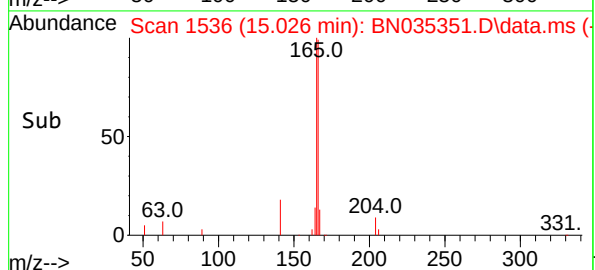
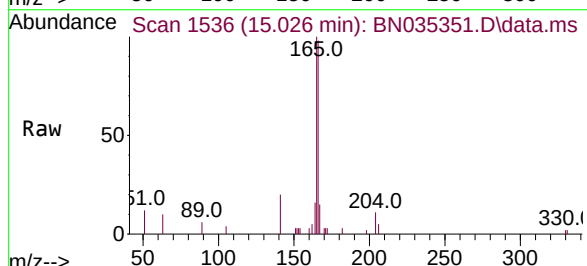
Manual Integrations  
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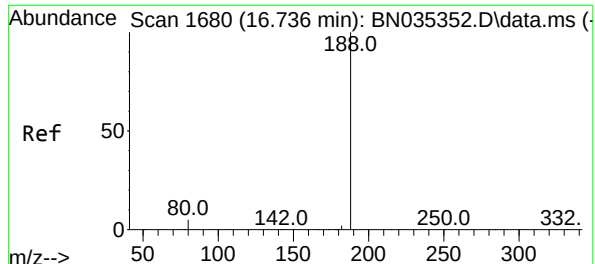
Reviewed By :Yogesh Patel 11/29/2024  
Supervised By :mohammad ahmed 11/29/2024



#18  
Fluorene  
Concen: 0.188 ng  
RT: 15.026 min Scan# 1536  
Delta R.T. -0.000 min  
Lab File: BN035351.D  
Acq: 27 Nov 2024 16:10

Tgt Ion:166 Resp: 2949  
Ion Ratio Lower Upper  
166 100  
165 99.1 79.7 119.5  
167 14.1 10.8 16.2





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 16.735 min Scan# 1

Delta R.T. -0.000 min

Lab File: BN035351.D

Acq: 27 Nov 2024 16:10

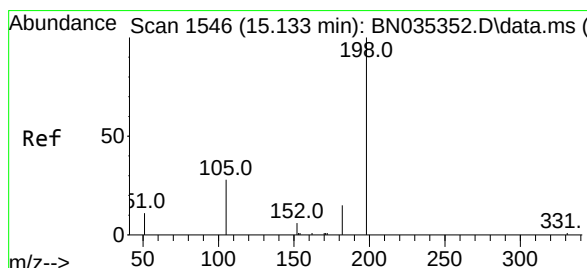
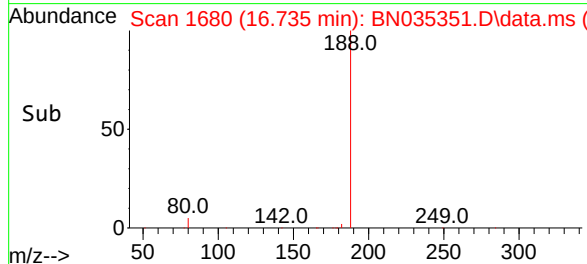
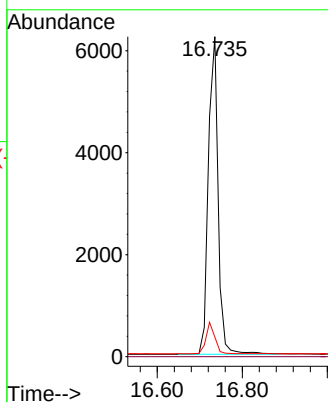
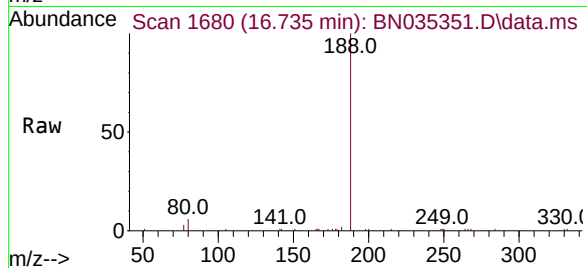
Instrument :

BNA\_N

ClientSampleId :

SSTDICC0.2

| Tgt Ion | 188 | 94  | 80  |
|---------|-----|-----|-----|
| Ratio   | 100 | 0.0 | 6.2 |
| Lower   |     | 0.0 | 4.6 |
| Upper   |     | 0.0 | 6.8 |

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APPROVEDReviewed By :Yogesh Patel 11/29/2024  
Supervised By :mohammad ahmed 11/29/2024

#20

4,6-Dinitro-2-methylphenol

Concen: 0.074 ng

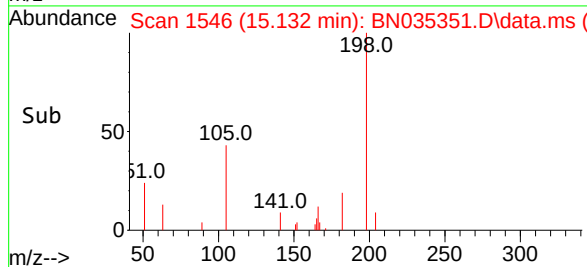
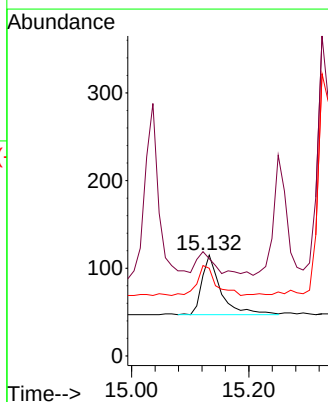
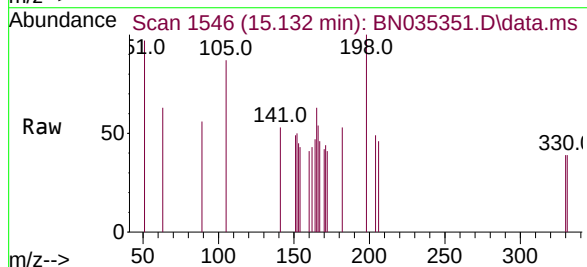
RT: 15.132 min Scan# 1546

Delta R.T. -0.000 min

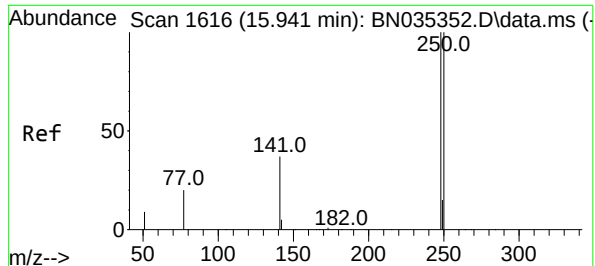
Lab File: BN035351.D

Acq: 27 Nov 2024 16:10

| Tgt Ion | 198 | 105   | 51    |
|---------|-----|-------|-------|
| Ratio   | 100 | 96.5  | 87.0  |
| Lower   |     | 46.5  | 45.3  |
| Upper   |     | 69.7# | 67.9# |







#21  
4-Bromophenyl-phenylether  
Concen: 0.171 ng  
RT: 15.941 min Scan# 1616  
Delta R.T. -0.000 min  
Lab File: BN035351.D  
Acq: 27 Nov 2024 16:10

Instrument :

BNA\_N

ClientSampleId :

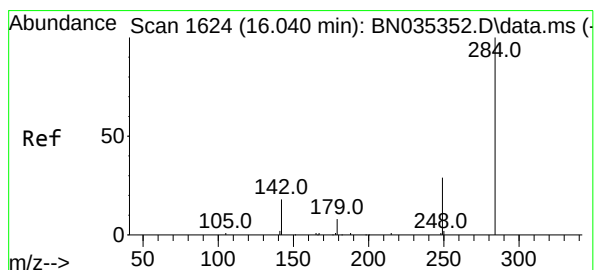
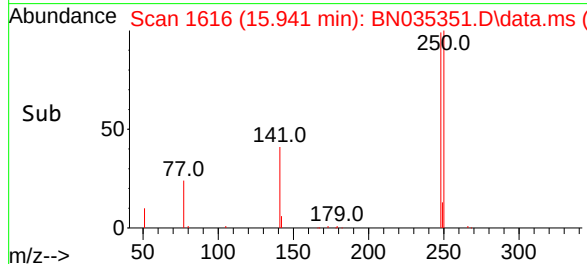
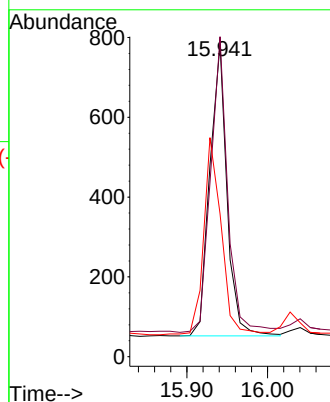
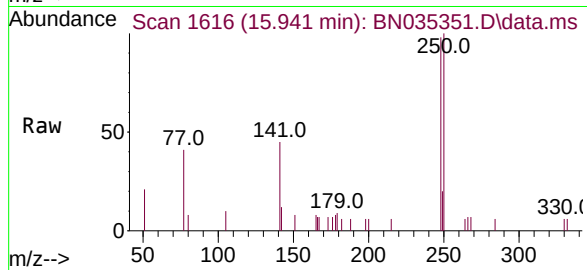
SSTDICC0.2

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 248     | 100   |       |       |
| 250     | 102.3 | 80.6  | 120.8 |
| 141     | 45.7  | 31.5  | 47.3  |

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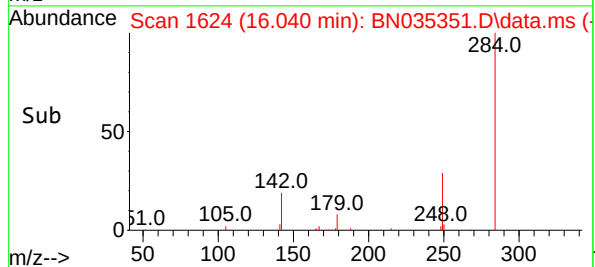
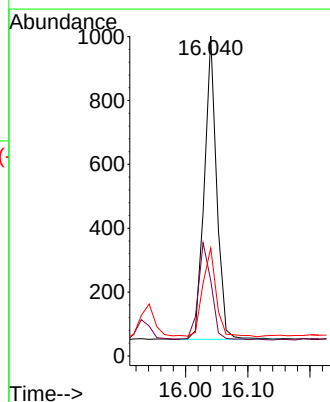
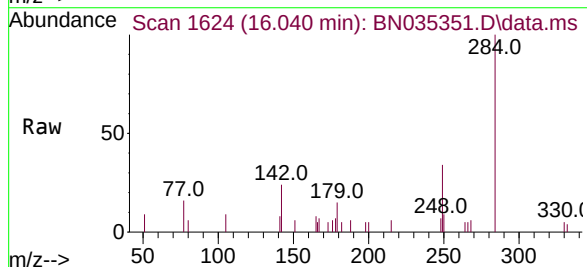
APPROVED

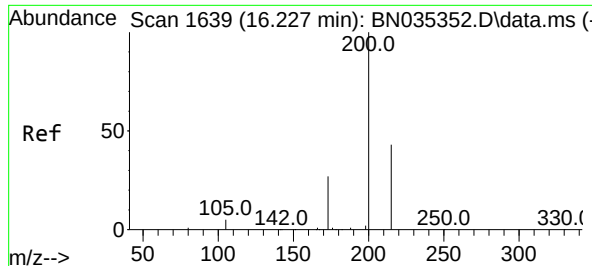
Reviewed By :Yogesh Patel 11/29/2024  
Supervised By :mohammad ahmed 11/29/2024



#22  
Hexachlorobenzene  
Concen: 0.201 ng  
RT: 16.040 min Scan# 1624  
Delta R.T. -0.000 min  
Lab File: BN035351.D  
Acq: 27 Nov 2024 16:10

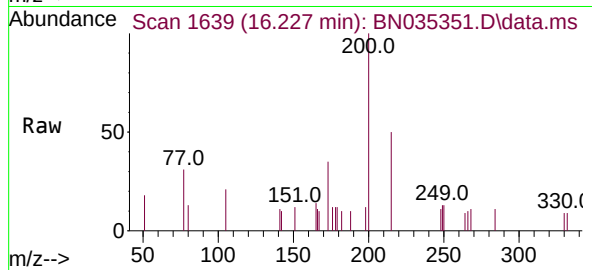
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 284     | 100   |       |       |
| 142     | 34.2  | 26.7  | 40.1  |
| 249     | 32.0  | 24.6  | 36.8  |





#23  
Atrazine  
Concen: 0.136 ng  
RT: 16.227 min Scan# 1639  
Delta R.T. -0.000 min  
Lab File: BN035351.D  
Acq: 27 Nov 2024 16:10

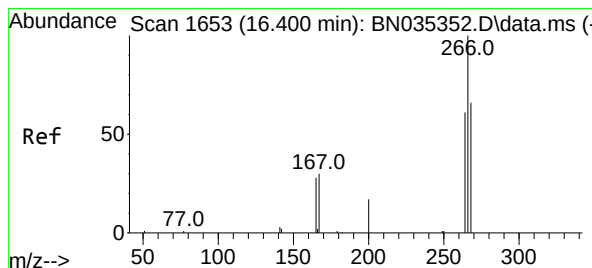
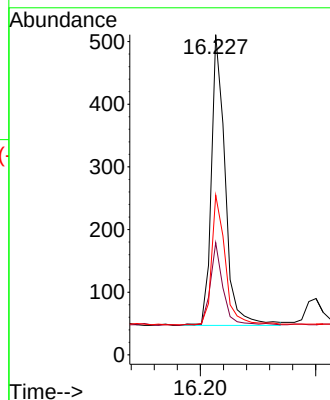
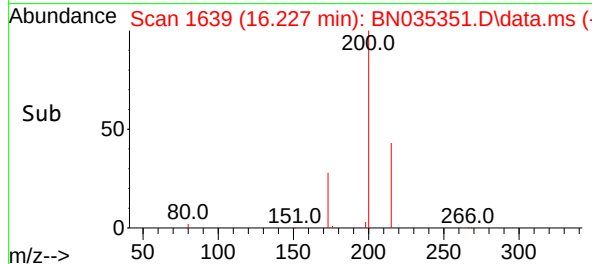
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC0.2



Tgt Ion:200 Resp: 770  
Ion Ratio Lower Upper  
200 100  
173 35.0 24.1 36.1  
215 49.9 36.9 55.3

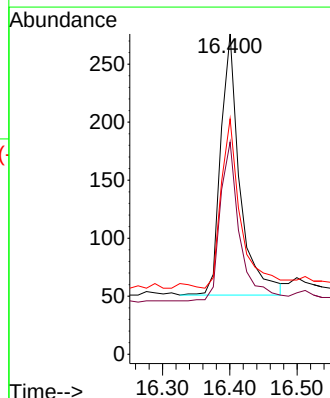
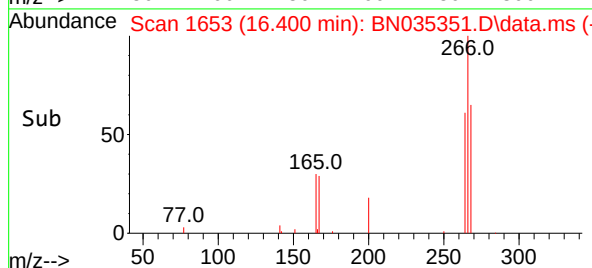
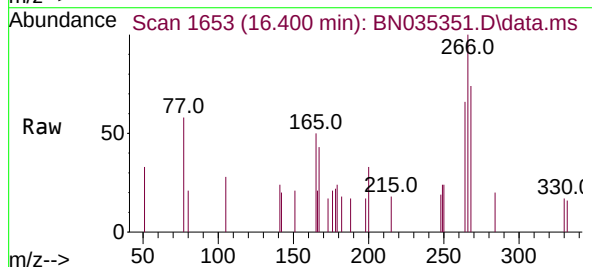
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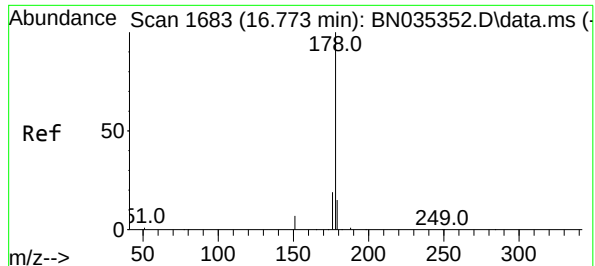
Reviewed By :Yogesh Patel 11/29/2024  
Supervised By :mohammad ahmed 11/29/2024



#24  
Pentachlorophenol  
Concen: 0.145 ng  
RT: 16.400 min Scan# 1653  
Delta R.T. -0.000 min  
Lab File: BN035351.D  
Acq: 27 Nov 2024 16:10

Tgt Ion:266 Resp: 445  
Ion Ratio Lower Upper  
266 100  
264 62.7 42.3 63.5  
268 67.2 43.3 64.9#





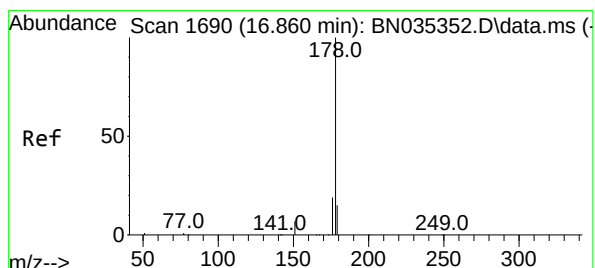
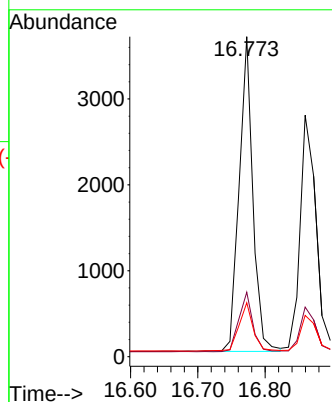
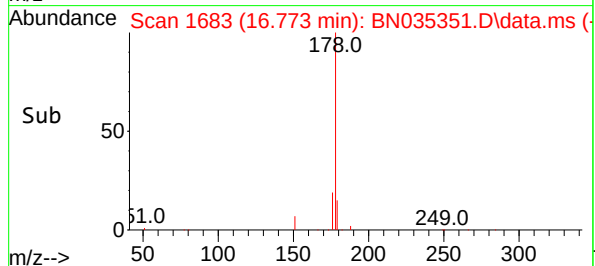
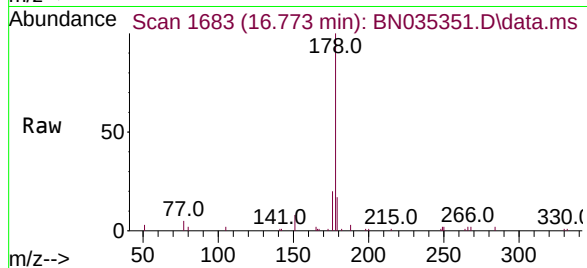
#25  
Phenanthrene  
Concen: 0.199 ng  
RT: 16.773 min Scan# 1683  
Delta R.T. -0.000 min  
Lab File: BN035351.D  
Acq: 27 Nov 2024 16:10

Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC0.2

Tgt Ion:178 Resp: 518  
Ion Ratio Lower Upper  
178 100  
176 18.9 15.4 23.2  
179 15.9 12.3 18.5

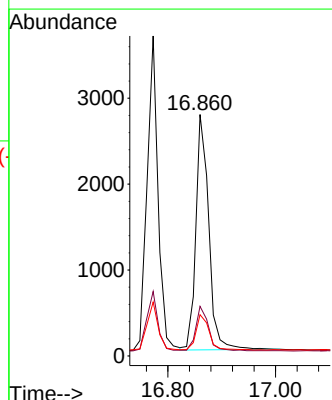
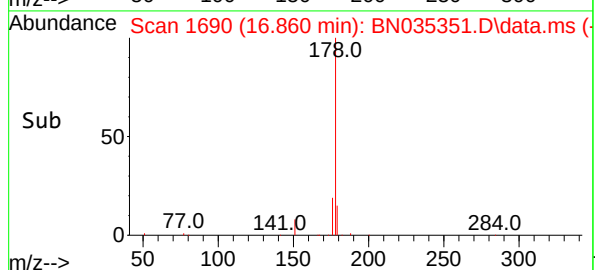
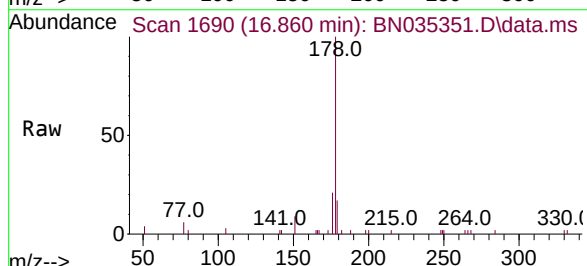
Manual Integrations  
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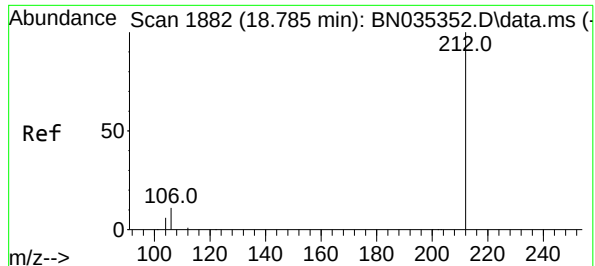
Reviewed By :Yogesh Patel 11/29/2024  
Supervised By :mohammad ahmed 11/29/2024



#26  
Anthracene  
Concen: 0.191 ng  
RT: 16.860 min Scan# 1690  
Delta R.T. -0.000 min  
Lab File: BN035351.D  
Acq: 27 Nov 2024 16:10

Tgt Ion:178 Resp: 4571  
Ion Ratio Lower Upper  
178 100  
176 18.7 15.0 22.6  
179 15.4 12.6 18.8





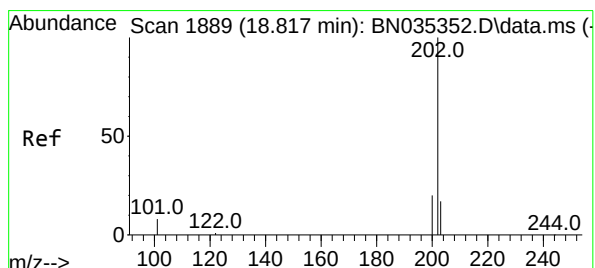
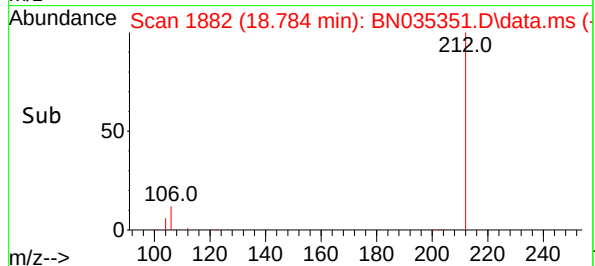
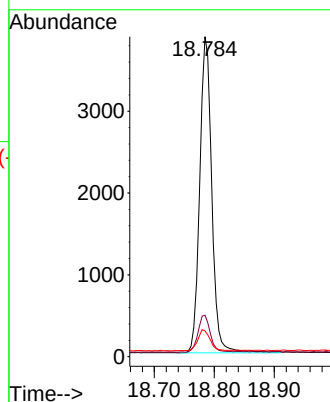
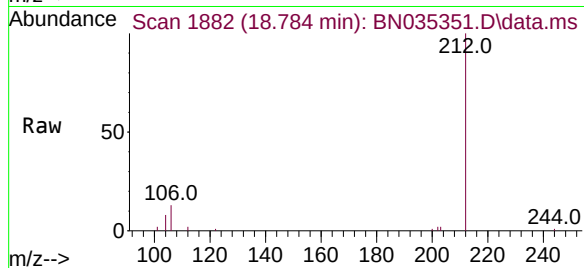
#27  
Fluoranthene-d10  
Concen: 0.177 ng  
RT: 18.784 min Scan# 1882  
Delta R.T. -0.000 min  
Lab File: BN035351.D  
Acq: 27 Nov 2024 16:10

Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC0.2

Tgt Ion:212 Resp: 5379  
Ion Ratio Lower Upper  
212 100  
106 11.8 9.2 13.8  
104 6.9 5.3 7.9

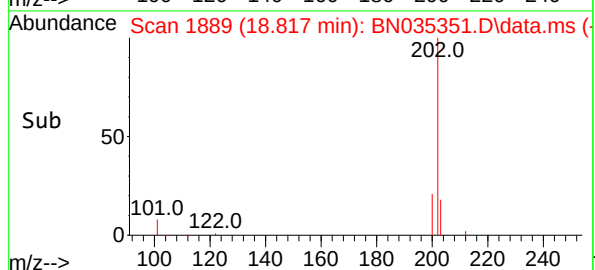
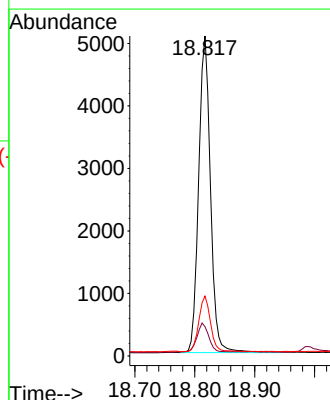
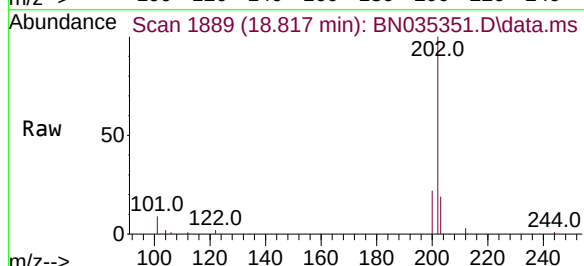
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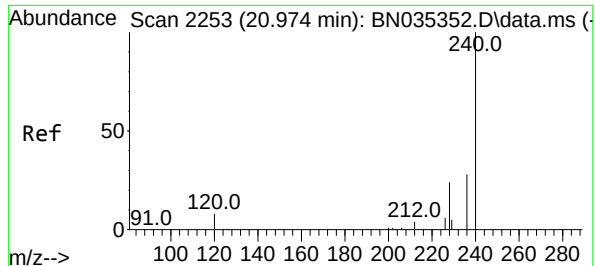
Reviewed By :Yogesh Patel 11/29/2024  
Supervised By :mohammad ahmed 11/29/2024



#28  
Fluoranthene  
Concen: 0.193 ng  
RT: 18.817 min Scan# 1889  
Delta R.T. -0.000 min  
Lab File: BN035351.D  
Acq: 27 Nov 2024 16:10

Tgt Ion:202 Resp: 6914  
Ion Ratio Lower Upper  
202 100  
101 9.3 7.4 11.0  
203 17.3 13.7 20.5





#29

Chrysene-d12

Concen: 0.400 ng

RT: 20.974 min Scan# 21

Delta R.T. -0.000 min

Lab File: BN035351.D

Acq: 27 Nov 2024 16:10

Instrument :

BNA\_N

ClientSampleId :

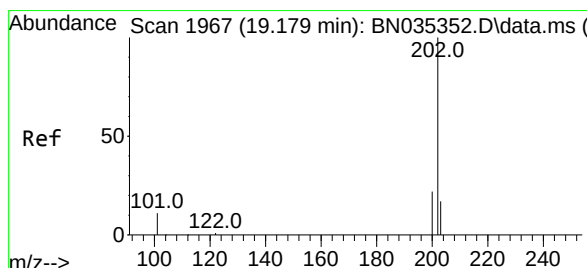
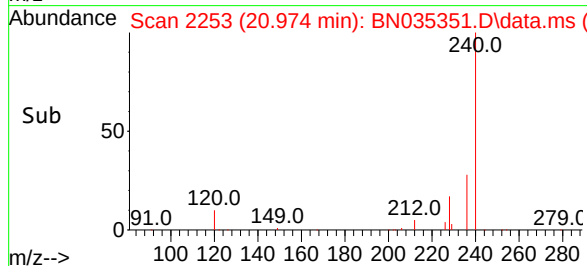
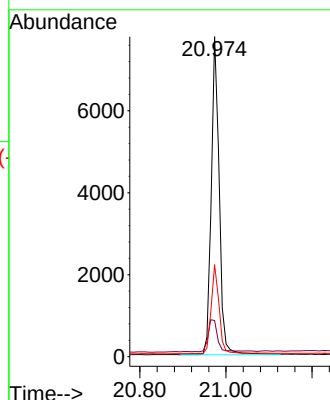
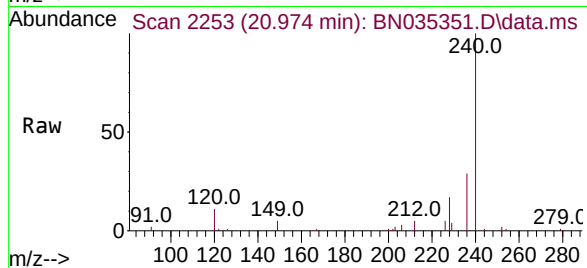
SSTDICC0.2

|           |       |       |      |
|-----------|-------|-------|------|
| Tgt Ion:  | 240   | Resp: | 996  |
| Ion Ratio | Lower | Upper |      |
| 240       | 100   |       |      |
| 120       | 11.3  | 7.9   | 11.9 |
| 236       | 28.8  | 22.9  | 34.3 |

Manual Integrations

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Reviewed By :Yogesh Patel 11/29/2024  
Supervised By :mohammad ahmed 11/29/2024



#30

Pyrene

Concen: 0.217 ng

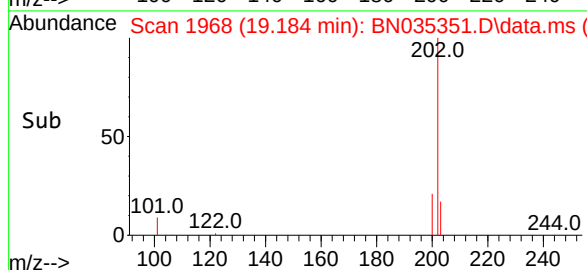
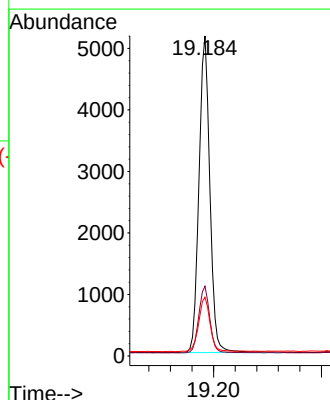
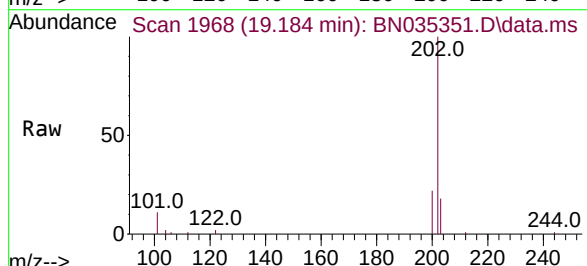
RT: 19.184 min Scan# 1968

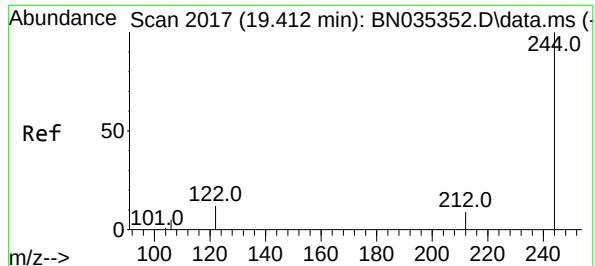
Delta R.T. 0.005 min

Lab File: BN035351.D

Acq: 27 Nov 2024 16:10

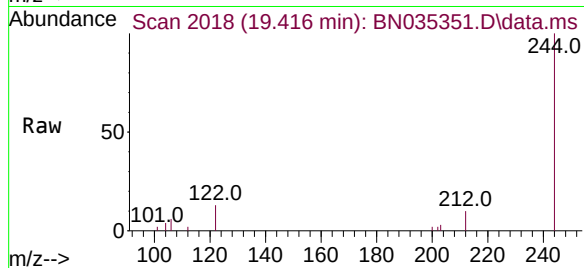
|           |       |       |      |
|-----------|-------|-------|------|
| Tgt Ion:  | 202   | Resp: | 7198 |
| Ion Ratio | Lower | Upper |      |
| 202       | 100   |       |      |
| 200       | 21.3  | 17.0  | 25.4 |
| 203       | 18.0  | 14.3  | 21.5 |





#31  
Terphenyl-d14  
Concen: 0.185 ng  
RT: 19.416 min Scan# 2017  
Delta R.T. 0.005 min  
Lab File: BN035351.D  
Acq: 27 Nov 2024 16:10

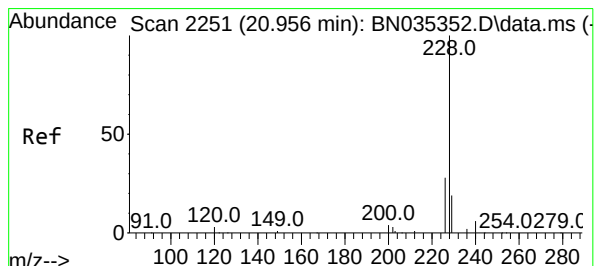
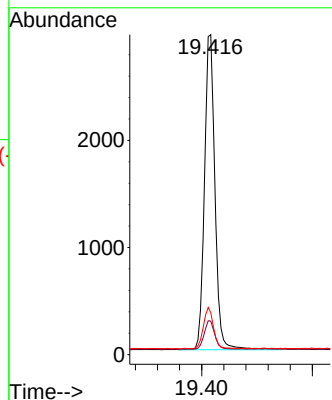
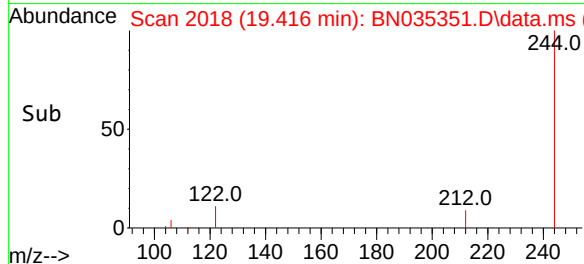
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC0.2



Tgt Ion:244 Resp: 387  
Ion Ratio Lower Upper  
244 100  
212 10.5 8.1 12.1  
122 13.1 10.3 15.5

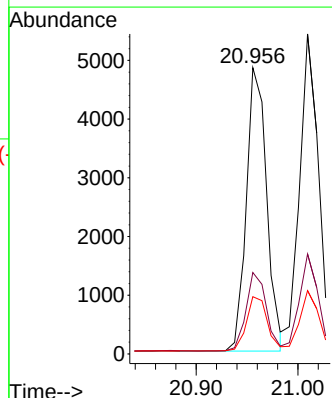
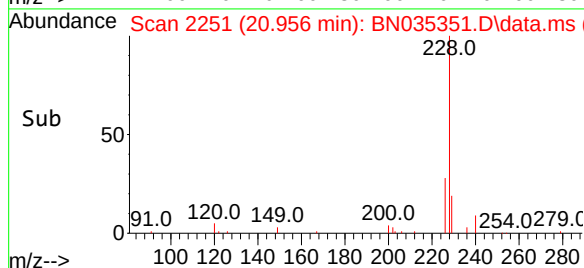
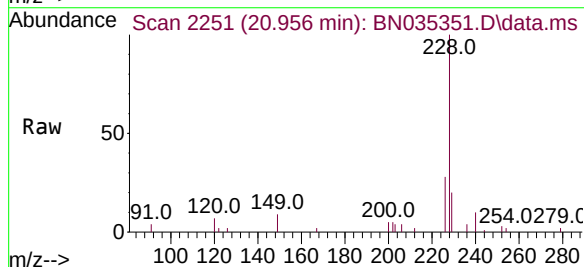
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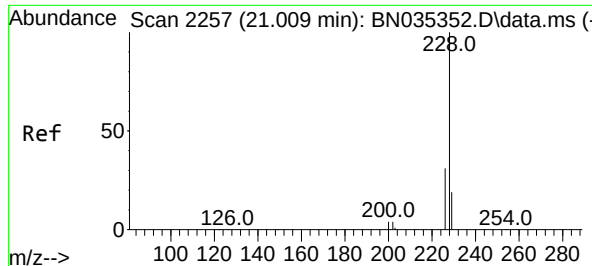
Reviewed By :Yogesh Patel 11/29/2024  
Supervised By :mohammad ahmed 11/29/2024



#32  
Benzo(a)anthracene  
Concen: 0.193 ng  
RT: 20.956 min Scan# 2251  
Delta R.T. -0.000 min  
Lab File: BN035351.D  
Acq: 27 Nov 2024 16:10

Tgt Ion:228 Resp: 6691  
Ion Ratio Lower Upper  
228 100  
226 28.4 22.5 33.7  
229 20.0 15.8 23.8





#33

Chrysene

Concen: 0.211 ng

RT: 21.009 min Scan# 21

Delta R.T. -0.000 min

Lab File: BN035351.D

Acq: 27 Nov 2024 16:10

Instrument :

BNA\_N

ClientSampleId :

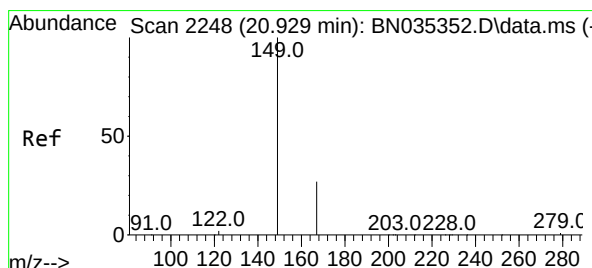
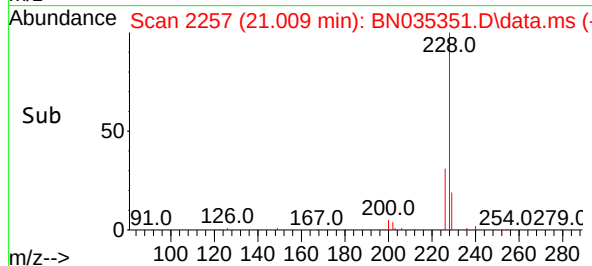
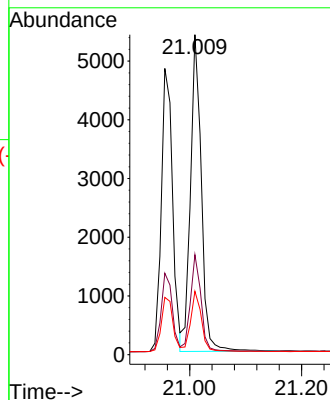
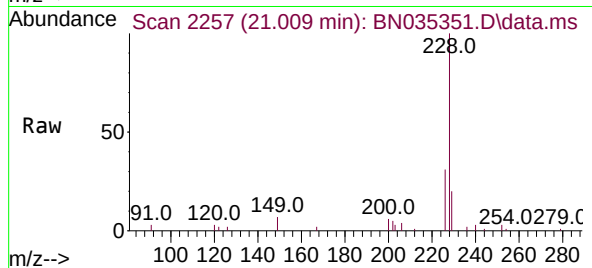
SSTDICC0.2

| Tgt Ion:  | 228   | Resp: | 7234 |
|-----------|-------|-------|------|
| Ion Ratio | Lower | Upper |      |
| 228       | 100   |       |      |
| 226       | 31.2  | 24.6  | 37.0 |
| 229       | 19.8  | 15.9  | 23.9 |

Manual Integrations

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Reviewed By :Yogesh Patel 11/29/2024  
Supervised By :mohammad ahmed 11/29/2024



#34

Bis(2-ethylhexyl)phthalate

Concen: 0.153 ng

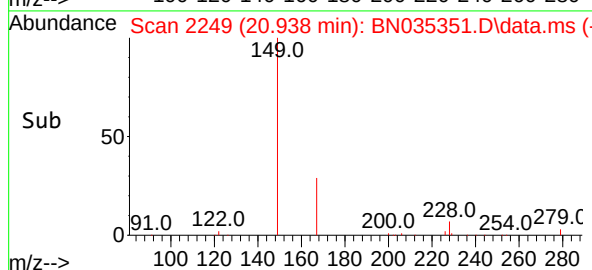
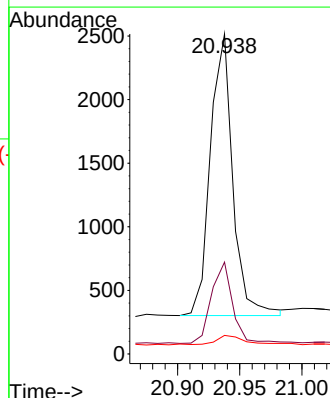
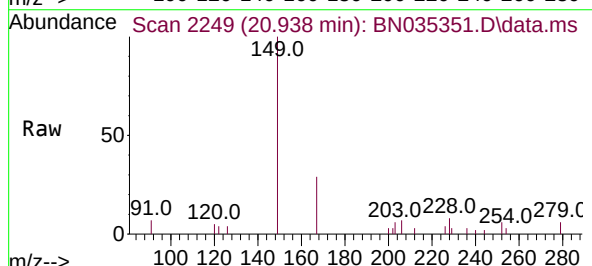
RT: 20.938 min Scan# 2249

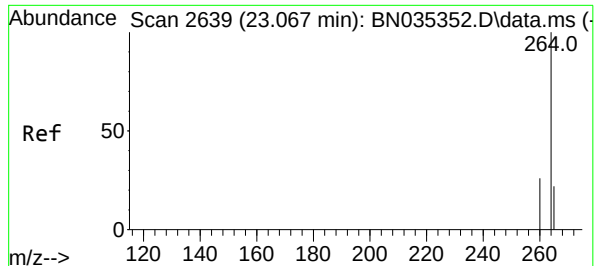
Delta R.T. 0.009 min

Lab File: BN035351.D

Acq: 27 Nov 2024 16:10

| Tgt Ion:  | 149   | Resp: | 2779 |
|-----------|-------|-------|------|
| Ion Ratio | Lower | Upper |      |
| 149       | 100   |       |      |
| 167       | 27.5  | 22.2  | 33.4 |
| 279       | 4.8   | 2.7   | 4.1# |





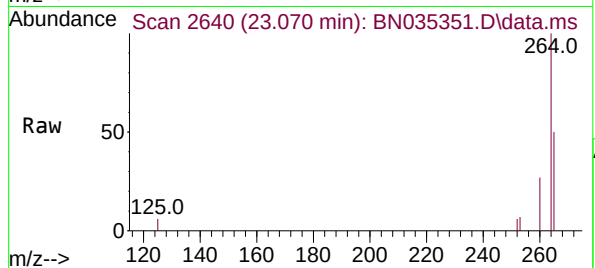
#35  
Perylene-d12  
Concen: 0.400 ng  
RT: 23.070 min Scan# 2640  
Delta R.T. 0.003 min  
Lab File: BN035351.D  
Acq: 27 Nov 2024 16:10

Instrument :

BNA\_N

ClientSampleId :

SSTDICC0.2



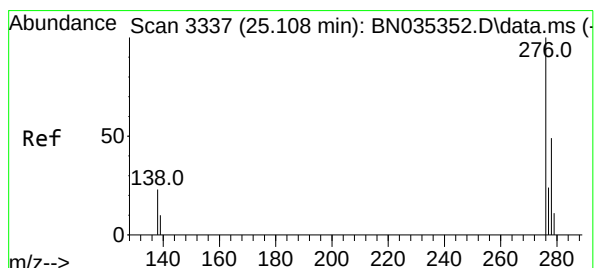
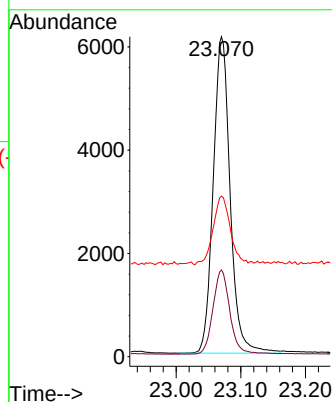
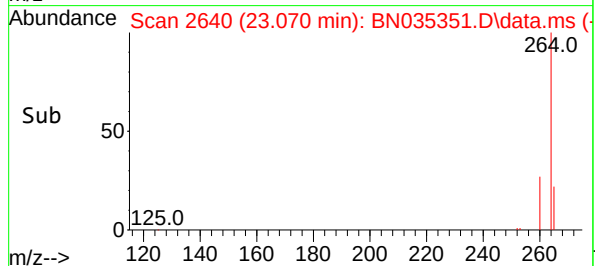
Tgt Ion:264 Resp: 11158  
Ion Ratio Lower Upper  
264 100  
260 27.1 21.4 32.2  
265 50.2 40.2 60.4

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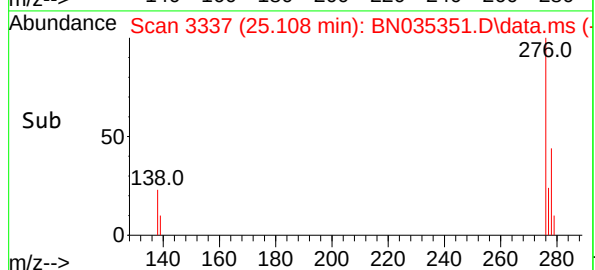
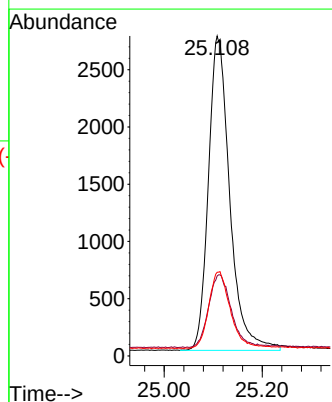
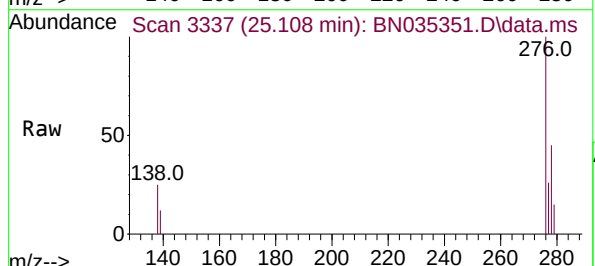
Reviewed By :Yogesh Patel 11/29/2024

Supervised By :mohammad ahmed 11/29/2024

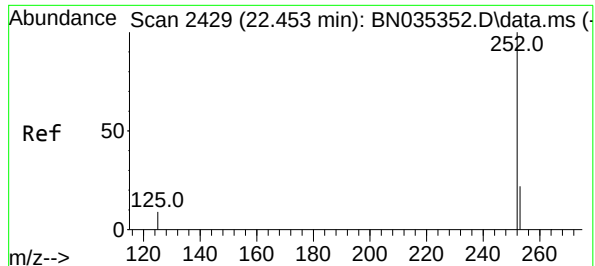


#36  
Indeno(1,2,3-cd)pyrene  
Concen: 0.187 ng  
RT: 25.108 min Scan# 3337  
Delta R.T. -0.000 min  
Lab File: BN035351.D  
Acq: 27 Nov 2024 16:10

Tgt Ion:276 Resp: 8305  
Ion Ratio Lower Upper  
276 100  
138 24.3 19.4 29.0  
277 24.7 19.8 29.6







#37

Benzo(b)fluoranthene

Concen: 0.200 ng

RT: 22.456 min Scan# 2429

Delta R.T. 0.003 min

Lab File: BN035351.D

Acq: 27 Nov 2024 16:10

Instrument :

BNA\_N

ClientSampleId :

SSTDICC0.2

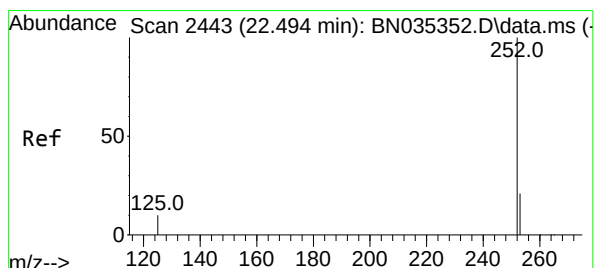
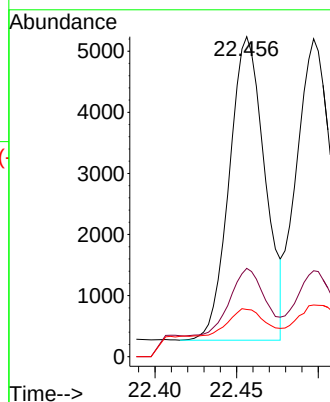
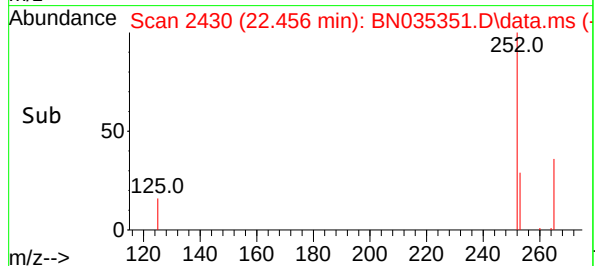
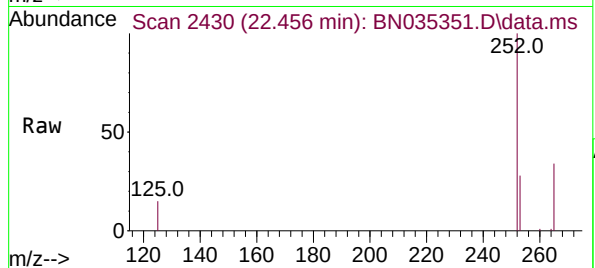
|           |       |       |      |
|-----------|-------|-------|------|
| Tgt Ion:  | 252   | Resp: | 752  |
| Ion Ratio | Lower | Upper |      |
| 252       | 100   |       |      |
| 253       | 27.6  | 19.6  | 29.4 |
| 125       | 14.8  | 9.6   | 14.4 |

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 11/29/2024

Supervised By :mohammad ahmed 11/29/2024



#38

Benzo(k)fluoranthene

Concen: 0.204 ng m

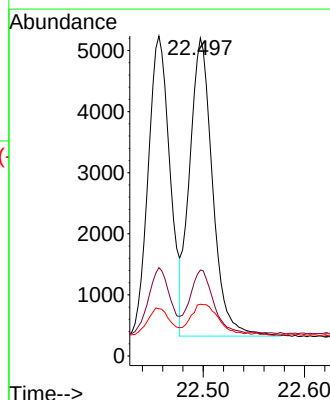
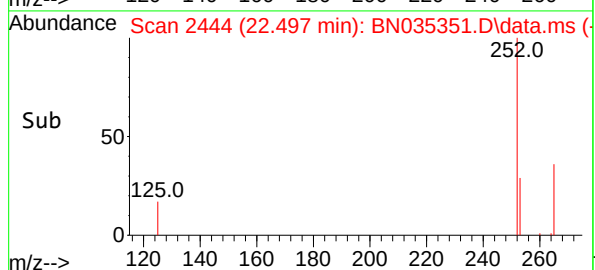
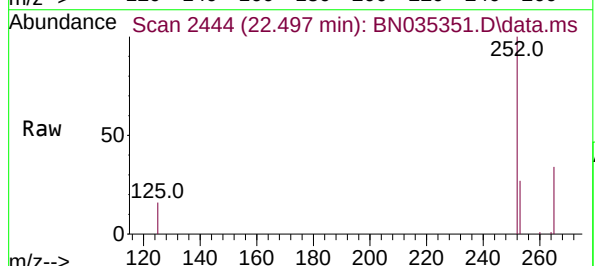
RT: 22.497 min Scan# 2444

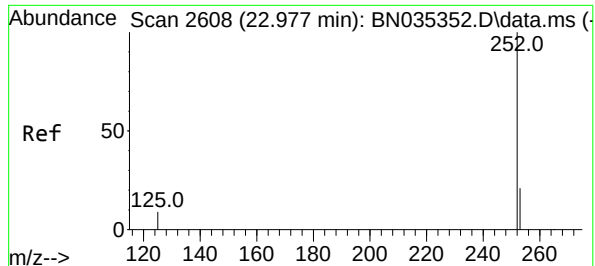
Delta R.T. 0.003 min

Lab File: BN035351.D

Acq: 27 Nov 2024 16:10

|           |       |       |      |
|-----------|-------|-------|------|
| Tgt Ion:  | 252   | Resp: | 7675 |
| Ion Ratio | Lower | Upper |      |
| 252       | 100   |       |      |
| 253       | 27.0  | 19.5  | 29.3 |
| 125       | 16.2  | 10.2  | 15.4 |





#39

Benzo(a)pyrene

Concen: 0.195 ng

RT: 22.980 min Scan# 2609

Delta R.T. 0.003 min

Lab File: BN035351.D

Acq: 27 Nov 2024 16:10

Instrument :

BNA\_N

ClientSampleId :

SSTDICC0.2

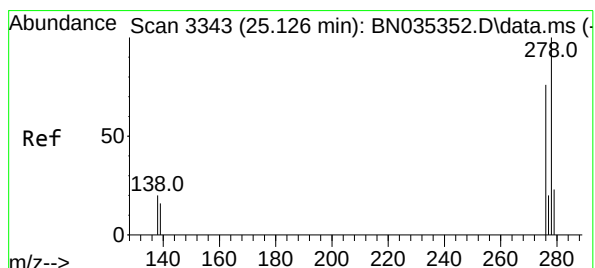
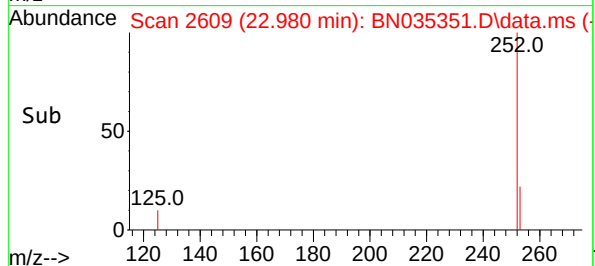
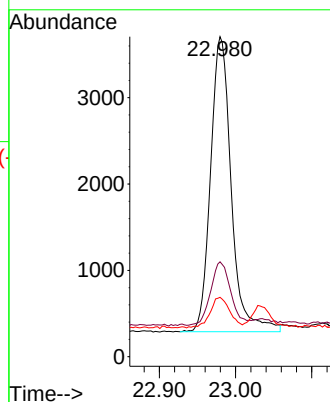
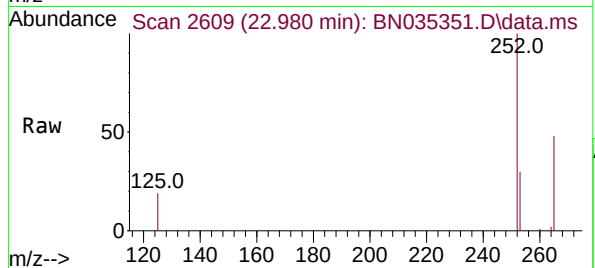
|           |       |       |      |
|-----------|-------|-------|------|
| Tgt Ion:  | 252   | Resp: | 6450 |
| Ion Ratio | Lower | Upper |      |
| 252       | 100   |       |      |
| 253       | 29.7  | 20.2  | 30.4 |
| 125       | 18.5  | 10.9  | 16.3 |

Manual Integrations

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Reviewed By :Yogesh Patel 11/29/2024

Supervised By :mohammad ahmed 11/29/2024



#40

Dibenzo(a,h)anthracene

Concen: 0.188 ng

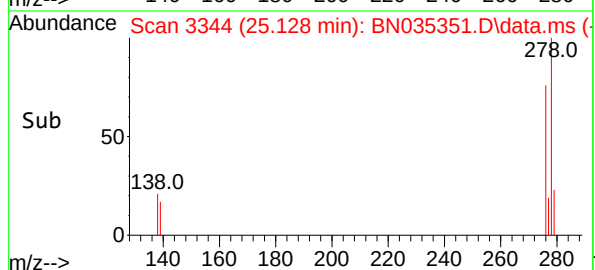
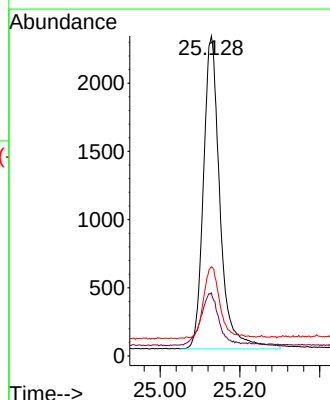
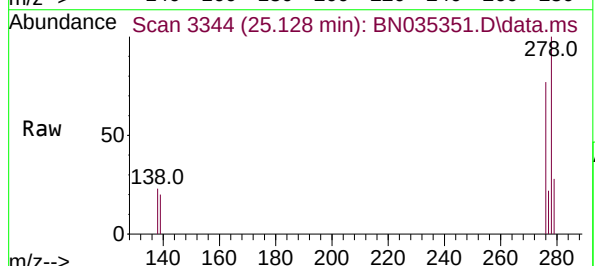
RT: 25.128 min Scan# 3344

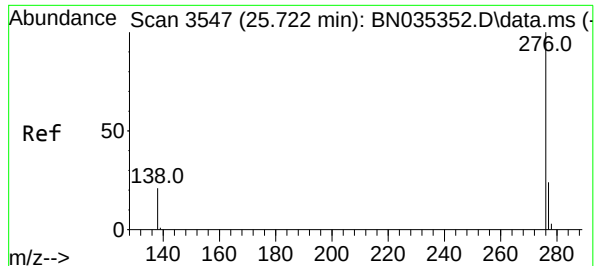
Delta R.T. 0.003 min

Lab File: BN035351.D

Acq: 27 Nov 2024 16:10

|           |       |       |      |
|-----------|-------|-------|------|
| Tgt Ion:  | 278   | Resp: | 6620 |
| Ion Ratio | Lower | Upper |      |
| 278       | 100   |       |      |
| 139       | 19.7  | 14.2  | 21.4 |
| 279       | 27.9  | 20.5  | 30.7 |





#41

Benzo(g,h,i)perylene

Concen: 0.184 ng

RT: 25.725 min Scan# 31

Delta R.T. 0.003 min

Lab File: BN035351.D

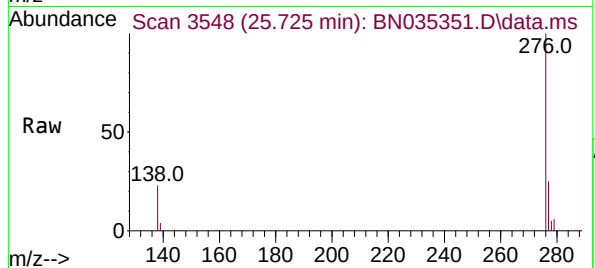
Acq: 27 Nov 2024 16:10

Instrument :

BNA\_N

ClientSampleId :

SSTDICC0.2



Tgt Ion:276 Resp: 6908

Ion Ratio Lower Upper

276 100

277 25.5 19.9 29.9

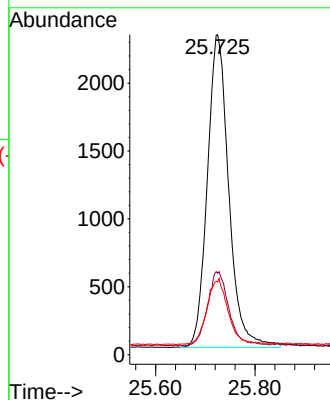
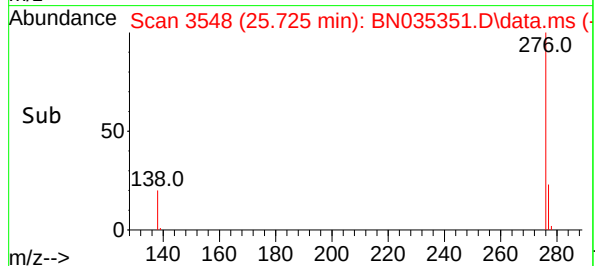
138 22.7 17.8 26.8

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 11/29/2024

Supervised By :mohammad ahmed 11/29/2024



Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN112724\  
 Data File : BN035352.D  
 Acq On : 27 Nov 2024 16:46  
 Operator : RC/JU  
 Sample : SSTDICCC0.4  
 Misc :  
 ALS Vial : 4 Sample Multiplier: 1

Instrument :  
 BNA\_N  
 ClientSampleId :  
 SSTDICCC0.4

Manual Integrations  
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Reviewed By :Yogesh Patel 11/29/2024  
 Supervised By :mohammad ahmed 11/29/2024

Quant Time: Nov 27 22:52:52 2024  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\8270-SIM-BN112724.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Wed Nov 27 22:48:24 2024  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc  | Units | Dev(Min) |
|-------------------------------|--------|------|----------|-------|-------|----------|
| -----                         |        |      |          |       |       |          |
| Internal Standards            |        |      |          |       |       |          |
| 1) 1,4-Dichlorobenzene-d4     | 7.308  | 152  | 2048     | 0.400 | ng    | 0.00     |
| 7) Naphthalene-d8             | 10.052 | 136  | 5229     | 0.400 | ng    | 0.00     |
| 13) Acenaphthene-d10          | 13.967 | 164  | 3799     | 0.400 | ng    | 0.00     |
| 19) Phenanthrene-d10          | 16.736 | 188  | 9490     | 0.400 | ng    | 0.00     |
| 29) Chrysene-d12              | 20.974 | 240  | 9527     | 0.400 | ng    | 0.00     |
| 35) Perylene-d12              | 23.067 | 264  | 10842    | 0.400 | ng    | 0.00     |
|                               |        |      |          |       |       |          |
| System Monitoring Compounds   |        |      |          |       |       |          |
| 4) 2-Fluorophenol             | 4.968  | 112  | 2085     | 0.401 | ng    | 0.00     |
| 5) Phenol-d6                  | 6.513  | 99   | 2444     | 0.375 | ng    | 0.00     |
| 8) Nitrobenzene-d5            | 8.440  | 82   | 1228m    | 0.270 | ng    | 0.00     |
| 11) 2-Methylnaphthalene-d10   | 11.656 | 152  | 3237     | 0.347 | ng    | 0.00     |
| 14) 2,4,6-Tribromophenol      | 15.475 | 330  | 975      | 0.356 | ng    | 0.00     |
| 15) 2-Fluorobiphenyl          | 12.574 | 172  | 5735     | 0.372 | ng    | 0.00     |
| 27) Fluoranthene-d10          | 18.785 | 212  | 10223    | 0.352 | ng    | 0.00     |
| 31) Terphenyl-d14             | 19.412 | 244  | 7533     | 0.377 | ng    | 0.00     |
|                               |        |      |          |       |       |          |
| Target Compounds              |        |      |          |       |       | Qvalue   |
| 2) 1,4-Dioxane                | 3.003  | 88   | 771      | 0.414 | ng    | 100      |
| 3) n-Nitrosodimethylamine     | 3.292  | 42   | 668      | 0.385 | ng    | 100      |
| 6) bis(2-Chloroethyl)ether    | 6.759  | 93   | 2032     | 0.415 | ng    | 100      |
| 9) Naphthalene                | 10.105 | 128  | 5475     | 0.401 | ng    | 100      |
| 10) Hexachlorobutadiene       | 10.404 | 225  | 1292     | 0.323 | ng    | # 100    |
| 12) 2-Methylnaphthalene       | 11.732 | 142  | 3867     | 0.384 | ng    | 100      |
| 16) Acenaphthylene            | 13.679 | 152  | 6058     | 0.373 | ng    | 100      |
| 17) Acenaphthene              | 14.031 | 154  | 4125     | 0.388 | ng    | 100      |
| 18) Fluorene                  | 15.026 | 166  | 5863     | 0.375 | ng    | 100      |
| 20) 4,6-Dinitro-2-methylph... | 15.133 | 198  | 337      | 0.171 | ng    | 100      |
| 21) 4-Bromophenyl-phenylether | 15.941 | 248  | 2146     | 0.355 | ng    | 100      |
| 22) Hexachlorobenzene         | 16.040 | 284  | 2590     | 0.413 | ng    | 100      |
| 23) Atrazine                  | 16.227 | 200  | 1461     | 0.269 | ng    | 100      |
| 24) Pentachlorophenol         | 16.400 | 266  | 906      | 0.309 | ng    | 87       |
| 25) Phenanthrene              | 16.773 | 178  | 10127    | 0.405 | ng    | 100      |
| 26) Anthracene                | 16.860 | 178  | 8921     | 0.389 | ng    | 100      |
| 28) Fluoranthene              | 18.817 | 202  | 13438    | 0.391 | ng    | 100      |
| 30) Pyrene                    | 19.179 | 202  | 14053    | 0.443 | ng    | 100      |
| 32) Benzo(a)anthracene        | 20.956 | 228  | 12908    | 0.389 | ng    | 100      |
| 33) Chrysene                  | 21.009 | 228  | 13729    | 0.418 | ng    | 100      |
| 34) Bis(2-ethylhexyl)phtha... | 20.929 | 149  | 4912     | 0.282 | ng    | 100      |
| 36) Indeno(1,2,3-cd)pyrene    | 25.108 | 276  | 16615    | 0.384 | ng    | 100      |
| 37) Benzo(b)fluoranthene      | 22.453 | 252  | 14235    | 0.390 | ng    | 100      |
| 38) Benzo(k)fluoranthene      | 22.494 | 252  | 15199    | 0.416 | ng    | 100      |
| 39) Benzo(a)pyrene            | 22.977 | 252  | 12425    | 0.387 | ng    | 100      |
| 40) Dibenzo(a,h)anthracene    | 25.126 | 278  | 12948    | 0.378 | ng    | 100      |
| 41) Benzo(g,h,i)perylene      | 25.722 | 276  | 13529    | 0.371 | ng    | 100      |
| -----                         |        |      |          |       |       |          |

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

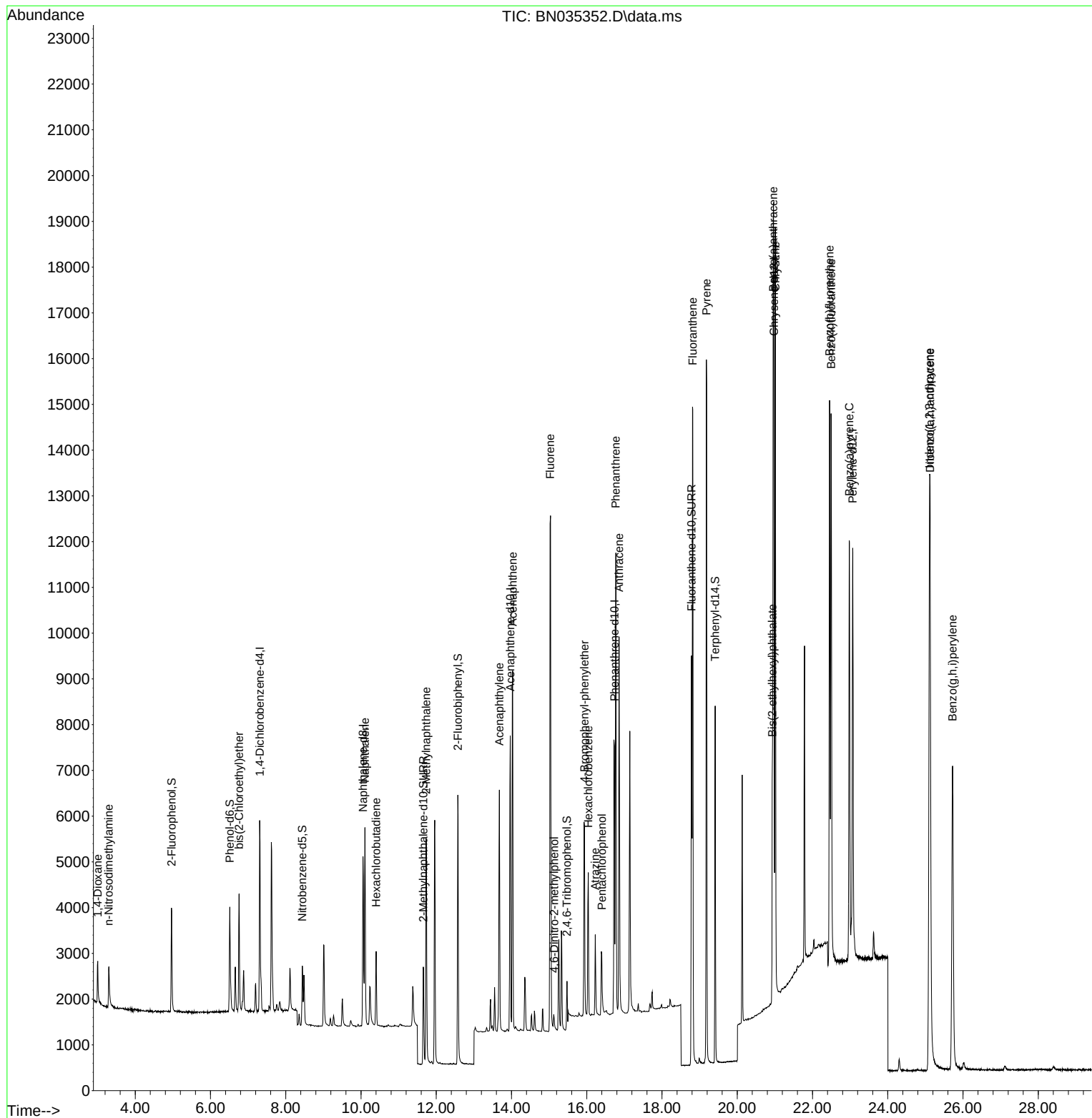
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Data File : BN035352.D  
Acq On : 27 Nov 2024 16:46  
Operator : RC/JU  
Sample : SSTDICCC0.4  
Misc :  
ALS Vial : 4 Sample Multiplier: 1

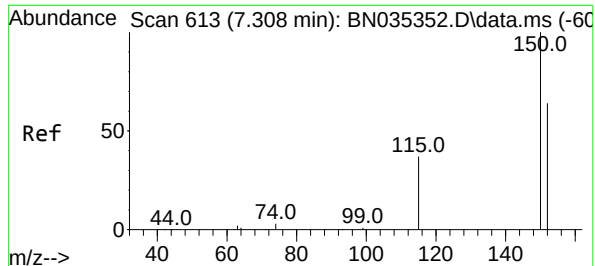
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICCC0.4

Manual Integrations  
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Reviewed By :Yogesh Patel 11/29/2024  
Supervised By :mohammad ahmed 11/29/2024

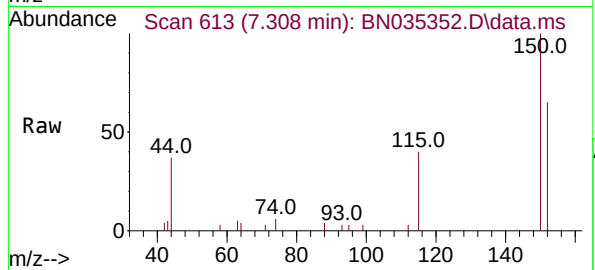
Quant Time: Nov 27 22:52:52 2024  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\8270-SIM-BN112724.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Wed Nov 27 22:48:24 2024  
Response via : Initial Calibration





#1  
1,4-Dichlorobenzene-d4  
Concen: 0.400 ng  
RT: 7.308 min Scan# 613  
Delta R.T. -0.000 min  
Lab File: BN035352.D  
Acq: 27 Nov 2024 16:46

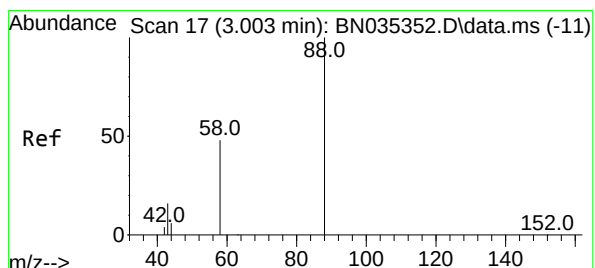
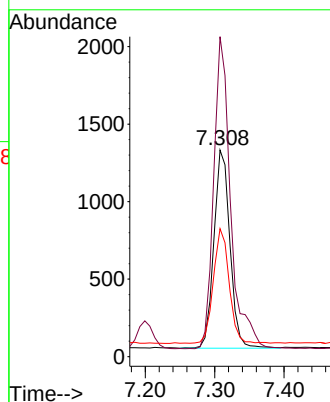
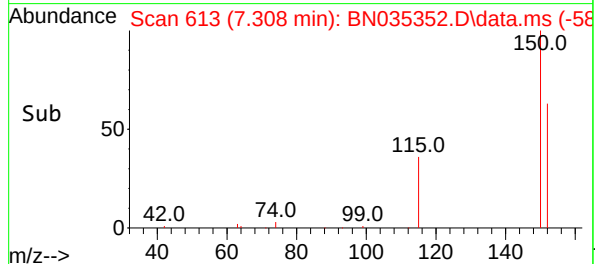
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICCC0.4



Tgt Ion: 152 Resp: 2048  
Ion Ratio Lower Upper  
152 100  
150 155.0 124.0 186.0  
115 62.0 49.6 74.4

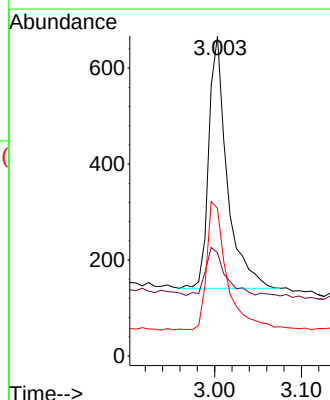
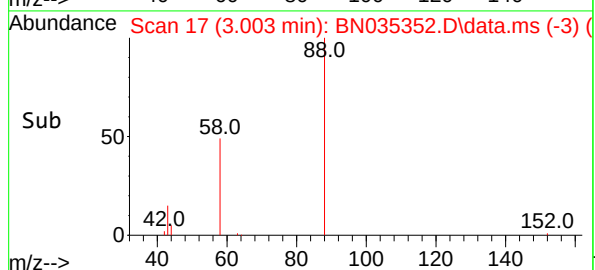
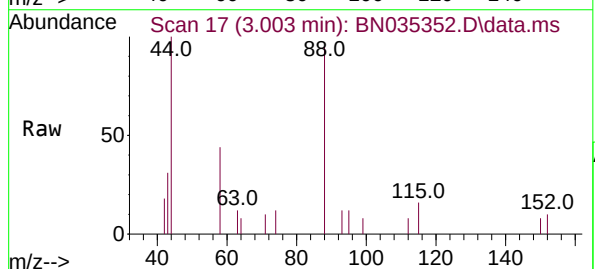
Manual Integrations  
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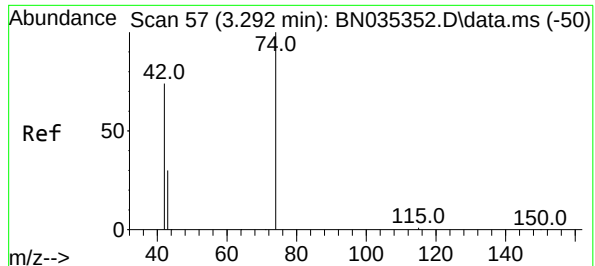
Reviewed By :Yogesh Patel 11/29/2024  
Supervised By :mohammad ahmed 11/29/2024



#2  
1,4-Dioxane  
Concen: 0.414 ng  
RT: 3.003 min Scan# 17  
Delta R.T. 0.000 min  
Lab File: BN035352.D  
Acq: 27 Nov 2024 16:46

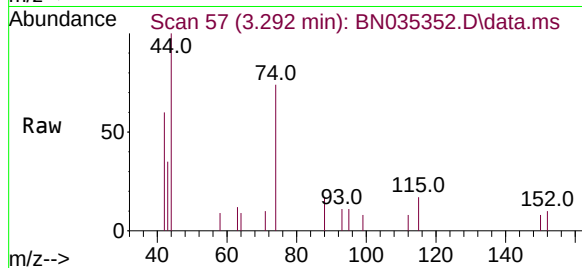
Tgt Ion: 88 Resp: 771  
Ion Ratio Lower Upper  
88 100  
43 21.5 17.2 25.8  
58 55.6 44.5 66.7





#3  
n-Nitrosodimethylamine  
Concen: 0.385 ng  
RT: 3.292 min Scan# 51  
Delta R.T. 0.000 min  
Lab File: BN035352.D  
Acq: 27 Nov 2024 16:46

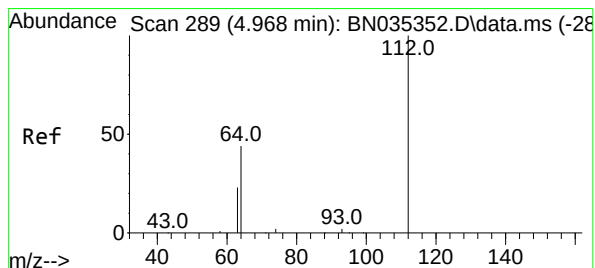
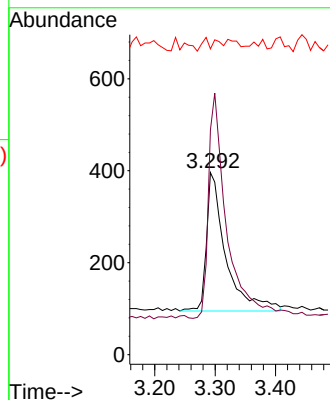
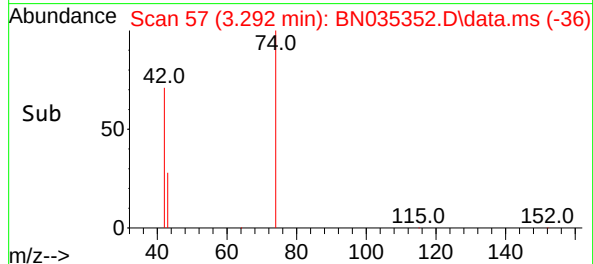
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICCC0.4



Tgt Ion: 42 Resp: 668  
Ion Ratio Lower Upper  
42 100  
74 156.1 124.9 187.3  
44 2.8 2.2 3.4

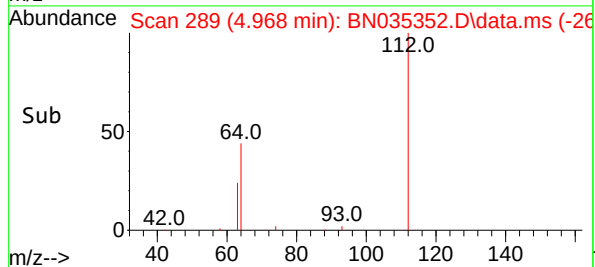
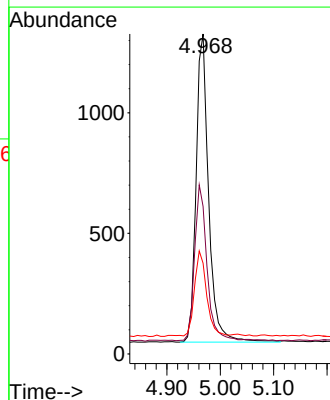
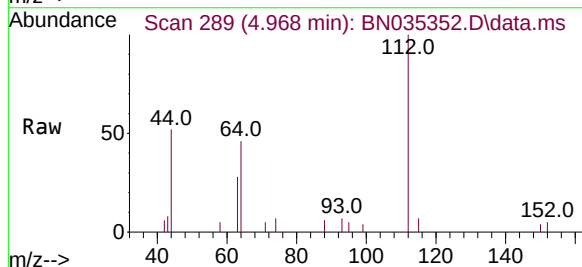
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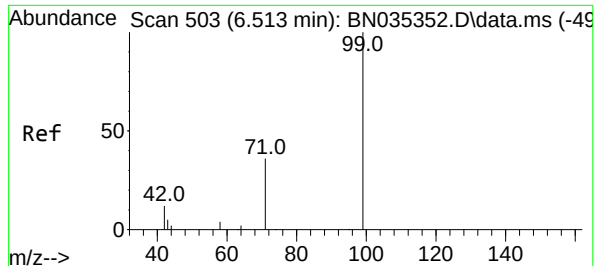
Reviewed By :Yogesh Patel 11/29/2024  
Supervised By :mohammad ahmed 11/29/2024



#4  
2-Fluorophenol  
Concen: 0.401 ng  
RT: 4.968 min Scan# 289  
Delta R.T. 0.000 min  
Lab File: BN035352.D  
Acq: 27 Nov 2024 16:46

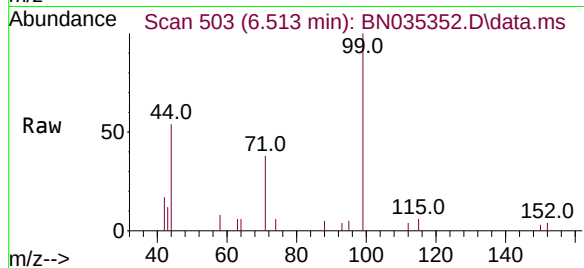
Tgt Ion:112 Resp: 2085  
Ion Ratio Lower Upper  
112 100  
64 49.8 39.8 59.8  
63 26.3 21.0 31.6





#5  
Phenol-d6  
Concen: 0.375 ng  
RT: 6.513 min Scan# 503  
Delta R.T. 0.000 min  
Lab File: BN035352.D  
Acq: 27 Nov 2024 16:46

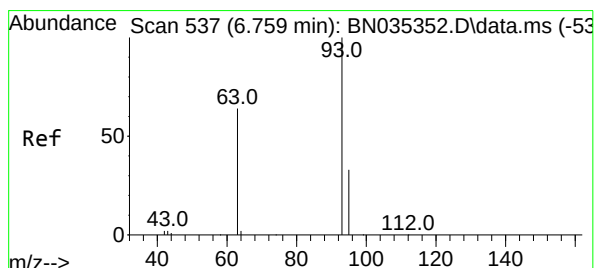
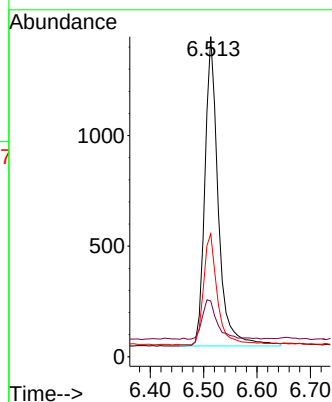
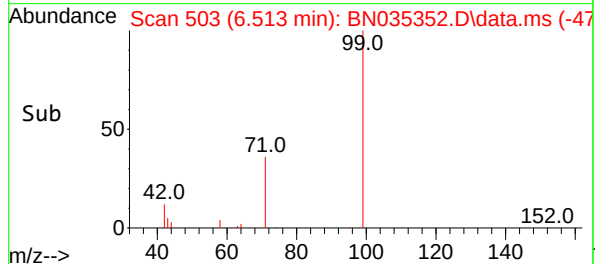
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICCC0.4



Tgt Ion: 99 Resp: 244  
Ion Ratio Lower Upper  
99 100  
42 14.3 11.4 17.2  
71 36.6 29.3 43.9

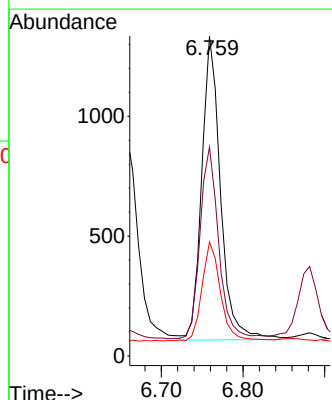
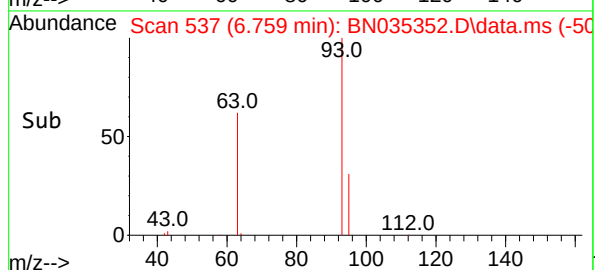
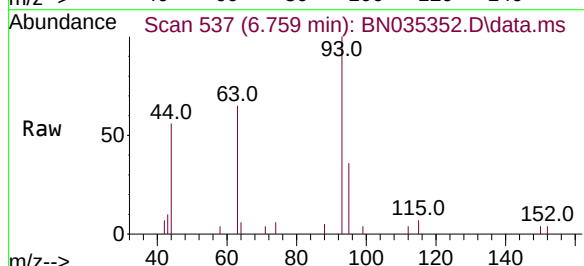
Manual Integrations  
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Reviewed By :Yogesh Patel 11/29/2024  
Supervised By :mohammad ahmed 11/29/2024

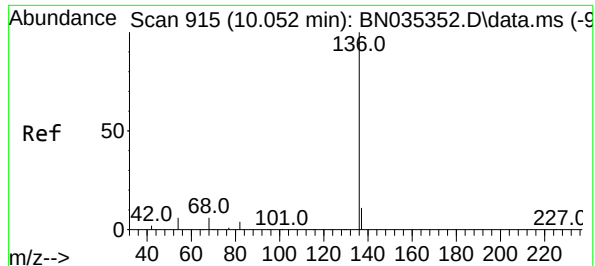


#6  
bis(2-Chloroethyl)ether  
Concen: 0.415 ng  
RT: 6.759 min Scan# 537  
Delta R.T. 0.000 min  
Lab File: BN035352.D  
Acq: 27 Nov 2024 16:46

Tgt Ion: 93 Resp: 2032  
Ion Ratio Lower Upper  
93 100  
63 63.0 50.4 75.6  
95 32.1 25.7 38.5

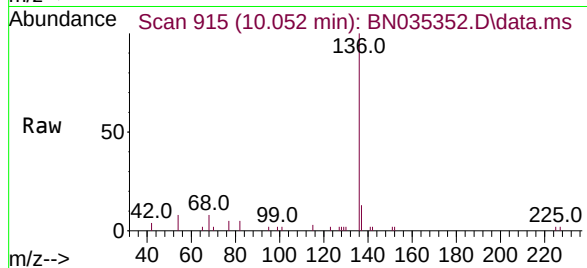






#7  
Naphthalene-d8  
Concen: 0.400 ng  
RT: 10.052 min Scan# 915  
Delta R.T. 0.000 min  
Lab File: BN035352.D  
Acq: 27 Nov 2024 16:46

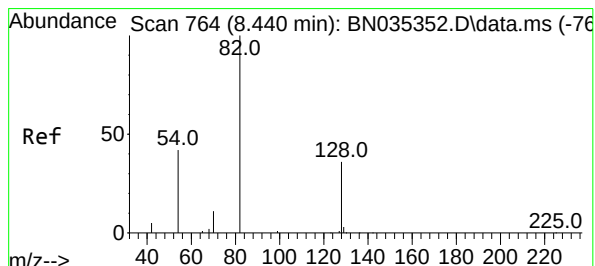
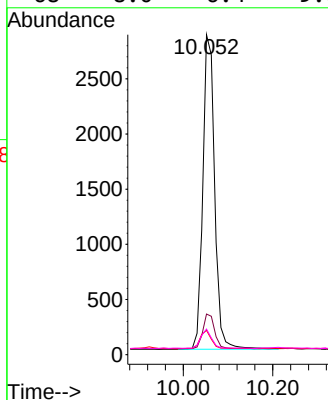
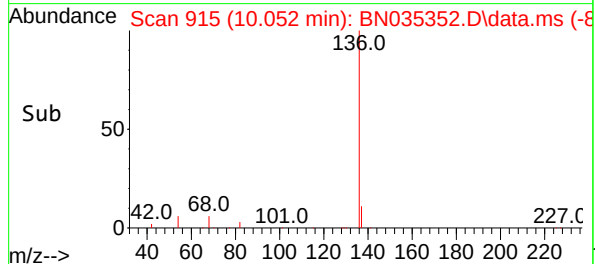
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICCC0.4



| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 136     | 100   |       |       |
| 137     | 12.7  | 10.2  | 15.2  |
| 54      | 7.6   | 6.1   | 9.1   |
| 68      | 8.0   | 6.4   | 9.6   |

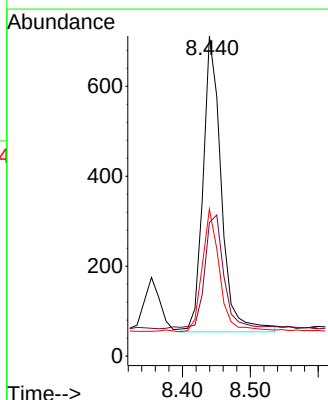
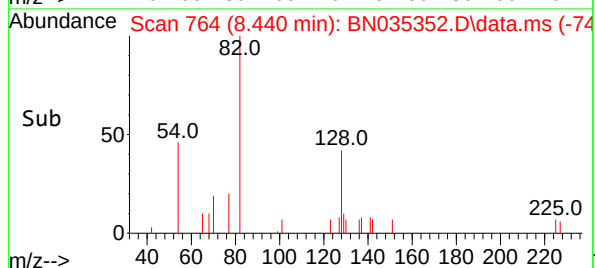
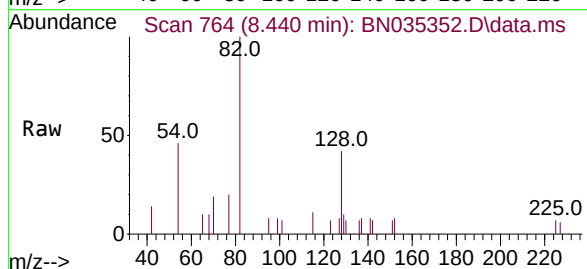
Manual Integrations  
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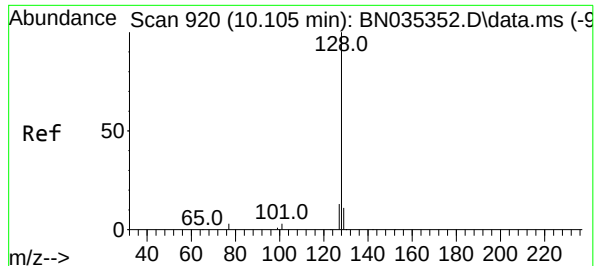
Reviewed By :Yogesh Patel 11/29/2024  
Supervised By :mohammad ahmed 11/29/2024



#8  
Nitrobenzene-d5  
Concen: 0.270 ng m  
RT: 8.440 min Scan# 764  
Delta R.T. 0.000 min  
Lab File: BN035352.D  
Acq: 27 Nov 2024 16:46

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 82      | 100   |       |       |
| 128     | 41.7  | 33.4  | 50.0  |
| 54      | 45.9  | 36.7  | 55.1  |





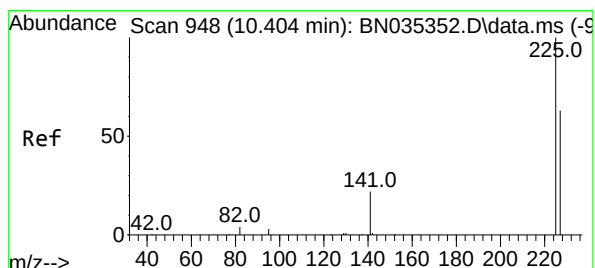
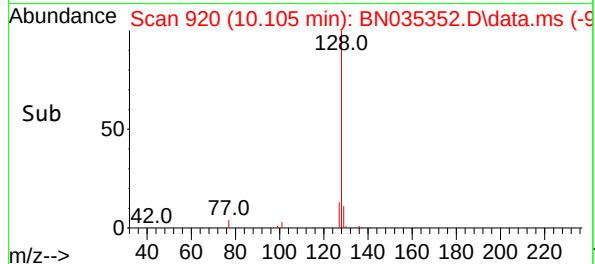
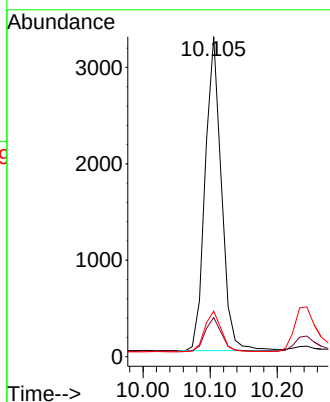
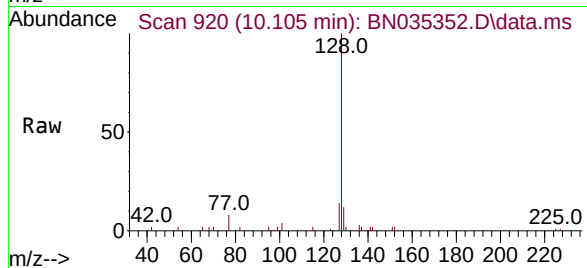
#9  
Naphthalene  
Concen: 0.401 ng  
RT: 10.105 min Scan# 912  
Delta R.T. 0.000 min  
Lab File: BN035352.D  
Acq: 27 Nov 2024 16:46

Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICCC0.4

Tgt Ion:128 Resp: 547  
Ion Ratio Lower Upper  
128 100  
129 12.2 9.8 14.6  
127 14.3 11.4 17.2

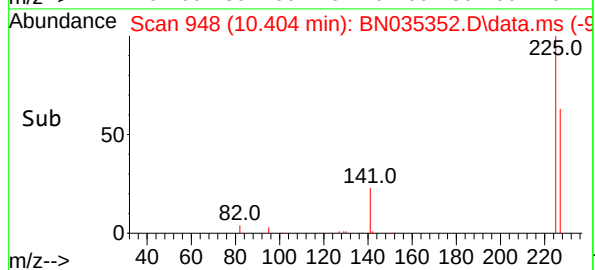
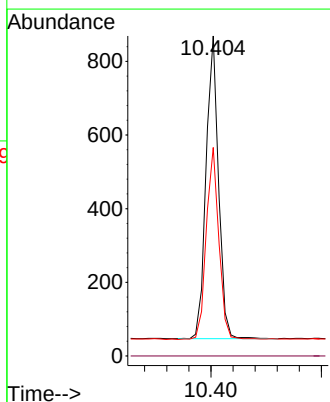
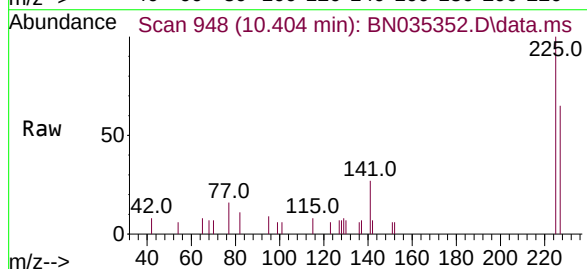
Manual Integrations  
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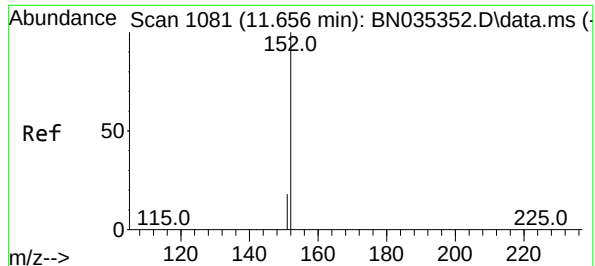
Reviewed By :Yogesh Patel 11/29/2024  
Supervised By :mohammad ahmed 11/29/2024



#10  
Hexachlorobutadiene  
Concen: 0.323 ng  
RT: 10.404 min Scan# 948  
Delta R.T. 0.000 min  
Lab File: BN035352.D  
Acq: 27 Nov 2024 16:46

Tgt Ion:225 Resp: 1292  
Ion Ratio Lower Upper  
225 100  
223 0.0 0.0 0.0  
227 64.1 51.3 76.9





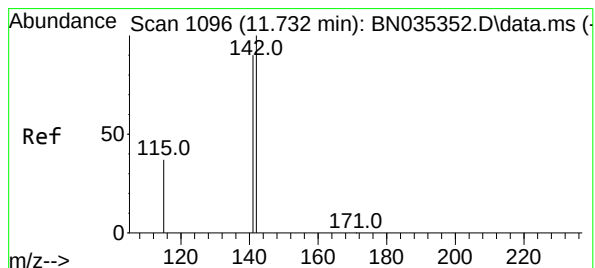
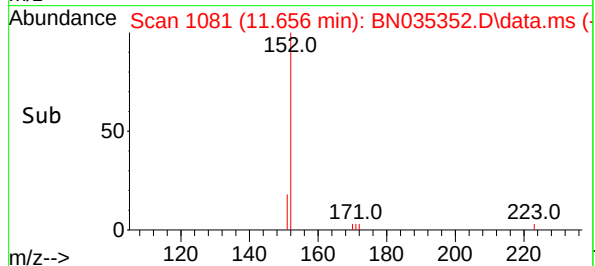
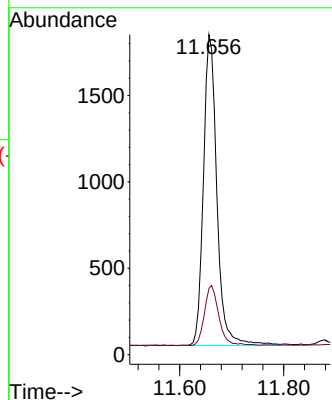
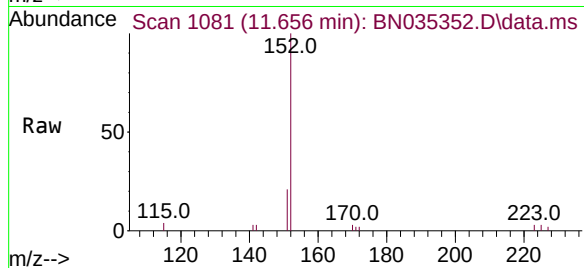
#11  
2-Methylnaphthalene-d10  
Concen: 0.347 ng  
RT: 11.656 min Scan# 1081  
Delta R.T. 0.000 min  
Lab File: BN035352.D  
Acq: 27 Nov 2024 16:46

Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICCC0.4

Tgt Ion:152 Resp: 323  
Ion Ratio Lower Upper  
152 100  
151 20.8 16.6 25.0

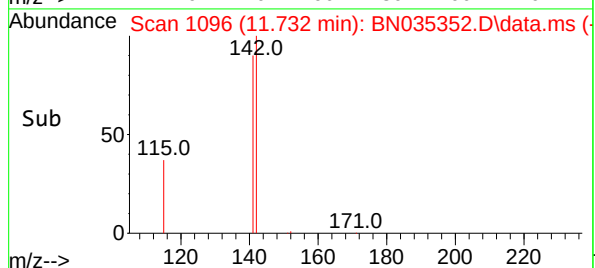
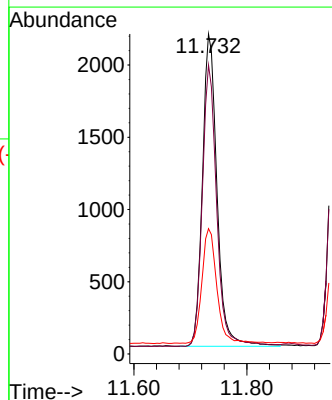
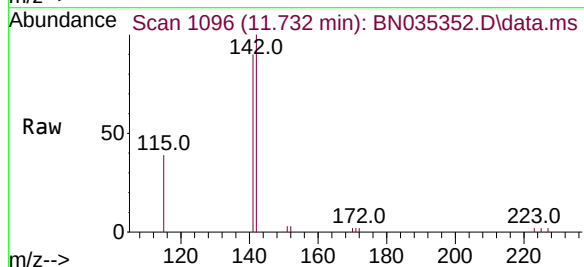
Manual Integrations  
APPROVED

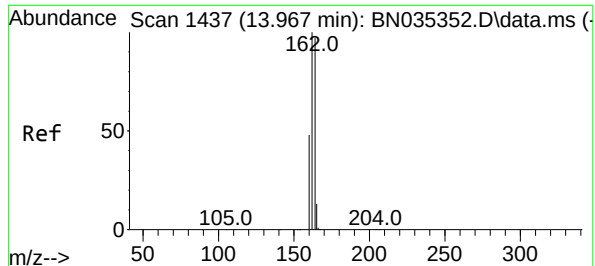
Reviewed By :Yogesh Patel 11/29/2024  
Supervised By :mohammad ahmed 11/29/2024



#12  
2-Methylnaphthalene  
Concen: 0.384 ng  
RT: 11.732 min Scan# 1096  
Delta R.T. 0.000 min  
Lab File: BN035352.D  
Acq: 27 Nov 2024 16:46

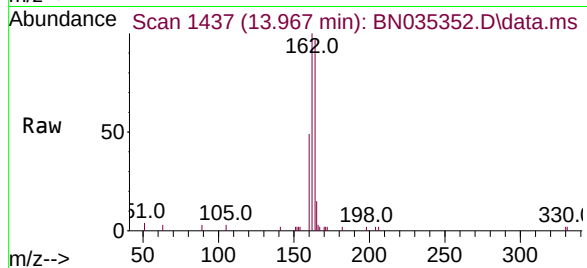
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Ion Ratio Lower Upper  
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141 90.3 72.2 108.4  
115 39.2 31.4 47.0





#13  
Acenaphthene-d10  
Concen: 0.400 ng  
RT: 13.967 min Scan# 1437  
Delta R.T. 0.000 min  
Lab File: BN035352.D  
Acq: 27 Nov 2024 16:46

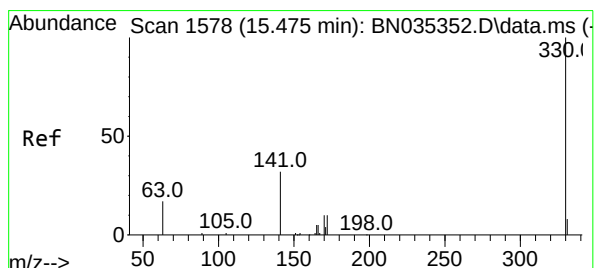
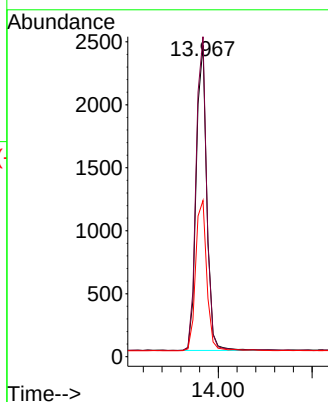
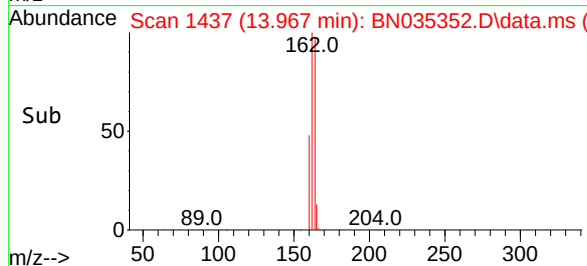
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICCC0.4



Tgt Ion:164 Resp: 3799  
Ion Ratio Lower Upper  
164 100  
162 102.7 82.2 123.2  
160 50.1 40.1 60.1

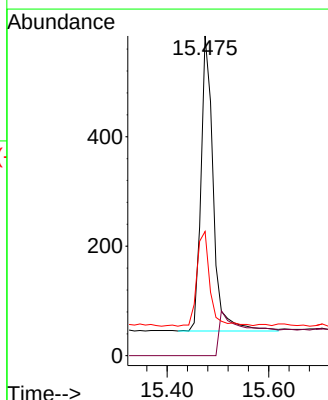
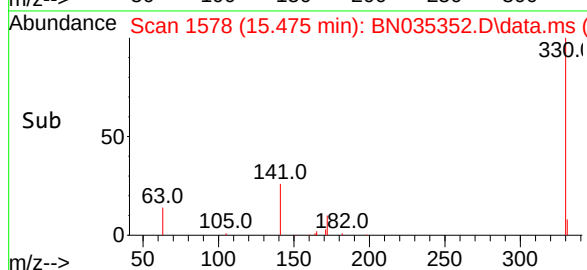
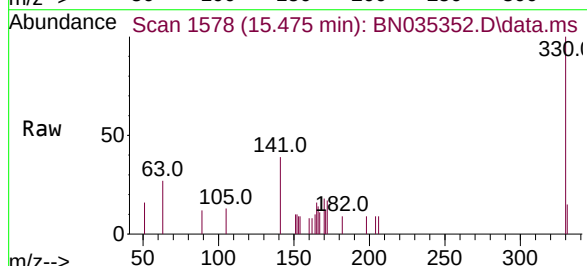
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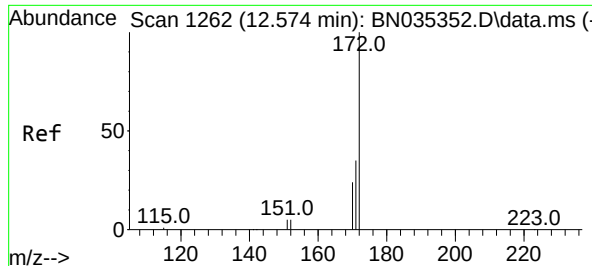
Reviewed By :Yogesh Patel 11/29/2024  
Supervised By :mohammad ahmed 11/29/2024



#14  
2,4,6-Tribromophenol  
Concen: 0.356 ng  
RT: 15.475 min Scan# 1578  
Delta R.T. 0.000 min  
Lab File: BN035352.D  
Acq: 27 Nov 2024 16:46

Tgt Ion:330 Resp: 975  
Ion Ratio Lower Upper  
330 100  
332 0.0 0.0 0.0  
141 33.3 26.6 40.0





#15

2-Fluorobiphenyl

Concen: 0.372 ng

RT: 12.574 min Scan# 1262

Delta R.T. 0.000 min

Lab File: BN035352.D

Acq: 27 Nov 2024 16:46

Instrument :

BNA\_N

ClientSampleId :

SSTDICCC0.4

Tgt Ion:172 Resp: 573

Ion Ratio Lower Upper

172 100

171 36.2 29.0 43.4

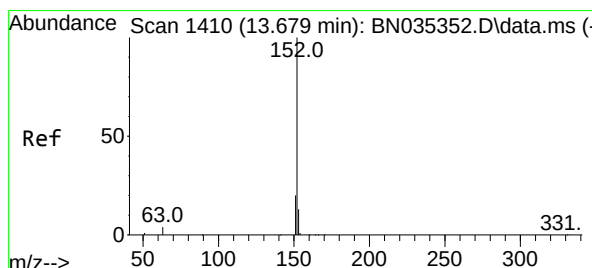
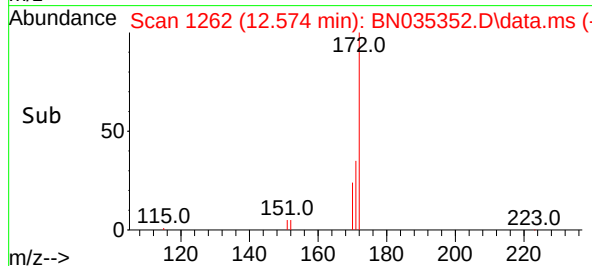
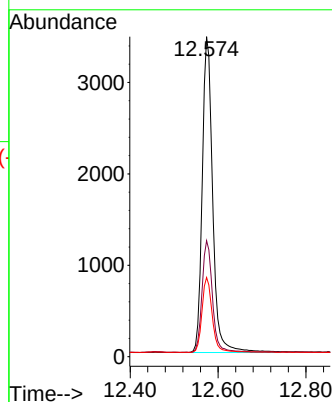
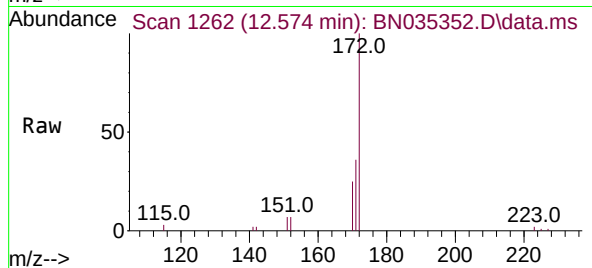
170 24.8 19.8 29.8

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Reviewed By :Yogesh Patel 11/29/2024

Supervised By :mohammad ahmed 11/29/2024



#16

Acenaphthylene

Concen: 0.373 ng

RT: 13.679 min Scan# 1410

Delta R.T. 0.000 min

Lab File: BN035352.D

Acq: 27 Nov 2024 16:46

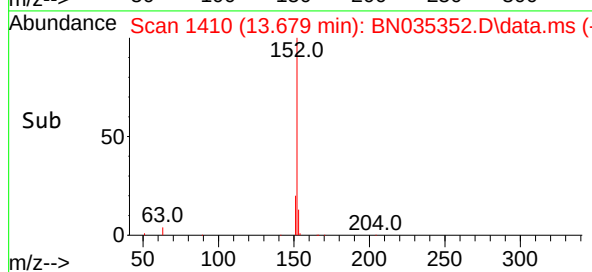
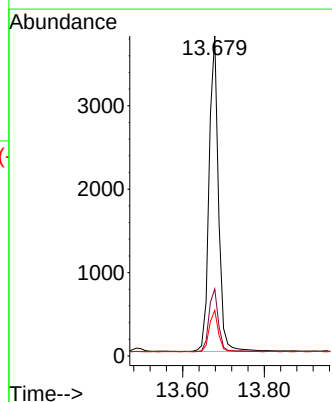
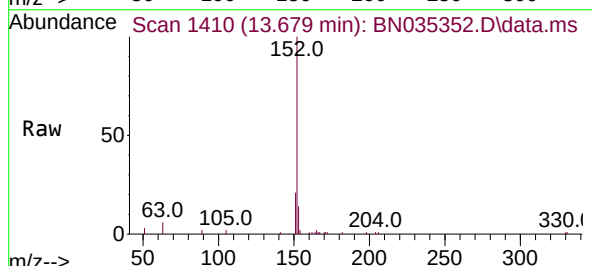
Tgt Ion:152 Resp: 6058

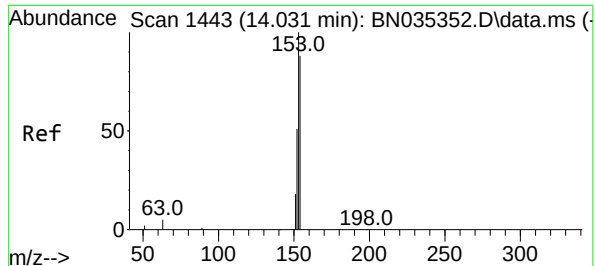
Ion Ratio Lower Upper

152 100

151 20.2 16.2 24.2

153 13.0 10.4 15.6





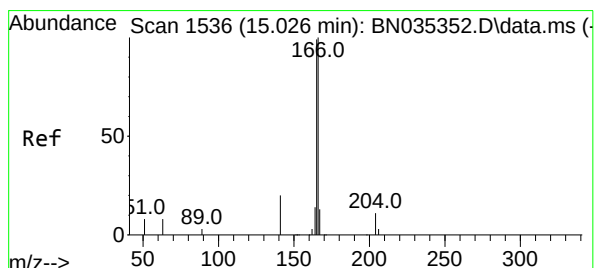
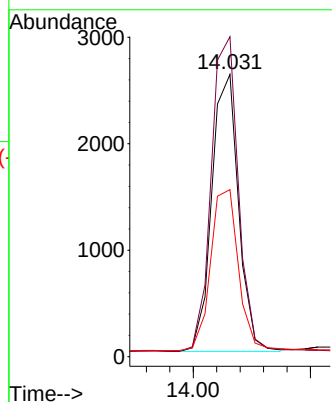
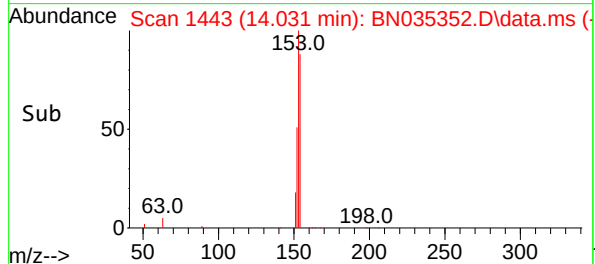
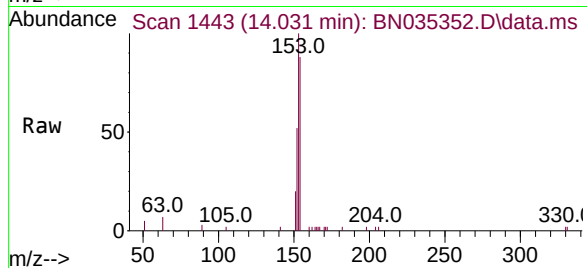
#17  
Acenaphthene  
Concen: 0.388 ng  
RT: 14.031 min Scan# 1443  
Delta R.T. 0.000 min  
Lab File: BN035352.D  
Acq: 27 Nov 2024 16:46

Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICCC0.4

Tgt Ion:154 Resp: 4125  
Ion Ratio Lower Upper  
154 100  
153 115.8 92.6 139.0  
152 61.3 49.0 73.6

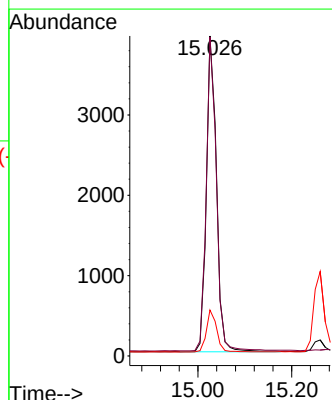
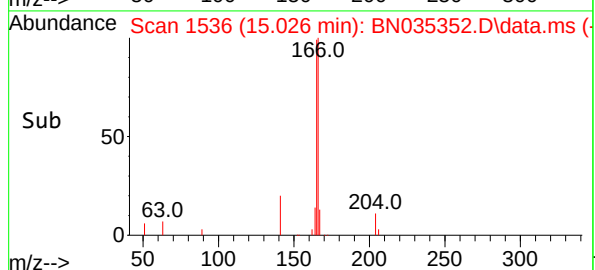
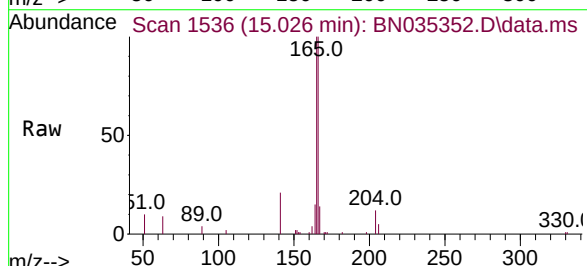
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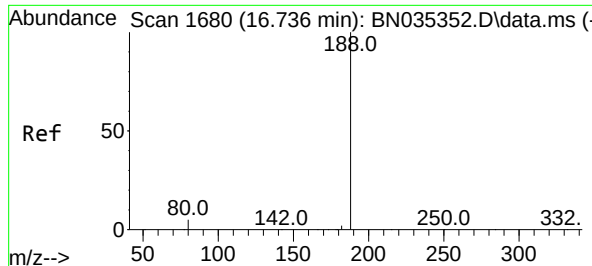
Reviewed By :Yogesh Patel 11/29/2024  
Supervised By :mohammad ahmed 11/29/2024



#18  
Fluorene  
Concen: 0.375 ng  
RT: 15.026 min Scan# 1536  
Delta R.T. 0.000 min  
Lab File: BN035352.D  
Acq: 27 Nov 2024 16:46

Tgt Ion:166 Resp: 5863  
Ion Ratio Lower Upper  
166 100  
165 99.6 79.7 119.5  
167 13.5 10.8 16.2





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 16.736 min Scan# 1

Delta R.T. 0.000 min

Lab File: BN035352.D

Acq: 27 Nov 2024 16:46

Instrument :

BNA\_N

ClientSampleId :

SSTDICCC0.4

Tgt Ion:188 Resp: 9490

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

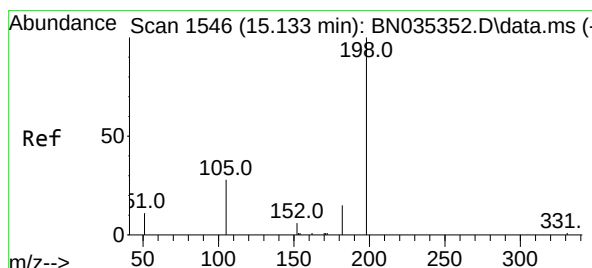
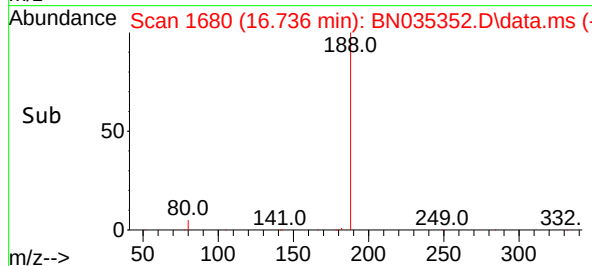
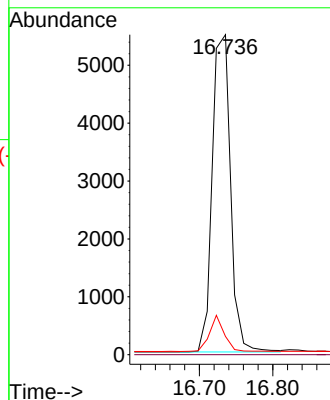
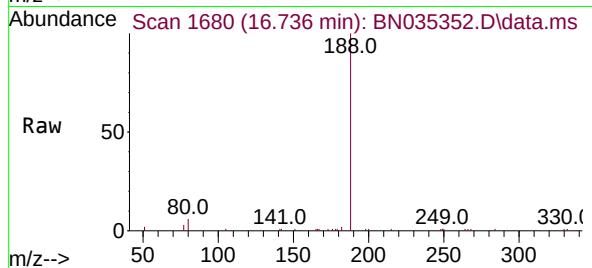
80 5.7 4.6 6.8

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Reviewed By :Yogesh Patel 11/29/2024

Supervised By :mohammad ahmed 11/29/2024



#20

4,6-Dinitro-2-methylphenol

Concen: 0.171 ng

RT: 15.133 min Scan# 1546

Delta R.T. 0.000 min

Lab File: BN035352.D

Acq: 27 Nov 2024 16:46

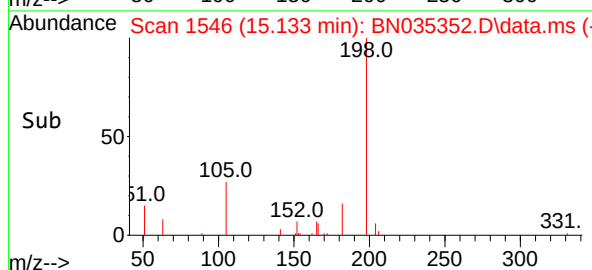
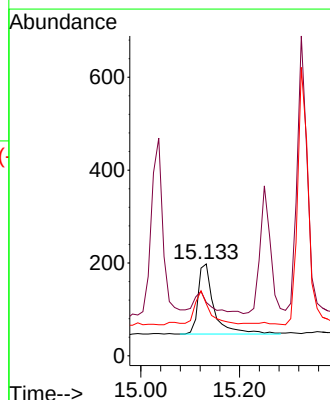
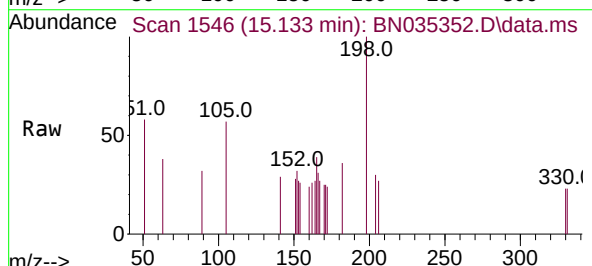
Tgt Ion:198 Resp: 337

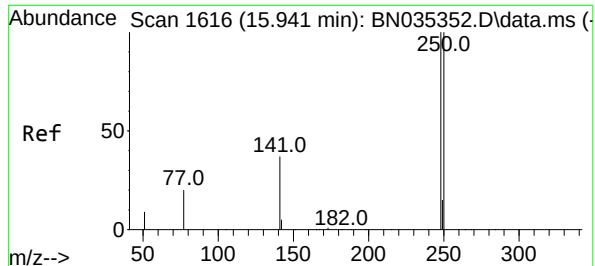
Ion Ratio Lower Upper

198 100

51 58.1 46.5 69.7

105 56.6 45.3 67.9





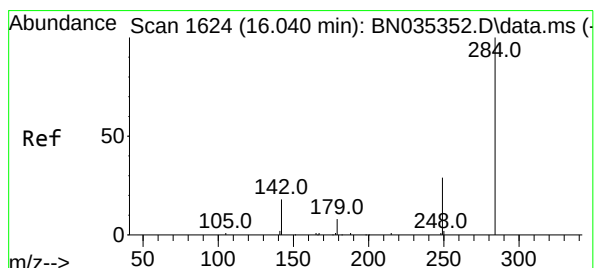
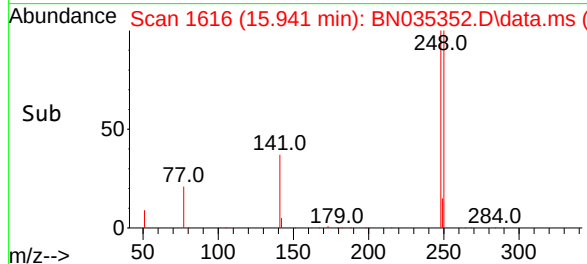
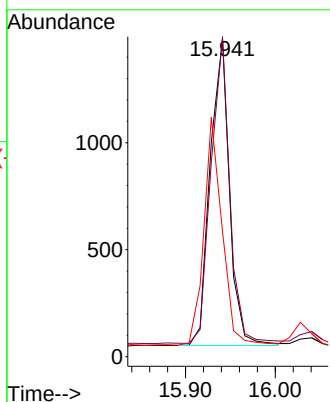
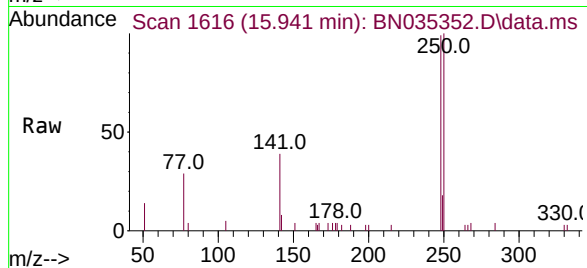
#21  
4-Bromophenyl-phenylether  
Concen: 0.355 ng  
RT: 15.941 min Scan# 1616  
Delta R.T. 0.000 min  
Lab File: BN035352.D  
Acq: 27 Nov 2024 16:46

Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICCC0.4

Tgt Ion:248 Resp: 2140  
Ion Ratio Lower Upper  
248 100  
250 100.7 80.6 120.8  
141 39.4 31.5 47.3

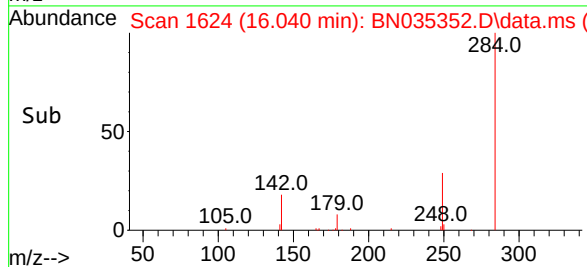
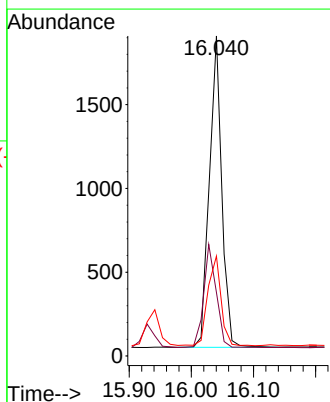
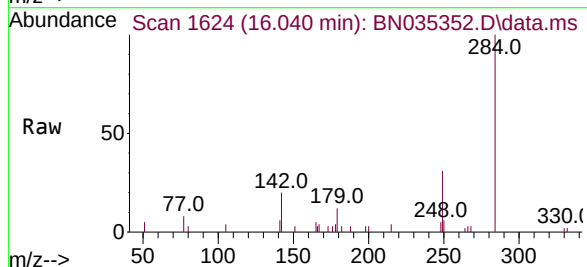
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Reviewed By :Yogesh Patel 11/29/2024  
Supervised By :mohammad ahmed 11/29/2024

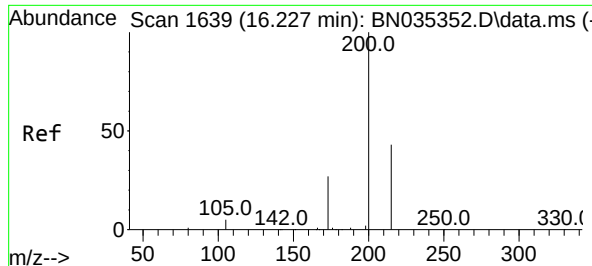


#22  
Hexachlorobenzene  
Concen: 0.413 ng  
RT: 16.040 min Scan# 1624  
Delta R.T. 0.000 min  
Lab File: BN035352.D  
Acq: 27 Nov 2024 16:46

Tgt Ion:284 Resp: 2590  
Ion Ratio Lower Upper  
284 100  
142 33.4 26.7 40.1  
249 30.7 24.6 36.8

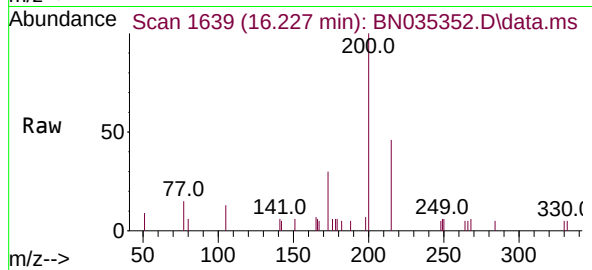






#23  
Atrazine  
Concen: 0.269 ng  
RT: 16.227 min Scan# 1639  
Delta R.T. 0.000 min  
Lab File: BN035352.D  
Acq: 27 Nov 2024 16:46

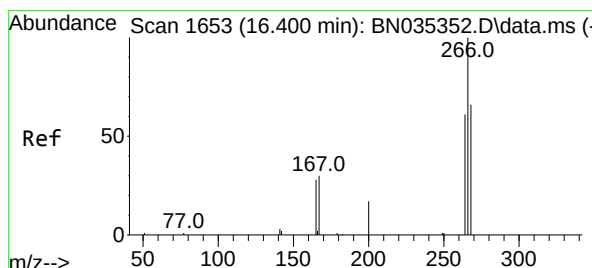
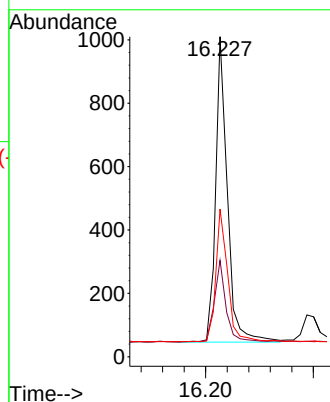
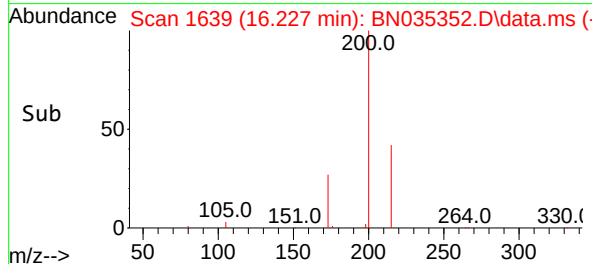
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICCC0.4



Tgt Ion:200 Resp: 146  
Ion Ratio Lower Upper  
200 100  
173 30.1 24.1 36.1  
215 46.1 36.9 55.3

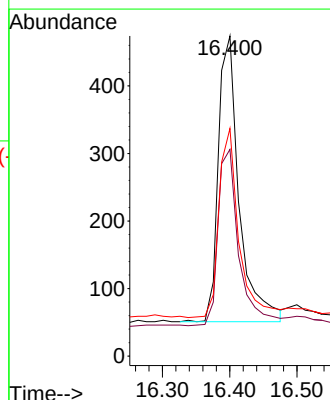
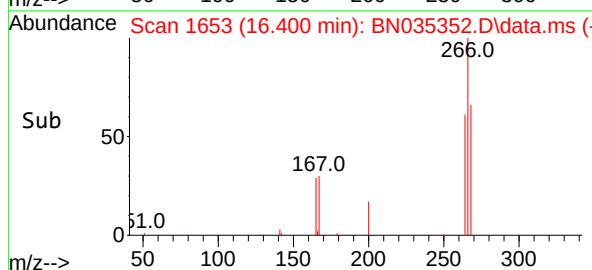
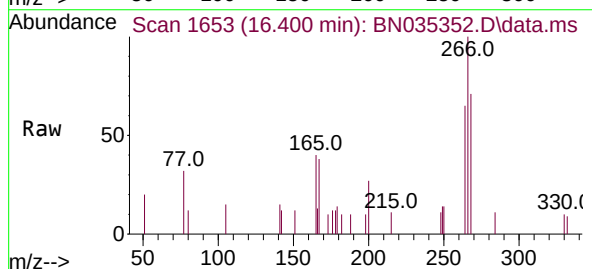
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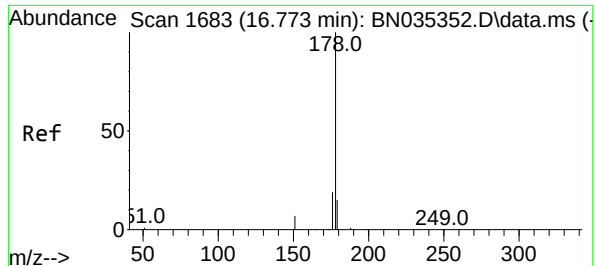
Reviewed By :Yogesh Patel 11/29/2024  
Supervised By :mohammad ahmed 11/29/2024



#24  
Pentachlorophenol  
Concen: 0.309 ng  
RT: 16.400 min Scan# 1653  
Delta R.T. 0.000 min  
Lab File: BN035352.D  
Acq: 27 Nov 2024 16:46

Tgt Ion:266 Resp: 906  
Ion Ratio Lower Upper  
266 100  
264 62.4 42.3 63.5  
268 63.8 43.3 64.9





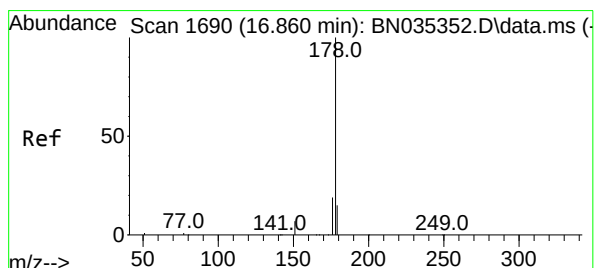
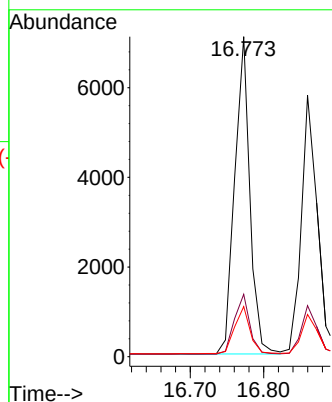
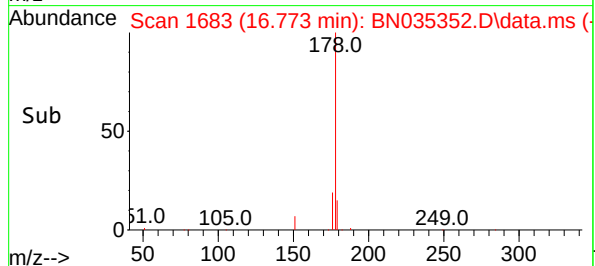
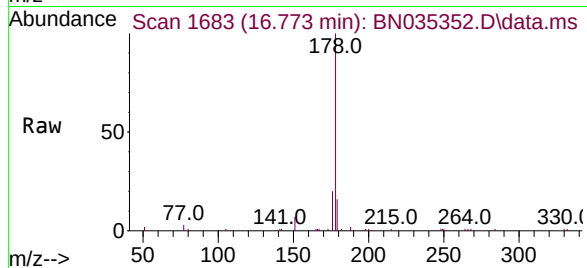
#25  
Phenanthrene  
Concen: 0.405 ng  
RT: 16.773 min Scan# 1683  
Delta R.T. 0.000 min  
Lab File: BN035352.D  
Acq: 27 Nov 2024 16:46

Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICCC0.4

Tgt Ion:178 Resp: 1012  
Ion Ratio Lower Upper  
178 100  
176 19.3 15.4 23.2  
179 15.4 12.3 18.5

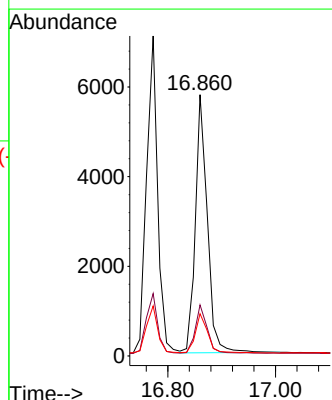
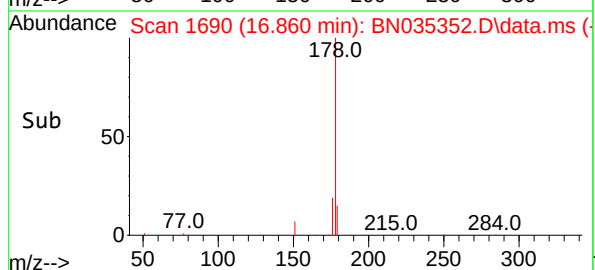
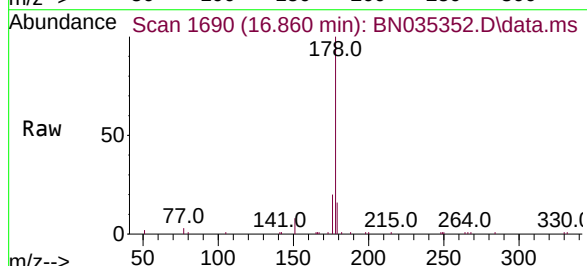
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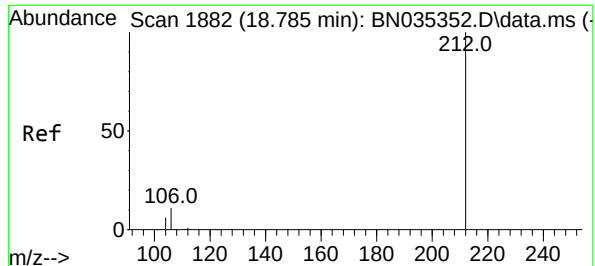
Reviewed By :Yogesh Patel 11/29/2024  
Supervised By :mohammad ahmed 11/29/2024



#26  
Anthracene  
Concen: 0.389 ng  
RT: 16.860 min Scan# 1690  
Delta R.T. 0.000 min  
Lab File: BN035352.D  
Acq: 27 Nov 2024 16:46

Tgt Ion:178 Resp: 8921  
Ion Ratio Lower Upper  
178 100  
176 18.8 15.0 22.6  
179 15.7 12.6 18.8





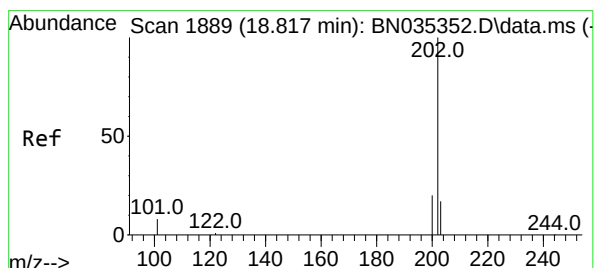
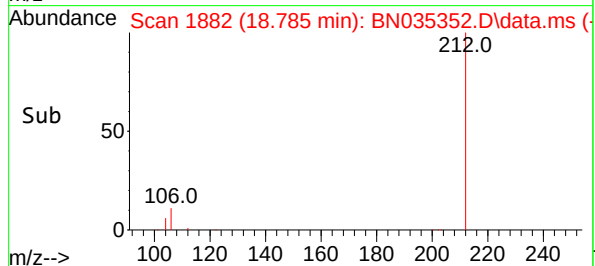
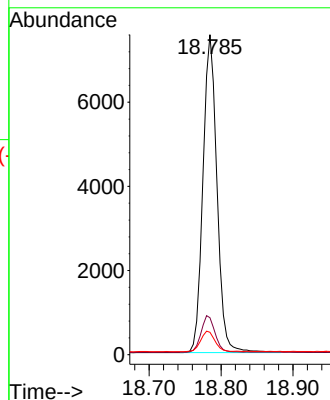
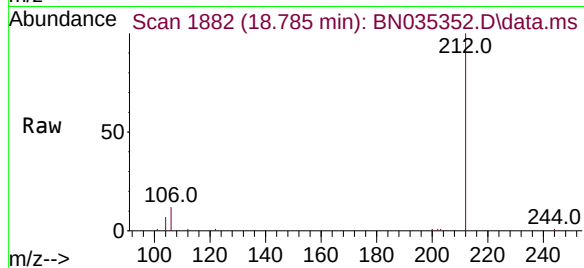
#27  
Fluoranthene-d10  
Concen: 0.352 ng  
RT: 18.785 min Scan# 1882  
Delta R.T. 0.000 min  
Lab File: BN035352.D  
Acq: 27 Nov 2024 16:46

Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICCC0.4

Tgt Ion:212 Resp: 1022  
Ion Ratio Lower Upper  
212 100  
106 11.5 9.2 13.8  
104 6.6 5.3 7.9

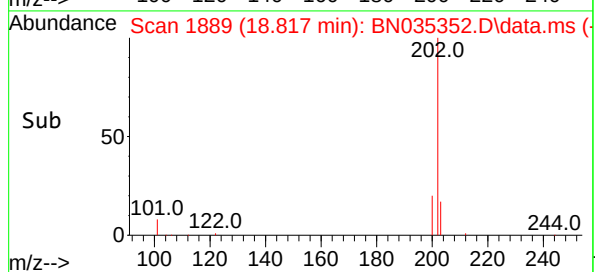
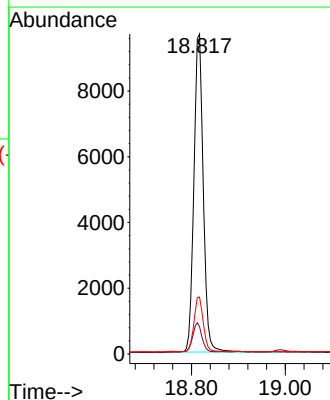
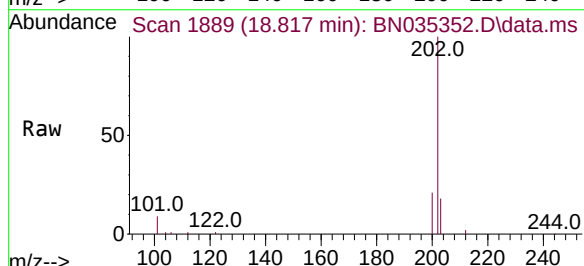
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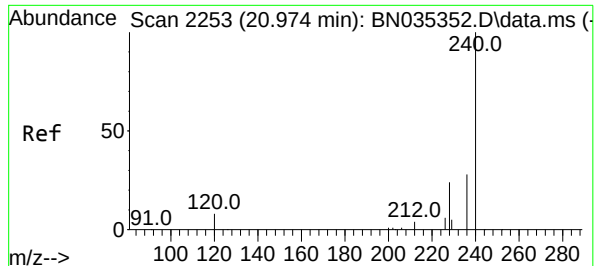
Reviewed By :Yogesh Patel 11/29/2024  
Supervised By :mohammad ahmed 11/29/2024



#28  
Fluoranthene  
Concen: 0.391 ng  
RT: 18.817 min Scan# 1889  
Delta R.T. 0.000 min  
Lab File: BN035352.D  
Acq: 27 Nov 2024 16:46

Tgt Ion:202 Resp: 13438  
Ion Ratio Lower Upper  
202 100  
101 9.2 7.4 11.0  
203 17.1 13.7 20.5





#29

Chrysene-d12

Concen: 0.400 ng

RT: 20.974 min Scan# 21

Delta R.T. 0.000 min

Lab File: BN035352.D

Acq: 27 Nov 2024 16:46

Instrument :

BNA\_N

ClientSampleId :

SSTDICCC0.4

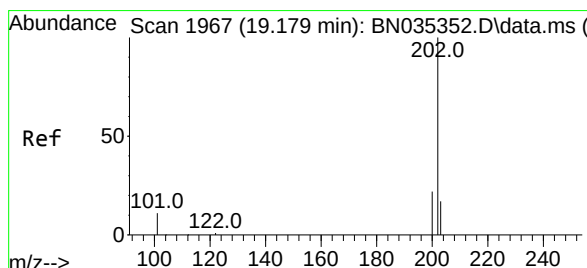
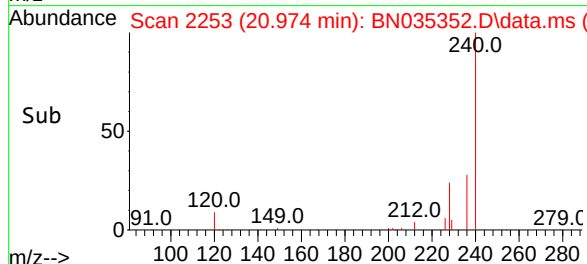
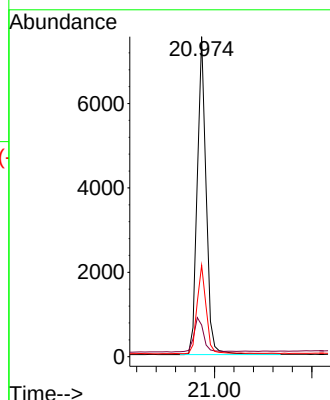
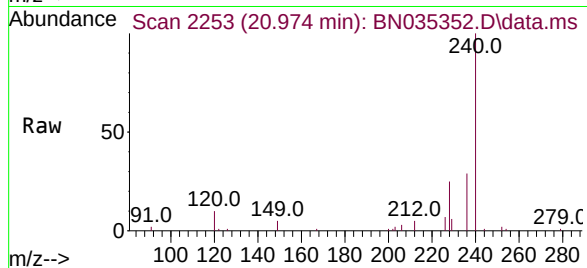
|           |       |       |      |
|-----------|-------|-------|------|
| Tgt Ion:  | 240   | Resp: | 952  |
| Ion Ratio | Lower | Upper |      |
| 240       | 100   |       |      |
| 120       | 9.9   | 7.9   | 11.9 |
| 236       | 28.6  | 22.9  | 34.3 |

## Manual Integrations

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Reviewed By :Yogesh Patel 11/29/2024

Supervised By :mohammad ahmed 11/29/2024



#30

Pyrene

Concen: 0.443 ng

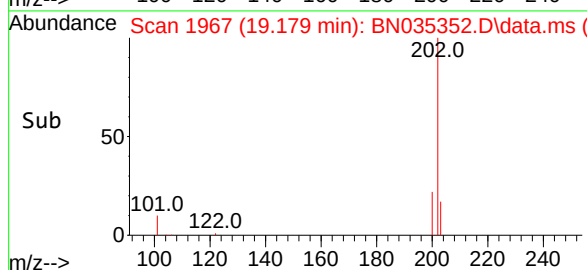
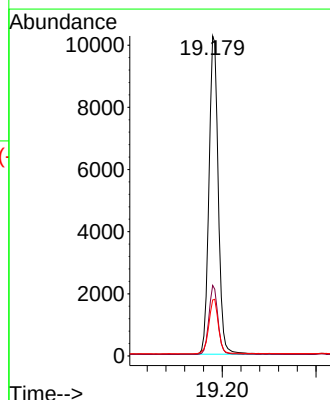
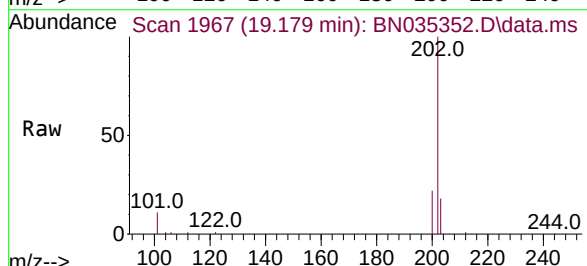
RT: 19.179 min Scan# 1967

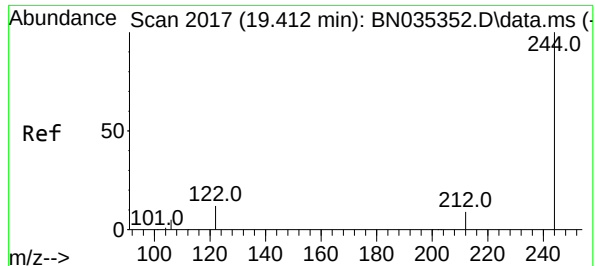
Delta R.T. 0.000 min

Lab File: BN035352.D

Acq: 27 Nov 2024 16:46

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 202   | Resp: | 14053 |
| Ion Ratio | Lower | Upper |       |
| 202       | 100   |       |       |
| 200       | 21.2  | 17.0  | 25.4  |
| 203       | 17.9  | 14.3  | 21.5  |





#31  
Terphenyl-d14  
Concen: 0.377 ng  
RT: 19.412 min Scan# 2017  
Delta R.T. 0.000 min  
Lab File: BN035352.D  
Acq: 27 Nov 2024 16:46

Instrument :

BNA\_N

ClientSampleId :

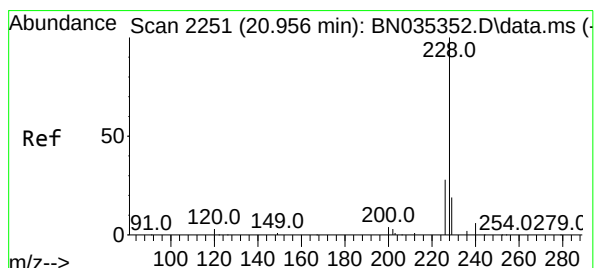
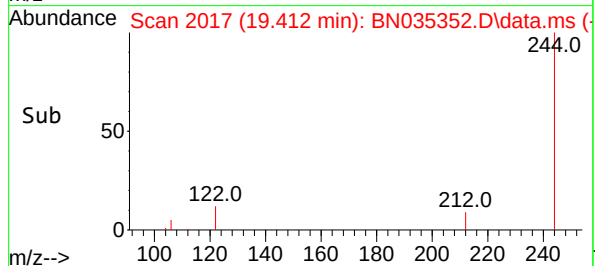
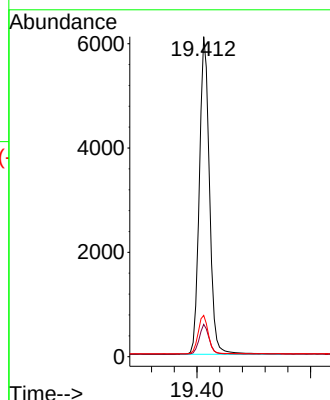
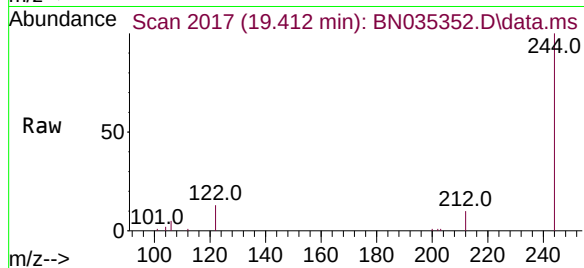
SSTDICCC0.4

Tgt Ion:244 Resp: 753  
Ion Ratio Lower Upper  
244 100  
212 10.1 8.1 12.1  
122 12.9 10.3 15.5

Manual Integrations

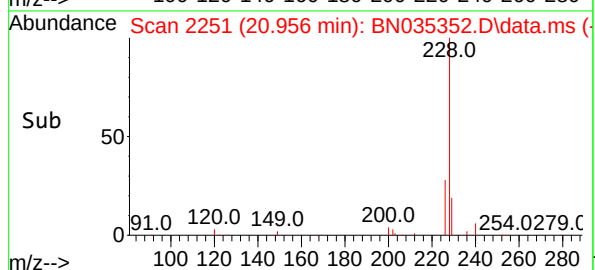
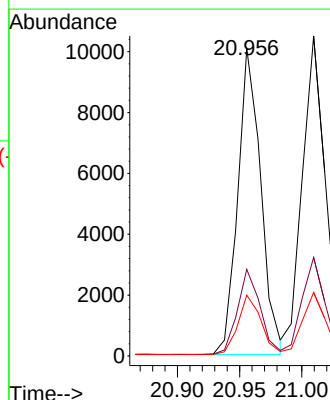
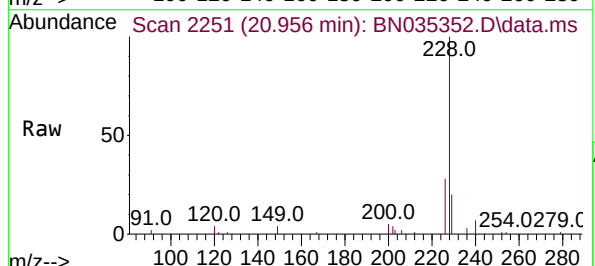
APPROVED

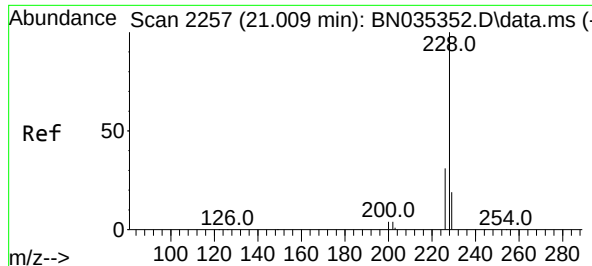
Reviewed By :Yogesh Patel 11/29/2024  
Supervised By :mohammad ahmed 11/29/2024



#32  
Benzo(a)anthracene  
Concen: 0.389 ng  
RT: 20.956 min Scan# 2251  
Delta R.T. 0.000 min  
Lab File: BN035352.D  
Acq: 27 Nov 2024 16:46

Tgt Ion:228 Resp: 12908  
Ion Ratio Lower Upper  
228 100  
226 28.1 22.5 33.7  
229 19.8 15.8 23.8





#33

Chrysene

Concen: 0.418 ng

RT: 21.009 min Scan# 21

Delta R.T. 0.000 min

Lab File: BN035352.D

Acq: 27 Nov 2024 16:46

Instrument :

BNA\_N

ClientSampleId :

SSTDICCC0.4

Tgt Ion:228 Resp: 13729

Ion Ratio Lower Upper

228 100

226 30.8 24.6 37.0

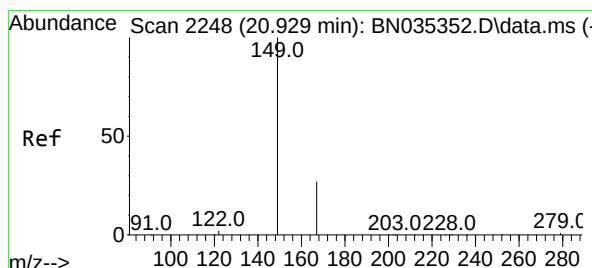
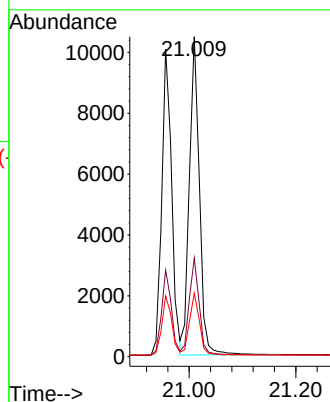
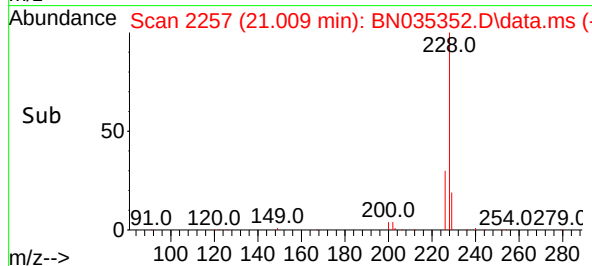
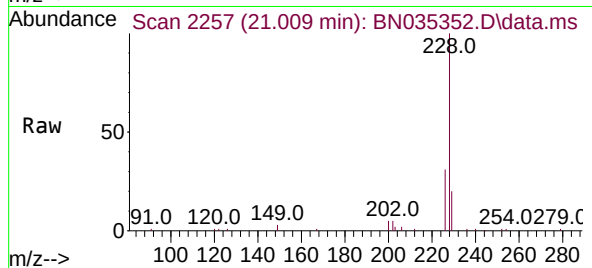
229 19.9 15.9 23.9

Manual Integrations

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#34

Bis(2-ethylhexyl)phthalate

Concen: 0.282 ng

RT: 20.929 min Scan# 2248

Delta R.T. 0.000 min

Lab File: BN035352.D

Acq: 27 Nov 2024 16:46

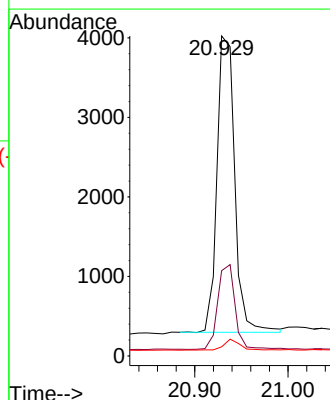
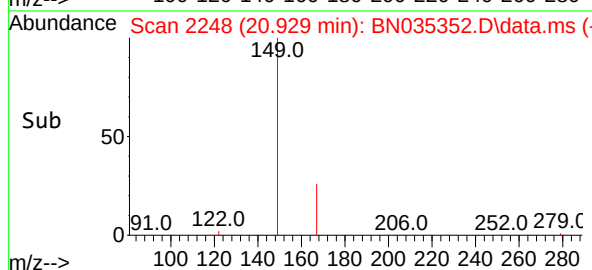
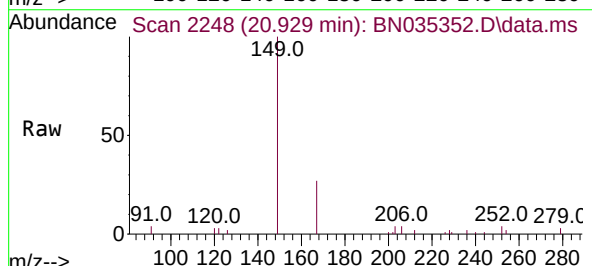
Tgt Ion:149 Resp: 4912

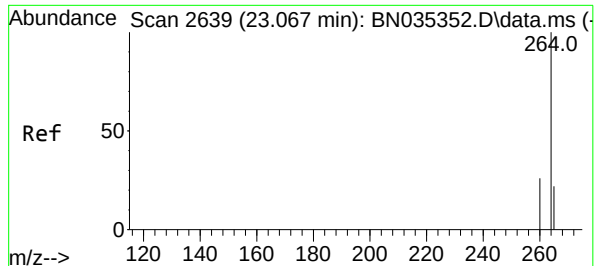
Ion Ratio Lower Upper

149 100

167 27.8 22.2 33.4

279 3.4 2.7 4.1





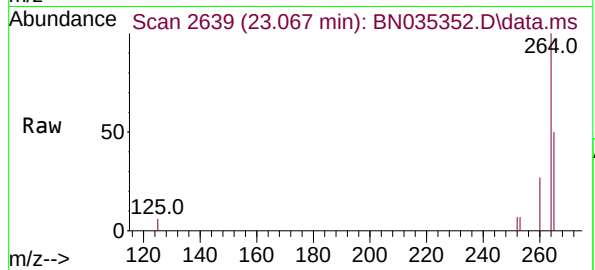
#35  
Perylene-d12  
Concen: 0.400 ng  
RT: 23.067 min Scan# 2639  
Delta R.T. 0.000 min  
Lab File: BN035352.D  
Acq: 27 Nov 2024 16:46

Instrument :

BNA\_N

ClientSampleId :

SSTDICCC0.4



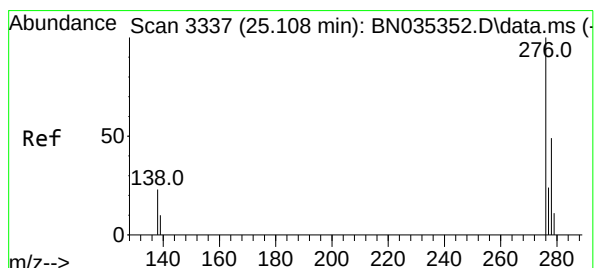
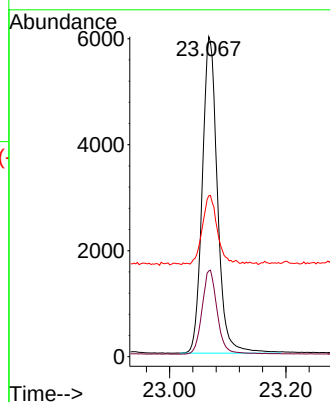
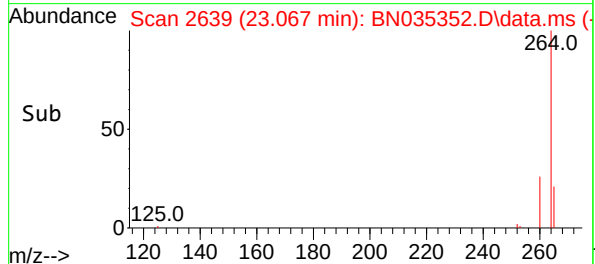
Tgt Ion:264 Resp: 1084  
Ion Ratio Lower Upper  
264 100  
260 26.8 21.4 32.2  
265 50.3 40.2 60.4

Manual Integrations

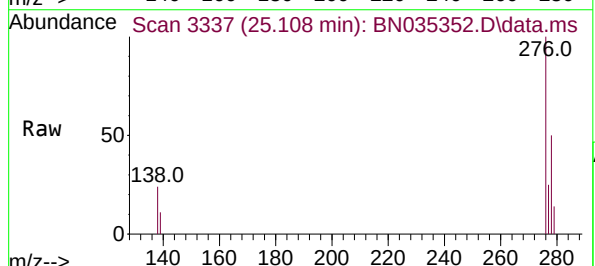
APPROVED

Reviewed By :Yogesh Patel 11/29/2024

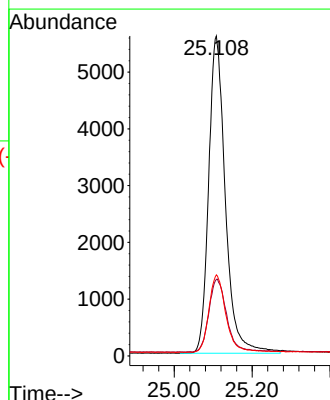
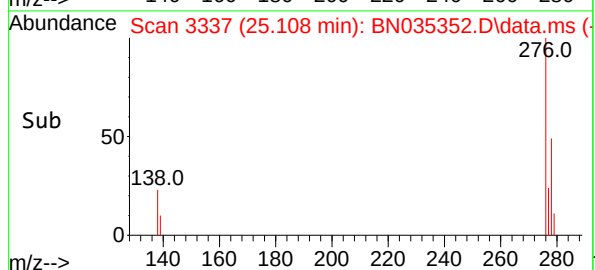
Supervised By :mohammad ahmed 11/29/2024

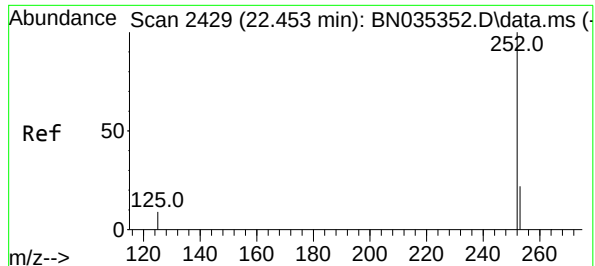


#36  
Indeno(1,2,3-cd)pyrene  
Concen: 0.384 ng  
RT: 25.108 min Scan# 3337  
Delta R.T. 0.000 min  
Lab File: BN035352.D  
Acq: 27 Nov 2024 16:46



Tgt Ion:276 Resp: 16615  
Ion Ratio Lower Upper  
276 100  
138 24.2 19.4 29.0  
277 24.7 19.8 29.6





#37

Benzo(b)fluoranthene

Concen: 0.390 ng

RT: 22.453 min Scan# 2429

Delta R.T. 0.000 min

Lab File: BN035352.D

Acq: 27 Nov 2024 16:46

Instrument :

BNA\_N

ClientSampleId :

SSTDICCC0.4

Tgt Ion:252 Resp: 1423

Ion Ratio Lower Upper

252 100

253 24.5 19.6 29.4

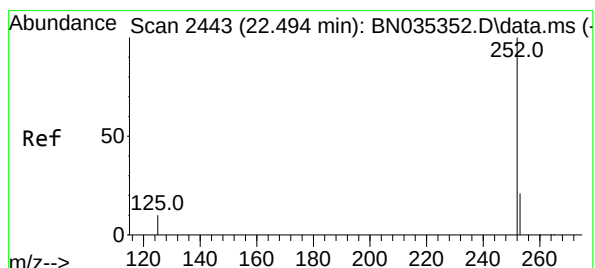
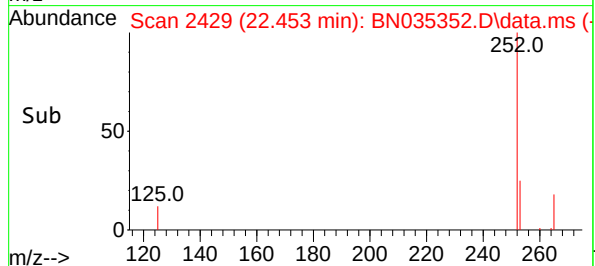
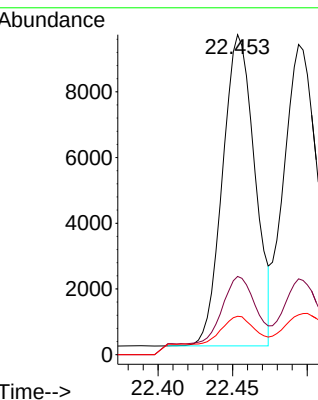
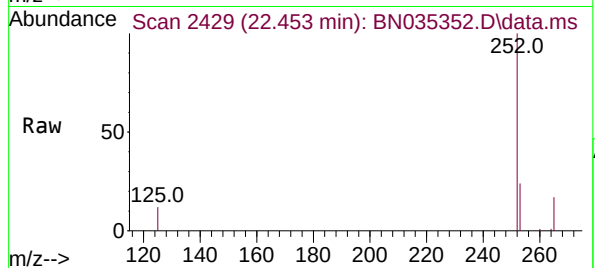
125 12.0 9.6 14.4

Manual Integrations

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Reviewed By :Yogesh Patel 11/29/2024

Supervised By :mohammad ahmed 11/29/2024



#38

Benzo(k)fluoranthene

Concen: 0.416 ng

RT: 22.494 min Scan# 2443

Delta R.T. 0.000 min

Lab File: BN035352.D

Acq: 27 Nov 2024 16:46

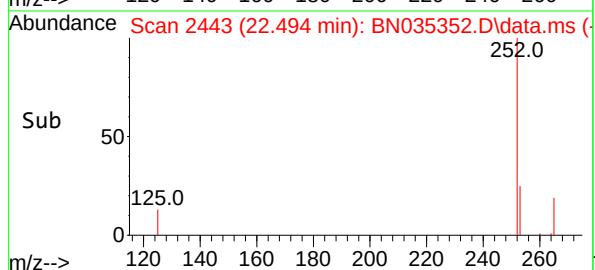
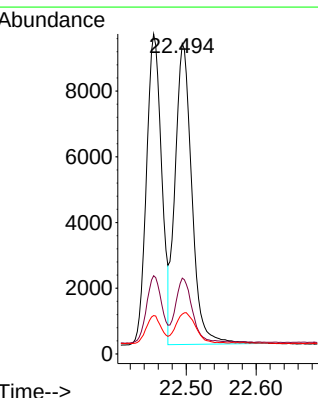
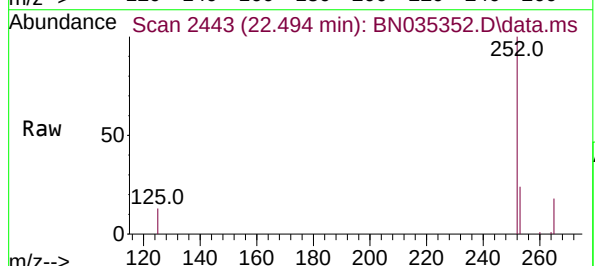
Tgt Ion:252 Resp: 15199

Ion Ratio Lower Upper

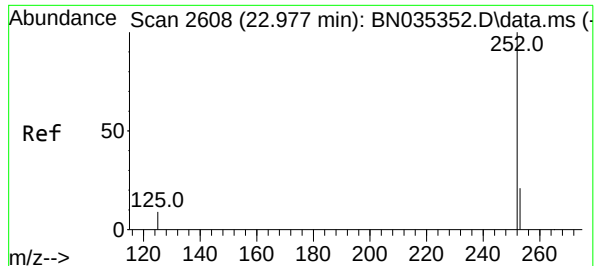
252 100

253 24.4 19.5 29.3

125 12.8 10.2 15.4







#39

Benzo(a)pyrene

Concen: 0.387 ng

RT: 22.977 min Scan# 2608

Delta R.T. 0.000 min

Lab File: BN035352.D

Acq: 27 Nov 2024 16:46

Instrument :

BNA\_N

ClientSampleId :

SSTDICCC0.4

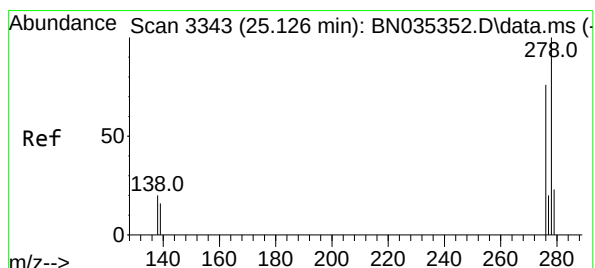
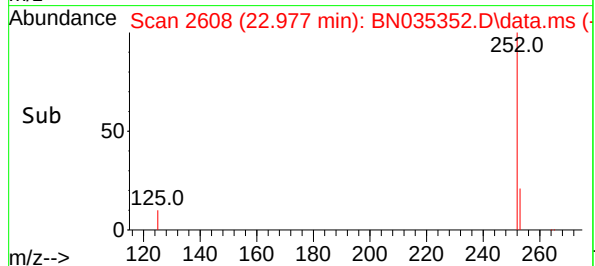
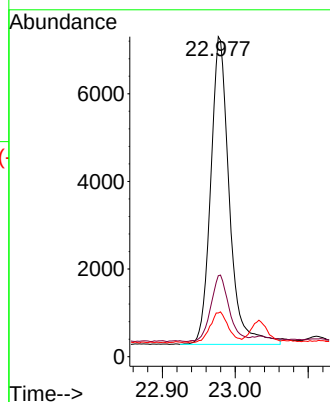
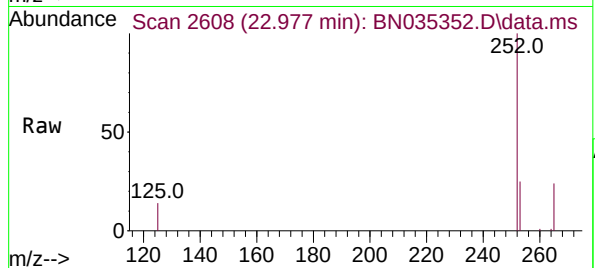
|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 252   | Resp: | 12425 |
| Ion Ratio | Lower | Upper |       |
| 252       | 100   |       |       |
| 253       | 25.3  | 20.2  | 30.4  |
| 125       | 13.6  | 10.9  | 16.3  |

Manual Integrations

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Reviewed By :Yogesh Patel 11/29/2024

Supervised By :mohammad ahmed 11/29/2024



#40

Dibenzo(a,h)anthracene

Concen: 0.378 ng

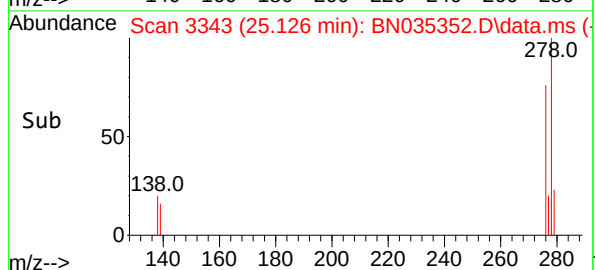
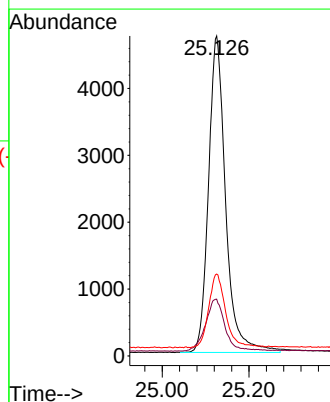
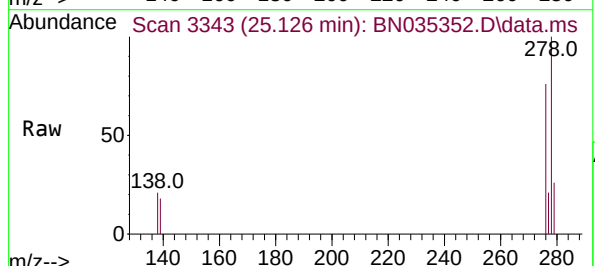
RT: 25.126 min Scan# 3343

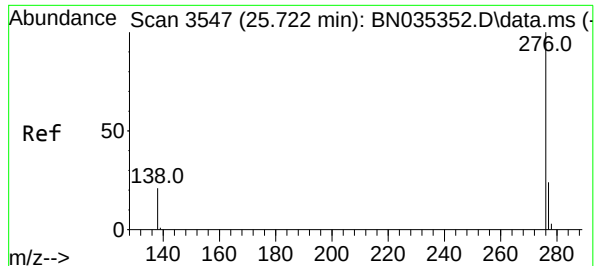
Delta R.T. 0.000 min

Lab File: BN035352.D

Acq: 27 Nov 2024 16:46

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 278   | Resp: | 12948 |
| Ion Ratio | Lower | Upper |       |
| 278       | 100   |       |       |
| 139       | 17.8  | 14.2  | 21.4  |
| 279       | 25.6  | 20.5  | 30.7  |





#41

Benzo(g,h,i)perylene

Concen: 0.371 ng

RT: 25.722 min Scan# 31

Delta R.T. 0.000 min

Lab File: BN035352.D

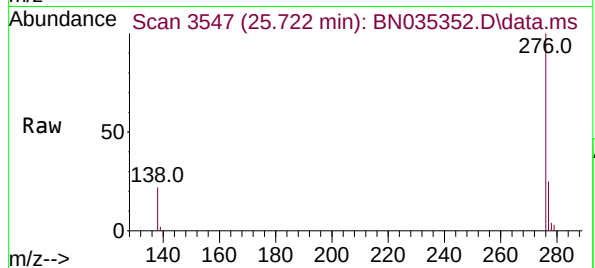
Acq: 27 Nov 2024 16:46

Instrument :

BNA\_N

ClientSampleId :

SSTDICCC0.4



Tgt Ion:276 Resp: 13529

Ion Ratio Lower Upper

276 100

277 24.9 19.9 29.9

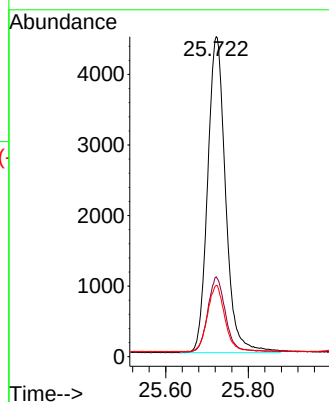
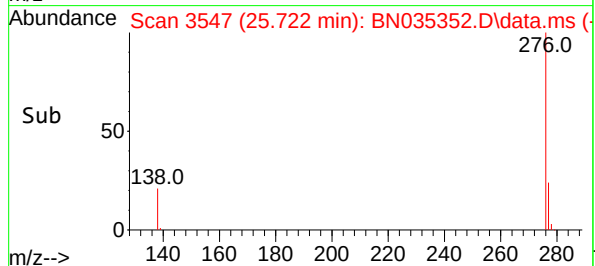
138 22.3 17.8 26.8

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 11/29/2024

Supervised By :mohammad ahmed 11/29/2024



Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN112724\  
 Data File : BN035353.D  
 Acq On : 27 Nov 2024 17:21  
 Operator : RC/JU  
 Sample : SSTDICC0.8  
 Misc :  
 ALS Vial : 5 Sample Multiplier: 1

Instrument :  
 BNA\_N  
 ClientSampleId :  
 SSTDICC0.8

Quant Time: Nov 27 22:53:10 2024  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\8270-SIM-BN112724.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Wed Nov 27 22:48:24 2024  
 Response via : Initial Calibration

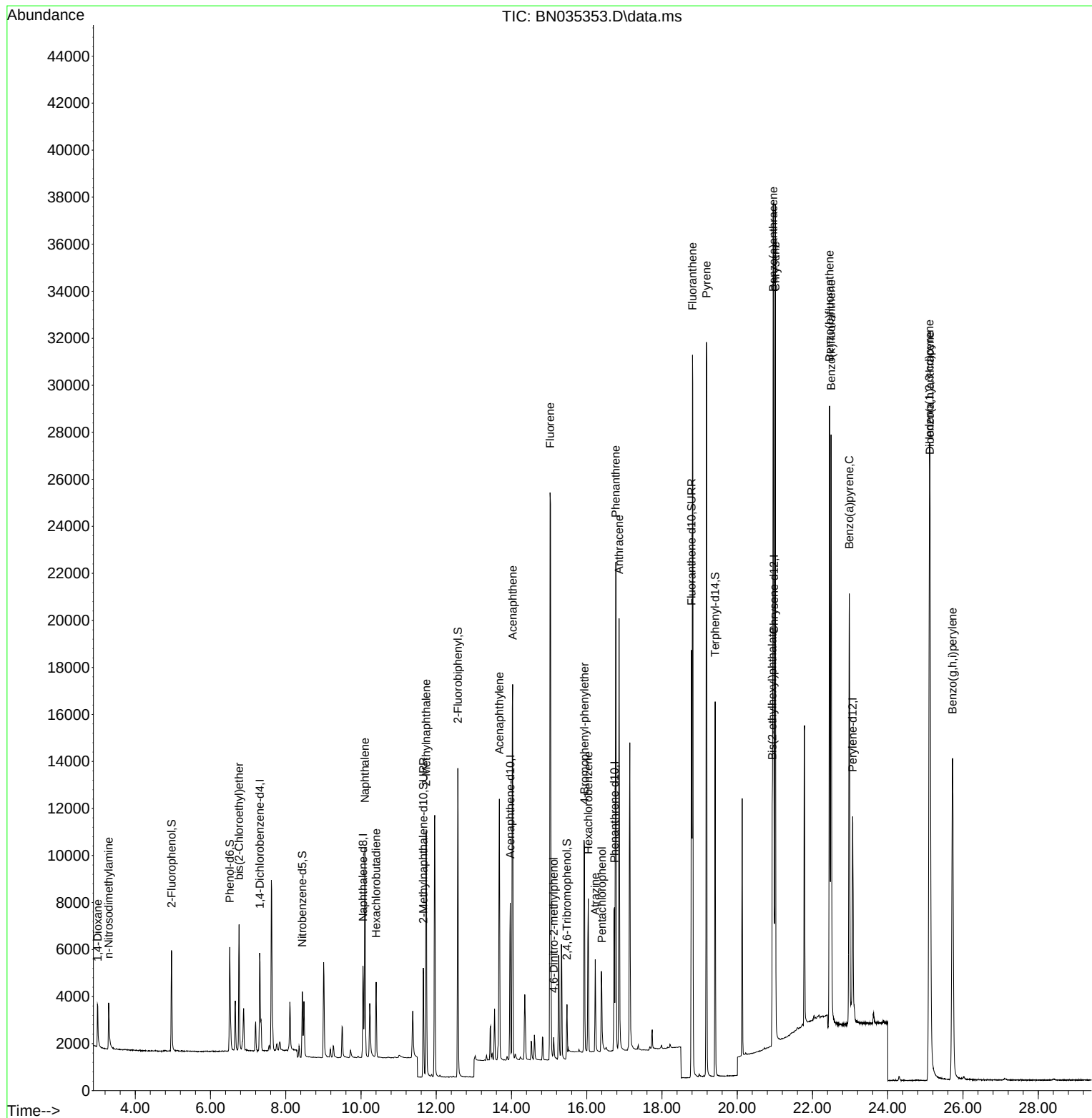
| Compound                      | R.T.   | QIon | Response | Conc  | Units | Dev(Min) |
|-------------------------------|--------|------|----------|-------|-------|----------|
| -----                         |        |      |          |       |       |          |
| Internal Standards            |        |      |          |       |       |          |
| 1) 1,4-Dichlorobenzene-d4     | 7.308  | 152  | 2047     | 0.400 | ng    | 0.00     |
| 7) Naphthalene-d8             | 10.052 | 136  | 5308     | 0.400 | ng    | 0.00     |
| 13) Acenaphthene-d10          | 13.967 | 164  | 3823     | 0.400 | ng    | 0.00     |
| 19) Phenanthrene-d10          | 16.736 | 188  | 9525     | 0.400 | ng    | 0.00     |
| 29) Chrysene-d12              | 20.974 | 240  | 9837     | 0.400 | ng    | 0.00     |
| 35) Perylene-d12              | 23.067 | 264  | 10698    | 0.400 | ng    | 0.00     |
|                               |        |      |          |       |       |          |
| System Monitoring Compounds   |        |      |          |       |       |          |
| 4) 2-Fluorophenol             | 4.968  | 112  | 3924     | 0.755 | ng    | 0.00     |
| 5) Phenol-d6                  | 6.513  | 99   | 4681     | 0.718 | ng    | 0.00     |
| 8) Nitrobenzene-d5            | 8.440  | 82   | 2634     | 0.570 | ng    | 0.00     |
| 11) 2-Methylnaphthalene-d10   | 11.656 | 152  | 6530     | 0.690 | ng    | 0.00     |
| 14) 2,4,6-Tribromophenol      | 15.475 | 330  | 2051     | 0.744 | ng    | 0.00     |
| 15) 2-Fluorobiphenyl          | 12.574 | 172  | 11528    | 0.742 | ng    | 0.00     |
| 27) Fluoranthene-d10          | 18.785 | 212  | 21050    | 0.721 | ng    | 0.00     |
| 31) Terphenyl-d14             | 19.412 | 244  | 15171    | 0.735 | ng    | 0.00     |
|                               |        |      |          |       |       |          |
| Target Compounds              |        |      |          |       |       | Qvalue   |
| 2) 1,4-Dioxane                | 3.003  | 88   | 1554     | 0.836 | ng    | 99       |
| 3) n-Nitrosodimethylamine     | 3.292  | 42   | 1291     | 0.745 | ng    | # 98     |
| 6) bis(2-Chloroethyl)ether    | 6.759  | 93   | 4066     | 0.831 | ng    | 100      |
| 9) Naphthalene                | 10.105 | 128  | 10954    | 0.790 | ng    | 99       |
| 10) Hexachlorobutadiene       | 10.404 | 225  | 2559     | 0.630 | ng    | # 100    |
| 12) 2-Methylnaphthalene       | 11.732 | 142  | 7925     | 0.775 | ng    | 99       |
| 16) Acenaphthylene            | 13.679 | 152  | 12523    | 0.766 | ng    | 100      |
| 17) Acenaphthene              | 14.031 | 154  | 8470     | 0.791 | ng    | 99       |
| 18) Fluorene                  | 15.026 | 166  | 12232    | 0.777 | ng    | 99       |
| 20) 4,6-Dinitro-2-methylph... | 15.122 | 198  | 784      | 0.395 | ng    | # 88     |
| 21) 4-Bromophenyl-phenylether | 15.941 | 248  | 4440     | 0.732 | ng    | 98       |
| 22) Hexachlorobenzene         | 16.041 | 284  | 5253     | 0.834 | ng    | 99       |
| 23) Atrazine                  | 16.227 | 200  | 2978     | 0.547 | ng    | 99       |
| 24) Pentachlorophenol         | 16.400 | 266  | 1968     | 0.669 | ng    | 87       |
| 25) Phenanthrene              | 16.773 | 178  | 20803    | 0.830 | ng    | 100      |
| 26) Anthracene                | 16.860 | 178  | 18528    | 0.805 | ng    | 99       |
| 28) Fluoranthene              | 18.813 | 202  | 27743    | 0.805 | ng    | 100      |
| 30) Pyrene                    | 19.180 | 202  | 28384    | 0.866 | ng    | 100      |
| 32) Benzo(a)anthracene        | 20.956 | 228  | 27048    | 0.790 | ng    | 99       |
| 33) Chrysene                  | 21.010 | 228  | 27838    | 0.820 | ng    | 99       |
| 34) Bis(2-ethylhexyl)phtha... | 20.929 | 149  | 9941     | 0.553 | ng    | 100      |
| 36) Indeno(1,2,3-cd)pyrene    | 25.108 | 276  | 33248    | 0.779 | ng    | 100      |
| 37) Benzo(b)fluoranthene      | 22.453 | 252  | 29491    | 0.819 | ng    | 96       |
| 38) Benzo(k)fluoranthene      | 22.494 | 252  | 30369    | 0.843 | ng    | 96       |
| 39) Benzo(a)pyrene            | 22.977 | 252  | 25053    | 0.791 | ng    | 96       |
| 40) Dibenzo(a,h)anthracene    | 25.123 | 278  | 26222    | 0.775 | ng    | 98       |
| 41) Benzo(g,h,i)perylene      | 25.722 | 276  | 27143    | 0.755 | ng    | 98       |
| -----                         |        |      |          |       |       |          |

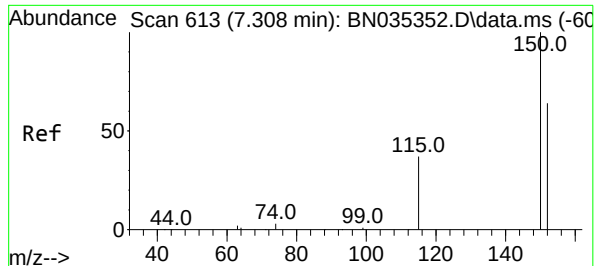
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN112724\  
Data File : BN035353.D  
Acq On : 27 Nov 2024 17:21  
Operator : RC/JU  
Sample : SSTDICC0.8  
Misc :  
ALS Vial : 5 Sample Multiplier: 1

Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC0.8

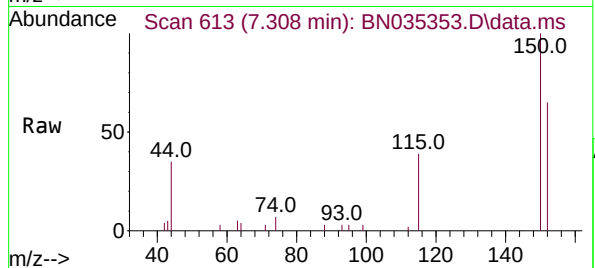
Quant Time: Nov 27 22:53:10 2024  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\8270-SIM-BN112724.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Wed Nov 27 22:48:24 2024  
Response via : Initial Calibration



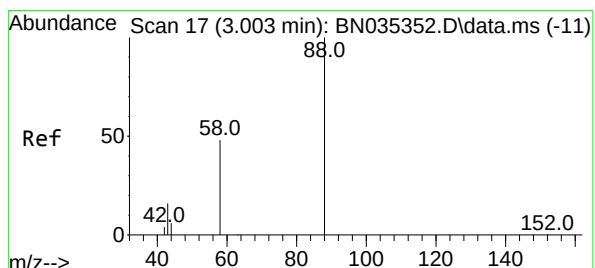
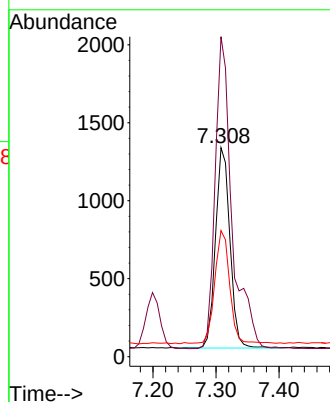
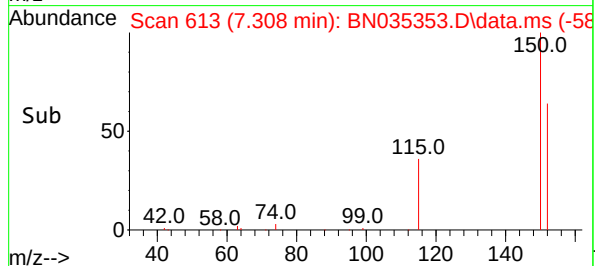


#1  
1,4-Dichlorobenzene-d4  
Concen: 0.400 ng  
RT: 7.308 min Scan# 61  
Delta R.T. -0.000 min  
Lab File: BN035353.D  
Acq: 27 Nov 2024 17:21

Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC0.8

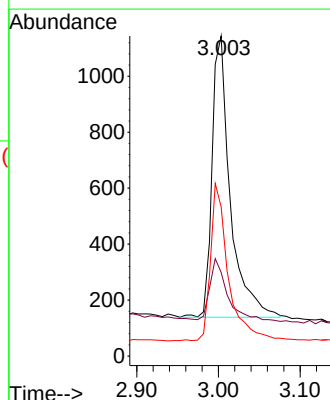
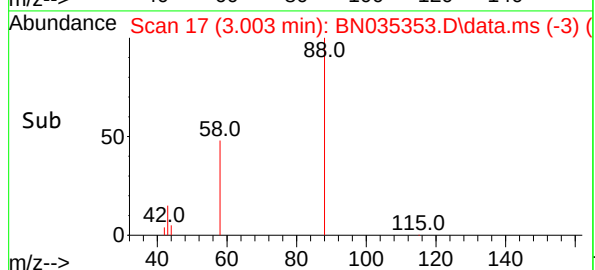
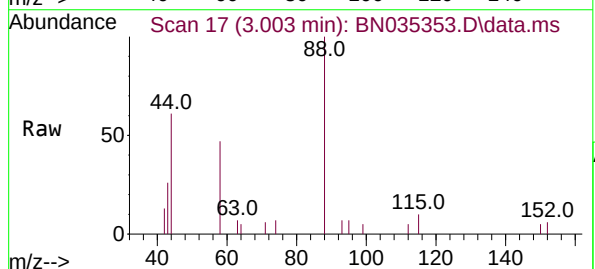


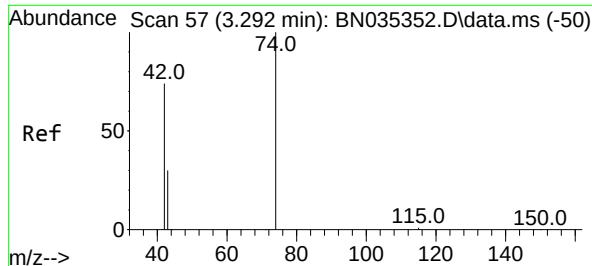
Tgt Ion: 152 Resp: 2047  
Ion Ratio Lower Upper  
152 100  
150 153.1 124.0 186.0  
115 60.3 49.6 74.4



#2  
1,4-Dioxane  
Concen: 0.836 ng  
RT: 3.003 min Scan# 17  
Delta R.T. 0.000 min  
Lab File: BN035353.D  
Acq: 27 Nov 2024 17:21

Tgt Ion: 88 Resp: 1554  
Ion Ratio Lower Upper  
88 100  
43 22.1 17.2 25.8  
58 54.8 44.5 66.7

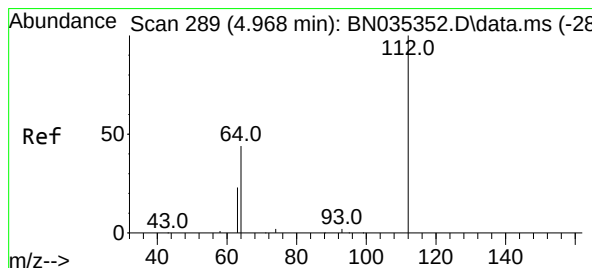
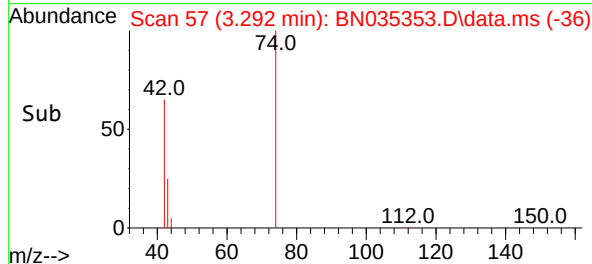
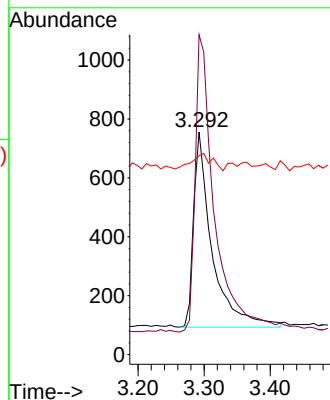
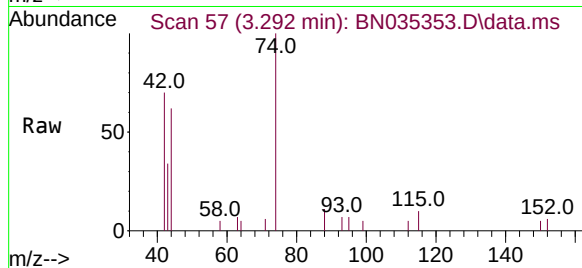




#3  
n-Nitrosodimethylamine  
Concen: 0.745 ng  
RT: 3.292 min Scan# 57  
Delta R.T. 0.000 min  
Lab File: BN035353.D  
Acq: 27 Nov 2024 17:21

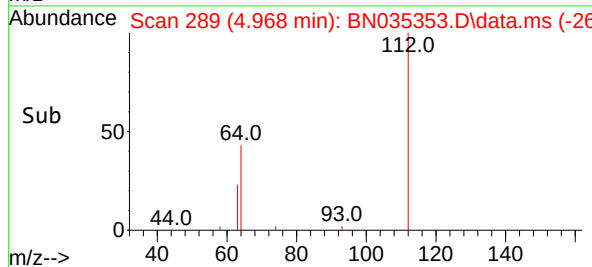
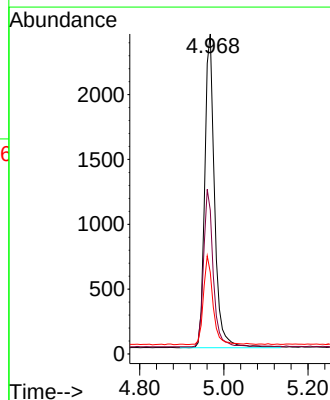
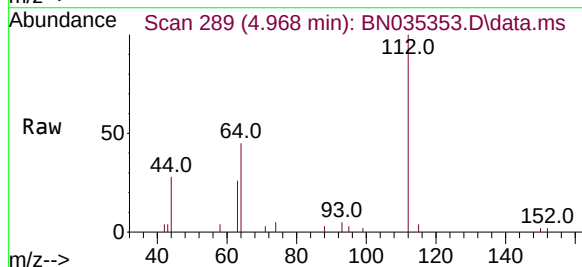
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC0.8

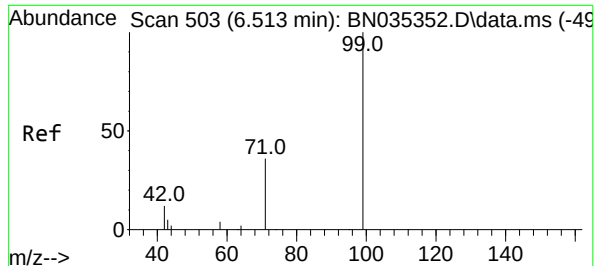
Tgt Ion: 42 Resp: 1291  
Ion Ratio Lower Upper  
42 100  
74 158.7 124.9 187.3  
44 9.8 2.2 3.4#



#4  
2-Fluorophenol  
Concen: 0.755 ng  
RT: 4.968 min Scan# 289  
Delta R.T. 0.000 min  
Lab File: BN035353.D  
Acq: 27 Nov 2024 17:21

Tgt Ion: 112 Resp: 3924  
Ion Ratio Lower Upper  
112 100  
64 49.0 39.8 59.8  
63 27.0 21.0 31.6

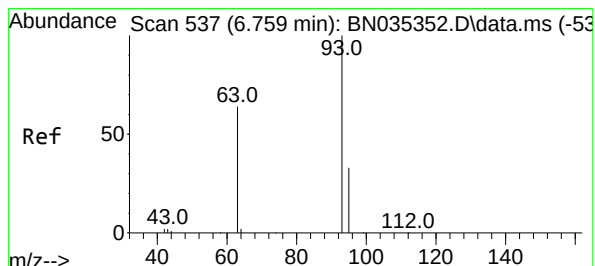
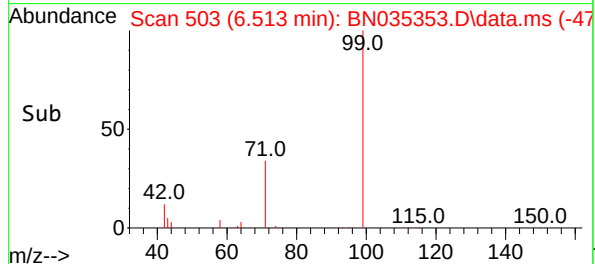
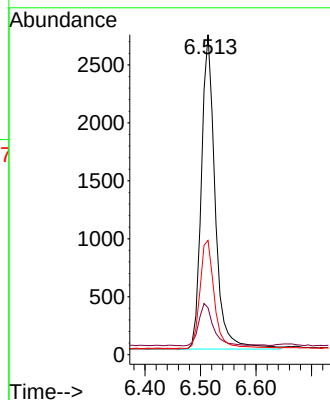
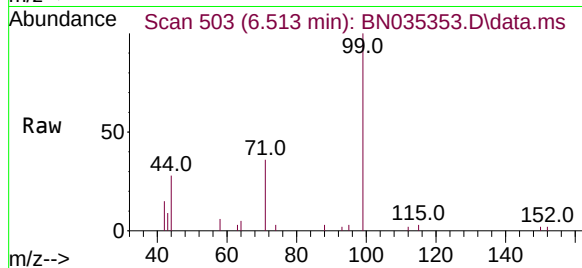




#5  
Phenol-d6  
Concen: 0.718 ng  
RT: 6.513 min Scan# 503  
Delta R.T. 0.000 min  
Lab File: BN035353.D  
Acq: 27 Nov 2024 17:21

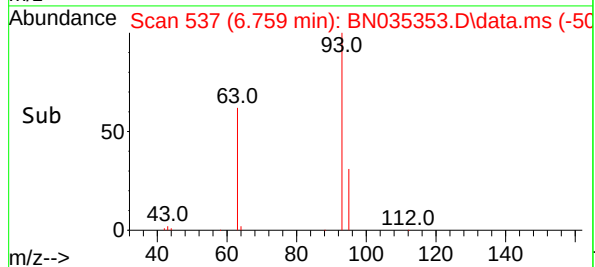
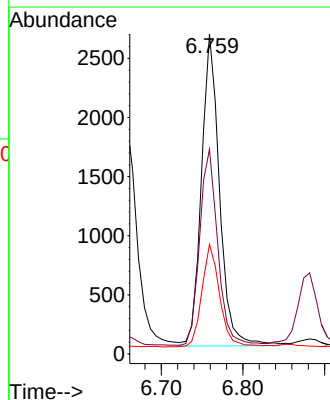
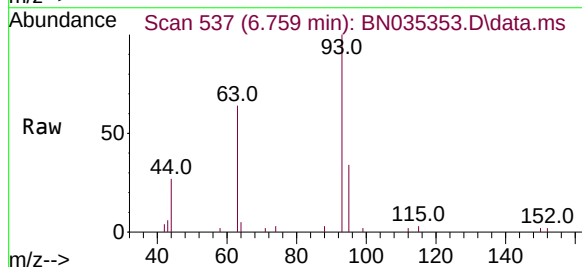
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC0.8

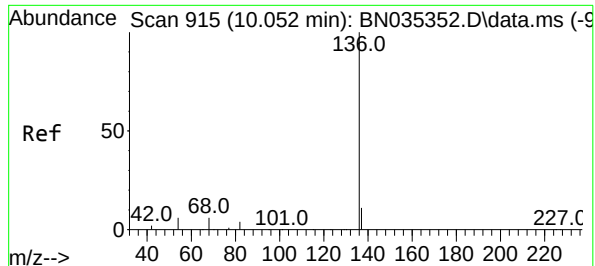
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 99      | 100   |       |       |
| 42      | 14.3  | 11.4  | 17.2  |
| 71      | 36.1  | 29.3  | 43.9  |



#6  
bis(2-Chloroethyl)ether  
Concen: 0.831 ng  
RT: 6.759 min Scan# 537  
Delta R.T. 0.000 min  
Lab File: BN035353.D  
Acq: 27 Nov 2024 17:21

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 93      | 100   |       |       |
| 63      | 62.8  | 50.4  | 75.6  |
| 95      | 32.4  | 25.7  | 38.5  |

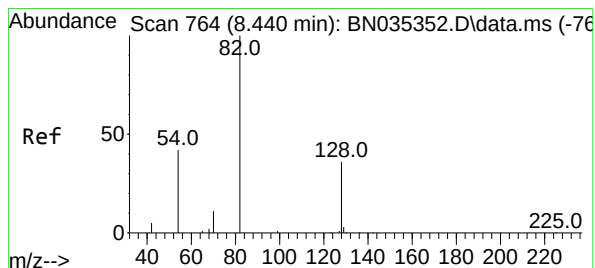
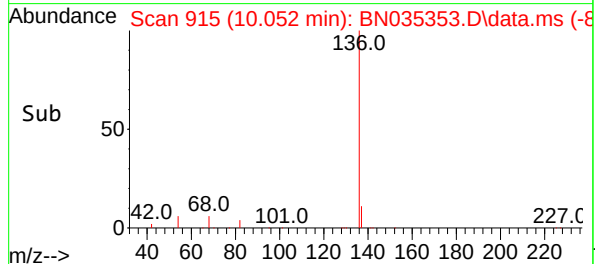
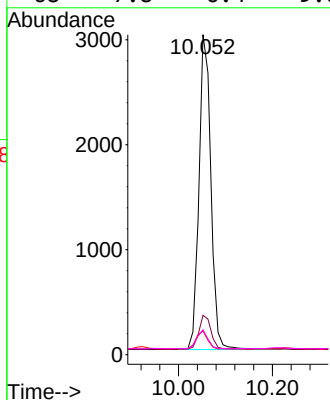
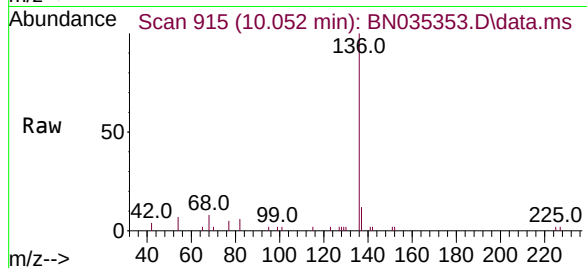




#7  
Naphthalene-d8  
Concen: 0.400 ng  
RT: 10.052 min Scan# 915  
Delta R.T. 0.000 min  
Lab File: BN035353.D  
Acq: 27 Nov 2024 17:21

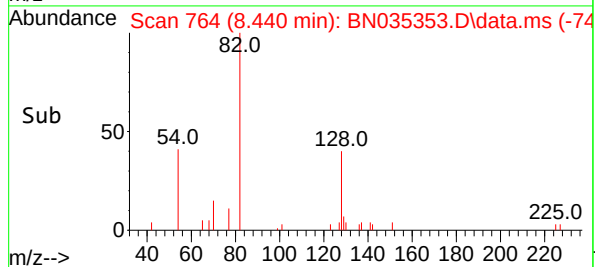
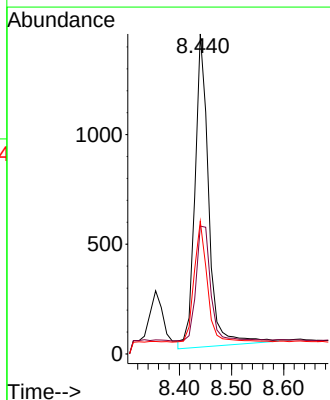
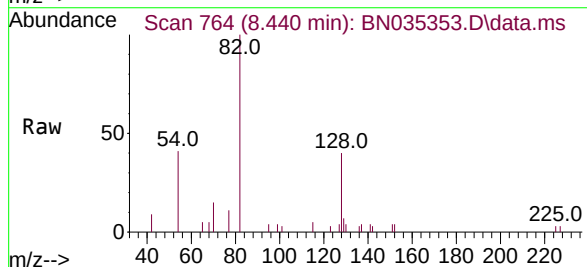
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC0.8

| Tgt Ion | 136  | 137  | 54  | 68  |
|---------|------|------|-----|-----|
| Resp:   | 5308 | 12.3 | 7.4 | 7.8 |
| Lower   |      | 10.2 | 6.1 | 6.4 |
| Upper   |      | 15.2 | 9.1 | 9.6 |

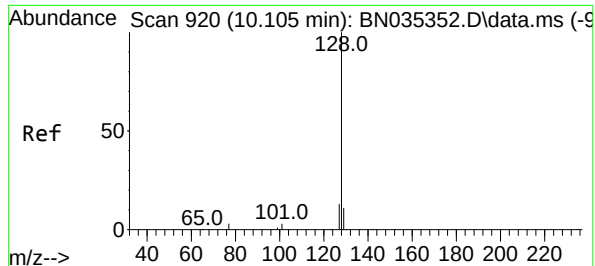


#8  
Nitrobenzene-d5  
Concen: 0.570 ng  
RT: 8.440 min Scan# 764  
Delta R.T. 0.000 min  
Lab File: BN035353.D  
Acq: 27 Nov 2024 17:21

| Tgt Ion | 82   | 128  | 54   |
|---------|------|------|------|
| Resp:   | 2634 | 40.0 | 41.5 |
| Lower   |      | 33.4 | 36.7 |
| Upper   |      | 50.0 | 55.1 |







#9  
Naphthalene

Concen: 0.790 ng

RT: 10.105 min Scan# 91

Delta R.T. 0.000 min

Lab File: BN035353.D

Acq: 27 Nov 2024 17:21

Instrument :

BNA\_N

ClientSampleId :

SSTDICC0.8

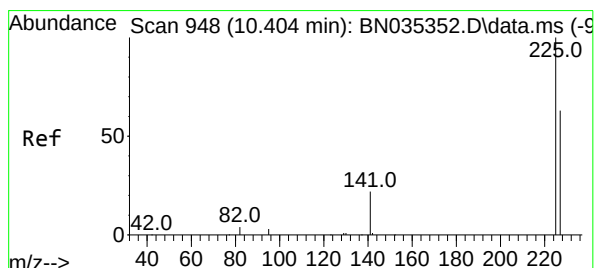
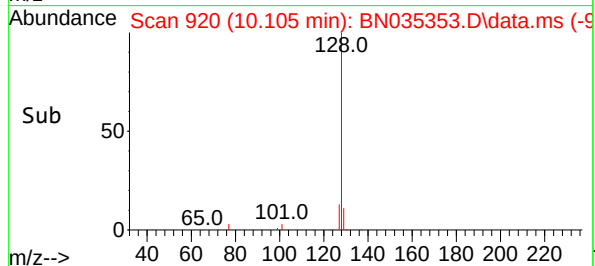
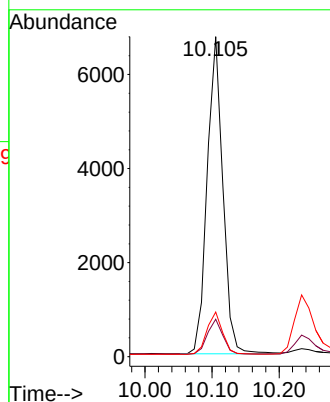
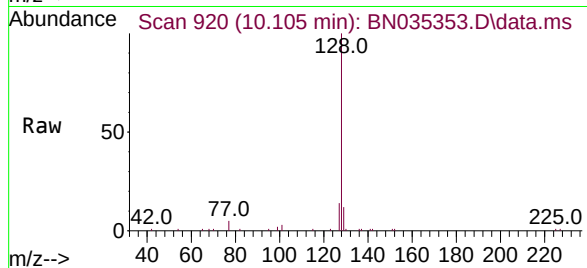
Tgt Ion:128 Resp: 10954

Ion Ratio Lower Upper

128 100

129 11.7 9.8 14.6

127 13.9 11.4 17.2



#10

Hexachlorobutadiene

Concen: 0.630 ng

RT: 10.404 min Scan# 948

Delta R.T. 0.000 min

Lab File: BN035353.D

Acq: 27 Nov 2024 17:21

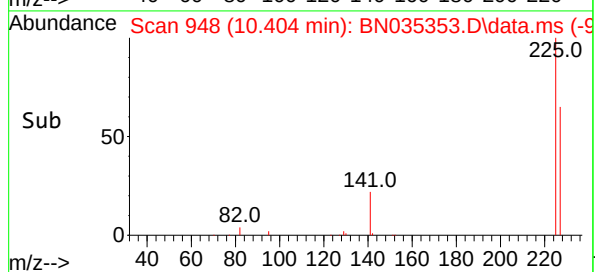
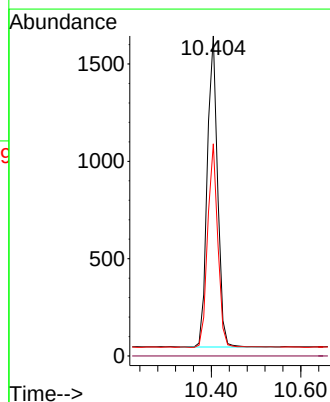
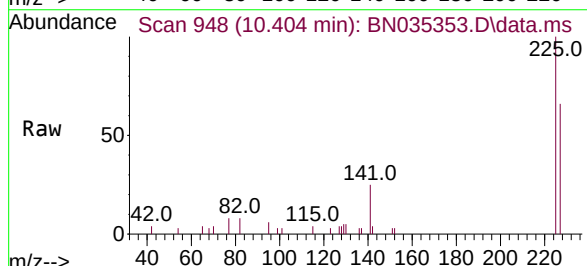
Tgt Ion:225 Resp: 2559

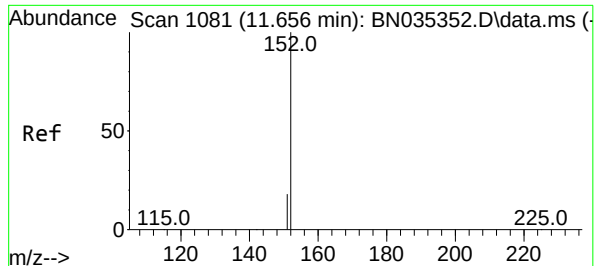
Ion Ratio Lower Upper

225 100

223 0.0 0.0 0.0

227 64.1 51.3 76.9

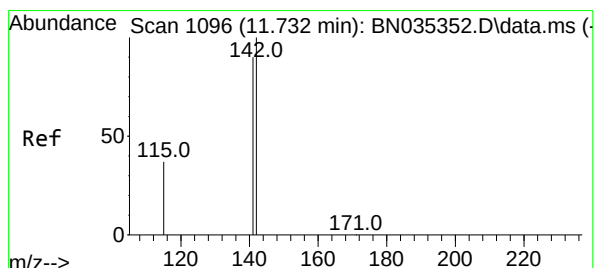
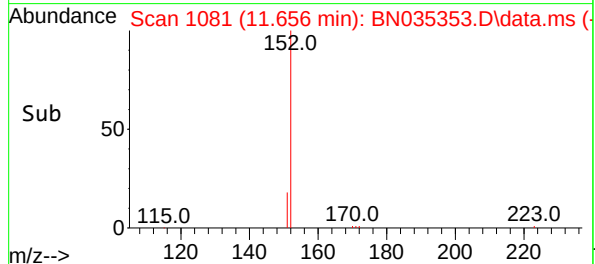
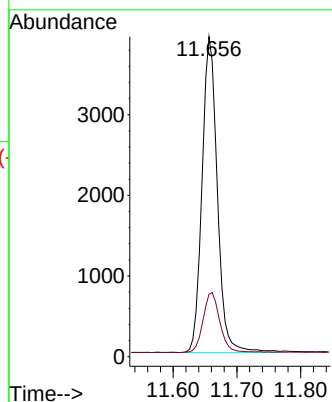
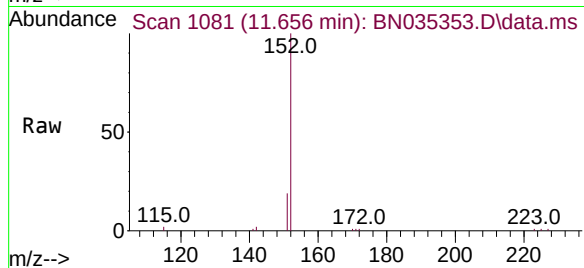




#11  
2-Methylnaphthalene-d10  
Concen: 0.690 ng  
RT: 11.656 min Scan# 1081  
Delta R.T. 0.000 min  
Lab File: BN035353.D  
Acq: 27 Nov 2024 17:21

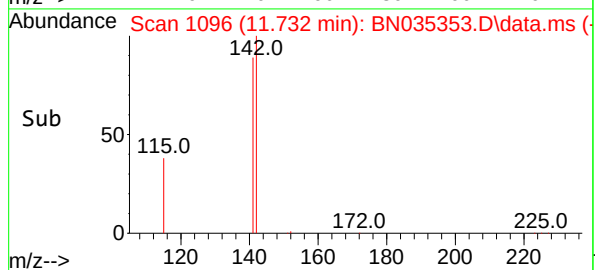
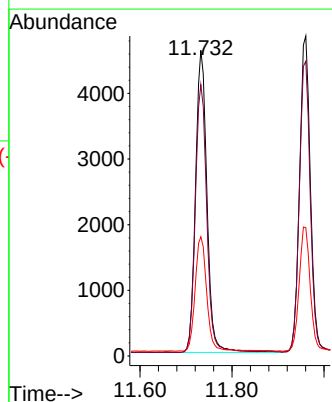
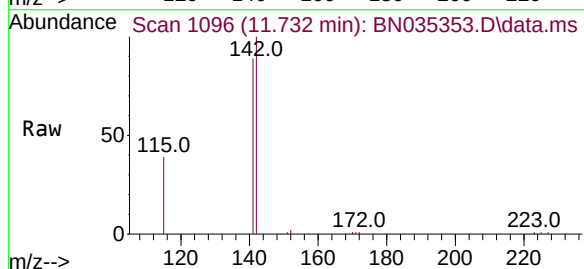
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC0.8

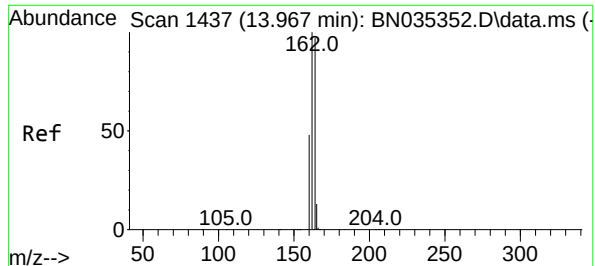
Tgt Ion:152 Resp: 6530  
Ion Ratio Lower Upper  
152 100  
151 20.8 16.6 25.0



#12  
2-Methylnaphthalene  
Concen: 0.775 ng  
RT: 11.732 min Scan# 1096  
Delta R.T. 0.000 min  
Lab File: BN035353.D  
Acq: 27 Nov 2024 17:21

Tgt Ion:142 Resp: 7925  
Ion Ratio Lower Upper  
142 100  
141 88.8 72.2 108.4  
115 39.0 31.4 47.0

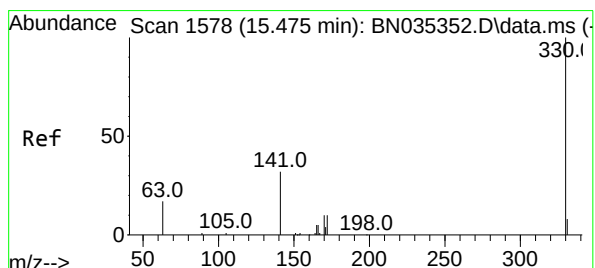
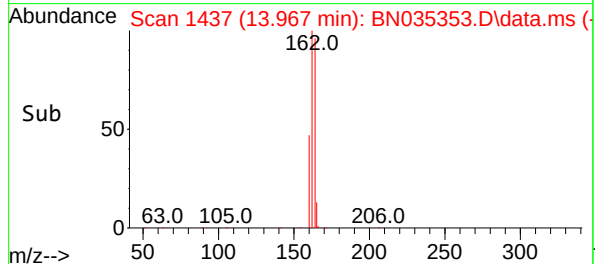
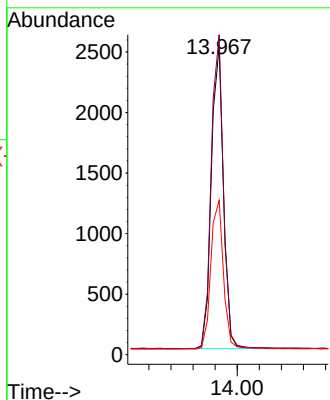
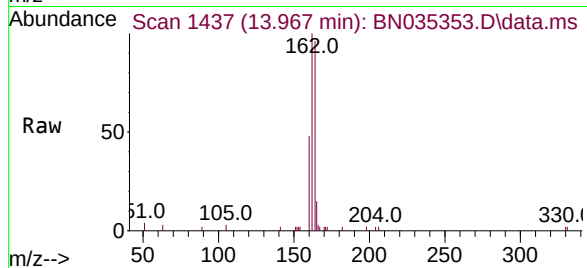




#13  
Acenaphthene-d10  
Concen: 0.400 ng  
RT: 13.967 min Scan# 1437  
Delta R.T. 0.000 min  
Lab File: BN035353.D  
Acq: 27 Nov 2024 17:21

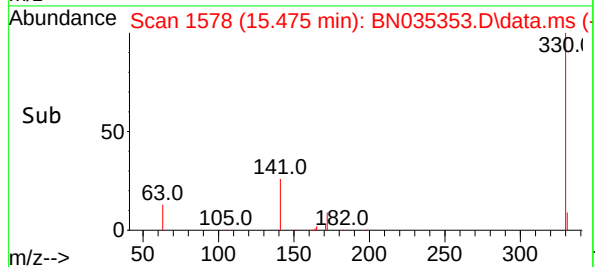
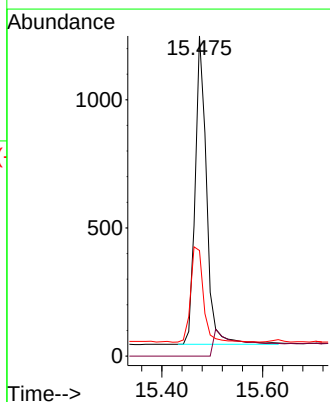
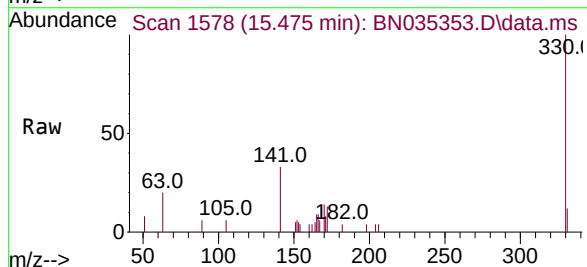
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC0.8

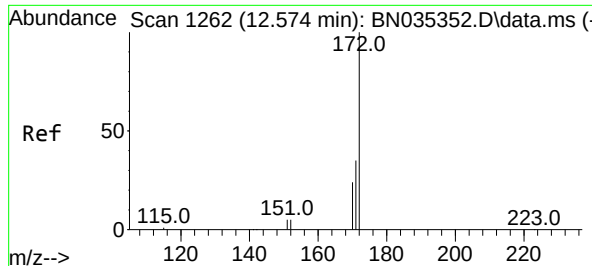
Tgt Ion:164 Resp: 3823  
Ion Ratio Lower Upper  
164 100  
162 103.9 82.2 123.2  
160 50.1 40.1 60.1



#14  
2,4,6-Tribromophenol  
Concen: 0.744 ng  
RT: 15.475 min Scan# 1578  
Delta R.T. 0.000 min  
Lab File: BN035353.D  
Acq: 27 Nov 2024 17:21

Tgt Ion:330 Resp: 2051  
Ion Ratio Lower Upper  
330 100  
332 0.0 0.0 0.0  
141 34.3 26.6 40.0





#15

2-Fluorobiphenyl

Concen: 0.742 ng

RT: 12.574 min Scan# 11

Delta R.T. 0.000 min

Lab File: BN035353.D

Acq: 27 Nov 2024 17:21

Instrument :

BNA\_N

ClientSampleId :

SSTDICC0.8

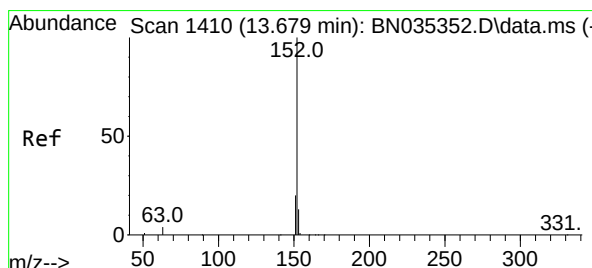
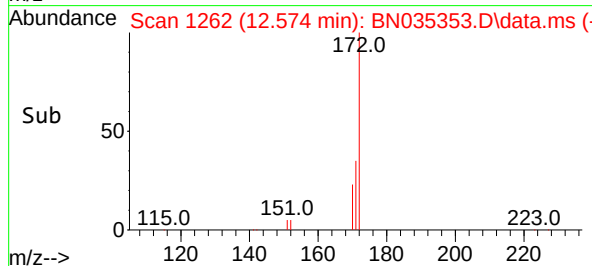
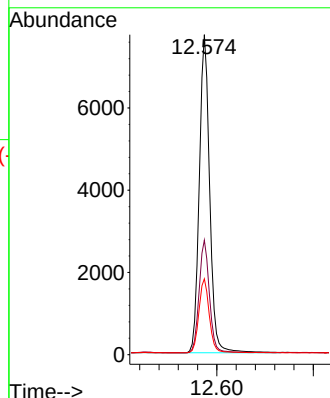
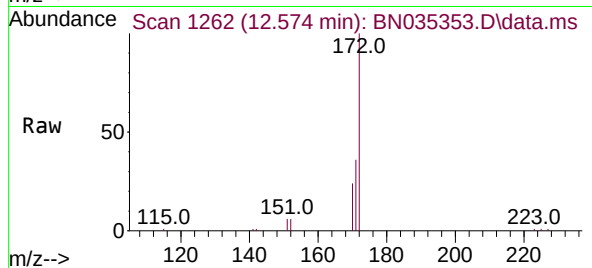
Tgt Ion:172 Resp: 11528

Ion Ratio Lower Upper

172 100

171 35.8 29.0 43.4

170 23.7 19.8 29.8



#16

Acenaphthylene

Concen: 0.766 ng

RT: 13.679 min Scan# 1410

Delta R.T. 0.000 min

Lab File: BN035353.D

Acq: 27 Nov 2024 17:21

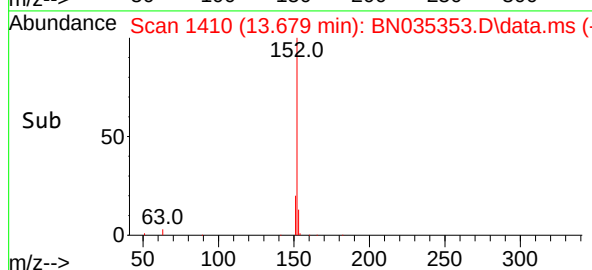
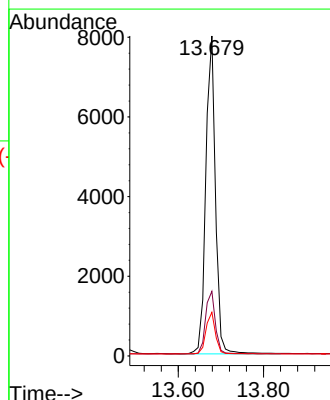
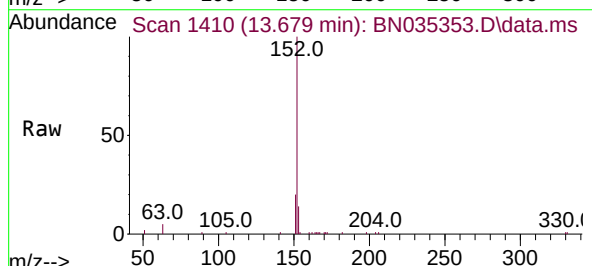
Tgt Ion:152 Resp: 12523

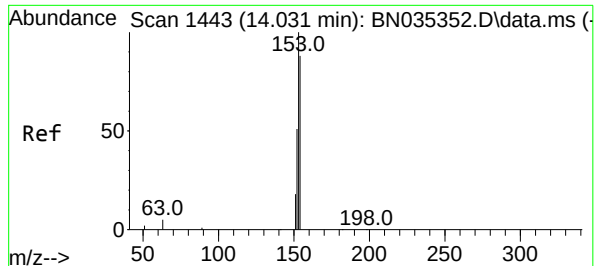
Ion Ratio Lower Upper

152 100

151 20.0 16.2 24.2

153 12.9 10.4 15.6

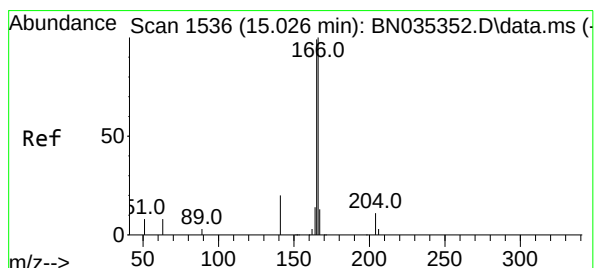
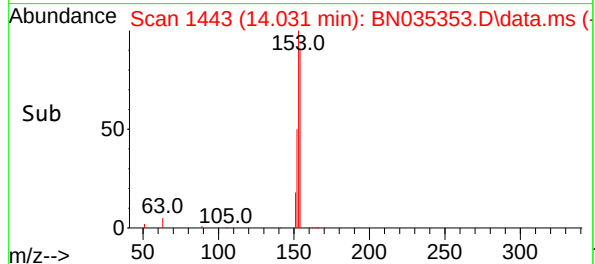
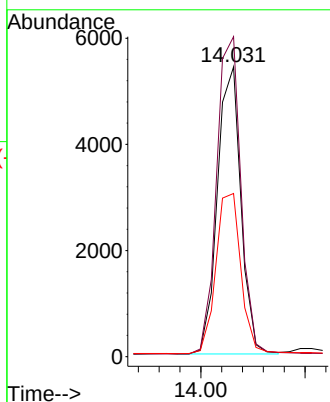
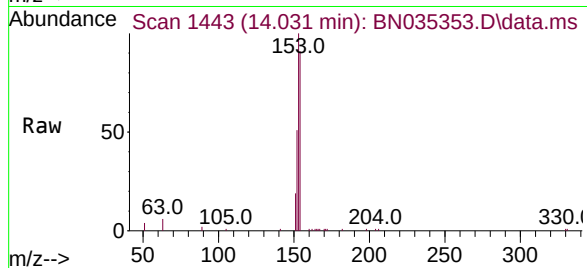




#17  
Acenaphthene  
Concen: 0.791 ng  
RT: 14.031 min Scan# 1443  
Delta R.T. 0.000 min  
Lab File: BN035353.D  
Acq: 27 Nov 2024 17:21

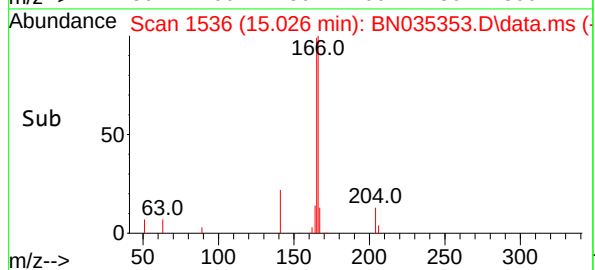
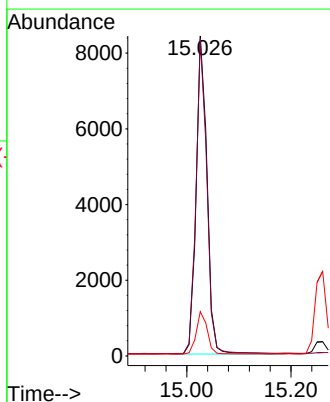
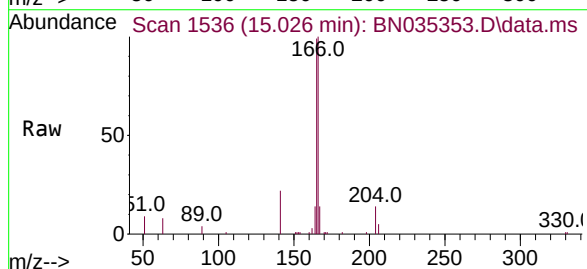
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC0.8

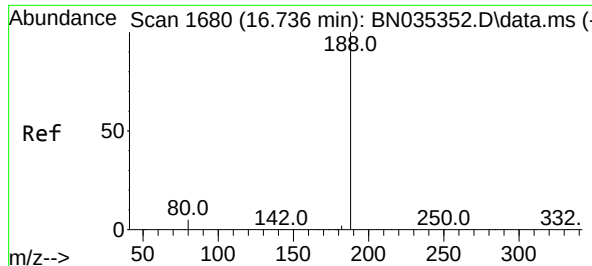
Tgt Ion:154 Resp: 8470  
Ion Ratio Lower Upper  
154 100  
153 114.8 92.6 139.0  
152 60.2 49.0 73.6



#18  
Fluorene  
Concen: 0.777 ng  
RT: 15.026 min Scan# 1536  
Delta R.T. 0.000 min  
Lab File: BN035353.D  
Acq: 27 Nov 2024 17:21

Tgt Ion:166 Resp: 12232  
Ion Ratio Lower Upper  
166 100  
165 98.5 79.7 119.5  
167 13.5 10.8 16.2





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 16.736 min Scan# 1

Delta R.T. 0.000 min

Lab File: BN035353.D

Acq: 27 Nov 2024 17:21

Instrument :

BNA\_N

ClientSampleId :

SSTDICC0.8

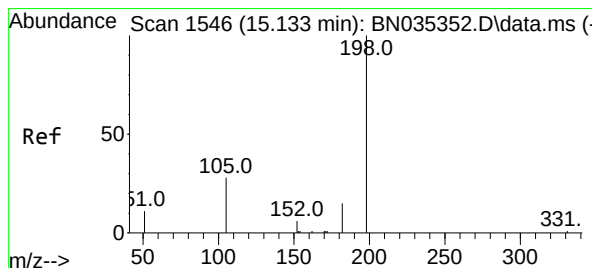
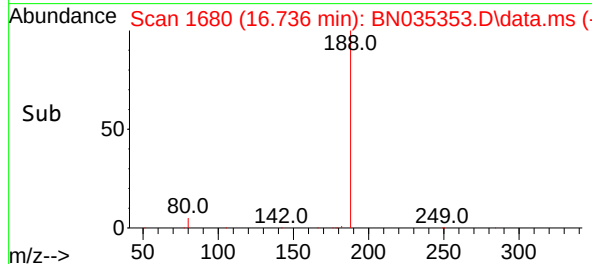
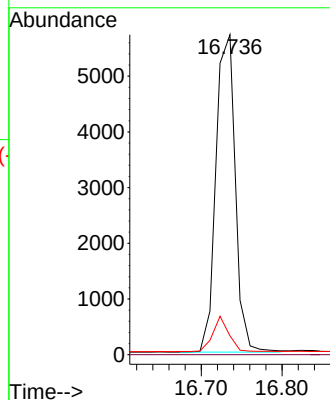
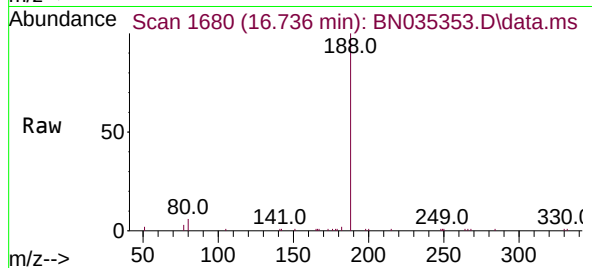
Tgt Ion:188 Resp: 9525

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 5.9 4.6 6.8



#20

4,6-Dinitro-2-methylphenol

Concen: 0.395 ng

RT: 15.122 min Scan# 1545

Delta R.T. -0.011 min

Lab File: BN035353.D

Acq: 27 Nov 2024 17:21

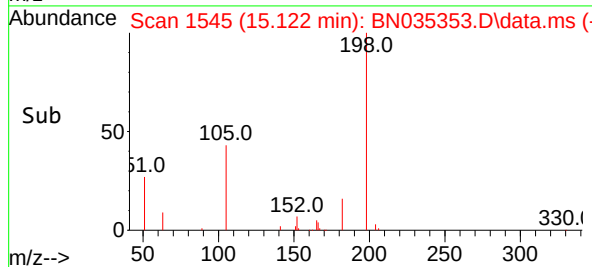
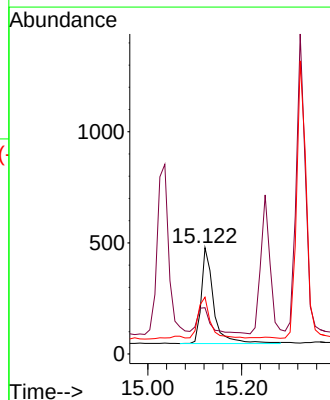
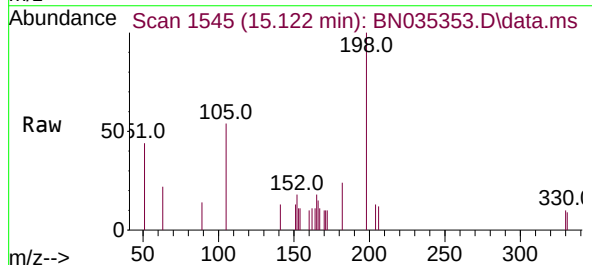
Tgt Ion:198 Resp: 784

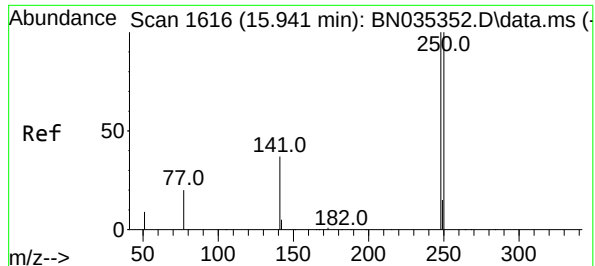
Ion Ratio Lower Upper

198 100

51 43.5 46.5 69.7#

105 53.6 45.3 67.9

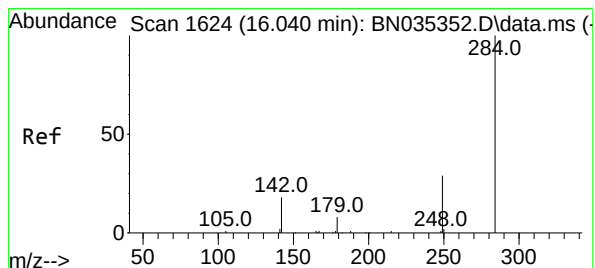
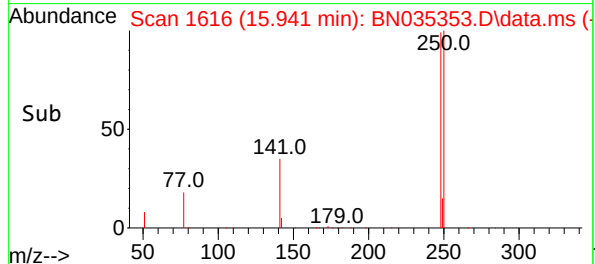
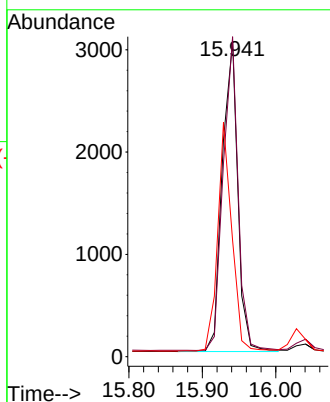
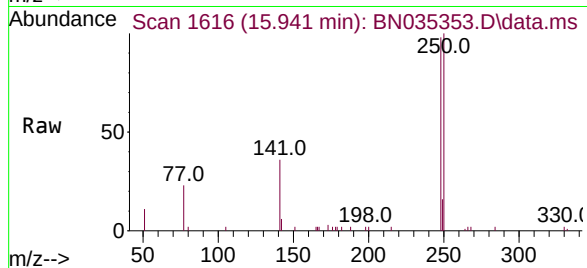




#21  
4-Bromophenyl-phenylether  
Concen: 0.732 ng  
RT: 15.941 min Scan# 1616  
Delta R.T. 0.000 min  
Lab File: BN035353.D  
Acq: 27 Nov 2024 17:21

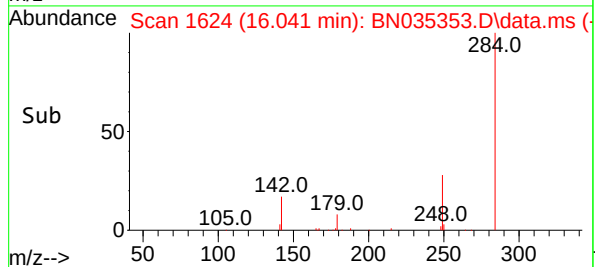
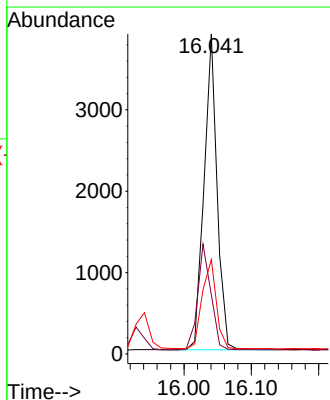
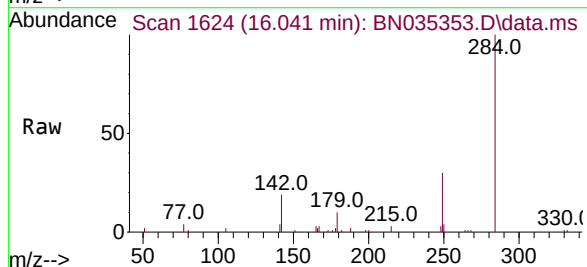
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC0.8

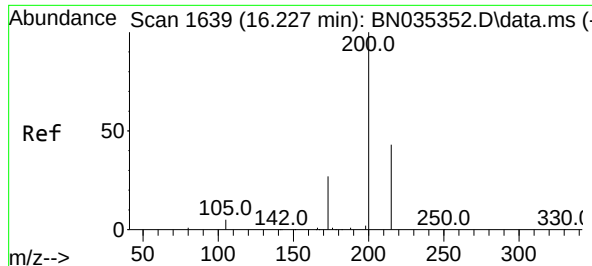
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 248     | 100   |       |       |
| 250     | 101.5 | 80.6  | 120.8 |
| 141     | 36.9  | 31.5  | 47.3  |



#22  
Hexachlorobenzene  
Concen: 0.834 ng  
RT: 16.041 min Scan# 1624  
Delta R.T. 0.000 min  
Lab File: BN035353.D  
Acq: 27 Nov 2024 17:21

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 284     | 100   |       |       |
| 142     | 34.0  | 26.7  | 40.1  |
| 249     | 30.3  | 24.6  | 36.8  |

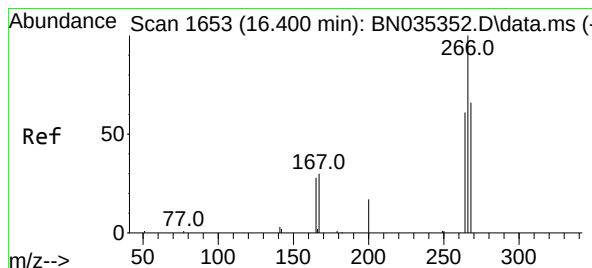
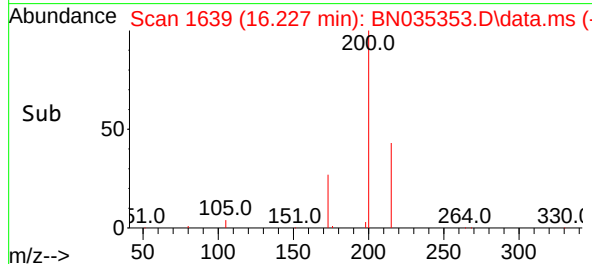
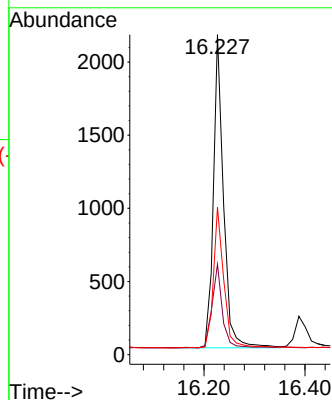
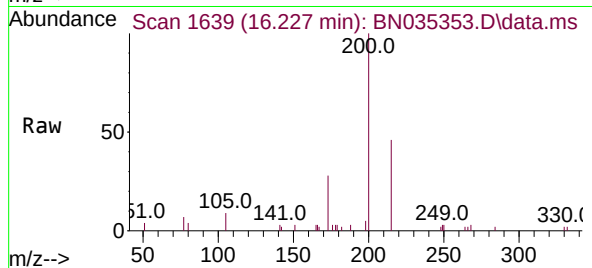




#23  
Atrazine  
Concen: 0.547 ng  
RT: 16.227 min Scan# 1639  
Delta R.T. 0.000 min  
Lab File: BN035353.D  
Acq: 27 Nov 2024 17:21

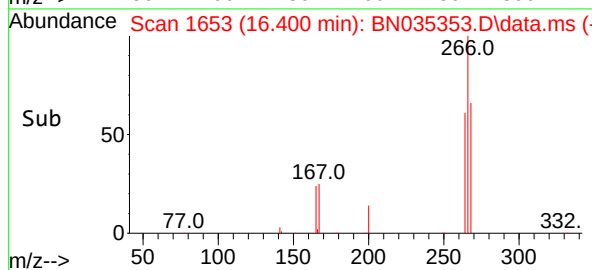
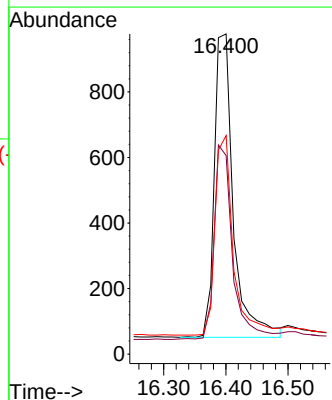
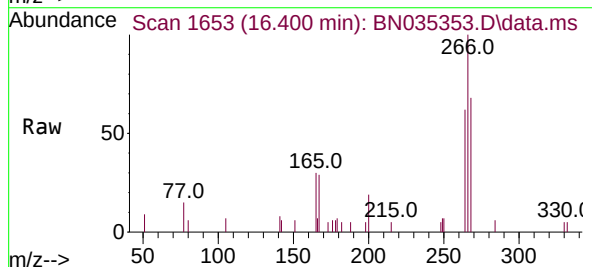
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC0.8

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 200     | 100   |       |       |
| 173     | 28.3  | 24.1  | 36.1  |
| 215     | 46.1  | 36.9  | 55.3  |

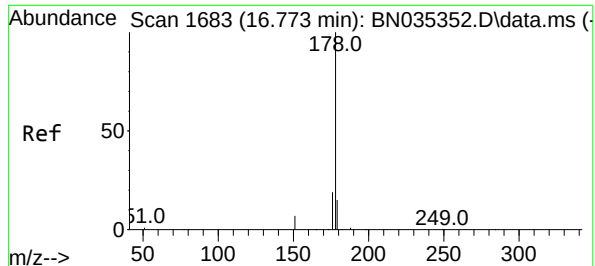


#24  
Pentachlorophenol  
Concen: 0.669 ng  
RT: 16.400 min Scan# 1653  
Delta R.T. 0.000 min  
Lab File: BN035353.D  
Acq: 27 Nov 2024 17:21

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 266     | 100   |       |       |
| 264     | 61.9  | 42.3  | 63.5  |
| 268     | 63.7  | 43.3  | 64.9  |



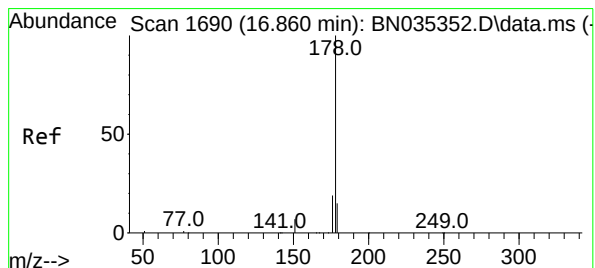
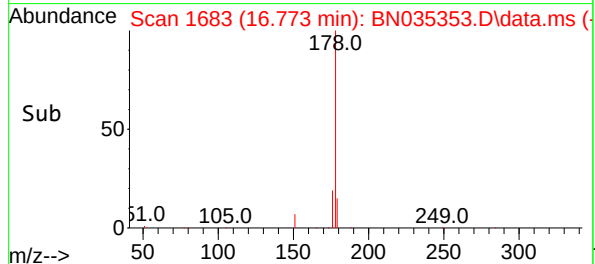
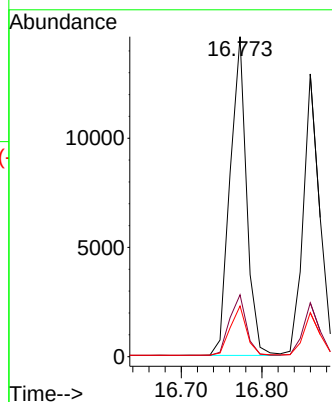
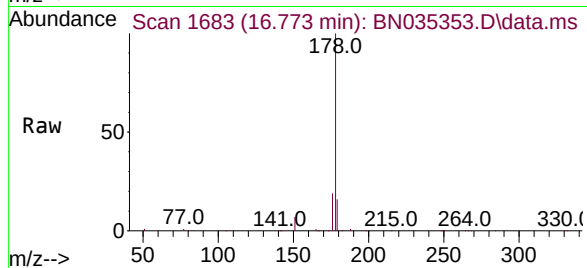




#25  
Phenanthrene  
Concen: 0.830 ng  
RT: 16.773 min Scan# 1683  
Delta R.T. 0.000 min  
Lab File: BN035353.D  
Acq: 27 Nov 2024 17:21

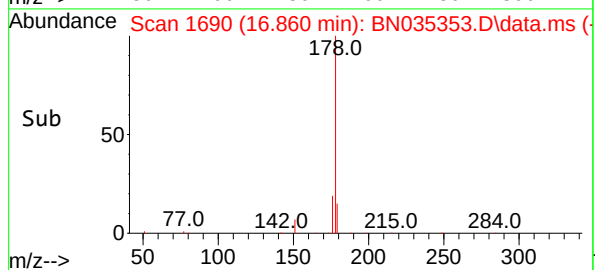
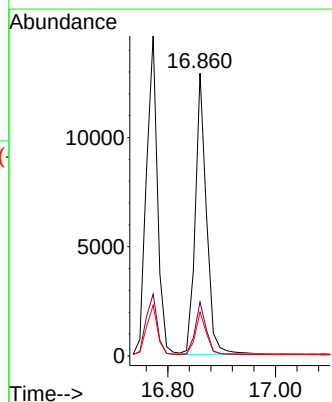
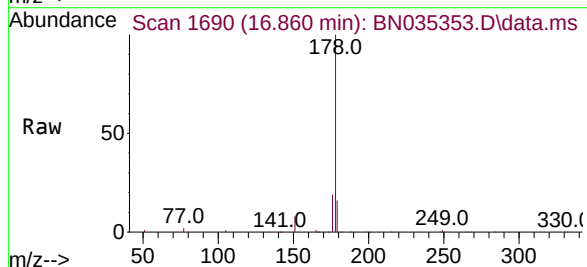
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC0.8

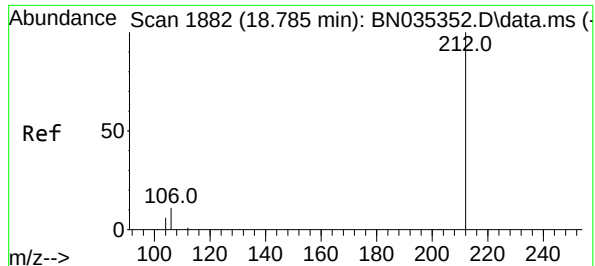
Tgt Ion:178 Resp: 20803  
Ion Ratio Lower Upper  
178 100  
176 19.4 15.4 23.2  
179 15.4 12.3 18.5



#26  
Anthracene  
Concen: 0.805 ng  
RT: 16.860 min Scan# 1690  
Delta R.T. 0.000 min  
Lab File: BN035353.D  
Acq: 27 Nov 2024 17:21

Tgt Ion:178 Resp: 18528  
Ion Ratio Lower Upper  
178 100  
176 18.6 15.0 22.6  
179 15.2 12.6 18.8





#27

Fluoranthene-d10

Concen: 0.721 ng

RT: 18.785 min Scan# 1882

Delta R.T. 0.000 min

Lab File: BN035353.D

Acq: 27 Nov 2024 17:21

Instrument :

BNA\_N

ClientSampleId :

SSTDICC0.8

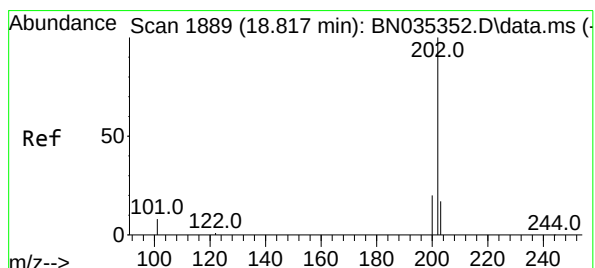
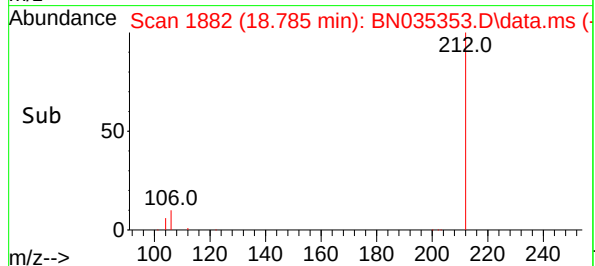
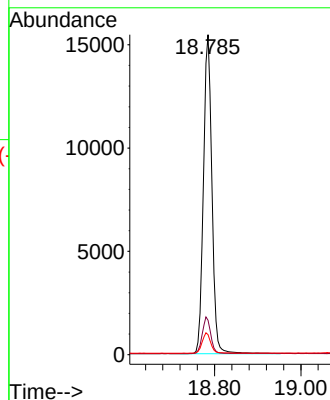
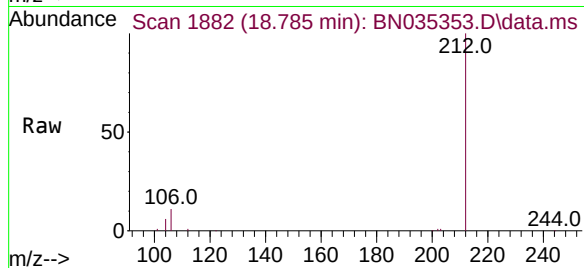
Tgt Ion:212 Resp: 21050

Ion Ratio Lower Upper

212 100

106 11.3 9.2 13.8

104 6.4 5.3 7.9



#28

Fluoranthene

Concen: 0.805 ng

RT: 18.813 min Scan# 1888

Delta R.T. -0.005 min

Lab File: BN035353.D

Acq: 27 Nov 2024 17:21

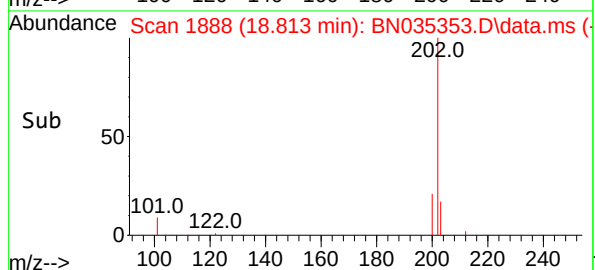
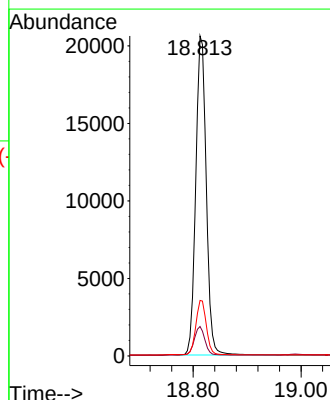
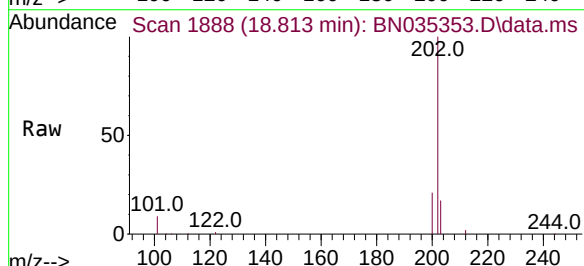
Tgt Ion:202 Resp: 27743

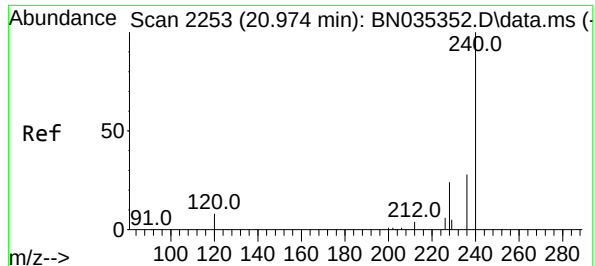
Ion Ratio Lower Upper

202 100

101 9.1 7.4 11.0

203 17.1 13.7 20.5





#29

Chrysene-d12

Concen: 0.400 ng

RT: 20.974 min Scan# 21

Delta R.T. 0.000 min

Lab File: BN035353.D

Acq: 27 Nov 2024 17:21

Instrument :

BNA\_N

ClientSampleId :

SSTDICC0.8

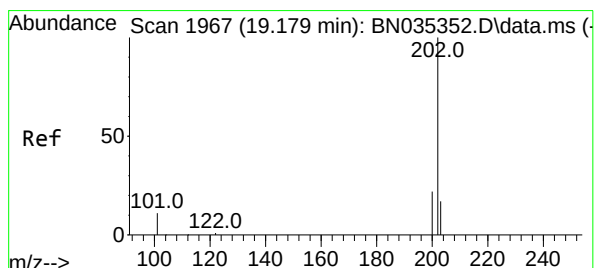
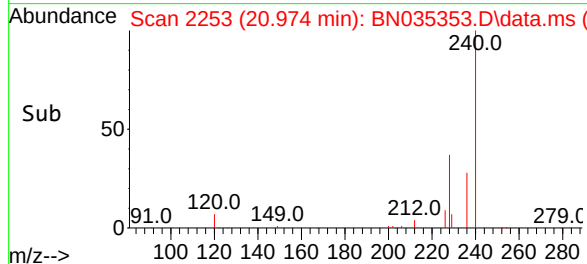
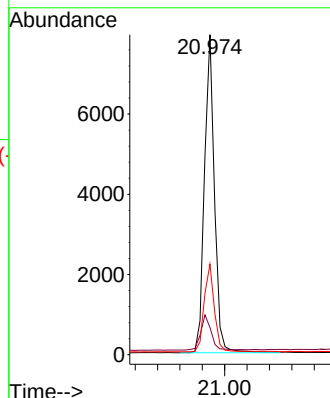
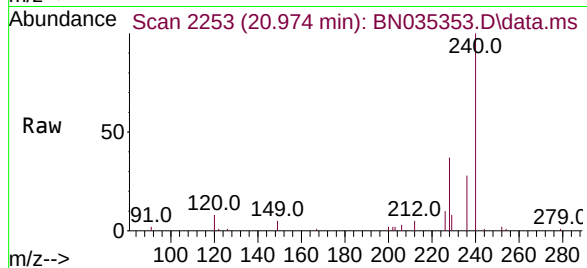
Tgt Ion:240 Resp: 9837

Ion Ratio Lower Upper

240 100

120 8.5 7.9 11.9

236 28.3 22.9 34.3



#30

Pyrene

Concen: 0.866 ng

RT: 19.180 min Scan# 1967

Delta R.T. 0.000 min

Lab File: BN035353.D

Acq: 27 Nov 2024 17:21

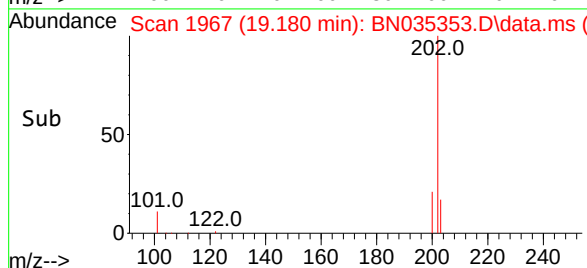
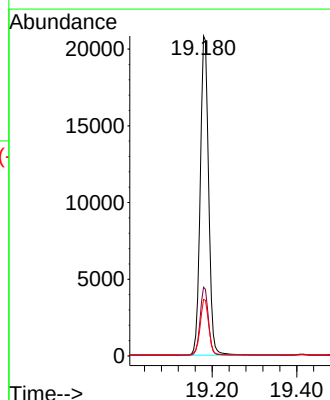
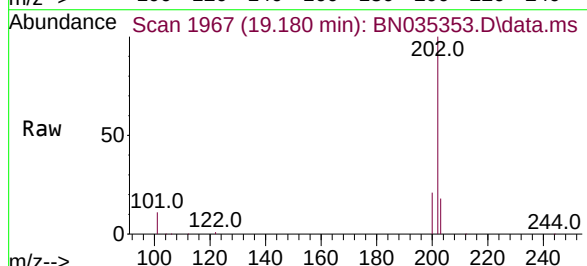
Tgt Ion:202 Resp: 28384

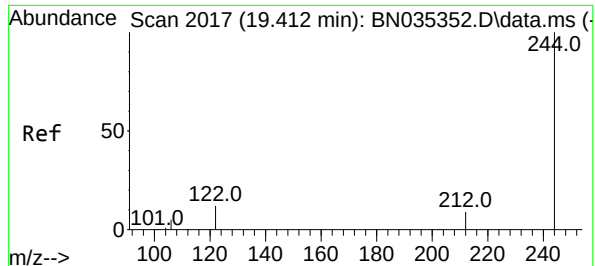
Ion Ratio Lower Upper

202 100

200 21.1 17.0 25.4

203 17.8 14.3 21.5

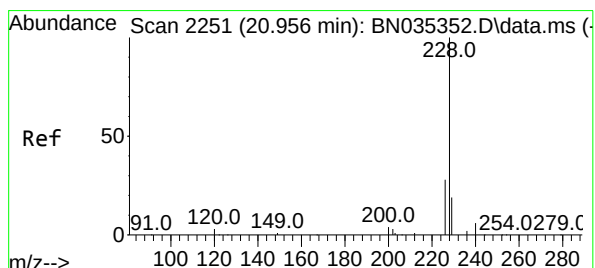
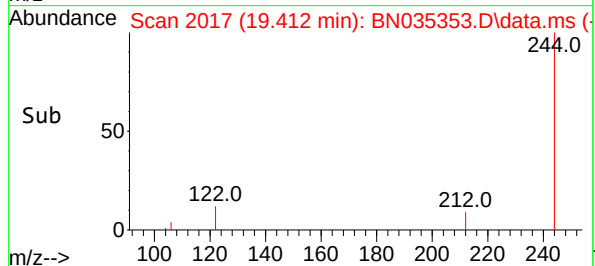
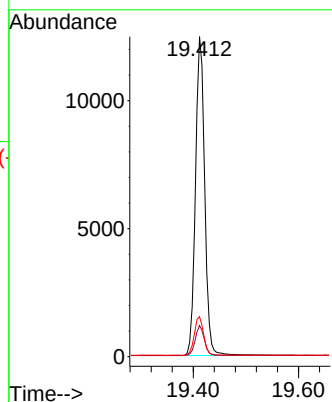
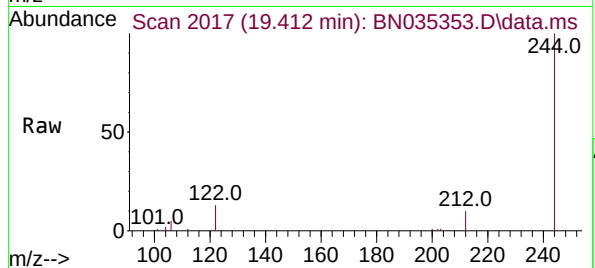




#31  
Terphenyl-d14  
Concen: 0.735 ng  
RT: 19.412 min Scan# 2017  
Delta R.T. 0.000 min  
Lab File: BN035353.D  
Acq: 27 Nov 2024 17:21

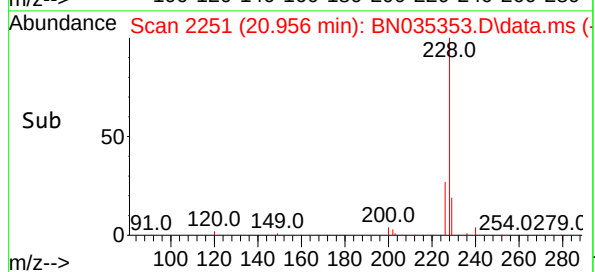
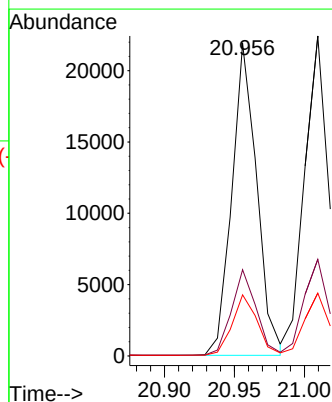
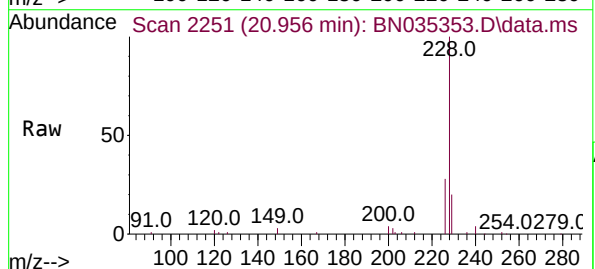
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC0.8

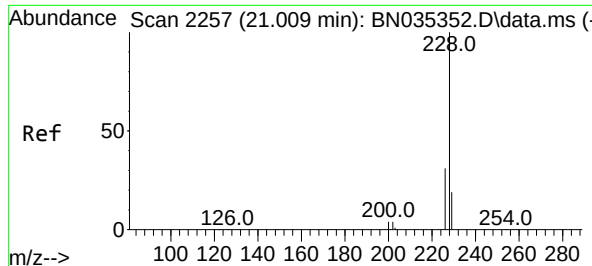
Tgt Ion:244 Resp: 15171  
Ion Ratio Lower Upper  
244 100  
212 9.7 8.1 12.1  
122 12.5 10.3 15.5



#32  
Benzo(a)anthracene  
Concen: 0.790 ng  
RT: 20.956 min Scan# 2251  
Delta R.T. 0.000 min  
Lab File: BN035353.D  
Acq: 27 Nov 2024 17:21

Tgt Ion:228 Resp: 27048  
Ion Ratio Lower Upper  
228 100  
226 27.6 22.5 33.7  
229 19.5 15.8 23.8





#33

Chrysene

Concen: 0.820 ng

RT: 21.010 min Scan# 21

Delta R.T. 0.000 min

Lab File: BN035353.D

Acq: 27 Nov 2024 17:21

Instrument :

BNA\_N

ClientSampleId :

SSTDICC0.8

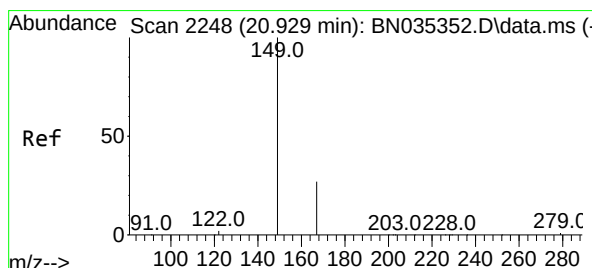
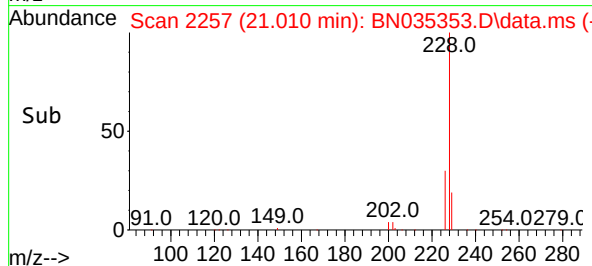
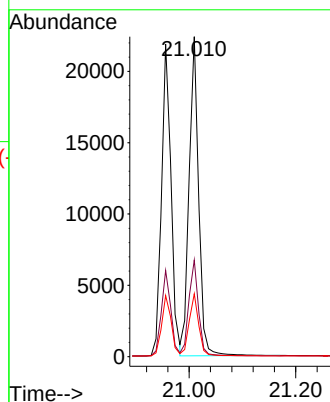
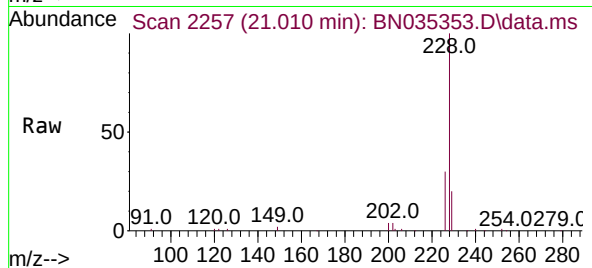
Tgt Ion:228 Resp: 27838

Ion Ratio Lower Upper

228 100

226 30.2 24.6 37.0

229 19.6 15.9 23.9



#34

Bis(2-ethylhexyl)phthalate

Concen: 0.553 ng

RT: 20.929 min Scan# 2248

Delta R.T. 0.000 min

Lab File: BN035353.D

Acq: 27 Nov 2024 17:21

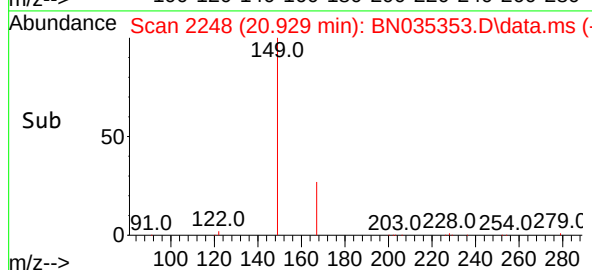
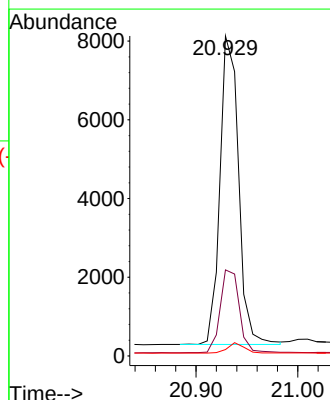
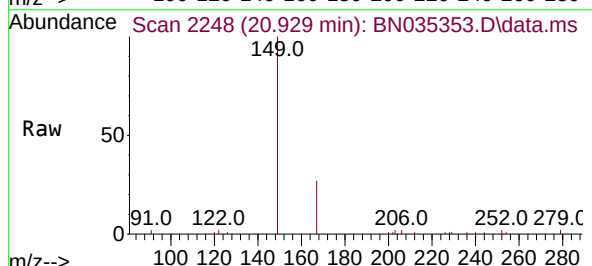
Tgt Ion:149 Resp: 9941

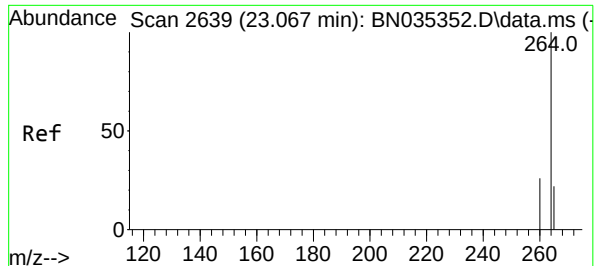
Ion Ratio Lower Upper

149 100

167 27.6 22.2 33.4

279 3.0 2.7 4.1





#35

Perylene-d12

Concen: 0.400 ng

RT: 23.067 min Scan# 2

Delta R.T. 0.000 min

Lab File: BN035353.D

Acq: 27 Nov 2024 17:21

Instrument :

BNA\_N

ClientSampleId :

SSTDICC0.8

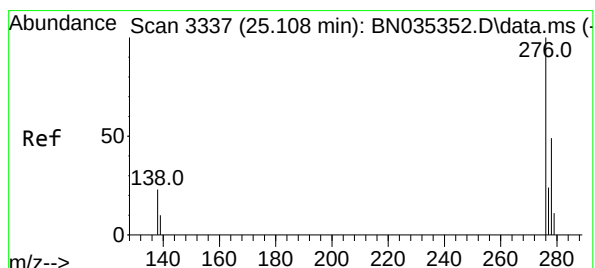
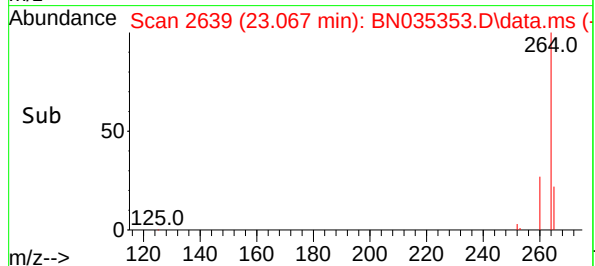
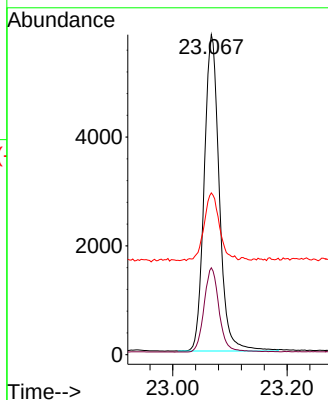
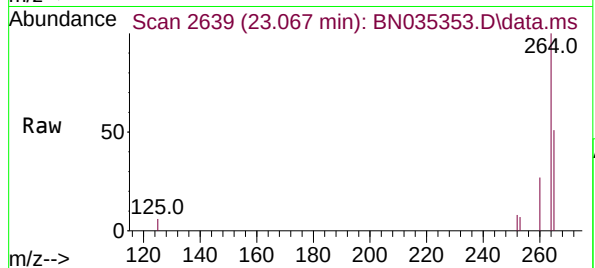
Tgt Ion:264 Resp: 10698

Ion Ratio Lower Upper

264 100

260 27.1 21.4 32.2

265 50.6 40.2 60.4



#36

Indeno(1,2,3-cd)pyrene

Concen: 0.779 ng

RT: 25.108 min Scan# 3337

Delta R.T. 0.000 min

Lab File: BN035353.D

Acq: 27 Nov 2024 17:21

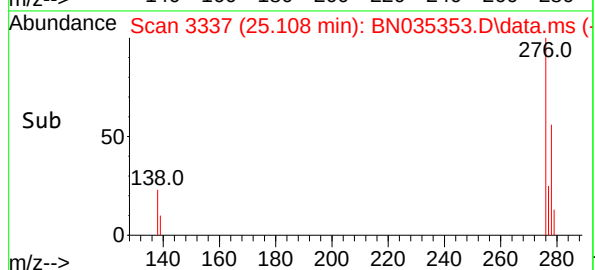
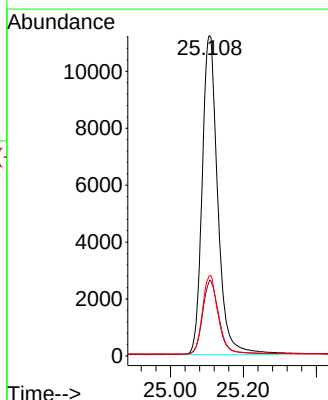
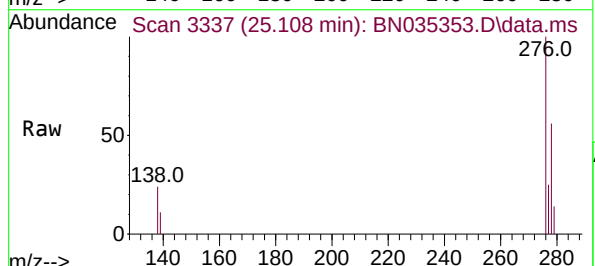
Tgt Ion:276 Resp: 33248

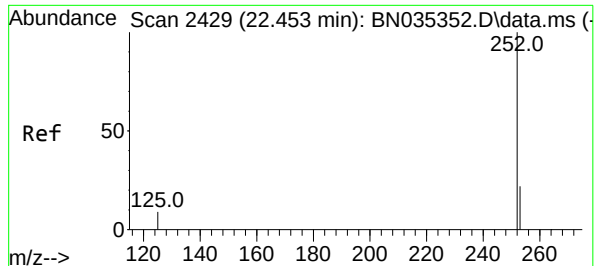
Ion Ratio Lower Upper

276 100

138 23.7 19.4 29.0

277 24.7 19.8 29.6





#37

Benzo(b)fluoranthene

Concen: 0.819 ng

RT: 22.453 min Scan# 2429

Delta R.T. 0.000 min

Lab File: BN035353.D

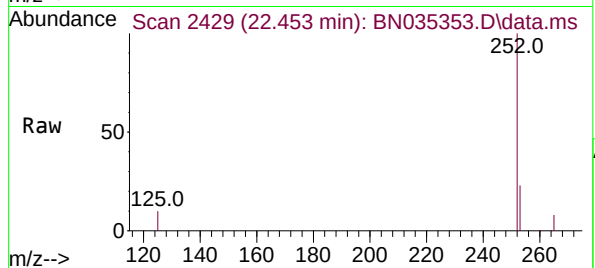
Acq: 27 Nov 2024 17:21

Instrument :

BNA\_N

ClientSampleId :

SSTDICC0.8



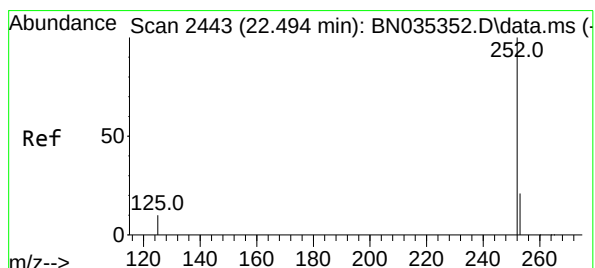
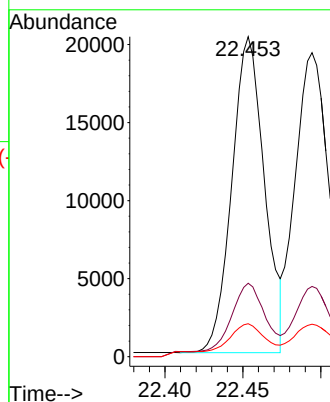
Tgt Ion:252 Resp: 29491

Ion Ratio Lower Upper

252 100

253 22.9 19.6 29.4

125 10.3 9.6 14.4



#38

Benzo(k)fluoranthene

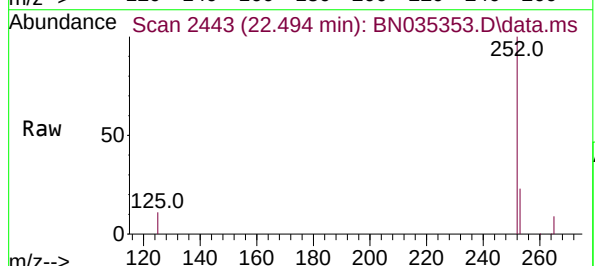
Concen: 0.843 ng

RT: 22.494 min Scan# 2443

Delta R.T. 0.000 min

Lab File: BN035353.D

Acq: 27 Nov 2024 17:21



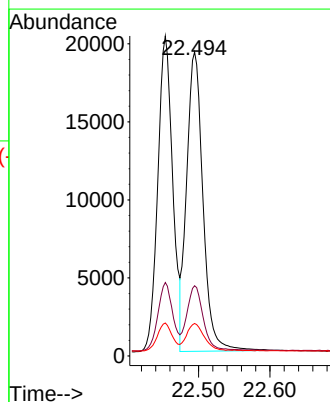
Tgt Ion:252 Resp: 30369

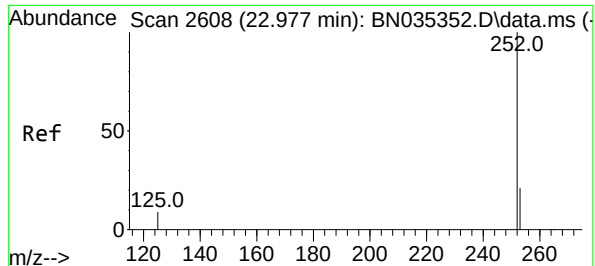
Ion Ratio Lower Upper

252 100

253 23.1 19.5 29.3

125 10.7 10.2 15.4





#39

Benzo(a)pyrene

Concen: 0.791 ng

RT: 22.977 min Scan# 2

Delta R.T. 0.000 min

Lab File: BN035353.D

Acq: 27 Nov 2024 17:21

Instrument :

BNA\_N

ClientSampleId :

SSTDICC0.8

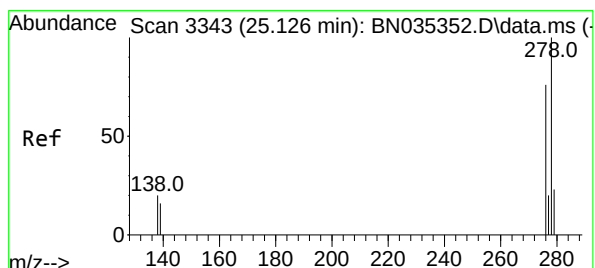
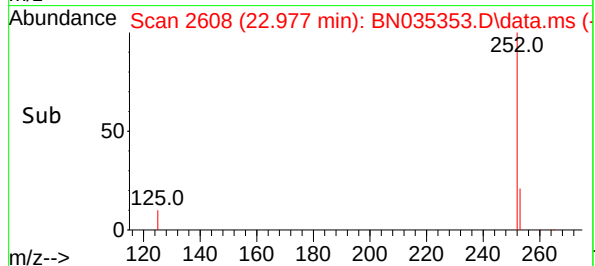
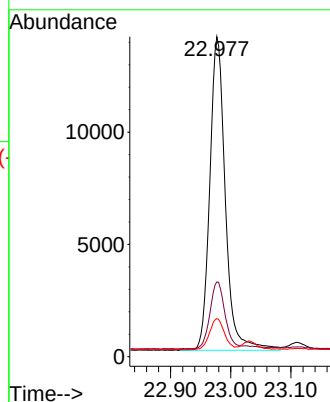
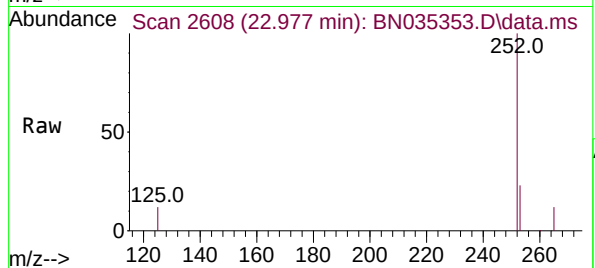
Tgt Ion:252 Resp: 25053

Ion Ratio Lower Upper

252 100

253 23.3 20.2 30.4

125 11.9 10.9 16.3



#40

Dibenzo(a,h)anthracene

Concen: 0.775 ng

RT: 25.123 min Scan# 3342

Delta R.T. -0.003 min

Lab File: BN035353.D

Acq: 27 Nov 2024 17:21

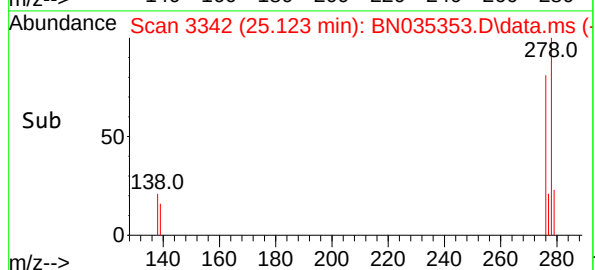
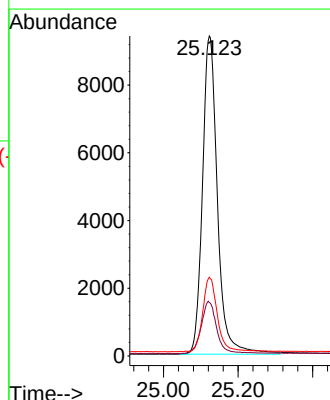
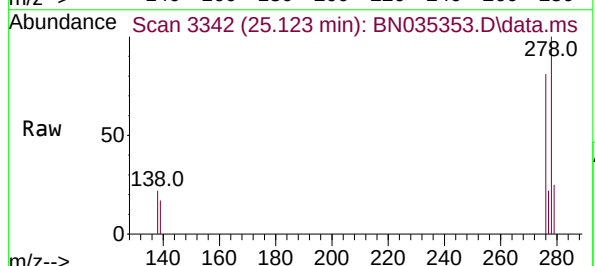
Tgt Ion:278 Resp: 26222

Ion Ratio Lower Upper

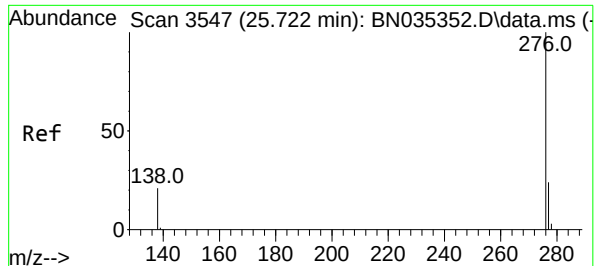
278 100

139 16.7 14.2 21.4

279 24.6 20.5 30.7







#41

Benzo(g,h,i)perylene

Concen: 0.755 ng

RT: 25.722 min Scan# 3

Delta R.T. 0.000 min

Lab File: BN035353.D

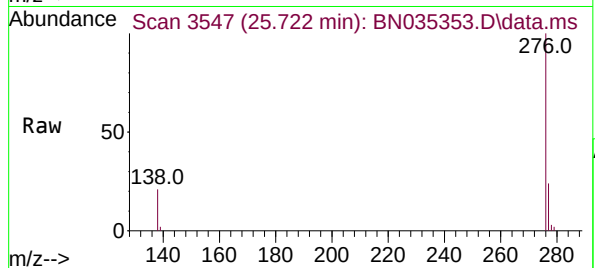
Acq: 27 Nov 2024 17:21

Instrument :

BNA\_N

ClientSampleId :

SSTDICC0.8



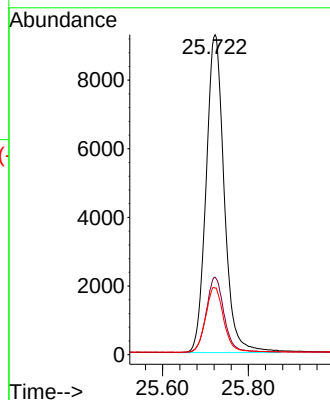
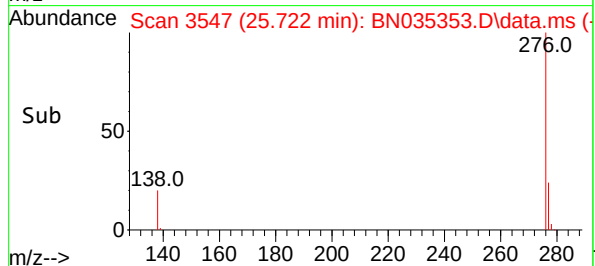
Tgt Ion:276 Resp: 27143

Ion Ratio Lower Upper

276 100

277 24.2 19.9 29.9

138 20.8 17.8 26.8



Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN112724\  
 Data File : BN035354.D  
 Acq On : 27 Nov 2024 17:57  
 Operator : RC/JU  
 Sample : SSTDICC1.6  
 Misc :  
 ALS Vial : 6 Sample Multiplier: 1

Instrument :  
 BNA\_N  
 ClientSampleId :  
 SSTDICC1.6

Quant Time: Nov 27 22:53:28 2024  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\8270-SIM-BN112724.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Wed Nov 27 22:48:24 2024  
 Response via : Initial Calibration

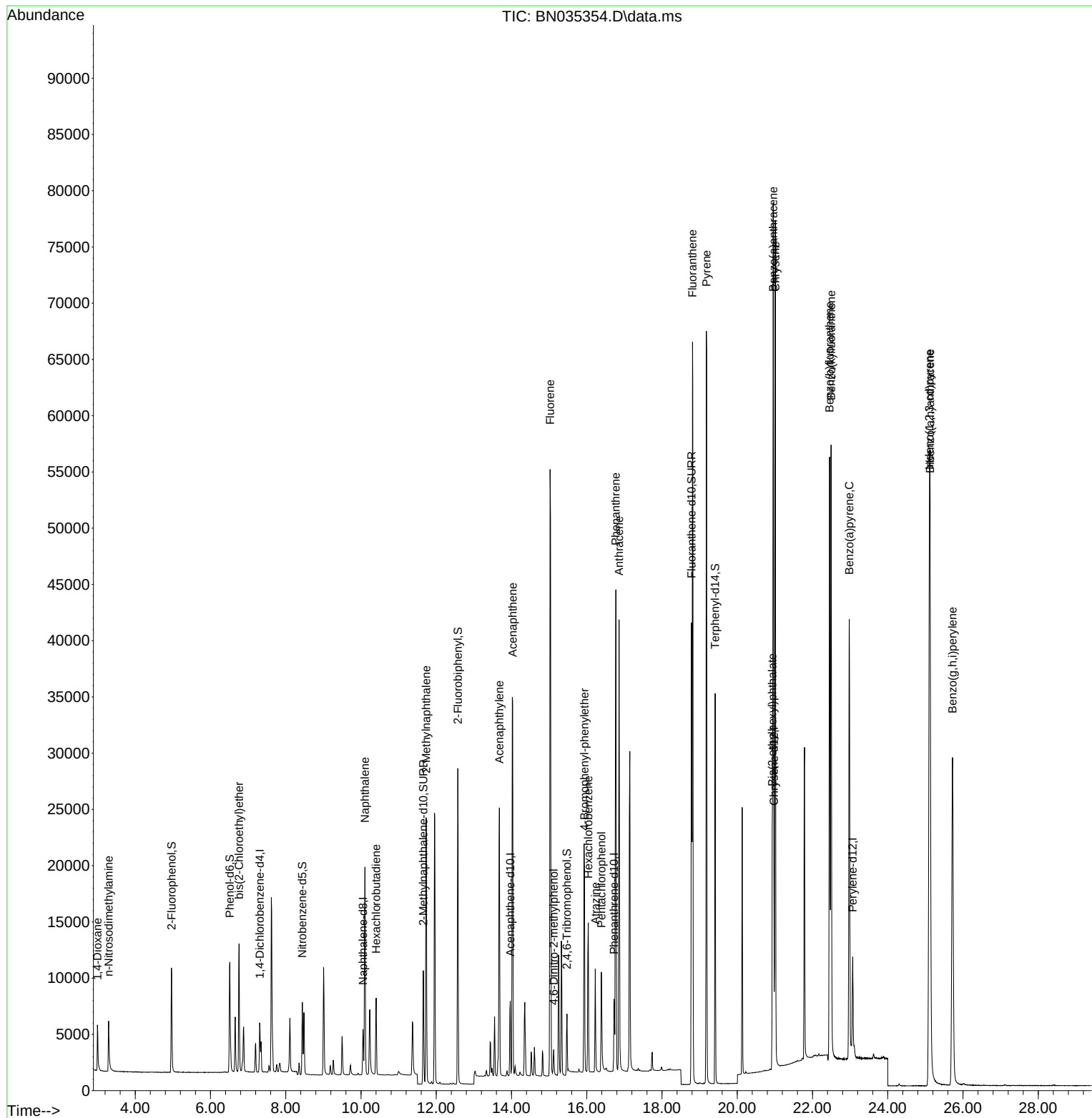
| Compound                      | R.T.   | QIon | Response | Conc  | Units | Dev(Min) |
|-------------------------------|--------|------|----------|-------|-------|----------|
| -----                         |        |      |          |       |       |          |
| Internal Standards            |        |      |          |       |       |          |
| 1) 1,4-Dichlorobenzene-d4     | 7.308  | 152  | 2053     | 0.400 | ng    | 0.00     |
| 7) Naphthalene-d8             | 10.052 | 136  | 5309     | 0.400 | ng    | 0.00     |
| 13) Acenaphthene-d10          | 13.967 | 164  | 3942     | 0.400 | ng    | 0.00     |
| 19) Phenanthrene-d10          | 16.723 | 188  | 9517     | 0.400 | ng    | #-0.01   |
| 29) Chrysene-d12              | 20.974 | 240  | 9905     | 0.400 | ng    | 0.00     |
| 35) Perylene-d12              | 23.067 | 264  | 10469    | 0.400 | ng    | 0.00     |
| System Monitoring Compounds   |        |      |          |       |       |          |
| 4) 2-Fluorophenol             | 4.968  | 112  | 8194     | 1.572 | ng    | 0.00     |
| 5) Phenol-d6                  | 6.513  | 99   | 10139    | 1.552 | ng    | 0.00     |
| 8) Nitrobenzene-d5            | 8.440  | 82   | 5450     | 1.179 | ng    | 0.00     |
| 11) 2-Methylnaphthalene-d10   | 11.656 | 152  | 13988    | 1.478 | ng    | 0.00     |
| 14) 2,4,6-Tribromophenol      | 15.475 | 330  | 4615     | 1.623 | ng    | 0.00     |
| 15) 2-Fluorobiphenyl          | 12.574 | 172  | 24687    | 1.542 | ng    | 0.00     |
| 27) Fluoranthene-d10          | 18.785 | 212  | 44338    | 1.521 | ng    | 0.00     |
| 31) Terphenyl-d14             | 19.412 | 244  | 32174    | 1.548 | ng    | 0.00     |
| Target Compounds              |        |      |          |       |       |          |
|                               |        |      |          |       |       | Qvalue   |
| 2) 1,4-Dioxane                | 2.996  | 88   | 3220     | 1.727 | ng    | 99       |
| 3) n-Nitrosodimethylamine     | 3.292  | 42   | 2729     | 1.570 | ng    | # 97     |
| 6) bis(2-Chloroethyl)ether    | 6.759  | 93   | 8629     | 1.759 | ng    | 100      |
| 9) Naphthalene                | 10.105 | 128  | 23280    | 1.680 | ng    | 98       |
| 10) Hexachlorobutadiene       | 10.404 | 225  | 5409     | 1.331 | ng    | # 100    |
| 12) 2-Methylnaphthalene       | 11.732 | 142  | 16881    | 1.651 | ng    | 98       |
| 16) Acenaphthylene            | 13.679 | 152  | 27389    | 1.626 | ng    | 99       |
| 17) Acenaphthene              | 14.032 | 154  | 18061    | 1.636 | ng    | 99       |
| 18) Fluorene                  | 15.026 | 166  | 26044    | 1.604 | ng    | 99       |
| 20) 4,6-Dinitro-2-methylph... | 15.122 | 198  | 1947     | 0.983 | ng    | # 69     |
| 21) 4-Bromophenyl-phenylether | 15.941 | 248  | 9493     | 1.566 | ng    | 96       |
| 22) Hexachlorobenzene         | 16.041 | 284  | 10969    | 1.743 | ng    | 100      |
| 23) Atrazine                  | 16.227 | 200  | 6644     | 1.221 | ng    | 96       |
| 24) Pentachlorophenol         | 16.388 | 266  | 4618     | 1.571 | ng    | # 85     |
| 25) Phenanthrene              | 16.773 | 178  | 43698    | 1.745 | ng    | 100      |
| 26) Anthracene                | 16.860 | 178  | 39964    | 1.737 | ng    | 99       |
| 28) Fluoranthene              | 18.813 | 202  | 58605    | 1.702 | ng    | 100      |
| 30) Pyrene                    | 19.180 | 202  | 60164    | 1.824 | ng    | 100      |
| 32) Benzo(a)anthracene        | 20.956 | 228  | 57498    | 1.667 | ng    | 100      |
| 33) Chrysene                  | 21.010 | 228  | 58919    | 1.725 | ng    | 99       |
| 34) Bis(2-ethylhexyl)phtha... | 20.929 | 149  | 20598    | 1.138 | ng    | 100      |
| 36) Indeno(1,2,3-cd)pyrene    | 25.105 | 276  | 69517    | 1.665 | ng    | 99       |
| 37) Benzo(b)fluoranthene      | 22.454 | 252  | 76506    | 2.172 | ng    | 95       |
| 38) Benzo(k)fluoranthene      | 22.494 | 252  | 63925    | 1.814 | ng    | # 95     |
| 39) Benzo(a)pyrene            | 22.977 | 252  | 52595    | 1.697 | ng    | # 94     |
| 40) Dibenzo(a,h)anthracene    | 25.126 | 278  | 55068    | 1.664 | ng    | 96       |
| 41) Benzo(g,h,i)perylene      | 25.719 | 276  | 56947    | 1.618 | ng    | 97       |
| -----                         |        |      |          |       |       |          |

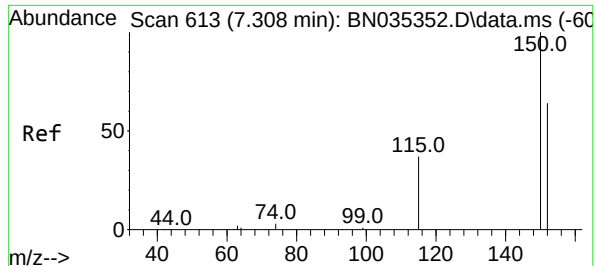
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN112724\  
 Data File : BN035354.D  
 Acq On : 27 Nov 2024 17:57  
 Operator : RC/JU  
 Sample : SSTDICC1.6  
 Misc :  
 ALS Vial : 6 Sample Multiplier: 1

Instrument :  
 BNA\_N  
 ClientSampleId :  
 SSTDICC1.6

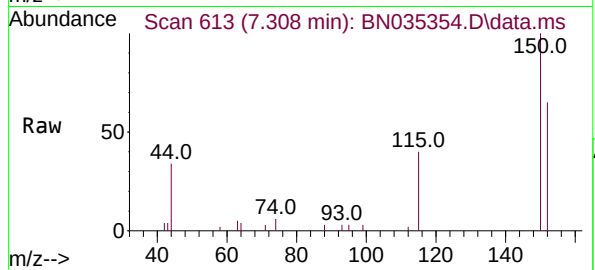
Quant Time: Nov 27 22:53:28 2024  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\8270-SIM-BN112724.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Wed Nov 27 22:48:24 2024  
 Response via : Initial Calibration





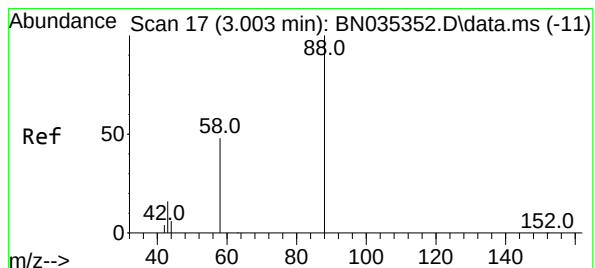
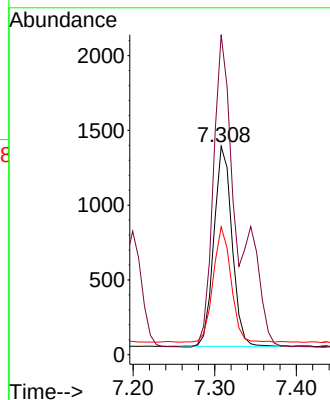
#1  
1,4-Dichlorobenzene-d4  
Concen: 0.400 ng  
RT: 7.308 min Scan# 61  
Delta R.T. -0.000 min  
Lab File: BN035354.D  
Acq: 27 Nov 2024 17:57

Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC1.6



Tgt Ion:152 Resp: 2053

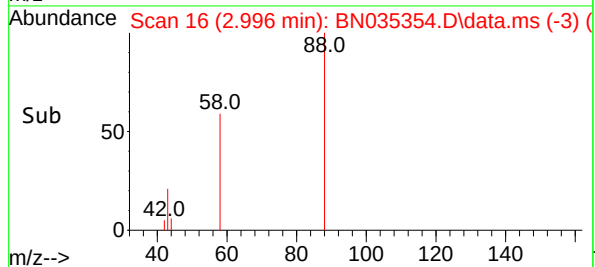
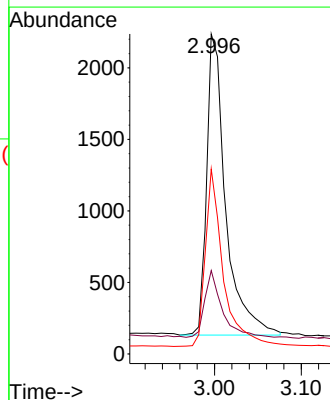
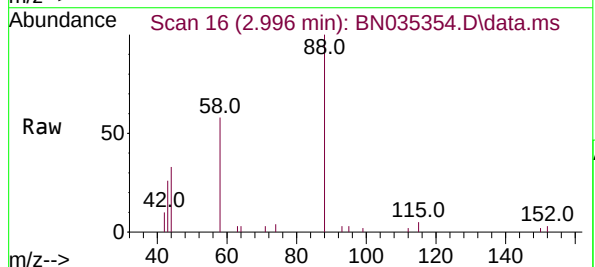
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 152 | 100   |       |       |
| 150 | 153.6 | 124.0 | 186.0 |
| 115 | 61.4  | 49.6  | 74.4  |

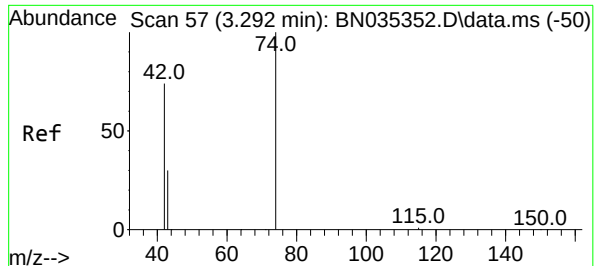


#2  
1,4-Dioxane  
Concen: 1.727 ng  
RT: 2.996 min Scan# 16  
Delta R.T. -0.007 min  
Lab File: BN035354.D  
Acq: 27 Nov 2024 17:57

Tgt Ion: 88 Resp: 3220

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 88  | 100   |       |       |
| 43  | 20.3  | 17.2  | 25.8  |
| 58  | 55.1  | 44.5  | 66.7  |

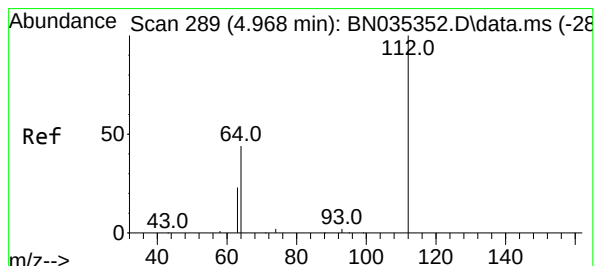
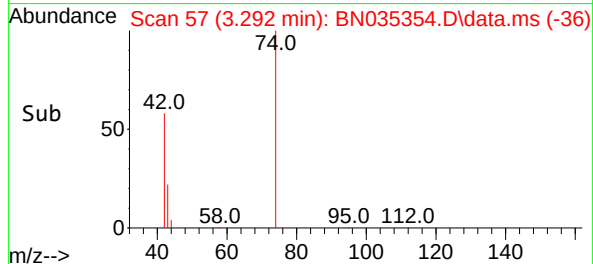
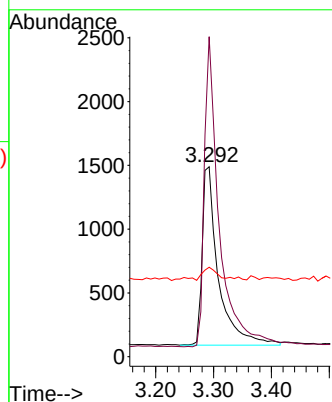
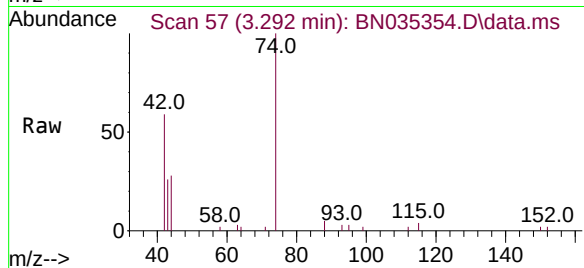




#3  
n-Nitrosodimethylamine  
Concen: 1.570 ng  
RT: 3.292 min Scan# 57  
Delta R.T. 0.000 min  
Lab File: BN035354.D  
Acq: 27 Nov 2024 17:57

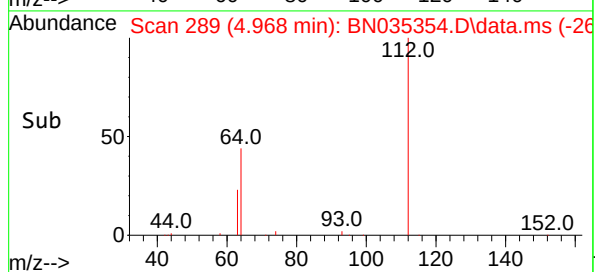
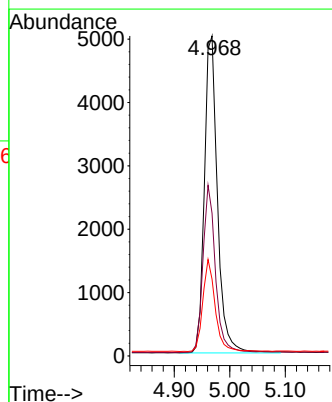
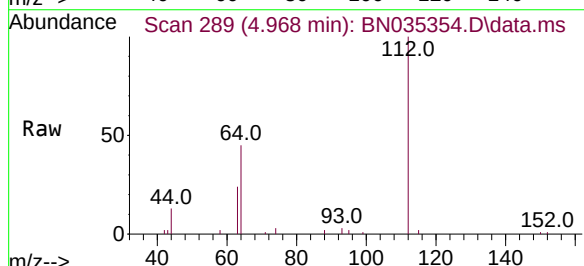
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC1.6

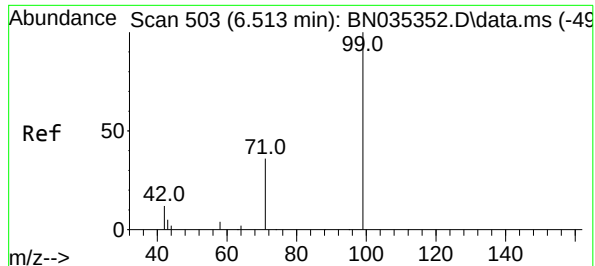
Tgt Ion: 42 Resp: 2729  
Ion Ratio Lower Upper  
42 100  
74 160.4 124.9 187.3  
44 6.2 2.2 3.4#



#4  
2-Fluorophenol  
Concen: 1.572 ng  
RT: 4.968 min Scan# 289  
Delta R.T. 0.000 min  
Lab File: BN035354.D  
Acq: 27 Nov 2024 17:57

Tgt Ion: 112 Resp: 8194  
Ion Ratio Lower Upper  
112 100  
64 50.7 39.8 59.8  
63 27.5 21.0 31.6

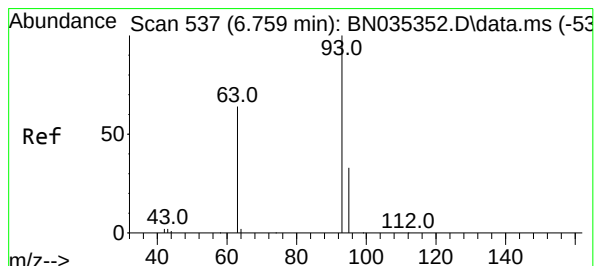
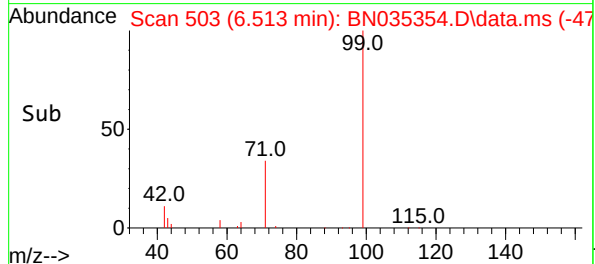
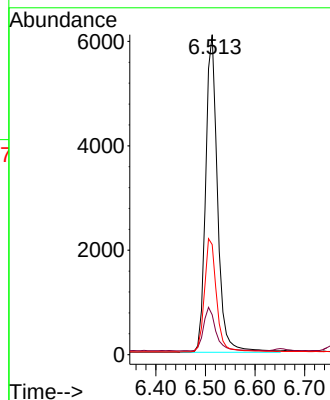
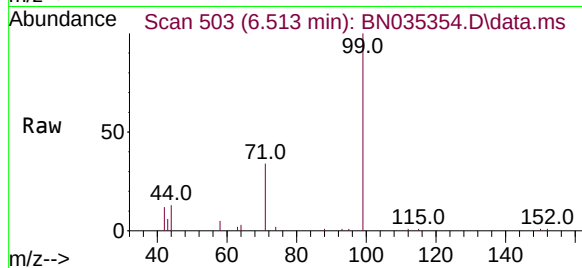




#5  
Phenol-d6  
Concen: 1.552 ng  
RT: 6.513 min Scan# 503  
Delta R.T. 0.000 min  
Lab File: BN035354.D  
Acq: 27 Nov 2024 17:57

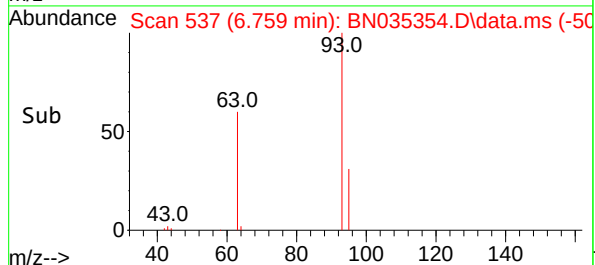
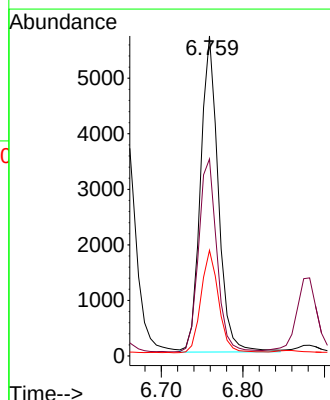
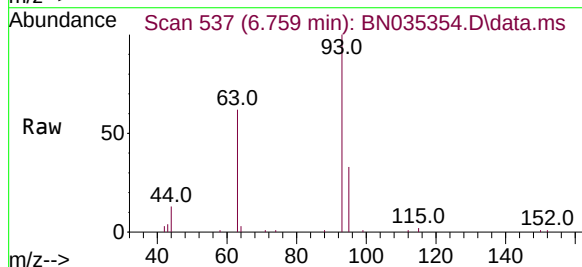
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC1.6

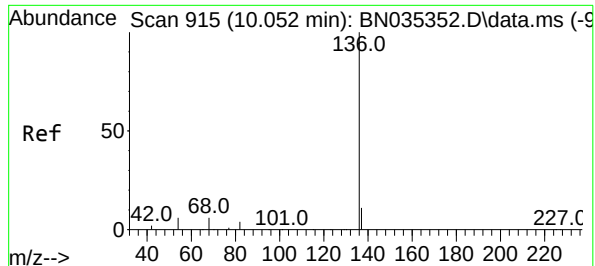
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 99      | 100   |       |       |
| 42      | 14.5  | 11.4  | 17.2  |
| 71      | 36.3  | 29.3  | 43.9  |



#6  
bis(2-Chloroethyl)ether  
Concen: 1.759 ng  
RT: 6.759 min Scan# 537  
Delta R.T. 0.000 min  
Lab File: BN035354.D  
Acq: 27 Nov 2024 17:57

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 93      | 100   |       |       |
| 63      | 62.6  | 50.4  | 75.6  |
| 95      | 32.2  | 25.7  | 38.5  |

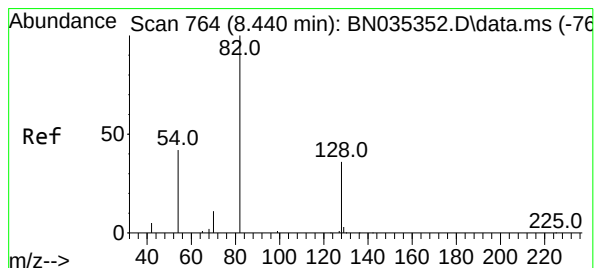
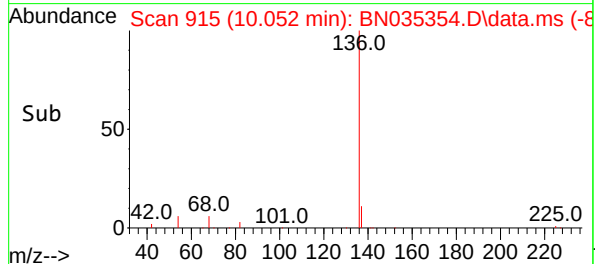
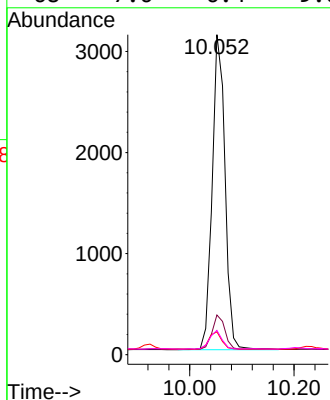
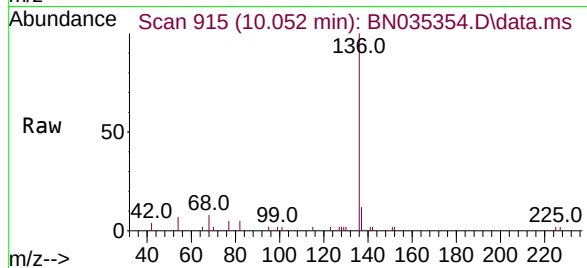




#7  
Naphthalene-d8  
Concen: 0.400 ng  
RT: 10.052 min Scan# 915  
Delta R.T. 0.000 min  
Lab File: BN035354.D  
Acq: 27 Nov 2024 17:57

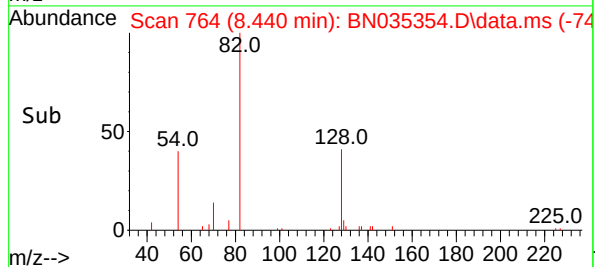
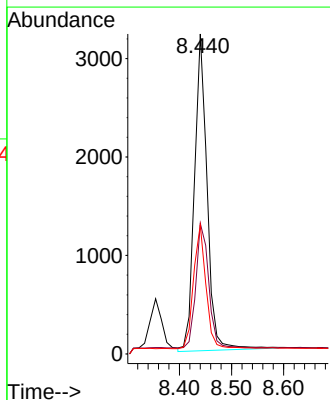
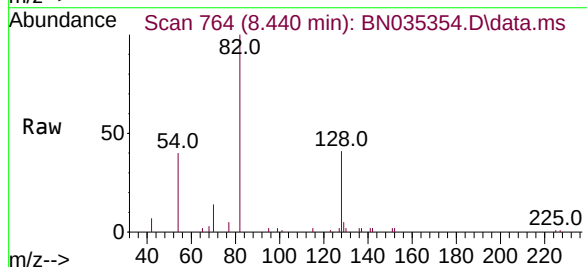
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC1.6

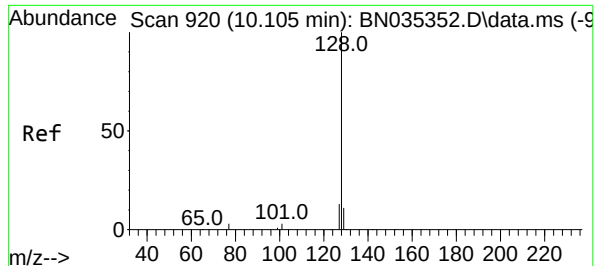
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 136   | Resp: | 5309  |
| Ion      | Ratio | Lower | Upper |
| 136      | 100   |       |       |
| 137      | 12.4  | 10.2  | 15.2  |
| 54       | 7.2   | 6.1   | 9.1   |
| 68       | 7.6   | 6.4   | 9.6   |



#8  
Nitrobenzene-d5  
Concen: 1.179 ng  
RT: 8.440 min Scan# 764  
Delta R.T. 0.000 min  
Lab File: BN035354.D  
Acq: 27 Nov 2024 17:57

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 82    | Resp: | 5450  |
| Ion      | Ratio | Lower | Upper |
| 82       | 100   |       |       |
| 128      | 40.8  | 33.4  | 50.0  |
| 54       | 40.3  | 36.7  | 55.1  |



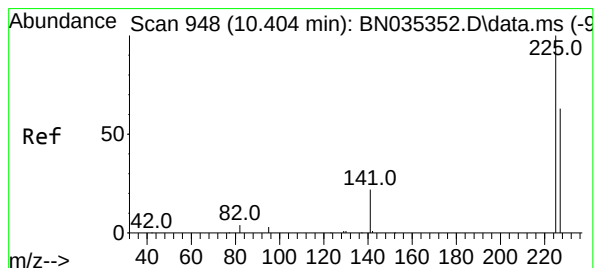
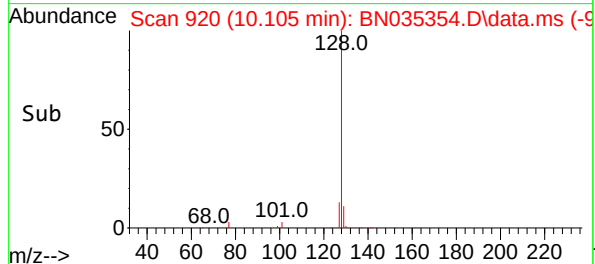
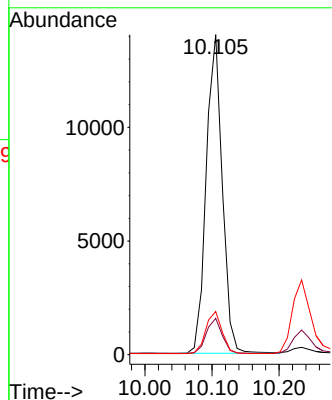
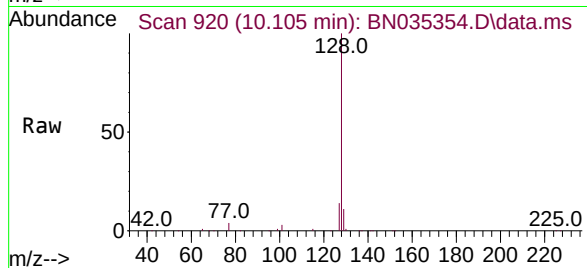


#9  
Naphthalene

Concen: 1.680 ng  
RT: 10.105 min Scan# 912  
Delta R.T. 0.000 min  
Lab File: BN035354.D  
Acq: 27 Nov 2024 17:57

Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC1.6

| Tgt Ion   | 128   | 129  | 127  |
|-----------|-------|------|------|
| Resp:     | 23280 |      |      |
| Ion Ratio | 100   | 11.4 | 13.5 |
| Lower     |       | 9.8  | 11.4 |
| Upper     |       | 14.6 | 17.2 |

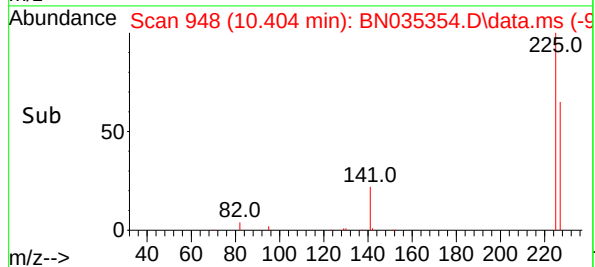
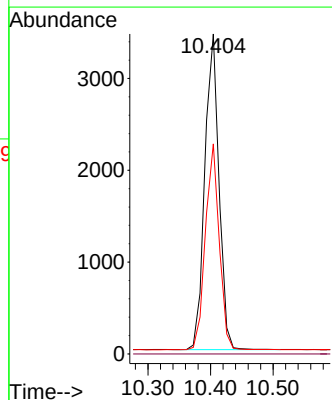
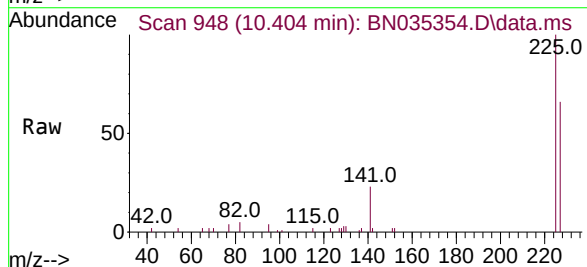


#10

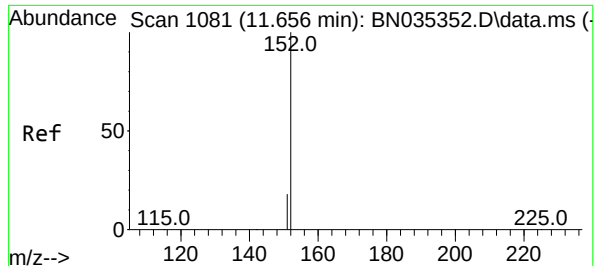
Hexachlorobutadiene

Concen: 1.331 ng  
RT: 10.404 min Scan# 948  
Delta R.T. 0.000 min  
Lab File: BN035354.D  
Acq: 27 Nov 2024 17:57

| Tgt Ion   | 225  | 223 | 227  |
|-----------|------|-----|------|
| Resp:     | 5409 |     |      |
| Ion Ratio | 100  | 0.0 | 63.9 |
| Lower     |      | 0.0 | 51.3 |
| Upper     |      | 0.0 | 76.9 |



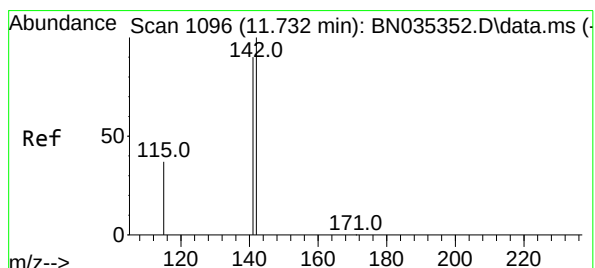
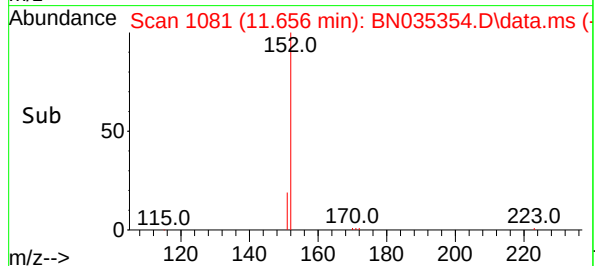
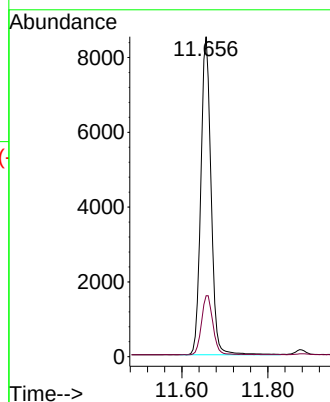
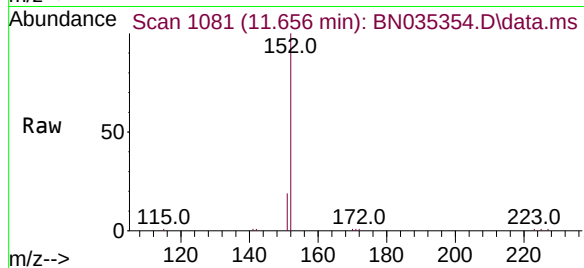




#11  
2-Methylnaphthalene-d10  
Concen: 1.478 ng  
RT: 11.656 min Scan# 1081  
Delta R.T. 0.000 min  
Lab File: BN035354.D  
Acq: 27 Nov 2024 17:57

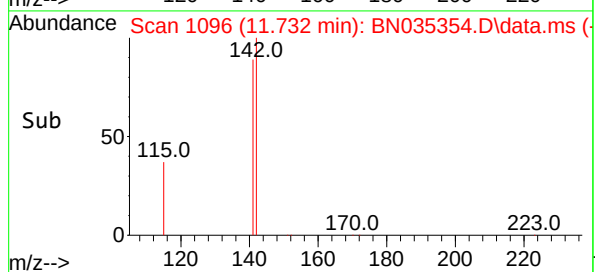
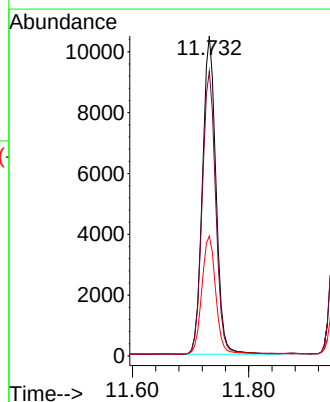
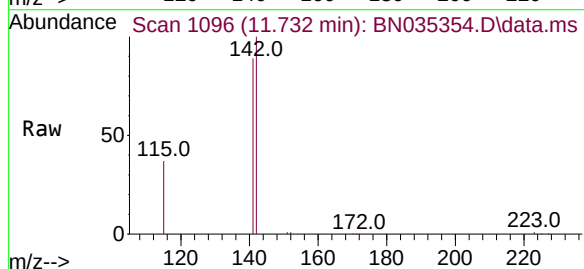
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC1.6

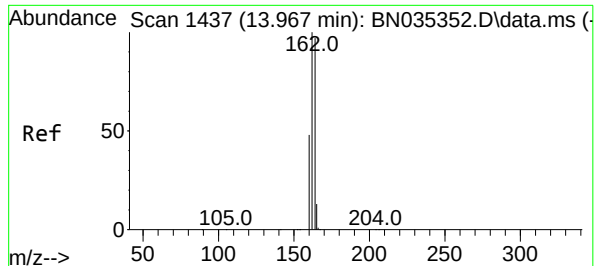
Tgt Ion:152 Resp: 13988  
Ion Ratio Lower Upper  
152 100  
151 20.5 16.6 25.0



#12  
2-Methylnaphthalene  
Concen: 1.651 ng  
RT: 11.732 min Scan# 1096  
Delta R.T. 0.000 min  
Lab File: BN035354.D  
Acq: 27 Nov 2024 17:57

Tgt Ion:142 Resp: 16881  
Ion Ratio Lower Upper  
142 100  
141 89.0 72.2 108.4  
115 37.5 31.4 47.0

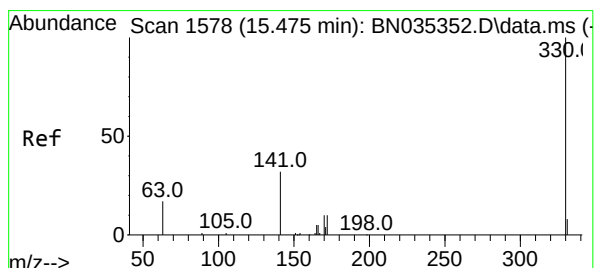
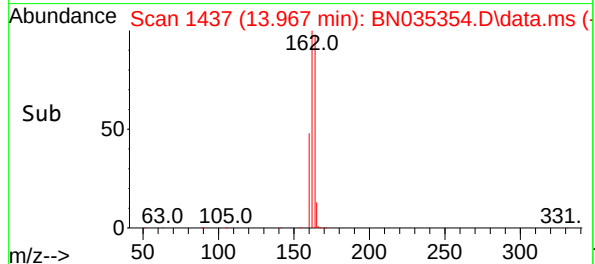
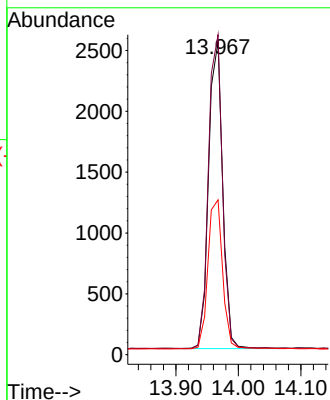
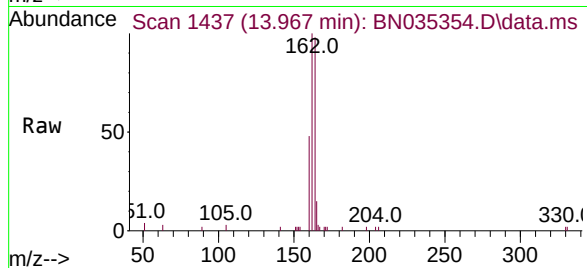




#13  
Acenaphthene-d10  
Concen: 0.400 ng  
RT: 13.967 min Scan# 1437  
Delta R.T. 0.000 min  
Lab File: BN035354.D  
Acq: 27 Nov 2024 17:57

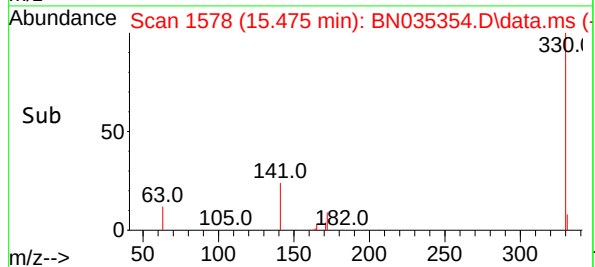
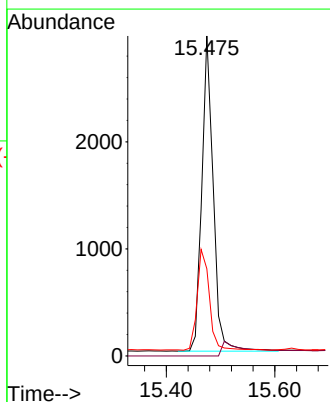
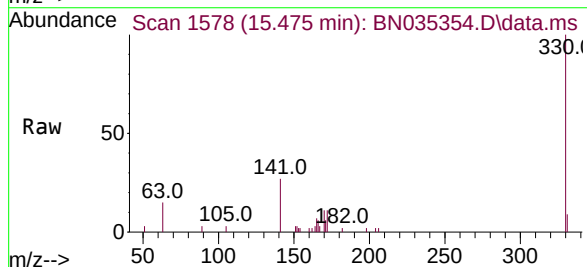
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC1.6

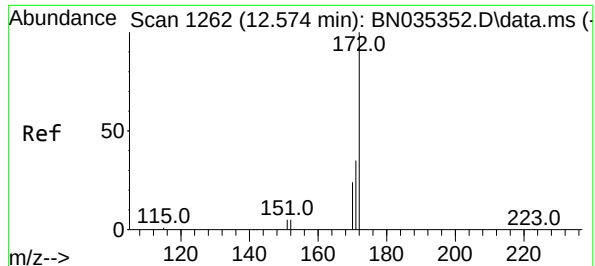
Tgt Ion:164 Resp: 3942  
Ion Ratio Lower Upper  
164 100  
162 102.2 82.2 123.2  
160 49.5 40.1 60.1



#14  
2,4,6-Tribromophenol  
Concen: 1.623 ng  
RT: 15.475 min Scan# 1578  
Delta R.T. 0.000 min  
Lab File: BN035354.D  
Acq: 27 Nov 2024 17:57

Tgt Ion:330 Resp: 4615  
Ion Ratio Lower Upper  
330 100  
332 0.0 0.0 0.0  
141 33.6 26.6 40.0

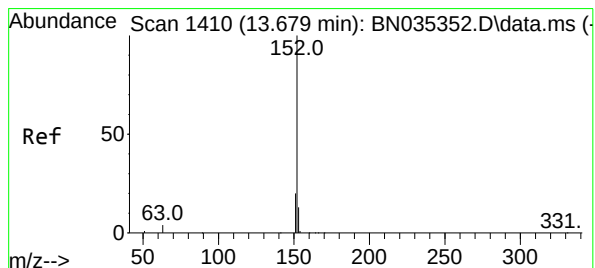
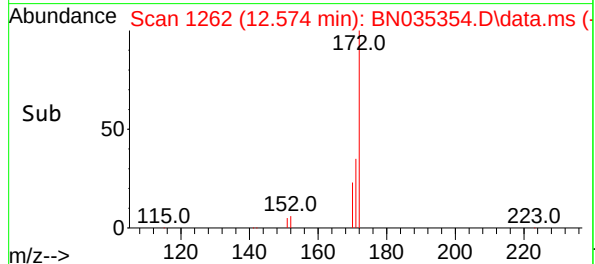
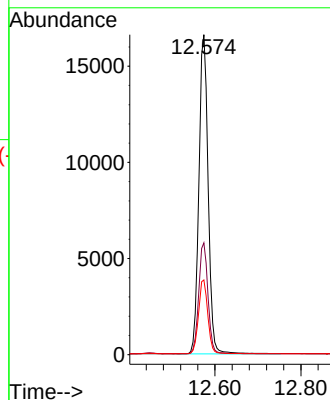
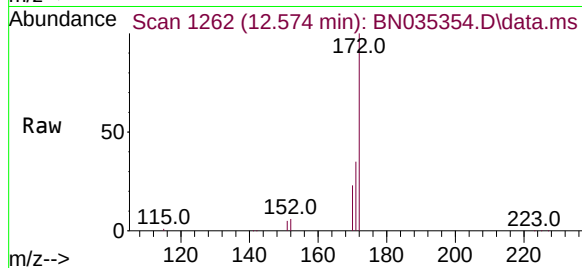




#15  
2-Fluorobiphenyl  
Concen: 1.542 ng  
RT: 12.574 min Scan# 11  
Delta R.T. 0.000 min  
Lab File: BN035354.D  
Acq: 27 Nov 2024 17:57

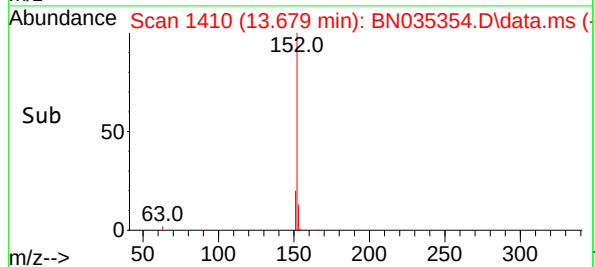
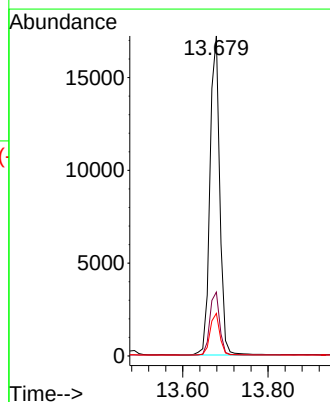
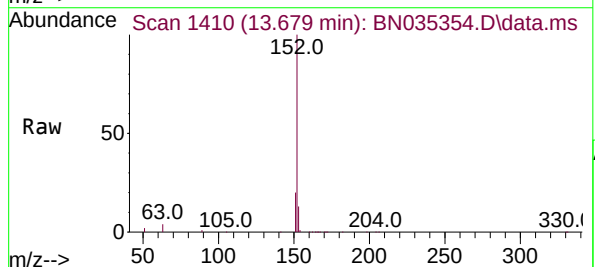
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC1.6

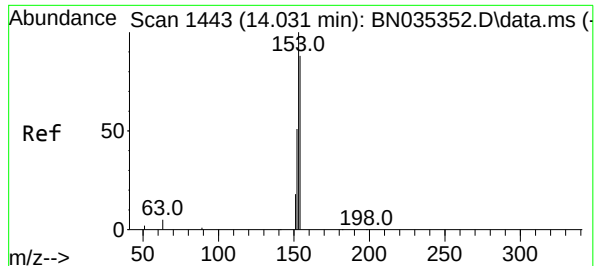
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 172     | 100   |       |       |
| 171     | 35.0  | 29.0  | 43.4  |
| 170     | 23.4  | 19.8  | 29.8  |



#16  
Acenaphthylene  
Concen: 1.626 ng  
RT: 13.679 min Scan# 1410  
Delta R.T. 0.000 min  
Lab File: BN035354.D  
Acq: 27 Nov 2024 17:57

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 151     | 19.8  | 16.2  | 24.2  |
| 153     | 13.0  | 10.4  | 15.6  |

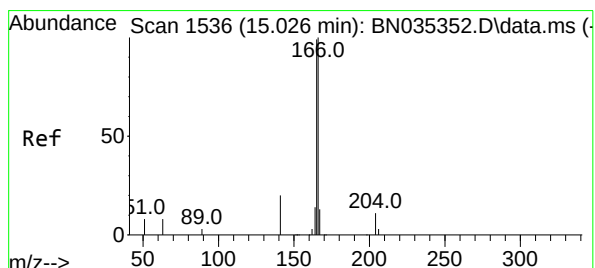
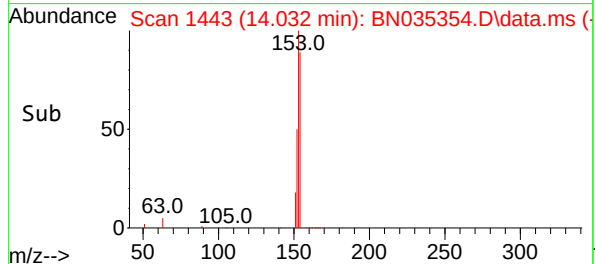
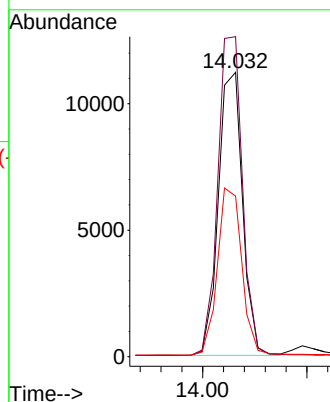
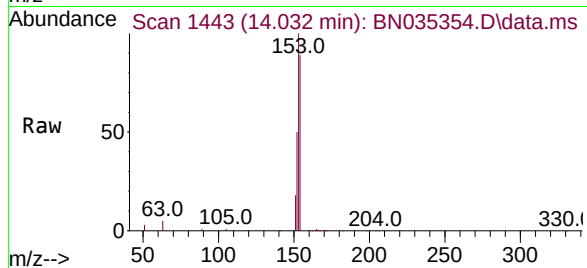




#17  
Acenaphthene  
Concen: 1.636 ng  
RT: 14.032 min Scan# 1443  
Delta R.T. 0.000 min  
Lab File: BN035354.D  
Acq: 27 Nov 2024 17:57

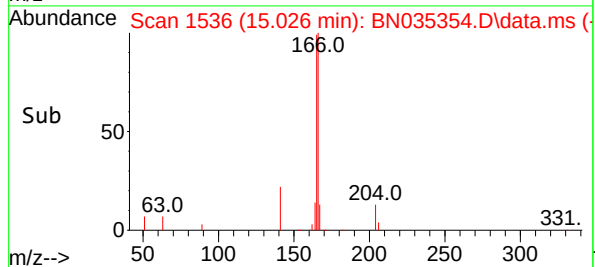
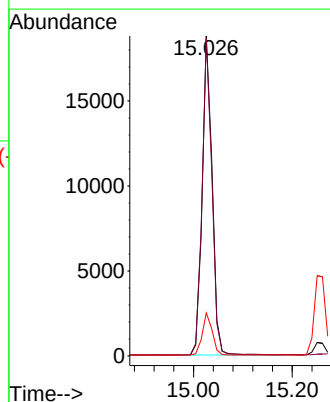
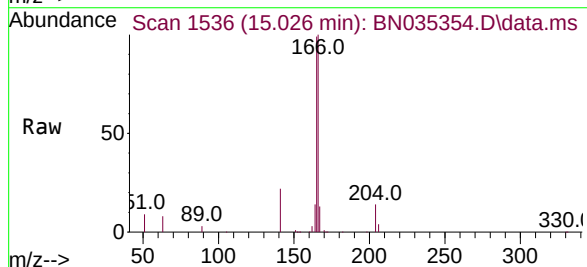
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC1.6

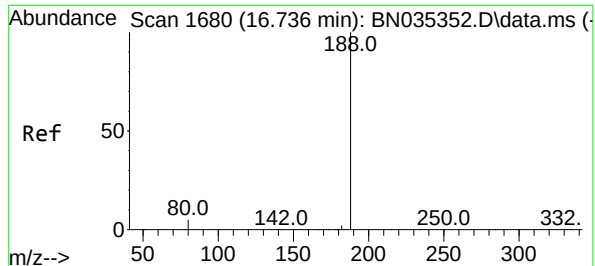
Tgt Ion:154 Resp: 18061  
Ion Ratio Lower Upper  
154 100  
153 115.1 92.6 139.0  
152 59.9 49.0 73.6



#18  
Fluorene  
Concen: 1.604 ng  
RT: 15.026 min Scan# 1536  
Delta R.T. 0.000 min  
Lab File: BN035354.D  
Acq: 27 Nov 2024 17:57

Tgt Ion:166 Resp: 26044  
Ion Ratio Lower Upper  
166 100  
165 98.2 79.7 119.5  
167 13.3 10.8 16.2





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 16.723 min Scan# 1

Delta R.T. -0.012 min

Lab File: BN035354.D

Acq: 27 Nov 2024 17:57

Instrument :

BNA\_N

ClientSampleId :

SSTDICC1.6

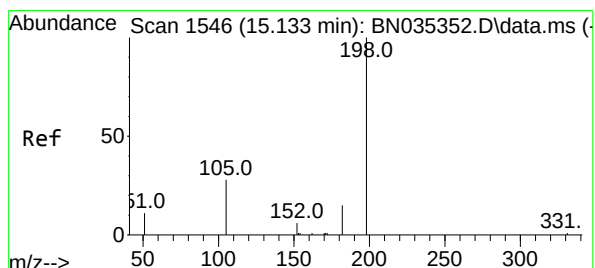
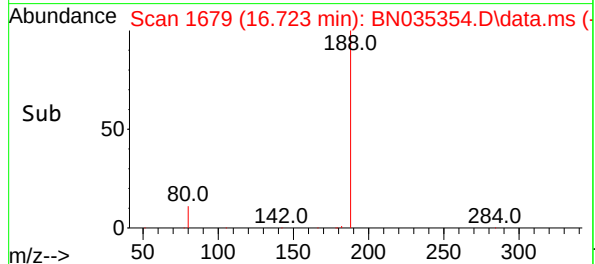
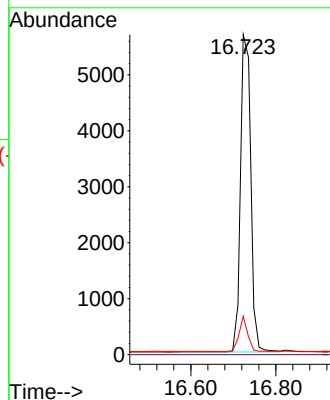
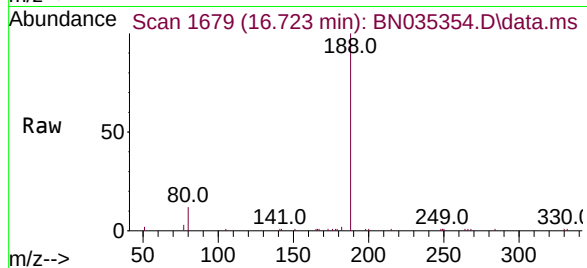
Tgt Ion:188 Resp: 9517

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 12.0 4.6 6.8#



#20

4,6-Dinitro-2-methylphenol

Concen: 0.983 ng

RT: 15.122 min Scan# 1545

Delta R.T. -0.011 min

Lab File: BN035354.D

Acq: 27 Nov 2024 17:57

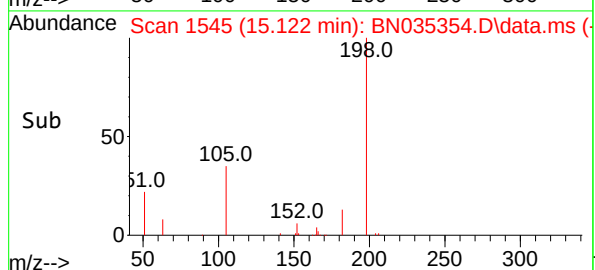
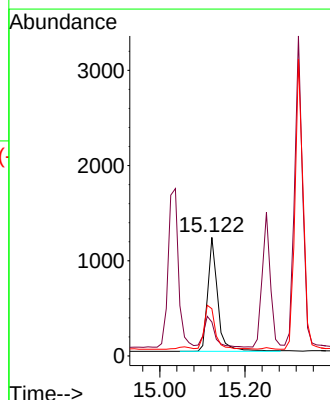
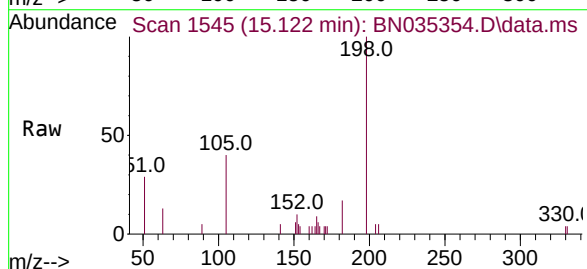
Tgt Ion:198 Resp: 1947

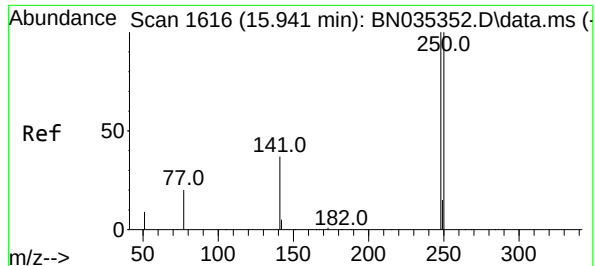
Ion Ratio Lower Upper

198 100

51 28.6 46.5 69.7#

105 39.8 45.3 67.9#

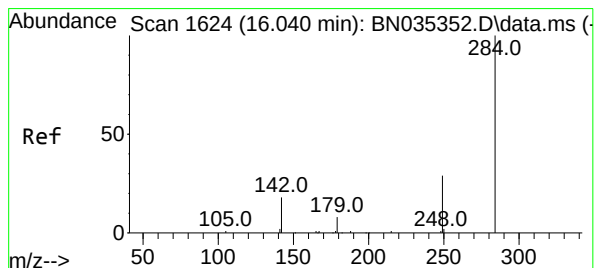
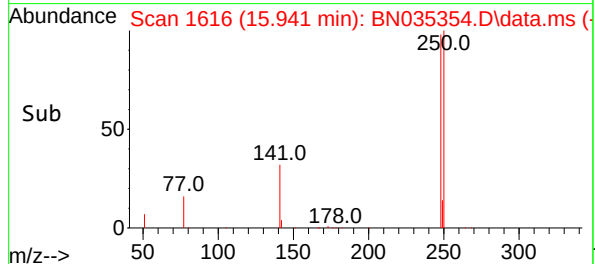
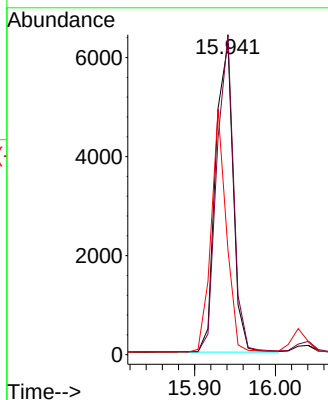
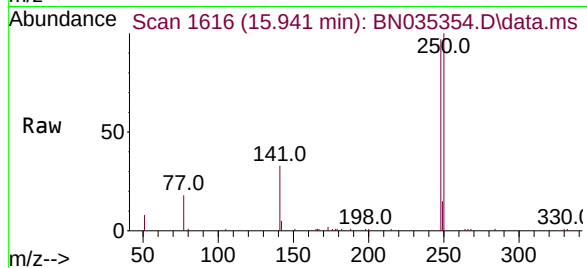




#21  
4-Bromophenyl-phenylether  
Concen: 1.566 ng  
RT: 15.941 min Scan# 1616  
Delta R.T. 0.000 min  
Lab File: BN035354.D  
Acq: 27 Nov 2024 17:57

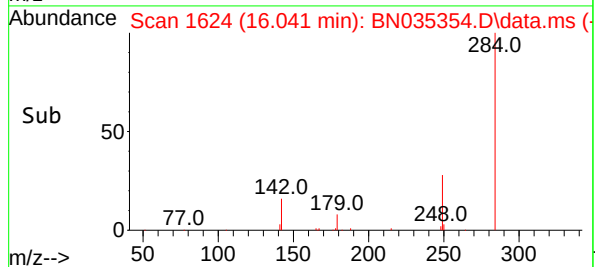
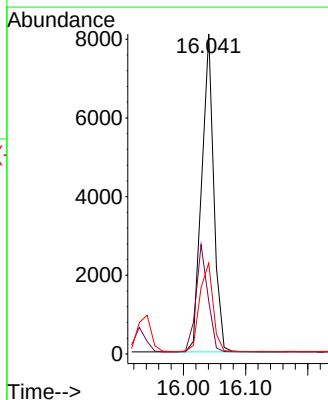
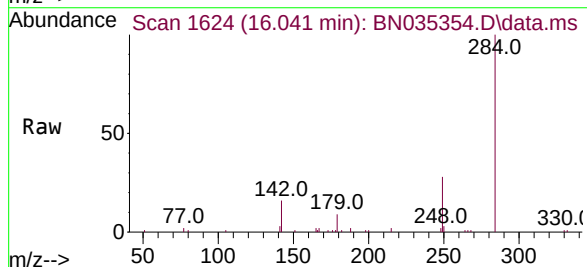
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC1.6

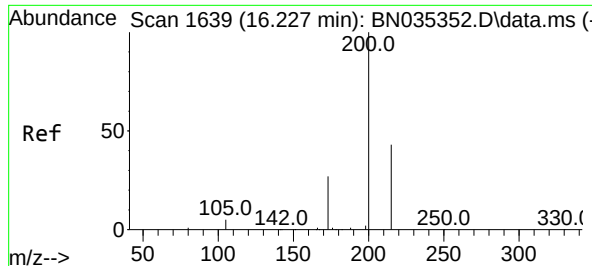
| Tgt Ion   | 248  | 250   | 141  |
|-----------|------|-------|------|
| Resp:     | 9493 |       |      |
| Ion Ratio | 100  | 102.7 | 33.7 |
| Lower     |      | 80.6  | 31.5 |
| Upper     |      | 120.8 | 47.3 |



#22  
Hexachlorobenzene  
Concen: 1.743 ng  
RT: 16.041 min Scan# 1624  
Delta R.T. 0.000 min  
Lab File: BN035354.D  
Acq: 27 Nov 2024 17:57

| Tgt Ion   | 284   | 142  | 249  |
|-----------|-------|------|------|
| Resp:     | 10969 |      |      |
| Ion Ratio | 100   | 33.5 | 30.6 |
| Lower     |       | 26.7 | 24.6 |
| Upper     |       | 40.1 | 36.8 |





#23

Atrazine

Concen: 1.221 ng

RT: 16.227 min Scan# 1639

Delta R.T. 0.000 min

Lab File: BN035354.D

Acq: 27 Nov 2024 17:57

Instrument :

BNA\_N

ClientSampleId :

SSTDICC1.6

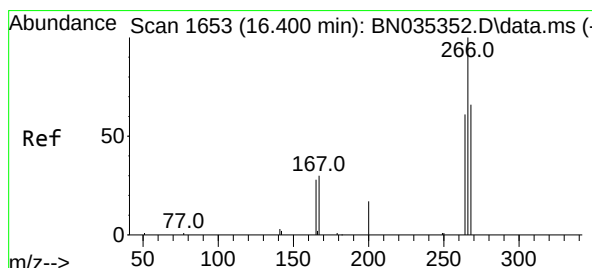
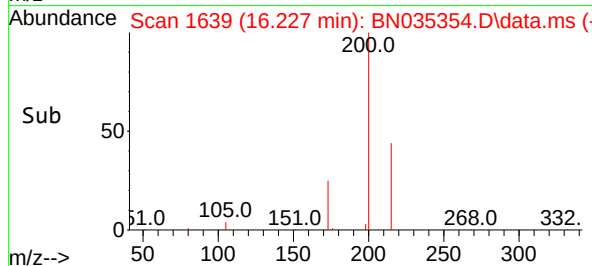
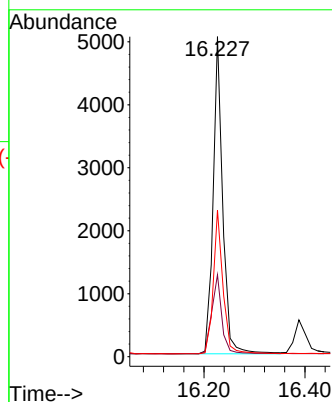
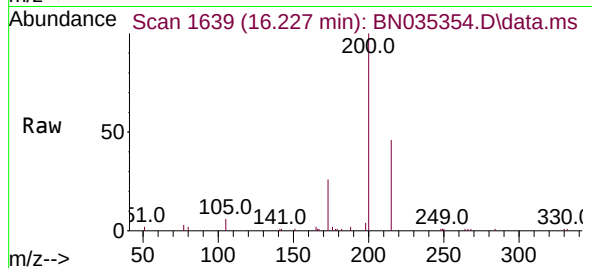
Tgt Ion:200 Resp: 6644

Ion Ratio Lower Upper

200 100

173 25.6 24.1 36.1

215 45.8 36.9 55.3



#24

Pentachlorophenol

Concen: 1.571 ng

RT: 16.388 min Scan# 1652

Delta R.T. -0.012 min

Lab File: BN035354.D

Acq: 27 Nov 2024 17:57

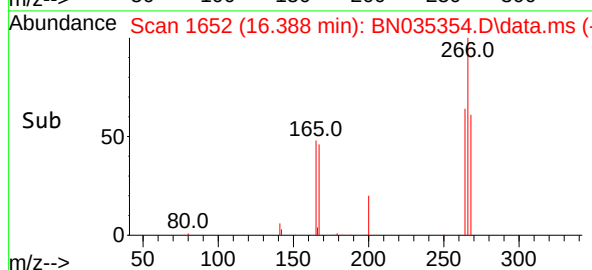
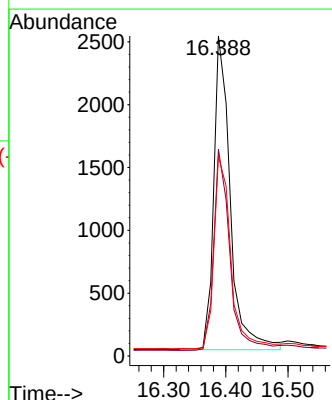
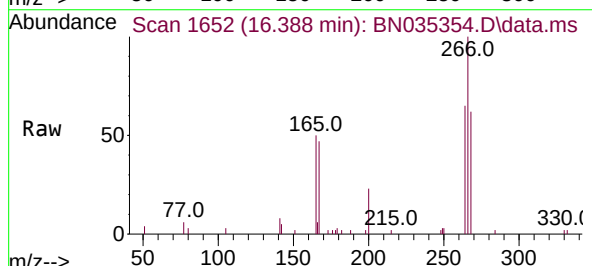
Tgt Ion:266 Resp: 4618

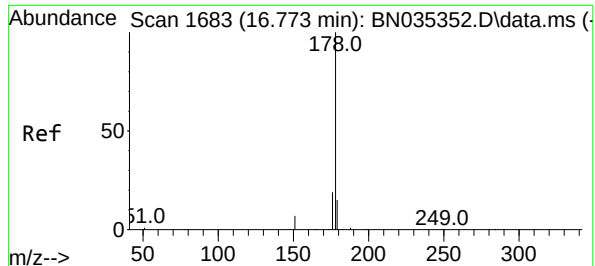
Ion Ratio Lower Upper

266 100

264 64.8 42.3 63.5#

268 62.9 43.3 64.9

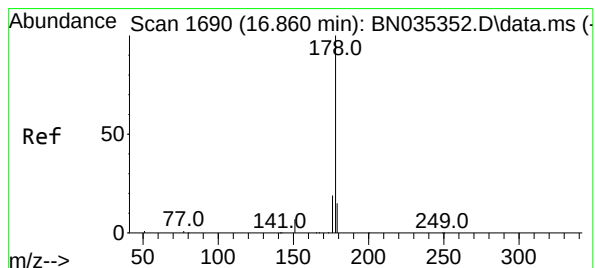
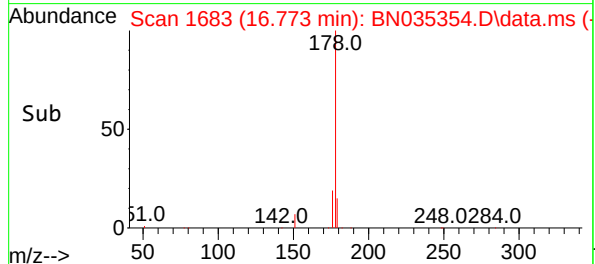
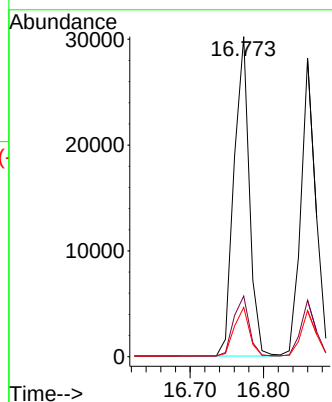
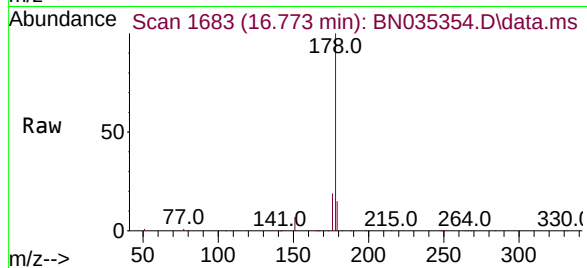




#25  
Phenanthrene  
Concen: 1.745 ng  
RT: 16.773 min Scan# 1683  
Delta R.T. 0.000 min  
Lab File: BN035354.D  
Acq: 27 Nov 2024 17:57

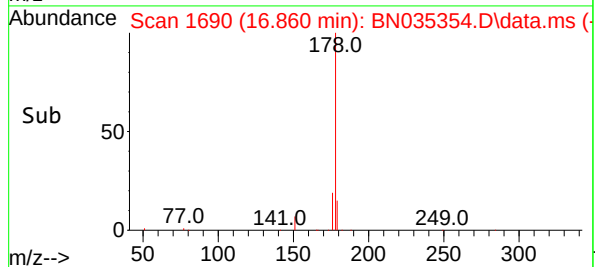
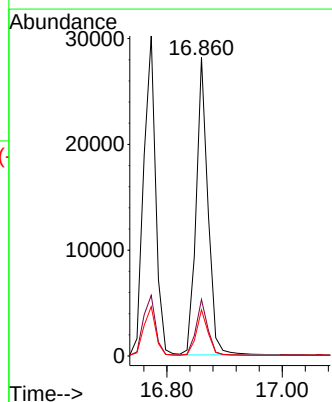
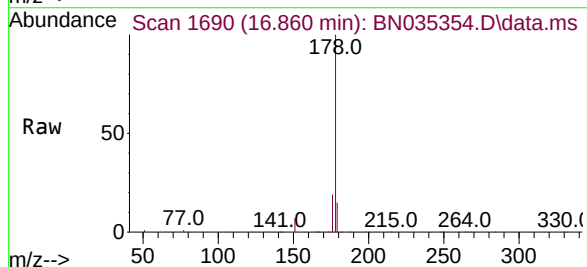
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC1.6

Tgt Ion:178 Resp: 43698  
Ion Ratio Lower Upper  
178 100  
176 19.2 15.4 23.2  
179 15.2 12.3 18.5

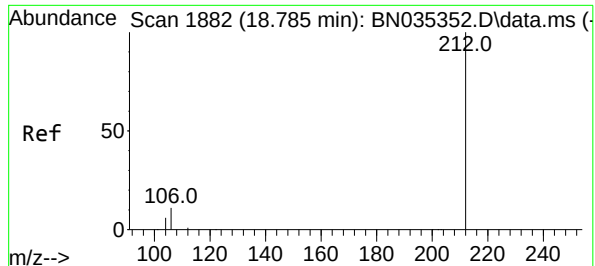


#26  
Anthracene  
Concen: 1.737 ng  
RT: 16.860 min Scan# 1690  
Delta R.T. 0.000 min  
Lab File: BN035354.D  
Acq: 27 Nov 2024 17:57

Tgt Ion:178 Resp: 39964  
Ion Ratio Lower Upper  
178 100  
176 18.7 15.0 22.6  
179 15.3 12.6 18.8



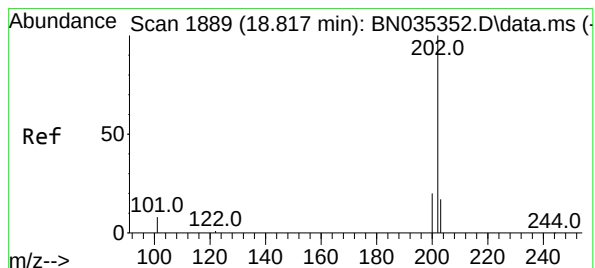
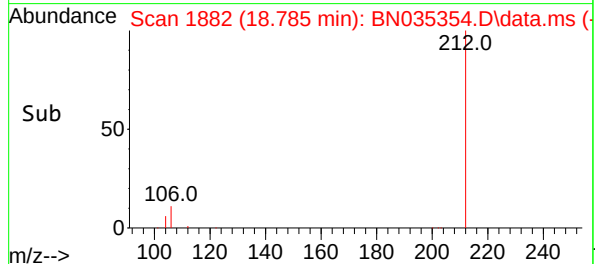
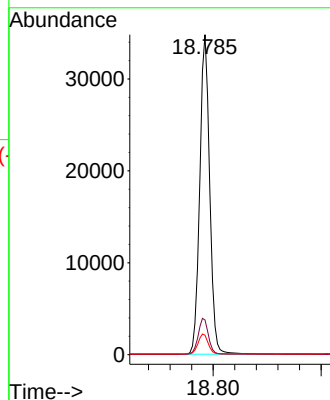
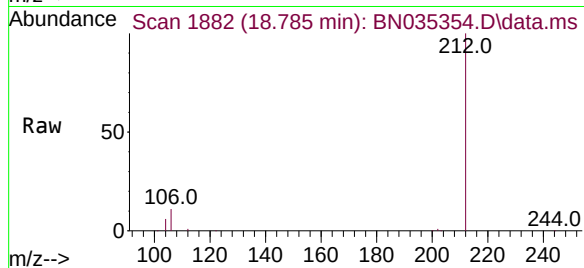




#27  
Fluoranthene-d10  
Concen: 1.521 ng  
RT: 18.785 min Scan# 1882  
Delta R.T. 0.000 min  
Lab File: BN035354.D  
Acq: 27 Nov 2024 17:57

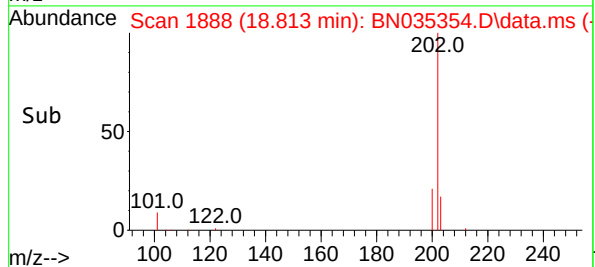
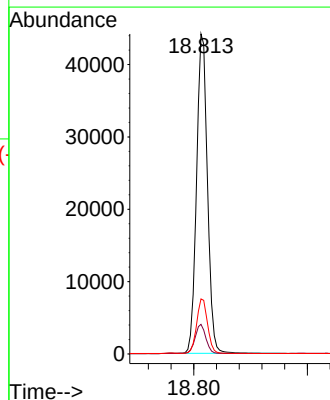
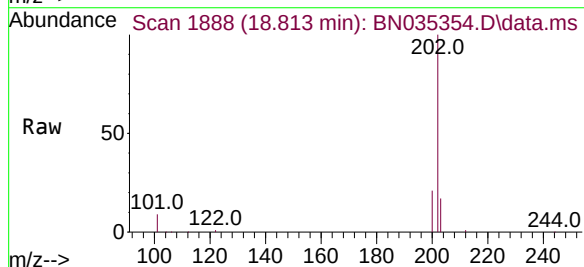
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC1.6

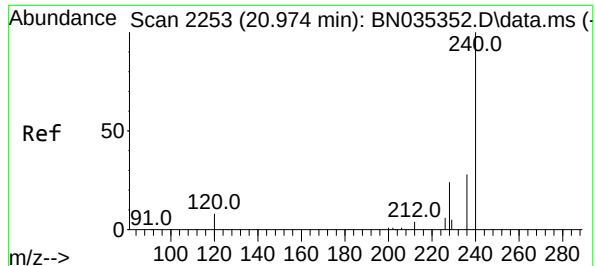
Tgt Ion:212 Resp: 44338  
Ion Ratio Lower Upper  
212 100  
106 11.4 9.2 13.8  
104 6.4 5.3 7.9



#28  
Fluoranthene  
Concen: 1.702 ng  
RT: 18.813 min Scan# 1888  
Delta R.T. -0.005 min  
Lab File: BN035354.D  
Acq: 27 Nov 2024 17:57

Tgt Ion:202 Resp: 58605  
Ion Ratio Lower Upper  
202 100  
101 9.2 7.4 11.0  
203 17.1 13.7 20.5





#29

Chrysene-d12

Concen: 0.400 ng

RT: 20.974 min Scan# 21

Delta R.T. 0.000 min

Lab File: BN035354.D

Acq: 27 Nov 2024 17:57

Instrument :

BNA\_N

ClientSampleId :

SSTDICC1.6

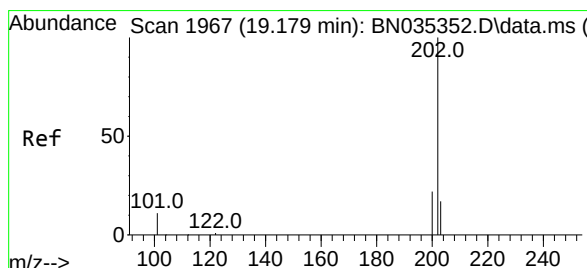
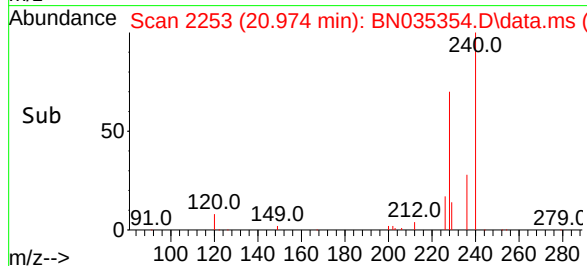
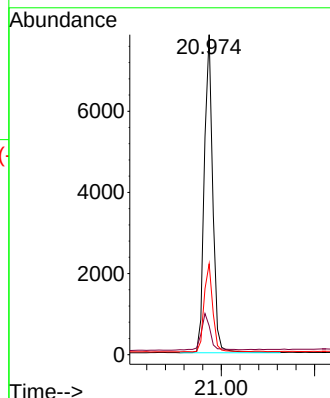
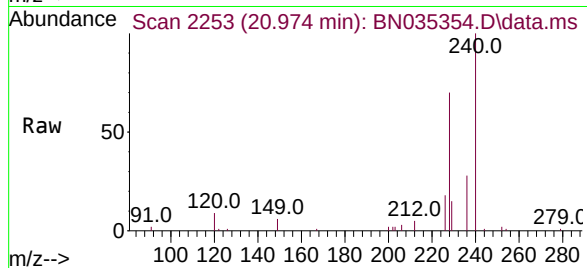
Tgt Ion:240 Resp: 9905

Ion Ratio Lower Upper

240 100

120 9.0 7.9 11.9

236 28.4 22.9 34.3



#30

Pyrene

Concen: 1.824 ng

RT: 19.180 min Scan# 1967

Delta R.T. 0.000 min

Lab File: BN035354.D

Acq: 27 Nov 2024 17:57

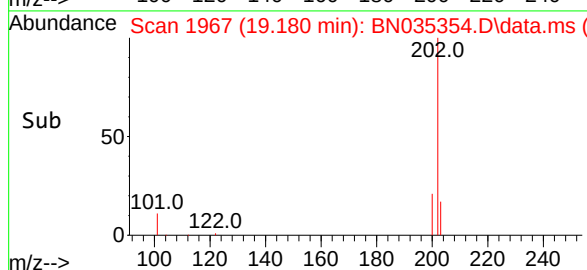
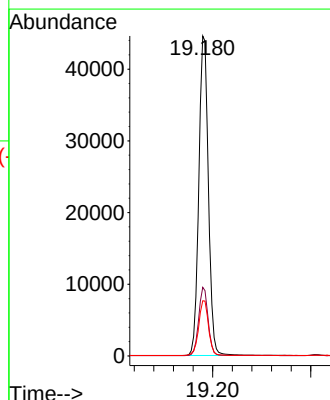
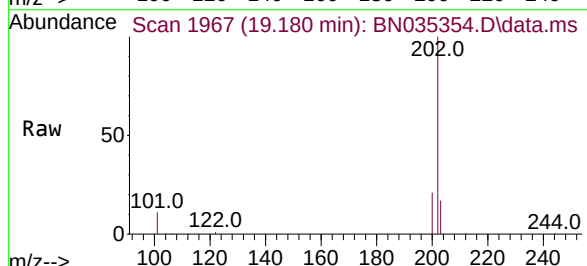
Tgt Ion:202 Resp: 60164

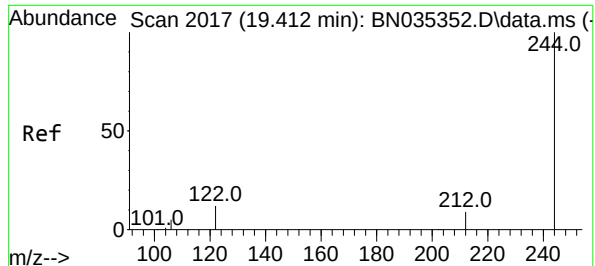
Ion Ratio Lower Upper

202 100

200 21.1 17.0 25.4

203 17.7 14.3 21.5

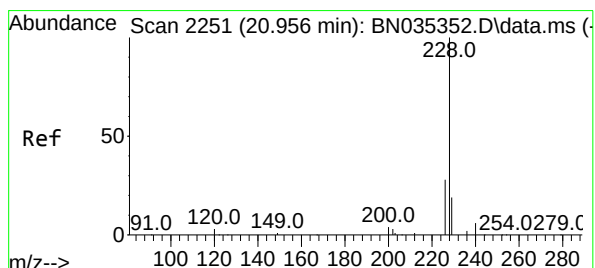
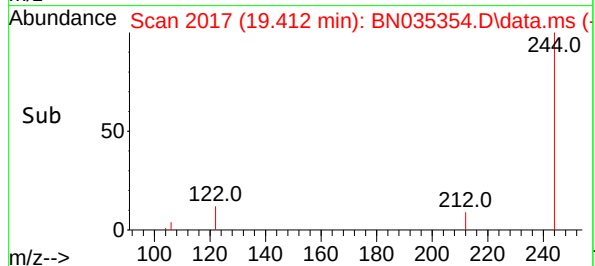
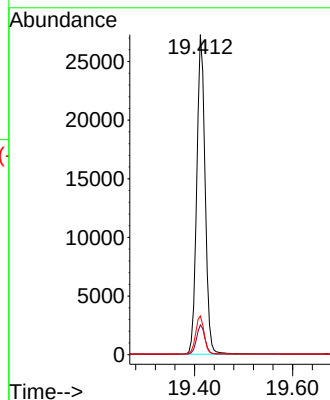
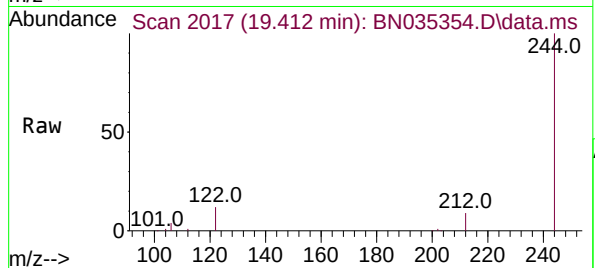




#31  
Terphenyl-d14  
Concen: 1.548 ng  
RT: 19.412 min Scan# 2017  
Delta R.T. 0.000 min  
Lab File: BN035354.D  
Acq: 27 Nov 2024 17:57

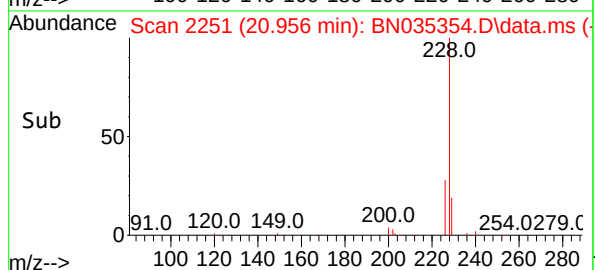
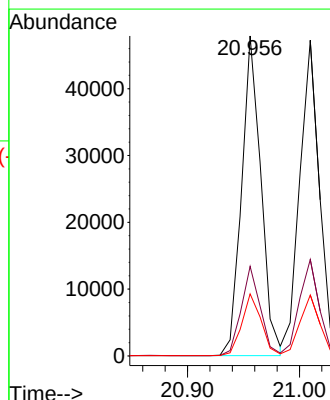
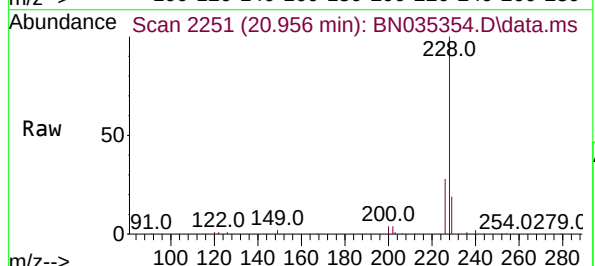
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC1.6

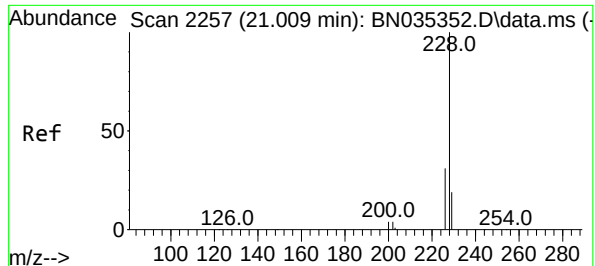
Tgt Ion:244 Resp: 32174  
Ion Ratio Lower Upper  
244 100  
212 9.3 8.1 12.1  
122 12.1 10.3 15.5



#32  
Benzo(a)anthracene  
Concen: 1.667 ng  
RT: 20.956 min Scan# 2251  
Delta R.T. 0.000 min  
Lab File: BN035354.D  
Acq: 27 Nov 2024 17:57

Tgt Ion:228 Resp: 57498  
Ion Ratio Lower Upper  
228 100  
226 28.0 22.5 33.7  
229 19.4 15.8 23.8





#33

Chrysene

Concen: 1.725 ng

RT: 21.010 min Scan# 21

Delta R.T. 0.000 min

Lab File: BN035354.D

Acq: 27 Nov 2024 17:57

Instrument :

BNA\_N

ClientSampleId :

SSTDICC1.6

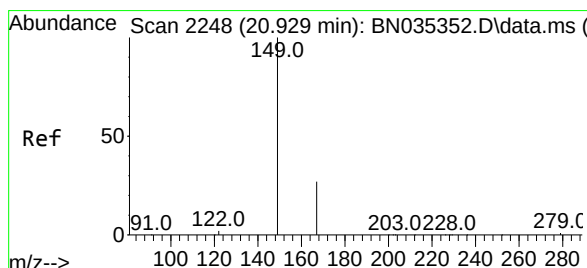
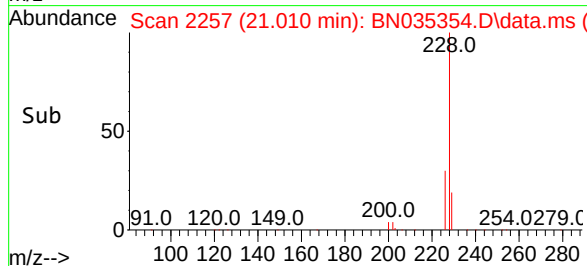
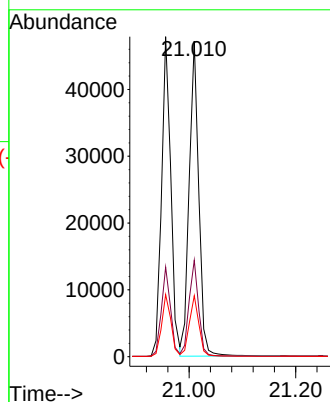
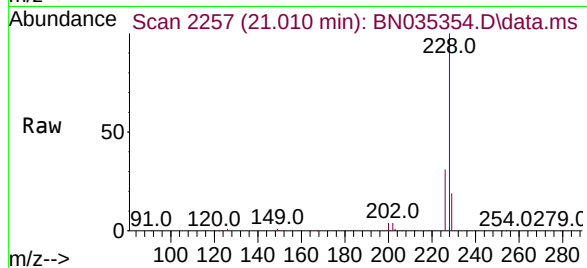
Tgt Ion:228 Resp: 58919

Ion Ratio Lower Upper

228 100

226 30.6 24.6 37.0

229 19.3 15.9 23.9



#34

Bis(2-ethylhexyl)phthalate

Concen: 1.138 ng

RT: 20.929 min Scan# 2248

Delta R.T. 0.000 min

Lab File: BN035354.D

Acq: 27 Nov 2024 17:57

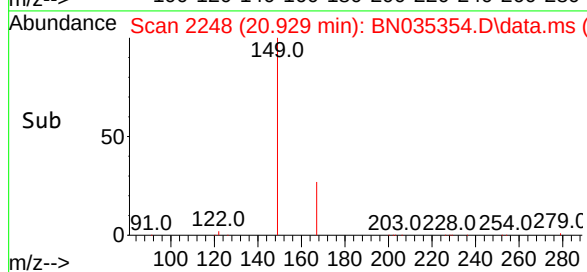
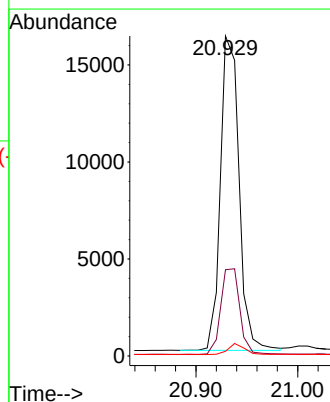
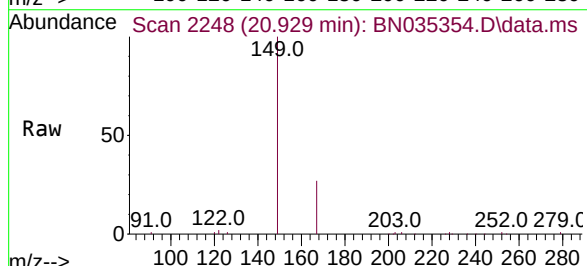
Tgt Ion:149 Resp: 20598

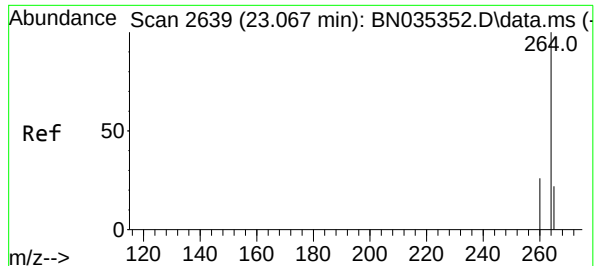
Ion Ratio Lower Upper

149 100

167 28.0 22.2 33.4

279 3.2 2.7 4.1





#35

Perylene-d12

Concen: 0.400 ng

RT: 23.067 min Scan# 2

Delta R.T. 0.000 min

Lab File: BN035354.D

Acq: 27 Nov 2024 17:57

Instrument :

BNA\_N

ClientSampleId :

SSTDICC1.6

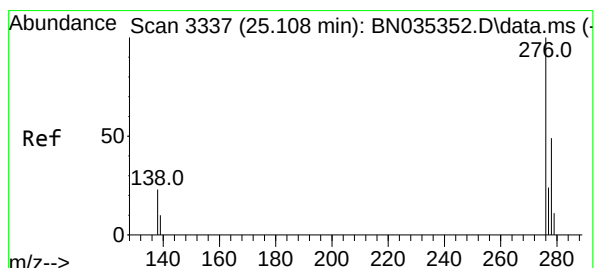
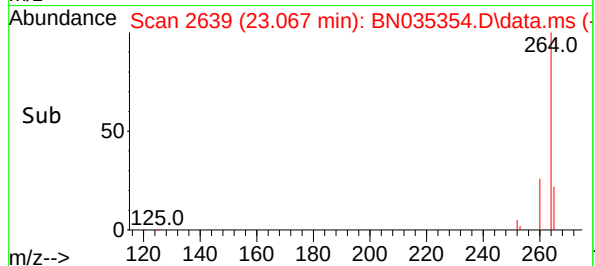
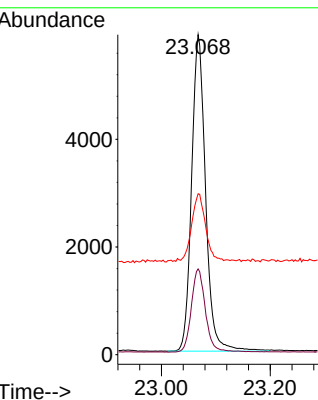
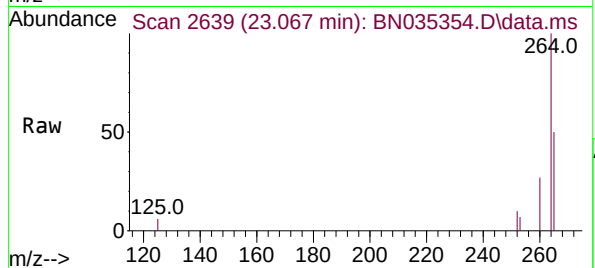
Tgt Ion:264 Resp: 10469

Ion Ratio Lower Upper

264 100

260 26.8 21.4 32.2

265 50.3 40.2 60.4



#36

Indeno(1,2,3-cd)pyrene

Concen: 1.665 ng

RT: 25.105 min Scan# 3336

Delta R.T. -0.003 min

Lab File: BN035354.D

Acq: 27 Nov 2024 17:57

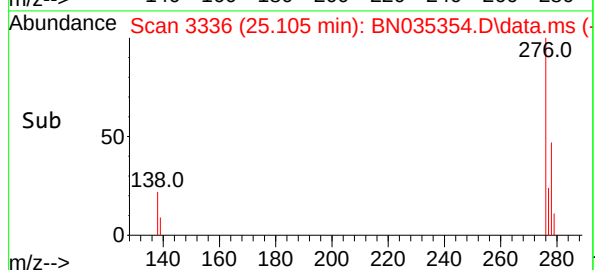
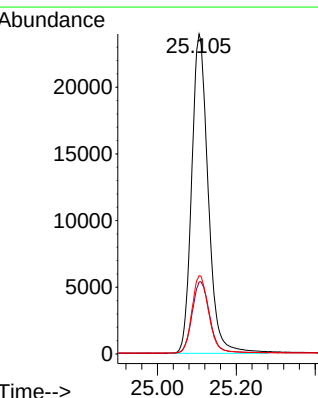
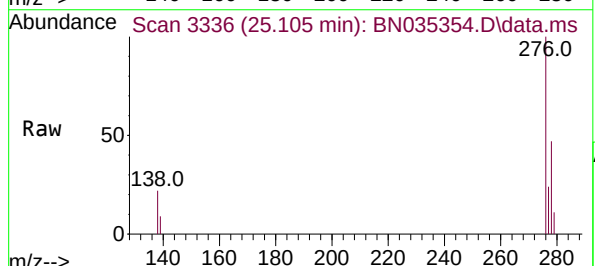
Tgt Ion:276 Resp: 69517

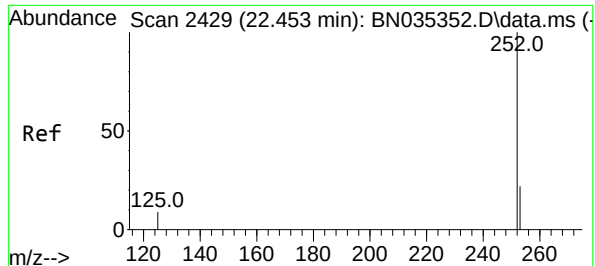
Ion Ratio Lower Upper

276 100

138 23.7 19.4 29.0

277 24.8 19.8 29.6





#37

Benzo(b)fluoranthene

Concen: 2.172 ng

RT: 22.454 min Scan# 2429

Delta R.T. 0.000 min

Lab File: BN035354.D

Acq: 27 Nov 2024 17:57

Instrument :

BNA\_N

ClientSampleId :

SSTDICC1.6

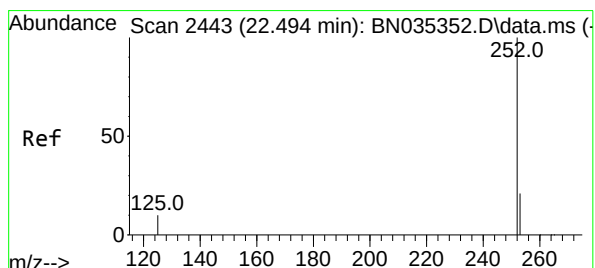
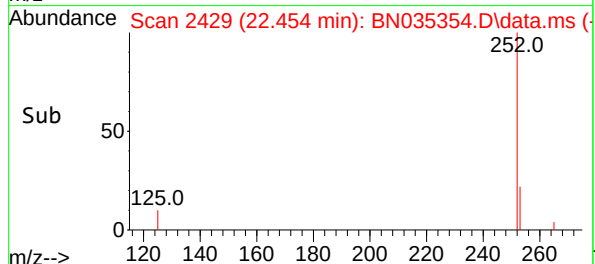
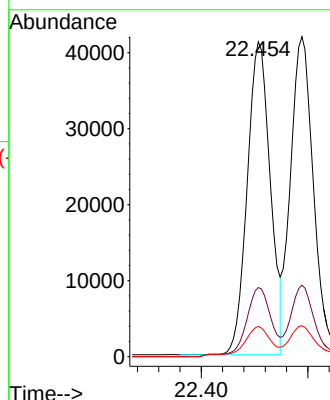
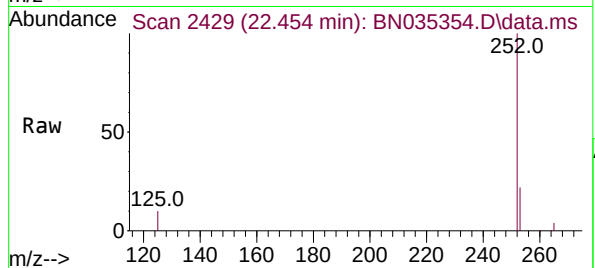
Tgt Ion:252 Resp: 76506

Ion Ratio Lower Upper

252 100

253 22.0 19.6 29.4

125 9.6 9.6 14.4



#38

Benzo(k)fluoranthene

Concen: 1.814 ng

RT: 22.494 min Scan# 2443

Delta R.T. 0.000 min

Lab File: BN035354.D

Acq: 27 Nov 2024 17:57

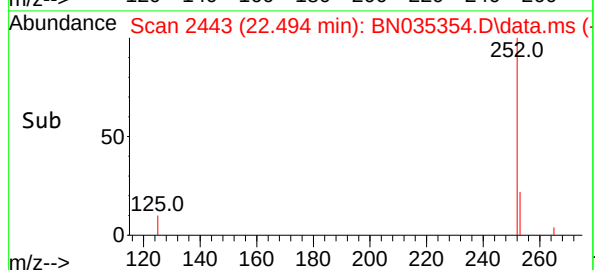
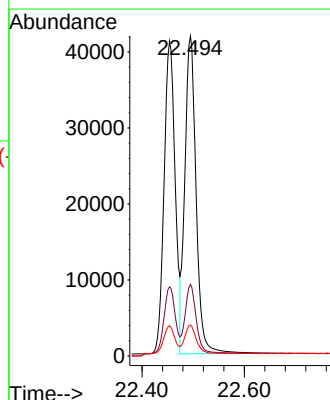
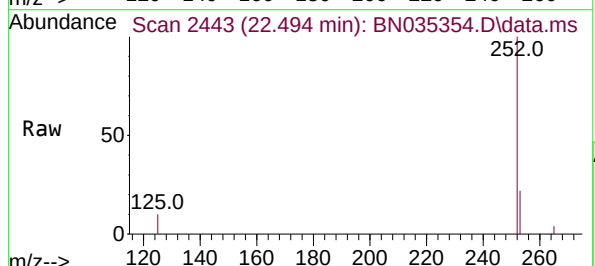
Tgt Ion:252 Resp: 63925

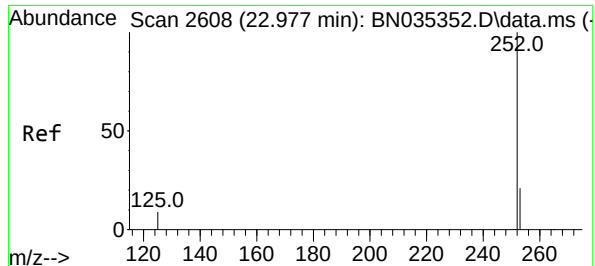
Ion Ratio Lower Upper

252 100

253 22.3 19.5 29.3

125 9.7 10.2 15.4#





#39

Benzo(a)pyrene

Concen: 1.697 ng

RT: 22.977 min Scan# 2608

Delta R.T. 0.000 min

Lab File: BN035354.D

Acq: 27 Nov 2024 17:57

Instrument :

BNA\_N

ClientSampleId :

SSTDICC1.6

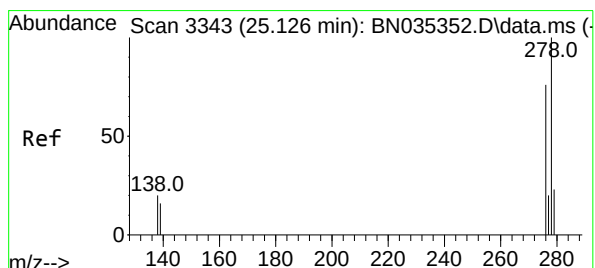
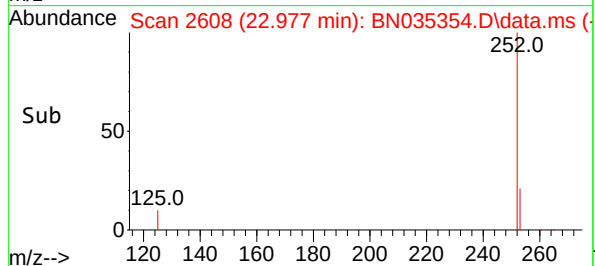
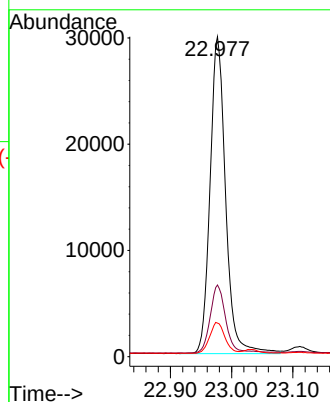
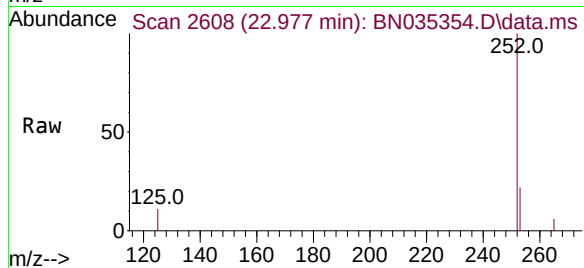
Tgt Ion:252 Resp: 52595

Ion Ratio Lower Upper

252 100

253 22.4 20.2 30.4

125 10.5 10.9 16.3#



#40

Dibenzo(a,h)anthracene

Concen: 1.664 ng

RT: 25.126 min Scan# 3343

Delta R.T. 0.000 min

Lab File: BN035354.D

Acq: 27 Nov 2024 17:57

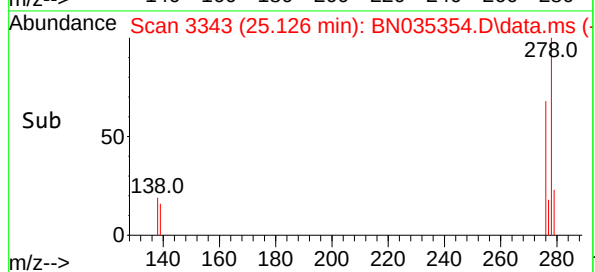
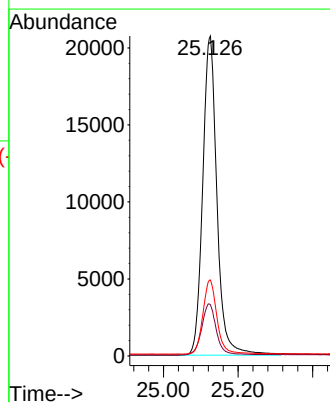
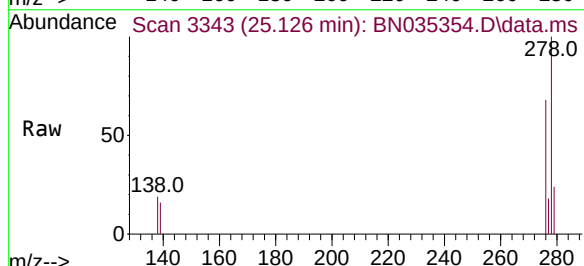
Tgt Ion:278 Resp: 55068

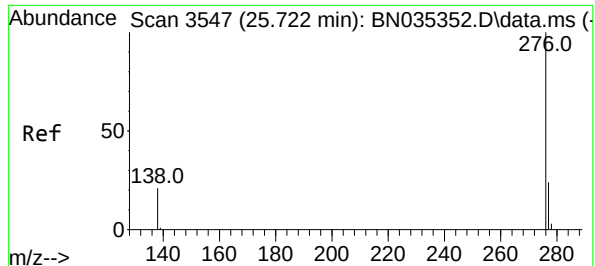
Ion Ratio Lower Upper

278 100

139 16.0 14.2 21.4

279 23.8 20.5 30.7





#41

Benzo(g,h,i)perylene

Concen: 1.618 ng

RT: 25.719 min Scan# 3

Delta R.T. -0.003 min

Lab File: BN035354.D

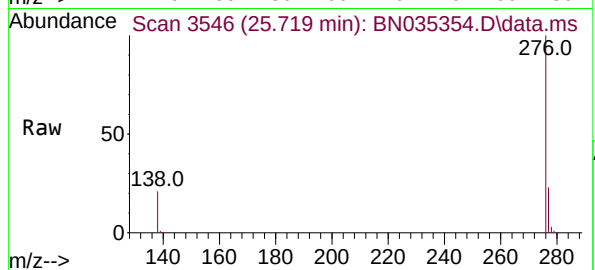
Acq: 27 Nov 2024 17:57

Instrument :

BNA\_N

ClientSampleId :

SSTDICC1.6



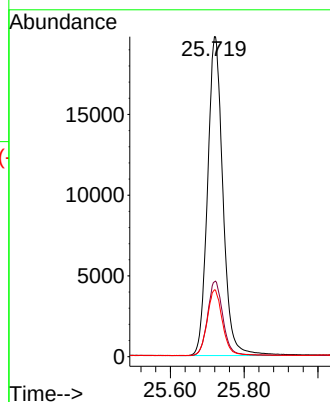
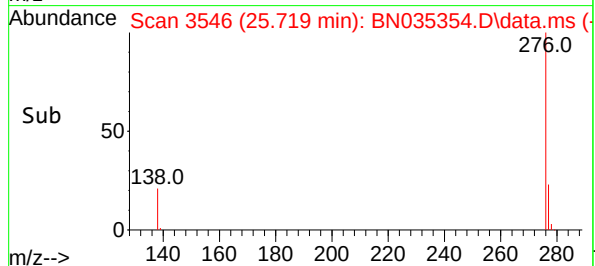
Tgt Ion:276 Resp: 56947

Ion Ratio Lower Upper

276 100

277 23.4 19.9 29.9

138 20.9 17.8 26.8





Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN112724\  
 Data File : BN035355.D  
 Acq On : 27 Nov 2024 18:33  
 Operator : RC/JU  
 Sample : SSTDICC3.2  
 Misc :  
 ALS Vial : 7 Sample Multiplier: 1

Instrument :  
 BNA\_N  
 ClientSampleId :  
 SSTDICC3.2

Quant Time: Nov 27 22:53:46 2024  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\8270-SIM-BN112724.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Wed Nov 27 22:48:24 2024  
 Response via : Initial Calibration

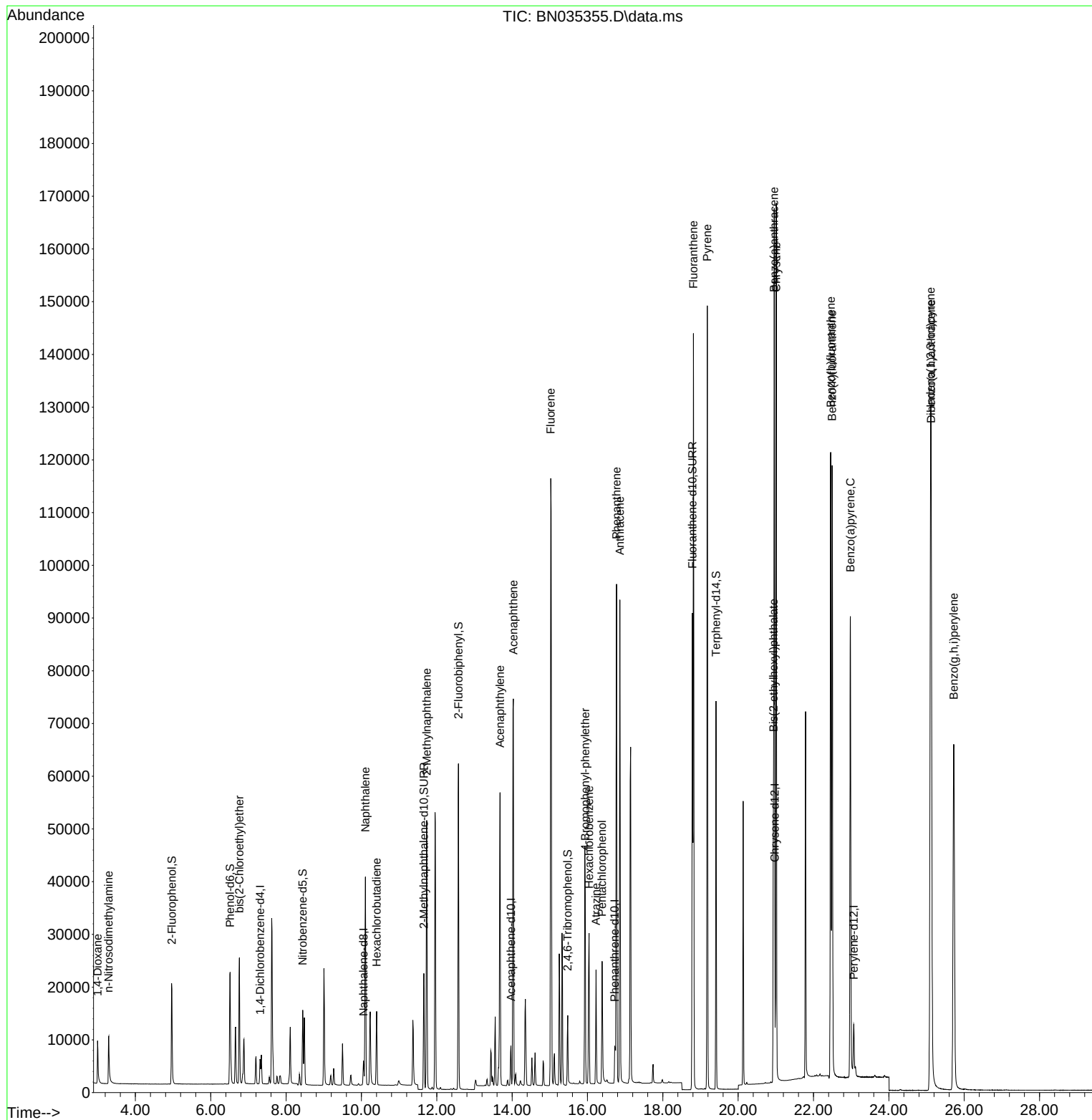
| Compound                      | R.T.   | QIon | Response | Conc  | Units | Dev(Min) |
|-------------------------------|--------|------|----------|-------|-------|----------|
| -----                         |        |      |          |       |       |          |
| Internal Standards            |        |      |          |       |       |          |
| 1) 1,4-Dichlorobenzene-d4     | 7.308  | 152  | 2226     | 0.400 | ng    | 0.00     |
| 7) Naphthalene-d8             | 10.052 | 136  | 5857     | 0.400 | ng    | 0.00     |
| 13) Acenaphthene-d10          | 13.967 | 164  | 4307     | 0.400 | ng    | 0.00     |
| 19) Phenanthrene-d10          | 16.723 | 188  | 10513    | 0.400 | ng    | #-0.01   |
| 29) Chrysene-d12              | 20.974 | 240  | 11206    | 0.400 | ng    | 0.00     |
| 35) Perylene-d12              | 23.067 | 264  | 11643    | 0.400 | ng    | 0.00     |
|                               |        |      |          |       |       |          |
| System Monitoring Compounds   |        |      |          |       |       |          |
| 4) 2-Fluorophenol             | 4.968  | 112  | 16991    | 3.007 | ng    | 0.00     |
| 5) Phenol-d6                  | 6.513  | 99   | 21633    | 3.053 | ng    | 0.00     |
| 8) Nitrobenzene-d5            | 8.440  | 82   | 11759    | 2.307 | ng    | 0.00     |
| 11) 2-Methylnaphthalene-d10   | 11.656 | 152  | 29957    | 2.870 | ng    | 0.00     |
| 14) 2,4,6-Tribromophenol      | 15.475 | 330  | 10700    | 3.444 | ng    | 0.00     |
| 15) 2-Fluorobiphenyl          | 12.574 | 172  | 52048    | 2.976 | ng    | 0.00     |
| 27) Fluoranthene-d10          | 18.785 | 212  | 95675    | 2.971 | ng    | 0.00     |
| 31) Terphenyl-d14             | 19.412 | 244  | 69164    | 2.941 | ng    | 0.00     |
|                               |        |      |          |       |       |          |
| Target Compounds              |        |      |          |       |       | Qvalue   |
| 2) 1,4-Dioxane                | 2.996  | 88   | 6360     | 3.146 | ng    | 99       |
| 3) n-Nitrosodimethylamine     | 3.285  | 42   | 5524     | 2.932 | ng    | # 95     |
| 6) bis(2-Chloroethyl)ether    | 6.759  | 93   | 17762    | 3.339 | ng    | 99       |
| 9) Naphthalene                | 10.105 | 128  | 49151    | 3.214 | ng    | 97       |
| 10) Hexachlorobutadiene       | 10.404 | 225  | 11039    | 2.463 | ng    | # 100    |
| 12) 2-Methylnaphthalene       | 11.732 | 142  | 36121    | 3.202 | ng    | 98       |
| 16) Acenaphthylene            | 13.679 | 152  | 60734    | 3.300 | ng    | 99       |
| 17) Acenaphthene              | 14.031 | 154  | 38676    | 3.206 | ng    | 99       |
| 18) Fluorene                  | 15.026 | 166  | 55613    | 3.134 | ng    | 99       |
| 21) 4-Bromophenyl-phenylether | 15.941 | 248  | 20321    | 3.034 | ng    | # 93     |
| 22) Hexachlorobenzene         | 16.040 | 284  | 23349    | 3.359 | ng    | 99       |
| 23) Atrazine                  | 16.227 | 200  | 15072    | 2.508 | ng    | 96       |
| 24) Pentachlorophenol         | 16.388 | 266  | 11439    | 3.522 | ng    | 86       |
| 25) Phenanthrene              | 16.773 | 178  | 94243    | 3.406 | ng    | 100      |
| 26) Anthracene                | 16.860 | 178  | 87657    | 3.449 | ng    | 99       |
| 28) Fluoranthene              | 18.812 | 202  | 125901   | 3.309 | ng    | 100      |
| 30) Pyrene                    | 19.179 | 202  | 129105   | 3.460 | ng    | 100      |
| 32) Benzo(a)anthracene        | 20.956 | 228  | 126517   | 3.242 | ng    | 99       |
| 33) Chrysene                  | 21.009 | 228  | 127439   | 3.297 | ng    | 99       |
| 34) Bis(2-ethylhexyl)phtha... | 20.938 | 149  | 46251    | 2.259 | ng    | 99       |
| 36) Indeno(1,2,3-cd)pyrene    | 25.108 | 276  | 150433   | 3.239 | ng    | 99       |
| 37) Benzo(b)fluoranthene      | 22.456 | 252  | 136261   | 3.478 | ng    | # 94     |
| 38) Benzo(k)fluoranthene      | 22.494 | 252  | 134789   | 3.439 | ng    | # 93     |
| 39) Benzo(a)pyrene            | 22.980 | 252  | 114719   | 3.328 | ng    | # 93     |
| 40) Dibenzo(a,h)anthracene    | 25.123 | 278  | 119216   | 3.240 | ng    | 96       |
| 41) Benzo(g,h,i)perylene      | 25.722 | 276  | 123841   | 3.164 | ng    | 97       |
| -----                         |        |      |          |       |       |          |

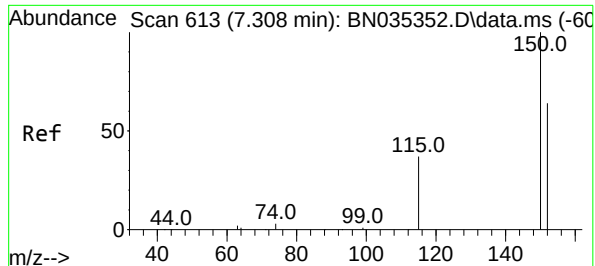
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN112724\  
Data File : BN035355.D  
Acq On : 27 Nov 2024 18:33  
Operator : RC/JU  
Sample : SSTDICC3.2  
Misc :  
ALS Vial : 7 Sample Multiplier: 1

Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC3.2

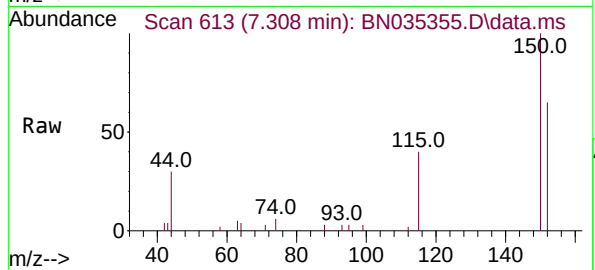
Quant Time: Nov 27 22:53:46 2024  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\8270-SIM-BN112724.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Wed Nov 27 22:48:24 2024  
Response via : Initial Calibration



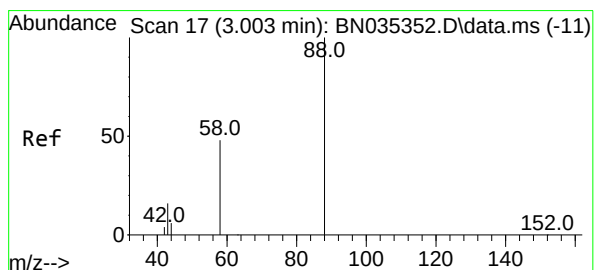
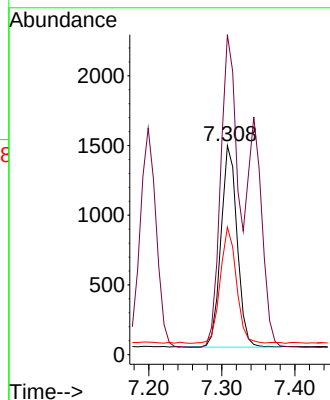
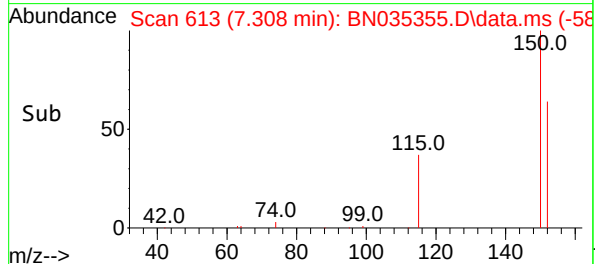


#1  
1,4-Dichlorobenzene-d4  
Concen: 0.400 ng  
RT: 7.308 min Scan# 61  
Delta R.T. -0.000 min  
Lab File: BN035355.D  
Acq: 27 Nov 2024 18:33

Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC3.2

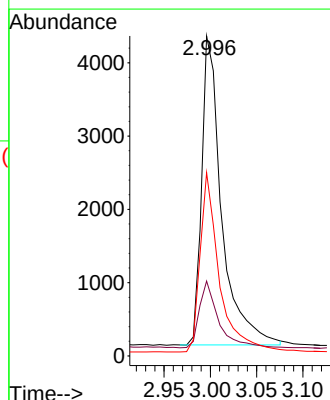
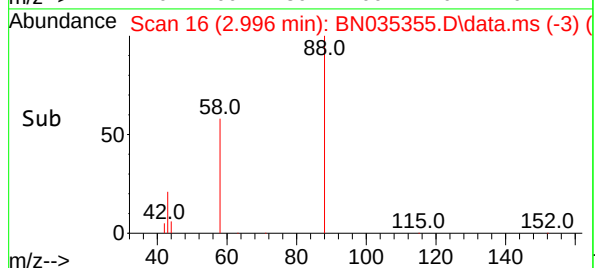
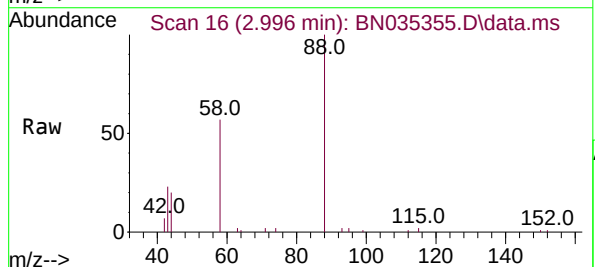


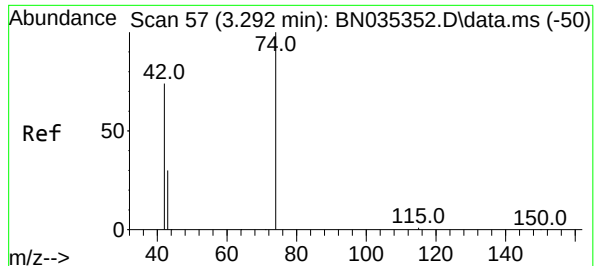
Tgt Ion:152 Resp: 2226  
Ion Ratio Lower Upper  
152 100  
150 153.0 124.0 186.0  
115 61.0 49.6 74.4



#2  
1,4-Dioxane  
Concen: 3.146 ng  
RT: 2.996 min Scan# 16  
Delta R.T. -0.007 min  
Lab File: BN035355.D  
Acq: 27 Nov 2024 18:33

Tgt Ion: 88 Resp: 6360  
Ion Ratio Lower Upper  
88 100  
43 20.6 17.2 25.8  
58 55.4 44.5 66.7

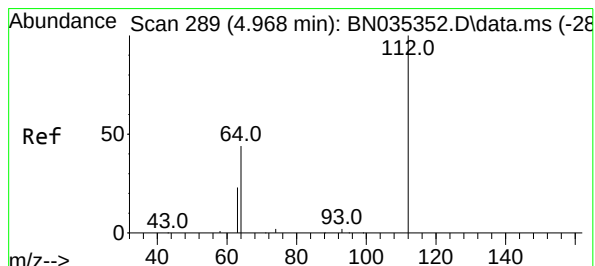
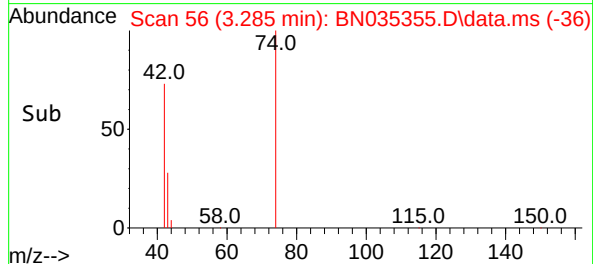
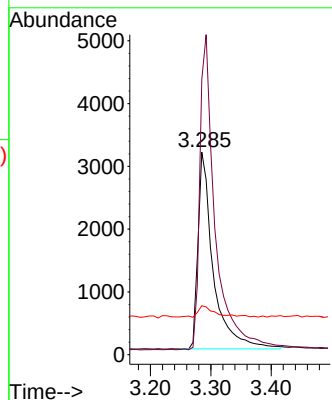
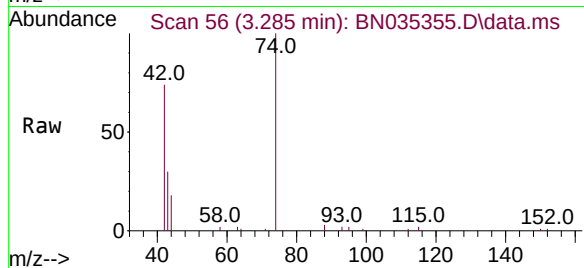




#3  
n-Nitrosodimethylamine  
Concen: 2.932 ng  
RT: 3.285 min Scan# 50  
Delta R.T. -0.007 min  
Lab File: BN035355.D  
Acq: 27 Nov 2024 18:33

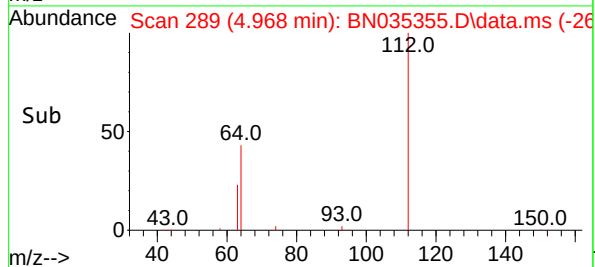
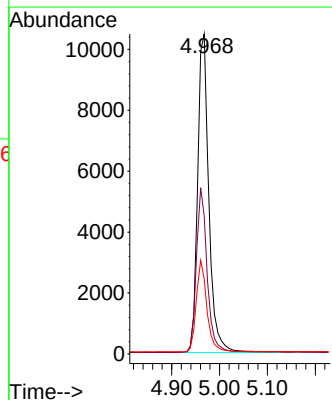
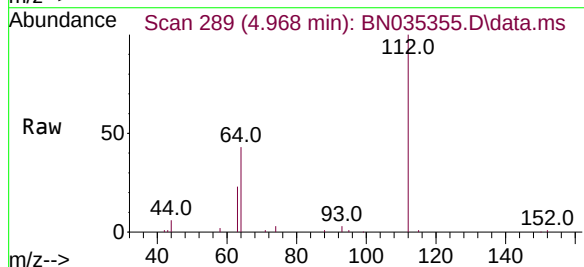
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC3.2

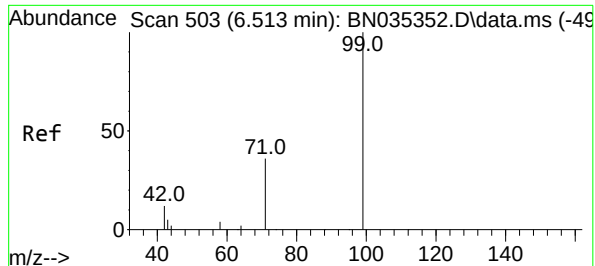
Tgt Ion: 42 Resp: 5524  
Ion Ratio Lower Upper  
42 100  
74 162.0 124.9 187.3  
44 6.4 2.2 3.4#



#4  
2-Fluorophenol  
Concen: 3.007 ng  
RT: 4.968 min Scan# 289  
Delta R.T. -0.000 min  
Lab File: BN035355.D  
Acq: 27 Nov 2024 18:33

Tgt Ion: 112 Resp: 16991  
Ion Ratio Lower Upper  
112 100  
64 49.7 39.8 59.8  
63 27.1 21.0 31.6

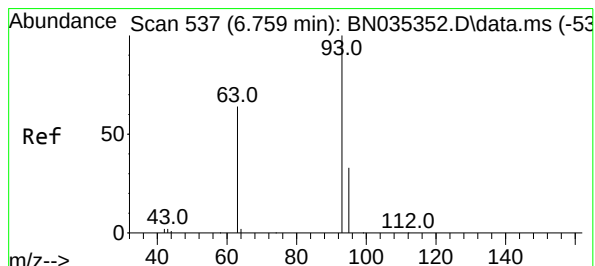
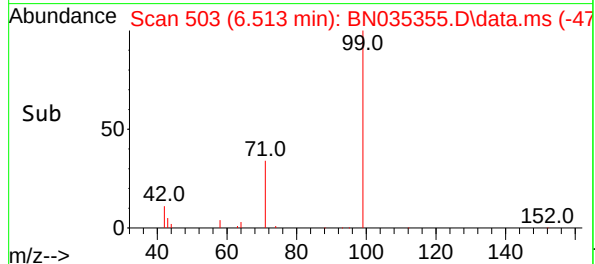
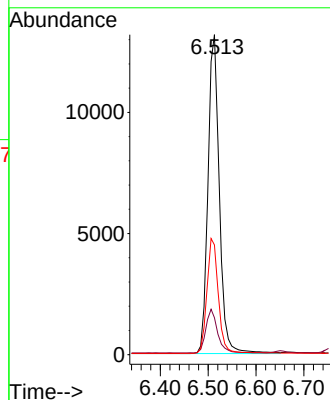
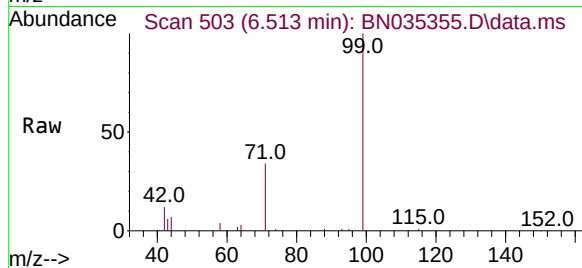




#5  
Phenol-d6  
Concen: 3.053 ng  
RT: 6.513 min Scan# 503  
Delta R.T. -0.000 min  
Lab File: BN035355.D  
Acq: 27 Nov 2024 18:33

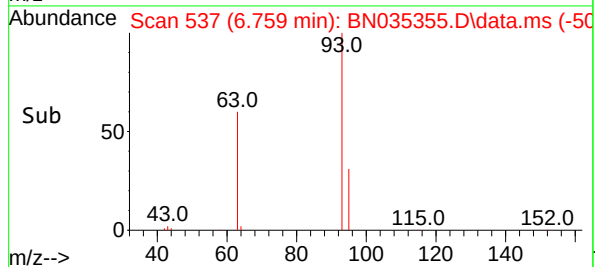
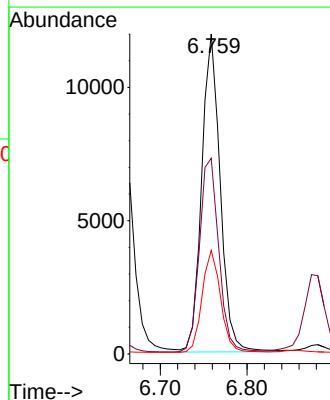
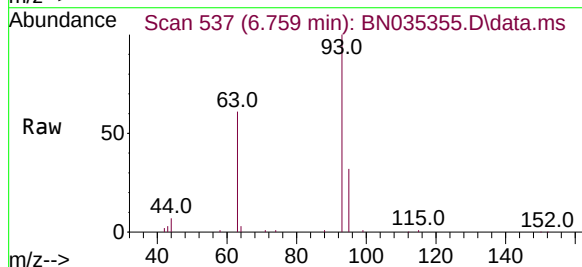
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC3.2

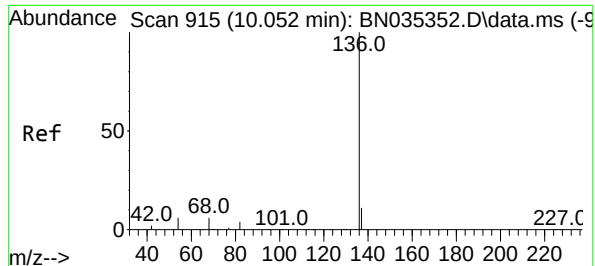
| Tgt Ion: | 99   | Ratio | 100  | Lower | 11.4 | Upper | 17.2 |
|----------|------|-------|------|-------|------|-------|------|
| 42       | 14.1 | 11.4  | 17.2 |       |      |       |      |
| 71       | 36.5 | 29.3  | 43.9 |       |      |       |      |



#6  
bis(2-Chloroethyl)ether  
Concen: 3.339 ng  
RT: 6.759 min Scan# 537  
Delta R.T. -0.000 min  
Lab File: BN035355.D  
Acq: 27 Nov 2024 18:33

| Tgt Ion: | 93   | Ratio | 100  | Lower | 50.4 | Upper | 75.6 |
|----------|------|-------|------|-------|------|-------|------|
| 63       | 63.6 | 50.4  | 75.6 |       |      |       |      |
| 95       | 32.0 | 25.7  | 38.5 |       |      |       |      |

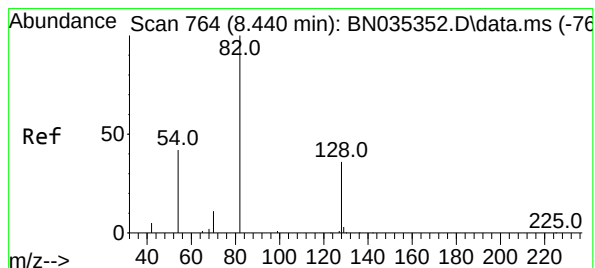
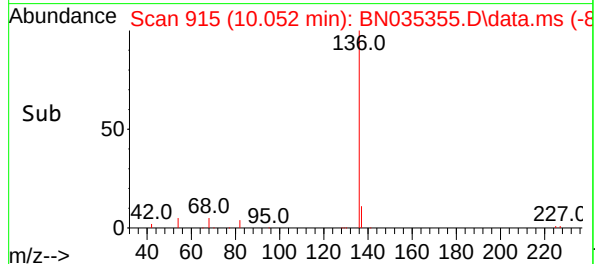
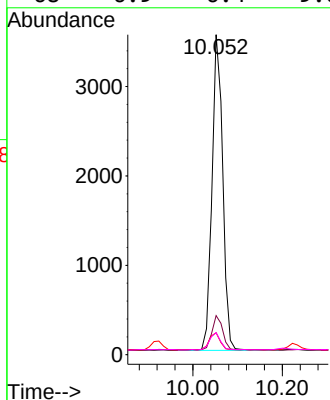
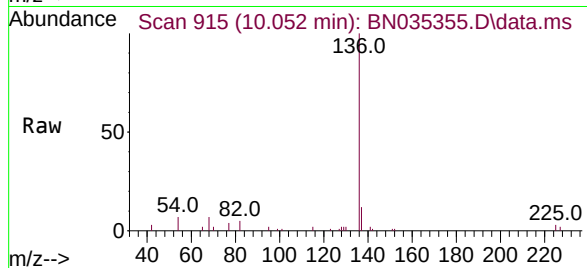




#7  
Naphthalene-d8  
Concen: 0.400 ng  
RT: 10.052 min Scan# 915  
Delta R.T. -0.000 min  
Lab File: BN035355.D  
Acq: 27 Nov 2024 18:33

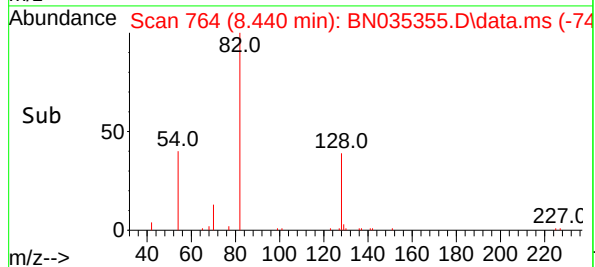
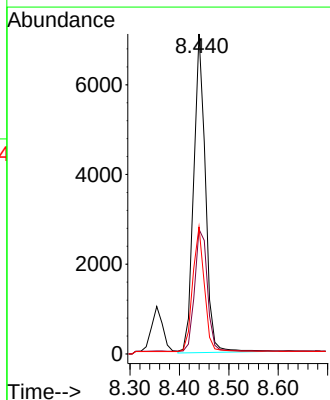
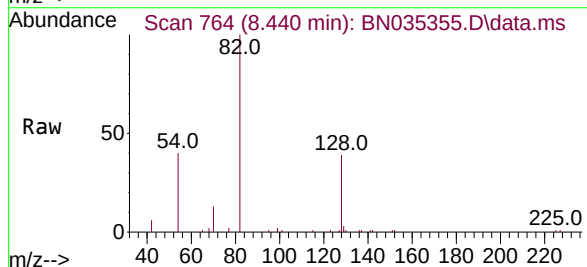
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC3.2

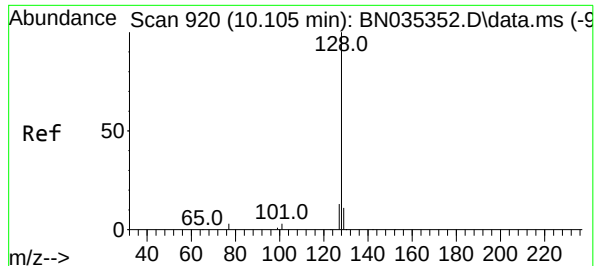
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 136   | Resp: | 5857  |
| Ion      | Ratio | Lower | Upper |
| 136      | 100   |       |       |
| 137      | 12.2  | 10.2  | 15.2  |
| 54       | 6.9   | 6.1   | 9.1   |
| 68       | 6.9   | 6.4   | 9.6   |



#8  
Nitrobenzene-d5  
Concen: 2.307 ng  
RT: 8.440 min Scan# 764  
Delta R.T. -0.000 min  
Lab File: BN035355.D  
Acq: 27 Nov 2024 18:33

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 82    | Resp: | 11759 |
| Ion      | Ratio | Lower | Upper |
| 82       | 100   |       |       |
| 128      | 39.0  | 33.4  | 50.0  |
| 54       | 39.7  | 36.7  | 55.1  |

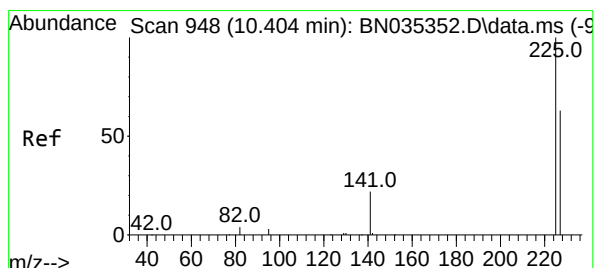
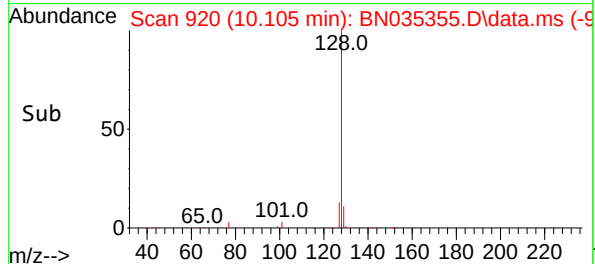
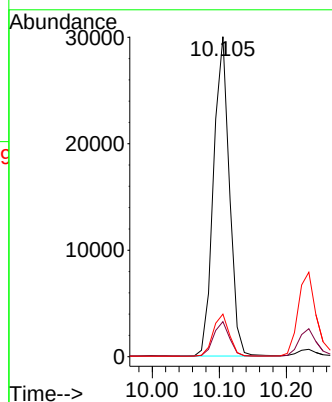
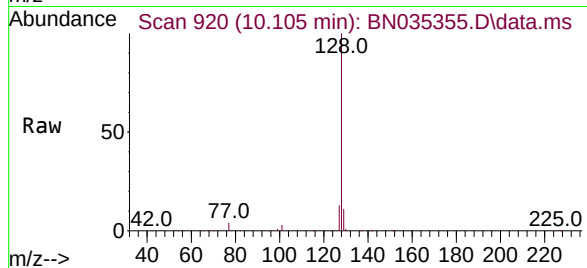




#9  
Naphthalene  
Concen: 3.214 ng  
RT: 10.105 min Scan# 91  
Delta R.T. -0.000 min  
Lab File: BN035355.D  
Acq: 27 Nov 2024 18:33

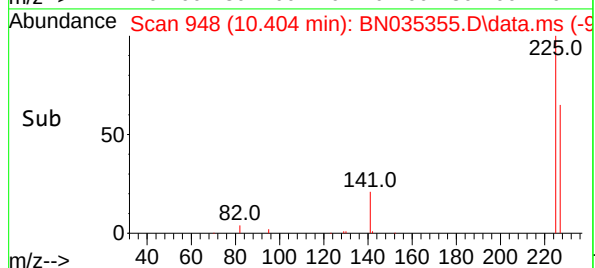
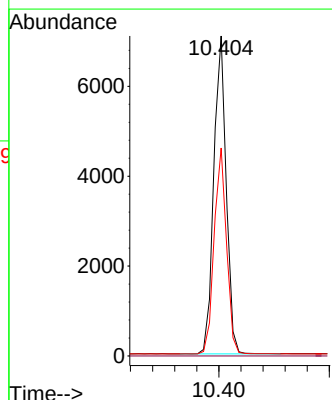
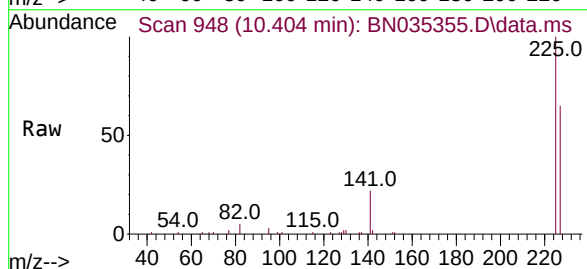
Instrument :  
BNA\_N  
ClientSampleId :  
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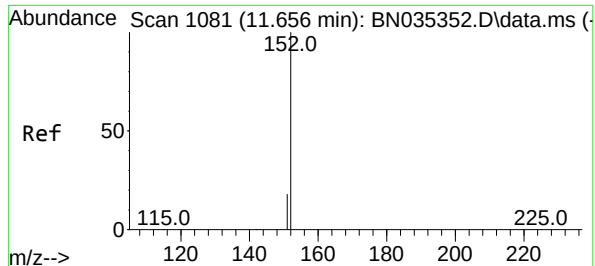
Tgt Ion:128 Resp: 49151  
Ion Ratio Lower Upper  
128 100  
129 11.0 9.8 14.6  
127 13.3 11.4 17.2



#10  
Hexachlorobutadiene  
Concen: 2.463 ng  
RT: 10.404 min Scan# 948  
Delta R.T. -0.000 min  
Lab File: BN035355.D  
Acq: 27 Nov 2024 18:33

Tgt Ion:225 Resp: 11039  
Ion Ratio Lower Upper  
225 100  
223 0.0 0.0 0.0  
227 64.4 51.3 76.9

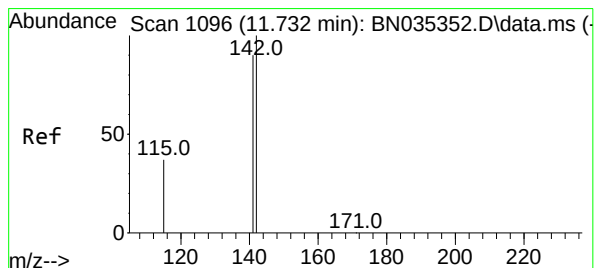
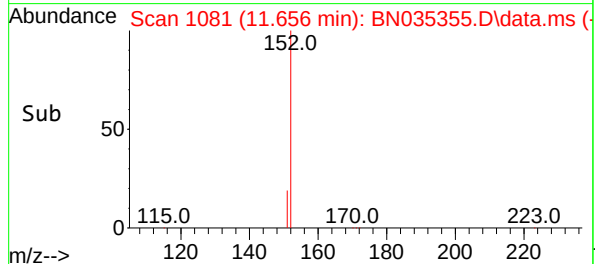
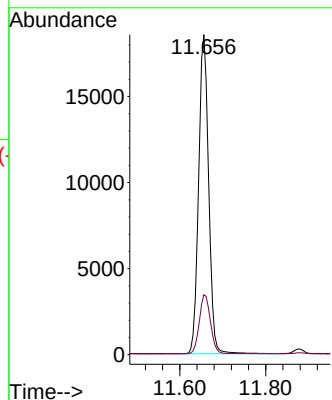
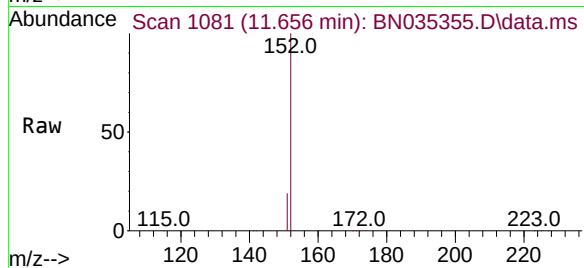




#11  
2-Methylnaphthalene-d10  
Concen: 2.870 ng  
RT: 11.656 min Scan# 1081  
Delta R.T. -0.000 min  
Lab File: BN035355.D  
Acq: 27 Nov 2024 18:33

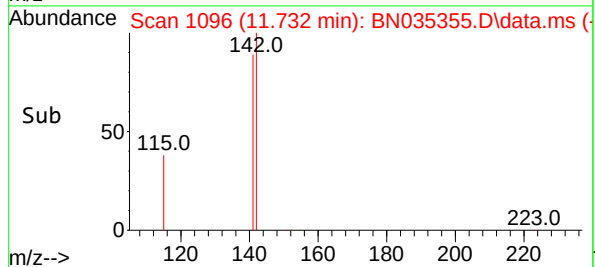
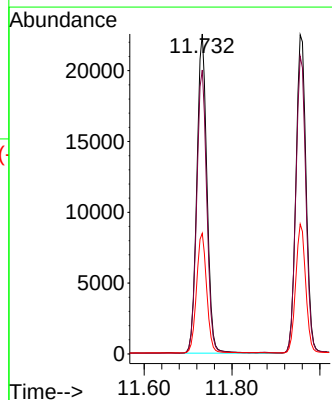
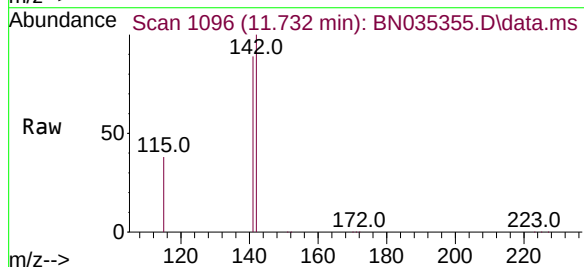
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC3.2

Tgt Ion:152 Resp: 29957  
Ion Ratio Lower Upper  
152 100  
151 20.6 16.6 25.0

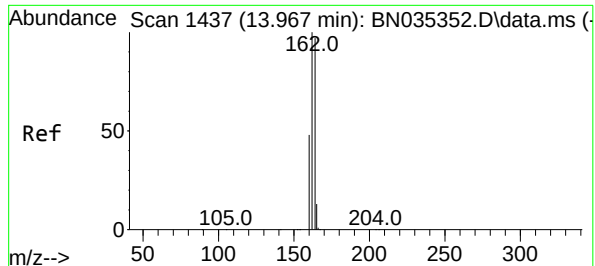


#12  
2-Methylnaphthalene  
Concen: 3.202 ng  
RT: 11.732 min Scan# 1096  
Delta R.T. -0.000 min  
Lab File: BN035355.D  
Acq: 27 Nov 2024 18:33

Tgt Ion:142 Resp: 36121  
Ion Ratio Lower Upper  
142 100  
141 88.7 72.2 108.4  
115 37.7 31.4 47.0



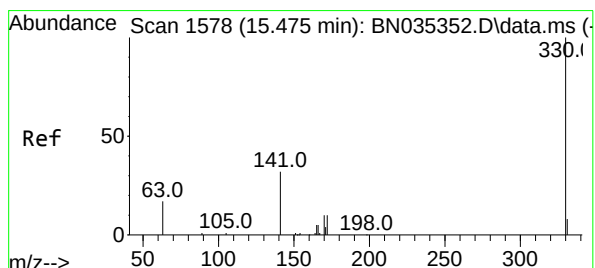
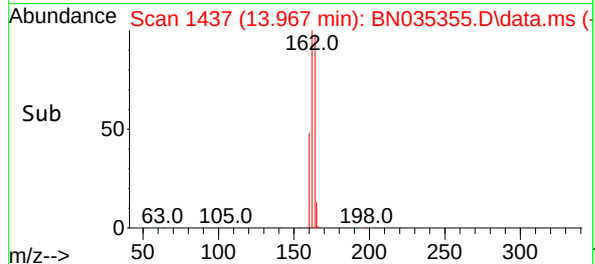
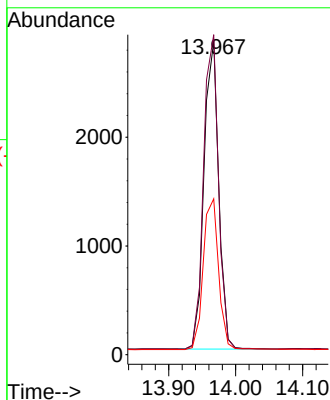
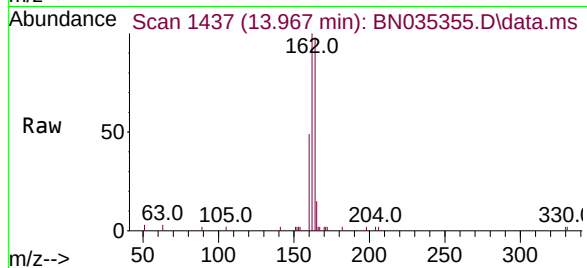




#13  
Acenaphthene-d10  
Concen: 0.400 ng  
RT: 13.967 min Scan# 1437  
Delta R.T. -0.000 min  
Lab File: BN035355.D  
Acq: 27 Nov 2024 18:33

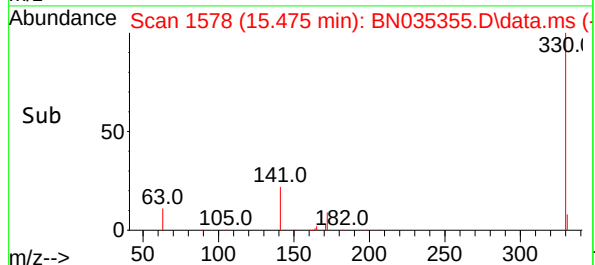
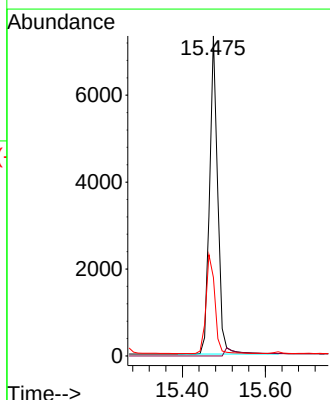
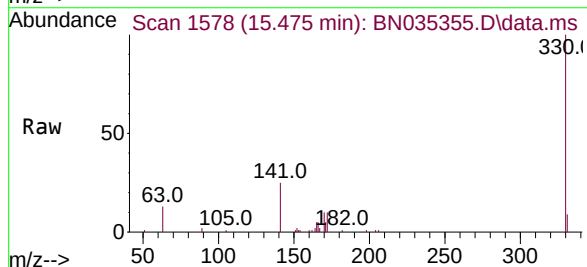
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC3.2

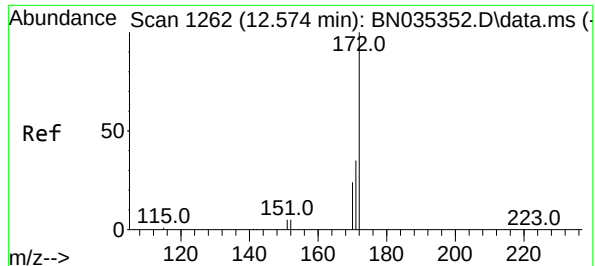
Tgt Ion:164 Resp: 4307  
Ion Ratio Lower Upper  
164 100  
162 102.0 82.2 123.2  
160 49.7 40.1 60.1



#14  
2,4,6-Tribromophenol  
Concen: 3.444 ng  
RT: 15.475 min Scan# 1578  
Delta R.T. -0.000 min  
Lab File: BN035355.D  
Acq: 27 Nov 2024 18:33

Tgt Ion:330 Resp: 10700  
Ion Ratio Lower Upper  
330 100  
332 0.0 0.0 0.0  
141 33.7 26.6 40.0

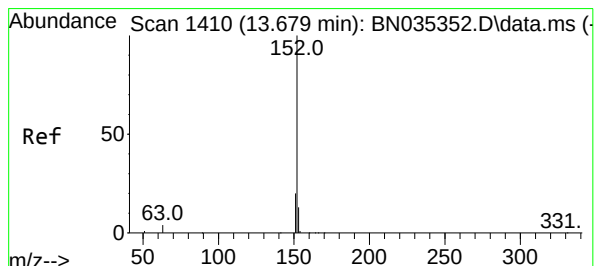
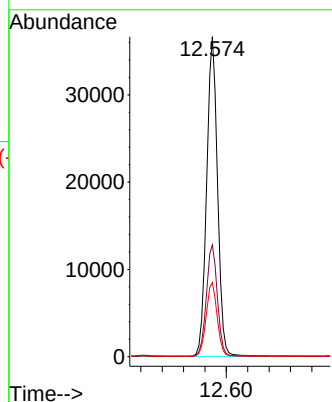
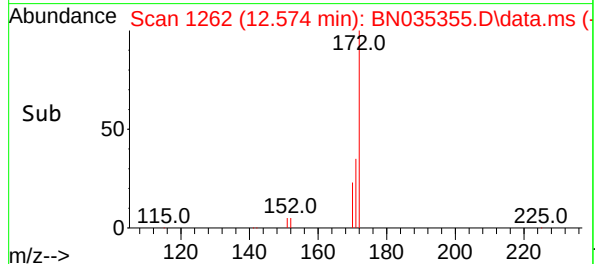
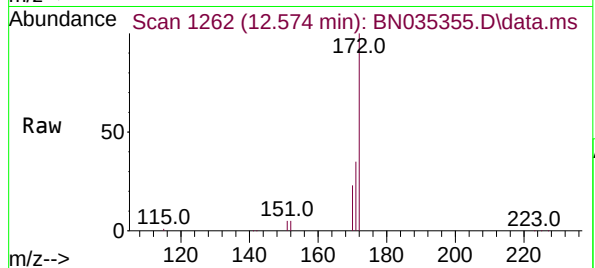




#15  
2-Fluorobiphenyl  
Concen: 2.976 ng  
RT: 12.574 min Scan# 1262  
Delta R.T. -0.000 min  
Lab File: BN035355.D  
Acq: 27 Nov 2024 18:33

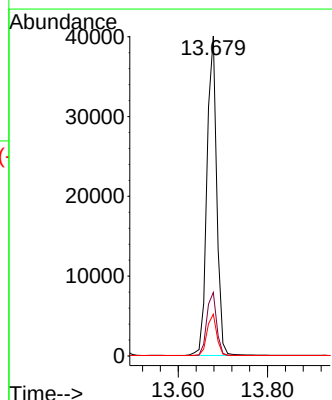
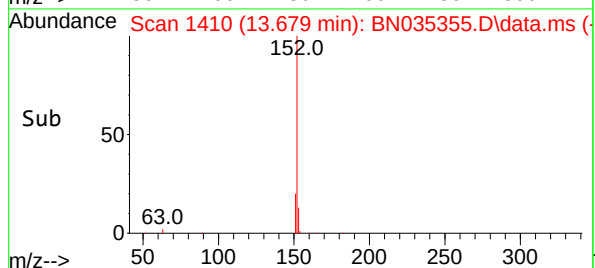
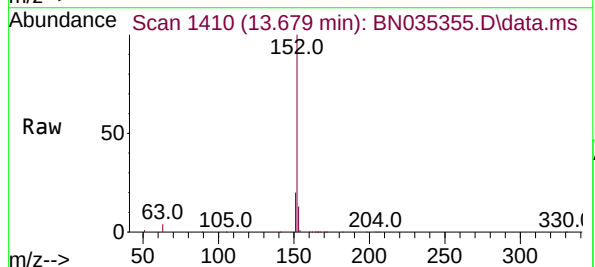
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC3.2

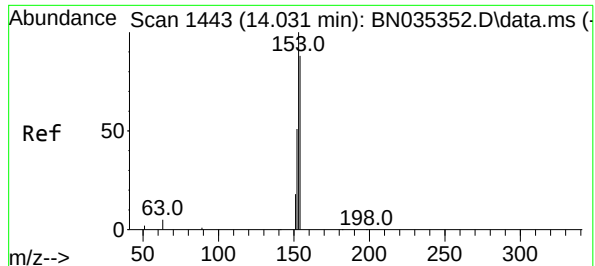
Tgt Ion:172 Resp: 52048  
Ion Ratio Lower Upper  
172 100  
171 35.0 29.0 43.4  
170 23.1 19.8 29.8



#16  
Acenaphthylene  
Concen: 3.300 ng  
RT: 13.679 min Scan# 1410  
Delta R.T. -0.000 min  
Lab File: BN035355.D  
Acq: 27 Nov 2024 18:33

Tgt Ion:152 Resp: 60734  
Ion Ratio Lower Upper  
152 100  
151 19.8 16.2 24.2  
153 12.9 10.4 15.6

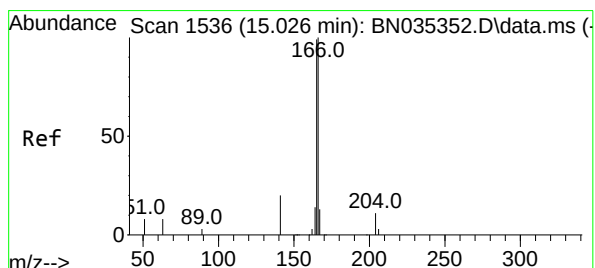
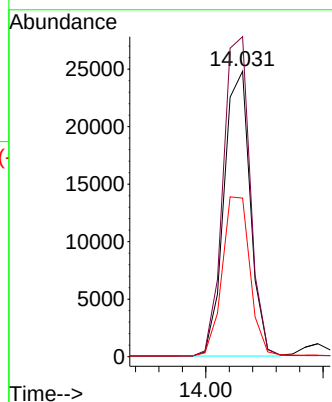
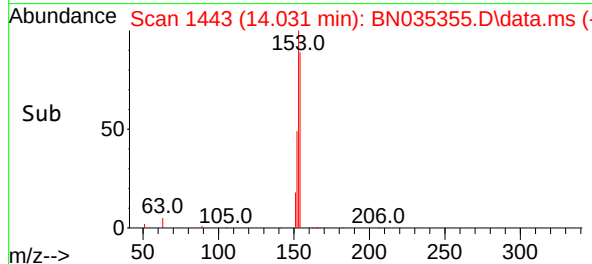
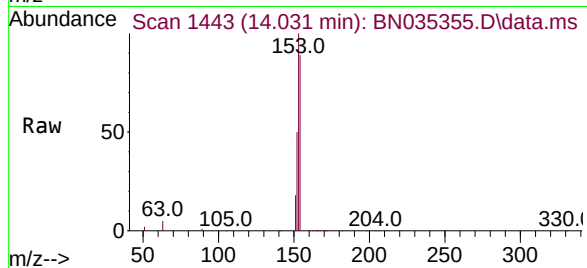




#17  
Acenaphthene  
Concen: 3.206 ng  
RT: 14.031 min Scan# 1443  
Delta R.T. -0.000 min  
Lab File: BN035355.D  
Acq: 27 Nov 2024 18:33

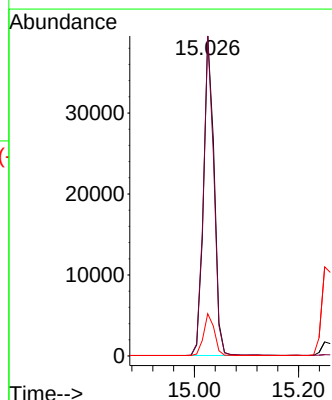
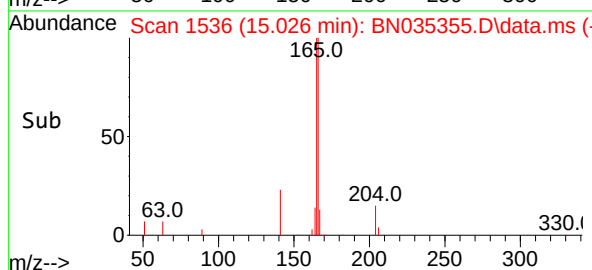
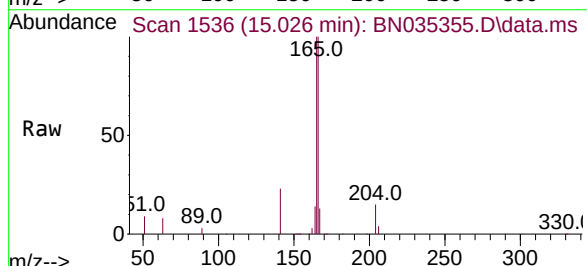
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC3.2

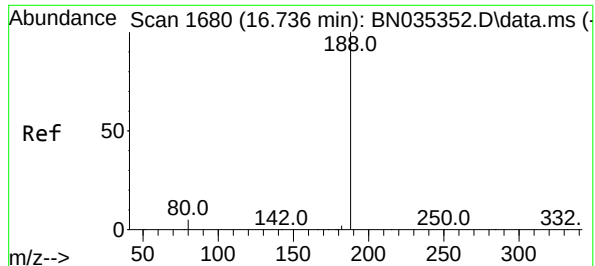
Tgt Ion:154 Resp: 38676  
Ion Ratio Lower Upper  
154 100  
153 115.5 92.6 139.0  
152 59.2 49.0 73.6



#18  
Fluorene  
Concen: 3.134 ng  
RT: 15.026 min Scan# 1536  
Delta R.T. -0.000 min  
Lab File: BN035355.D  
Acq: 27 Nov 2024 18:33

Tgt Ion:166 Resp: 55613  
Ion Ratio Lower Upper  
166 100  
165 98.5 79.7 119.5  
167 13.3 10.8 16.2





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 16.723 min Scan# 1

Delta R.T. -0.012 min

Lab File: BN035355.D

Acq: 27 Nov 2024 18:33

Instrument :

BNA\_N

ClientSampleId :

SSTDICC3.2

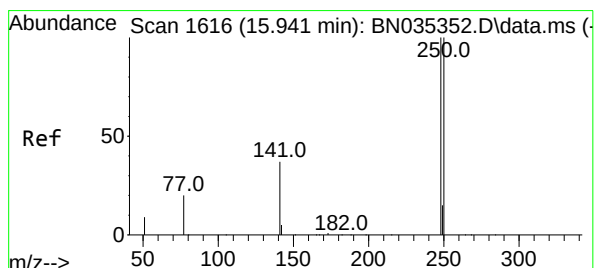
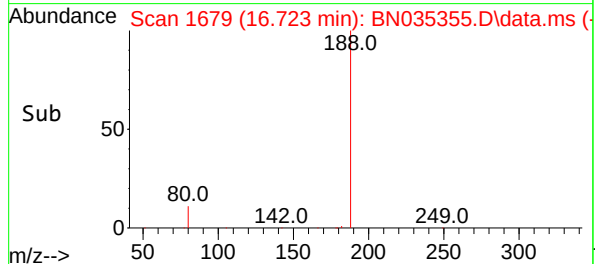
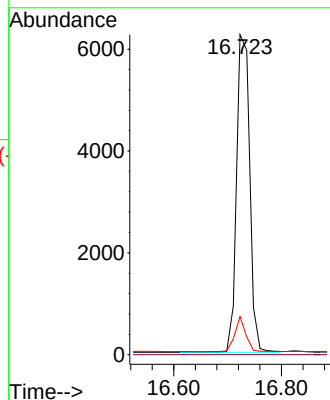
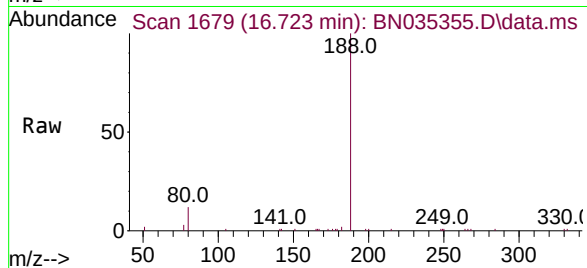
Tgt Ion:188 Resp: 10513

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 11.9 4.6 6.8#



#21

4-Bromophenyl-phenylether

Concen: 3.034 ng

RT: 15.941 min Scan# 1616

Delta R.T. -0.000 min

Lab File: BN035355.D

Acq: 27 Nov 2024 18:33

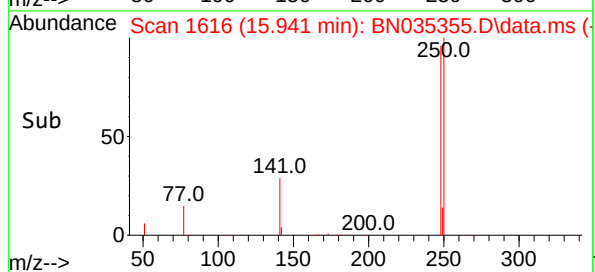
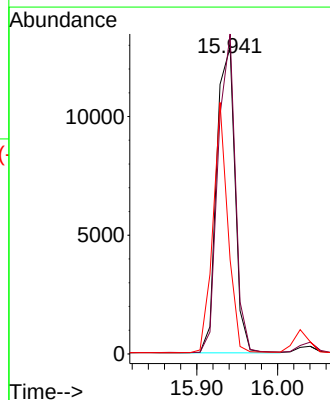
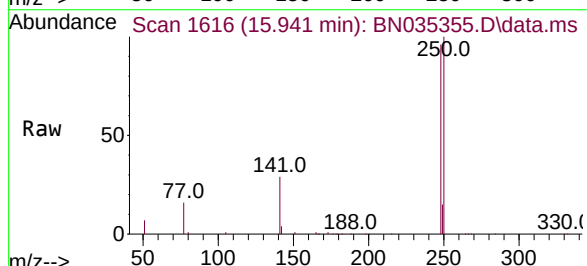
Tgt Ion:248 Resp: 20321

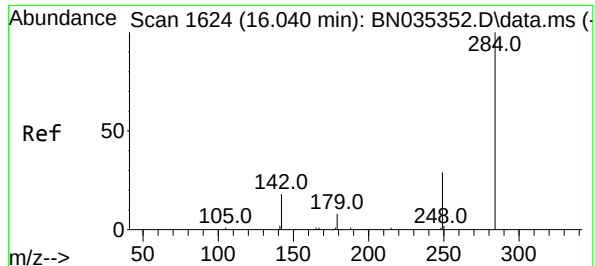
Ion Ratio Lower Upper

248 100

250 104.3 80.6 120.8

141 30.7 31.5 47.3#





#22

Hexachlorobenzene

Concen: 3.359 ng

RT: 16.040 min Scan# 1624

Delta R.T. -0.000 min

Lab File: BN035355.D

Acq: 27 Nov 2024 18:33

Instrument :

BNA\_N

ClientSampleId :

SSTDICC3.2

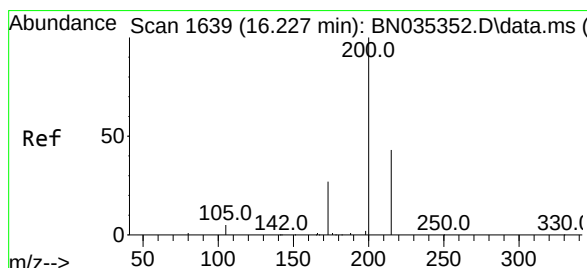
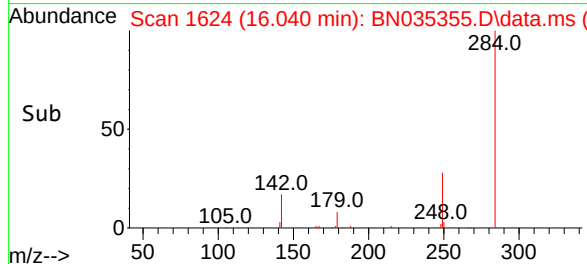
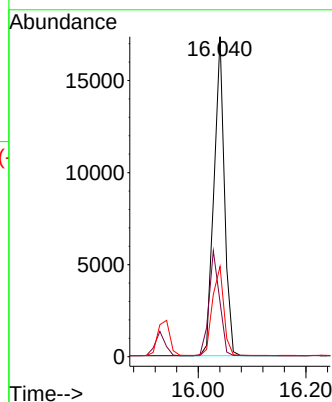
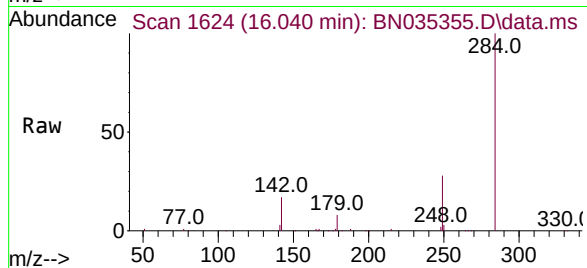
Tgt Ion:284 Resp: 23349

Ion Ratio Lower Upper

284 100

142 33.3 26.7 40.1

249 30.2 24.6 36.8



#23

Atrazine

Concen: 2.508 ng

RT: 16.227 min Scan# 1639

Delta R.T. -0.000 min

Lab File: BN035355.D

Acq: 27 Nov 2024 18:33

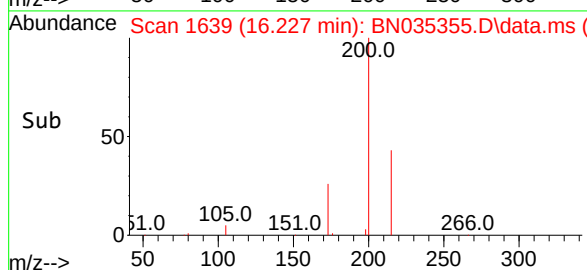
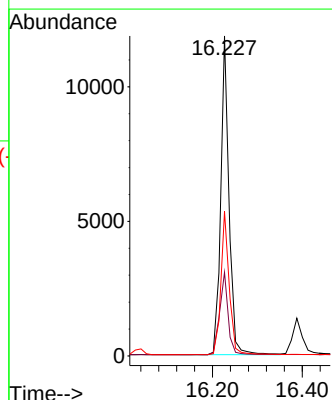
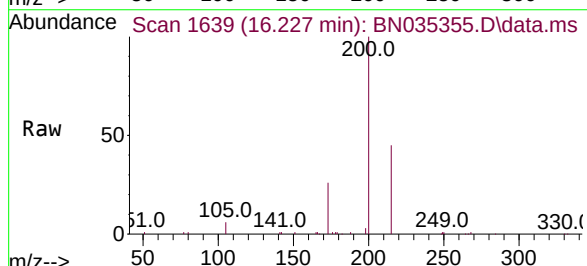
Tgt Ion:200 Resp: 15072

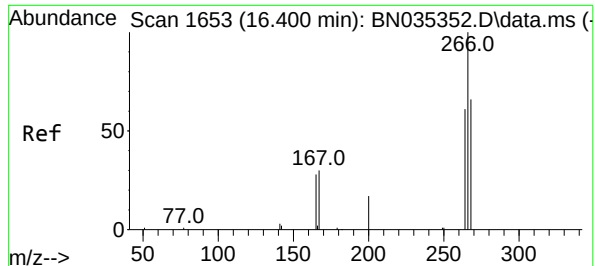
Ion Ratio Lower Upper

200 100

173 26.2 24.1 36.1

215 45.1 36.9 55.3

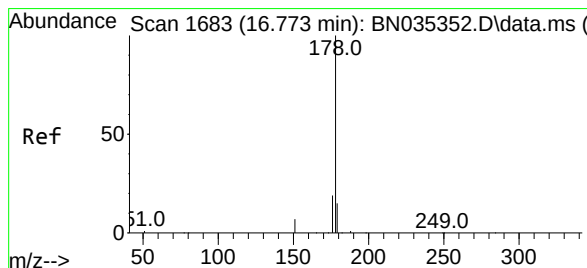
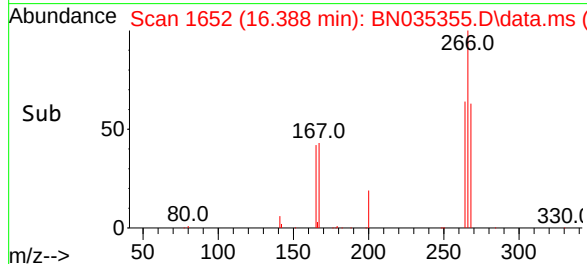
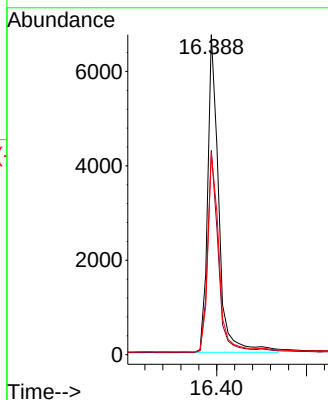
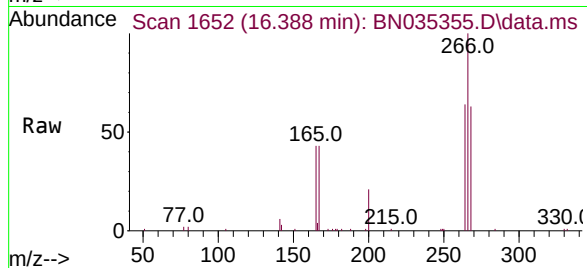




#24  
Pentachlorophenol  
Concen: 3.522 ng  
RT: 16.388 min Scan# 1652  
Delta R.T. -0.012 min  
Lab File: BN035355.D  
Acq: 27 Nov 2024 18:33

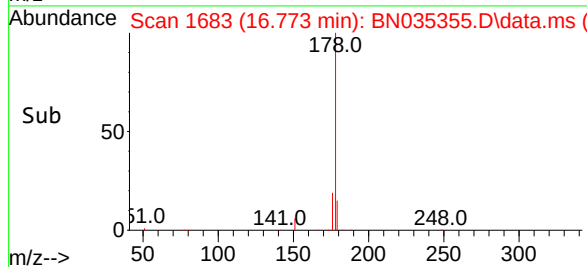
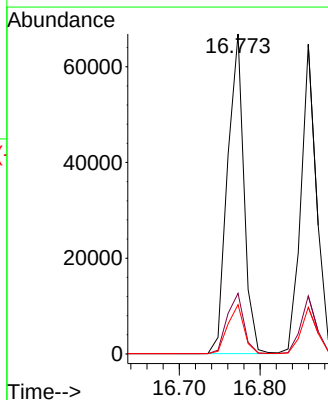
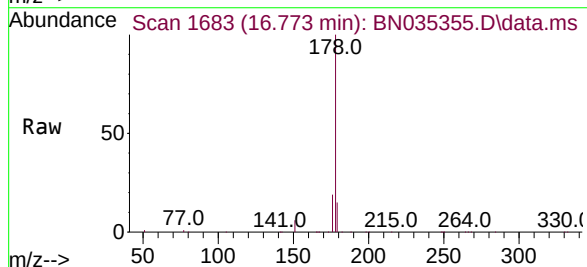
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC3.2

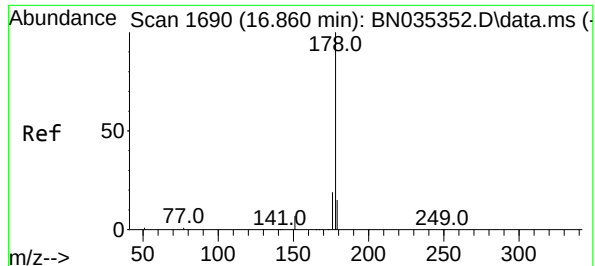
Tgt Ion:266 Resp: 11439  
Ion Ratio Lower Upper  
266 100  
264 62.6 42.3 63.5  
268 64.4 43.3 64.9



#25  
Phenanthrene  
Concen: 3.406 ng  
RT: 16.773 min Scan# 1683  
Delta R.T. -0.000 min  
Lab File: BN035355.D  
Acq: 27 Nov 2024 18:33

Tgt Ion:178 Resp: 94243  
Ion Ratio Lower Upper  
178 100  
176 19.3 15.4 23.2  
179 15.3 12.3 18.5

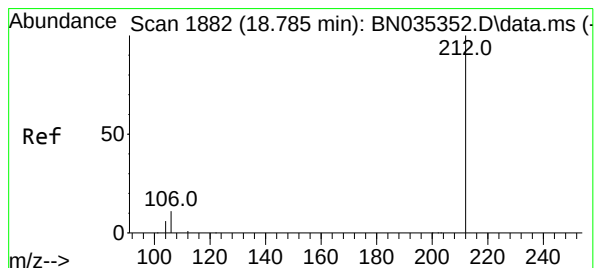
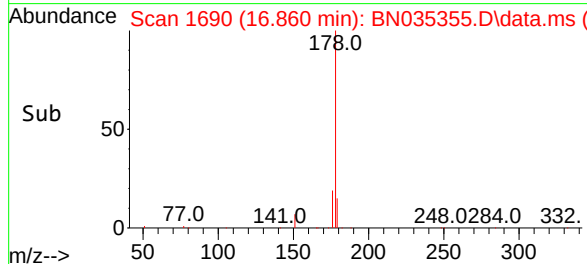
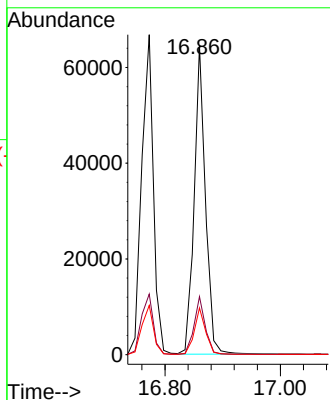
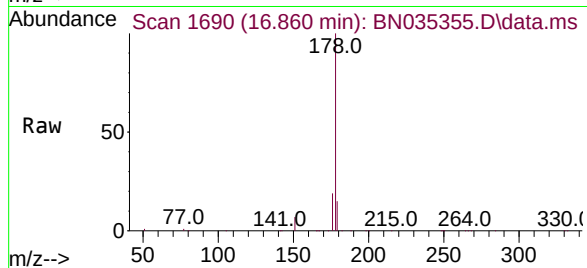




#26  
Anthracene  
Concen: 3.449 ng  
RT: 16.860 min Scan# 1690  
Delta R.T. -0.000 min  
Lab File: BN035355.D  
Acq: 27 Nov 2024 18:33

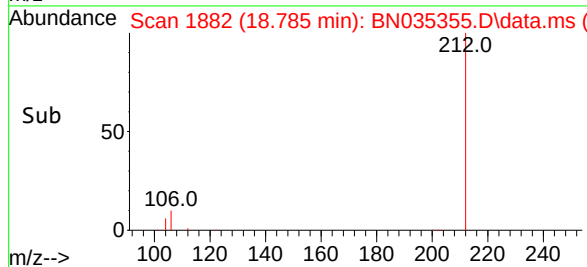
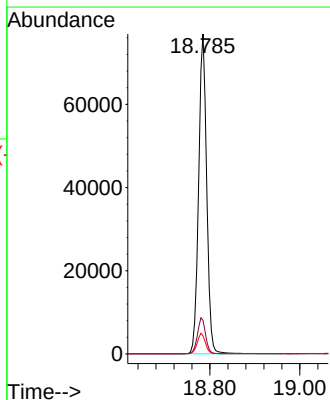
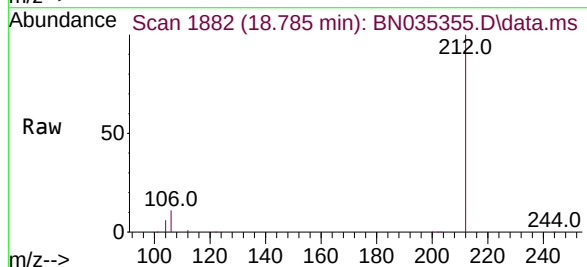
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC3.2

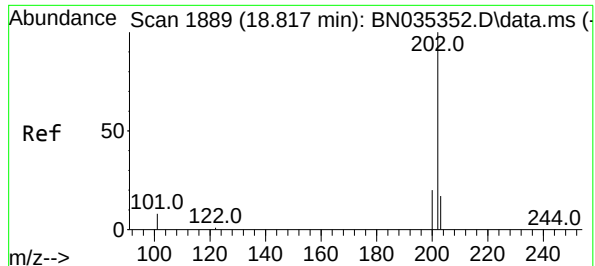
Tgt Ion:178 Resp: 87657  
Ion Ratio Lower Upper  
178 100  
176 18.6 15.0 22.6  
179 15.1 12.6 18.8



#27  
Fluoranthene-d10  
Concen: 2.971 ng  
RT: 18.785 min Scan# 1882  
Delta R.T. -0.000 min  
Lab File: BN035355.D  
Acq: 27 Nov 2024 18:33

Tgt Ion:212 Resp: 95675  
Ion Ratio Lower Upper  
212 100  
106 11.4 9.2 13.8  
104 6.4 5.3 7.9

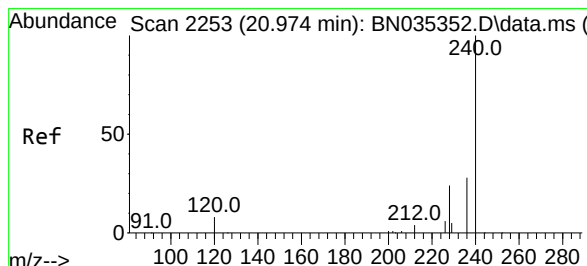
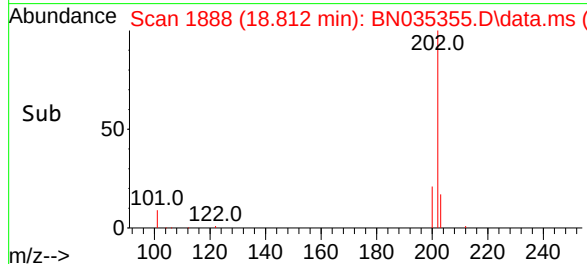
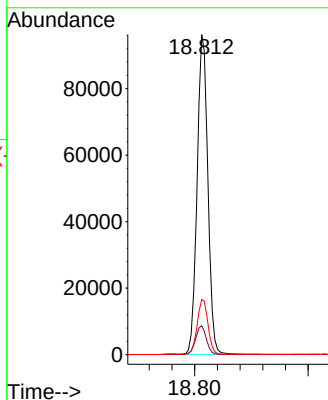
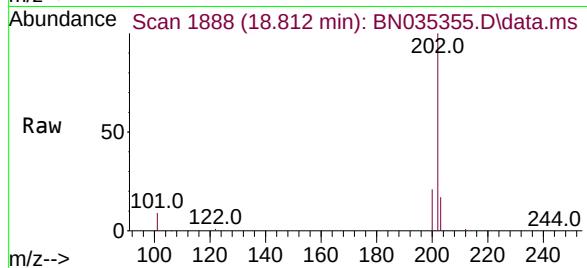




#28  
Fluoranthene  
Concen: 3.309 ng  
RT: 18.812 min Scan# 1888  
Delta R.T. -0.005 min  
Lab File: BN035355.D  
Acq: 27 Nov 2024 18:33

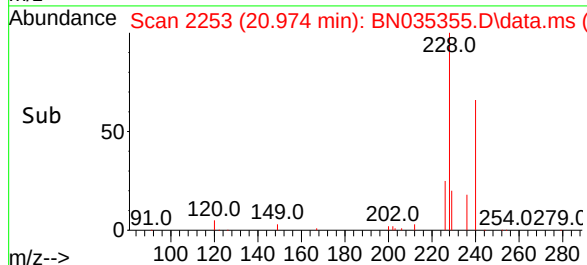
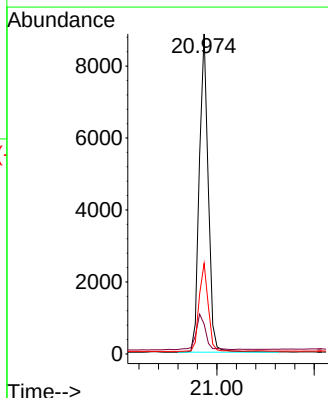
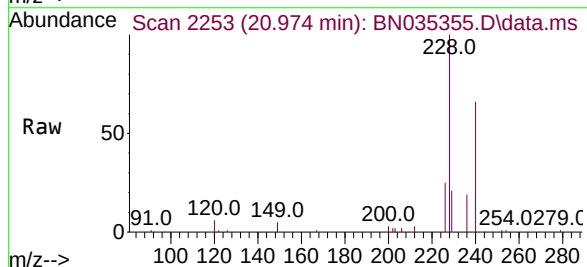
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC3.2

Tgt Ion:202 Resp: 125901  
Ion Ratio Lower Upper  
202 100  
101 9.1 7.4 11.0  
203 17.3 13.7 20.5

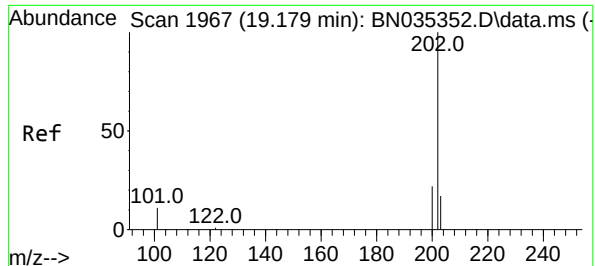


#29  
Chrysene-d12  
Concen: 0.400 ng  
RT: 20.974 min Scan# 2253  
Delta R.T. -0.000 min  
Lab File: BN035355.D  
Acq: 27 Nov 2024 18:33

Tgt Ion:240 Resp: 11206  
Ion Ratio Lower Upper  
240 100  
120 9.3 7.9 11.9  
236 28.3 22.9 34.3



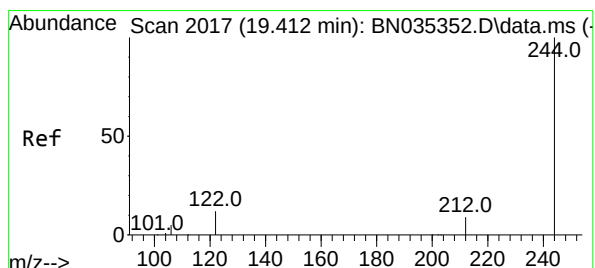
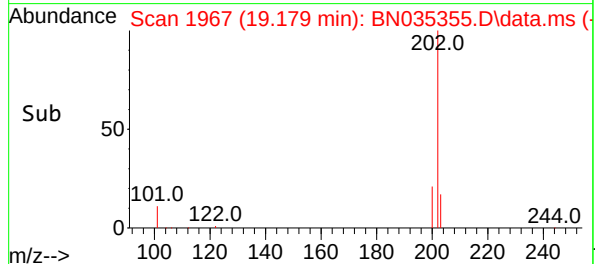
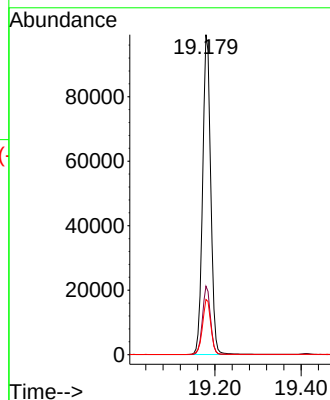
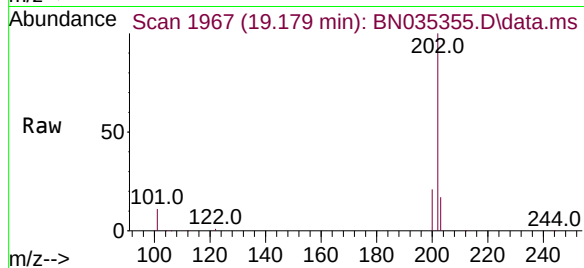




#30  
Pyrene  
Concen: 3.460 ng  
RT: 19.179 min Scan# 1967  
Delta R.T. -0.000 min  
Lab File: BN035355.D  
Acq: 27 Nov 2024 18:33

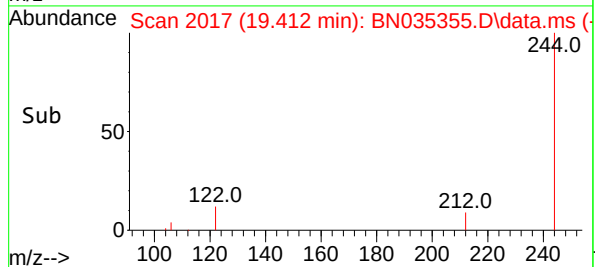
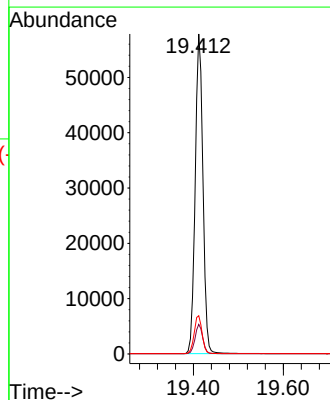
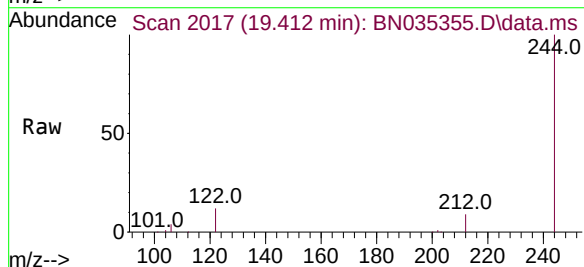
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC3.2

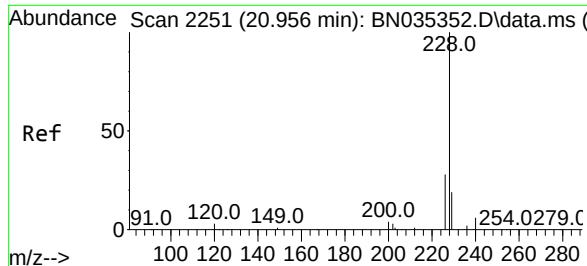
Tgt Ion:202 Resp: 129105  
Ion Ratio Lower Upper  
202 100  
200 21.2 17.0 25.4  
203 17.7 14.3 21.5



#31  
Terphenyl-d14  
Concen: 2.941 ng  
RT: 19.412 min Scan# 2017  
Delta R.T. -0.000 min  
Lab File: BN035355.D  
Acq: 27 Nov 2024 18:33

Tgt Ion:244 Resp: 69164  
Ion Ratio Lower Upper  
244 100  
212 9.2 8.1 12.1  
122 12.0 10.3 15.5

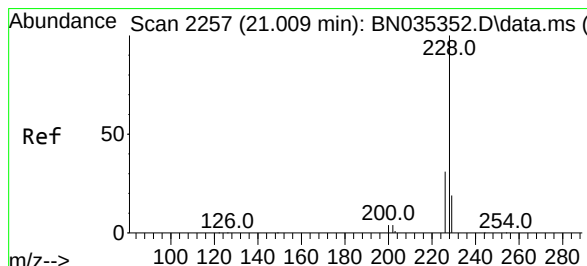
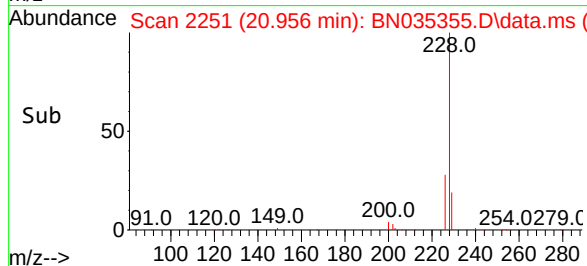
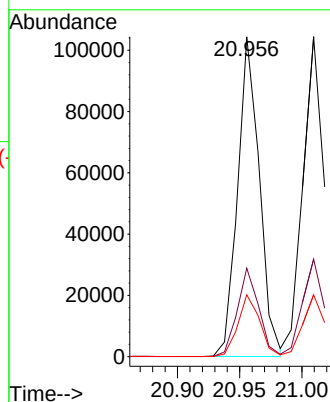
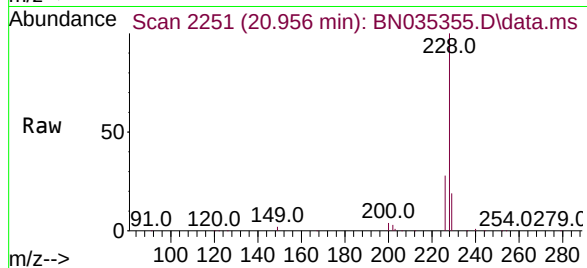




#32  
Benzo(a)anthracene  
Concen: 3.242 ng  
RT: 20.956 min Scan# 21  
Delta R.T. -0.000 min  
Lab File: BN035355.D  
Acq: 27 Nov 2024 18:33

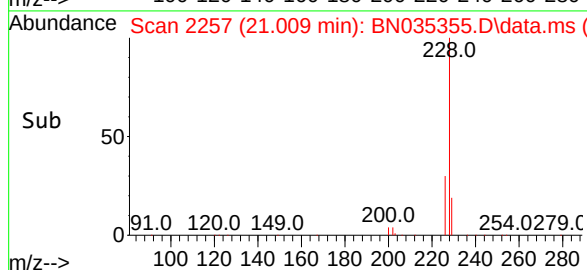
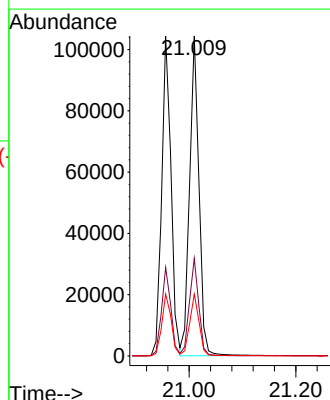
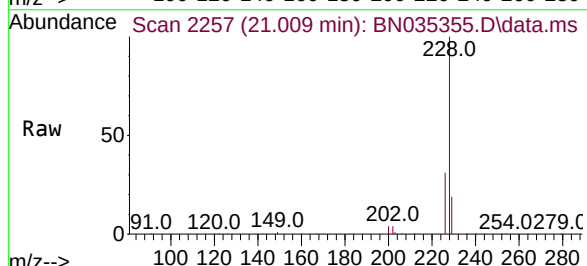
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC3.2

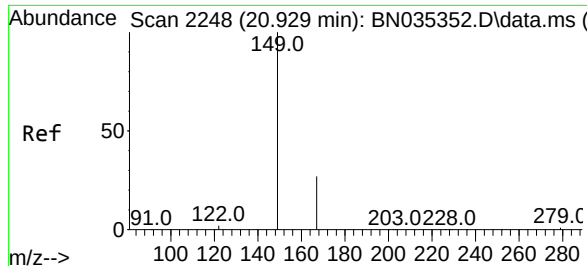
Tgt Ion:228 Resp: 126517  
Ion Ratio Lower Upper  
228 100  
226 27.6 22.5 33.7  
229 19.4 15.8 23.8



#33  
Chrysene  
Concen: 3.297 ng  
RT: 21.009 min Scan# 2257  
Delta R.T. -0.000 min  
Lab File: BN035355.D  
Acq: 27 Nov 2024 18:33

Tgt Ion:228 Resp: 127439  
Ion Ratio Lower Upper  
228 100  
226 30.5 24.6 37.0  
229 19.4 15.9 23.9

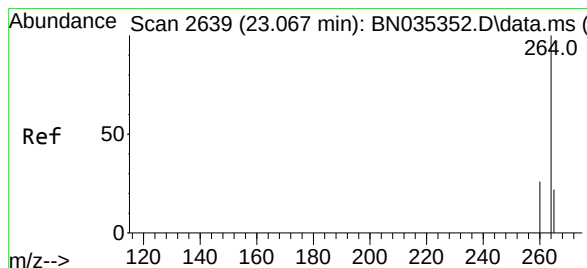
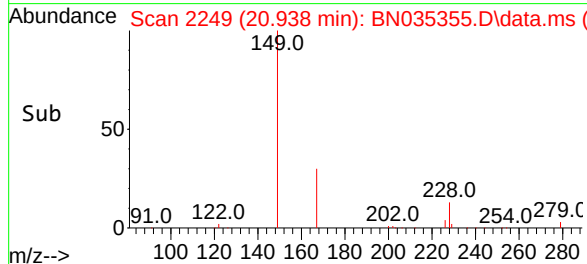
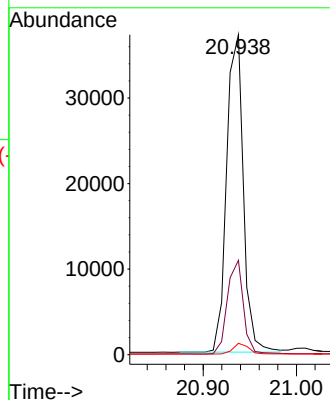
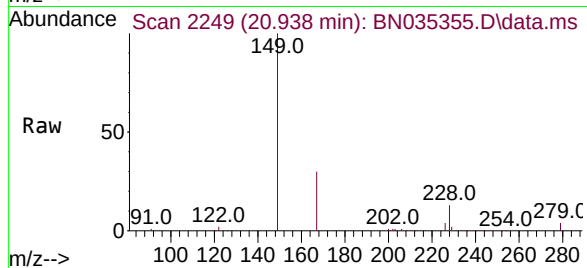




#34  
Bis(2-ethylhexyl)phthalate  
Concen: 2.259 ng  
RT: 20.938 min Scan# 21  
Delta R.T. 0.009 min  
Lab File: BN035355.D  
Acq: 27 Nov 2024 18:33

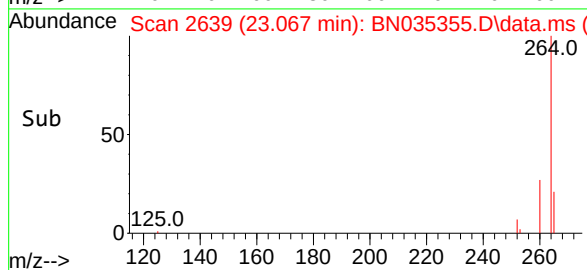
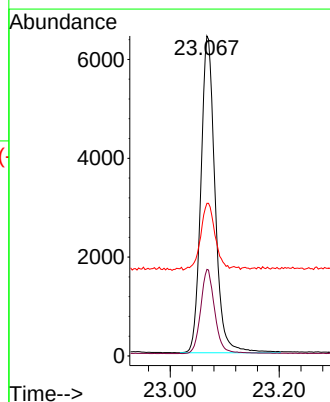
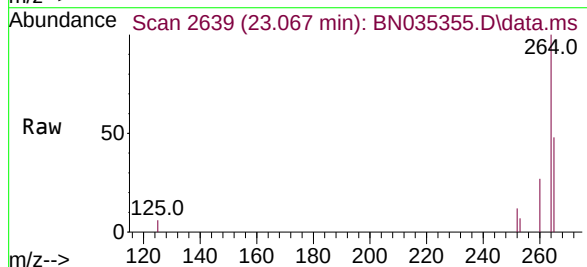
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC3.2

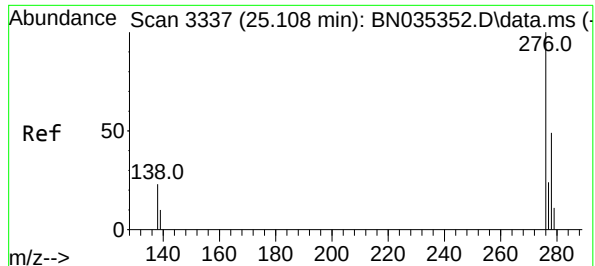
Tgt Ion:149 Resp: 46251  
Ion Ratio Lower Upper  
149 100  
167 28.3 22.2 33.4  
279 3.2 2.7 4.1



#35  
Perylene-d12  
Concen: 0.400 ng  
RT: 23.067 min Scan# 2639  
Delta R.T. -0.000 min  
Lab File: BN035355.D  
Acq: 27 Nov 2024 18:33

Tgt Ion:264 Resp: 11643  
Ion Ratio Lower Upper  
264 100  
260 27.1 21.4 32.2  
265 47.7 40.2 60.4





#36

Indeno(1,2,3-cd)pyrene

Concen: 3.239 ng

RT: 25.108 min Scan# 31

Delta R.T. -0.000 min

Lab File: BN035355.D

Acq: 27 Nov 2024 18:33

Instrument :

BNA\_N

ClientSampleId :

SSTDICC3.2

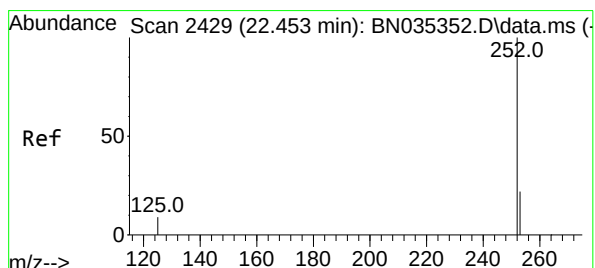
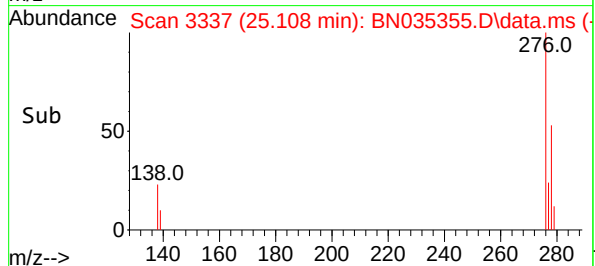
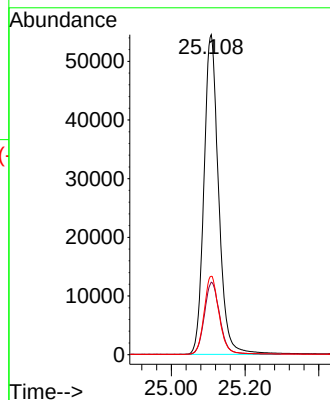
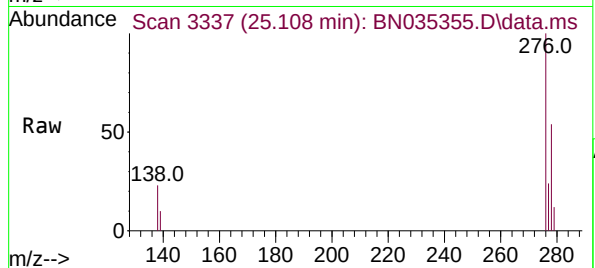
Tgt Ion:276 Resp: 150433

Ion Ratio Lower Upper

276 100

138 23.7 19.4 29.0

277 24.9 19.8 29.6



#37

Benzo(b)fluoranthene

Concen: 3.478 ng

RT: 22.456 min Scan# 2430

Delta R.T. 0.003 min

Lab File: BN035355.D

Acq: 27 Nov 2024 18:33

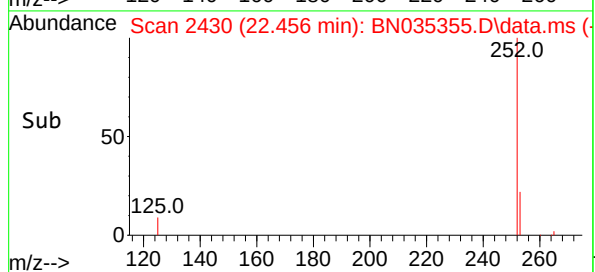
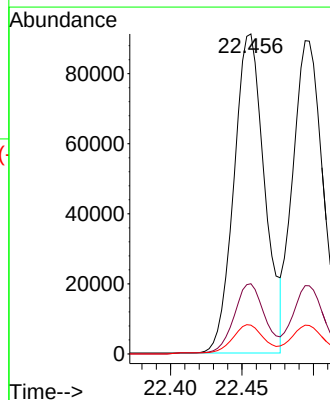
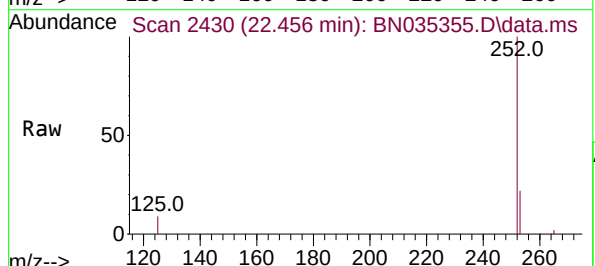
Tgt Ion:252 Resp: 136261

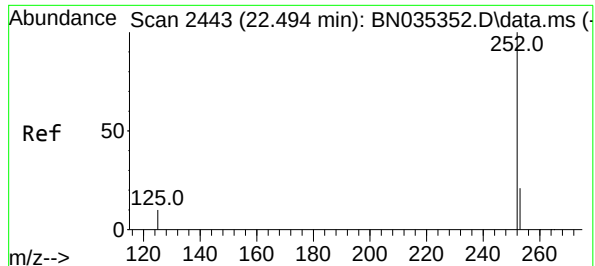
Ion Ratio Lower Upper

252 100

253 22.0 19.6 29.4

125 9.0 9.6 14.4#





#38

Benzo(k)fluoranthene

Concen: 3.439 ng

RT: 22.494 min Scan# 2443

Delta R.T. -0.000 min

Lab File: BN035355.D

Acq: 27 Nov 2024 18:33

Instrument :

BNA\_N

ClientSampleId :

SSTDICC3.2

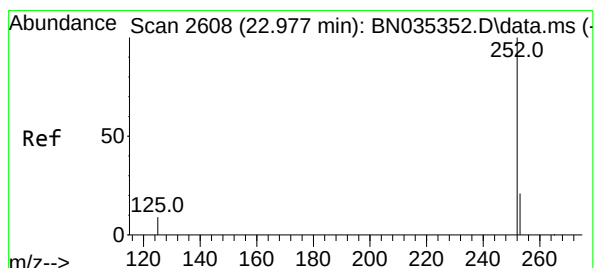
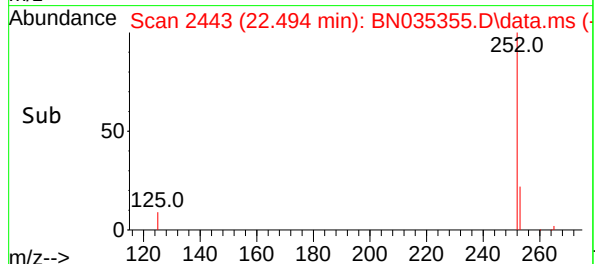
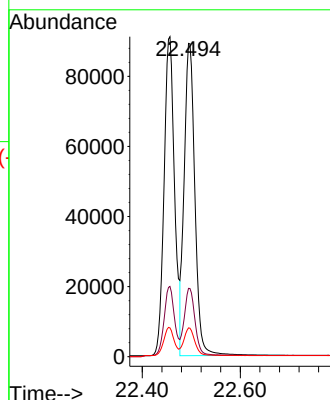
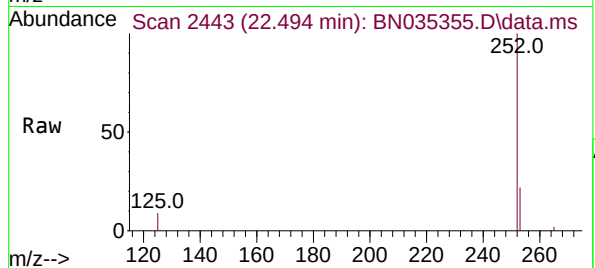
Tgt Ion:252 Resp: 134789

Ion Ratio Lower Upper

252 100

253 21.8 19.5 29.3

125 9.2 10.2 15.4#



#39

Benzo(a)pyrene

Concen: 3.328 ng

RT: 22.980 min Scan# 2609

Delta R.T. 0.003 min

Lab File: BN035355.D

Acq: 27 Nov 2024 18:33

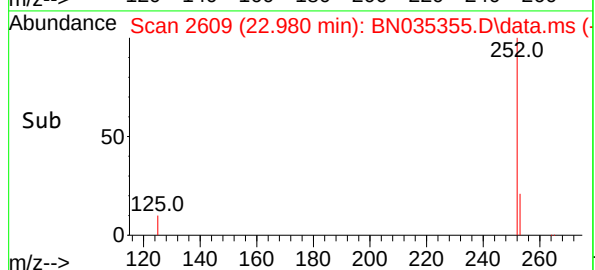
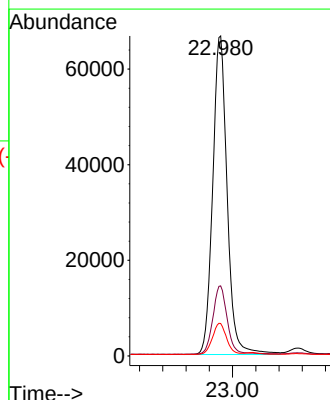
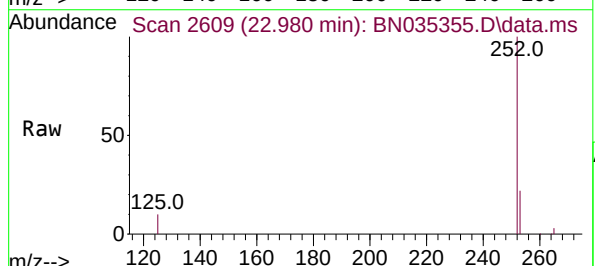
Tgt Ion:252 Resp: 114719

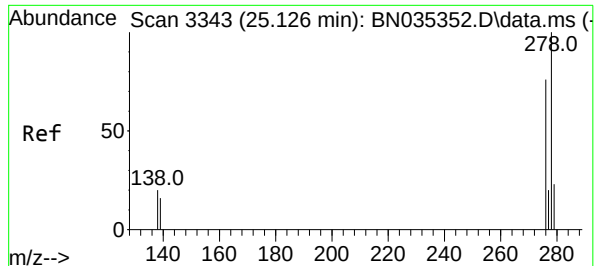
Ion Ratio Lower Upper

252 100

253 21.9 20.2 30.4

125 10.1 10.9 16.3#





#40

Dibenzo(a,h)anthracene

Concen: 3.240 ng

RT: 25.123 min Scan# 31

Delta R.T. -0.003 min

Lab File: BN035355.D

Acq: 27 Nov 2024 18:33

Instrument :

BNA\_N

ClientSampleId :

SSTDICC3.2

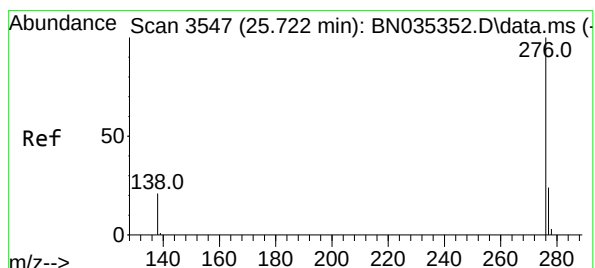
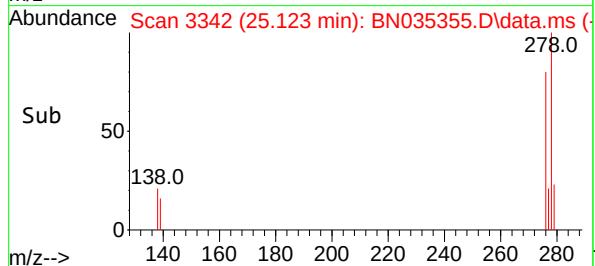
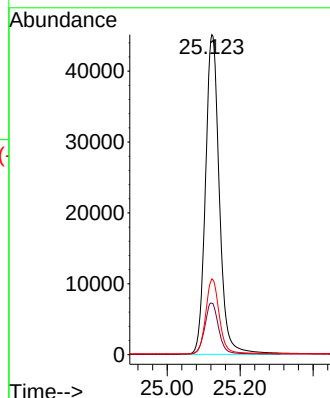
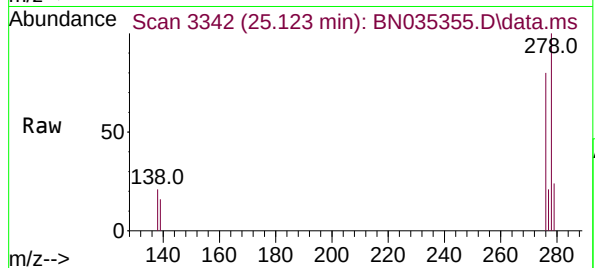
Tgt Ion:278 Resp: 119216

Ion Ratio Lower Upper

278 100

139 16.1 14.2 21.4

279 23.7 20.5 30.7



#41

Benzo(g,h,i)perylene

Concen: 3.164 ng

RT: 25.722 min Scan# 3547

Delta R.T. -0.000 min

Lab File: BN035355.D

Acq: 27 Nov 2024 18:33

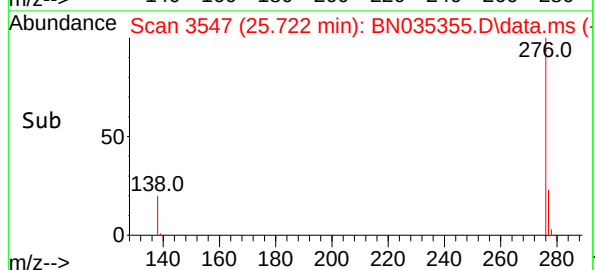
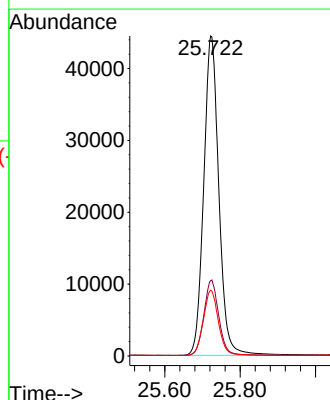
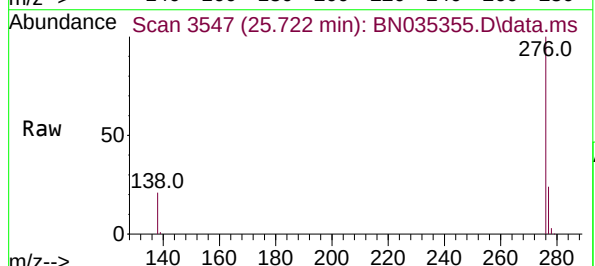
Tgt Ion:276 Resp: 123841

Ion Ratio Lower Upper

276 100

277 23.6 19.9 29.9

138 20.6 17.8 26.8



Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN112724\  
 Data File : BN035356.D  
 Acq On : 27 Nov 2024 19:09  
 Operator : RC/JU  
 Sample : SSTDICC5.0  
 Misc :  
 ALS Vial : 8 Sample Multiplier: 1

Instrument :  
 BNA\_N  
 ClientSampleId :  
 SSTDICC5.0

Quant Time: Nov 27 22:54:04 2024  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\8270-SIM-BN112724.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Wed Nov 27 22:48:24 2024  
 Response via : Initial Calibration

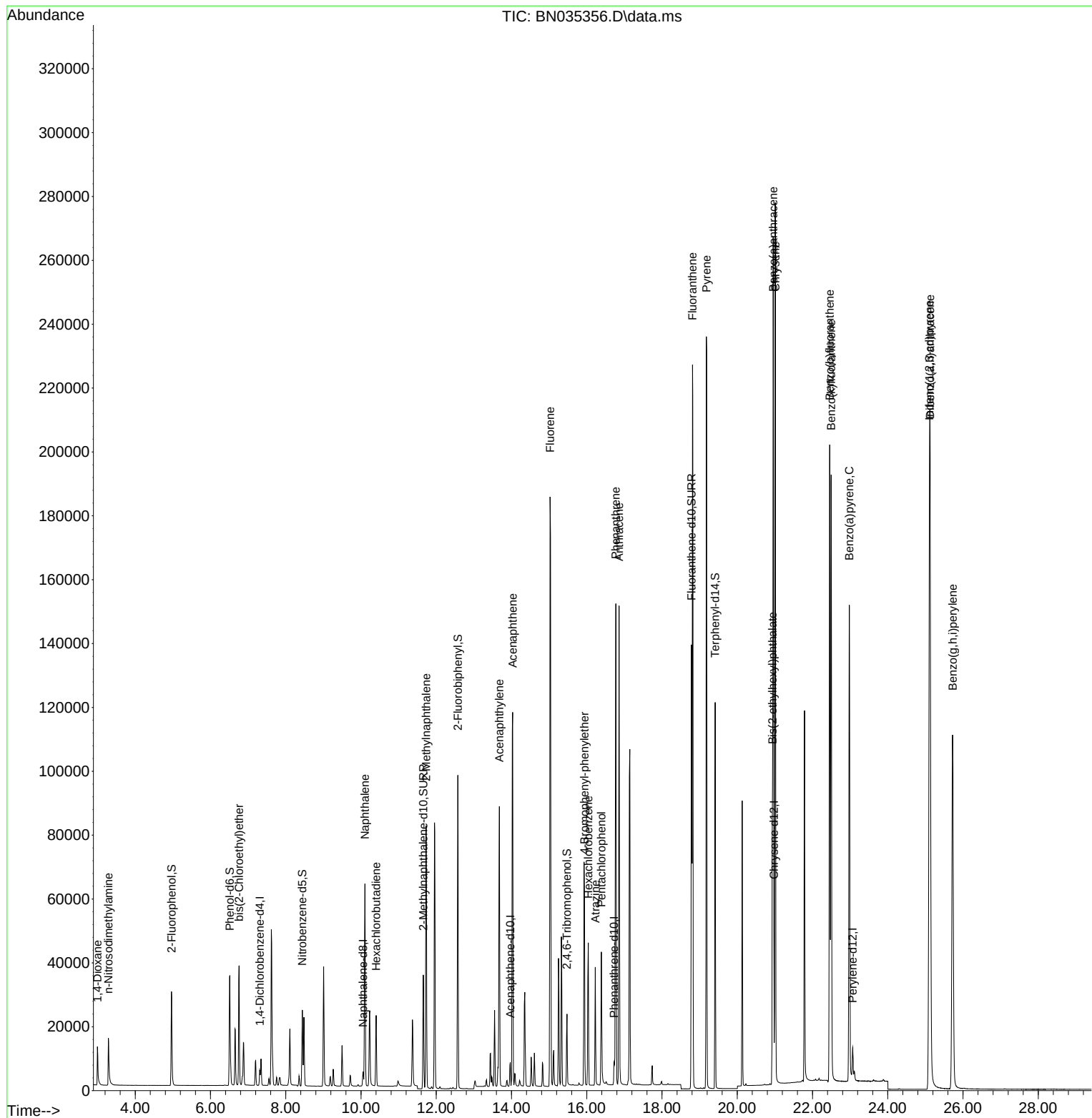
| Compound                      | R.T.   | QIon | Response | Conc  | Units | Dev(Min) |
|-------------------------------|--------|------|----------|-------|-------|----------|
| -----                         |        |      |          |       |       |          |
| Internal Standards            |        |      |          |       |       |          |
| 1) 1,4-Dichlorobenzene-d4     | 7.308  | 152  | 2249     | 0.400 | ng    | 0.00     |
| 7) Naphthalene-d8             | 10.052 | 136  | 5807     | 0.400 | ng    | 0.00     |
| 13) Acenaphthene-d10          | 13.967 | 164  | 4363     | 0.400 | ng    | 0.00     |
| 19) Phenanthrene-d10          | 16.723 | 188  | 10479    | 0.400 | ng    | #-0.01   |
| 29) Chrysene-d12              | 20.974 | 240  | 11520    | 0.400 | ng    | 0.00     |
| 35) Perylene-d12              | 23.067 | 264  | 12000    | 0.400 | ng    | 0.00     |
|                               |        |      |          |       |       |          |
| System Monitoring Compounds   |        |      |          |       |       |          |
| 4) 2-Fluorophenol             | 4.968  | 112  | 26472    | 4.637 | ng    | 0.00     |
| 5) Phenol-d6                  | 6.513  | 99   | 34560    | 4.828 | ng    | 0.00     |
| 8) Nitrobenzene-d5            | 8.440  | 82   | 18911    | 3.741 | ng    | 0.00     |
| 11) 2-Methylnaphthalene-d10   | 11.656 | 152  | 47612    | 4.601 | ng    | 0.00     |
| 14) 2,4,6-Tribromophenol      | 15.475 | 330  | 17905    | 5.689 | ng    | 0.00     |
| 15) 2-Fluorobiphenyl          | 12.574 | 172  | 82401    | 4.650 | ng    | 0.00     |
| 27) Fluoranthene-d10          | 18.785 | 212  | 152416   | 4.748 | ng    | 0.00     |
| 31) Terphenyl-d14             | 19.412 | 244  | 110737   | 4.581 | ng    | 0.00     |
|                               |        |      |          |       |       |          |
| Target Compounds              |        |      |          |       |       | Qvalue   |
| 2) 1,4-Dioxane                | 2.996  | 88   | 9786     | 4.790 | ng    | 99       |
| 3) n-Nitrosodimethylamine     | 3.285  | 42   | 8681     | 4.560 | ng    | # 96     |
| 6) bis(2-Chloroethyl)ether    | 6.759  | 93   | 27872    | 5.187 | ng    | 99       |
| 9) Naphthalene                | 10.105 | 128  | 77668    | 5.123 | ng    | 97       |
| 10) Hexachlorobutadiene       | 10.404 | 225  | 17273    | 3.887 | ng    | # 100    |
| 12) 2-Methylnaphthalene       | 11.732 | 142  | 57698    | 5.158 | ng    | 98       |
| 16) Acenaphthylene            | 13.679 | 152  | 97129    | 5.209 | ng    | 99       |
| 17) Acenaphthene              | 14.031 | 154  | 62170    | 5.088 | ng    | 98       |
| 18) Fluorene                  | 15.026 | 166  | 88648    | 4.932 | ng    | 99       |
| 21) 4-Bromophenyl-phenylether | 15.941 | 248  | 31947    | 4.785 | ng    | # 94     |
| 22) Hexachlorobenzene         | 16.040 | 284  | 36315    | 5.241 | ng    | 100      |
| 23) Atrazine                  | 16.227 | 200  | 25034    | 4.179 | ng    | 96       |
| 24) Pentachlorophenol         | 16.388 | 266  | 19691    | 6.083 | ng    | 86       |
| 25) Phenanthrene              | 16.773 | 178  | 147357   | 5.343 | ng    | 100      |
| 26) Anthracene                | 16.860 | 178  | 139399   | 5.503 | ng    | 99       |
| 28) Fluoranthene              | 18.812 | 202  | 199850   | 5.270 | ng    | 99       |
| 30) Pyrene                    | 19.179 | 202  | 206018   | 5.370 | ng    | 100      |
| 32) Benzo(a)anthracene        | 20.956 | 228  | 205712   | 5.128 | ng    | 99       |
| 33) Chrysene                  | 21.009 | 228  | 204475   | 5.146 | ng    | 99       |
| 34) Bis(2-ethylhexyl)phtha... | 20.938 | 149  | 78322    | 3.721 | ng    | 99       |
| 36) Indeno(1,2,3-cd)pyrene    | 25.108 | 276  | 252709   | 5.279 | ng    | 99       |
| 37) Benzo(b)fluoranthene      | 22.456 | 252  | 241201   | 5.974 | ng    | # 94     |
| 38) Benzo(k)fluoranthene      | 22.497 | 252  | 220146   | 5.449 | ng    | # 93     |
| 39) Benzo(a)pyrene            | 22.977 | 252  | 190665   | 5.367 | ng    | # 92     |
| 40) Dibenzo(a,h)anthracene    | 25.126 | 278  | 199852   | 5.269 | ng    | 96       |
| 41) Benzo(g,h,i)perylene      | 25.725 | 276  | 209119   | 5.183 | ng    | 97       |
| -----                         |        |      |          |       |       |          |

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

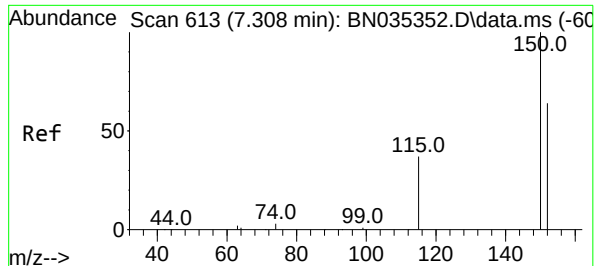
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Data File : BN035356.D  
Acq On : 27 Nov 2024 19:09  
Operator : RC/JU  
Sample : SSTDICC5.0  
Misc :  
ALS Vial : 8 Sample Multiplier: 1

Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC5.0

Quant Time: Nov 27 22:54:04 2024  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\8270-SIM-BN112724.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Wed Nov 27 22:48:24 2024  
Response via : Initial Calibration

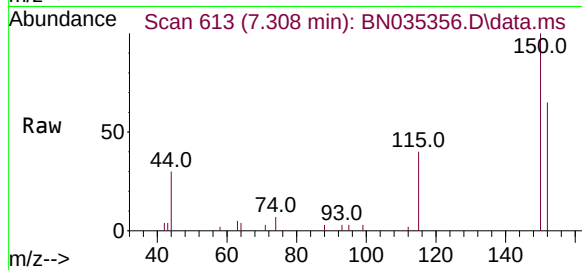




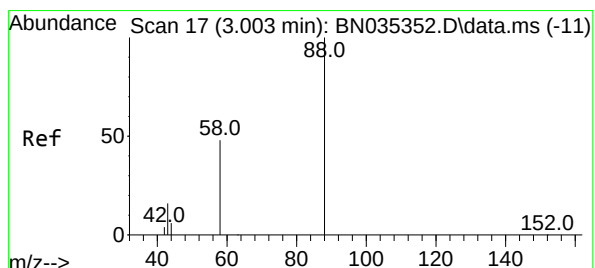
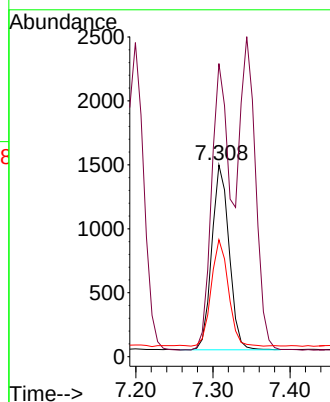
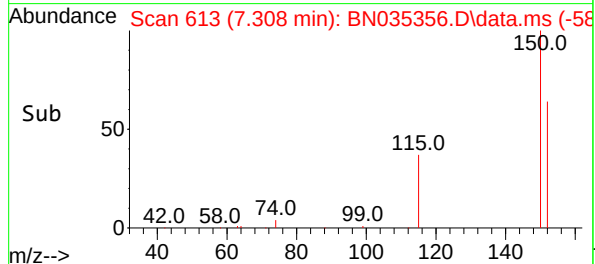


#1  
1,4-Dichlorobenzene-d4  
Concen: 0.400 ng  
RT: 7.308 min Scan# 61  
Delta R.T. -0.000 min  
Lab File: BN035356.D  
Acq: 27 Nov 2024 19:09

Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC5.0

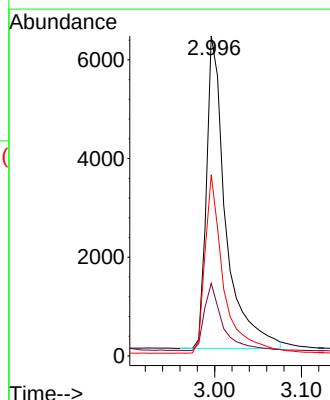
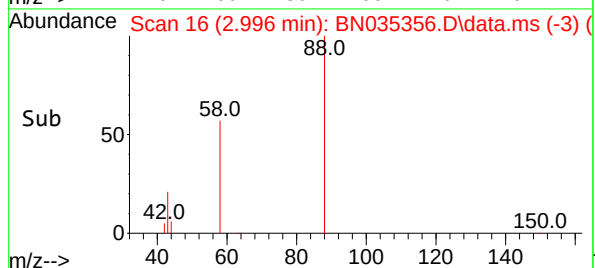
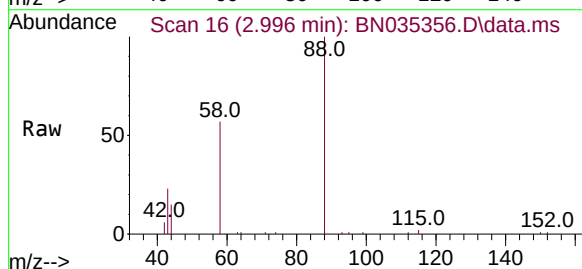


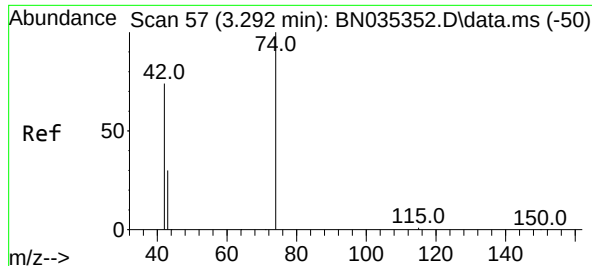
Tgt Ion:152 Resp: 2249  
Ion Ratio Lower Upper  
152 100  
150 152.9 124.0 186.0  
115 61.0 49.6 74.4



#2  
1,4-Dioxane  
Concen: 4.790 ng  
RT: 2.996 min Scan# 16  
Delta R.T. -0.007 min  
Lab File: BN035356.D  
Acq: 27 Nov 2024 19:09

Tgt Ion: 88 Resp: 9786  
Ion Ratio Lower Upper  
88 100  
43 20.5 17.2 25.8  
58 54.8 44.5 66.7

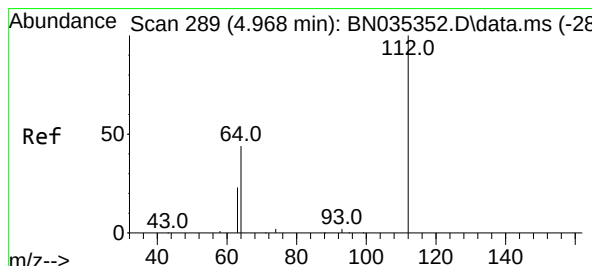
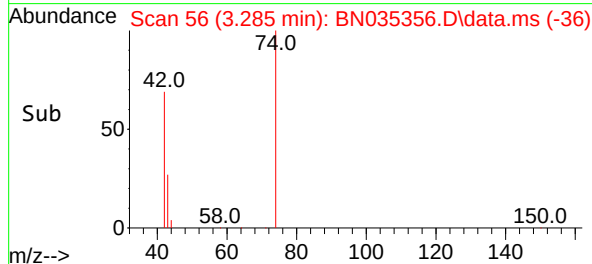
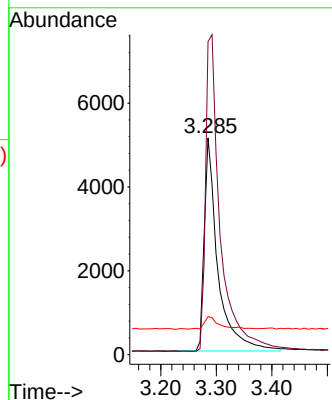
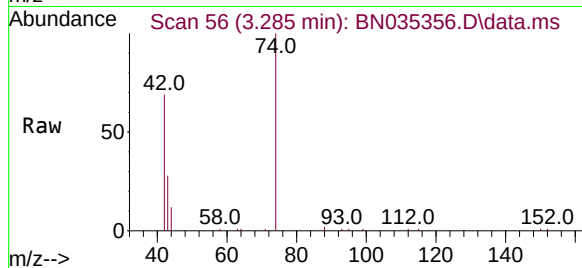




#3  
n-Nitrosodimethylamine  
Concen: 4.560 ng  
RT: 3.285 min Scan# 50  
Delta R.T. -0.007 min  
Lab File: BN035356.D  
Acq: 27 Nov 2024 19:09

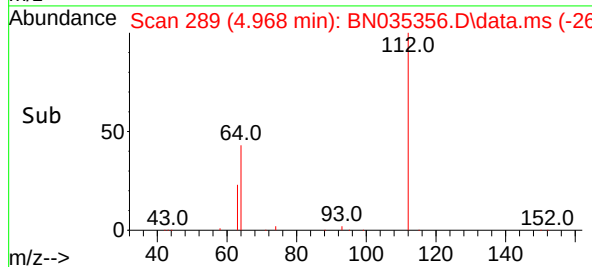
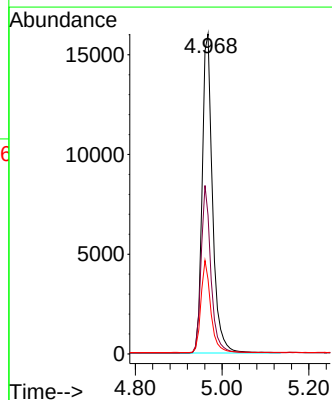
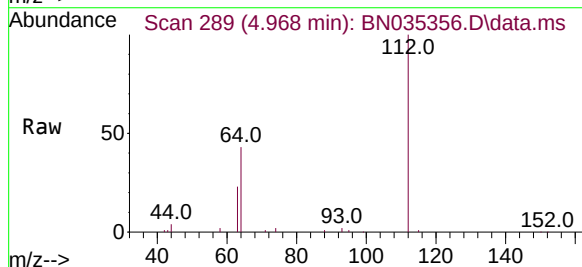
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC5.0

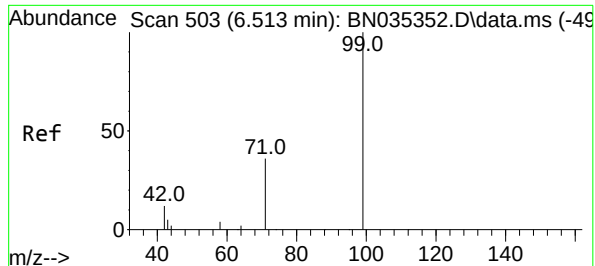
Tgt Ion: 42 Resp: 8681  
Ion Ratio Lower Upper  
42 100  
74 161.2 124.9 187.3  
44 6.7 2.2 3.4#



#4  
2-Fluorophenol  
Concen: 4.637 ng  
RT: 4.968 min Scan# 289  
Delta R.T. 0.000 min  
Lab File: BN035356.D  
Acq: 27 Nov 2024 19:09

Tgt Ion: 112 Resp: 26472  
Ion Ratio Lower Upper  
112 100  
64 50.0 39.8 59.8  
63 27.4 21.0 31.6

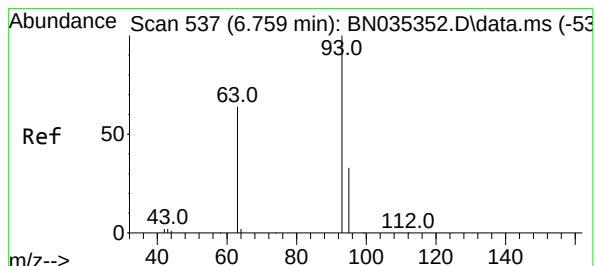
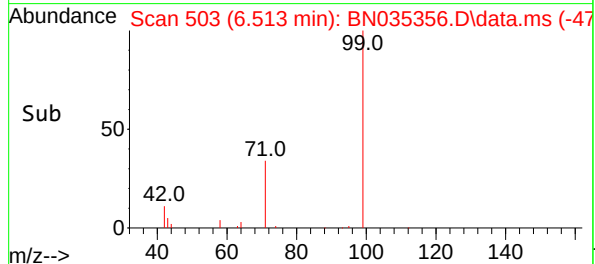
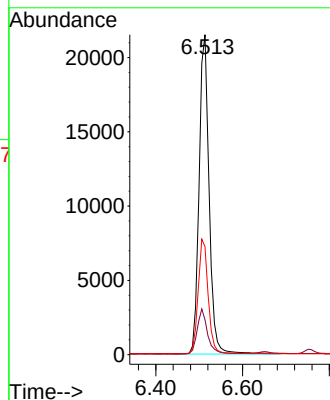
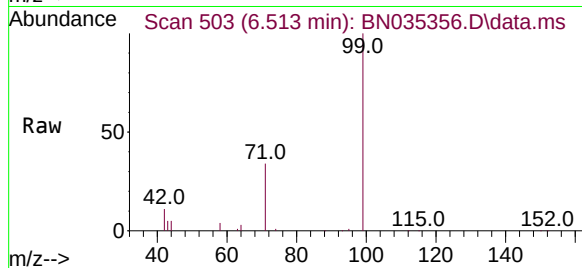




#5  
Phenol-d6  
Concen: 4.828 ng  
RT: 6.513 min Scan# 503  
Delta R.T. 0.000 min  
Lab File: BN035356.D  
Acq: 27 Nov 2024 19:09

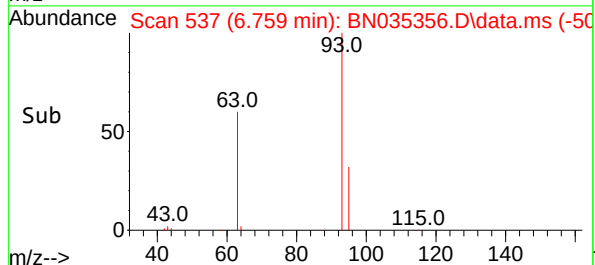
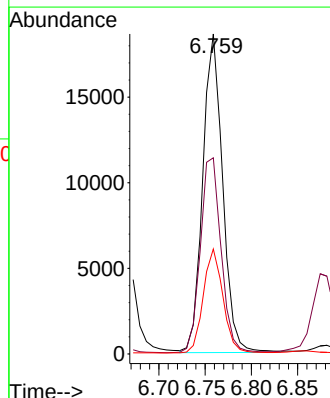
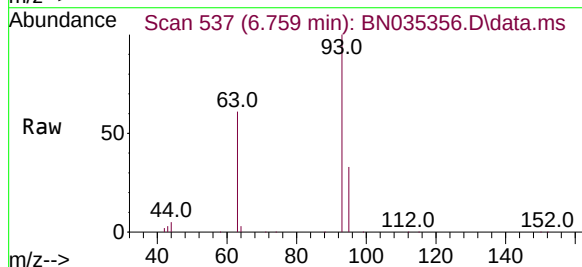
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC5.0

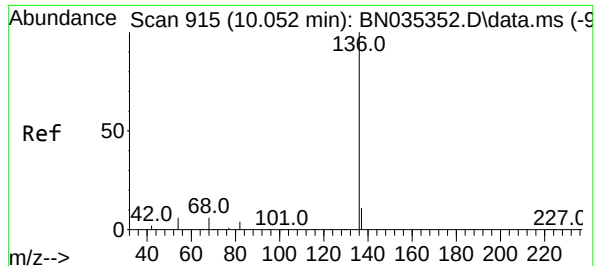
Tgt Ion: 99 Resp: 34560  
Ion Ratio Lower Upper  
99 100  
42 14.1 11.4 17.2  
71 36.4 29.3 43.9



#6  
bis(2-Chloroethyl)ether  
Concen: 5.187 ng  
RT: 6.759 min Scan# 537  
Delta R.T. 0.000 min  
Lab File: BN035356.D  
Acq: 27 Nov 2024 19:09

Tgt Ion: 93 Resp: 27872  
Ion Ratio Lower Upper  
93 100  
63 63.7 50.4 75.6  
95 32.1 25.7 38.5

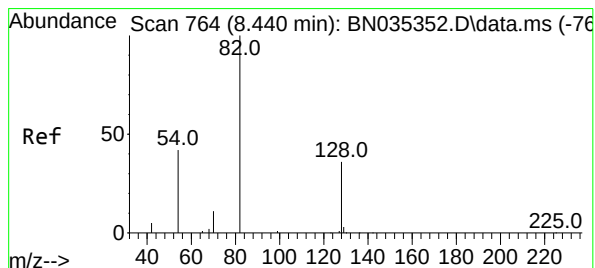
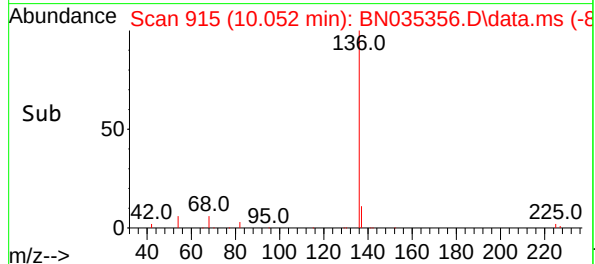
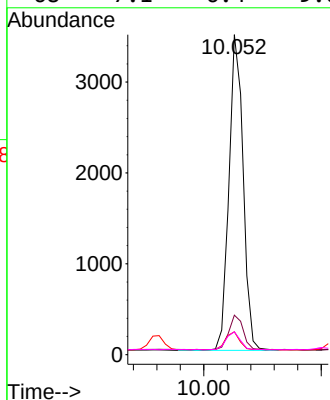
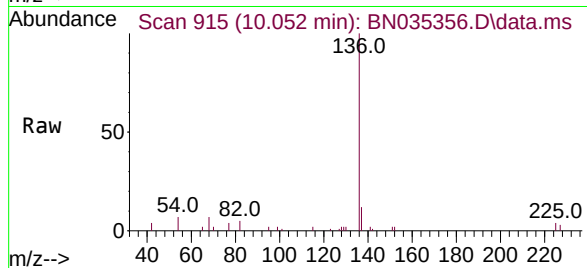




#7  
Naphthalene-d8  
Concen: 0.400 ng  
RT: 10.052 min Scan# 915  
Delta R.T. 0.000 min  
Lab File: BN035356.D  
Acq: 27 Nov 2024 19:09

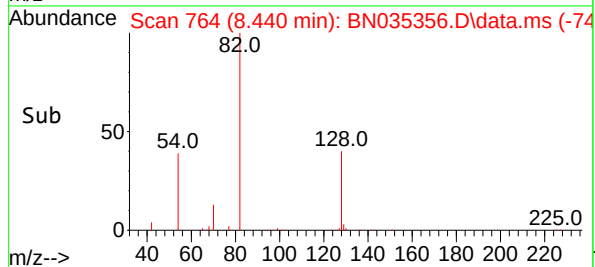
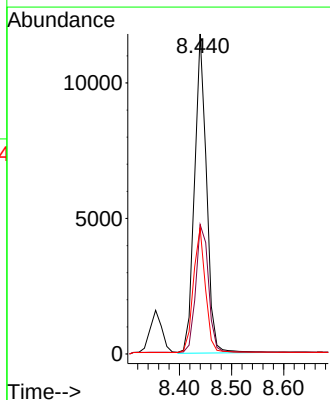
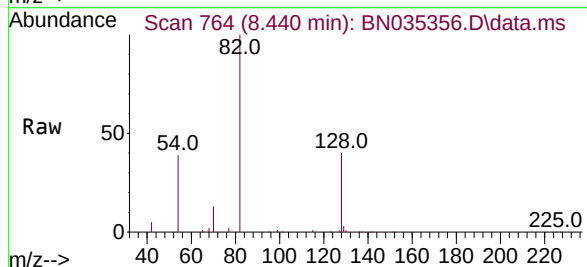
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC5.0

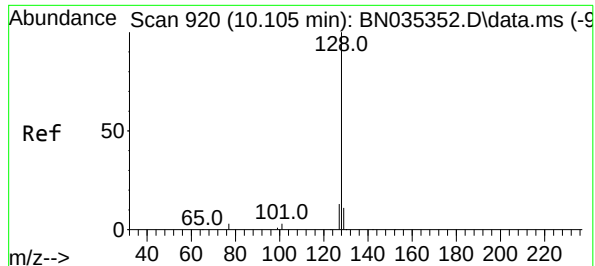
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 136   | Resp: | 5807  |
| Ion      | Ratio | Lower | Upper |
| 136      | 100   |       |       |
| 137      | 12.4  | 10.2  | 15.2  |
| 54       | 7.1   | 6.1   | 9.1   |
| 68       | 7.1   | 6.4   | 9.6   |



#8  
Nitrobenzene-d5  
Concen: 3.741 ng  
RT: 8.440 min Scan# 764  
Delta R.T. 0.000 min  
Lab File: BN035356.D  
Acq: 27 Nov 2024 19:09

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 82    | Resp: | 18911 |
| Ion      | Ratio | Lower | Upper |
| 82       | 100   |       |       |
| 128      | 40.4  | 33.4  | 50.0  |
| 54       | 39.4  | 36.7  | 55.1  |

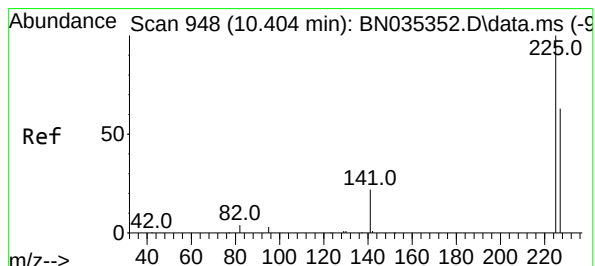
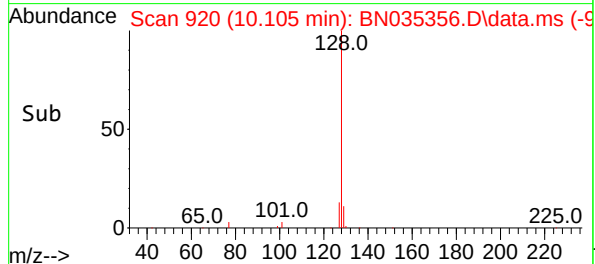
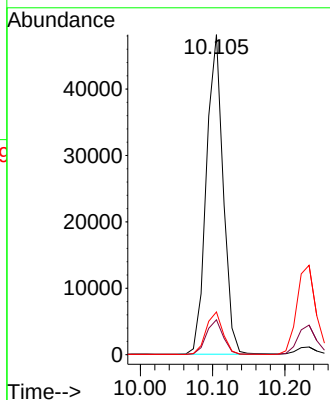
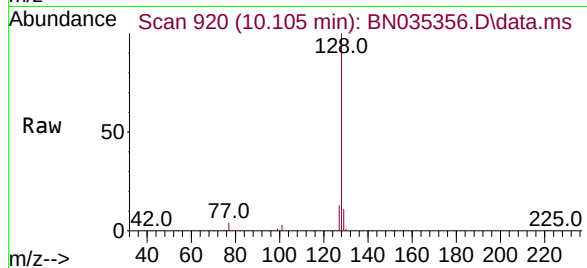




#9  
Naphthalene  
Concen: 5.123 ng  
RT: 10.105 min Scan# 91  
Delta R.T. 0.000 min  
Lab File: BN035356.D  
Acq: 27 Nov 2024 19:09

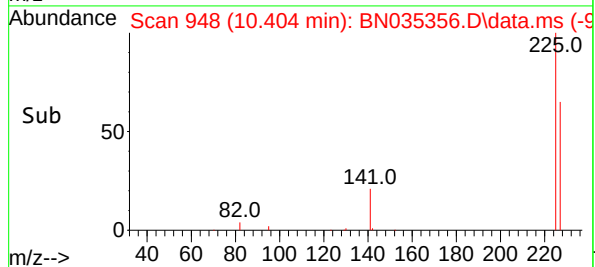
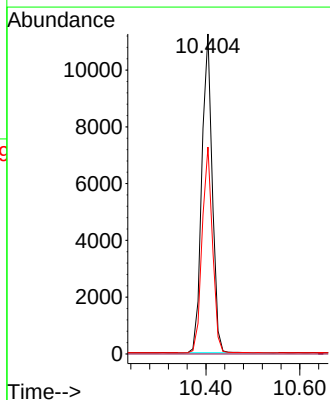
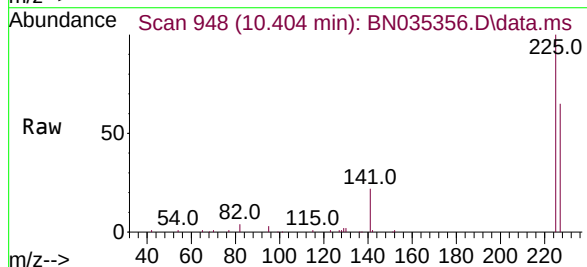
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC5.0

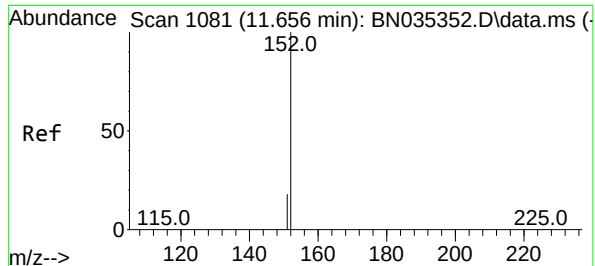
Tgt Ion:128 Resp: 77668  
Ion Ratio Lower Upper  
128 100  
129 10.9 9.8 14.6  
127 13.4 11.4 17.2



#10  
Hexachlorobutadiene  
Concen: 3.887 ng  
RT: 10.404 min Scan# 948  
Delta R.T. 0.000 min  
Lab File: BN035356.D  
Acq: 27 Nov 2024 19:09

Tgt Ion:225 Resp: 17273  
Ion Ratio Lower Upper  
225 100  
223 0.0 0.0 0.0  
227 64.2 51.3 76.9

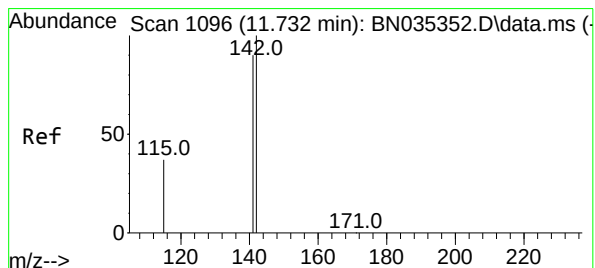
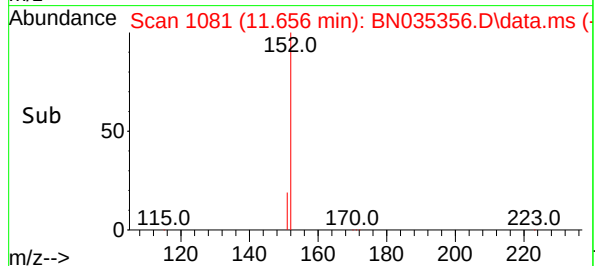
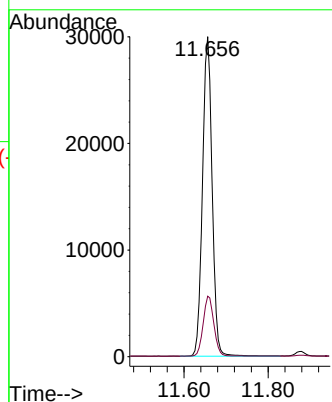
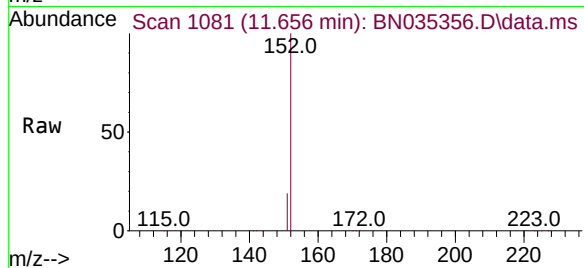




#11  
2-Methylnaphthalene-d10  
Concen: 4.601 ng  
RT: 11.656 min Scan# 1081  
Delta R.T. 0.000 min  
Lab File: BN035356.D  
Acq: 27 Nov 2024 19:09

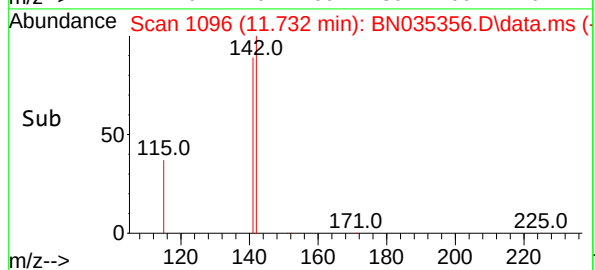
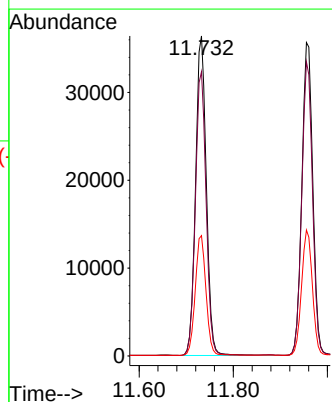
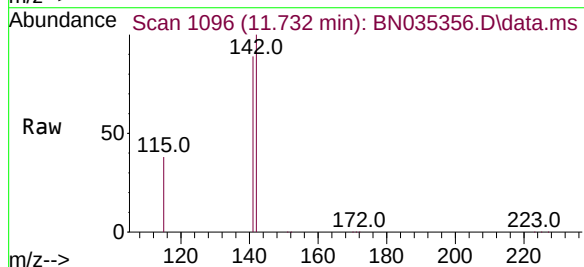
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC5.0

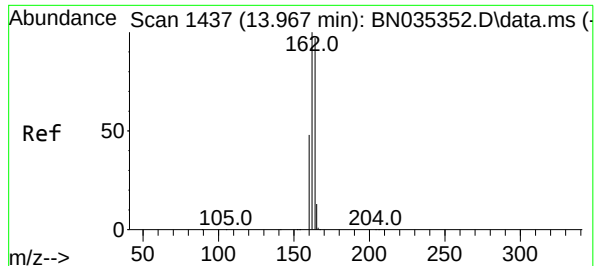
Tgt Ion:152 Resp: 47612  
Ion Ratio Lower Upper  
152 100  
151 20.8 16.6 25.0



#12  
2-Methylnaphthalene  
Concen: 5.158 ng  
RT: 11.732 min Scan# 1096  
Delta R.T. 0.000 min  
Lab File: BN035356.D  
Acq: 27 Nov 2024 19:09

Tgt Ion:142 Resp: 57698  
Ion Ratio Lower Upper  
142 100  
141 88.8 72.2 108.4  
115 37.6 31.4 47.0

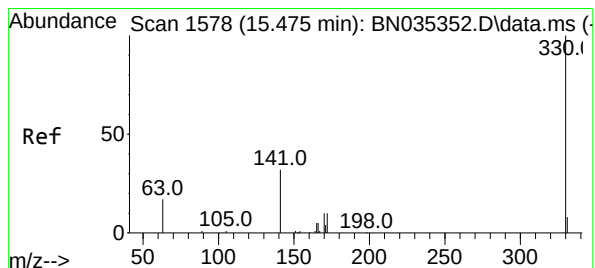
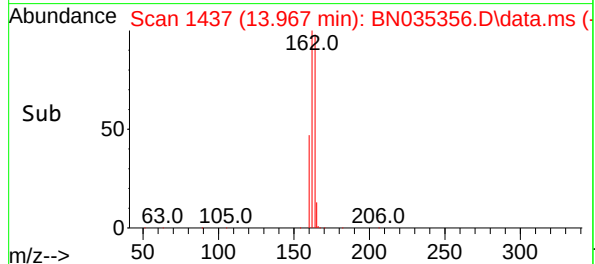
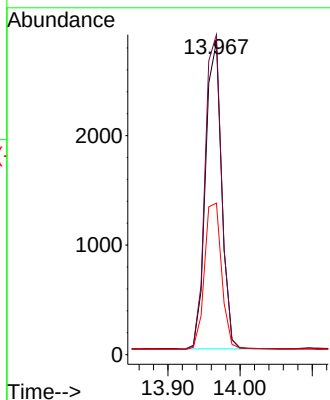
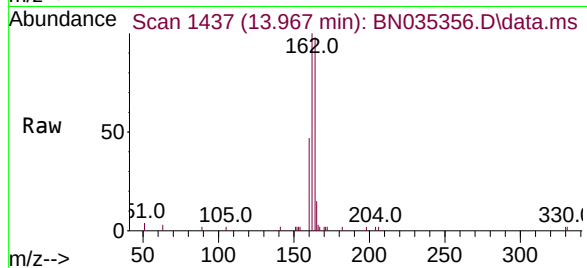




#13  
Acenaphthene-d10  
Concen: 0.400 ng  
RT: 13.967 min Scan# 1437  
Delta R.T. 0.000 min  
Lab File: BN035356.D  
Acq: 27 Nov 2024 19:09

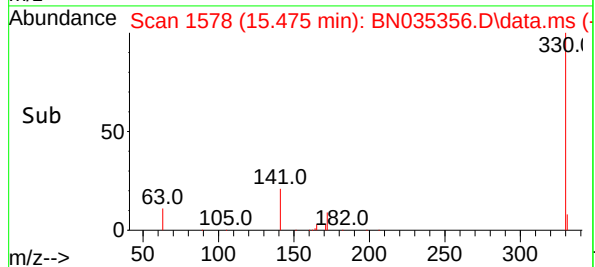
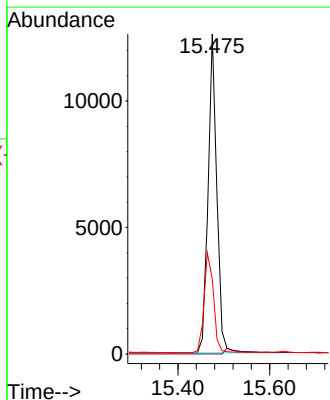
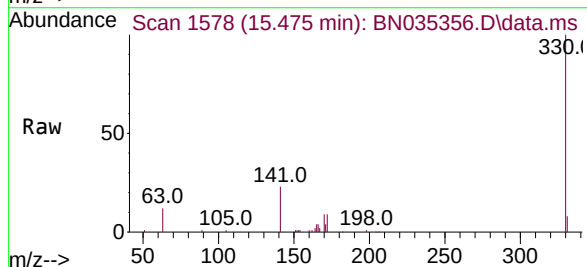
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC5.0

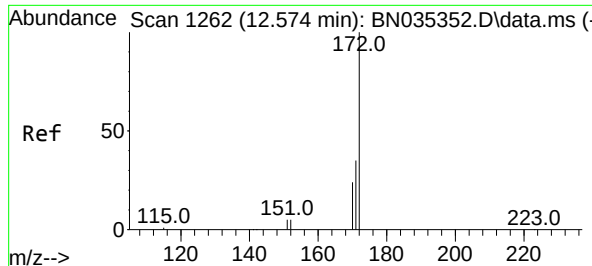
Tgt Ion:164 Resp: 4363  
Ion Ratio Lower Upper  
164 100  
162 102.2 82.2 123.2  
160 48.4 40.1 60.1



#14  
2,4,6-Tribromophenol  
Concen: 5.689 ng  
RT: 15.475 min Scan# 1578  
Delta R.T. 0.000 min  
Lab File: BN035356.D  
Acq: 27 Nov 2024 19:09

Tgt Ion:330 Resp: 17905  
Ion Ratio Lower Upper  
330 100  
332 0.0 0.0 0.0  
141 33.4 26.6 40.0

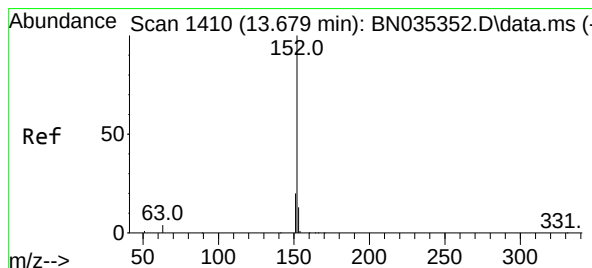
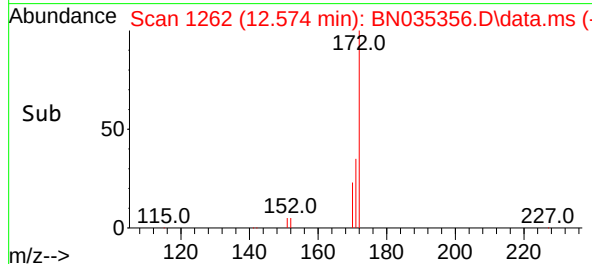
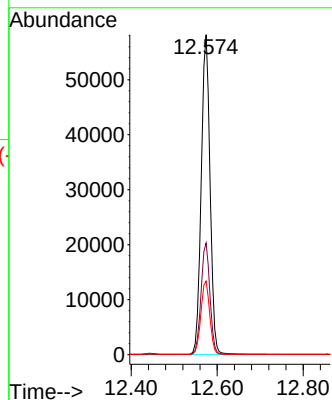
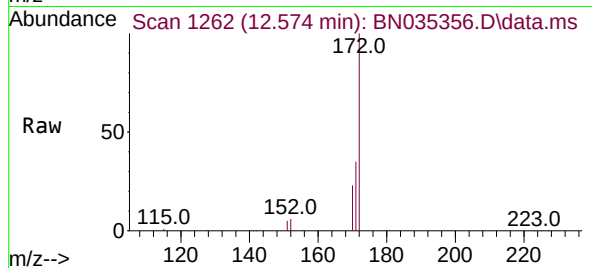




#15  
2-Fluorobiphenyl  
Concen: 4.650 ng  
RT: 12.574 min Scan# 1262  
Delta R.T. 0.000 min  
Lab File: BN035356.D  
Acq: 27 Nov 2024 19:09

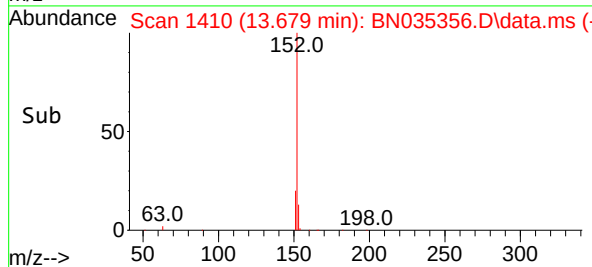
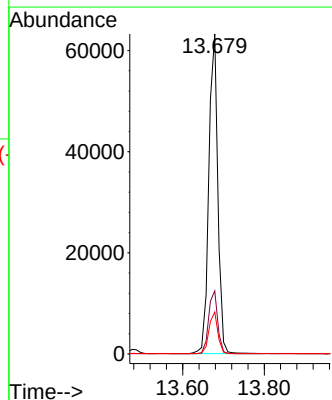
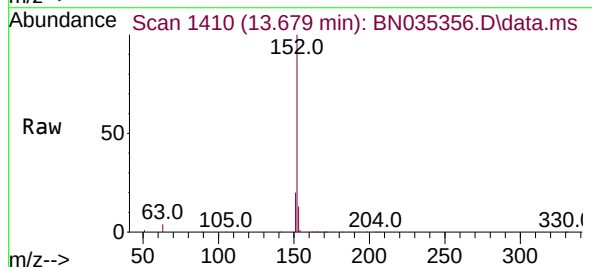
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC5.0

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 172     | 100   |       |       |
| 171     | 34.9  | 29.0  | 43.4  |
| 170     | 23.0  | 19.8  | 29.8  |

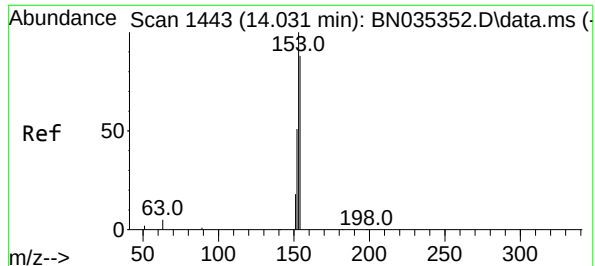


#16  
Acenaphthylene  
Concen: 5.209 ng  
RT: 13.679 min Scan# 1410  
Delta R.T. 0.000 min  
Lab File: BN035356.D  
Acq: 27 Nov 2024 19:09

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 151     | 19.7  | 16.2  | 24.2  |
| 153     | 12.9  | 10.4  | 15.6  |



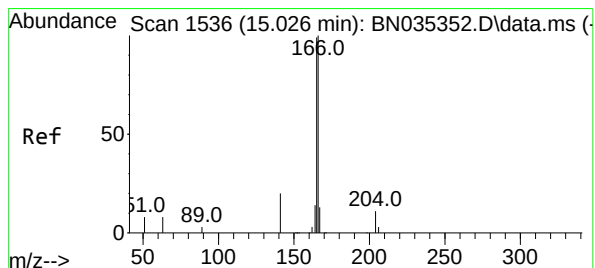
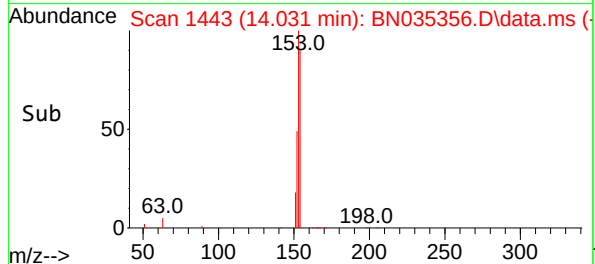
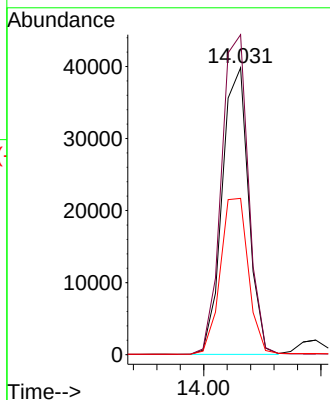
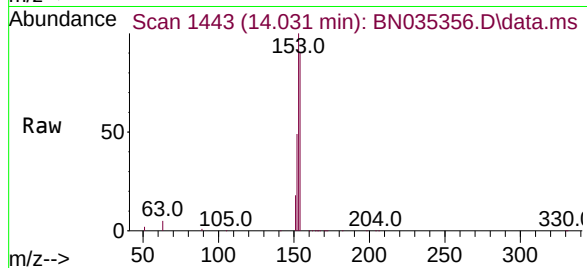




#17  
Acenaphthene  
Concen: 5.088 ng  
RT: 14.031 min Scan# 1443  
Delta R.T. 0.000 min  
Lab File: BN035356.D  
Acq: 27 Nov 2024 19:09

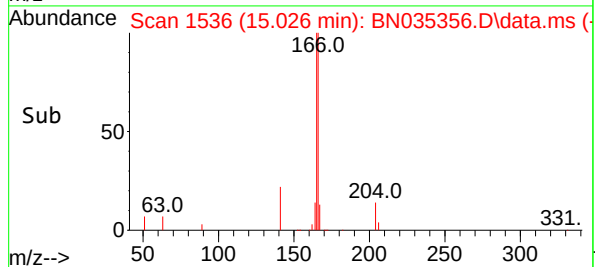
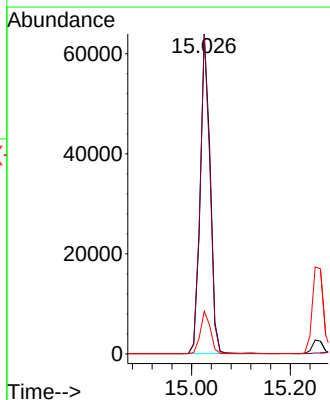
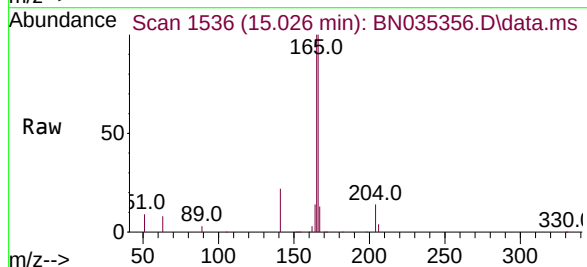
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC5.0

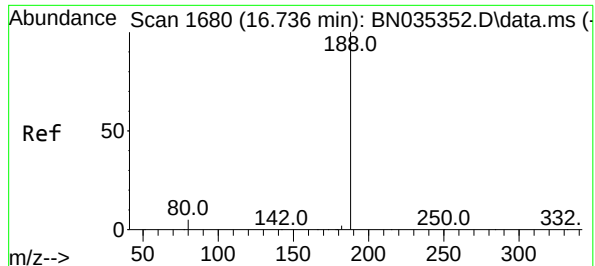
Tgt Ion:154 Resp: 62170  
Ion Ratio Lower Upper  
154 100  
153 114.7 92.6 139.0  
152 58.1 49.0 73.6



#18  
Fluorene  
Concen: 4.932 ng  
RT: 15.026 min Scan# 1536  
Delta R.T. 0.000 min  
Lab File: BN035356.D  
Acq: 27 Nov 2024 19:09

Tgt Ion:166 Resp: 88648  
Ion Ratio Lower Upper  
166 100  
165 98.5 79.7 119.5  
167 13.4 10.8 16.2





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 16.723 min Scan# 1

Delta R.T. -0.012 min

Lab File: BN035356.D

Acq: 27 Nov 2024 19:09

Instrument :

BNA\_N

ClientSampleId :

SSTDICC5.0

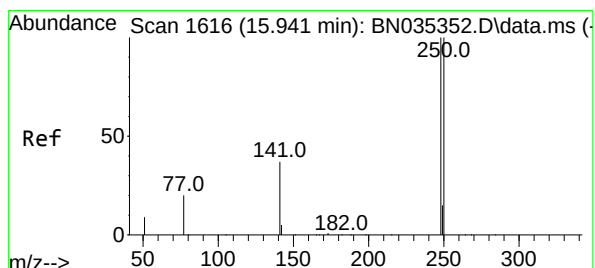
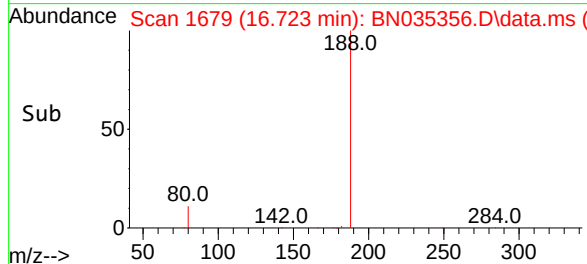
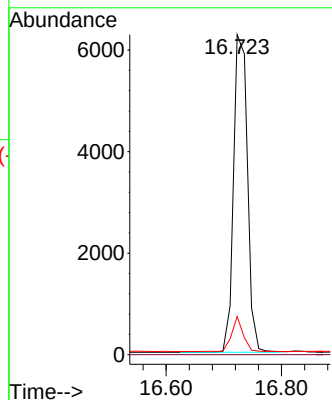
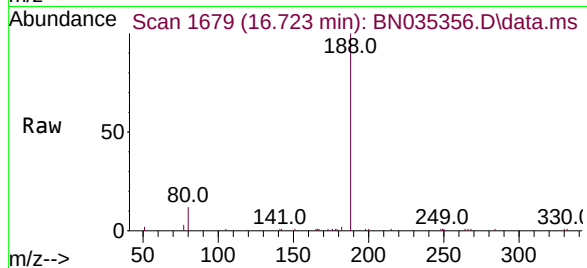
Tgt Ion:188 Resp: 10479

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 11.9 4.6 6.8#



#21

4-Bromophenyl-phenylether

Concen: 4.785 ng

RT: 15.941 min Scan# 1616

Delta R.T. 0.000 min

Lab File: BN035356.D

Acq: 27 Nov 2024 19:09

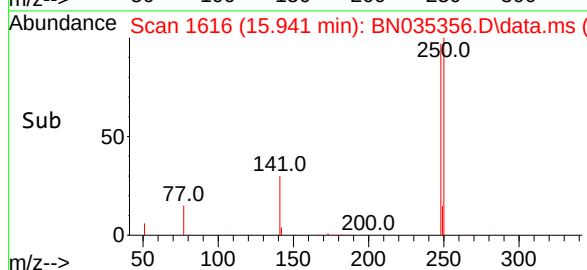
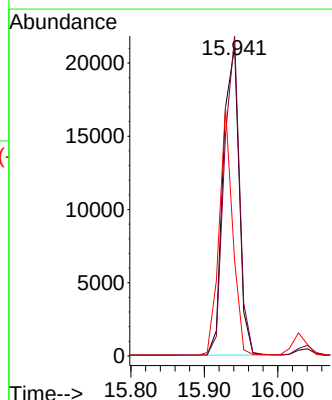
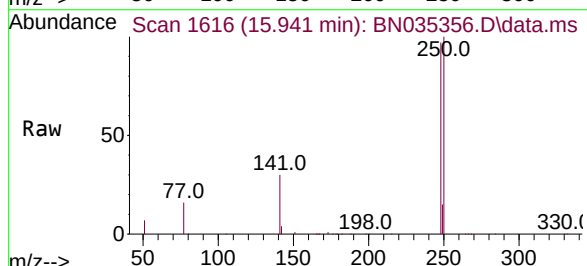
Tgt Ion:248 Resp: 31947

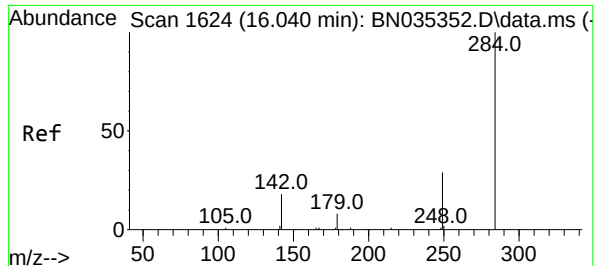
Ion Ratio Lower Upper

248 100

250 103.5 80.6 120.8

141 30.8 31.5 47.3#

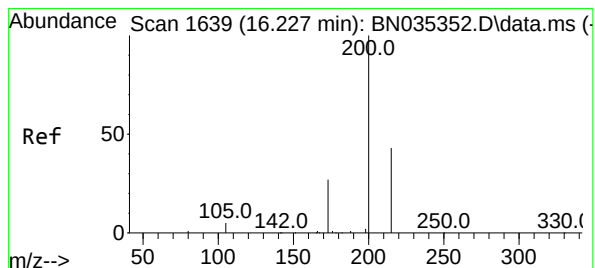
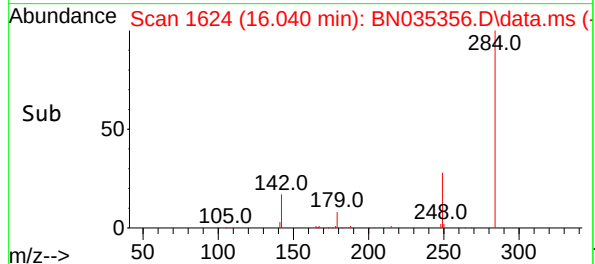
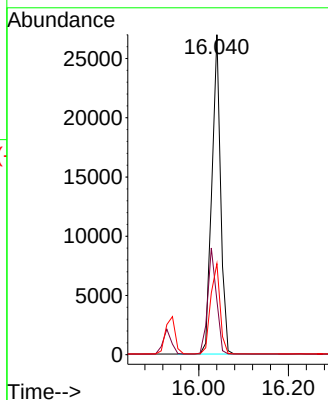
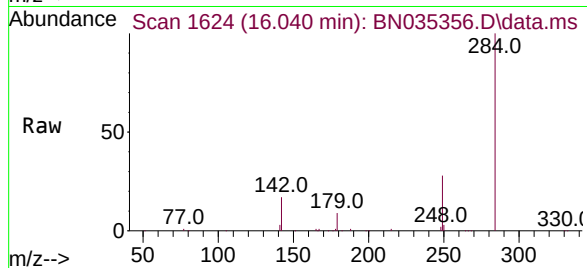




#22  
Hexachlorobenzene  
Concen: 5.241 ng  
RT: 16.040 min Scan# 1624  
Delta R.T. 0.000 min  
Lab File: BN035356.D  
Acq: 27 Nov 2024 19:09

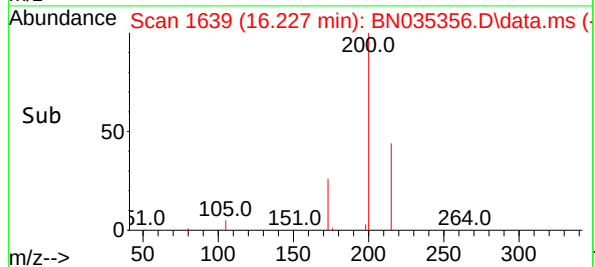
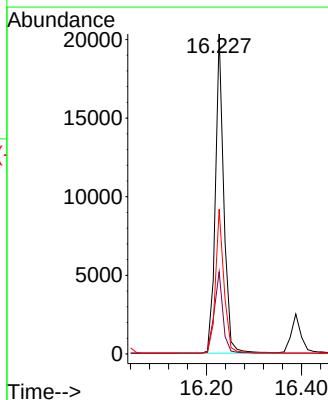
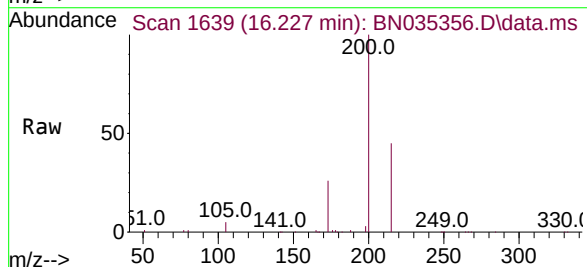
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC5.0

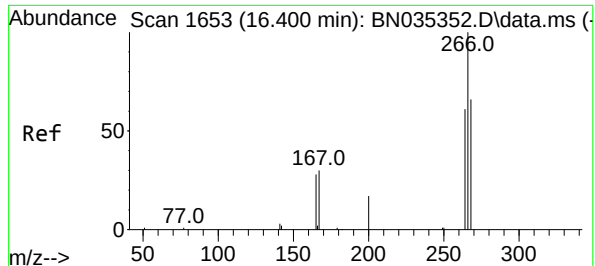
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 284     | 100   |       |       |
| 142     | 33.4  | 26.7  | 40.1  |
| 249     | 30.4  | 24.6  | 36.8  |



#23  
Atrazine  
Concen: 4.179 ng  
RT: 16.227 min Scan# 1639  
Delta R.T. 0.000 min  
Lab File: BN035356.D  
Acq: 27 Nov 2024 19:09

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 200     | 100   |       |       |
| 173     | 25.7  | 24.1  | 36.1  |
| 215     | 45.2  | 36.9  | 55.3  |





#24

Pentachlorophenol

Concen: 6.083 ng

RT: 16.388 min Scan# 1652

Delta R.T. -0.012 min

Lab File: BN035356.D

Acq: 27 Nov 2024 19:09

Instrument :

BNA\_N

ClientSampleId :

SSTDICC5.0

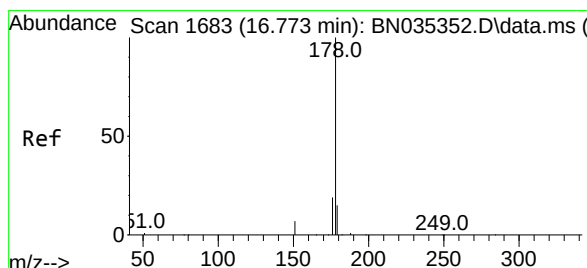
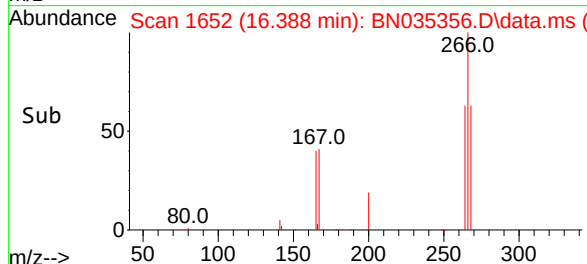
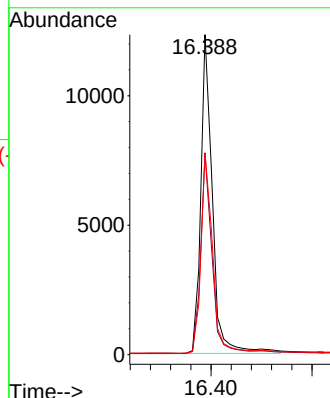
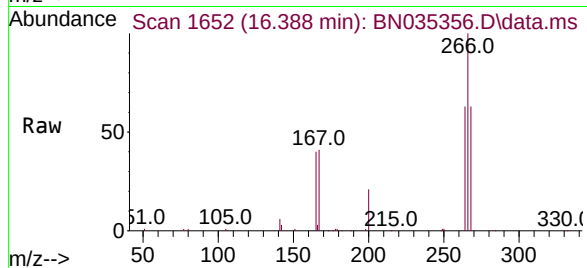
Tgt Ion:266 Resp: 19691

Ion Ratio Lower Upper

266 100

264 62.6 42.3 63.5

268 64.1 43.3 64.9



#25

Phenanthrene

Concen: 5.343 ng

RT: 16.773 min Scan# 1683

Delta R.T. 0.000 min

Lab File: BN035356.D

Acq: 27 Nov 2024 19:09

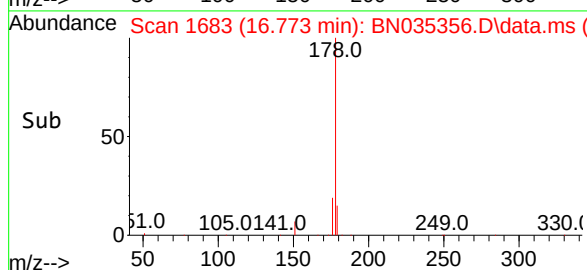
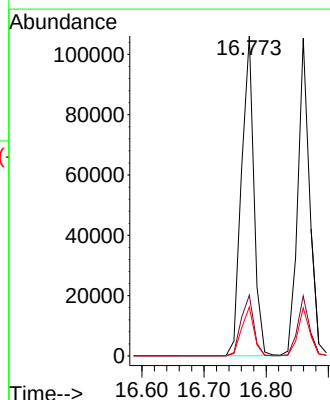
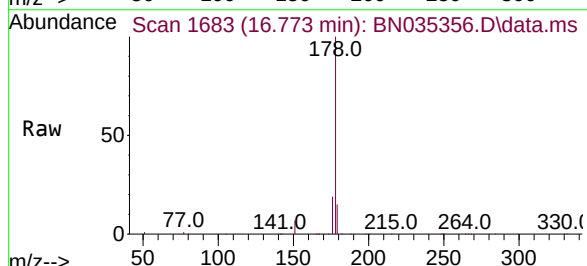
Tgt Ion:178 Resp: 147357

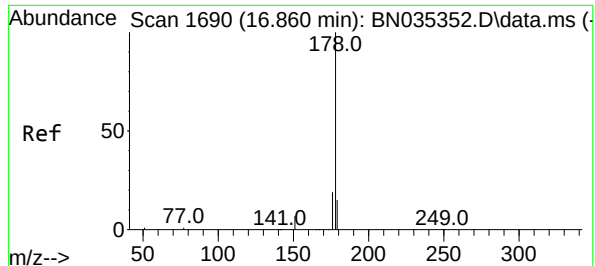
Ion Ratio Lower Upper

178 100

176 19.4 15.4 23.2

179 15.2 12.3 18.5

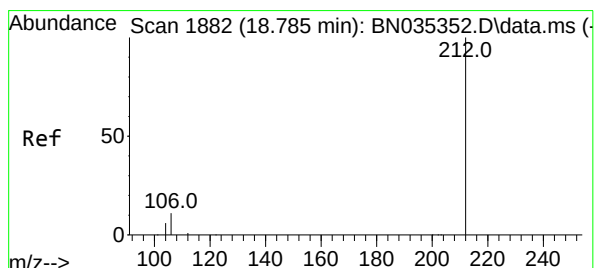
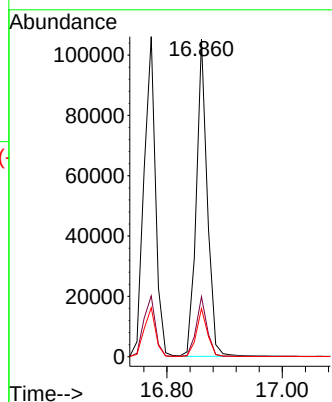
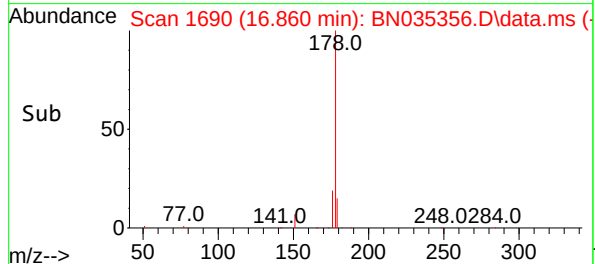
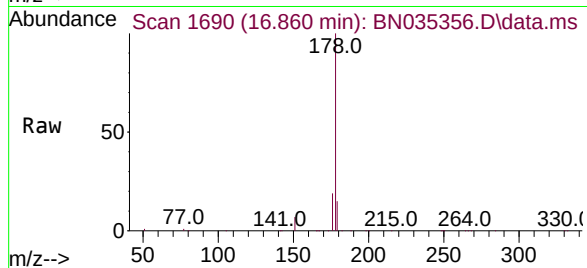




#26  
Anthracene  
Concen: 5.503 ng  
RT: 16.860 min Scan# 1690  
Delta R.T. 0.000 min  
Lab File: BN035356.D  
Acq: 27 Nov 2024 19:09

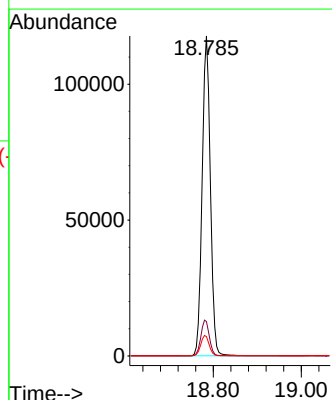
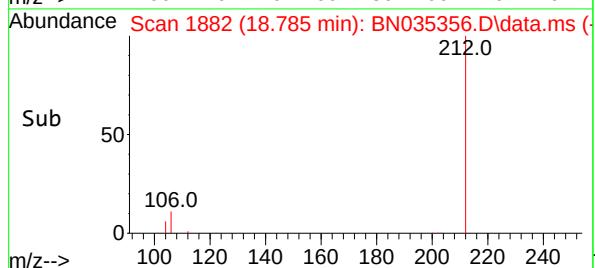
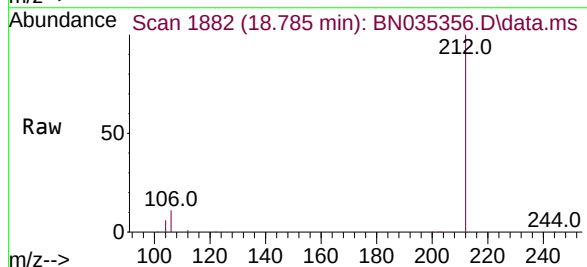
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC5.0

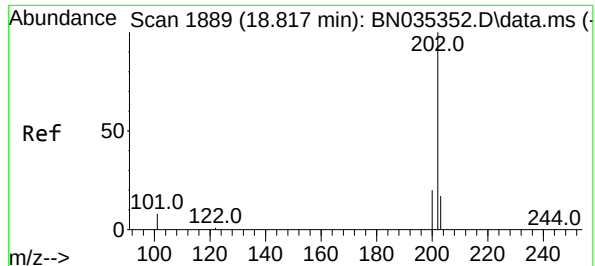
Tgt Ion:178 Resp: 139399  
Ion Ratio Lower Upper  
178 100  
176 18.7 15.0 22.6  
179 15.1 12.6 18.8



#27  
Fluoranthene-d10  
Concen: 4.748 ng  
RT: 18.785 min Scan# 1882  
Delta R.T. 0.000 min  
Lab File: BN035356.D  
Acq: 27 Nov 2024 19:09

Tgt Ion:212 Resp: 152416  
Ion Ratio Lower Upper  
212 100  
106 11.5 9.2 13.8  
104 6.5 5.3 7.9

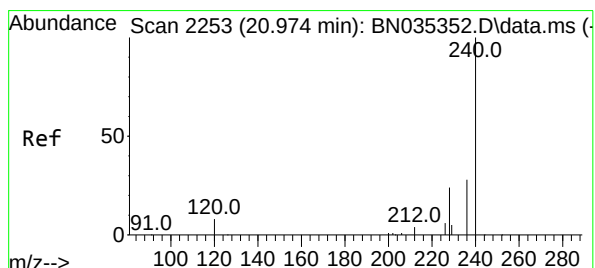
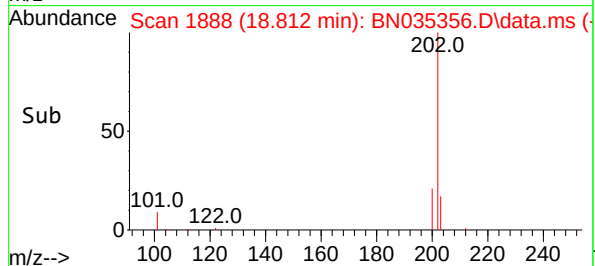
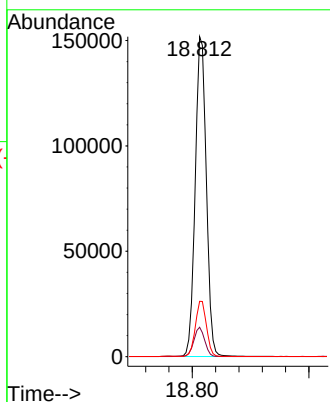
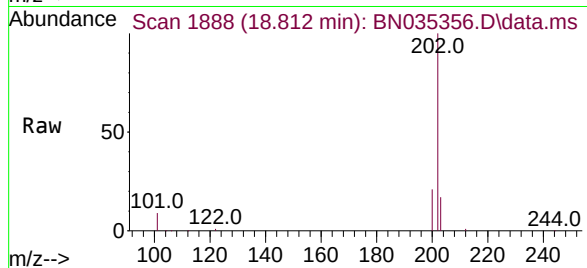




#28  
Fluoranthene  
Concen: 5.270 ng  
RT: 18.812 min Scan# 1888  
Delta R.T. -0.005 min  
Lab File: BN035356.D  
Acq: 27 Nov 2024 19:09

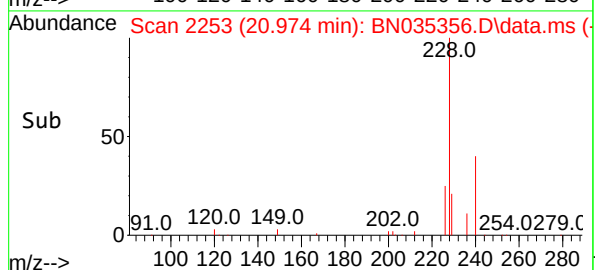
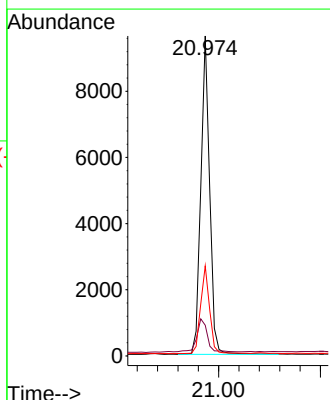
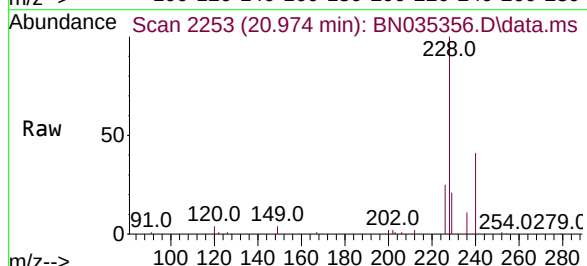
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC5.0

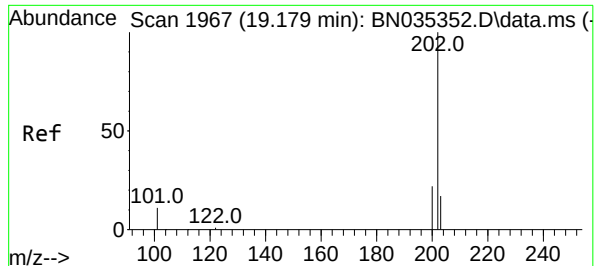
Tgt Ion:202 Resp: 199850  
Ion Ratio Lower Upper  
202 100  
101 9.1 7.4 11.0  
203 17.4 13.7 20.5



#29  
Chrysene-d12  
Concen: 0.400 ng  
RT: 20.974 min Scan# 2253  
Delta R.T. 0.000 min  
Lab File: BN035356.D  
Acq: 27 Nov 2024 19:09

Tgt Ion:240 Resp: 11520  
Ion Ratio Lower Upper  
240 100  
120 9.6 7.9 11.9  
236 28.1 22.9 34.3





#30

Pyrene

Concen: 5.370 ng

RT: 19.179 min Scan# 1967

Delta R.T. 0.000 min

Lab File: BN035356.D

Acq: 27 Nov 2024 19:09

Instrument :

BNA\_N

ClientSampleId :

SSTDICC5.0

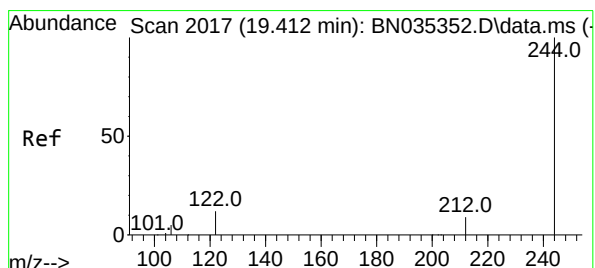
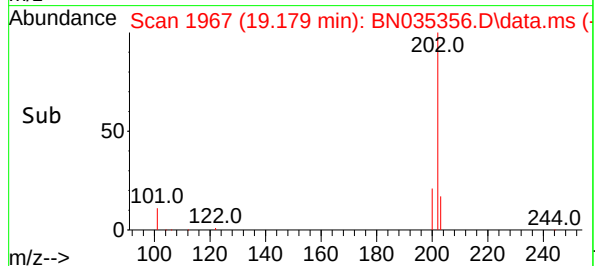
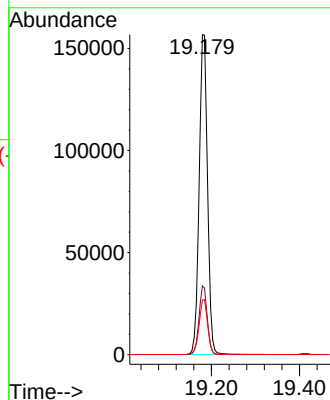
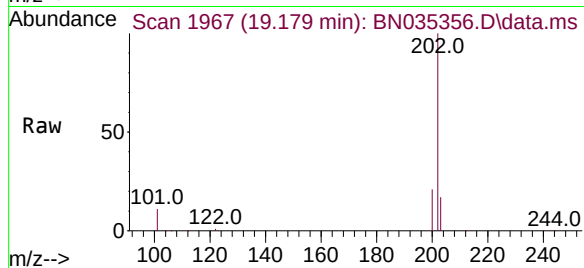
Tgt Ion:202 Resp: 206018

Ion Ratio Lower Upper

202 100

200 21.2 17.0 25.4

203 17.7 14.3 21.5



#31

Terphenyl-d14

Concen: 4.581 ng

RT: 19.412 min Scan# 2017

Delta R.T. 0.000 min

Lab File: BN035356.D

Acq: 27 Nov 2024 19:09

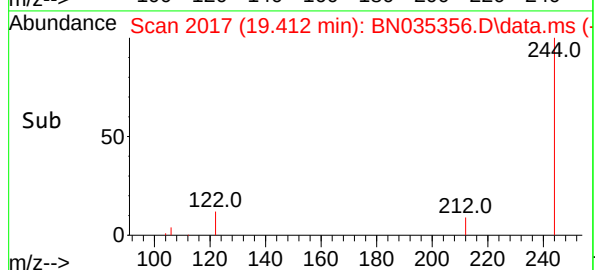
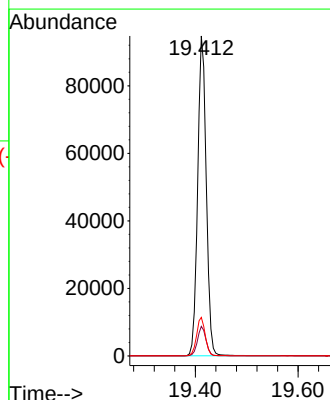
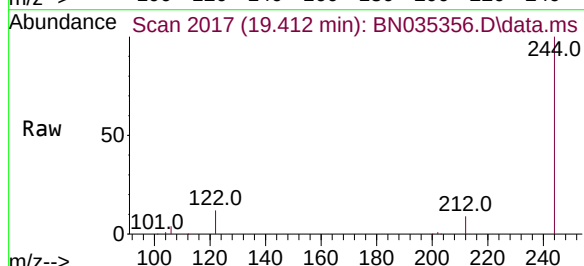
Tgt Ion:244 Resp: 110737

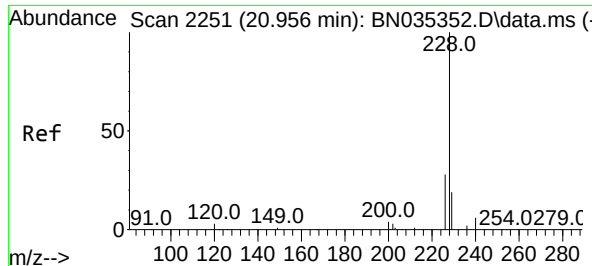
Ion Ratio Lower Upper

244 100

212 9.2 8.1 12.1

122 12.1 10.3 15.5

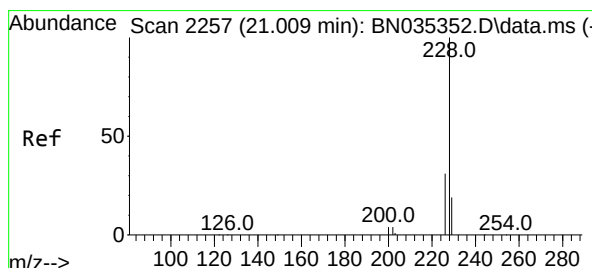
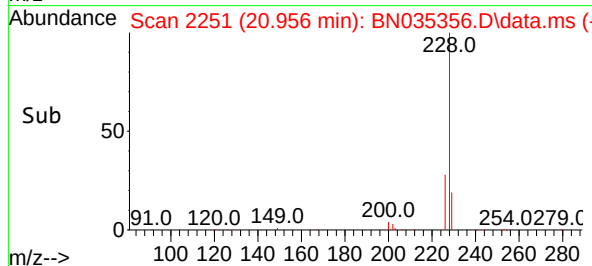
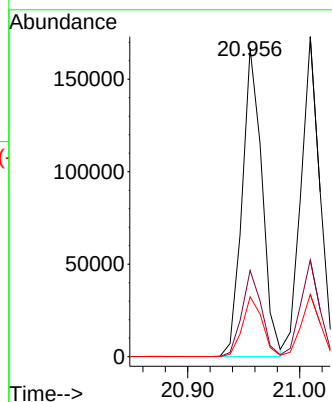
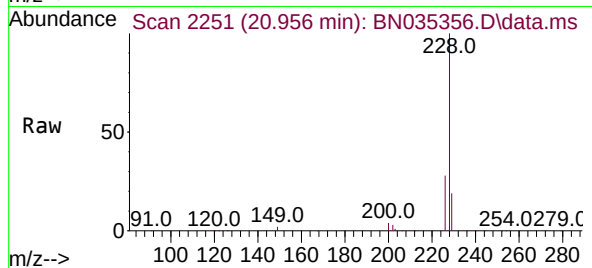




#32  
Benzo(a)anthracene  
Concen: 5.128 ng  
RT: 20.956 min Scan# 21  
Delta R.T. 0.000 min  
Lab File: BN035356.D  
Acq: 27 Nov 2024 19:09

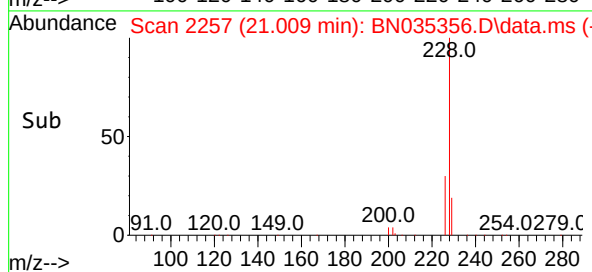
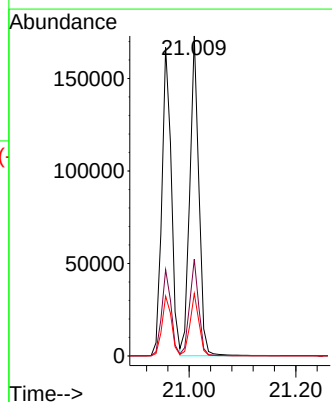
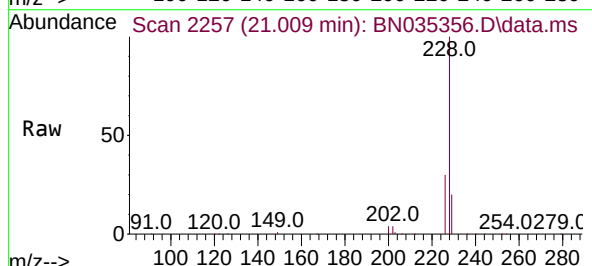
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC5.0

Tgt Ion:228 Resp: 205712  
Ion Ratio Lower Upper  
228 100  
226 27.9 22.5 33.7  
229 19.4 15.8 23.8

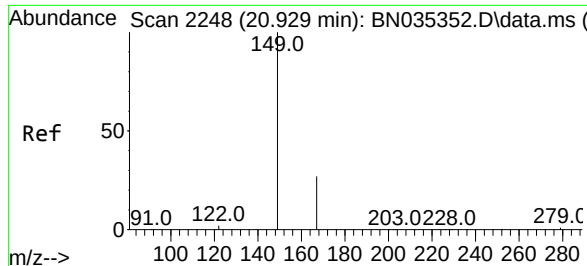


#33  
Chrysene  
Concen: 5.146 ng  
RT: 21.009 min Scan# 2257  
Delta R.T. 0.000 min  
Lab File: BN035356.D  
Acq: 27 Nov 2024 19:09

Tgt Ion:228 Resp: 204475  
Ion Ratio Lower Upper  
228 100  
226 30.2 24.6 37.0  
229 19.5 15.9 23.9



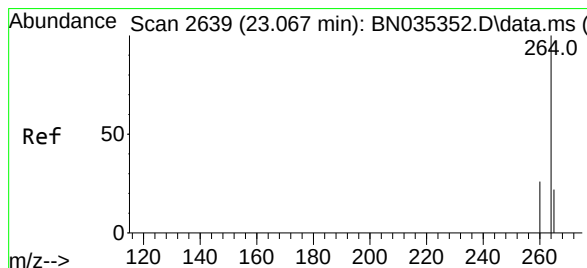
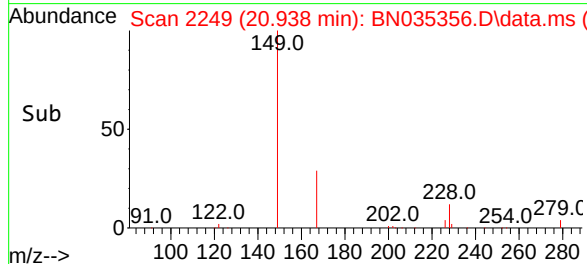
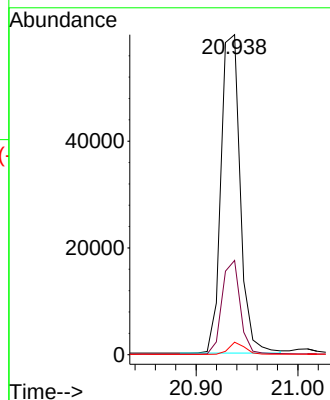
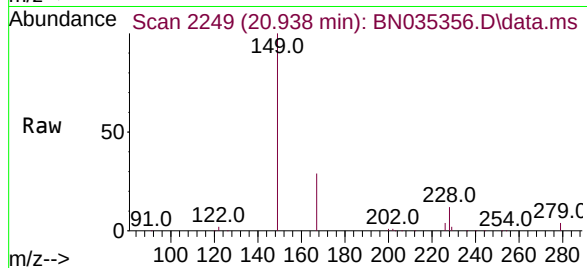




#34  
Bis(2-ethylhexyl)phthalate  
Concen: 3.721 ng  
RT: 20.938 min Scan# 21  
Delta R.T. 0.009 min  
Lab File: BN035356.D  
Acq: 27 Nov 2024 19:09

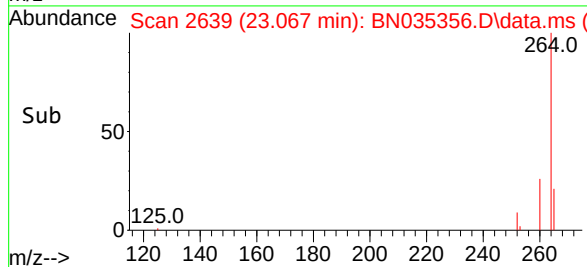
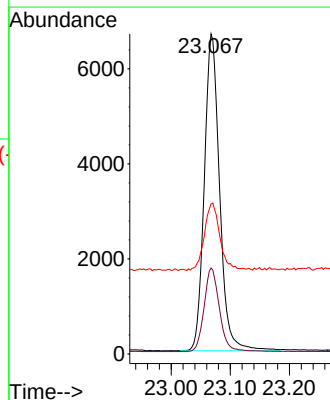
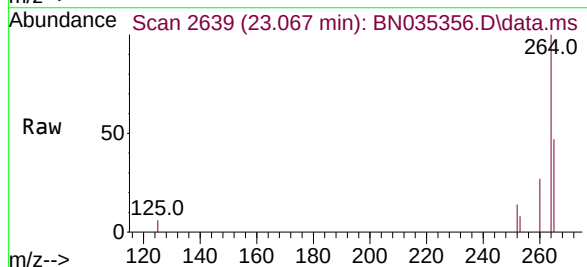
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC5.0

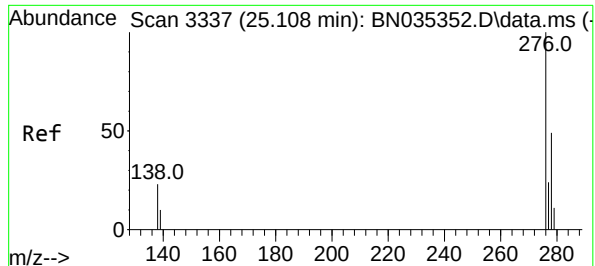
Tgt Ion:149 Resp: 78322  
Ion Ratio Lower Upper  
149 100  
167 28.1 22.2 33.4  
279 3.2 2.7 4.1



#35  
Perylene-d12  
Concen: 0.400 ng  
RT: 23.067 min Scan# 2639  
Delta R.T. 0.000 min  
Lab File: BN035356.D  
Acq: 27 Nov 2024 19:09

Tgt Ion:264 Resp: 12000  
Ion Ratio Lower Upper  
264 100  
260 26.9 21.4 32.2  
265 46.8 40.2 60.4





#36

Indeno(1,2,3-cd)pyrene

Concen: 5.279 ng

RT: 25.108 min Scan# 31

Delta R.T. 0.000 min

Lab File: BN035356.D

Acq: 27 Nov 2024 19:09

Instrument :

BNA\_N

ClientSampleId :

SSTDICC5.0

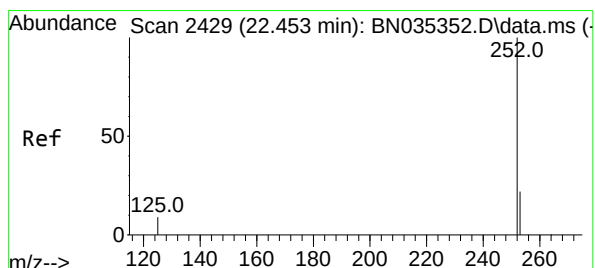
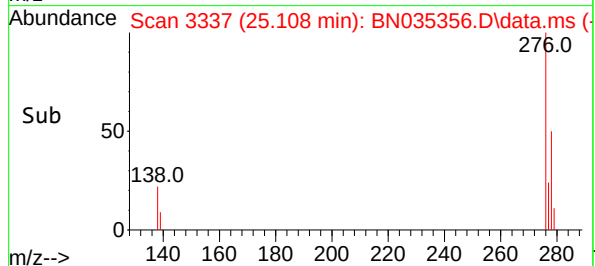
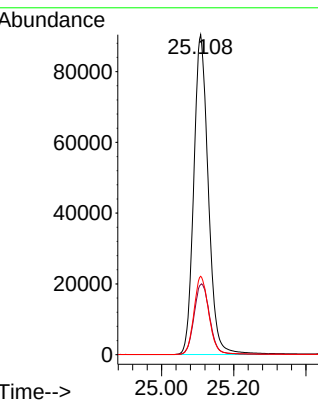
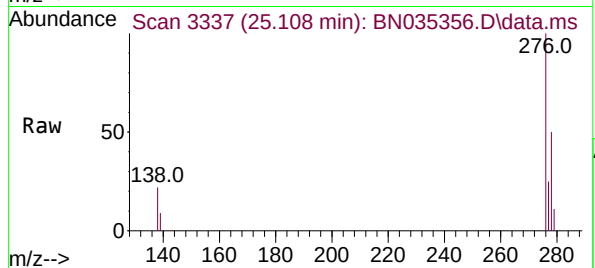
Tgt Ion:276 Resp: 252709

Ion Ratio Lower Upper

276 100

138 23.7 19.4 29.0

277 25.0 19.8 29.6



#37

Benzo(b)fluoranthene

Concen: 5.974 ng

RT: 22.456 min Scan# 2430

Delta R.T. 0.003 min

Lab File: BN035356.D

Acq: 27 Nov 2024 19:09

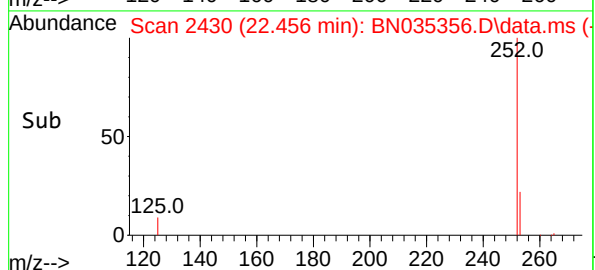
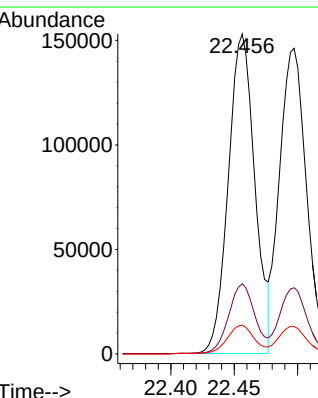
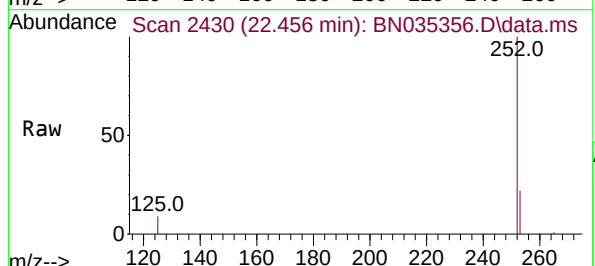
Tgt Ion:252 Resp: 241201

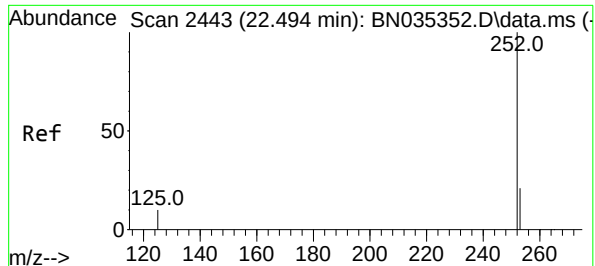
Ion Ratio Lower Upper

252 100

253 22.0 19.6 29.4

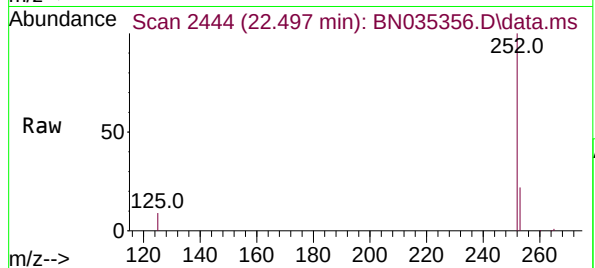
125 9.0 9.6 14.4#



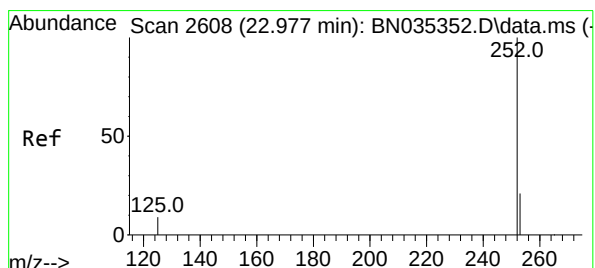
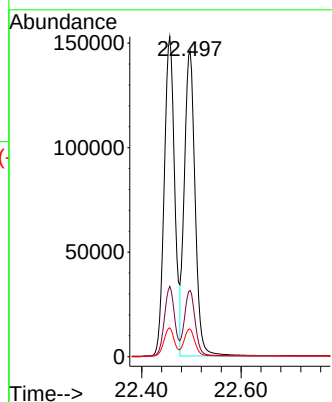


#38  
Benzo(k)fluoranthene  
Concen: 5.449 ng  
RT: 22.497 min Scan# 2444  
Delta R.T. 0.003 min  
Lab File: BN035356.D  
Acq: 27 Nov 2024 19:09

Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC5.0

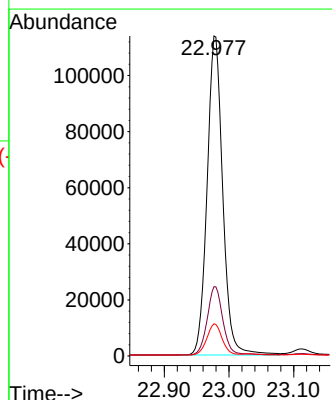
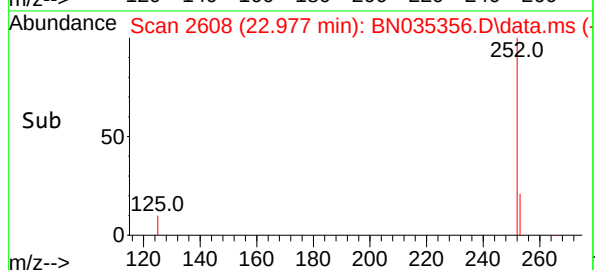
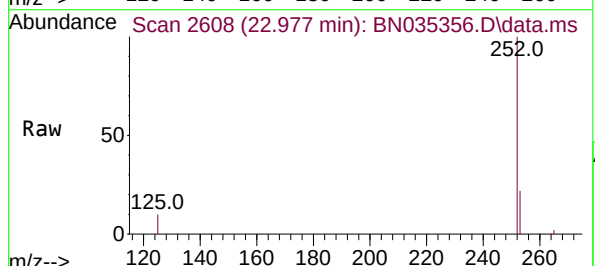


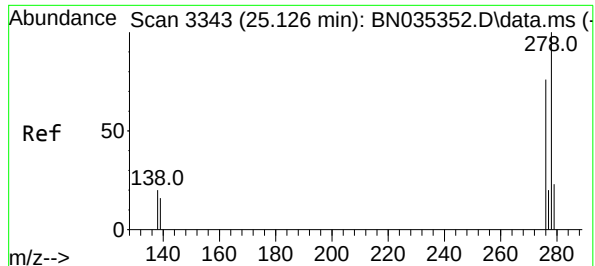
Tgt Ion:252 Resp: 220146  
Ion Ratio Lower Upper  
252 100  
253 21.7 19.5 29.3  
125 9.0 10.2 15.4#



#39  
Benzo(a)pyrene  
Concen: 5.367 ng  
RT: 22.977 min Scan# 2608  
Delta R.T. 0.000 min  
Lab File: BN035356.D  
Acq: 27 Nov 2024 19:09

Tgt Ion:252 Resp: 190665  
Ion Ratio Lower Upper  
252 100  
253 21.6 20.2 30.4  
125 10.0 10.9 16.3#





#40

Dibenzo(a,h)anthracene

Concen: 5.269 ng

RT: 25.126 min Scan# 31

Delta R.T. 0.000 min

Lab File: BN035356.D

Acq: 27 Nov 2024 19:09

Instrument :

BNA\_N

ClientSampleId :

SSTDICC5.0

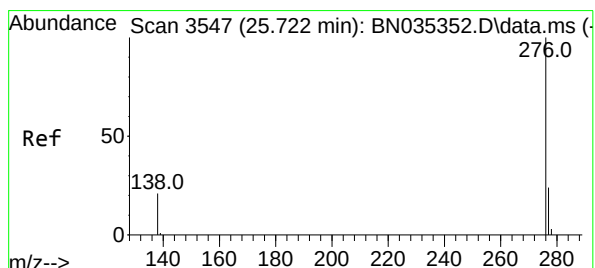
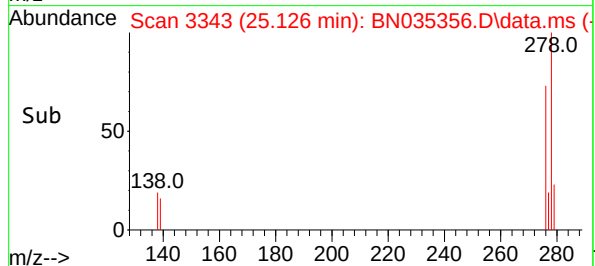
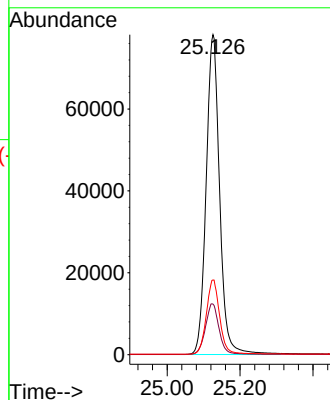
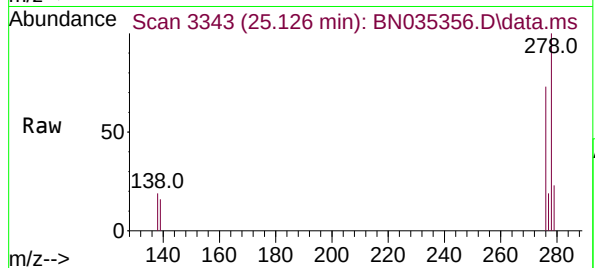
Tgt Ion:278 Resp: 199852

Ion Ratio Lower Upper

278 100

139 15.8 14.2 21.4

279 23.3 20.5 30.7



#41

Benzo(g,h,i)perylene

Concen: 5.183 ng

RT: 25.725 min Scan# 3548

Delta R.T. 0.003 min

Lab File: BN035356.D

Acq: 27 Nov 2024 19:09

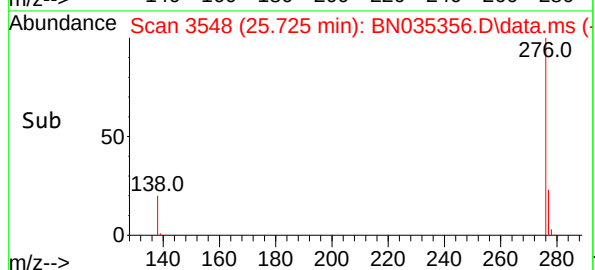
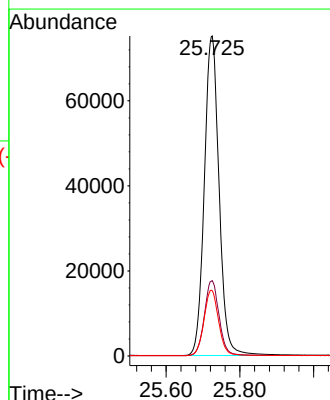
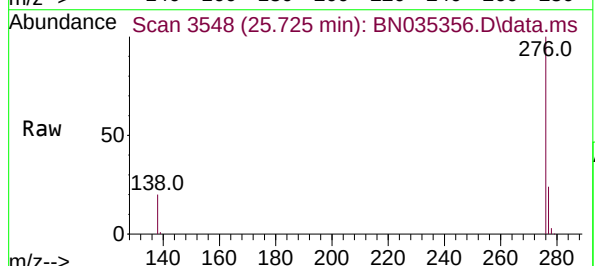
Tgt Ion:276 Resp: 209119

Ion Ratio Lower Upper

276 100

277 23.5 19.9 29.9

138 20.4 17.8 26.8



Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN112724\  
 Data File : BN035357.D  
 Acq On : 27 Nov 2024 20:21  
 Operator : RC/JU  
 Sample : SSTDICV0.4  
 Misc :  
 ALS Vial : 10 Sample Multiplier: 1

Instrument :  
 BNA\_N  
 ClientSampleId :  
 ICVBN112724

Manual Integrations  
 APPROVED

Reviewed By :Yogesh Patel 11/29/2024  
 Supervised By :mohammad ahmed 11/29/2024

Quant Time: Nov 27 23:06:03 2024  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\8270-SIM-BN112724.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Wed Nov 27 23:03:24 2024  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc  | Units | Dev(Min) |
|-------------------------------|--------|------|----------|-------|-------|----------|
| -----                         |        |      |          |       |       |          |
| Internal Standards            |        |      |          |       |       |          |
| 1) 1,4-Dichlorobenzene-d4     | 7.308  | 152  | 1540     | 0.400 | ng    | 0.00     |
| 7) Naphthalene-d8             | 10.052 | 136  | 3904     | 0.400 | ng    | 0.00     |
| 13) Acenaphthene-d10          | 13.967 | 164  | 2879     | 0.400 | ng    | 0.00     |
| 19) Phenanthrene-d10          | 16.723 | 188  | 7350     | 0.400 | ng    | #-0.01   |
| 29) Chrysene-d12              | 20.974 | 240  | 7576     | 0.400 | ng    | 0.00     |
| 35) Perylene-d12              | 23.067 | 264  | 8338     | 0.400 | ng    | 0.00     |
| System Monitoring Compounds   |        |      |          |       |       |          |
| 4) 2-Fluorophenol             | 4.968  | 112  | 1280     | 0.332 | ng    | 0.00     |
| 5) Phenol-d6                  | 6.513  | 99   | 1437     | 0.310 | ng    | 0.00     |
| 8) Nitrobenzene-d5            | 8.440  | 82   | 938m     | 0.393 | ng    | 0.00     |
| 11) 2-Methylnaphthalene-d10   | 11.656 | 152  | 2565     | 0.420 | ng    | 0.00     |
| 14) 2,4,6-Tribromophenol      | 15.475 | 330  | 617      | 0.302 | ng    | 0.00     |
| 15) 2-Fluorobiphenyl          | 12.574 | 172  | 4647     | 0.427 | ng    | 0.00     |
| 27) Fluoranthene-d10          | 18.785 | 212  | 8415     | 0.404 | ng    | 0.00     |
| 31) Terphenyl-d14             | 19.412 | 244  | 6272     | 0.420 | ng    | 0.00     |
| Target Compounds              |        |      |          |       |       |          |
|                               |        |      |          |       |       | Qvalue   |
| 2) 1,4-Dioxane                | 3.003  | 88   | 684      | 0.465 | ng    | 99       |
| 3) n-Nitrosodimethylamine     | 3.299  | 42   | 495      | 0.404 | ng    | # 88     |
| 6) bis(2-Chloroethyl)ether    | 6.759  | 93   | 1676     | 0.430 | ng    | 99       |
| 9) Naphthalene                | 10.105 | 128  | 4364     | 0.424 | ng    | 99       |
| 10) Hexachlorobutadiene       | 10.404 | 225  | 1005     | 0.423 | ng    | # 100    |
| 12) 2-Methylnaphthalene       | 11.732 | 142  | 3157     | 0.428 | ng    | 98       |
| 16) Acenaphthylene            | 13.679 | 152  | 5261     | 0.435 | ng    | 100      |
| 17) Acenaphthene              | 14.031 | 154  | 3421     | 0.426 | ng    | 99       |
| 18) Fluorene                  | 15.026 | 166  | 4825     | 0.420 | ng    | 99       |
| 20) 4,6-Dinitro-2-methylph... | 15.132 | 198  | 263      | 0.364 | ng    | # 86     |
| 21) 4-Bromophenyl-phenylether | 15.941 | 248  | 1742     | 0.405 | ng    | 99       |
| 22) Hexachlorobenzene         | 16.040 | 284  | 2151     | 0.426 | ng    | 99       |
| 23) Atrazine                  | 16.227 | 200  | 1227     | 0.401 | ng    | 99       |
| 24) Pentachlorophenol         | 16.400 | 266  | 662      | 0.301 | ng    | # 83     |
| 25) Phenanthrene              | 16.773 | 178  | 8509     | 0.421 | ng    | 100      |
| 26) Anthracene                | 16.860 | 178  | 7849     | 0.430 | ng    | 100      |
| 28) Fluoranthene              | 18.812 | 202  | 10941    | 0.402 | ng    | 100      |
| 30) Pyrene                    | 19.179 | 202  | 11476    | 0.410 | ng    | 100      |
| 32) Benzo(a)anthracene        | 20.956 | 228  | 10934    | 0.413 | ng    | 100      |
| 33) Chrysene                  | 21.009 | 228  | 11926    | 0.436 | ng    | 99       |
| 34) Bis(2-ethylhexyl)phtha... | 20.929 | 149  | 4016     | 0.384 | ng    | 100      |
| 36) Indeno(1,2,3-cd)pyrene    | 25.105 | 276  | 14433    | 0.443 | ng    | 99       |
| 37) Benzo(b)fluoranthene      | 22.453 | 252  | 12988    | 0.426 | ng    | 99       |
| 38) Benzo(k)fluoranthene      | 22.494 | 252  | 12669    | 0.422 | ng    | 99       |
| 39) Benzo(a)pyrene            | 22.974 | 252  | 11094    | 0.442 | ng    | 99       |
| 40) Dibenzo(a,h)anthracene    | 25.123 | 278  | 11141    | 0.433 | ng    | 100      |
| 41) Benzo(g,h,i)perylene      | 25.722 | 276  | 10870    | 0.404 | ng    | 99       |

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

Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN112724\  
 Data File : BN035357.D  
 Acq On : 27 Nov 2024 20:21  
 Operator : RC/JU  
 Sample : SSTDICV0.4  
 Misc :  
 ALS Vial : 10 Sample Multiplier: 1

## Instrument :

BNA\_N

## ClientSampleId :

ICVBN112724

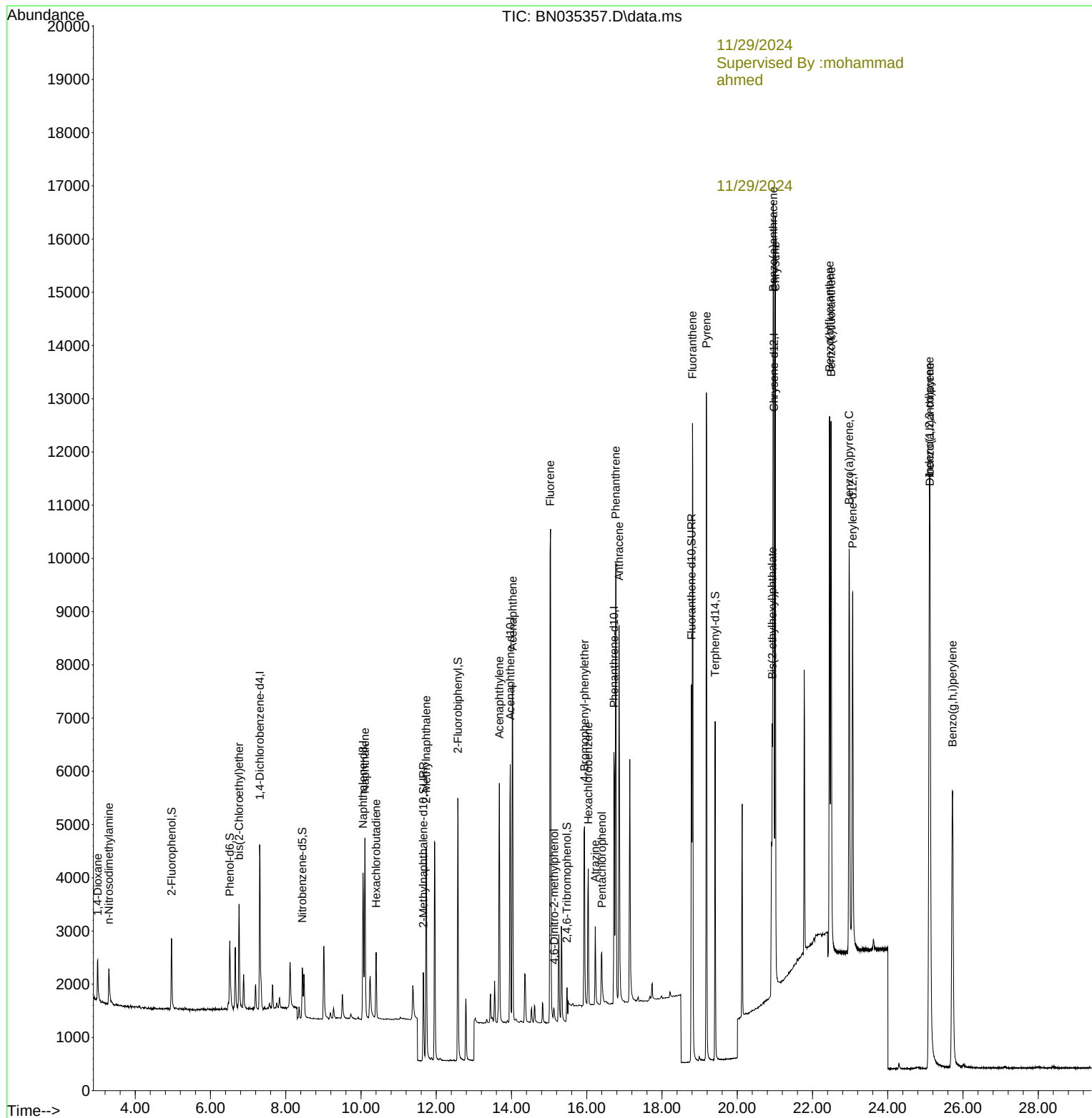
## Manual Integrations

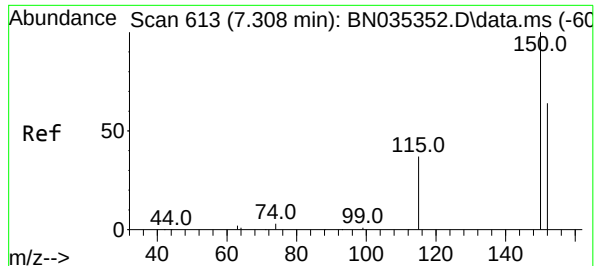
## APPROVED

Reviewed By :Yogesh Patel 11/29/2024

Supervised By :mohammad ahmed 11/29/2024

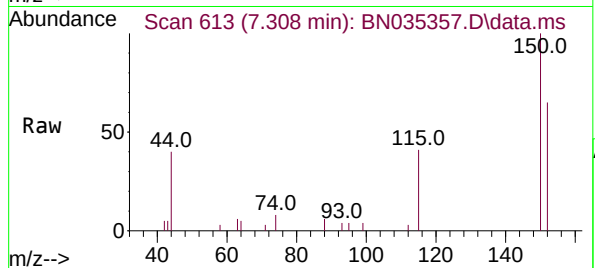
Quant Time: Nov 27 23:06:03 2024  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\8270-SIM-BN112724.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Wed Nov 27 23:03:24 2024  
 Response via : Initial Calibration





#1  
1,4-Dichlorobenzene-d4  
Concen: 0.400 ng  
RT: 7.308 min Scan# 61  
Delta R.T. -0.000 min  
Lab File: BN035357.D  
Acq: 27 Nov 2024 20:21

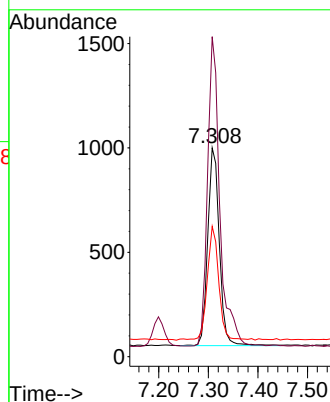
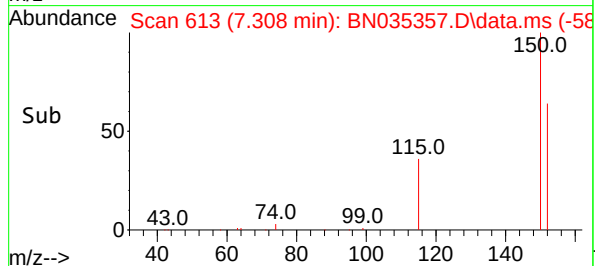
Instrument :  
BNA\_N  
ClientSampleId :  
ICVBN112724



Tgt Ion: 152 Resp: 1540  
Ion Ratio Lower Upper  
152 100  
150 153.3 124.0 186.0  
115 62.4 49.6 74.4

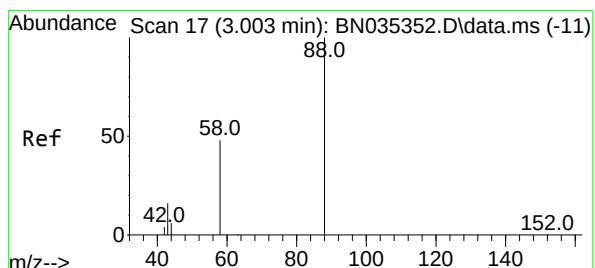
Manual Integrations  
APPROVED

Reviewed By :Yogesh Patel 11/29/2024  
Supervised By :mohammad ahmed 11/29/2024



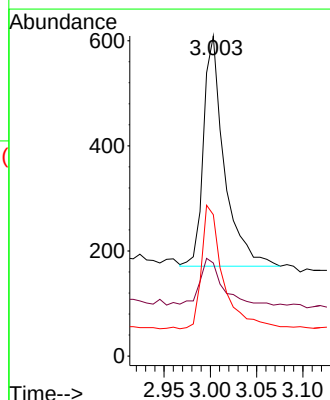
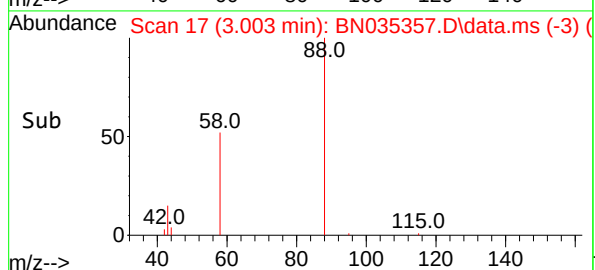
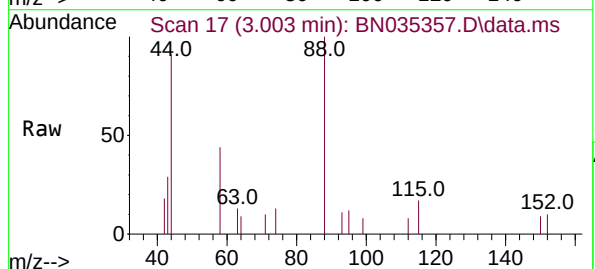
11/29/2024  
Supervised By :mohammad  
ahmed

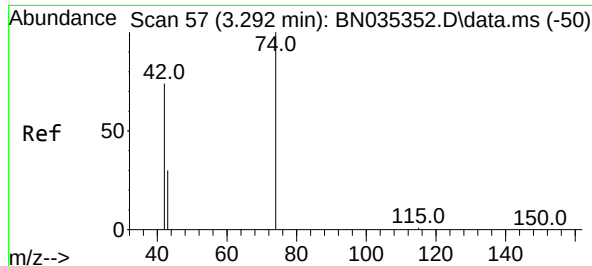
11/29/2024



#2  
1,4-Dioxane  
Concen: 0.465 ng  
RT: 3.003 min Scan# 17  
Delta R.T. -0.000 min  
Lab File: BN035357.D  
Acq: 27 Nov 2024 20:21

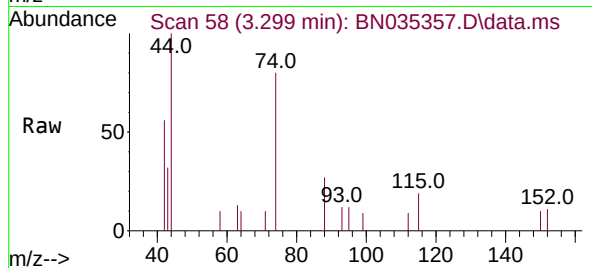
Tgt Ion: 88 Resp: 684  
Ion Ratio Lower Upper  
88 100  
43 21.8 17.2 25.8  
58 56.0 44.5 66.7





#3  
n-Nitrosodimethylamine  
Concen: 0.404 ng  
RT: 3.299 min Scan# 50  
Delta R.T. 0.007 min  
Lab File: BN035357.D  
Acq: 27 Nov 2024 20:21

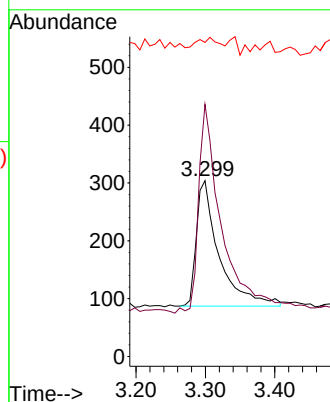
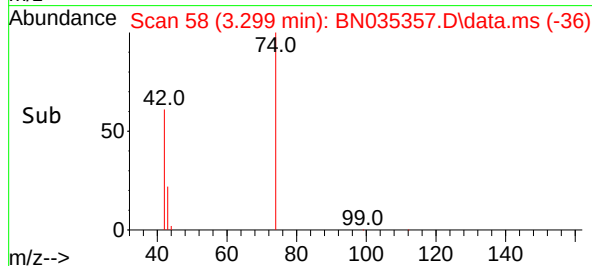
Instrument :  
BNA\_N  
ClientSampleId :  
ICVBN112724



Tgt Ion: 42 Resp: 49  
Ion Ratio Lower Upper  
42 100  
74 172.1 124.9 187.3  
44 6.3 2.2 3.4

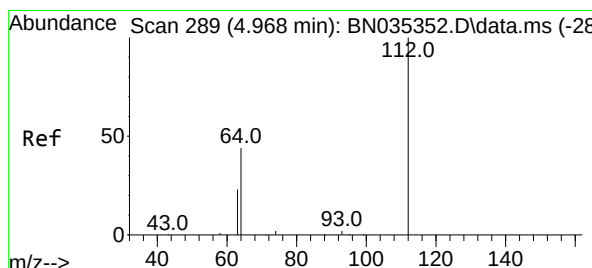
Manual Integrations  
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Reviewed By :Yogesh Patel 11/29/2024  
Supervised By :mohammad ahmed 11/29/2024



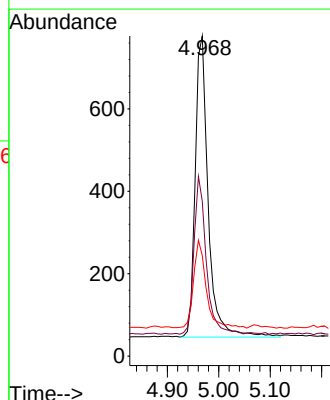
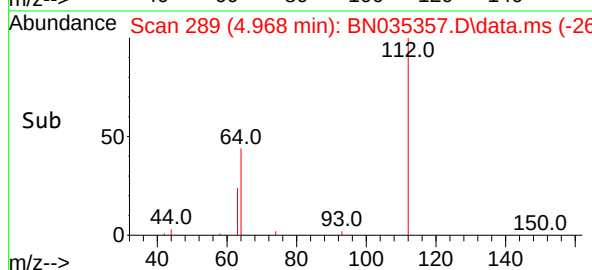
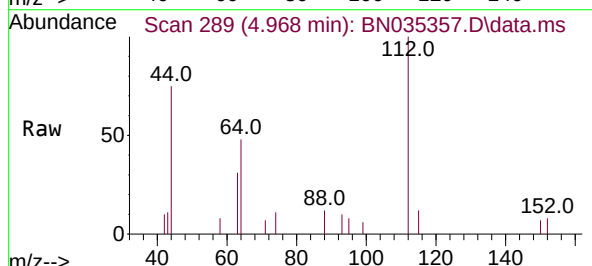
11/29/2024  
Supervised By :mohammad  
ahmed

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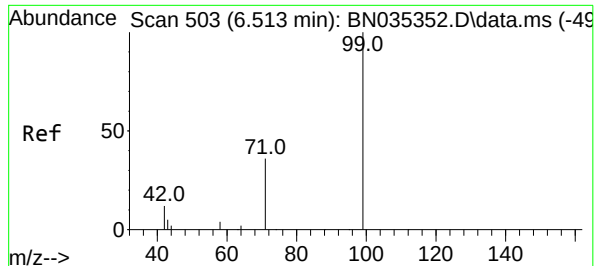


#4  
2-Fluorophenol  
Concen: 0.332 ng  
RT: 4.968 min Scan# 289  
Delta R.T. -0.000 min  
Lab File: BN035357.D  
Acq: 27 Nov 2024 20:21

Tgt Ion:112 Resp: 1280  
Ion Ratio Lower Upper  
112 100  
64 49.0 39.8 59.8  
63 28.4 21.0 31.6







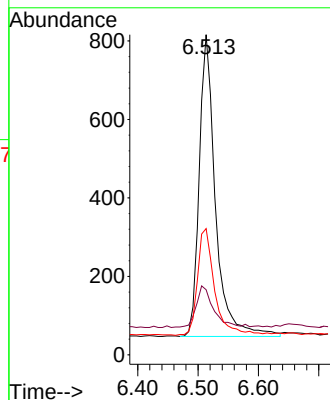
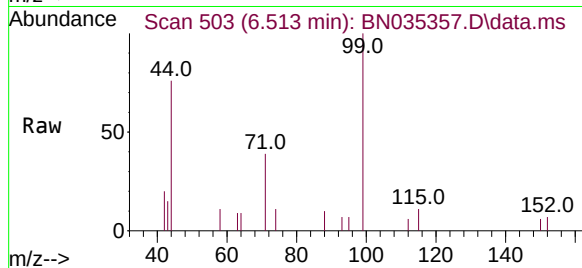
#5  
Phenol-d6  
Concen: 0.310 ng  
RT: 6.513 min Scan# 503  
Delta R.T. -0.000 min  
Lab File: BN035357.D  
Acq: 27 Nov 2024 20:21

Instrument :  
BNA\_N  
ClientSampleId :  
ICVBN112724

Tgt Ion: 99 Resp: 143  
Ion Ratio Lower Upper  
99 100  
42 13.9 11.4 17.2  
71 37.2 29.3 43.9

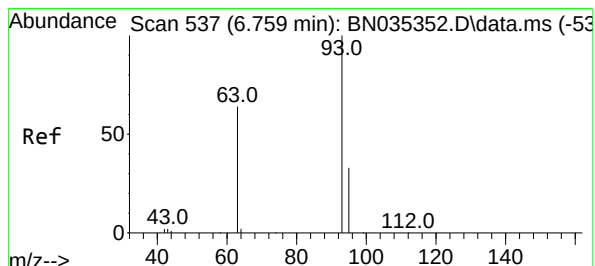
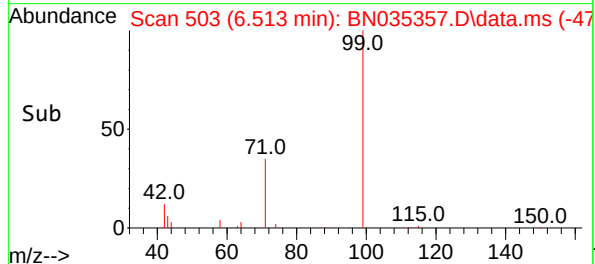
Manual Integrations  
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Reviewed By :Yogesh Patel 11/29/2024  
Supervised By :mohammad ahmed 11/29/2024



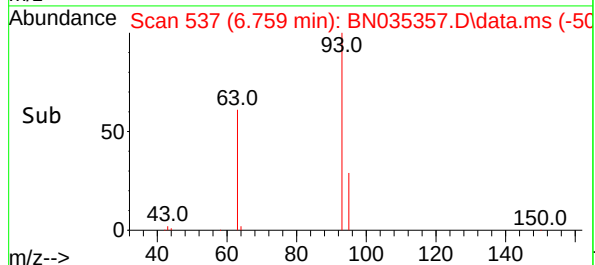
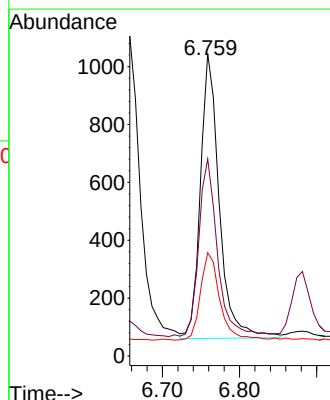
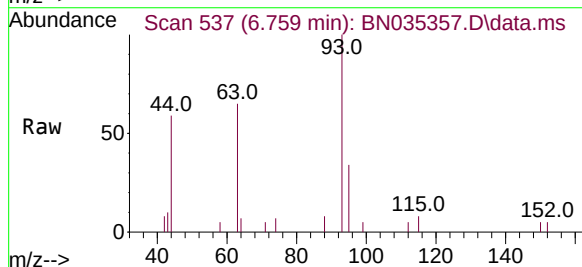
11/29/2024  
Supervised By :mohammad  
ahmed

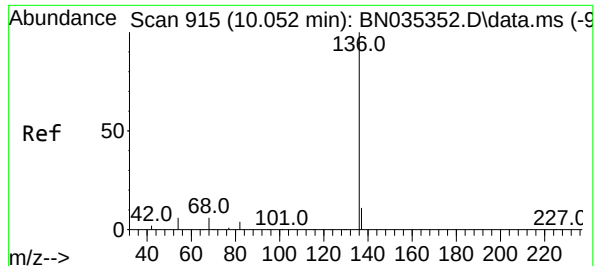
11/29/2024



#6  
bis(2-Chloroethyl)ether  
Concen: 0.430 ng  
RT: 6.759 min Scan# 537  
Delta R.T. -0.000 min  
Lab File: BN035357.D  
Acq: 27 Nov 2024 20:21

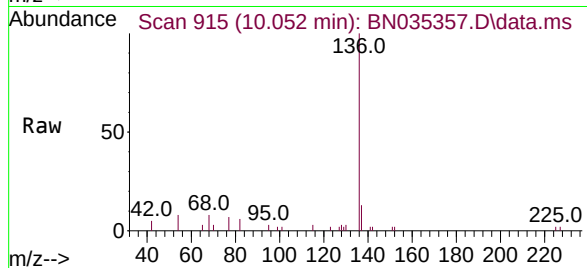
Tgt Ion: 93 Resp: 1676  
Ion Ratio Lower Upper  
93 100  
63 62.1 50.4 75.6  
95 31.4 25.7 38.5





#7  
Naphthalene-d8  
Concen: 0.400 ng  
RT: 10.052 min Scan# 915  
Delta R.T. -0.000 min  
Lab File: BN035357.D  
Acq: 27 Nov 2024 20:21

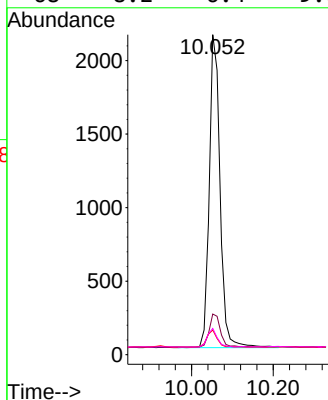
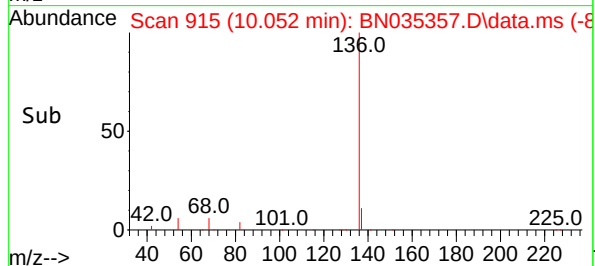
Instrument :  
BNA\_N  
ClientSampleId :  
ICVBN112724



| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 136     | 100   |       |       |
| 137     | 12.7  | 10.2  | 15.2  |
| 54      | 7.7   | 6.1   | 9.1   |
| 68      | 8.2   | 6.4   | 9.6   |

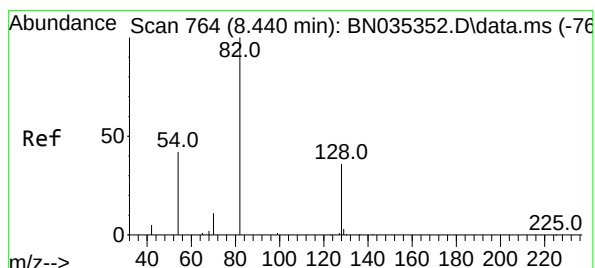
Manual Integrations  
APPROVED

Reviewed By :Yogesh Patel 11/29/2024  
Supervised By :mohammad ahmed 11/29/2024



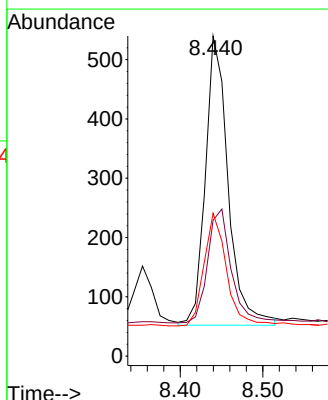
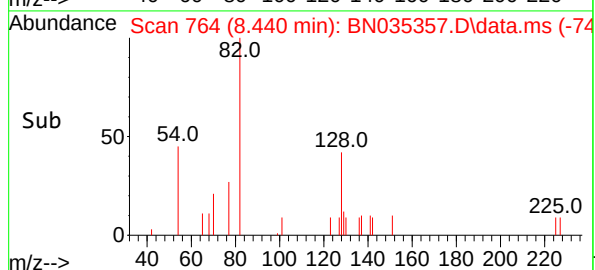
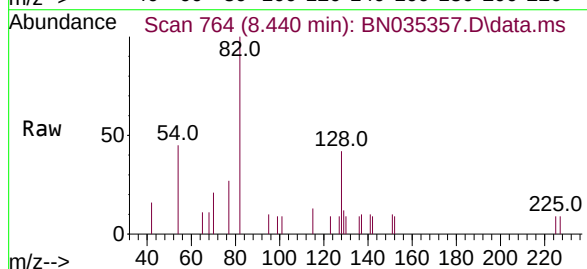
11/29/2024  
Supervised By :mohammad  
ahmed

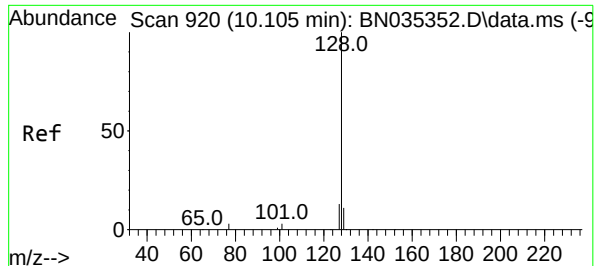
11/29/2024



#8  
Nitrobenzene-d5  
Concen: 0.393 ng m  
RT: 8.440 min Scan# 764  
Delta R.T. -0.000 min  
Lab File: BN035357.D  
Acq: 27 Nov 2024 20:21

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 82      | 100   |       |       |
| 128     | 42.4  | 33.4  | 50.0  |
| 54      | 44.6  | 36.7  | 55.1  |





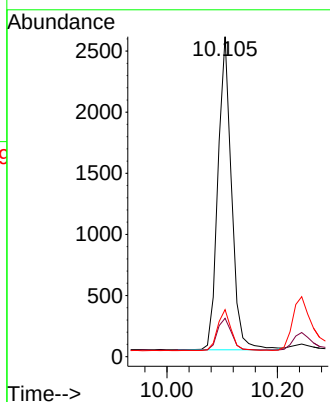
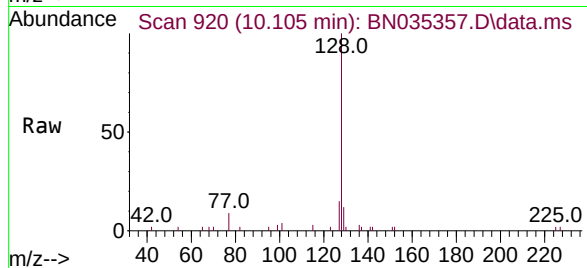
#9  
Naphthalene  
Concen: 0.424 ng  
RT: 10.105 min Scan# 912  
Delta R.T. -0.000 min  
Lab File: BN035357.D  
Acq: 27 Nov 2024 20:21

Instrument :  
BNA\_N  
ClientSampleId :  
ICVBN112724

Tgt Ion:128 Resp: 4364  
Ion Ratio Lower Upper  
128 100  
129 12.0 9.8 14.6  
127 14.7 11.4 17.2

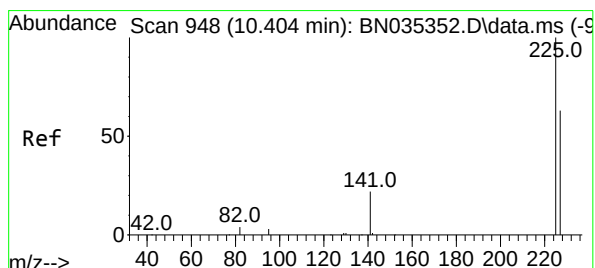
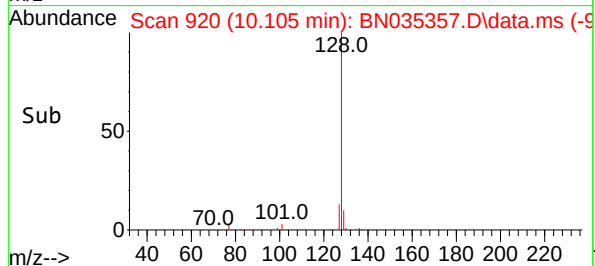
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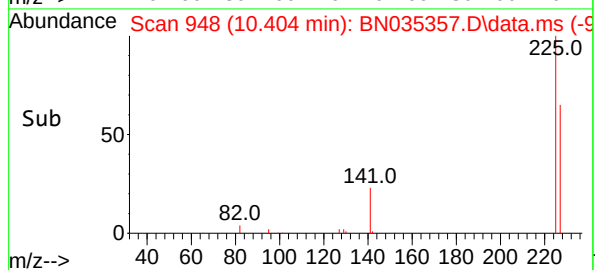
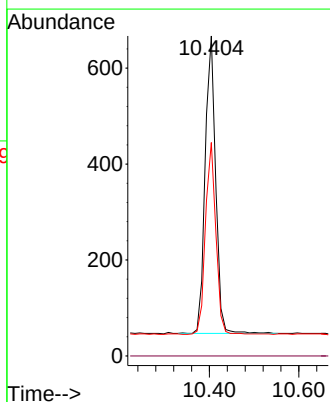
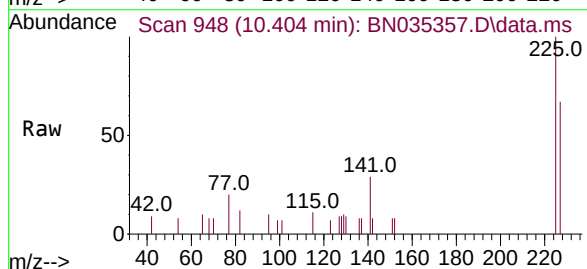
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Supervised By :mohammad  
ahmed

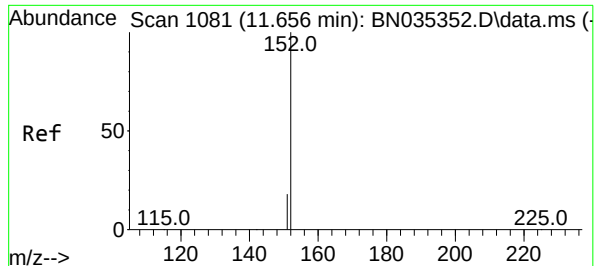
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#10  
Hexachlorobutadiene  
Concen: 0.423 ng  
RT: 10.404 min Scan# 948  
Delta R.T. -0.000 min  
Lab File: BN035357.D  
Acq: 27 Nov 2024 20:21

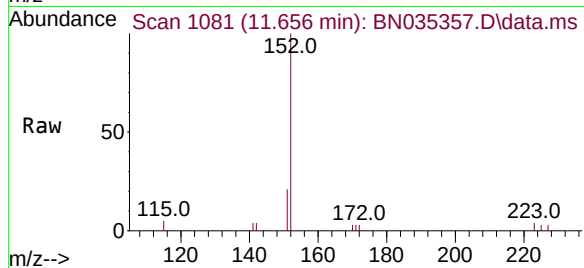
Tgt Ion:225 Resp: 1005  
Ion Ratio Lower Upper  
225 100  
223 0.0 0.0 0.0  
227 64.3 51.3 76.9





#11  
2-Methylnaphthalene-d10  
Concen: 0.420 ng  
RT: 11.656 min Scan# 1081  
Delta R.T. -0.000 min  
Lab File: BN035357.D  
Acq: 27 Nov 2024 20:21

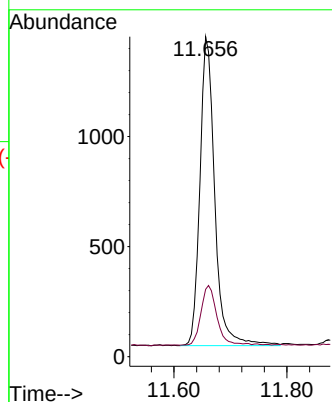
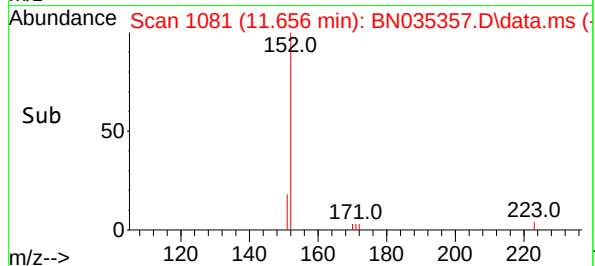
Instrument :  
BNA\_N  
ClientSampleId :  
ICVBN112724



Tgt Ion:152 Resp: 256  
Ion Ratio Lower Upper  
152 100  
151 20.5 16.6 25.0

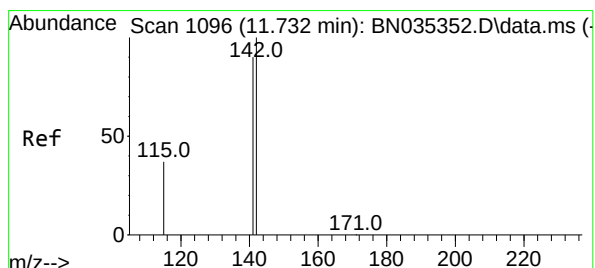
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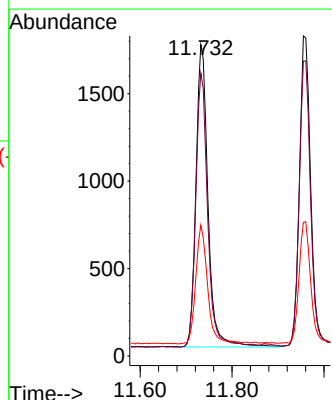
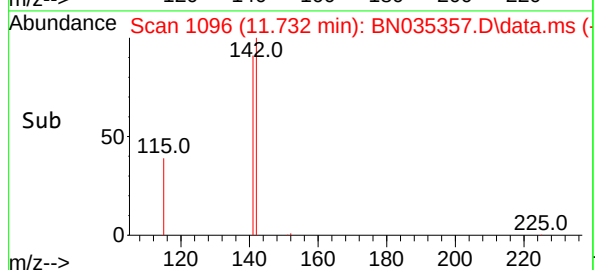
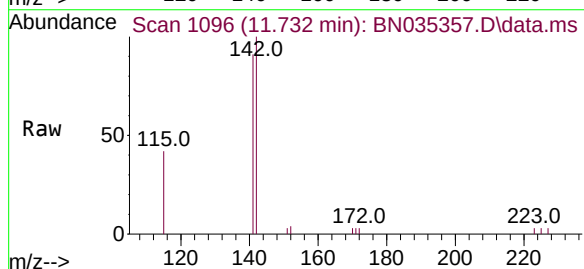
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ahmed

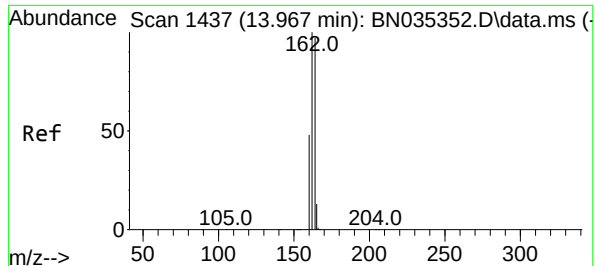
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#12  
2-Methylnaphthalene  
Concen: 0.428 ng  
RT: 11.732 min Scan# 1096  
Delta R.T. -0.000 min  
Lab File: BN035357.D  
Acq: 27 Nov 2024 20:21

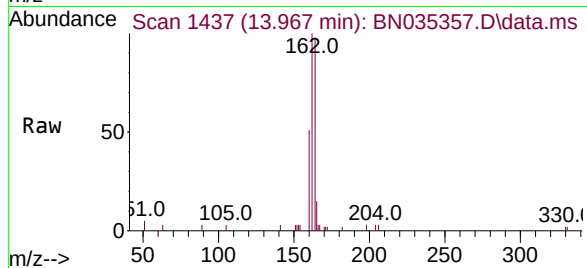
Tgt Ion:142 Resp: 3157  
Ion Ratio Lower Upper  
142 100  
141 90.9 72.2 108.4  
115 42.0 31.4 47.0





#13  
Acenaphthene-d10  
Concen: 0.400 ng  
RT: 13.967 min Scan# 1437  
Delta R.T. -0.000 min  
Lab File: BN035357.D  
Acq: 27 Nov 2024 20:21

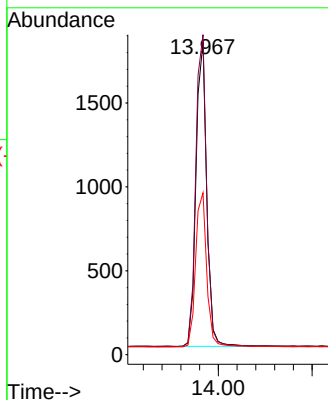
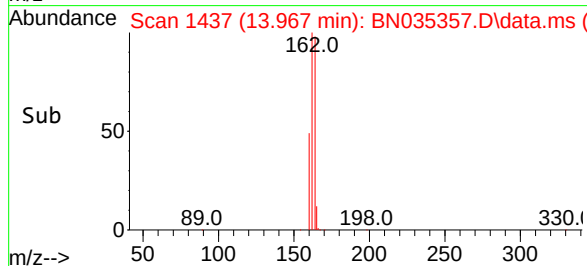
Instrument :  
BNA\_N  
ClientSampleId :  
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Tgt Ion:164 Resp: 2879  
Ion Ratio Lower Upper  
164 100  
162 102.3 82.2 123.2  
160 51.8 40.1 60.1

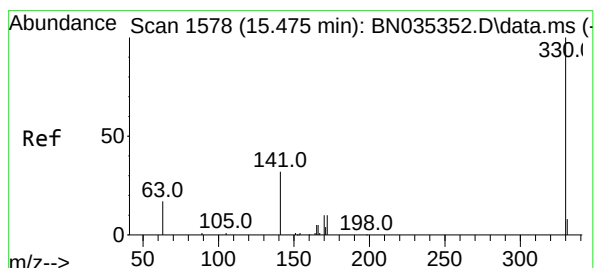
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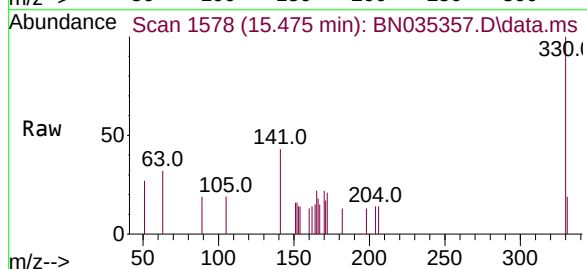


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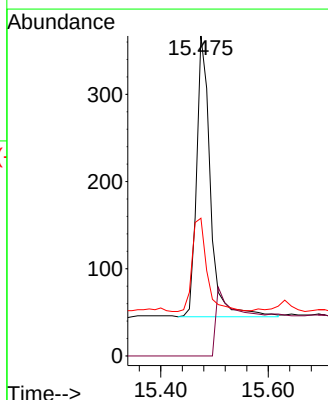
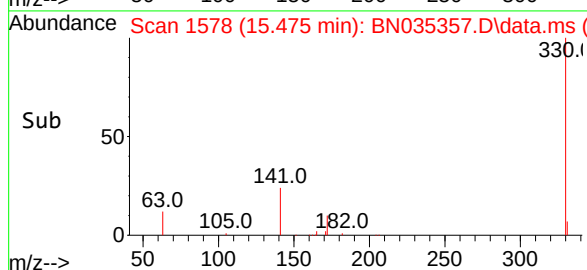
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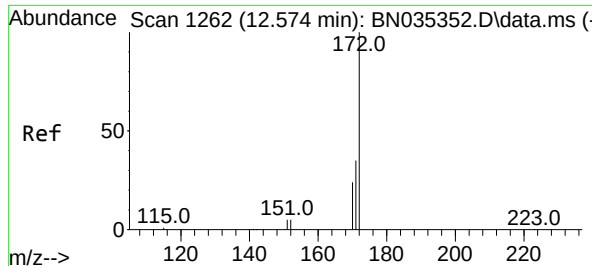


#14  
2,4,6-Tribromophenol  
Concen: 0.302 ng  
RT: 15.475 min Scan# 1578  
Delta R.T. -0.000 min  
Lab File: BN035357.D  
Acq: 27 Nov 2024 20:21



Tgt Ion:330 Resp: 617  
Ion Ratio Lower Upper  
330 100  
332 0.0 0.0 0.0  
141 34.7 26.6 40.0





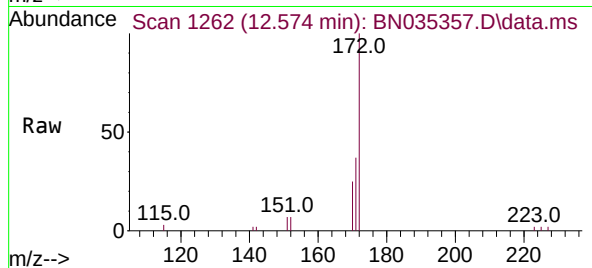
#15  
2-Fluorobiphenyl  
Concen: 0.427 ng  
RT: 12.574 min Scan# 11  
Delta R.T. -0.000 min  
Lab File: BN035357.D  
Acq: 27 Nov 2024 20:21

Instrument :

BNA\_N

ClientSampleId :

ICVBN112724



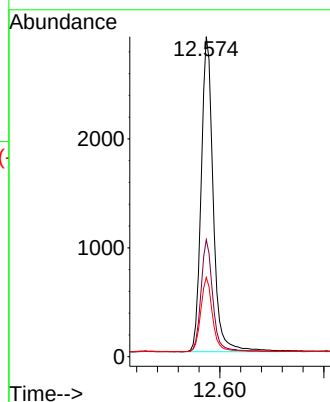
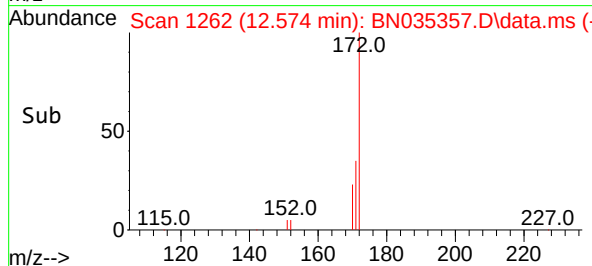
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 172     | 100   |       |       |
| 171     | 36.5  | 29.0  | 43.4  |
| 170     | 24.7  | 19.8  | 29.8  |

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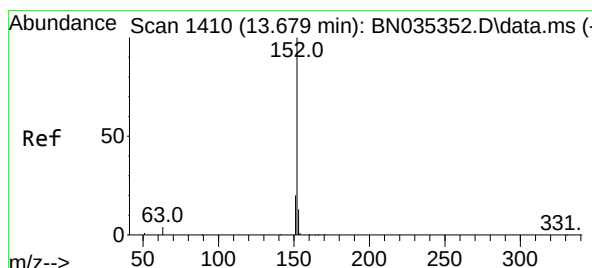
Reviewed By :Yogesh Patel 11/29/2024

Supervised By :mohammad ahmed 11/29/2024

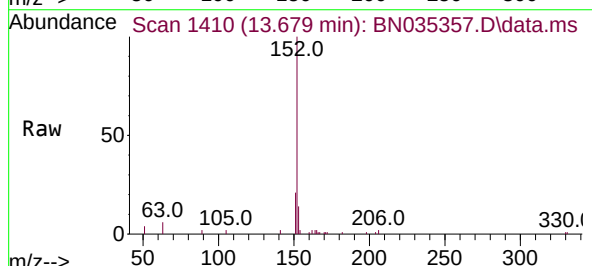


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Supervised By :mohammad  
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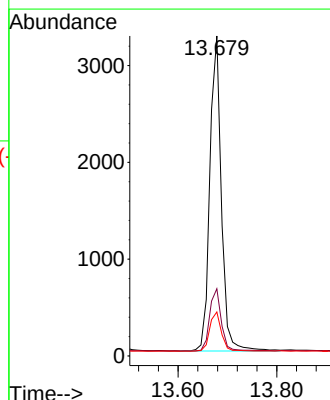
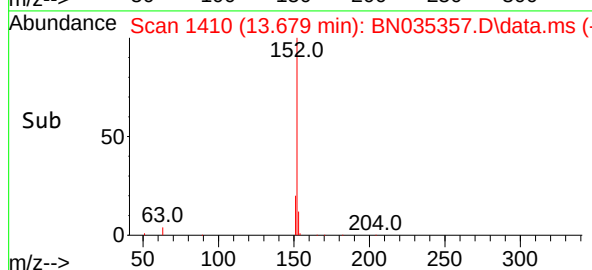
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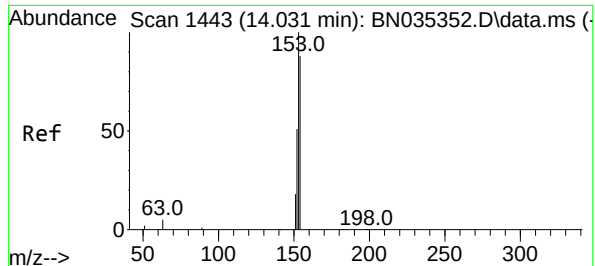


#16  
Acenaphthylene  
Concen: 0.435 ng  
RT: 13.679 min Scan# 1410  
Delta R.T. -0.000 min  
Lab File: BN035357.D  
Acq: 27 Nov 2024 20:21



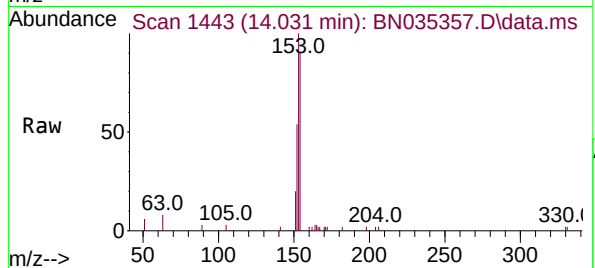
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 151     | 20.1  | 16.2  | 24.2  |
| 153     | 12.7  | 10.4  | 15.6  |





#17  
Acenaphthene  
Concen: 0.426 ng  
RT: 14.031 min Scan# 1443  
Delta R.T. -0.000 min  
Lab File: BN035357.D  
Acq: 27 Nov 2024 20:21

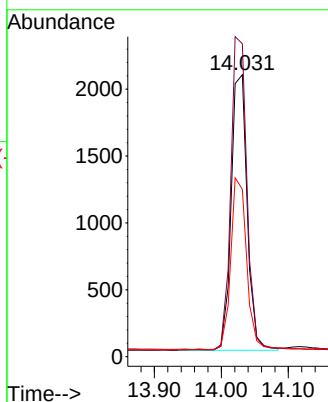
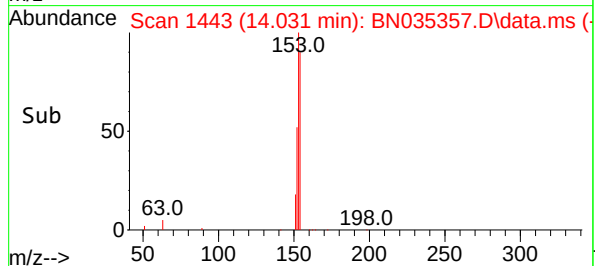
Instrument :  
BNA\_N  
ClientSampleId :  
ICVBN112724



Tgt Ion:154 Resp: 342  
Ion Ratio Lower Upper  
154 100  
153 115.4 92.6 139.0  
152 61.9 49.0 73.6

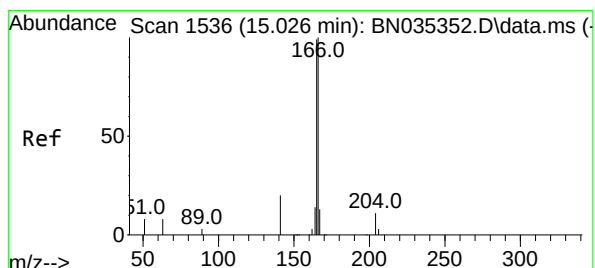
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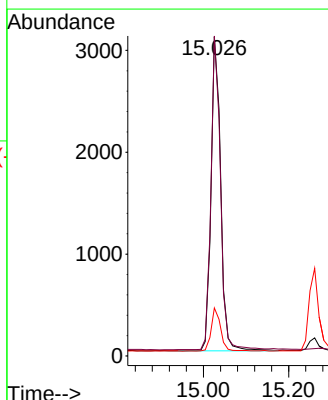
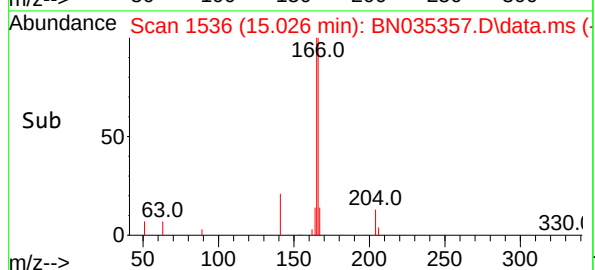
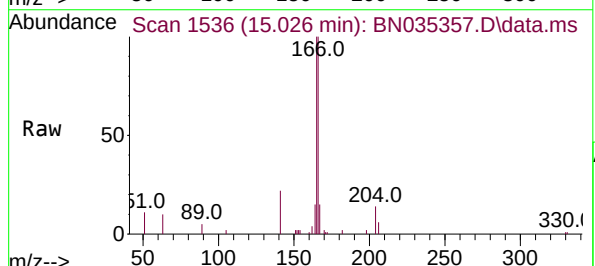
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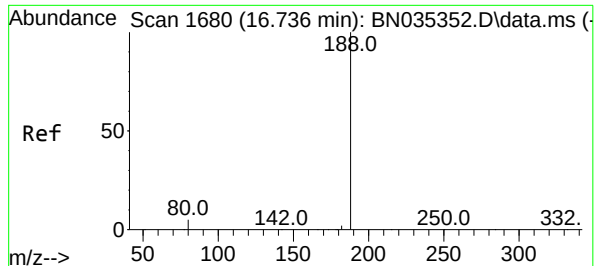
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#18  
Fluorene  
Concen: 0.420 ng  
RT: 15.026 min Scan# 1536  
Delta R.T. -0.000 min  
Lab File: BN035357.D  
Acq: 27 Nov 2024 20:21

Tgt Ion:166 Resp: 4825  
Ion Ratio Lower Upper  
166 100  
165 98.4 79.7 119.5  
167 13.6 10.8 16.2





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 16.723 min Scan# 1

Delta R.T. -0.012 min

Lab File: BN035357.D

Acq: 27 Nov 2024 20:21

Instrument :

BNA\_N

ClientSampleId :

ICVBN112724

Tgt Ion:188 Resp: 7350

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

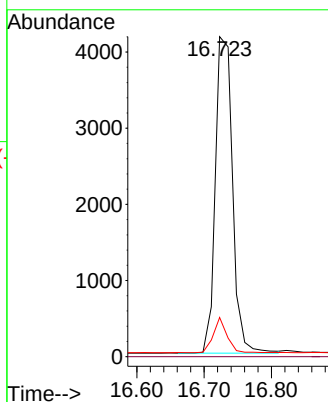
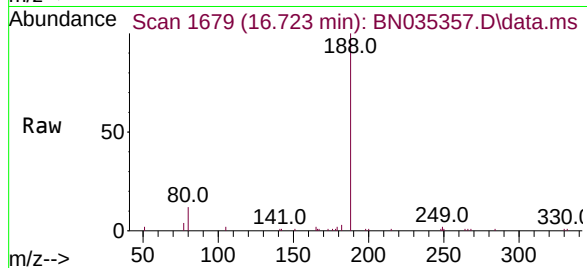
80 12.2 4.6 6.8

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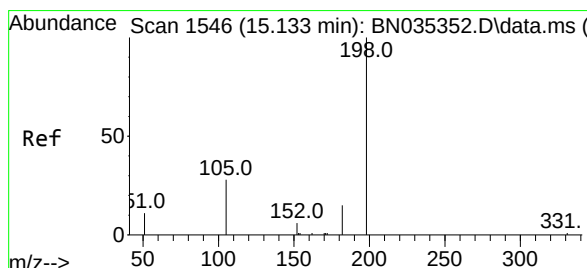
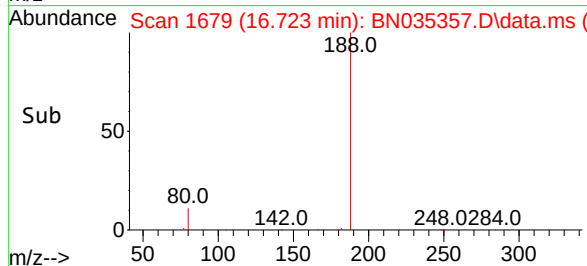
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#20

4,6-Dinitro-2-methylphenol

Concen: 0.364 ng

RT: 15.132 min Scan# 1546

Delta R.T. -0.001 min

Lab File: BN035357.D

Acq: 27 Nov 2024 20:21

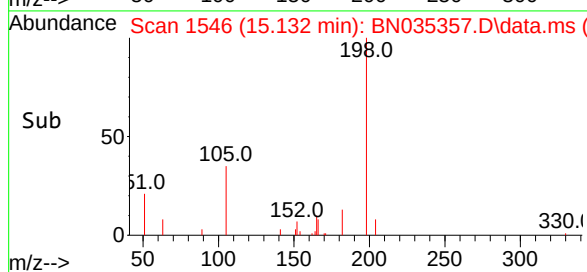
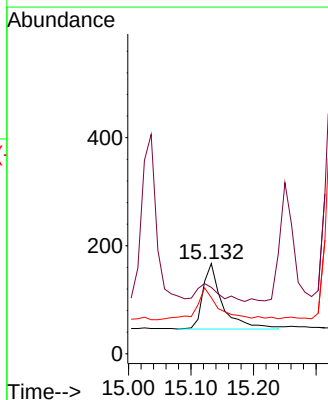
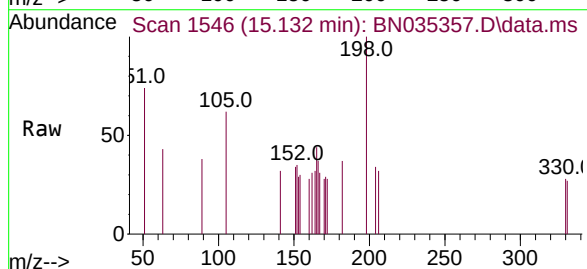
Tgt Ion:198 Resp: 263

Ion Ratio Lower Upper

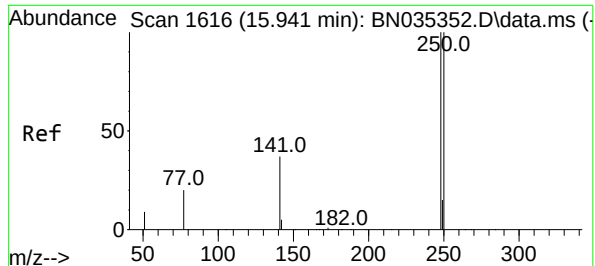
198 100

51 73.7 46.5 69.7

105 62.3 45.3 67.9







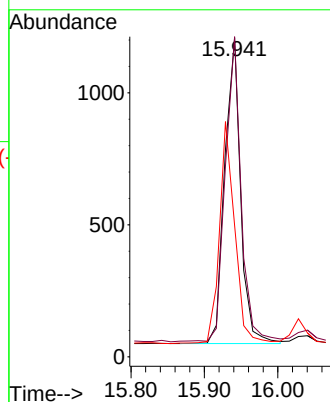
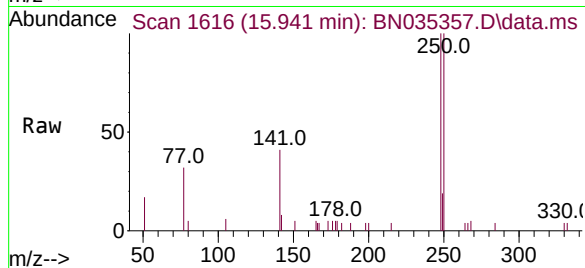
#21  
4-Bromophenyl-phenylether  
Concen: 0.405 ng  
RT: 15.941 min Scan# 1616  
Delta R.T. -0.000 min  
Lab File: BN035357.D  
Acq: 27 Nov 2024 20:21

Instrument :  
BNA\_N  
ClientSampleId :  
ICVBN112724

Tgt Ion:248 Resp: 174  
Ion Ratio Lower Upper  
248 100  
250 100.3 80.6 120.8  
141 41.2 31.5 47.3

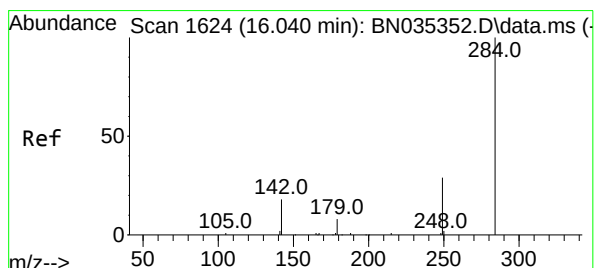
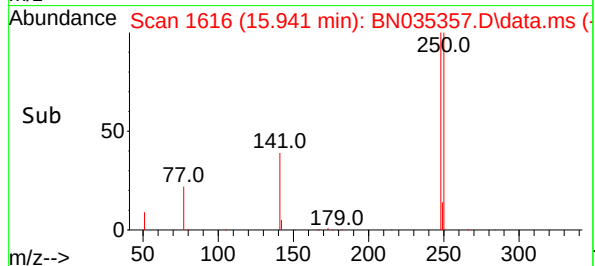
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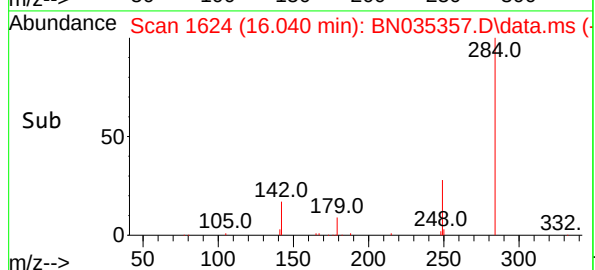
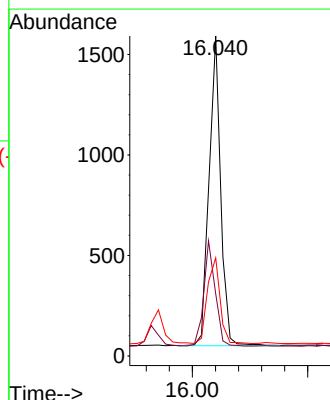
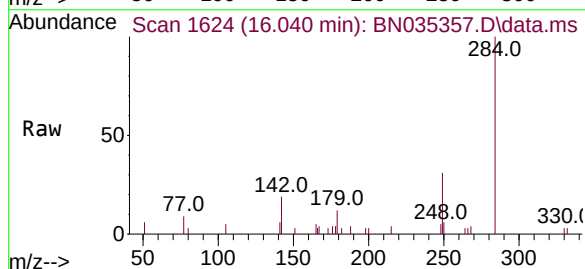
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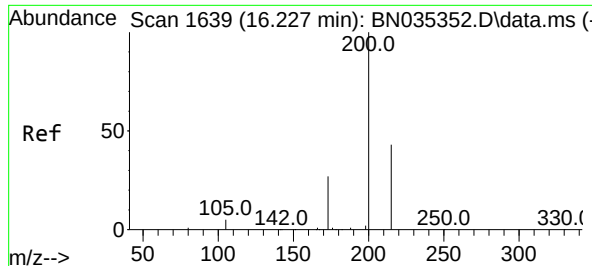
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#22  
Hexachlorobenzene  
Concen: 0.426 ng  
RT: 16.040 min Scan# 1624  
Delta R.T. -0.000 min  
Lab File: BN035357.D  
Acq: 27 Nov 2024 20:21

Tgt Ion:284 Resp: 2151  
Ion Ratio Lower Upper  
284 100  
142 33.5 26.7 40.1  
249 30.0 24.6 36.8





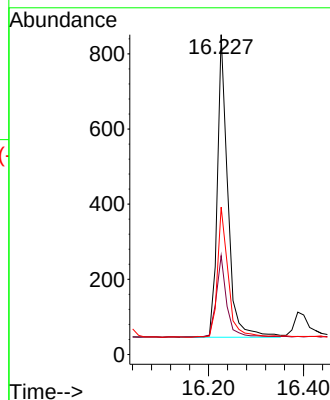
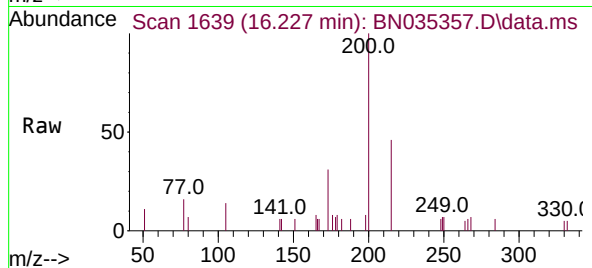
#23  
Atrazine  
Concen: 0.401 ng  
RT: 16.227 min Scan# 1639  
Delta R.T. -0.000 min  
Lab File: BN035357.D  
Acq: 27 Nov 2024 20:21

Instrument :  
BNA\_N  
ClientSampleId :  
ICVBN112724

Tgt Ion:200 Resp: 122  
Ion Ratio Lower Upper  
200 100  
173 30.9 24.1 36.1  
215 46.1 36.9 55.3

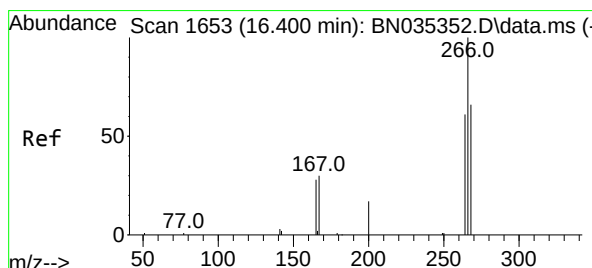
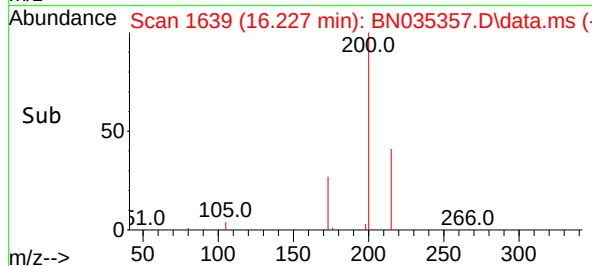
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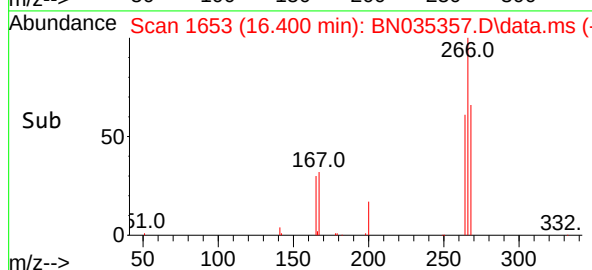
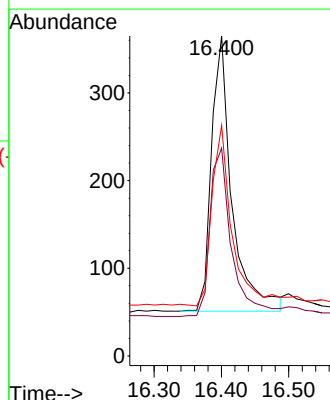
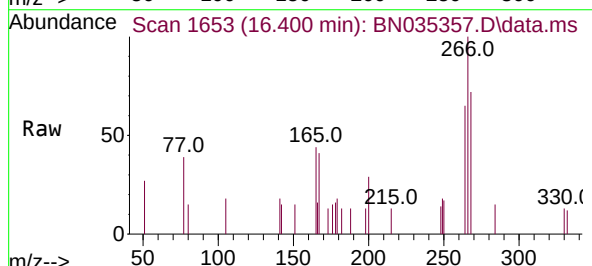
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ahmed

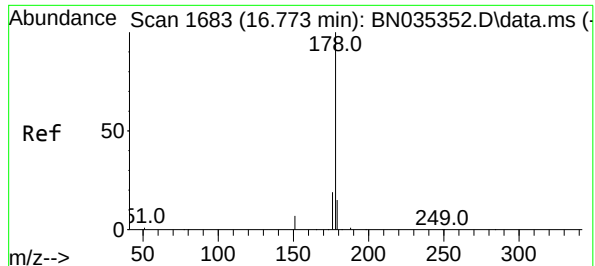
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#24  
Pentachlorophenol  
Concen: 0.301 ng  
RT: 16.400 min Scan# 1653  
Delta R.T. -0.000 min  
Lab File: BN035357.D  
Acq: 27 Nov 2024 20:21

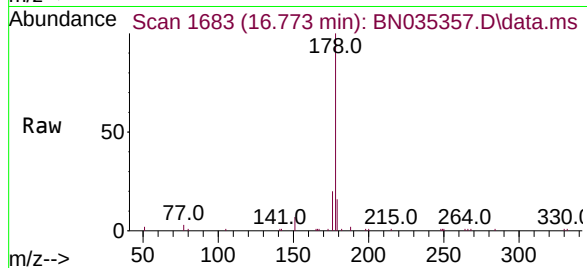
Tgt Ion:266 Resp: 662  
Ion Ratio Lower Upper  
266 100  
264 65.0 42.3 63.5#  
268 66.8 43.3 64.9#





#25  
Phenanthrene  
Concen: 0.421 ng  
RT: 16.773 min Scan# 1683  
Delta R.T. -0.000 min  
Lab File: BN035357.D  
Acq: 27 Nov 2024 20:21

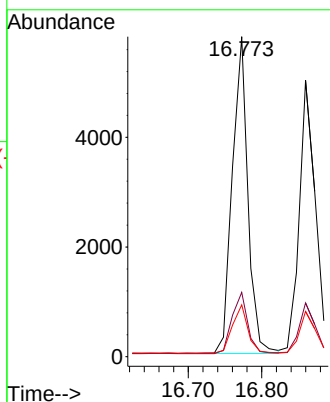
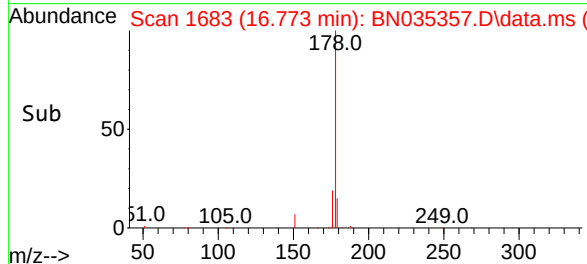
Instrument :  
BNA\_N  
ClientSampleId :  
ICVBN112724



Tgt Ion:178 Resp: 8509  
Ion Ratio Lower Upper  
178 100  
176 19.6 15.4 23.2  
179 15.4 12.3 18.5

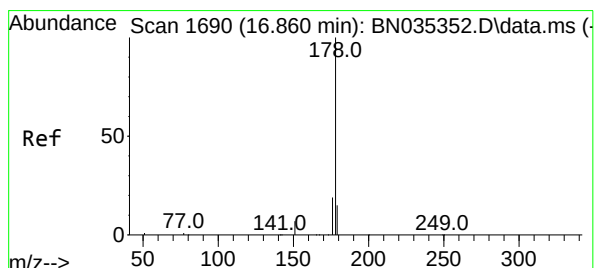
Manual Integrations  
APPROVED

Reviewed By :Yogesh Patel 11/29/2024  
Supervised By :mohammad ahmed 11/29/2024



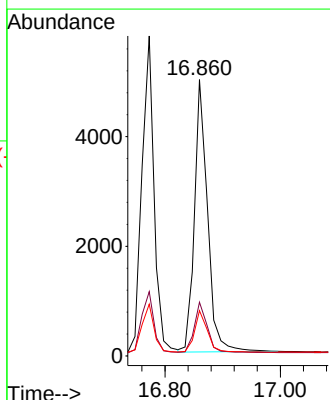
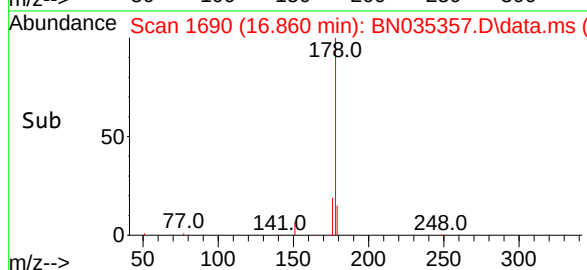
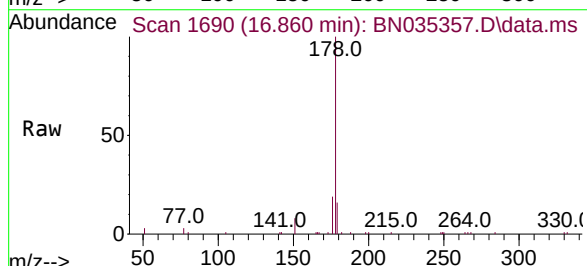
11/29/2024  
Supervised By :mohammad  
ahmed

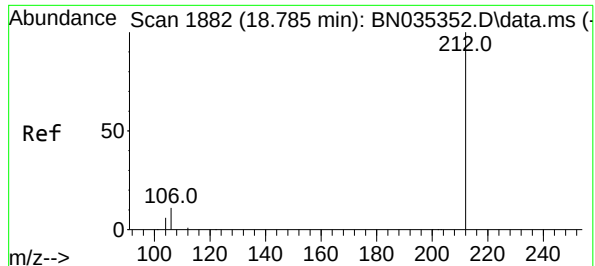
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#26  
Anthracene  
Concen: 0.430 ng  
RT: 16.860 min Scan# 1690  
Delta R.T. -0.000 min  
Lab File: BN035357.D  
Acq: 27 Nov 2024 20:21

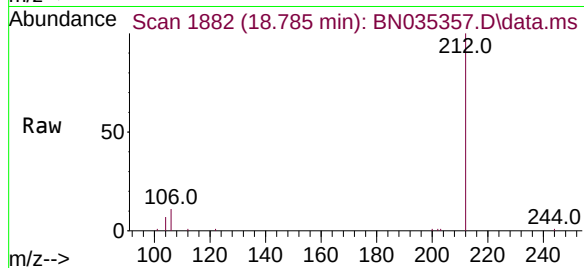
Tgt Ion:178 Resp: 7849  
Ion Ratio Lower Upper  
178 100  
176 18.8 15.0 22.6  
179 15.3 12.6 18.8





#27  
Fluoranthene-d10  
Concen: 0.404 ng  
RT: 18.785 min Scan# 1882  
Delta R.T. -0.000 min  
Lab File: BN035357.D  
Acq: 27 Nov 2024 20:21

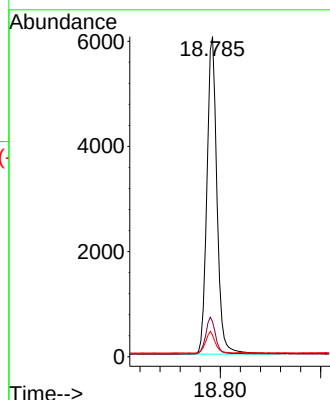
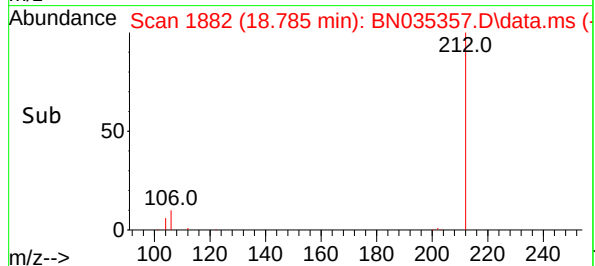
Instrument :  
BNA\_N  
ClientSampleId :  
ICVBN112724



Tgt Ion:212 Resp: 841  
Ion Ratio Lower Upper  
212 100  
106 11.3 9.2 13.8  
104 6.4 5.3 7.9

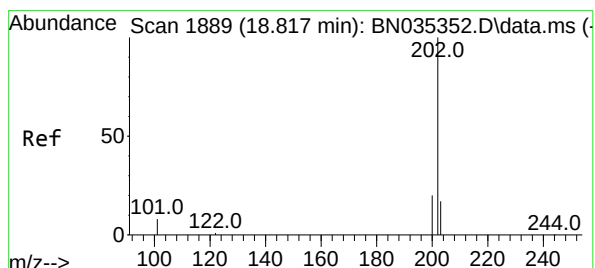
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Supervised By :mohammad ahmed 11/29/2024

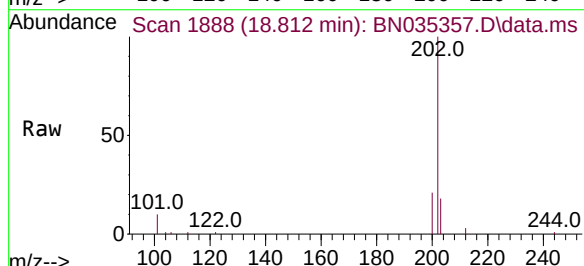


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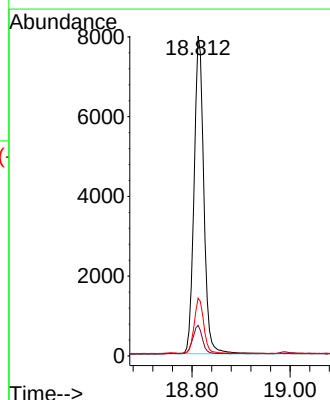
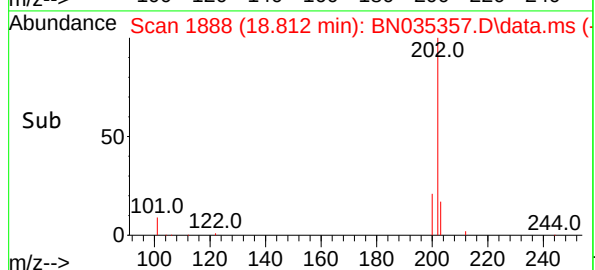
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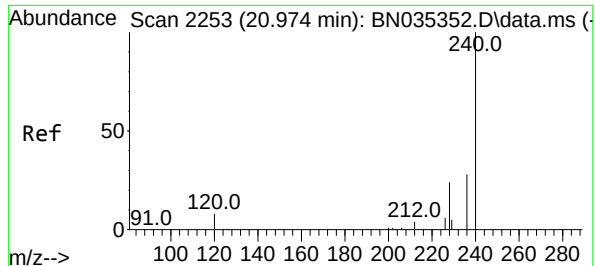


#28  
Fluoranthene  
Concen: 0.402 ng  
RT: 18.812 min Scan# 1888  
Delta R.T. -0.005 min  
Lab File: BN035357.D  
Acq: 27 Nov 2024 20:21



Tgt Ion:202 Resp: 10941  
Ion Ratio Lower Upper  
202 100  
101 9.2 7.4 11.0  
203 17.1 13.7 20.5





#29

Chrysene-d12

Concen: 0.400 ng

RT: 20.974 min Scan# 21

Delta R.T. -0.000 min

Lab File: BN035357.D

Acq: 27 Nov 2024 20:21

Instrument :

BNA\_N

ClientSampleId :

ICVBN112724

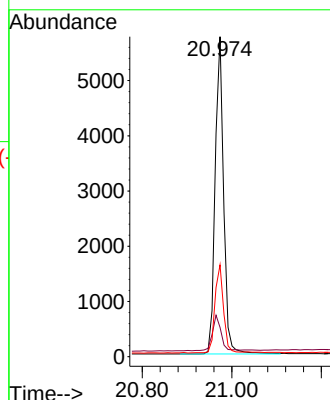
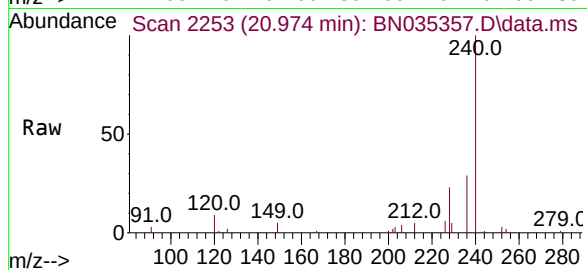
|             |       |           |
|-------------|-------|-----------|
| Tgt Ion:240 | Resp: | 7570      |
| Ion Ratio   | Lower | Upper     |
| 240         | 100   |           |
| 120         | 9.1   | 7.9 11.9  |
| 236         | 28.7  | 22.9 34.3 |

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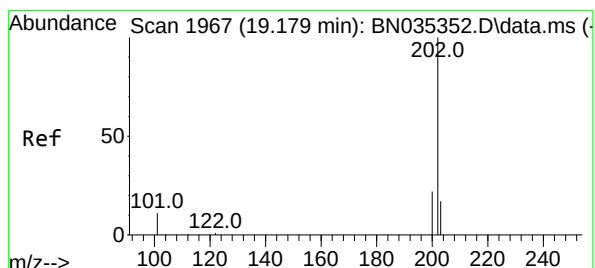
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#30

Pyrene

Concen: 0.410 ng

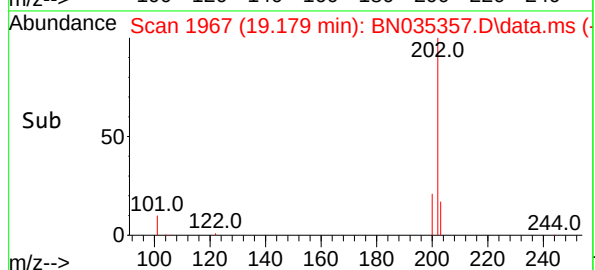
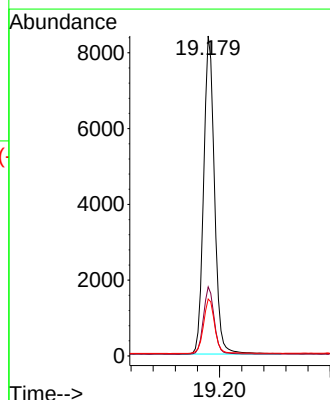
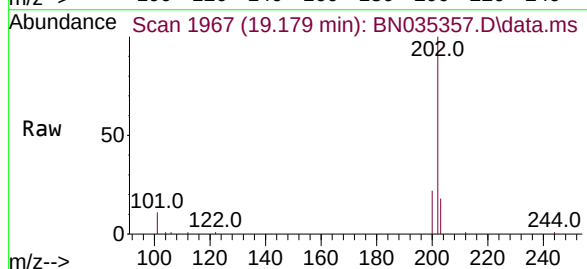
RT: 19.179 min Scan# 1967

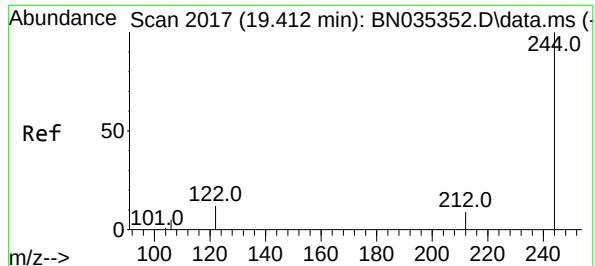
Delta R.T. -0.000 min

Lab File: BN035357.D

Acq: 27 Nov 2024 20:21

|             |       |           |
|-------------|-------|-----------|
| Tgt Ion:202 | Resp: | 11476     |
| Ion Ratio   | Lower | Upper     |
| 202         | 100   |           |
| 200         | 20.9  | 17.0 25.4 |
| 203         | 17.8  | 14.3 21.5 |





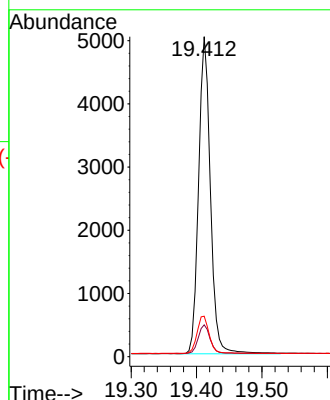
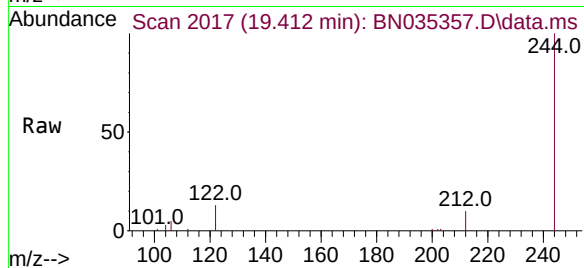
#31  
Terphenyl-d14  
Concen: 0.420 ng  
RT: 19.412 min Scan# 2017  
Delta R.T. -0.000 min  
Lab File: BN035357.D  
Acq: 27 Nov 2024 20:21

Instrument :  
BNA\_N  
ClientSampleId :  
ICVBN112724

Tgt Ion:244 Resp: 6272  
Ion Ratio Lower Upper  
244 100  
212 9.9 8.1 12.1  
122 12.6 10.3 15.5

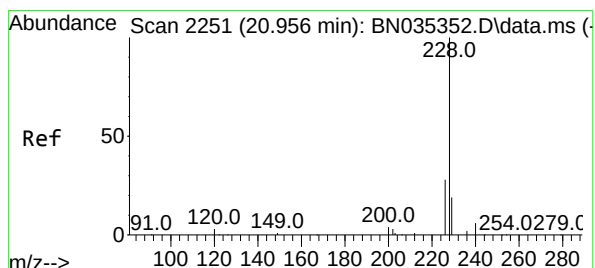
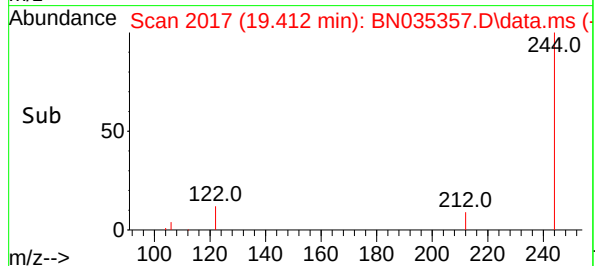
Manual Integrations  
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Supervised By :mohammad ahmed 11/29/2024



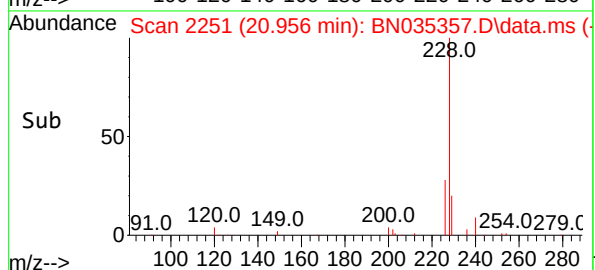
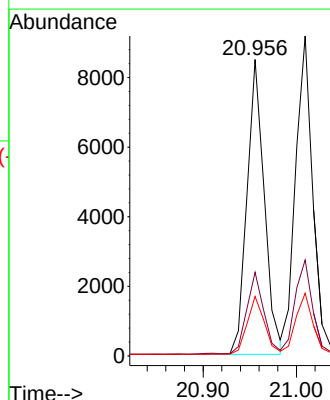
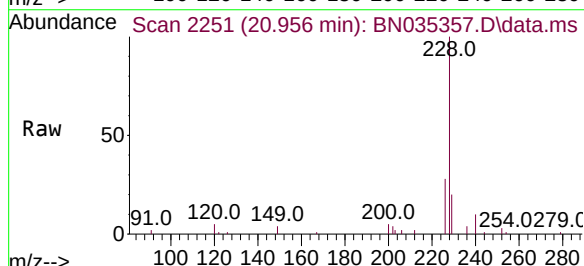
11/29/2024  
Supervised By :mohammad  
ahmed

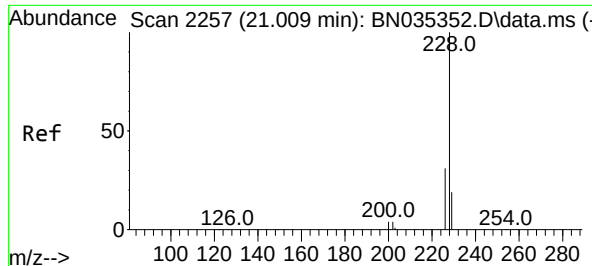
11/29/2024



#32  
Benzo(a)anthracene  
Concen: 0.413 ng  
RT: 20.956 min Scan# 2251  
Delta R.T. -0.000 min  
Lab File: BN035357.D  
Acq: 27 Nov 2024 20:21

Tgt Ion:228 Resp: 10934  
Ion Ratio Lower Upper  
228 100  
226 28.2 22.5 33.7  
229 20.1 15.8 23.8





#33

Chrysene

Concen: 0.436 ng

RT: 21.009 min Scan# 21

Delta R.T. -0.000 min

Lab File: BN035357.D

Acq: 27 Nov 2024 20:21

Instrument :

BNA\_N

ClientSampleId :

ICVBN112724

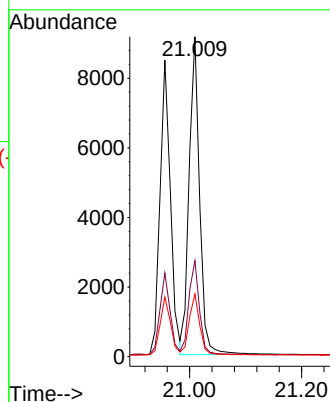
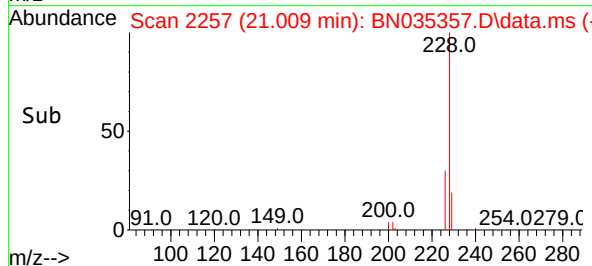
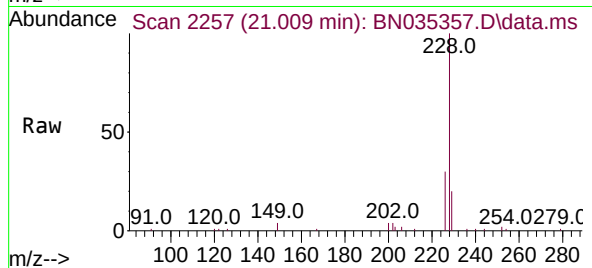
|             |             |
|-------------|-------------|
| Tgt Ion:228 | Resp: 11920 |
| Ion Ratio   | Lower Upper |
| 228 100     |             |
| 226 30.0    | 24.6 37.0   |
| 229 19.6    | 15.9 23.9   |

## Manual Integrations

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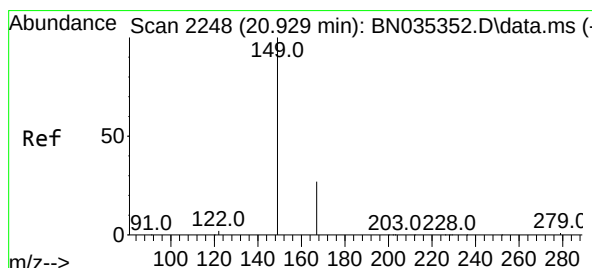
Supervised By :mohammad ahmed 11/29/2024



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#34

Bis(2-ethylhexyl)phthalate

Concen: 0.384 ng

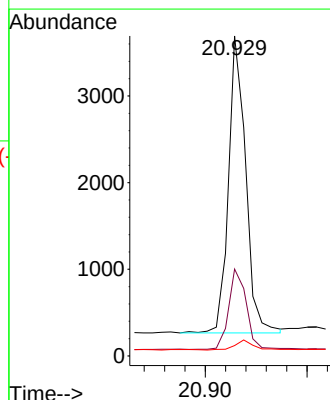
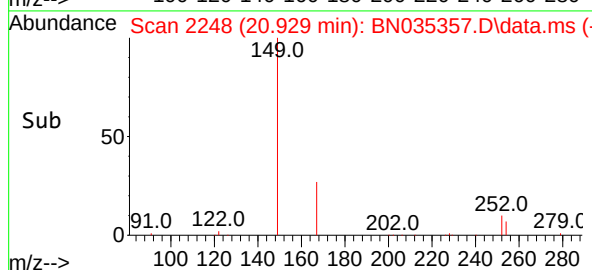
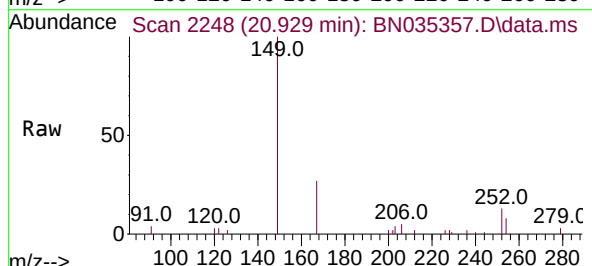
RT: 20.929 min Scan# 2248

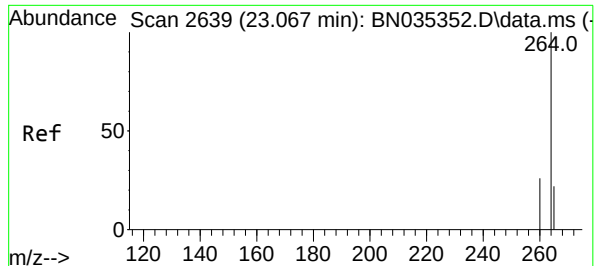
Delta R.T. -0.000 min

Lab File: BN035357.D

Acq: 27 Nov 2024 20:21

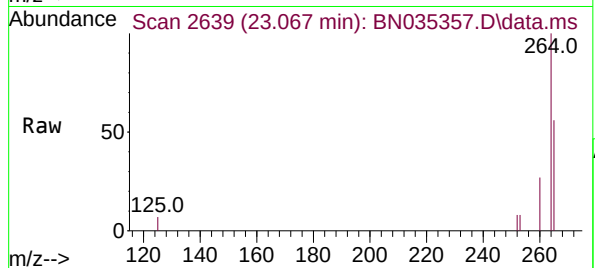
|             |             |
|-------------|-------------|
| Tgt Ion:149 | Resp: 4016  |
| Ion Ratio   | Lower Upper |
| 149 100     |             |
| 167 27.7    | 22.2 33.4   |
| 279 3.7     | 2.7 4.1     |





#35  
Perylene-d12  
Concen: 0.400 ng  
RT: 23.067 min Scan# 2639  
Delta R.T. -0.000 min  
Lab File: BN035357.D  
Acq: 27 Nov 2024 20:21

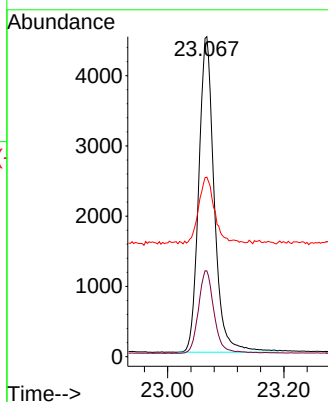
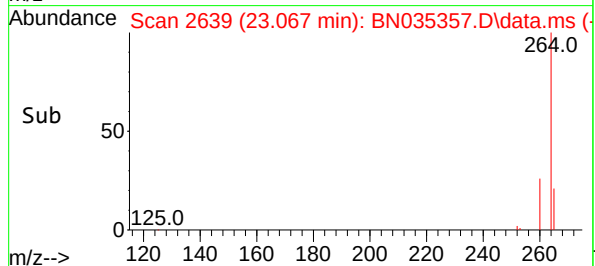
Instrument :  
BNA\_N  
ClientSampleId :  
ICVBN112724



Tgt Ion:264 Resp: 8338  
Ion Ratio Lower Upper  
264 100  
260 26.8 21.4 32.2  
265 56.1 40.2 60.4

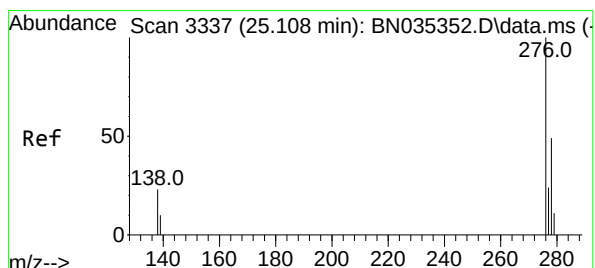
Manual Integrations  
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Supervised By :mohammad ahmed 11/29/2024



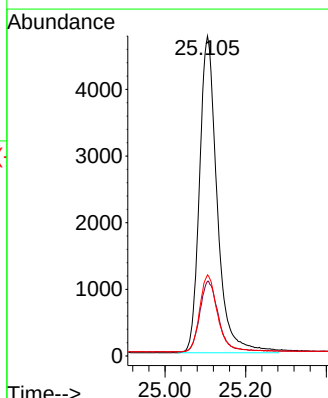
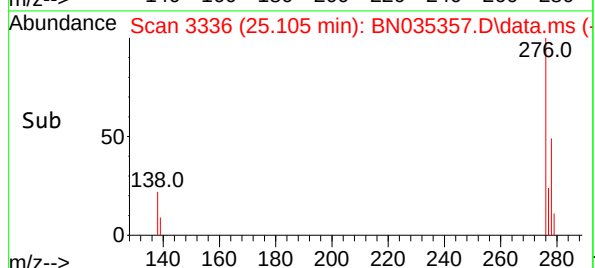
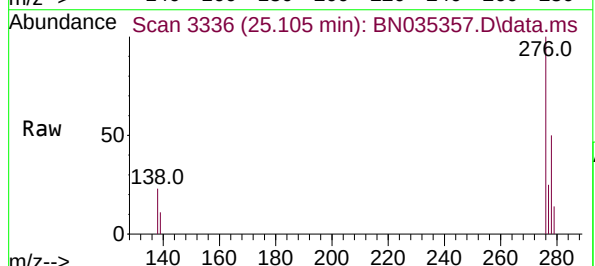
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Supervised By :mohammad  
ahmed

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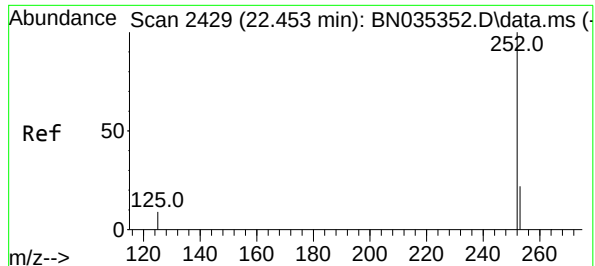


#36  
Indeno(1,2,3-cd)pyrene  
Concen: 0.443 ng  
RT: 25.105 min Scan# 3336  
Delta R.T. -0.003 min  
Lab File: BN035357.D  
Acq: 27 Nov 2024 20:21

Tgt Ion:276 Resp: 14433  
Ion Ratio Lower Upper  
276 100  
138 23.5 19.4 29.0  
277 24.6 19.8 29.6







#37

Benzo(b)fluoranthene

Concen: 0.426 ng

RT: 22.453 min Scan# 2429

Delta R.T. -0.000 min

Lab File: BN035357.D

Acq: 27 Nov 2024 20:21

Instrument :

BNA\_N

ClientSampleId :

ICVBN112724

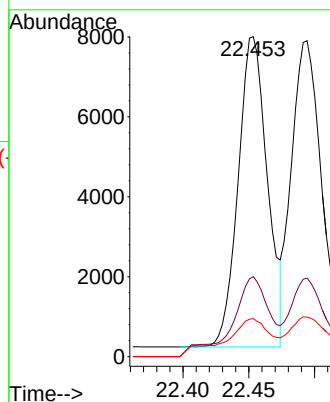
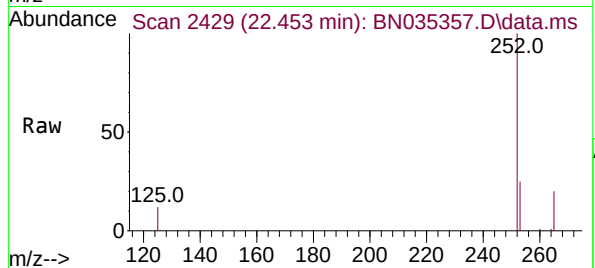
|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 252   | Resp: | 12988 |
| Ion Ratio | Lower | Upper |       |
| 252       | 100   |       |       |
| 253       | 25.0  | 19.6  | 29.4  |
| 125       | 11.9  | 9.6   | 14.4  |

Manual Integrations

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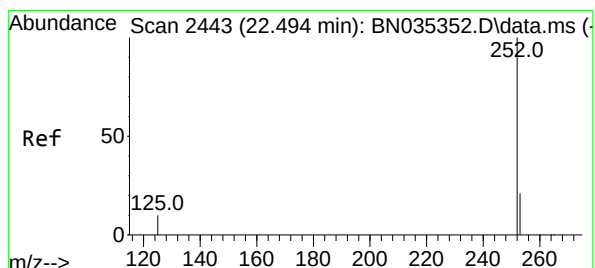
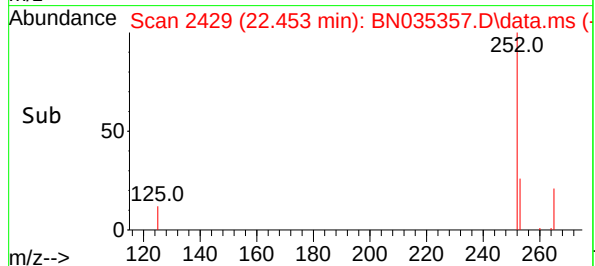
Reviewed By :Yogesh Patel 11/29/2024

Supervised By :mohammad ahmed 11/29/2024



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#38

Benzo(k)fluoranthene

Concen: 0.422 ng

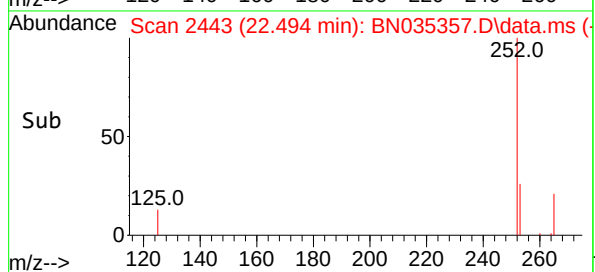
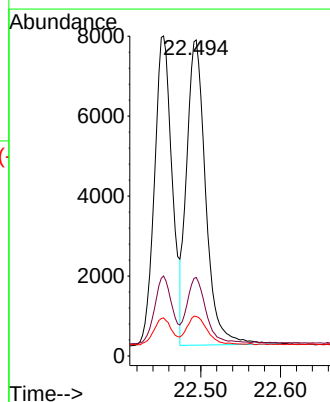
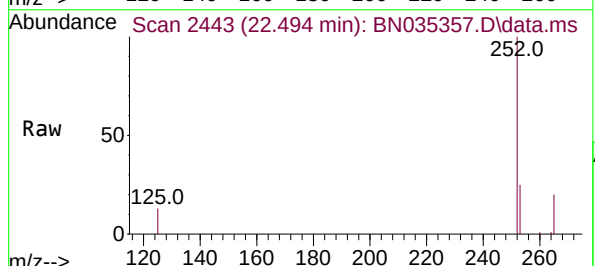
RT: 22.494 min Scan# 2443

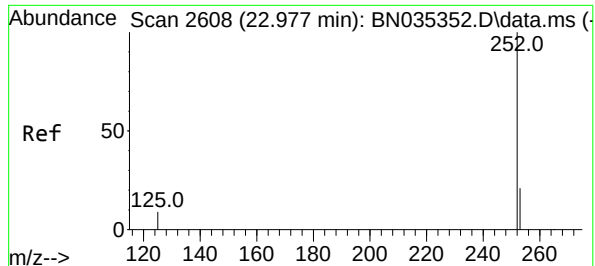
Delta R.T. -0.000 min

Lab File: BN035357.D

Acq: 27 Nov 2024 20:21

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 252   | Resp: | 12669 |
| Ion Ratio | Lower | Upper |       |
| 252       | 100   |       |       |
| 253       | 24.8  | 19.5  | 29.3  |
| 125       | 12.5  | 10.2  | 15.4  |





#39

Benzo(a)pyrene

Concen: 0.442 ng

RT: 22.974 min Scan# 2607

Delta R.T. -0.003 min

Lab File: BN035357.D

Acq: 27 Nov 2024 20:21

Instrument :

BNA\_N

ClientSampleId :

ICVBN112724

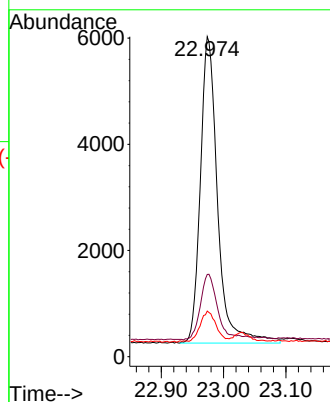
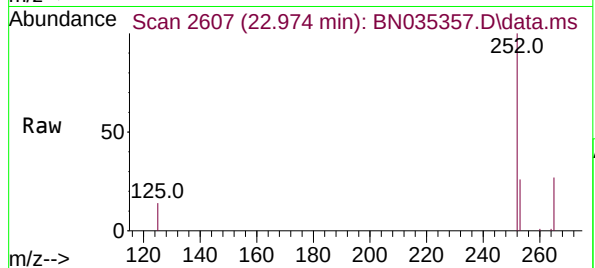
|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 252   | Resp: | 11094 |
| Ion Ratio | Lower | Upper |       |
| 252       | 100   |       |       |
| 253       | 25.7  | 20.2  | 30.4  |
| 125       | 14.3  | 10.9  | 16.3  |

Manual Integrations

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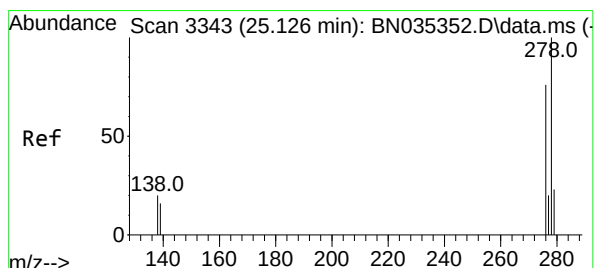
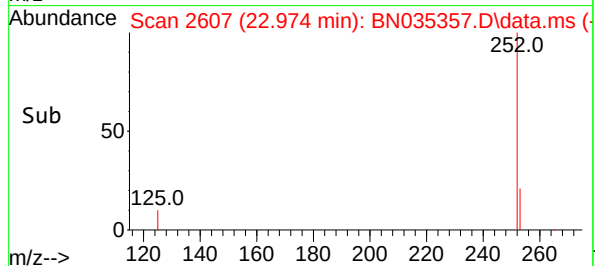
Reviewed By :Yogesh Patel 11/29/2024

Supervised By :mohammad ahmed 11/29/2024



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Supervised By :mohammad  
ahmed

11/29/2024



#40

Dibenzo(a,h)anthracene

Concen: 0.433 ng

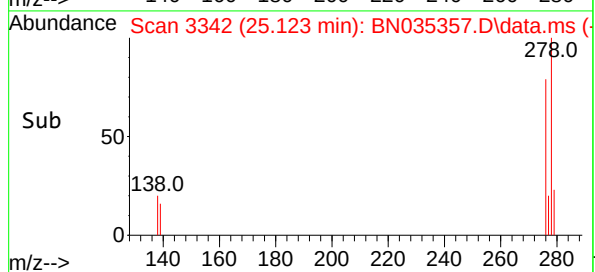
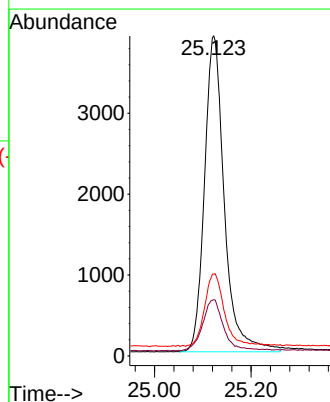
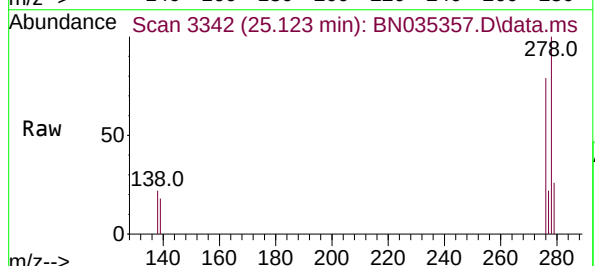
RT: 25.123 min Scan# 3342

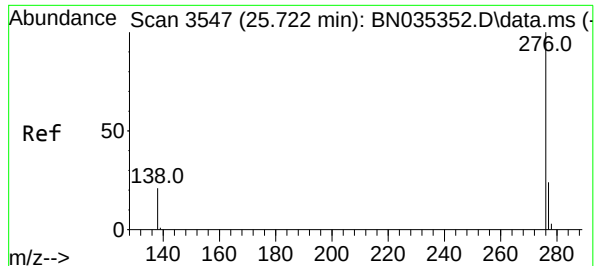
Delta R.T. -0.003 min

Lab File: BN035357.D

Acq: 27 Nov 2024 20:21

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 278   | Resp: | 11141 |
| Ion Ratio | Lower | Upper |       |
| 278       | 100   |       |       |
| 139       | 17.6  | 14.2  | 21.4  |
| 279       | 25.6  | 20.5  | 30.7  |





#41

Benzo(g,h,i)perylene

Concen: 0.404 ng

RT: 25.722 min Scan# 3

Delta R.T. -0.000 min

Lab File: BN035357.D

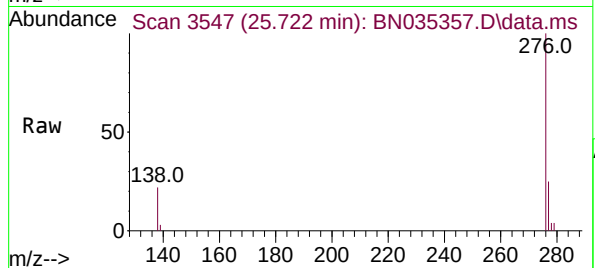
Acq: 27 Nov 2024 20:21

Instrument :

BNA\_N

ClientSampleId :

ICVBN112724



Tgt Ion:276 Resp: 10870

Ion Ratio Lower Upper

276 100

277 24.7 19.9 29.9

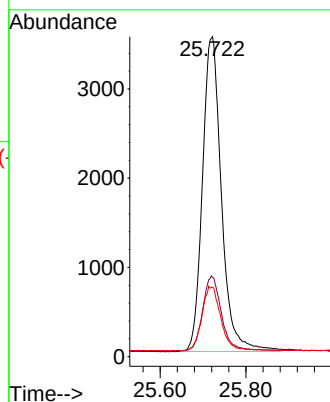
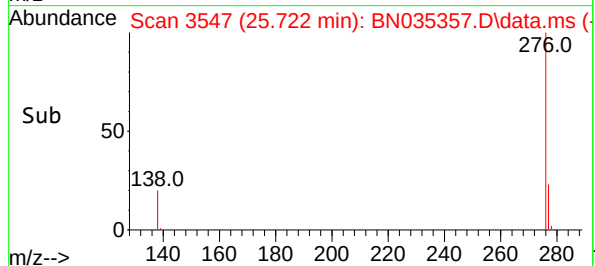
138 21.7 17.8 26.8

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 11/29/2024

Supervised By :mohammad ahmed 11/29/2024



11/29/2024

Supervised By :mohammad  
ahmed

11/29/2024

Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN112724\  
 Data File : BN035357.D  
 Acq On : 27 Nov 2024 20:21  
 Operator : RC/JU  
 Sample : SSTDICV0.4  
 Misc :  
 ALS Vial : 10 Sample Multiplier: 1

Instrument :  
 BNA\_N  
 ClientSampleId :  
 ICVBN112724

Quant Time: Nov 27 23:06:03 2024  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\8270-SIM-BN112724.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Wed Nov 27 23:03:24 2024  
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min  
 Max. RRF Dev : 25% Max. Rel. Area : 150%

|         | Compound                   | AvgRF | CCRF  | %Dev  | Area% | Dev(min) |
|---------|----------------------------|-------|-------|-------|-------|----------|
| 1 I     | 1,4-Dichlorobenzene-d4     | 1.000 | 1.000 | 0.0   | 75    | 0.00     |
| 2       | 1,4-Dioxane                | 0.382 | 0.444 | -16.2 | 89    | 0.00     |
| 3       | n-Nitrosodimethylamine     | 0.319 | 0.321 | -0.6  | 74    | 0.00     |
| 4 S     | 2-Fluorophenol             | 1.001 | 0.831 | 17.0  | 61    | 0.00     |
| 5 S     | Phenol-d6                  | 1.204 | 0.933 | 22.5  | 59    | 0.00     |
| 6       | bis(2-Chloroethyl)ether    | 1.012 | 1.088 | -7.5  | 82    | 0.00     |
| 7 I     | Naphthalene-d8             | 1.000 | 1.000 | 0.0   | 75    | 0.00     |
| 8 S     | Nitrobenzene-d5            | 0.244 | 0.240 | 1.6   | 76    | 0.00     |
| 9       | Naphthalene                | 1.055 | 1.118 | -6.0  | 80    | 0.00     |
| 10      | Hexachlorobutadiene        | 0.243 | 0.257 | -5.8  | 78    | 0.00     |
| 11 SURR | 2-Methylnaphthalene-d10    | 0.626 | 0.657 | -5.0  | 79    | 0.00     |
| 12      | 2-Methylnaphthalene        | 0.755 | 0.809 | -7.2  | 82    | 0.00     |
| 13 I    | Acenaphthene-d10           | 1.000 | 1.000 | 0.0   | 76    | 0.00     |
| 14 S    | 2,4,6-Tribromophenol       | 0.284 | 0.214 | 24.6  | 63    | 0.00     |
| 15 S    | 2-Fluorobiphenyl           | 1.512 | 1.614 | -6.7  | 81    | 0.00     |
| 16      | Acenaphthylene             | 1.680 | 1.827 | -8.8  | 87    | 0.00     |
| 17      | Acenaphthene               | 1.115 | 1.188 | -6.5  | 83    | 0.00     |
| 18      | Fluorene                   | 1.596 | 1.676 | -5.0  | 82    | 0.00     |
| 19 I    | Phenanthrene-d10           | 1.000 | 1.000 | 0.0   | 77    | -0.01    |
| 20      | 4,6-Dinitro-2-methylphenol | 0.039 | 0.036 | 7.7   | 78    | 0.00     |
| 21      | 4-Bromophenyl-phenylether  | 0.234 | 0.237 | -1.3  | 81    | 0.00     |
| 22      | Hexachlorobenzene          | 0.275 | 0.293 | -6.5  | 83    | 0.00     |
| 23      | Atrazine                   | 0.167 | 0.167 | 0.0   | 84    | 0.00     |
| 24      | Pentachlorophenol          | 0.120 | 0.090 | 25.0  | 73    | 0.00     |
| 25      | Phenanthrene               | 1.099 | 1.158 | -5.4  | 84    | 0.00     |
| 26      | Anthracene                 | 0.994 | 1.068 | -7.4  | 88    | 0.00     |
| 27 SURR | Fluoranthene-d10           | 1.134 | 1.145 | -1.0  | 82    | 0.00     |
| 28      | Fluoranthene               | 1.481 | 1.489 | -0.5  | 81    | 0.00     |
| 29 I    | Chrysene-d12               | 1.000 | 1.000 | 0.0   | 80    | 0.00     |
| 30      | Pyrene                     | 1.477 | 1.515 | -2.6  | 82    | 0.00     |
| 31 S    | Terphenyl-d14              | 0.789 | 0.828 | -4.9  | 83    | 0.00     |
| 32      | Benzo(a)anthracene         | 1.399 | 1.443 | -3.1  | 85    | 0.00     |
| 33      | Chrysene                   | 1.443 | 1.574 | -9.1  | 87    | 0.00     |
| 34      | Bis(2-ethylhexyl)phthalate | 0.553 | 0.530 | 4.2   | 82    | 0.00     |
| 35 I    | Perylene-d12               | 1.000 | 1.000 | 0.0   | 77    | 0.00     |
| 36      | Indeno(1,2,3-cd)pyrene     | 1.564 | 1.731 | -10.7 | 87    | 0.00     |
| 37      | Benzo(b)fluoranthene       | 1.463 | 1.558 | -6.5  | 91    | 0.00     |
| 38      | Benzo(k)fluoranthene       | 1.440 | 1.519 | -5.5  | 83    | 0.00     |
| 39 C    | Benzo(a)pyrene             | 1.205 | 1.331 | -10.5 | 89    | 0.00     |
| 40      | Dibenzo(a,h)anthracene     | 1.234 | 1.336 | -8.3  | 86    | 0.00     |
| 41      | Benzo(g,h,i)perylene       | 1.289 | 1.304 | -1.2  | 80    | 0.00     |

(#) = Out of Range

SPCC's out = 0 CCC's out = 0

Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN112724\  
 Data File : BN035357.D  
 Acq On : 27 Nov 2024 20:21  
 Operator : RC/JU  
 Sample : SSTDICV0.4  
 Misc :  
 ALS Vial : 10 Sample Multiplier: 1

Instrument :  
 BNA\_N  
 ClientSampleId :  
 ICVBN112724

Quant Time: Nov 27 23:06:03 2024  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\8270-SIM-BN112724.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Wed Nov 27 23:03:24 2024  
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min  
 Max. RRF Dev : 25% Max. Rel. Area : 150%

|         | Compound                   | Amount | Calc. | %Dev  | Area% | Dev(min) |
|---------|----------------------------|--------|-------|-------|-------|----------|
| 1 I     | 1,4-Dichlorobenzene-d4     | 0.400  | 0.400 | 0.0   | 75    | 0.00     |
| 2       | 1,4-Dioxane                | 0.400  | 0.465 | -16.3 | 89    | 0.00     |
| 3       | n-Nitrosodimethylamine     | 0.400  | 0.404 | -1.0  | 74    | 0.00     |
| 4 S     | 2-Fluorophenol             | 0.400  | 0.332 | 17.0  | 61    | 0.00     |
| 5 S     | Phenol-d6                  | 0.400  | 0.310 | 22.5  | 59    | 0.00     |
| 6       | bis(2-Chloroethyl)ether    | 0.400  | 0.430 | -7.5  | 82    | 0.00     |
| 7 I     | Naphthalene-d8             | 0.400  | 0.400 | 0.0   | 75    | 0.00     |
| 8 S     | Nitrobenzene-d5            | 0.400  | 0.393 | 1.8   | 76    | 0.00     |
| 9       | Naphthalene                | 0.400  | 0.424 | -6.0  | 80    | 0.00     |
| 10      | Hexachlorobutadiene        | 0.400  | 0.423 | -5.7  | 78    | 0.00     |
| 11 SURR | 2-Methylnaphthalene-d10    | 0.400  | 0.420 | -5.0  | 79    | 0.00     |
| 12      | 2-Methylnaphthalene        | 0.400  | 0.428 | -7.0  | 82    | 0.00     |
| 13 I    | Acenaphthene-d10           | 0.400  | 0.400 | 0.0   | 76    | 0.00     |
| 14 S    | 2,4,6-Tribromophenol       | 0.400  | 0.302 | 24.5  | 63    | 0.00     |
| 15 S    | 2-Fluorobiphenyl           | 0.400  | 0.427 | -6.7  | 81    | 0.00     |
| 16      | Acenaphthylene             | 0.400  | 0.435 | -8.7  | 87    | 0.00     |
| 17      | Acenaphthene               | 0.400  | 0.426 | -6.5  | 83    | 0.00     |
| 18      | Fluorene                   | 0.400  | 0.420 | -5.0  | 82    | 0.00     |
| 19 I    | Phenanthrene-d10           | 0.400  | 0.400 | 0.0   | 77    | -0.01    |
| 20      | 4,6-Dinitro-2-methylphenol | 0.400  | 0.364 | 9.0   | 78    | 0.00     |
| 21      | 4-Bromophenyl-phenylether  | 0.400  | 0.405 | -1.3  | 81    | 0.00     |
| 22      | Hexachlorobenzene          | 0.400  | 0.426 | -6.5  | 83    | 0.00     |
| 23      | Atrazine                   | 0.400  | 0.401 | -0.3  | 84    | 0.00     |
| 24      | Pentachlorophenol          | 0.400  | 0.301 | 24.8  | 73    | 0.00     |
| 25      | Phenanthrene               | 0.400  | 0.421 | -5.2  | 84    | 0.00     |
| 26      | Anthracene                 | 0.400  | 0.430 | -7.5  | 88    | 0.00     |
| 27 SURR | Fluoranthene-d10           | 0.400  | 0.404 | -1.0  | 82    | 0.00     |
| 28      | Fluoranthene               | 0.400  | 0.402 | -0.5  | 81    | 0.00     |
| 29 I    | Chrysene-d12               | 0.400  | 0.400 | 0.0   | 80    | 0.00     |
| 30      | Pyrene                     | 0.400  | 0.410 | -2.5  | 82    | 0.00     |
| 31 S    | Terphenyl-d14              | 0.400  | 0.420 | -5.0  | 83    | 0.00     |
| 32      | Benzo(a)anthracene         | 0.400  | 0.413 | -3.2  | 85    | 0.00     |
| 33      | Chrysene                   | 0.400  | 0.436 | -9.0  | 87    | 0.00     |
| 34      | Bis(2-ethylhexyl)phthalate | 0.400  | 0.384 | 4.0   | 82    | 0.00     |
| 35 I    | Perylene-d12               | 0.400  | 0.400 | 0.0   | 77    | 0.00     |
| 36      | Indeno(1,2,3-cd)pyrene     | 0.400  | 0.443 | -10.7 | 87    | 0.00     |
| 37      | Benzo(b)fluoranthene       | 0.400  | 0.426 | -6.5  | 91    | 0.00     |
| 38      | Benzo(k)fluoranthene       | 0.400  | 0.422 | -5.5  | 83    | 0.00     |
| 39 C    | Benzo(a)pyrene             | 0.400  | 0.442 | -10.5 | 89    | 0.00     |
| 40      | Dibenzo(a,h)anthracene     | 0.400  | 0.433 | -8.2  | 86    | 0.00     |
| 41      | Benzo(g,h,i)perylene       | 0.400  | 0.404 | -1.0  | 80    | 0.00     |

(#) = Out of Range

SPCC's out = 0 CCC's out = 0



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

7C

## SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: TETR06

Lab Code: CHEM Case No.: P4959 SAS No.: P4959 SDG No.: P4959

Instrument ID: BNA\_N Calibration Date/Time: 11/25/2024 23:02

Lab File ID: BN035293.D Init. Calib. Date(s): 11/25/2024 11/25/2024

EPA Sample No.: SSTDCCC0.4 Init. Calib. Time(s): 10:16 13:52

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

| COMPOUND                | RRF   | RRF0.4 | MIN<br>RRF | %D    | MAX%D |
|-------------------------|-------|--------|------------|-------|-------|
| 2-Methylnaphthalene-d10 | 0.560 | 0.590  |            | 5.4   | 20.0  |
| Fluoranthene-d10        | 1.070 | 0.923  |            | -13.7 | 20.0  |
| 2-Fluorophenol          | 0.756 | 0.976  |            | 29.1  | 20.0  |
| Phenol-d6               | 1.056 | 1.259  |            | 19.2  | 20.0  |
| Nitrobenzene-d5         | 0.324 | 0.198  |            | -38.9 | 20.0  |
| 2-Fluorobiphenyl        | 0.221 | 0.145  |            | -34.4 | 20.0  |
| 2,4,6-Tribromophenol    | 0.204 | 0.212  |            | 3.9   | 20.0  |
| Terphenyl-d14           | 7.392 | 8.364  |            | 13.1  | 20.0  |
| 1,4-Dioxane             | 0.288 | 0.361  |            | 25.3  | 20.0  |

All other compounds must meet a minimum RRF of 0.010.

Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN112524\  
 Data File : BN035293.D  
 Acq On : 25 Nov 2024 23:02  
 Operator : RC/JU  
 Sample : SSTDCCC0.4  
 Misc :  
 ALS Vial : 76 Sample Multiplier: 1

Instrument :  
 BNA\_N  
 ClientSampleId :  
 SSTDCCC0.4

Manual Integrations  
 APPROVED

Reviewed By :Yogesh Patel 11/27/2024  
 Supervised By :mohammad ahmed 11/27/2024

Quant Time: Nov 26 02:53:31 2024  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\8270-SIM-BN112524.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Tue Nov 26 02:36:08 2024  
 Response via : Initial Calibration

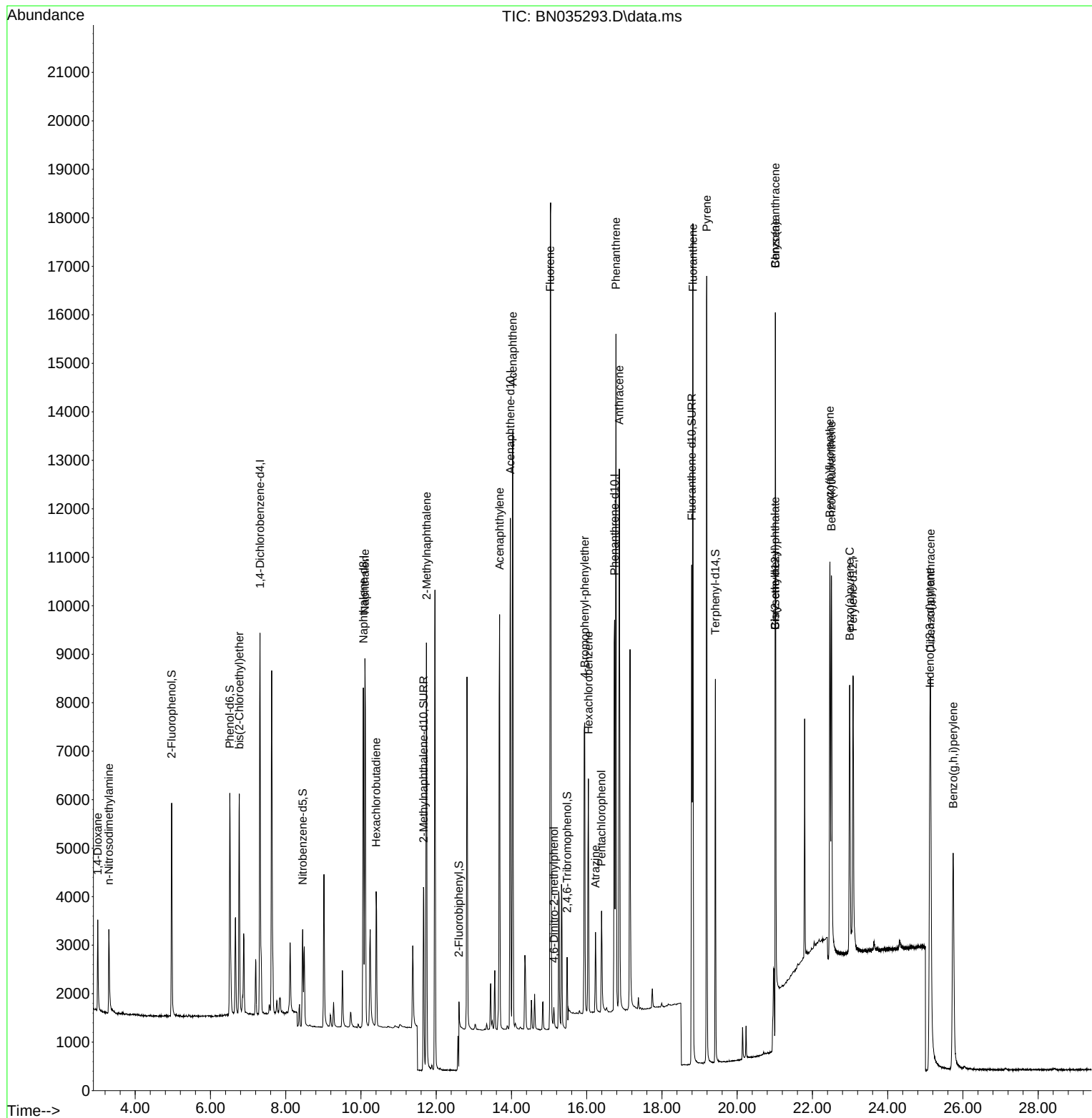
| Compound                      | R.T.   | QIon | Response | Conc  | Units | Dev(Min) |
|-------------------------------|--------|------|----------|-------|-------|----------|
| -----                         |        |      |          |       |       |          |
| Internal Standards            |        |      |          |       |       |          |
| 1) 1,4-Dichlorobenzene-d4     | 7.315  | 152  | 3724     | 0.400 | ng    | 0.00     |
| 7) Naphthalene-d8             | 10.063 | 136  | 9273     | 0.400 | ng    | # 0.00   |
| 13) Acenaphthene-d10          | 13.973 | 164  | 5865     | 0.400 | ng    | # 0.00   |
| 19) Phenanthrene-d10          | 16.741 | 188  | 12563    | 0.400 | ng    | # 0.00   |
| 29) Chrysene-d12              | 21.006 | 240  | 932      | 0.400 | ng    | # 0.00   |
| 35) Perylene-d12              | 23.078 | 264  | 7119     | 0.400 | ng    | # 0.00   |
|                               |        |      |          |       |       |          |
| System Monitoring Compounds   |        |      |          |       |       |          |
| 4) 2-Fluorophenol             | 4.968  | 112  | 3633     | 0.516 | ng    | 0.00     |
| 5) Phenol-d6                  | 6.513  | 99   | 4690     | 0.477 | ng    | 0.00     |
| 8) Nitrobenzene-d5            | 8.450  | 82   | 1837m    | 0.244 | ng    | 0.00     |
| 11) 2-Methylnaphthalene-d10   | 11.663 | 152  | 5475     | 0.422 | ng    | 0.00     |
| 14) 2,4,6-Tribromophenol      | 15.480 | 330  | 1245     | 0.416 | ng    | 0.00     |
| 15) 2-Fluorobiphenyl          | 12.604 | 172  | 851      | 0.263 | ng    | 0.00     |
| 27) Fluoranthene-d10          | 18.790 | 212  | 11601    | 0.345 | ng    | 0.00     |
| 31) Terphenyl-d14             | 19.422 | 244  | 7795     | 0.453 | ng    | 0.00     |
|                               |        |      |          |       |       |          |
| Target Compounds              |        |      |          |       |       | Qvalue   |
| 2) 1,4-Dioxane                | 3.003  | 88   | 1344     | 0.502 | ng    | # 72     |
| 3) n-Nitrosodimethylamine     | 3.299  | 42   | 1095     | 0.395 | ng    | # 72     |
| 6) bis(2-Chloroethyl)ether    | 6.766  | 93   | 3610     | 0.436 | ng    | 98       |
| 9) Naphthalene                | 10.105 | 128  | 9911     | 0.385 | ng    | 100      |
| 10) Hexachlorobutadiene       | 10.404 | 225  | 2320     | 0.321 | ng    | # 100    |
| 12) 2-Methylnaphthalene       | 11.742 | 142  | 6764     | 0.402 | ng    | 98       |
| 16) Acenaphthylene            | 13.684 | 152  | 9720     | 0.329 | ng    | 99       |
| 17) Acenaphthene              | 14.037 | 154  | 6539     | 0.352 | ng    | # 85     |
| 18) Fluorene                  | 15.031 | 166  | 8779     | 0.337 | ng    | 98       |
| 20) 4,6-Dinitro-2-methylph... | 15.127 | 198  | 368      | 0.392 | ng    | 96       |
| 21) 4-Bromophenyl-phenylether | 15.946 | 248  | 3083     | 0.387 | ng    | # 78     |
| 22) Hexachlorobenzene         | 16.046 | 284  | 3763     | 0.330 | ng    | 99       |
| 23) Atrazine                  | 16.232 | 200  | 1428     | 0.425 | ng    | 99       |
| 24) Pentachlorophenol         | 16.393 | 266  | 1142     | 0.417 | ng    | 98       |
| 25) Phenanthrene              | 16.778 | 178  | 13726    | 0.356 | ng    | 100      |
| 26) Anthracene                | 16.865 | 178  | 11907    | 0.359 | ng    | 100      |
| 28) Fluoranthene              | 18.822 | 202  | 15419    | 0.317 | ng    | 100      |
| 30) Pyrene                    | 19.189 | 202  | 14952    | 0.441 | ng    | 100      |
| 32) Benzo(a)anthracene        | 21.015 | 228  | 11234    | 0.346 | ng    | 99       |
| 33) Chrysene                  | 21.015 | 228  | 11234    | 0.346 | ng    | 99       |
| 34) Bis(2-ethylhexyl)phtha... | 21.006 | 149  | 416      | 0.233 | ng    | # 64     |
| 36) Indeno(1,2,3-cd)pyrene    | 25.119 | 276  | 11225    | 0.385 | ng    | 99       |
| 37) Benzo(b)fluoranthene      | 22.464 | 252  | 9762     | 0.316 | ng    | 98       |
| 38) Benzo(k)fluoranthene      | 22.505 | 252  | 10556    | 0.323 | ng    | 98       |
| 39) Benzo(a)pyrene            | 22.991 | 252  | 8259     | 0.349 | ng    | 97       |
| 40) Dibenzo(a,h)anthracene    | 25.140 | 278  | 8482     | 0.385 | ng    | 96       |
| 41) Benzo(g,h,i)perylene      | 25.742 | 276  | 9609     | 0.377 | ng    | 97       |

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

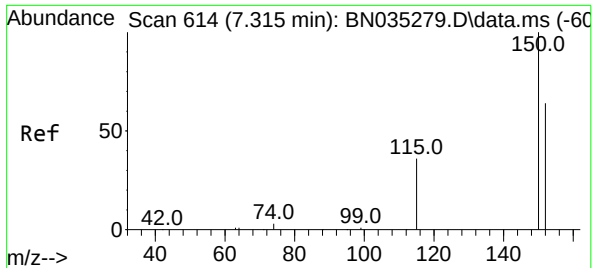
**Instrument :**  
BNA\_N  
**ClientSampleId :**  
SSTDCCC0.4

## Manual Integrations APPROVED

Reviewed By :Yogesh Patel 11/27/2024  
Supervised By :mohammad ahmed 11/27/2024

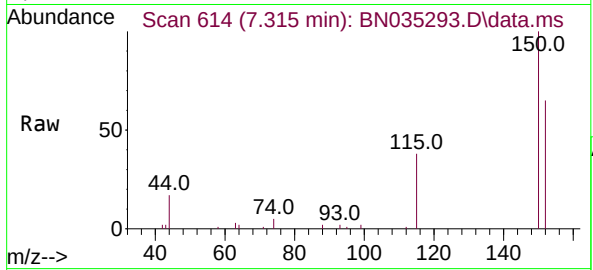






#1  
1,4-Dichlorobenzene-d4  
Concen: 0.400 ng  
RT: 7.315 min Scan# 614  
Delta R.T. 0.000 min  
Lab File: BN035293.D  
Acq: 25 Nov 2024 23:02

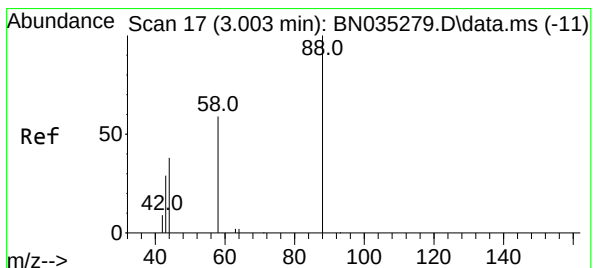
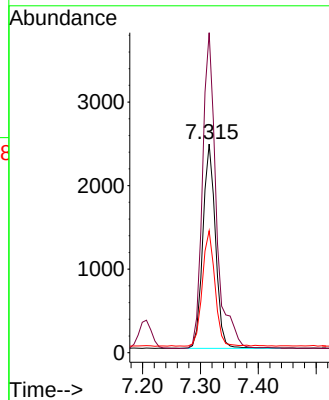
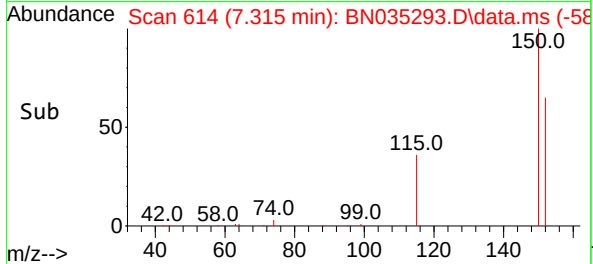
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDCCC0.4



Tgt Ion:152 Resp: 3724  
Ion Ratio Lower Upper  
152 100  
150 153.4 124.5 186.7  
115 58.4 47.8 71.8

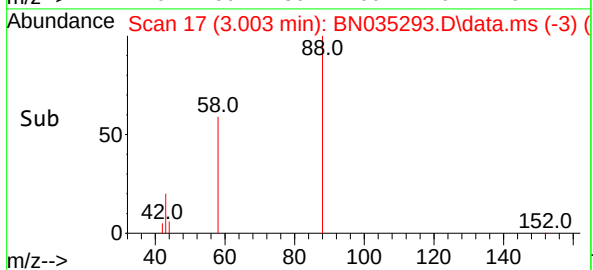
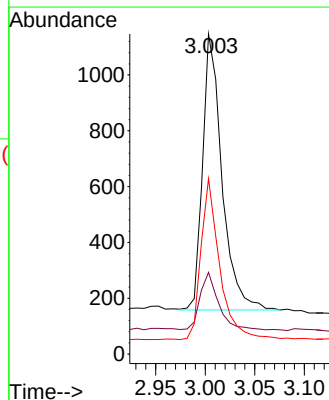
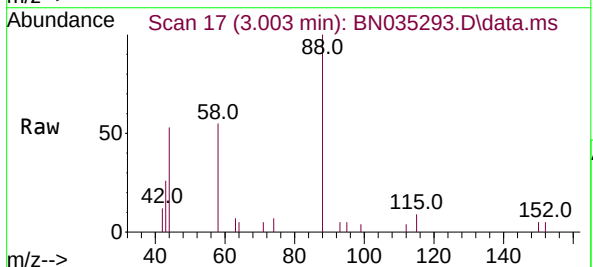
Manual Integrations  
APPROVED

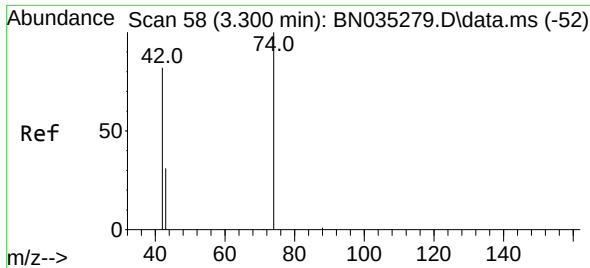
Reviewed By :Yogesh Patel 11/27/2024  
Supervised By :mohammad ahmed 11/27/2024



#2  
1,4-Dioxane  
Concen: 0.502 ng  
RT: 3.003 min Scan# 17  
Delta R.T. 0.000 min  
Lab File: BN035293.D  
Acq: 25 Nov 2024 23:02

Tgt Ion: 88 Resp: 1344  
Ion Ratio Lower Upper  
88 100  
43 19.7 48.1 72.1#  
58 56.6 46.9 70.3





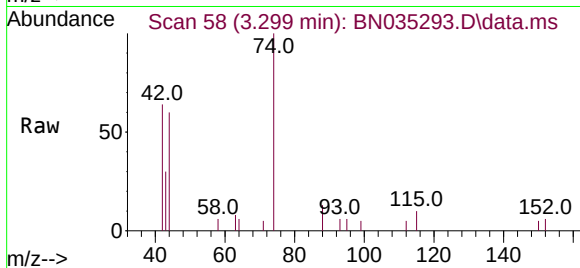
#3  
n-Nitrosodimethylamine  
Concen: 0.395 ng  
RT: 3.299 min Scan# 58  
Delta R.T. -0.001 min  
Lab File: BN035293.D  
Acq: 25 Nov 2024 23:02

Instrument :

BNA\_N

ClientSampleId :

SSTDCCC0.4

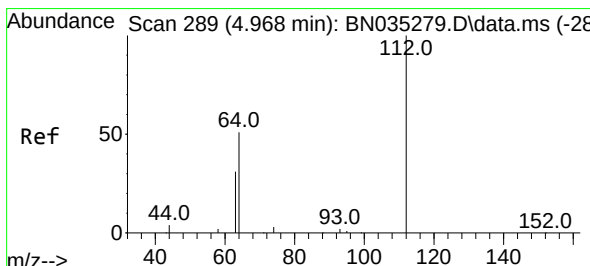
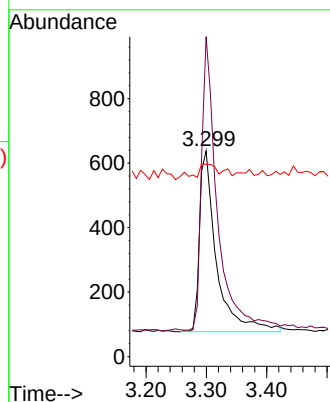
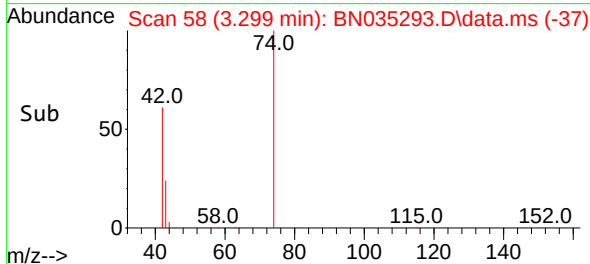


Tgt Ion: 42 Resp: 109  
Ion Ratio Lower Upper  
42 100  
74 151.0 102.7 154.1  
44 9.1 34.1 51.1

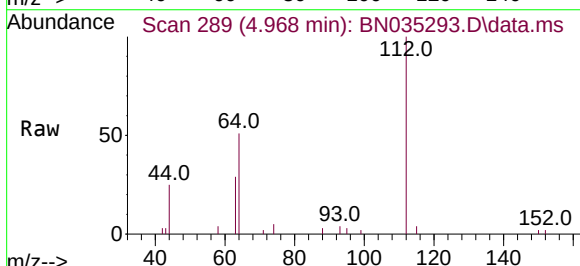
Manual Integrations

APPROVED

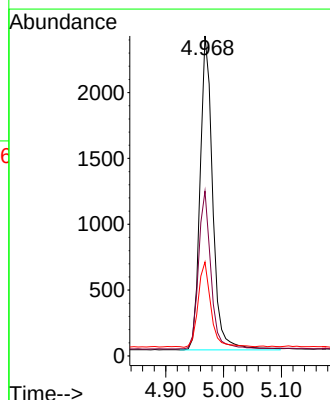
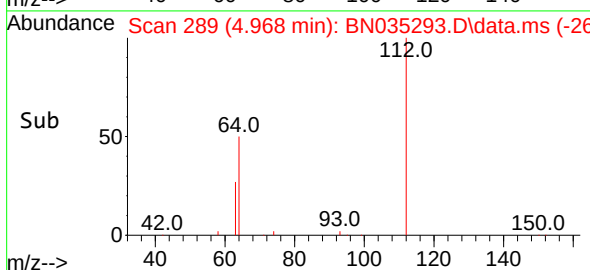
Reviewed By :Yogesh Patel 11/27/2024  
Supervised By :mohammad ahmed 11/27/2024

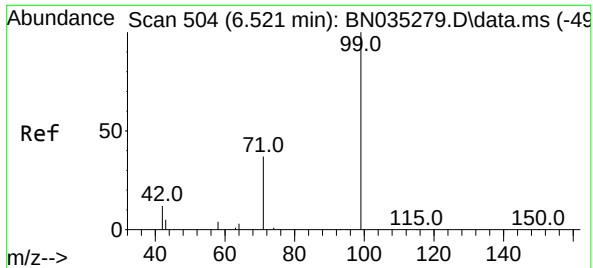


#4  
2-Fluorophenol  
Concen: 0.516 ng  
RT: 4.968 min Scan# 289  
Delta R.T. -0.000 min  
Lab File: BN035293.D  
Acq: 25 Nov 2024 23:02



Tgt Ion:112 Resp: 3633  
Ion Ratio Lower Upper  
112 100  
64 49.6 40.4 60.6  
63 27.7 23.8 35.8





#5  
Phenol-d6  
Concen: 0.477 ng  
RT: 6.513 min Scan# 504  
Delta R.T. -0.007 min  
Lab File: BN035293.D  
Acq: 25 Nov 2024 23:02

Instrument :

BNA\_N

ClientSampleId :

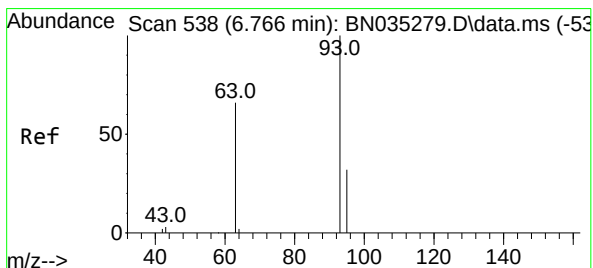
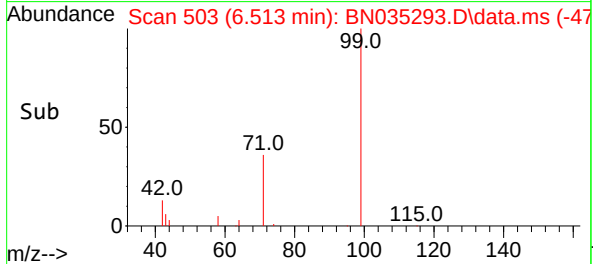
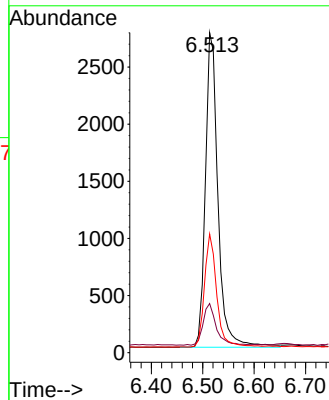
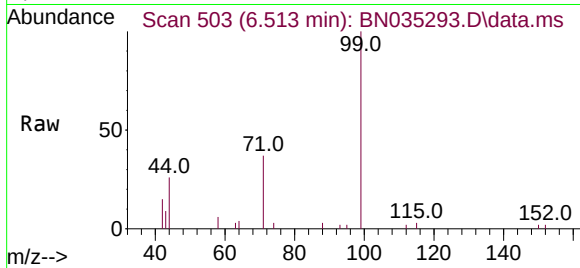
SSTDCCC0.4

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 99      | 100   |       |       |
| 42      | 13.7  | 12.8  | 19.2  |
| 71      | 35.0  | 31.4  | 47.2  |

Manual Integrations

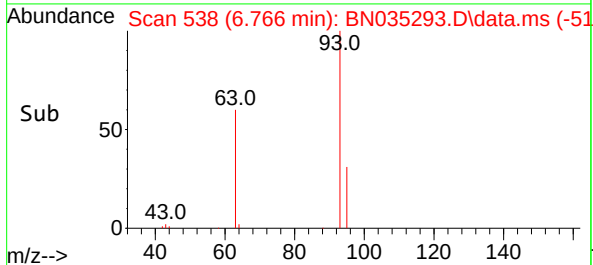
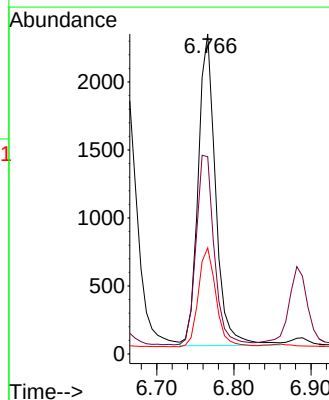
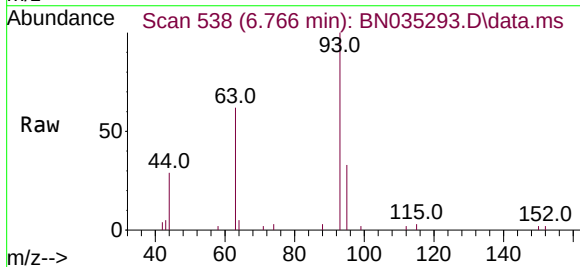
APPROVED

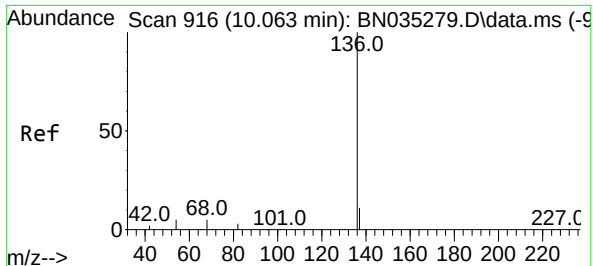
Reviewed By :Yogesh Patel 11/27/2024  
Supervised By :mohammad ahmed 11/27/2024



#6  
bis(2-Chloroethyl)ether  
Concen: 0.436 ng  
RT: 6.766 min Scan# 538  
Delta R.T. -0.000 min  
Lab File: BN035293.D  
Acq: 25 Nov 2024 23:02

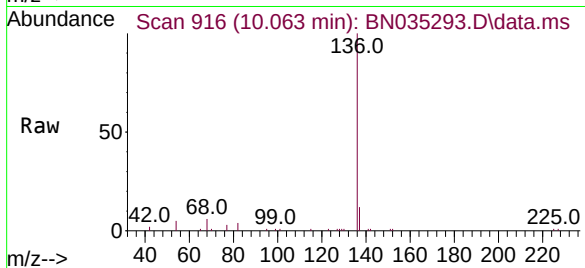
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 93      | 100   |       |       |
| 63      | 63.1  | 52.3  | 78.5  |
| 95      | 31.8  | 25.5  | 38.3  |





#7  
Naphthalene-d8  
Concen: 0.400 ng  
RT: 10.063 min Scan# 916  
Delta R.T. -0.000 min  
Lab File: BN035293.D  
Acq: 25 Nov 2024 23:02

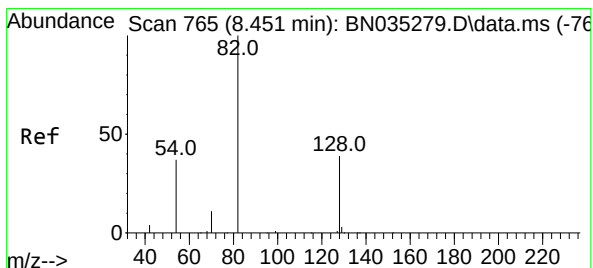
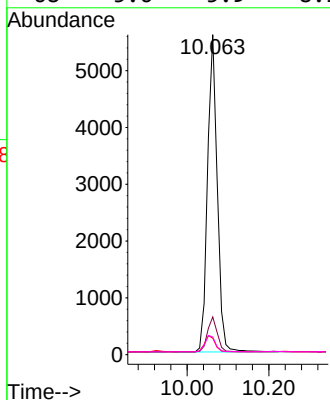
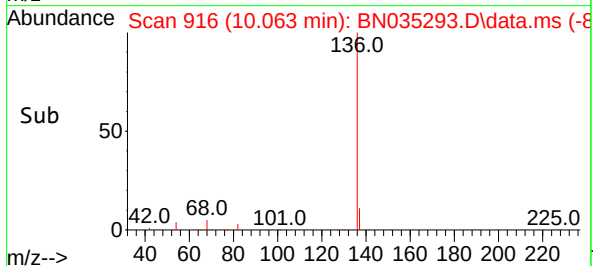
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDCCC0.4



Tgt Ion: 136 Resp: 927  
Ion Ratio Lower Upper  
136 100  
137 11.8 9.7 14.5  
54 5.2 5.3 7.9  
68 5.6 5.9 8.9#

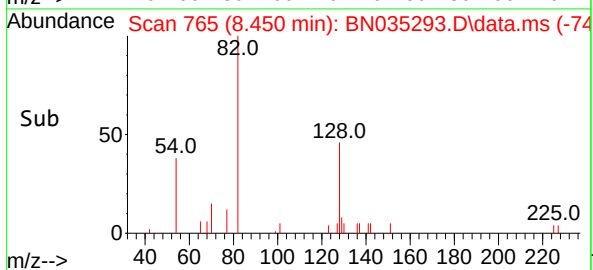
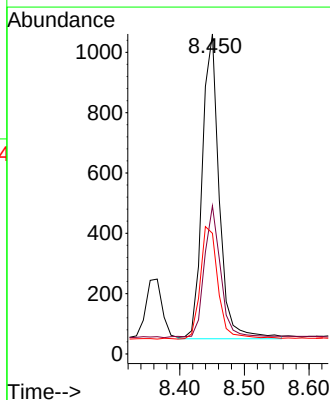
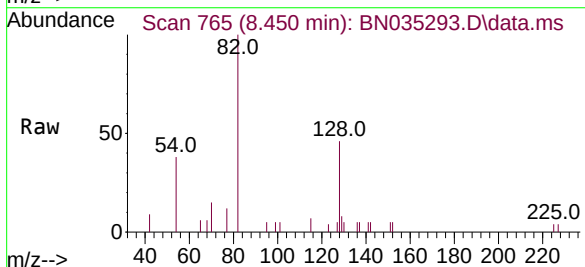
Manual Integrations  
APPROVED

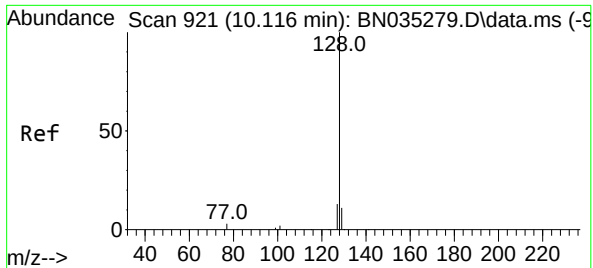
Reviewed By :Yogesh Patel 11/27/2024  
Supervised By :mohammad ahmed 11/27/2024



#8  
Nitrobenzene-d5  
Concen: 0.244 ng m  
RT: 8.450 min Scan# 765  
Delta R.T. -0.000 min  
Lab File: BN035293.D  
Acq: 25 Nov 2024 23:02

Tgt Ion: 82 Resp: 1837  
Ion Ratio Lower Upper  
82 100  
128 46.3 33.0 49.4  
54 37.7 33.3 49.9





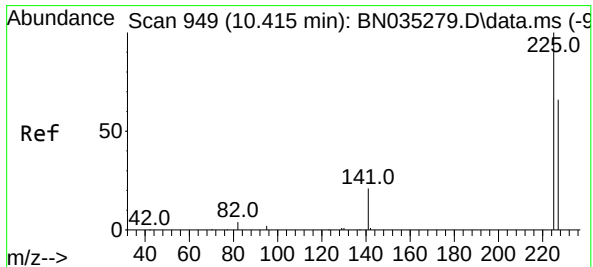
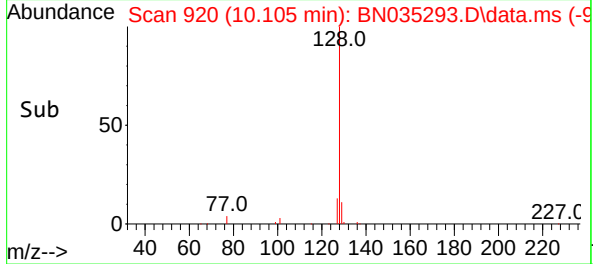
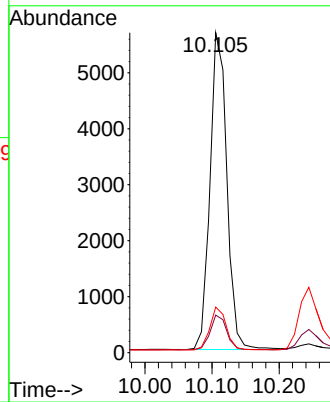
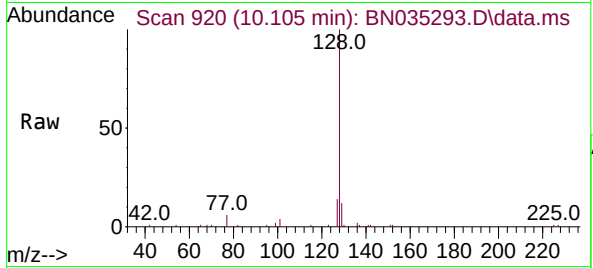
#9  
Naphthalene  
Concen: 0.385 ng  
RT: 10.105 min Scan# 911  
Delta R.T. -0.011 min  
Lab File: BN035293.D  
Acq: 25 Nov 2024 23:02

Instrument :  
BNA\_N  
ClientSampleId :  
SSTDCCC0.4

Tgt Ion:128 Resp: 991  
Ion Ratio Lower Upper  
128 100  
129 11.7 9.6 14.4  
127 14.2 11.3 16.9

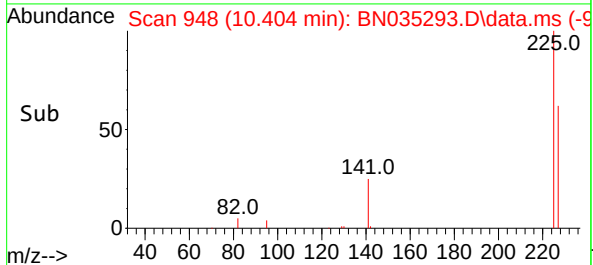
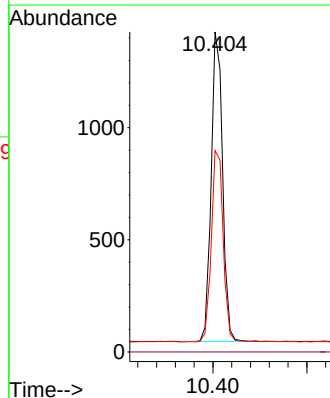
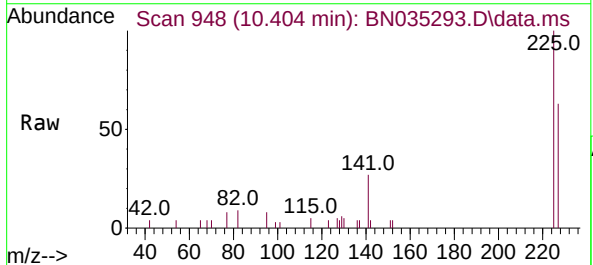
Manual Integrations  
APPROVED

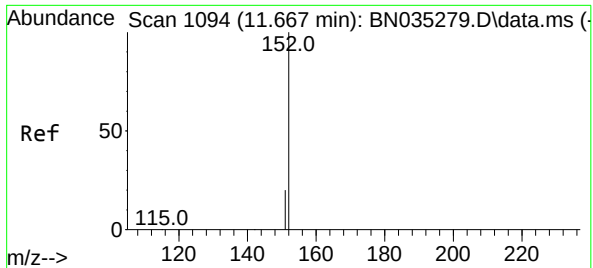
Reviewed By :Yogesh Patel 11/27/2024  
Supervised By :mohammad ahmed 11/27/2024



#10  
Hexachlorobutadiene  
Concen: 0.321 ng  
RT: 10.404 min Scan# 948  
Delta R.T. -0.011 min  
Lab File: BN035293.D  
Acq: 25 Nov 2024 23:02

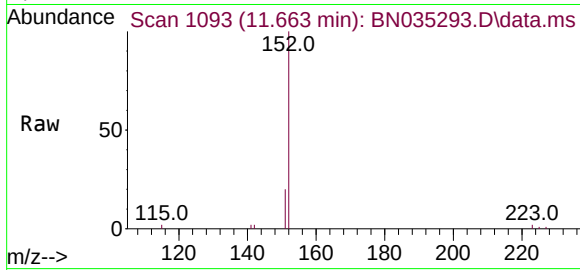
Tgt Ion:225 Resp: 2320  
Ion Ratio Lower Upper  
225 100  
223 0.0 0.0 0.0  
227 64.5 51.3 76.9





#11  
2-Methylnaphthalene-d10  
Concen: 0.422 ng  
RT: 11.663 min Scan# 1094  
Delta R.T. -0.004 min  
Lab File: BN035293.D  
Acq: 25 Nov 2024 23:02

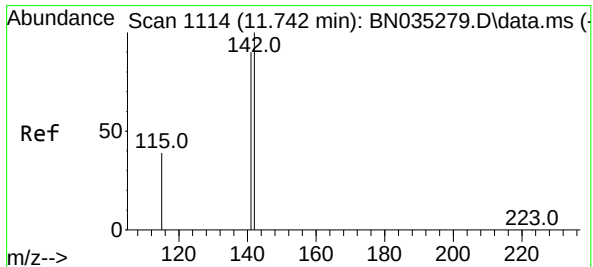
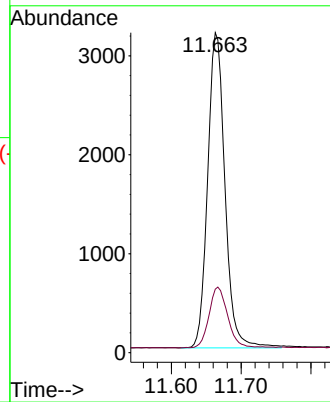
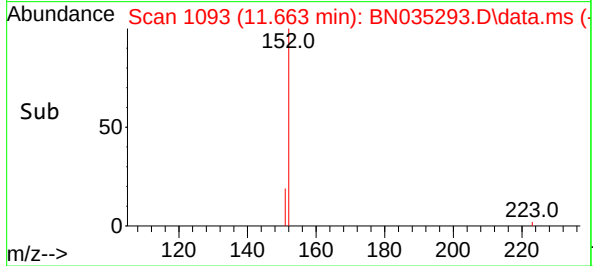
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDCCC0.4



Tgt Ion:152 Resp: 5475  
Ion Ratio Lower Upper  
152 100  
151 20.9 17.2 25.8

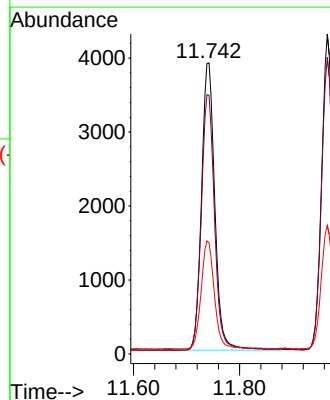
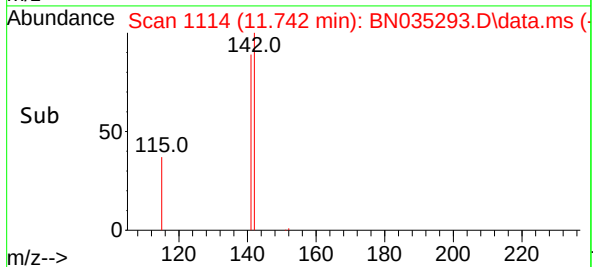
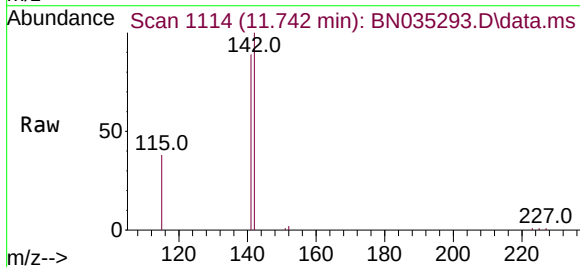
Manual Integrations  
**APPROVED**

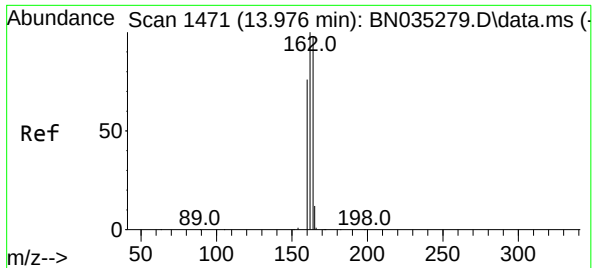
Reviewed By :Yogesh Patel 11/27/2024  
Supervised By :mohammad ahmed 11/27/2024



#12  
2-Methylnaphthalene  
Concen: 0.402 ng  
RT: 11.742 min Scan# 1114  
Delta R.T. 0.000 min  
Lab File: BN035293.D  
Acq: 25 Nov 2024 23:02

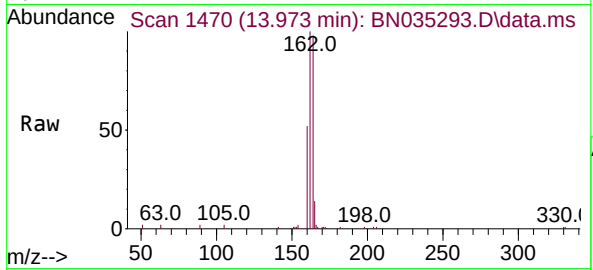
Tgt Ion:142 Resp: 6764  
Ion Ratio Lower Upper  
142 100  
141 88.9 71.8 107.8  
115 38.2 32.6 49.0





#13  
Acenaphthene-d10  
Concen: 0.400 ng  
RT: 13.973 min Scan# 1470  
Delta R.T. -0.004 min  
Lab File: BN035293.D  
Acq: 25 Nov 2024 23:02

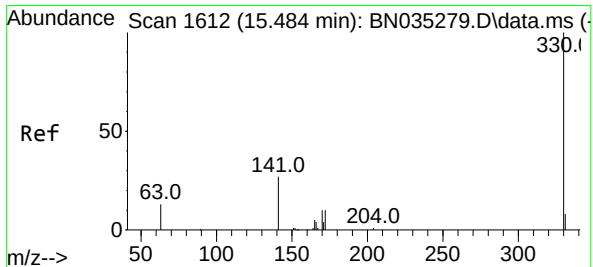
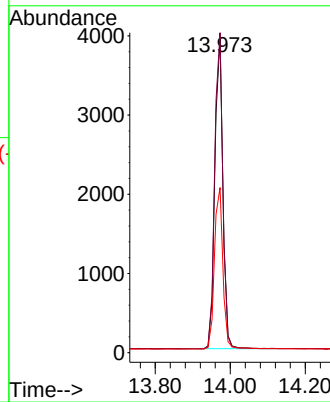
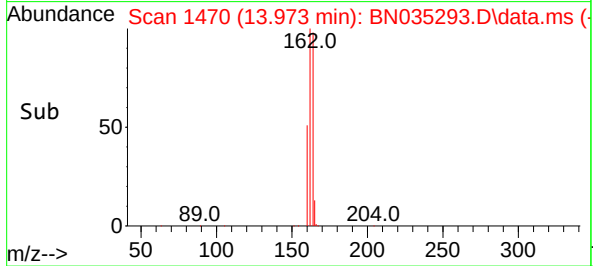
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDCCC0.4



Tgt Ion:164 Resp: 586  
Ion Ratio Lower Upper  
164 100  
162 101.6 82.0 123.0  
160 52.4 63.0 94.4

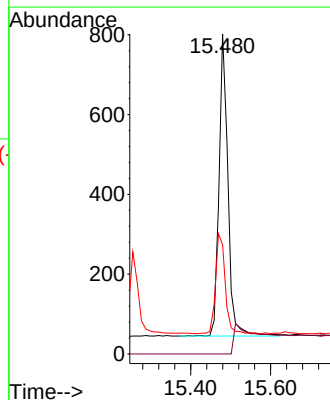
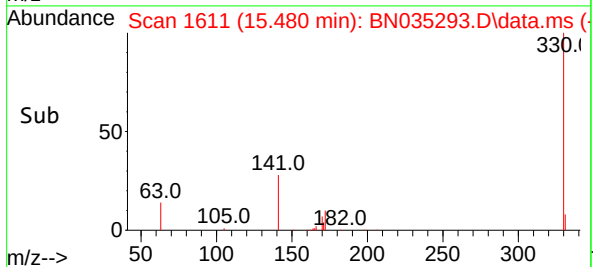
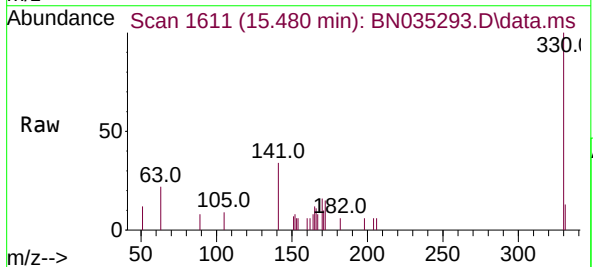
Manual Integrations  
**APPROVED**

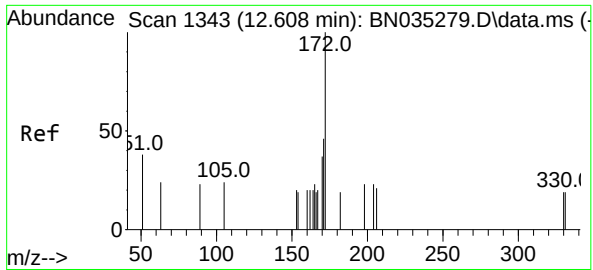
Reviewed By :Yogesh Patel 11/27/2024  
Supervised By :mohammad ahmed 11/27/2024



#14  
2,4,6-Tribromophenol  
Concen: 0.416 ng  
RT: 15.480 min Scan# 1611  
Delta R.T. -0.004 min  
Lab File: BN035293.D  
Acq: 25 Nov 2024 23:02

Tgt Ion:330 Resp: 1245  
Ion Ratio Lower Upper  
330 100  
332 0.0 0.0 0.0  
141 36.1 32.4 48.6





#15  
2-Fluorobiphenyl  
Concen: 0.263 ng  
RT: 12.604 min Scan# 1442  
Delta R.T. -0.004 min  
Lab File: BN035293.D  
Acq: 25 Nov 2024 23:02

Instrument :

BNA\_N

ClientSampleId :

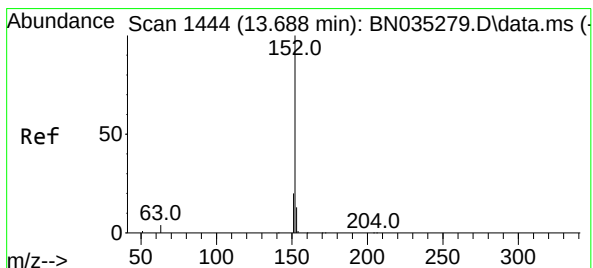
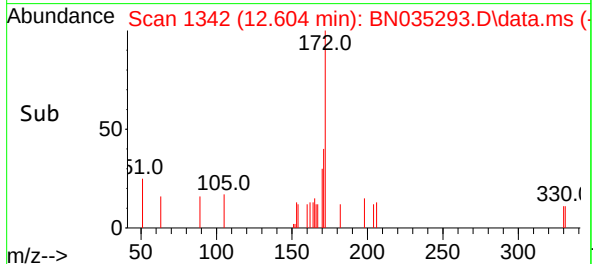
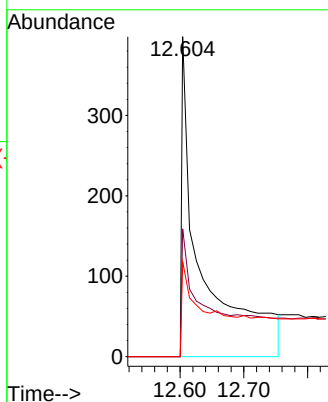
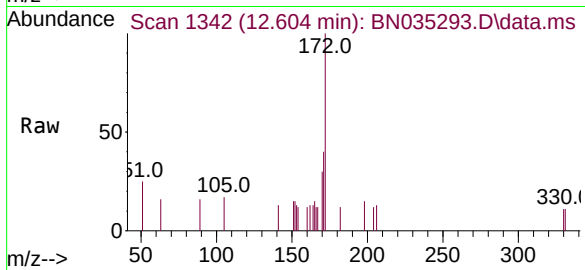
SSTDCCC0.4

Tgt Ion:172 Resp: 85  
Ion Ratio Lower Upper  
172 100  
171 39.9 36.6 55.0  
170 29.6 29.7 44.5

Manual Integrations

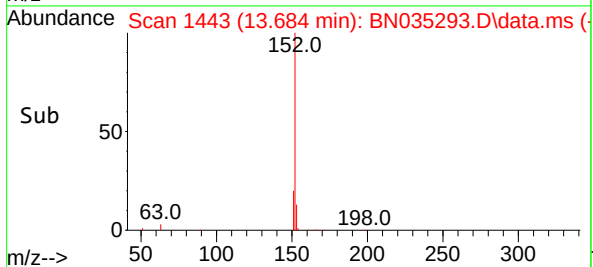
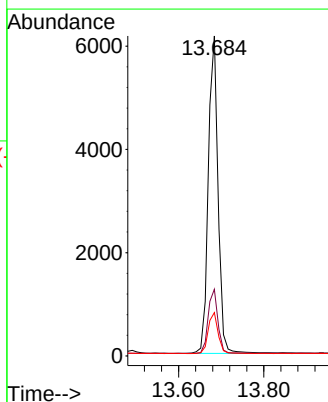
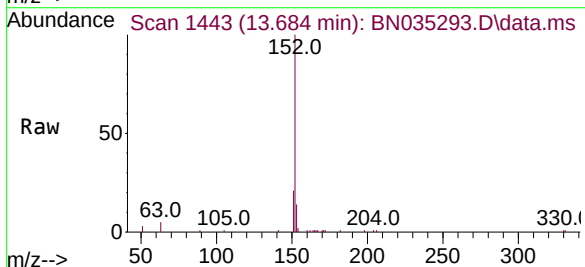
APPROVED

Reviewed By :Yogesh Patel 11/27/2024  
Supervised By :mohammad ahmed 11/27/2024

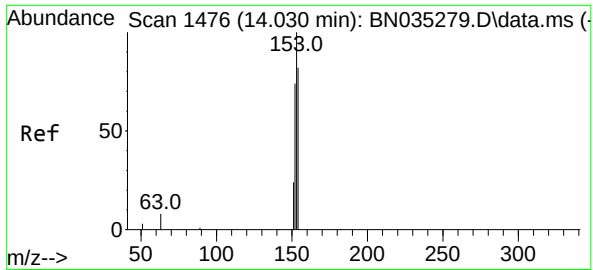


#16  
Acenaphthylene  
Concen: 0.329 ng  
RT: 13.684 min Scan# 1443  
Delta R.T. -0.004 min  
Lab File: BN035293.D  
Acq: 25 Nov 2024 23:02

Tgt Ion:152 Resp: 9720  
Ion Ratio Lower Upper  
152 100  
151 20.1 15.9 23.9  
153 13.1 10.2 15.4

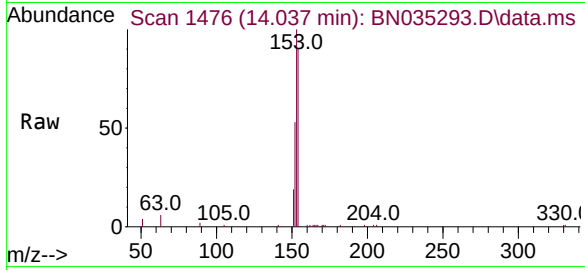






#17  
Acenaphthene  
Concen: 0.352 ng  
RT: 14.037 min Scan# 1476  
Delta R.T. 0.007 min  
Lab File: BN035293.D  
Acq: 25 Nov 2024 23:02

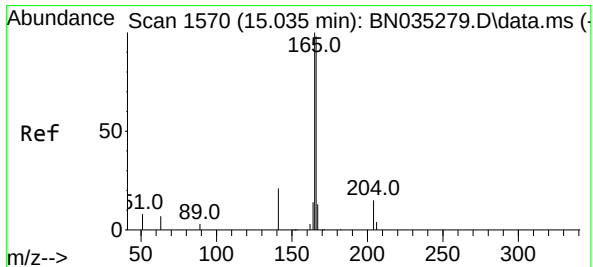
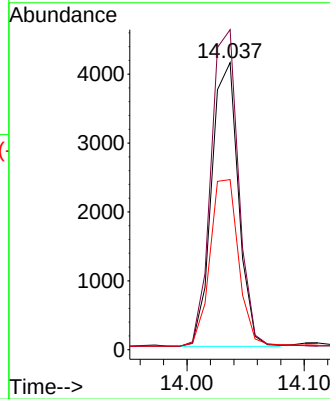
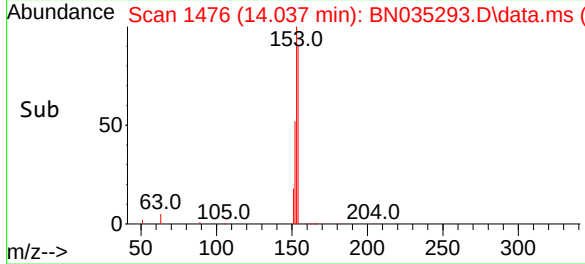
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDCCC0.4



Tgt Ion:154 Resp: 6539  
Ion Ratio Lower Upper  
154 100  
153 115.4 96.1 144.1  
152 63.2 72.2 108.2

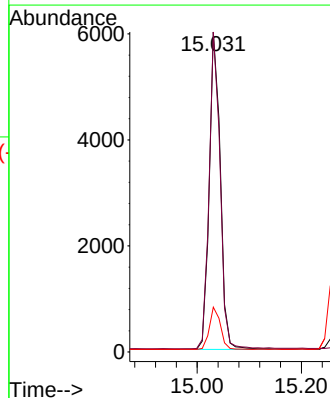
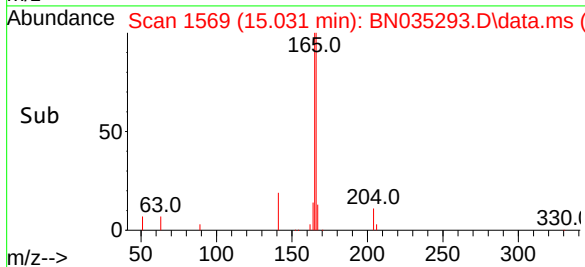
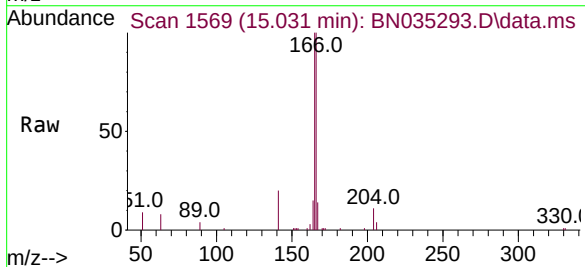
Manual Integrations  
**APPROVED**

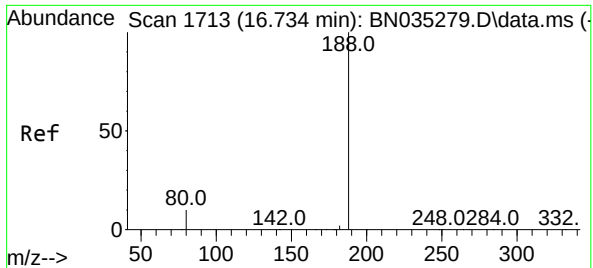
Reviewed By :Yogesh Patel 11/27/2024  
Supervised By :mohammad ahmed 11/27/2024



#18  
Fluorene  
Concen: 0.337 ng  
RT: 15.031 min Scan# 1569  
Delta R.T. -0.004 min  
Lab File: BN035293.D  
Acq: 25 Nov 2024 23:02

Tgt Ion:166 Resp: 8779  
Ion Ratio Lower Upper  
166 100  
165 98.8 81.2 121.8  
167 13.3 10.5 15.7





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 16.741 min Scan# 11

Delta R.T. 0.007 min

Lab File: BN035293.D

Acq: 25 Nov 2024 23:02

Instrument :

BNA\_N

ClientSampleId :

SSTDCCC0.4

Tgt Ion:188 Resp: 1256

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

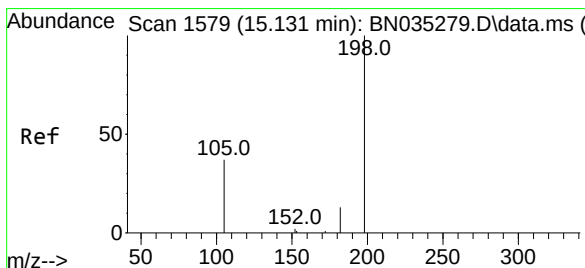
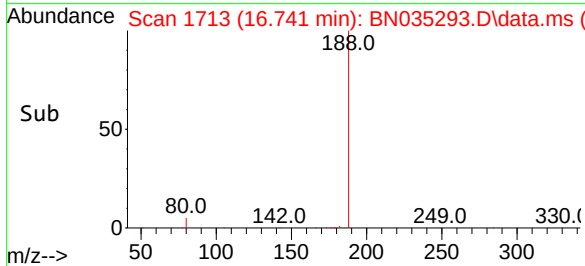
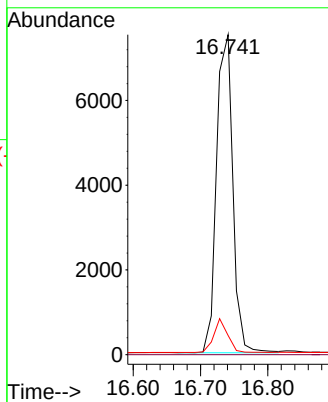
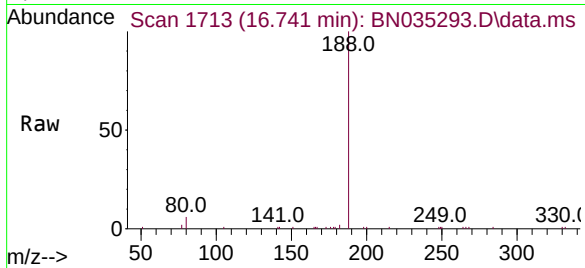
80 6.0 8.9 13.3

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 11/27/2024

Supervised By :mohammad ahmed 11/27/2024



#20

4,6-Dinitro-2-methylphenol

Concen: 0.392 ng

RT: 15.127 min Scan# 1578

Delta R.T. -0.004 min

Lab File: BN035293.D

Acq: 25 Nov 2024 23:02

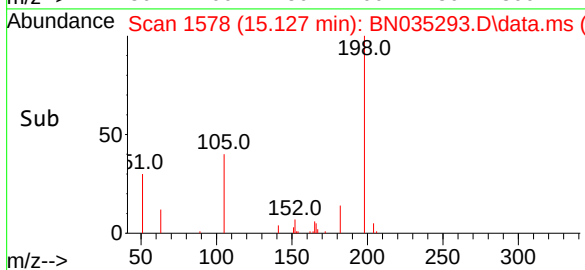
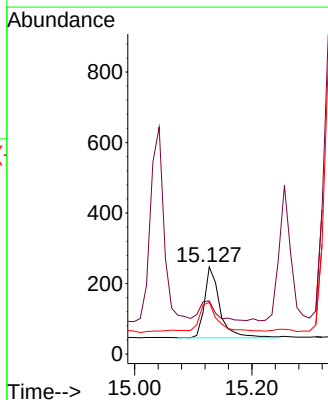
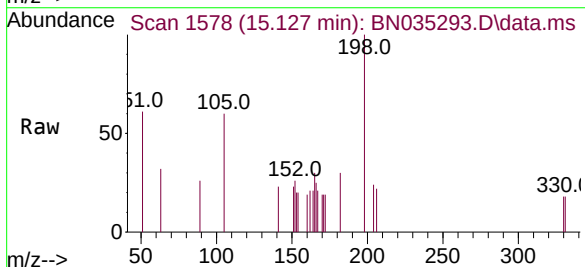
Tgt Ion:198 Resp: 368

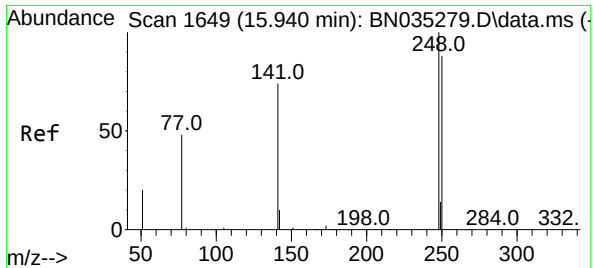
Ion Ratio Lower Upper

198 100

51 61.1 53.6 80.4

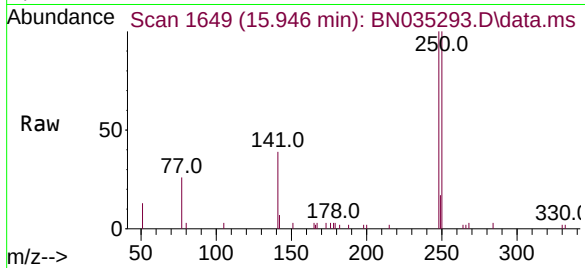
105 59.5 47.4 71.2





#21  
4-Bromophenyl-phenylether  
Concen: 0.387 ng  
RT: 15.946 min Scan# 1649  
Delta R.T. 0.006 min  
Lab File: BN035293.D  
Acq: 25 Nov 2024 23:02

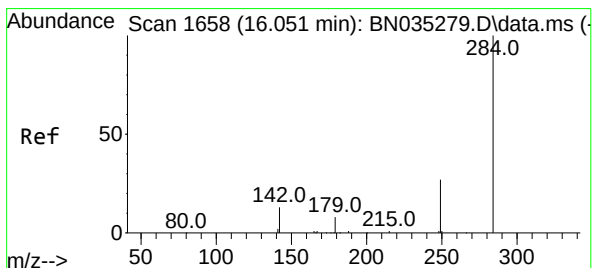
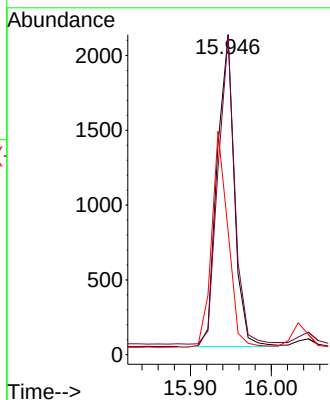
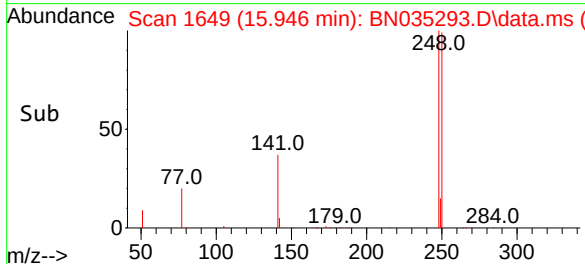
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDCCC0.4



Tgt Ion:248 Resp: 308  
Ion Ratio Lower Upper  
248 100  
250 99.6 74.8 112.2  
141 38.7 59.0 88.4

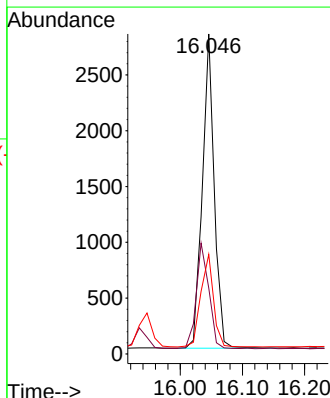
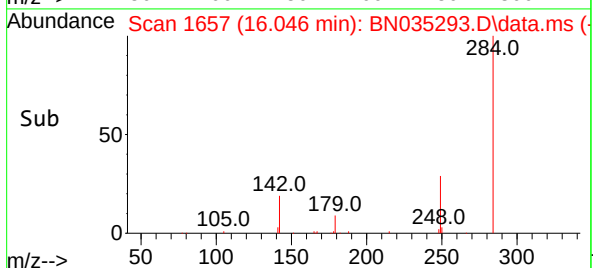
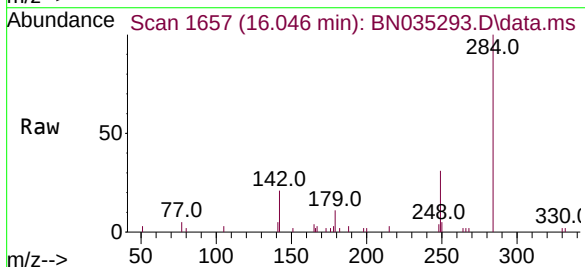
Manual Integrations  
**APPROVED**

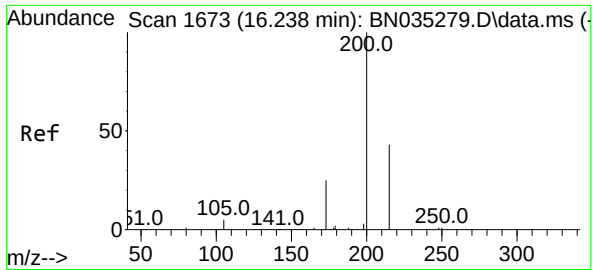
Reviewed By :Yogesh Patel 11/27/2024  
Supervised By :mohammad ahmed 11/27/2024



#22  
Hexachlorobenzene  
Concen: 0.330 ng  
RT: 16.046 min Scan# 1657  
Delta R.T. -0.006 min  
Lab File: BN035293.D  
Acq: 25 Nov 2024 23:02

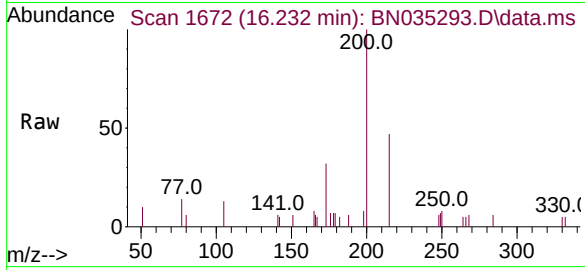
Tgt Ion:284 Resp: 3763  
Ion Ratio Lower Upper  
284 100  
142 35.3 28.7 43.1  
249 31.5 25.4 38.0





#23  
Atrazine  
Concen: 0.425 ng  
RT: 16.232 min Scan# 1672  
Delta R.T. -0.006 min  
Lab File: BN035293.D  
Acq: 25 Nov 2024 23:02

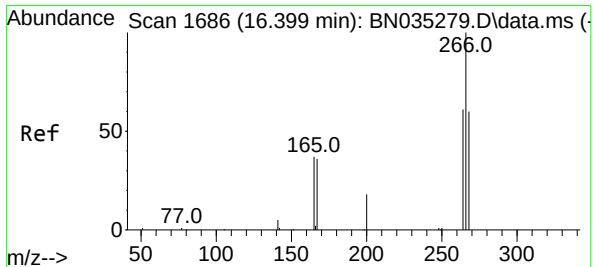
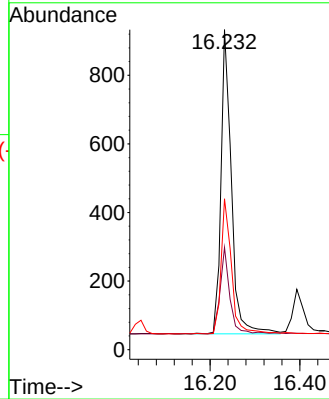
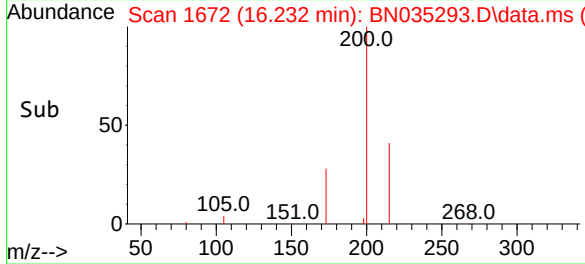
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDCCC0.4



Tgt Ion:200 Resp: 1428  
Ion Ratio Lower Upper  
200 100  
173 31.9 25.8 38.8  
215 47.2 38.6 58.0

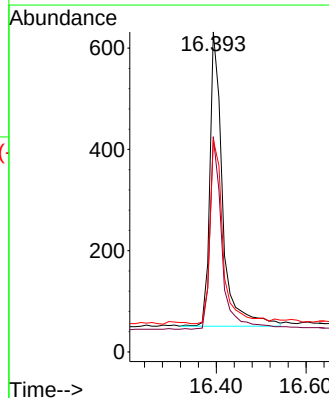
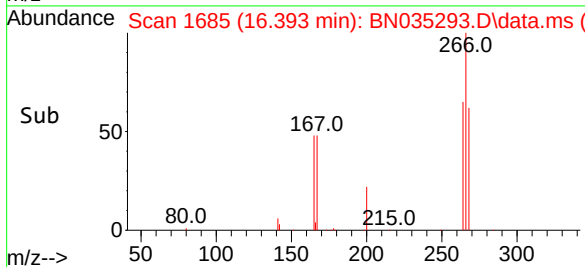
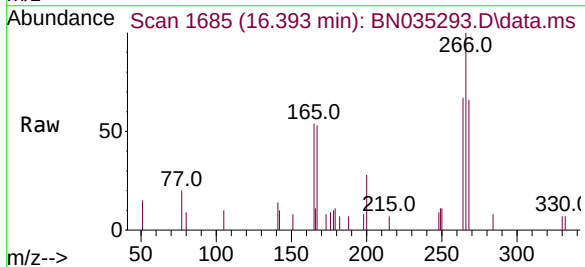
Manual Integrations  
APPROVED

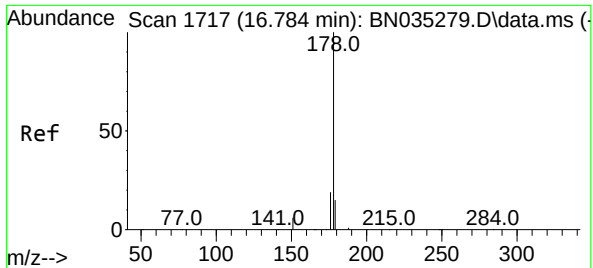
Reviewed By :Yogesh Patel 11/27/2024  
Supervised By :mohammad ahmed 11/27/2024



#24  
Pentachlorophenol  
Concen: 0.417 ng  
RT: 16.393 min Scan# 1685  
Delta R.T. -0.006 min  
Lab File: BN035293.D  
Acq: 25 Nov 2024 23:02

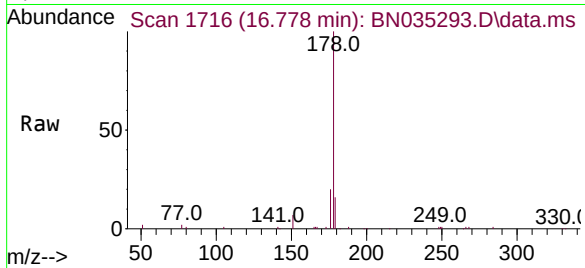
Tgt Ion:266 Resp: 1142  
Ion Ratio Lower Upper  
266 100  
264 62.2 49.3 73.9  
268 63.6 48.6 73.0





#25  
Phenanthrene  
Concen: 0.356 ng  
RT: 16.778 min Scan# 1716  
Delta R.T. -0.006 min  
Lab File: BN035293.D  
Acq: 25 Nov 2024 23:02

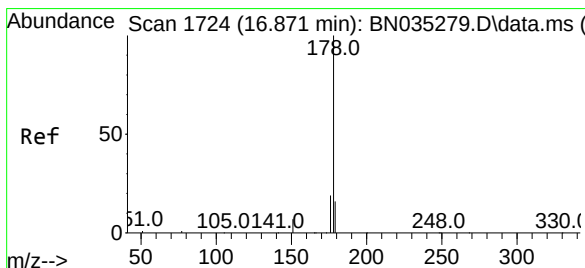
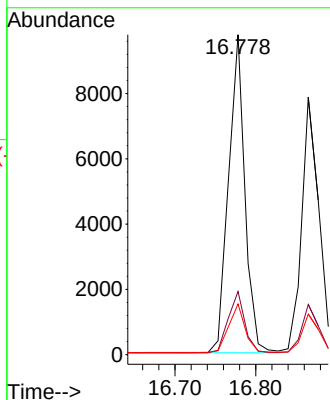
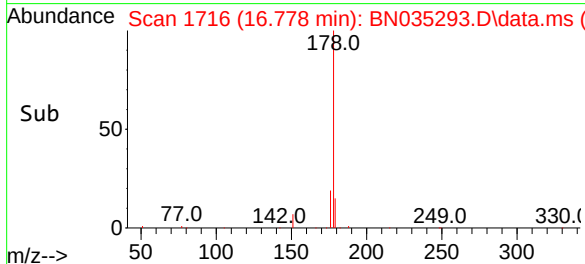
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDCCC0.4



Tgt Ion:178 Resp: 13720  
Ion Ratio Lower Upper  
178 100  
176 19.4 15.4 23.0  
179 15.5 12.6 18.8

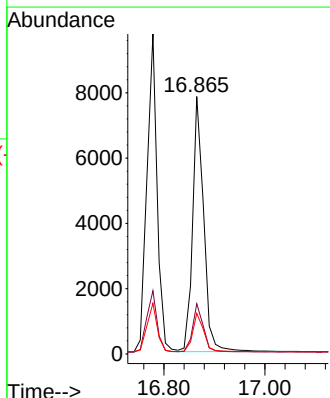
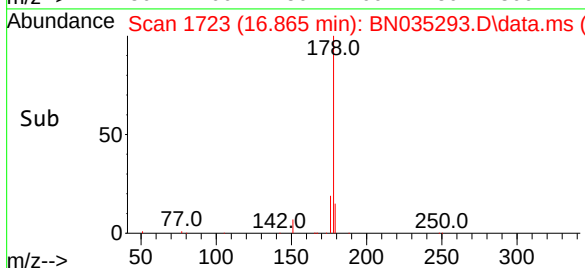
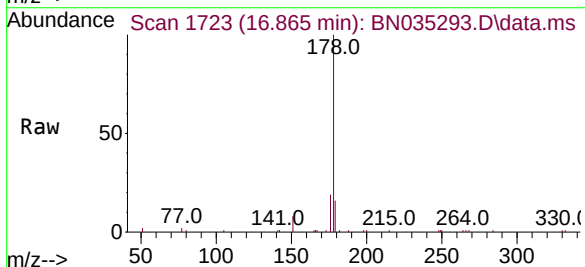
Manual Integrations  
**APPROVED**

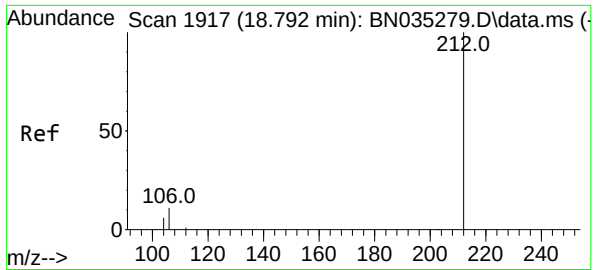
Reviewed By :Yogesh Patel 11/27/2024  
Supervised By :mohammad ahmed 11/27/2024



#26  
Anthracene  
Concen: 0.359 ng  
RT: 16.865 min Scan# 1723  
Delta R.T. -0.006 min  
Lab File: BN035293.D  
Acq: 25 Nov 2024 23:02

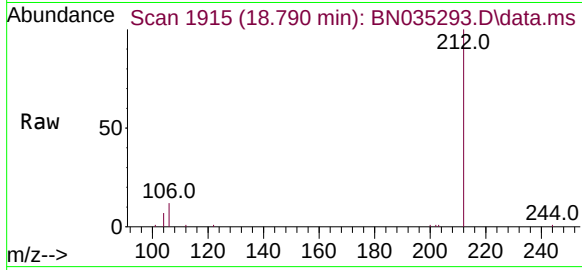
Tgt Ion:178 Resp: 11907  
Ion Ratio Lower Upper  
178 100  
176 18.7 15.0 22.4  
179 15.1 12.4 18.6





#27  
Fluoranthene-d10  
Concen: 0.345 ng  
RT: 18.790 min Scan# 1915  
Delta R.T. -0.002 min  
Lab File: BN035293.D  
Acq: 25 Nov 2024 23:02

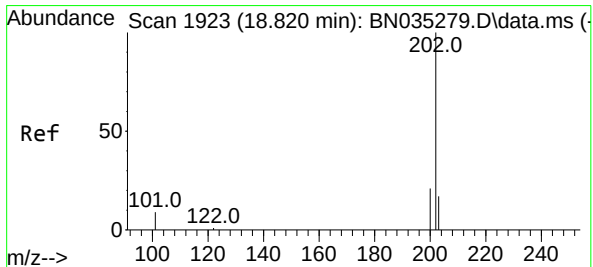
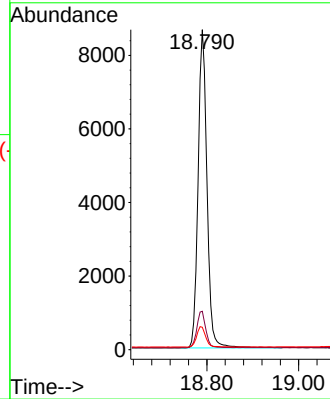
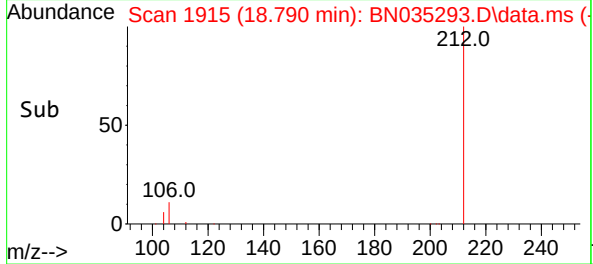
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDCCC0.4



Tgt Ion:212 Resp: 1160  
Ion Ratio Lower Upper  
212 100  
106 11.6 9.8 14.8  
104 6.6 5.6 8.4

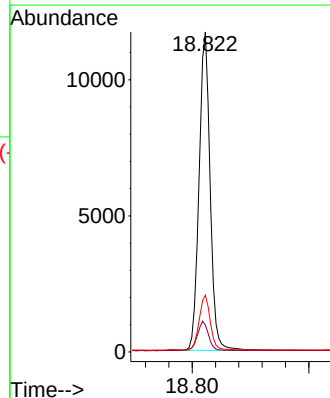
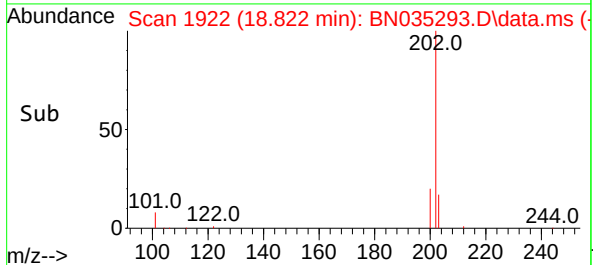
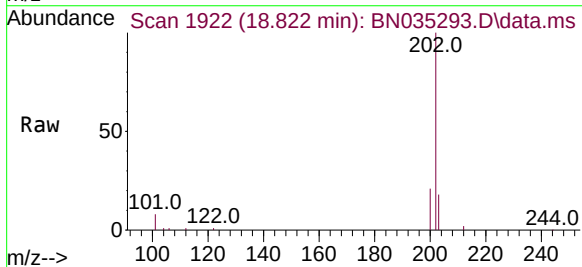
Manual Integrations  
**APPROVED**

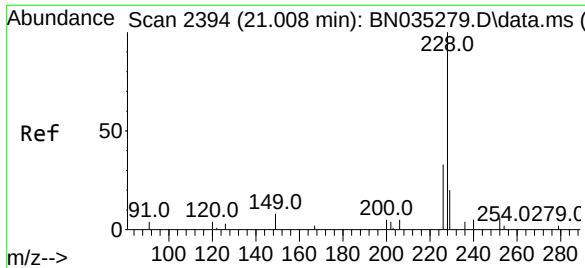
Reviewed By :Yogesh Patel 11/27/2024  
Supervised By :mohammad ahmed 11/27/2024



#28  
Fluoranthene  
Concen: 0.317 ng  
RT: 18.822 min Scan# 1922  
Delta R.T. 0.002 min  
Lab File: BN035293.D  
Acq: 25 Nov 2024 23:02

Tgt Ion:202 Resp: 15419  
Ion Ratio Lower Upper  
202 100  
101 9.4 7.6 11.4  
203 17.1 13.8 20.8





#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.006 min Scan# 21

Delta R.T. -0.002 min

Lab File: BN035293.D

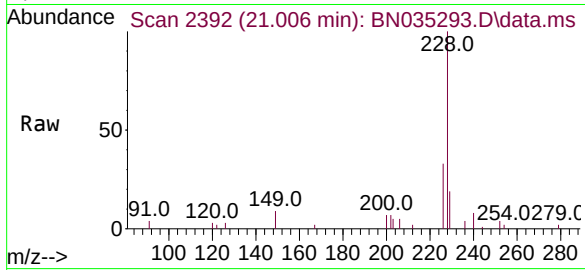
Acq: 25 Nov 2024 23:02

Instrument :

BNA\_N

ClientSampleId :

SSTDCCC0.4



Tgt Ion:240 Resp: 93

Ion Ratio Lower Upper

240 100

120 45.5 54.9 82.3

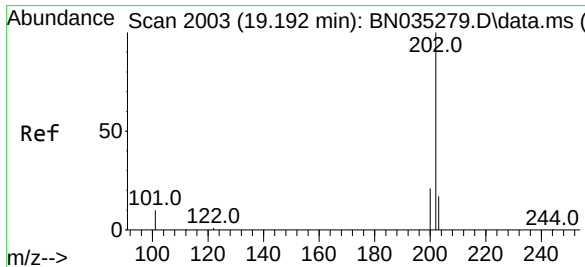
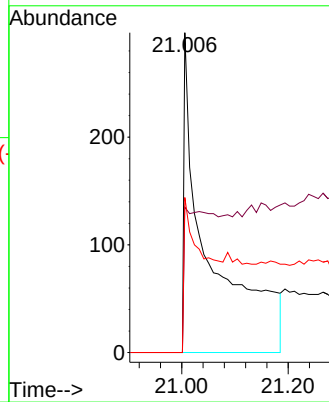
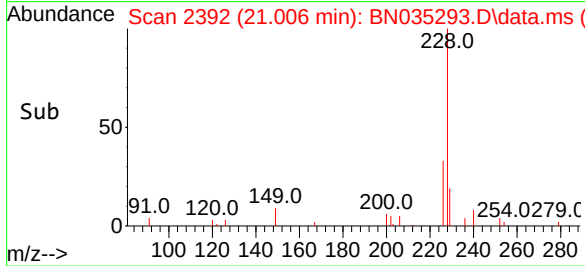
236 48.5 54.0 81.0

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 11/27/2024

Supervised By :mohammad ahmed 11/27/2024



#30

Pyrene

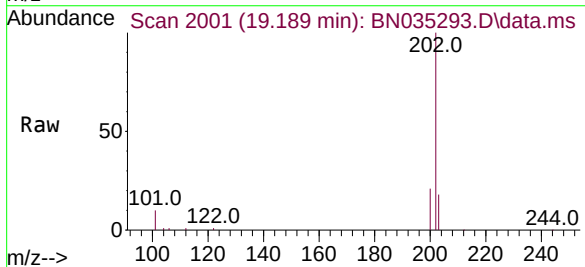
Concen: 0.441 ng

RT: 19.189 min Scan# 2001

Delta R.T. -0.003 min

Lab File: BN035293.D

Acq: 25 Nov 2024 23:02



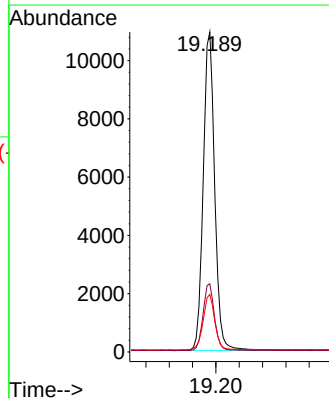
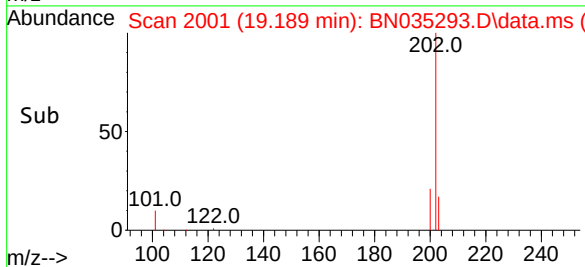
Tgt Ion:202 Resp: 14952

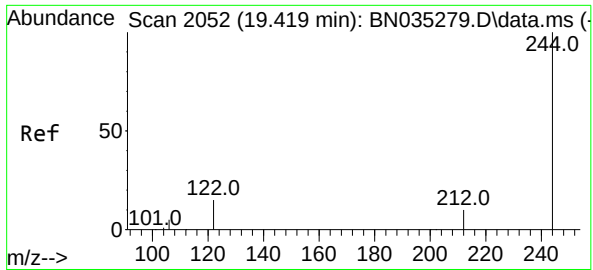
Ion Ratio Lower Upper

202 100

200 21.0 16.8 25.2

203 17.7 14.4 21.6





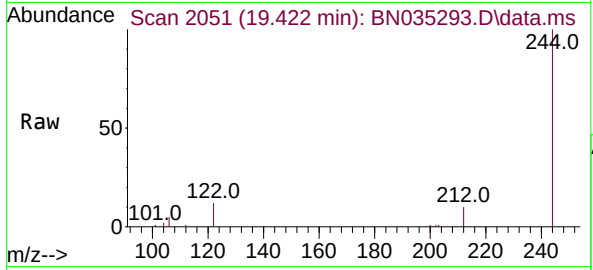
#31  
Terphenyl-d14  
Concen: 0.453 ng  
RT: 19.422 min Scan# 2051  
Delta R.T. 0.003 min  
Lab File: BN035293.D  
Acq: 25 Nov 2024 23:02

Instrument :

BNA\_N

ClientSampleId :

SSTDCCC0.4



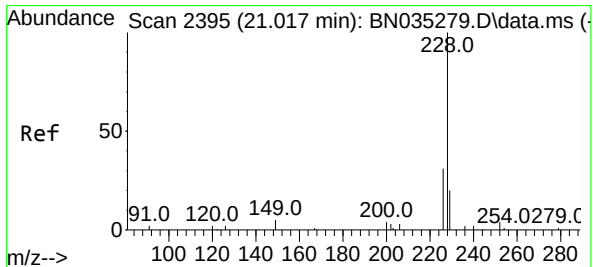
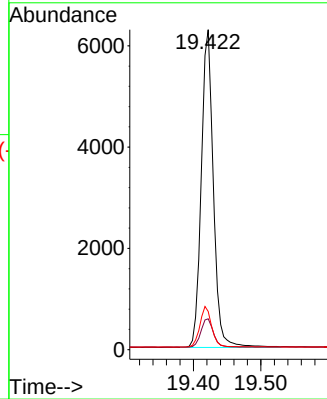
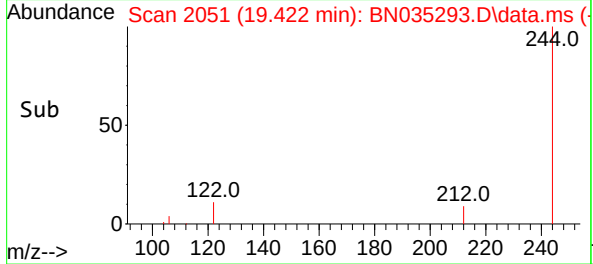
Tgt Ion:244 Resp: 7795  
Ion Ratio Lower Upper  
244 100  
212 9.6 9.4 14.0  
122 12.0 13.0 19.4

Manual Integrations

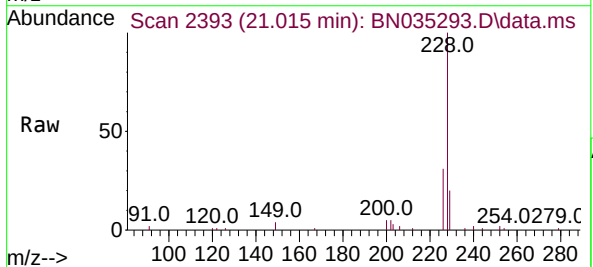
APPROVED

Reviewed By :Yogesh Patel 11/27/2024

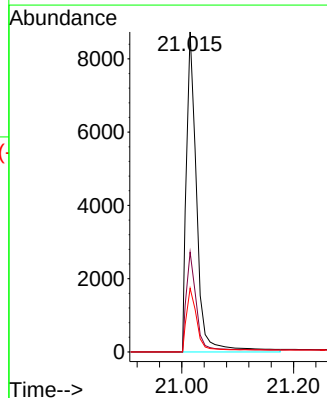
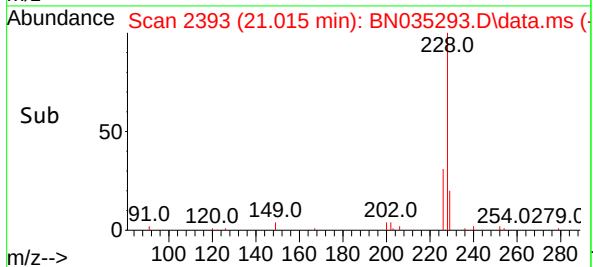
Supervised By :mohammad ahmed 11/27/2024



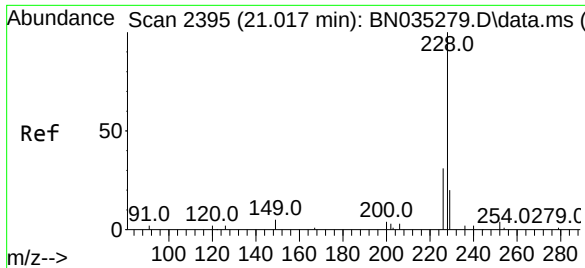
#32  
Benzo(a)anthracene  
Concen: 0.346 ng  
RT: 21.015 min Scan# 2393  
Delta R.T. -0.002 min  
Lab File: BN035293.D  
Acq: 25 Nov 2024 23:02



Tgt Ion:228 Resp: 11234  
Ion Ratio Lower Upper  
228 100  
226 31.2 24.7 37.1  
229 19.9 16.2 24.2







#33

Chrysene

Concen: 0.346 ng

RT: 21.015 min Scan# 21

Delta R.T. -0.002 min

Lab File: BN035293.D

Acq: 25 Nov 2024 23:02

Instrument :

BNA\_N

ClientSampleId :

SSTDCCC0.4

Tgt Ion:228 Resp: 11234

Ion Ratio Lower Upper

228 100

226 31.2 24.7 37.1

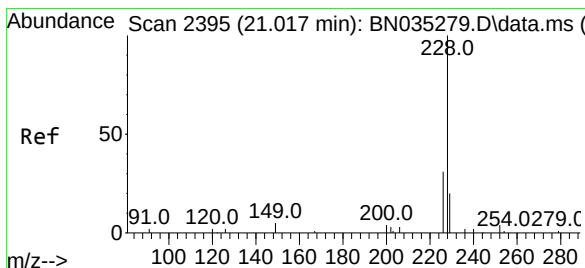
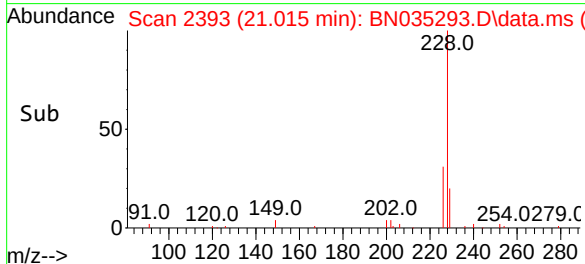
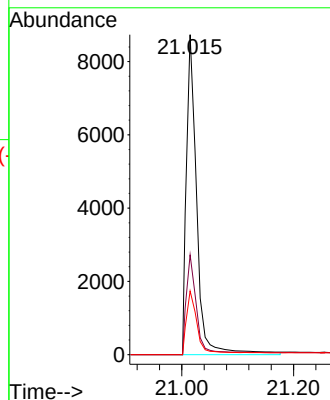
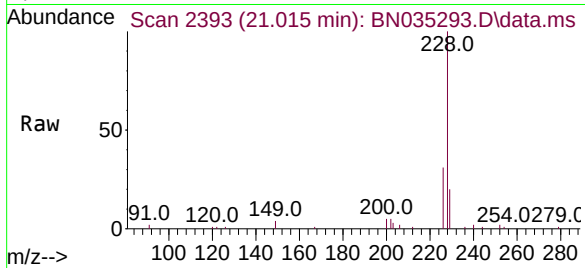
229 19.9 16.2 24.2

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 11/27/2024

Supervised By :mohammad ahmed 11/27/2024



#34

Bis(2-ethylhexyl)phthalate

Concen: 0.233 ng

RT: 21.006 min Scan# 2392

Delta R.T. -0.011 min

Lab File: BN035293.D

Acq: 25 Nov 2024 23:02

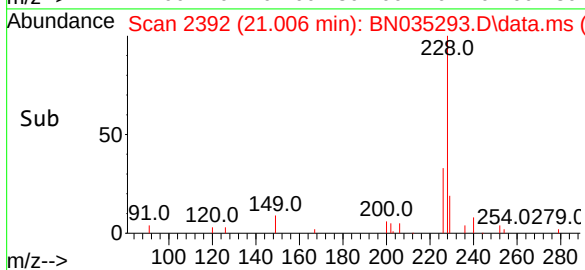
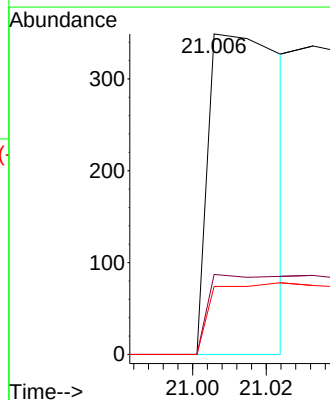
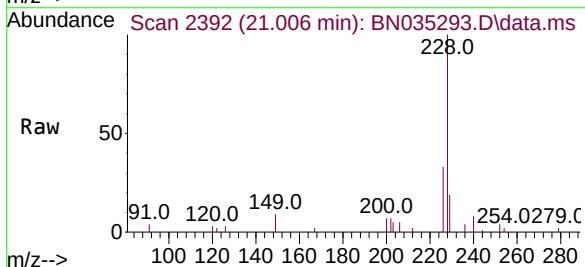
Tgt Ion:149 Resp: 416

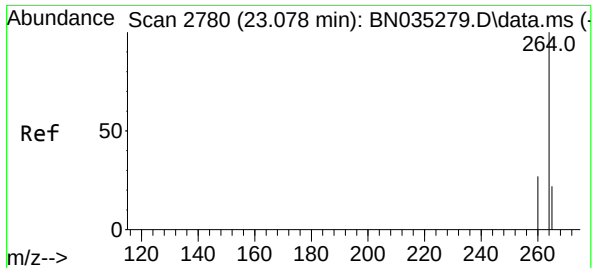
Ion Ratio Lower Upper

149 100

167 77.9 0.0 0.0#

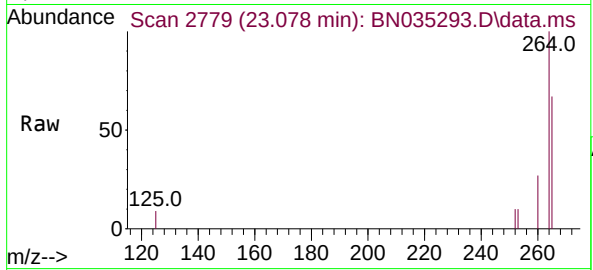
279 31.5 13.0 19.6#





#35  
Perylene-d12  
Concen: 0.400 ng  
RT: 23.078 min Scan# 2119  
Delta R.T. 0.000 min  
Lab File: BN035293.D  
Acq: 25 Nov 2024 23:02

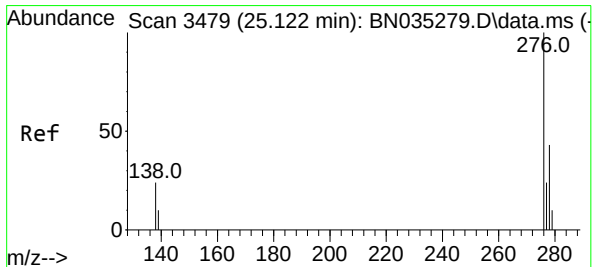
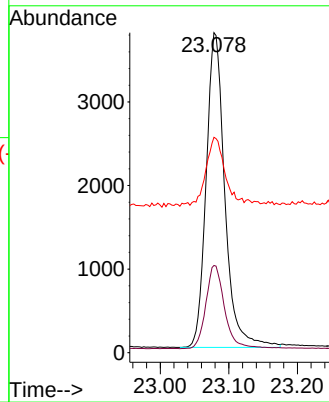
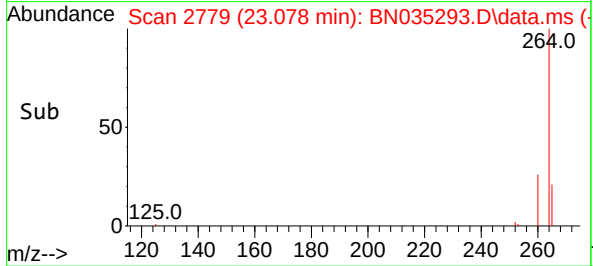
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDCCC0.4



Tgt Ion:264 Resp: 7119  
Ion Ratio Lower Upper  
264 100  
260 27.3 22.3 33.5  
265 67.3 68.6 103.0

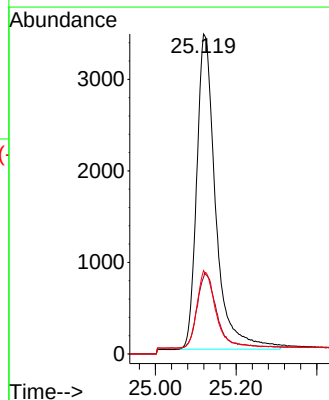
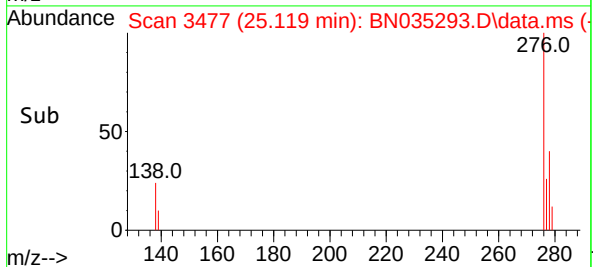
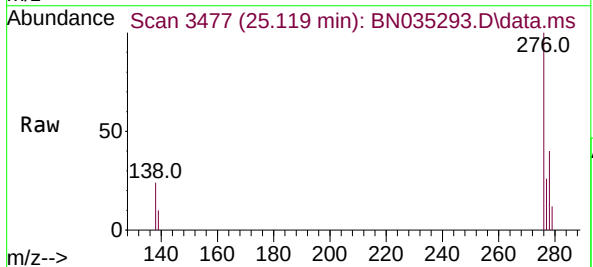
Manual Integrations  
APPROVED

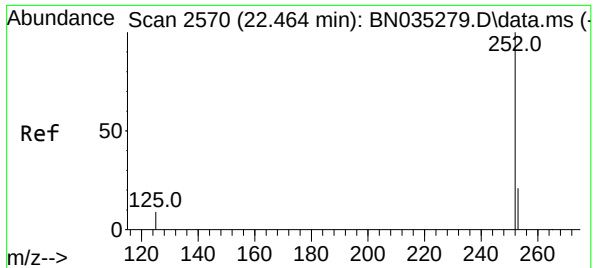
Reviewed By :Yogesh Patel 11/27/2024  
Supervised By :mohammad ahmed 11/27/2024



#36  
Indeno(1,2,3-cd)pyrene  
Concen: 0.385 ng  
RT: 25.119 min Scan# 3477  
Delta R.T. -0.002 min  
Lab File: BN035293.D  
Acq: 25 Nov 2024 23:02

Tgt Ion:276 Resp: 11225  
Ion Ratio Lower Upper  
276 100  
138 23.2 18.8 28.2  
277 23.8 18.2 27.4





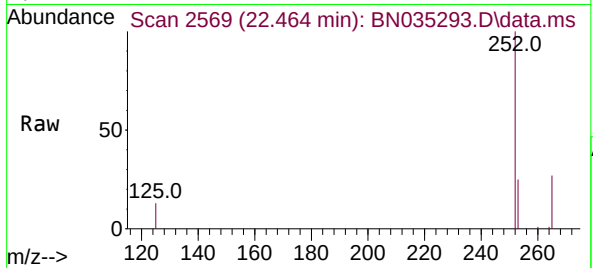
#37  
Benzo(b)fluoranthene  
Concen: 0.316 ng  
RT: 22.464 min Scan# 2570  
Delta R.T. 0.000 min  
Lab File: BN035293.D  
Acq: 25 Nov 2024 23:02

Instrument :

BNA\_N

ClientSampleId :

SSTDCCC0.4

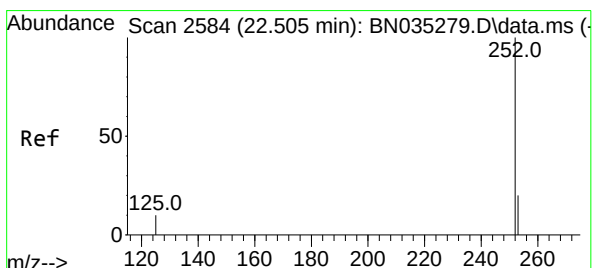
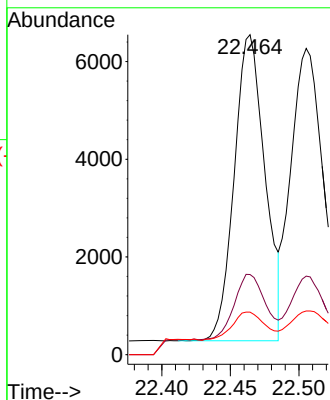
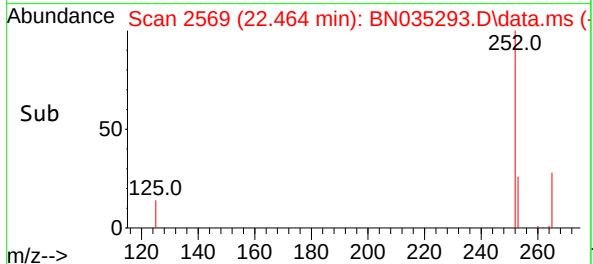


Tgt Ion:252 Resp: 976  
Ion Ratio Lower Upper  
252 100  
253 25.0 20.2 30.2  
125 13.3 12.0 18.0

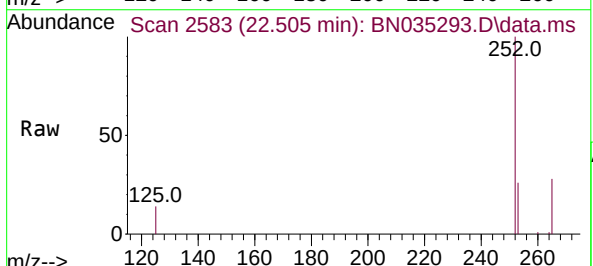
Manual Integrations

APPROVED

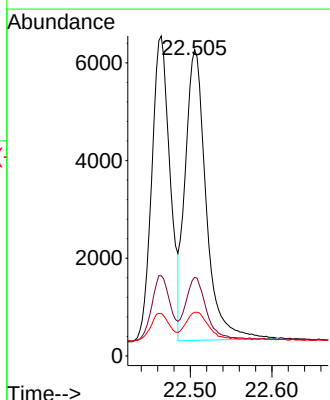
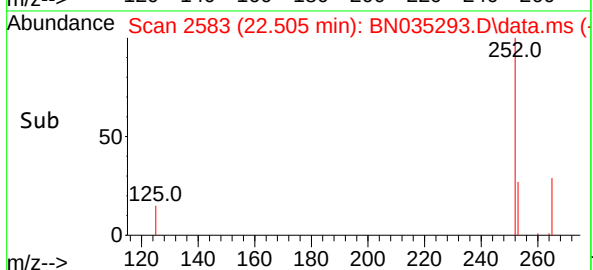
Reviewed By :Yogesh Patel 11/27/2024  
Supervised By :mohammad ahmed 11/27/2024

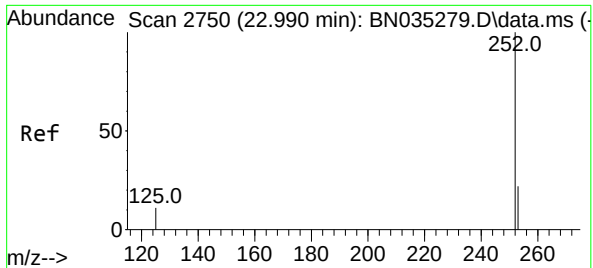


#38  
Benzo(k)fluoranthene  
Concen: 0.323 ng  
RT: 22.505 min Scan# 2583  
Delta R.T. 0.000 min  
Lab File: BN035293.D  
Acq: 25 Nov 2024 23:02



Tgt Ion:252 Resp: 10556  
Ion Ratio Lower Upper  
252 100  
253 25.7 20.1 30.1  
125 14.3 12.7 19.1





#39

Benzo(a)pyrene

Concen: 0.349 ng

RT: 22.991 min Scan# 21

Delta R.T. 0.000 min

Lab File: BN035293.D

Acq: 25 Nov 2024 23:02

Instrument :

BNA\_N

ClientSampleId :

SSTDCCC0.4

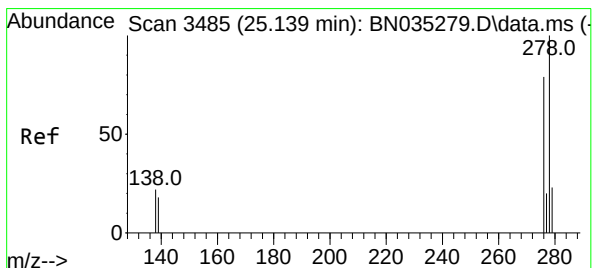
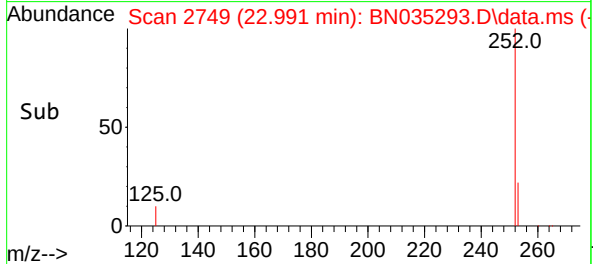
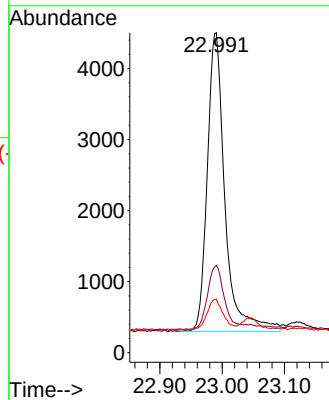
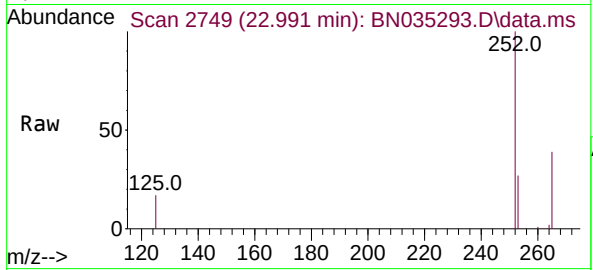
|           |       |       |      |
|-----------|-------|-------|------|
| Tgt Ion:  | 252   | Resp: | 825  |
| Ion Ratio | Lower | Upper |      |
| 252       | 100   |       |      |
| 253       | 27.3  | 22.3  | 33.5 |
| 125       | 16.7  | 15.3  | 22.9 |

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 11/27/2024

Supervised By :mohammad ahmed 11/27/2024



#40

Dibenzo(a,h)anthracene

Concen: 0.385 ng

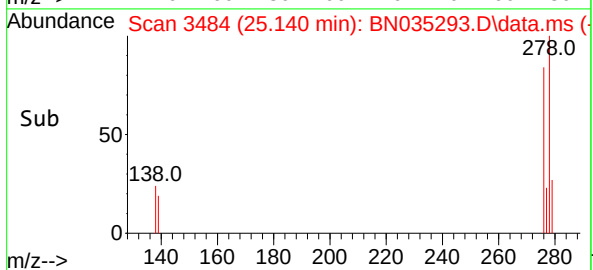
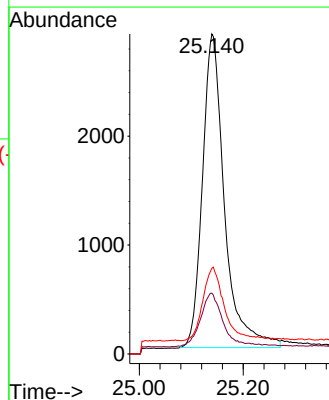
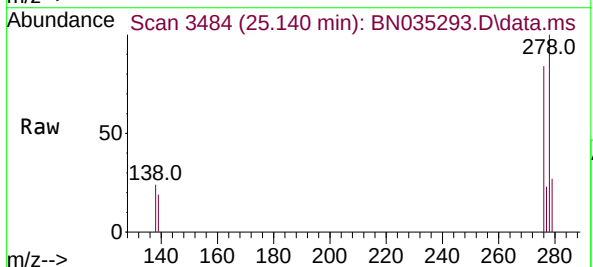
RT: 25.140 min Scan# 3484

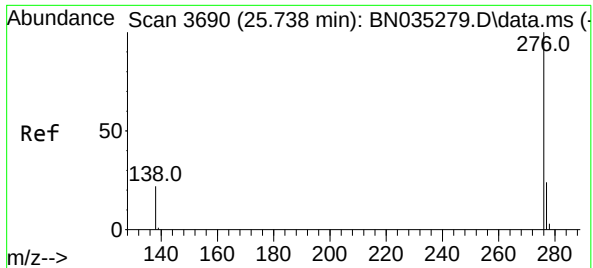
Delta R.T. 0.000 min

Lab File: BN035293.D

Acq: 25 Nov 2024 23:02

|           |       |       |      |
|-----------|-------|-------|------|
| Tgt Ion:  | 278   | Resp: | 8482 |
| Ion Ratio | Lower | Upper |      |
| 278       | 100   |       |      |
| 139       | 19.0  | 17.0  | 25.6 |
| 279       | 26.8  | 23.0  | 34.4 |





#41

Benzo(g,h,i)perylene

Concen: 0.377 ng

RT: 25.742 min Scan# 30

Delta R.T. 0.003 min

Lab File: BN035293.D

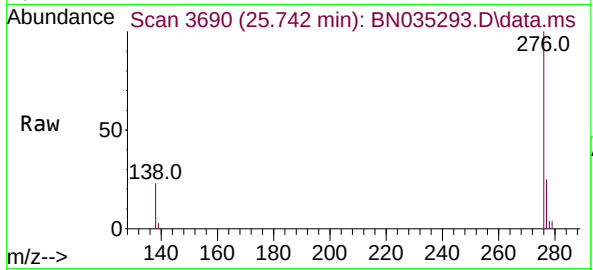
Acq: 25 Nov 2024 23:02

Instrument :

BNA\_N

ClientSampleId :

SSTDCCC0.4



Tgt Ion:276 Resp: 9609

Ion Ratio Lower Upper

276 100

277 25.2 21.1 31.7

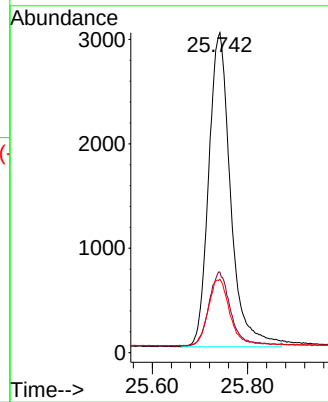
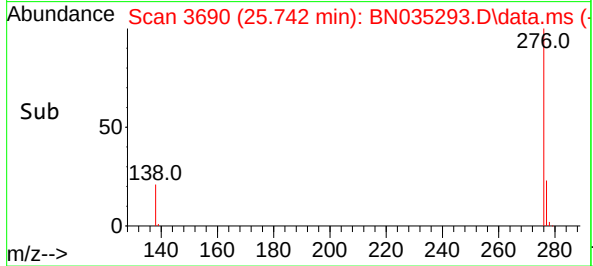
138 23.0 19.8 29.8

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 11/27/2024

Supervised By :mohammad ahmed 11/27/2024



Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN112524\  
 Data File : BN035293.D  
 Acq On : 25 Nov 2024 23:02  
 Operator : RC/JU  
 Sample : SSTDCCC0.4  
 Misc :  
 ALS Vial : 76 Sample Multiplier: 1

Instrument :  
 BNA\_N  
 LabSampleId :  
 SSTDCCC0.4

Quant Time: Nov 26 02:53:31 2024  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\8270-SIM-BN112524.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Tue Nov 26 02:36:08 2024  
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min  
 Max. RRF Dev : 25% Max. Rel. Area : 150%

|         | Compound                   | AvgRF  | CCRF   | %Dev   | Area% | Dev(min) |
|---------|----------------------------|--------|--------|--------|-------|----------|
| 1 I     | 1,4-Dichlorobenzene-d4     | 1.000  | 1.000  | 0.0    | 169#  | 0.00     |
| 2       | 1,4-Dioxane                | 0.288  | 0.361  | -25.3# | 213#  | 0.00     |
| 3       | n-Nitrosodimethylamine     | 0.298  | 0.294  | 1.3    | 175#  | 0.00     |
| 4 S     | 2-Fluorophenol             | 0.756  | 0.976  | -29.1# | 209#  | 0.00     |
| 5 S     | Phenol-d6                  | 1.056  | 1.259  | -19.2  | 193#  | 0.00     |
| 6       | bis(2-Chloroethyl)ether    | 0.889  | 0.969  | -9.0   | 183#  | 0.00     |
| 7 I     | Naphthalene-d8             | 1.000  | 1.000  | 0.0    | 174#  | 0.00     |
| 8 S     | Nitrobenzene-d5            | 0.324  | 0.198  | 38.9#  | 100   | 0.00     |
| 9       | Naphthalene                | 1.110  | 1.069  | 3.7    | 171#  | -0.01    |
| 10      | Hexachlorobutadiene        | 0.312  | 0.250  | 19.9   | 139   | -0.01    |
| 11 SURR | 2-Methylnaphthalene-d10    | 0.560  | 0.590  | -5.4   | 191#  | 0.00     |
| 12      | 2-Methylnaphthalene        | 0.726  | 0.729  | -0.4   | 187#  | 0.00     |
| 13 I    | Acenaphthene-d10           | 1.000  | 1.000  | 0.0    | 199#  | 0.00     |
| 14 S    | 2,4,6-Tribromophenol       | 0.204  | 0.212  | -3.9   | 234#  | 0.00     |
| 15 S    | 2-Fluorobiphenyl           | 0.221  | 0.145  | 34.4#  | 118   | 0.00     |
| 16      | Acenaphthylene             | 2.013  | 1.657  | 17.7   | 175#  | 0.00     |
| 17      | Acenaphthene               | 1.267  | 1.115  | 12.0   | 189#  | 0.00     |
| 18      | Fluorene                   | 1.777  | 1.497  | 15.8   | 182#  | 0.00     |
| 19 I    | Phenanthrene-d10           | 1.000  | 1.000  | 0.0    | 182#  | 0.00     |
| 20      | 4,6-Dinitro-2-methylphenol | 0.041  | 0.029  | 29.3#  | 158#  | 0.00     |
| 21      | 4-Bromophenyl-phenylether  | 0.254  | 0.245  | 3.5    | 190#  | 0.00     |
| 22      | Hexachlorobenzene          | 0.363  | 0.300  | 17.4   | 155#  | 0.00     |
| 23      | Atrazine                   | 0.107  | 0.114  | -6.5   | 207#  | 0.00     |
| 24      | Pentachlorophenol          | 0.087  | 0.091  | -4.6   | 210#  | 0.00     |
| 25      | Phenanthrene               | 1.229  | 1.093  | 11.1   | 176#  | 0.00     |
| 26      | Anthracene                 | 1.055  | 0.948  | 10.1   | 190#  | 0.00     |
| 27 SURR | Fluoranthene-d10           | 1.070  | 0.923  | 13.7   | 174#  | 0.00     |
| 28      | Fluoranthene               | 1.550  | 1.227  | 20.8   | 167#  | 0.00     |
| 29 I    | Chrysene-d12               | 1.000  | 1.000  | 0.0    | 159#  | 0.00     |
| 30      | Pyrene                     | 14.551 | 16.043 | -10.3  | 167#  | 0.00     |
| 31 S    | Terphenyl-d14              | 7.392  | 8.364  | -13.1  | 183#  | 0.00     |
| 32      | Benzo(a)anthracene         | 13.920 | 12.054 | 13.4   | 139   | 0.00     |
| 33      | Chrysene                   | 13.920 | 12.054 | 13.4   | 139   | 0.00     |
| 34      | Bis(2-ethylhexyl)phthalate | 0.765  | 0.446  | 41.7#  | 78    | -0.01    |
| 35 I    | Perylene-d12               | 1.000  | 1.000  | 0.0    | 152#  | 0.00     |
| 36      | Indeno(1,2,3-cd)pyrene     | 1.638  | 1.577  | 3.7    | 157#  | 0.00     |
| 37      | Benzo(b)fluoranthene       | 1.738  | 1.371  | 21.1   | 143   | 0.00     |
| 38      | Benzo(k)fluoranthene       | 1.839  | 1.483  | 19.4   | 138   | 0.00     |
| 39 C    | Benzo(a)pyrene             | 1.329  | 1.160  | 12.7   | 154#  | 0.00     |
| 40      | Dibenzo(a,h)anthracene     | 1.238  | 1.191  | 3.8    | 163#  | 0.00     |
| 41      | Benzo(g,h,i)perylene       | 1.432  | 1.350  | 5.7    | 165#  | 0.00     |

(#) = Out of Range

SPCC's out = 0 CCC's out = 0

Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN112524\  
 Data File : BN035293.D  
 Acq On : 25 Nov 2024 23:02  
 Operator : RC/JU  
 Sample : SSTDCCC0.4  
 Misc :  
 ALS Vial : 76 Sample Multiplier: 1

Instrument :  
 BNA\_N  
 LabSampleId :  
 SSTDCCC0.4

Quant Time: Nov 26 02:53:31 2024  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\8270-SIM-BN112524.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Tue Nov 26 02:36:08 2024  
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min  
 Max. RRF Dev : 25% Max. Rel. Area : 150%

|         | Compound                   | Amount | Calc. | %Dev   | Area% | Dev(min) |
|---------|----------------------------|--------|-------|--------|-------|----------|
| 1 I     | 1,4-Dichlorobenzene-d4     | 0.400  | 0.400 | 0.0    | 169   | 0.00     |
| 2       | 1,4-Dioxane                | 0.400  | 0.502 | -25.5# | 213   | 0.00     |
| 3       | n-Nitrosodimethylamine     | 0.400  | 0.395 | 1.3    | 175   | 0.00     |
| 4 S     | 2-Fluorophenol             | 0.400  | 0.516 | -29.0# | 209   | 0.00     |
| 5 S     | Phenol-d6                  | 0.400  | 0.477 | -19.2  | 193   | 0.00     |
| 6       | bis(2-Chloroethyl)ether    | 0.400  | 0.436 | -9.0   | 183   | 0.00     |
| 7 I     | Naphthalene-d8             | 0.400  | 0.400 | 0.0    | 174   | 0.00     |
| 8 S     | Nitrobenzene-d5            | 0.400  | 0.244 | 39.0#  | 100   | 0.00     |
| 9       | Naphthalene                | 0.400  | 0.385 | 3.8    | 171   | -0.01    |
| 10      | Hexachlorobutadiene        | 0.400  | 0.321 | 19.8   | 139   | -0.01    |
| 11 SURR | 2-Methylnaphthalene-d10    | 0.400  | 0.422 | -5.5   | 191   | 0.00     |
| 12      | 2-Methylnaphthalene        | 0.400  | 0.402 | -0.5   | 187   | 0.00     |
| 13 I    | Acenaphthene-d10           | 0.400  | 0.400 | 0.0    | 199   | 0.00     |
| 14 S    | 2,4,6-Tribromophenol       | 0.400  | 0.416 | -4.0   | 234   | 0.00     |
| 15 S    | 2-Fluorobiphenyl           | 0.400  | 0.263 | 34.3#  | 118   | 0.00     |
| 16      | Acenaphthylene             | 0.400  | 0.329 | 17.8   | 175   | 0.00     |
| 17      | Acenaphthene               | 0.400  | 0.352 | 12.0   | 189   | 0.00     |
| 18      | Fluorene                   | 0.400  | 0.337 | 15.8   | 182   | 0.00     |
| 19 I    | Phenanthrene-d10           | 0.400  | 0.400 | 0.0    | 182   | 0.00     |
| 20      | 4,6-Dinitro-2-methylphenol | 0.400  | 0.392 | 2.0    | 158   | 0.00     |
| 21      | 4-Bromophenyl-phenylether  | 0.400  | 0.387 | 3.3    | 190   | 0.00     |
| 22      | Hexachlorobenzene          | 0.400  | 0.330 | 17.5   | 155   | 0.00     |
| 23      | Atrazine                   | 0.400  | 0.425 | -6.2   | 207   | 0.00     |
| 24      | Pentachlorophenol          | 0.400  | 0.417 | -4.2   | 210   | 0.00     |
| 25      | Phenanthrene               | 0.400  | 0.356 | 11.0   | 176   | 0.00     |
| 26      | Anthracene                 | 0.400  | 0.359 | 10.3   | 190   | 0.00     |
| 27 SURR | Fluoranthene-d10           | 0.400  | 0.345 | 13.8   | 174   | 0.00     |
| 28      | Fluoranthene               | 0.400  | 0.317 | 20.8   | 167   | 0.00     |
| 29 I    | Chrysene-d12               | 0.400  | 0.400 | 0.0    | 159   | 0.00     |
| 30      | Pyrene                     | 0.400  | 0.441 | -10.2  | 167   | 0.00     |
| 31 S    | Terphenyl-d14              | 0.400  | 0.453 | -13.2  | 183   | 0.00     |
| 32      | Benzo(a)anthracene         | 0.400  | 0.346 | 13.5   | 139   | 0.00     |
| 33      | Chrysene                   | 0.400  | 0.346 | 13.5   | 139   | 0.00     |
| 34      | Bis(2-ethylhexyl)phthalate | 0.400  | 0.233 | 41.8#  | 78    | -0.01    |
| 35 I    | Perylene-d12               | 0.400  | 0.400 | 0.0    | 152   | 0.00     |
| 36      | Indeno(1,2,3-cd)pyrene     | 0.400  | 0.385 | 3.8    | 157   | 0.00     |
| 37      | Benzo(b)fluoranthene       | 0.400  | 0.316 | 21.0   | 143   | 0.00     |
| 38      | Benzo(k)fluoranthene       | 0.400  | 0.323 | 19.3   | 138   | 0.00     |
| 39 C    | Benzo(a)pyrene             | 0.400  | 0.349 | 12.8   | 154   | 0.00     |
| 40      | Dibenzo(a,h)anthracene     | 0.400  | 0.385 | 3.8    | 163   | 0.00     |
| 41      | Benzo(g,h,i)perylene       | 0.400  | 0.377 | 5.8    | 165   | 0.00     |

(#) = Out of Range

SPCC's out = 0 CCC's out = 0



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

7C

## SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: TETR06

Lab Code: CHEM Case No.: P4959 SAS No.: P4959 SDG No.: P4959

Instrument ID: BNA\_N Calibration Date/Time: 11/26/2024 03:14

Lab File ID: BN035300.D Init. Calib. Date(s): 11/25/2024 11/25/2024

EPA Sample No.: SSTDCCC0.4EC Init. Calib. Time(s): 10:16 13:52

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

| COMPOUND                | RRF   | RRF0.4 | MIN<br>RRF | %D    | MAX%D |
|-------------------------|-------|--------|------------|-------|-------|
| 2-Methylnaphthalene-d10 | 0.560 | 0.555  |            | -0.9  | 50.0  |
| Fluoranthene-d10        | 1.070 | 0.944  |            | -11.8 | 50.0  |
| 2-Fluorophenol          | 0.756 | 1.011  |            | 33.7  | 50.0  |
| Phenol-d6               | 1.056 | 1.202  |            | 13.8  | 50.0  |
| Nitrobenzene-d5         | 0.324 | 0.212  |            | -34.6 | 50.0  |
| 2-Fluorobiphenyl        | 0.221 | 0.171  |            | -22.6 | 50.0  |
| 2,4,6-Tribromophenol    | 0.204 | 0.208  |            | 2.0   | 50.0  |
| Terphenyl-d14           | 7.392 | 6.672  |            | -9.7  | 50.0  |
| 1,4-Dioxane             | 0.288 | 0.391  |            | 35.8  | 50.0  |

All other compounds must meet a minimum RRF of 0.010.



Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN112524\  
 Data File : BN035300.D  
 Acq On : 26 Nov 2024 03:14  
 Operator : RC/JU  
 Sample : SSTDCCC0.4  
 Misc :  
 ALS Vial : 76 Sample Multiplier: 1

Instrument :  
 BNA\_N  
 ClientSampleId :  
 SSTDCCC0.4EC

Manual Integrations  
 APPROVED

Reviewed By :Yogesh Patel 11/27/2024  
 Supervised By :mohammad ahmed 11/27/2024

Quant Time: Nov 26 04:38:57 2024  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\8270-SIM-BN112524.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Tue Nov 26 02:36:08 2024  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc  | Units | Dev(Min) |
|-------------------------------|--------|------|----------|-------|-------|----------|
| -----                         |        |      |          |       |       |          |
| Internal Standards            |        |      |          |       |       |          |
| 1) 1,4-Dichlorobenzene-d4     | 7.315  | 152  | 3805     | 0.400 | ng    | 0.00     |
| 7) Naphthalene-d8             | 10.063 | 136  | 8746     | 0.400 | ng    | # 0.00   |
| 13) Acenaphthene-d10          | 13.973 | 164  | 4650     | 0.400 | ng    | # 0.00   |
| 19) Phenanthrene-d10          | 16.741 | 188  | 8944     | 0.400 | ng    | # 0.00   |
| 29) Chrysene-d12              | 21.006 | 240  | 871      | 0.400 | ng    | # 0.00   |
| 35) Perylene-d12              | 23.075 | 264  | 8001     | 0.400 | ng    | # 0.00   |
| System Monitoring Compounds   |        |      |          |       |       |          |
| 4) 2-Fluorophenol             | 4.968  | 112  | 3847     | 0.535 | ng    | 0.00     |
| 5) Phenol-d6                  | 6.513  | 99   | 4573     | 0.455 | ng    | 0.00     |
| 8) Nitrobenzene-d5            | 8.450  | 82   | 1856m    | 0.262 | ng    | 0.00     |
| 11) 2-Methylnaphthalene-d10   | 11.663 | 152  | 4853     | 0.396 | ng    | 0.00     |
| 14) 2,4,6-Tribromophenol      | 15.480 | 330  | 969      | 0.408 | ng    | 0.00     |
| 15) 2-Fluorobiphenyl          | 12.604 | 172  | 795      | 0.310 | ng    | 0.00     |
| 27) Fluoranthene-d10          | 18.790 | 212  | 8444     | 0.353 | ng    | 0.00     |
| 31) Terphenyl-d14             | 19.422 | 244  | 5811     | 0.361 | ng    | 0.00     |
| Target Compounds              |        |      |          |       |       |          |
|                               |        |      |          |       |       | Qvalue   |
| 2) 1,4-Dioxane                | 3.003  | 88   | 1488     | 0.544 | ng    | # 71     |
| 3) n-Nitrosodimethylamine     | 3.299  | 42   | 1097     | 0.387 | ng    | # 64     |
| 6) bis(2-Chloroethyl)ether    | 6.766  | 93   | 3676     | 0.435 | ng    | 98       |
| 9) Naphthalene                | 10.105 | 128  | 9278     | 0.382 | ng    | 99       |
| 10) Hexachlorobutadiene       | 10.404 | 225  | 2190     | 0.321 | ng    | # 99     |
| 12) 2-Methylnaphthalene       | 11.738 | 142  | 5885     | 0.371 | ng    | 99       |
| 16) Acenaphthylene            | 13.684 | 152  | 7671     | 0.328 | ng    | 100      |
| 17) Acenaphthene              | 14.037 | 154  | 5129     | 0.348 | ng    | # 85     |
| 18) Fluorene                  | 15.031 | 166  | 6559     | 0.318 | ng    | 97       |
| 20) 4,6-Dinitro-2-methylph... | 15.127 | 198  | 319      | 0.436 | ng    | 93       |
| 21) 4-Bromophenyl-phenylether | 15.946 | 248  | 2233     | 0.394 | ng    | # 78     |
| 22) Hexachlorobenzene         | 16.046 | 284  | 2720     | 0.335 | ng    | 98       |
| 23) Atrazine                  | 16.232 | 200  | 1031     | 0.431 | ng    | 98       |
| 24) Pentachlorophenol         | 16.393 | 266  | 878      | 0.450 | ng    | 98       |
| 25) Phenanthrene              | 16.778 | 178  | 9774     | 0.356 | ng    | 100      |
| 26) Anthracene                | 16.865 | 178  | 8425     | 0.357 | ng    | 100      |
| 28) Fluoranthene              | 18.822 | 202  | 11052    | 0.319 | ng    | 99       |
| 30) Pyrene                    | 19.189 | 202  | 11118    | 0.351 | ng    | 99       |
| 32) Benzo(a)anthracene        | 21.015 | 228  | 10362    | 0.342 | ng    | 99       |
| 33) Chrysene                  | 21.015 | 228  | 10362    | 0.342 | ng    | 99       |
| 34) Bis(2-ethylhexyl)phtha... | 21.015 | 149  | 596      | 0.358 | ng    | # 98     |
| 36) Indeno(1,2,3-cd)pyrene    | 25.122 | 276  | 12330    | 0.376 | ng    | 99       |
| 37) Benzo(b)fluoranthene      | 22.461 | 252  | 10486    | 0.302 | ng    | 98       |
| 38) Benzo(k)fluoranthene      | 22.502 | 252  | 11527    | 0.313 | ng    | 98       |
| 39) Benzo(a)pyrene            | 22.988 | 252  | 8958     | 0.337 | ng    | 96       |
| 40) Dibenzo(a,h)anthracene    | 25.137 | 278  | 9558     | 0.386 | ng    | 95       |
| 41) Benzo(g,h,i)perylene      | 25.736 | 276  | 10647    | 0.372 | ng    | 97       |
| -----                         |        |      |          |       |       |          |

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

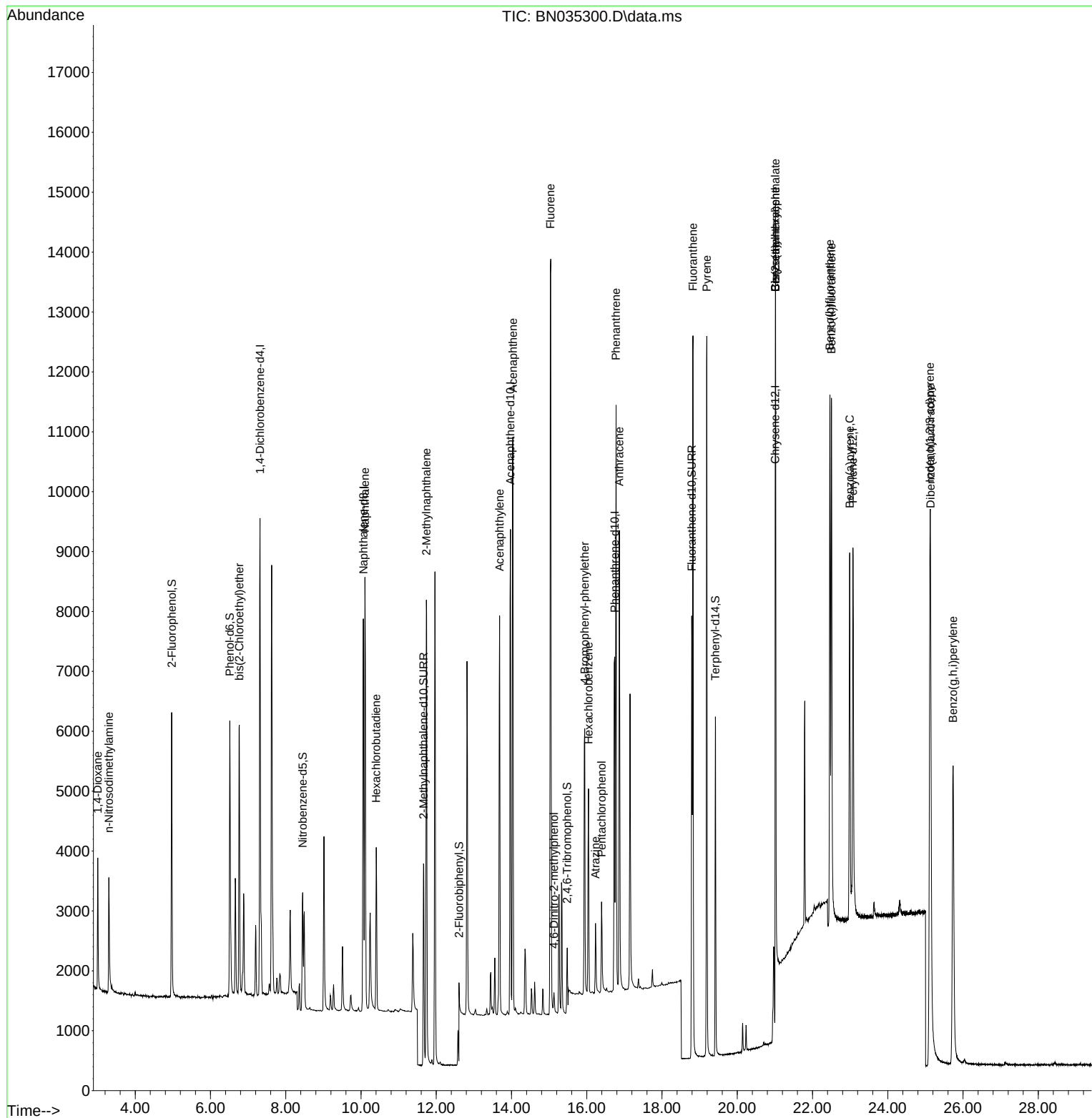
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Data File : BN035300.D  
Acq On : 26 Nov 2024 03:14  
Operator : RC/JU  
Sample : SSTDCCC0.4  
Misc :  
ALS Vial : 76 Sample Multiplier: 1

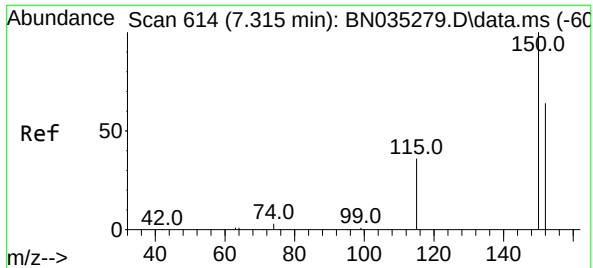
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDCCC0.4EC

Manual Integrations  
**APPROVED**

Reviewed By :Yogesh Patel 11/27/2024  
Supervised By :mohammad ahmed 11/27/2024

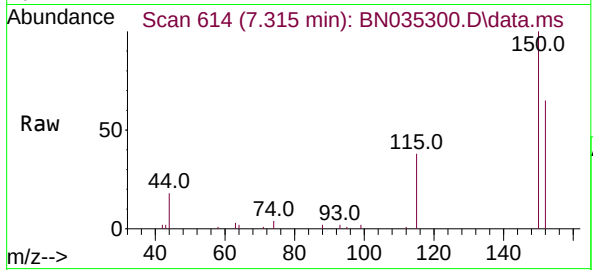
Quant Time: Nov 26 04:38:57 2024  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\8270-SIM-BN112524.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Tue Nov 26 02:36:08 2024  
Response via : Initial Calibration





#1  
1,4-Dichlorobenzene-d4  
Concen: 0.400 ng  
RT: 7.315 min Scan# 614  
Delta R.T. 0.000 min  
Lab File: BN035300.D  
Acq: 26 Nov 2024 03:14

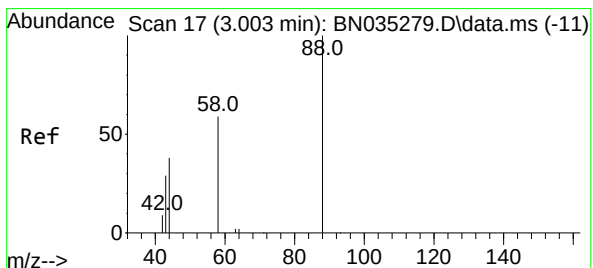
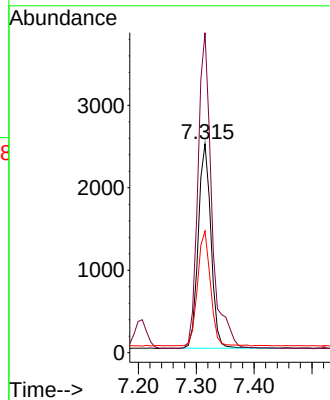
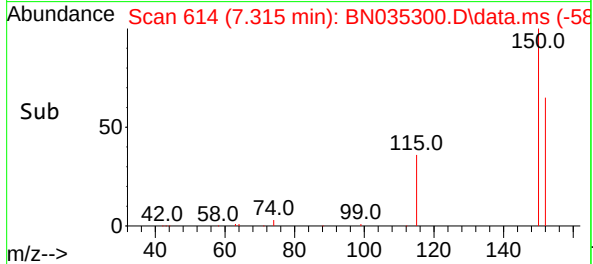
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDCCC0.4EC



Tgt Ion:152 Resp: 380  
Ion Ratio Lower Upper  
152 100  
150 153.3 124.5 186.7  
115 58.3 47.8 71.8

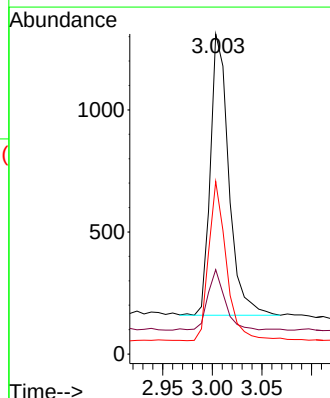
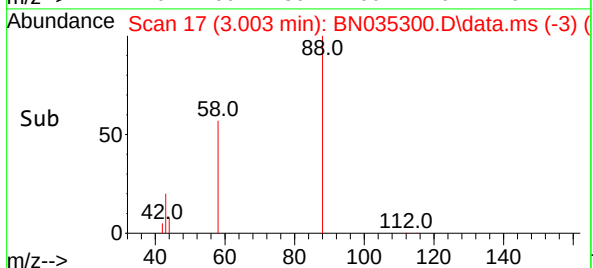
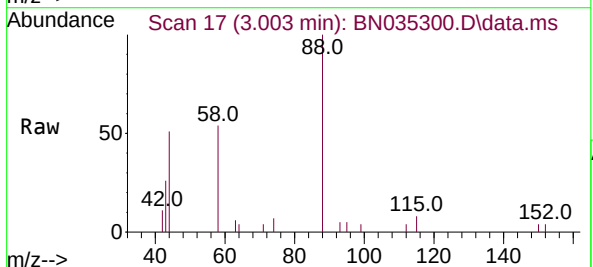
Manual Integrations  
APPROVED

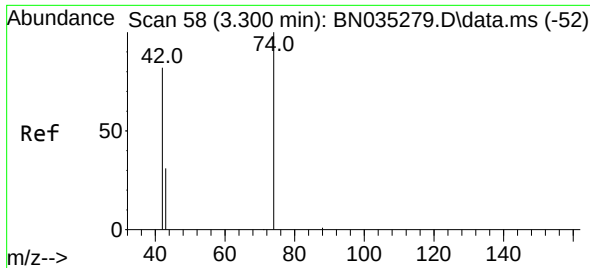
Reviewed By :Yogesh Patel 11/27/2024  
Supervised By :mohammad ahmed 11/27/2024



#2  
1,4-Dioxane  
Concen: 0.544 ng  
RT: 3.003 min Scan# 17  
Delta R.T. 0.000 min  
Lab File: BN035300.D  
Acq: 26 Nov 2024 03:14

Tgt Ion: 88 Resp: 1488  
Ion Ratio Lower Upper  
88 100  
43 20.2 48.1 72.1#  
58 54.6 46.9 70.3





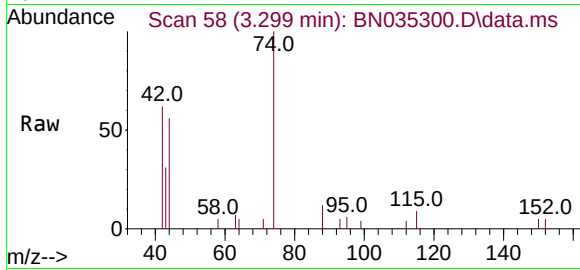
#3  
n-Nitrosodimethylamine  
Concen: 0.387 ng  
RT: 3.299 min Scan# 58  
Delta R.T. -0.001 min  
Lab File: BN035300.D  
Acq: 26 Nov 2024 03:14

Instrument :

BNA\_N

ClientSampleId :

SSTDCCC0.4EC

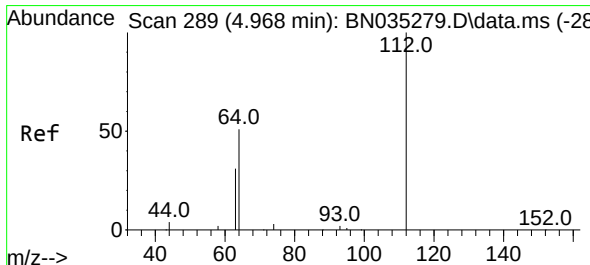
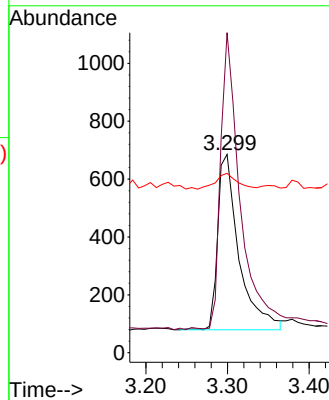
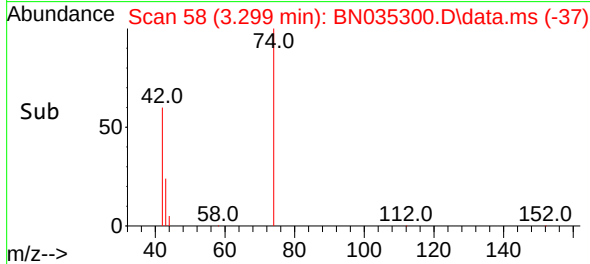


Tgt Ion: 42 Resp: 109  
Ion Ratio Lower Upper  
42 100  
74 163.7 102.7 154.1  
44 9.3 34.1 51.1

Manual Integrations

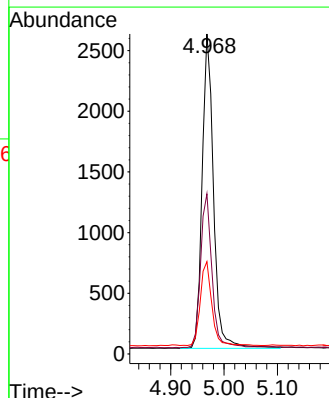
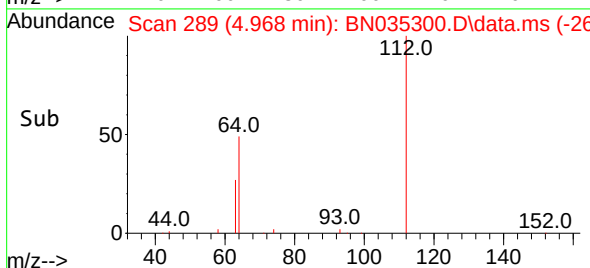
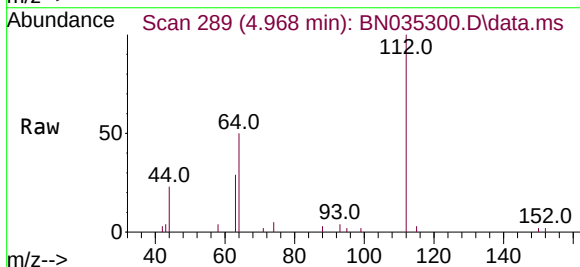
APPROVED

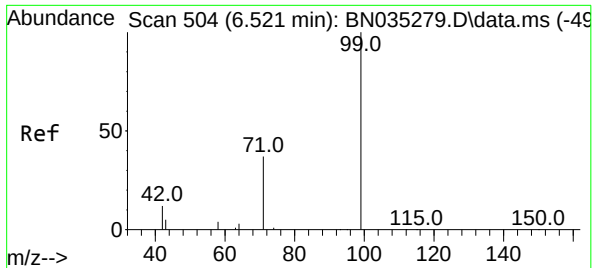
Reviewed By :Yogesh Patel 11/27/2024  
Supervised By :mohammad ahmed 11/27/2024



#4  
2-Fluorophenol  
Concen: 0.535 ng  
RT: 4.968 min Scan# 289  
Delta R.T. -0.000 min  
Lab File: BN035300.D  
Acq: 26 Nov 2024 03:14

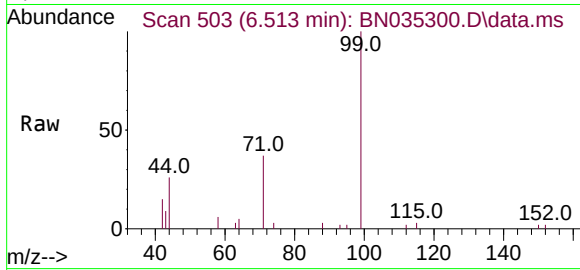
Tgt Ion:112 Resp: 3847  
Ion Ratio Lower Upper  
112 100  
64 49.1 40.4 60.6  
63 26.8 23.8 35.8





#5  
Phenol-d6  
Concen: 0.455 ng  
RT: 6.513 min Scan# 504  
Delta R.T. -0.007 min  
Lab File: BN035300.D  
Acq: 26 Nov 2024 03:14

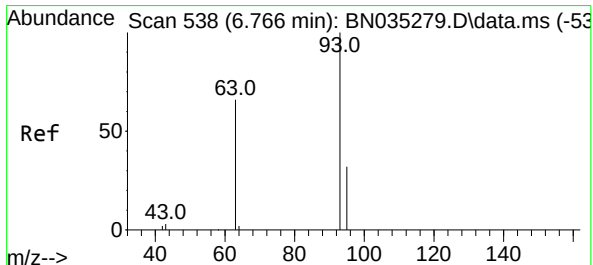
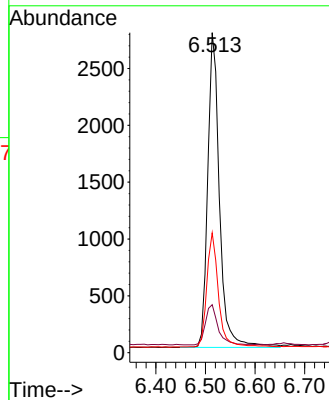
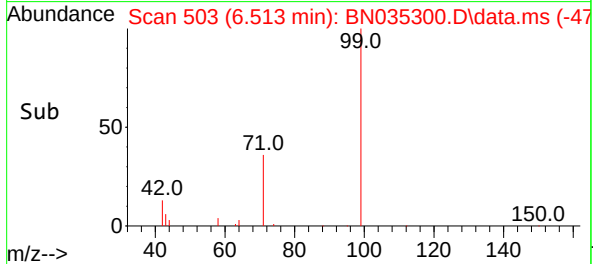
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDCCC0.4EC



Tgt Ion: 99 Resp: 457  
Ion Ratio Lower Upper  
99 100  
42 13.6 12.8 19.2  
71 35.7 31.4 47.2

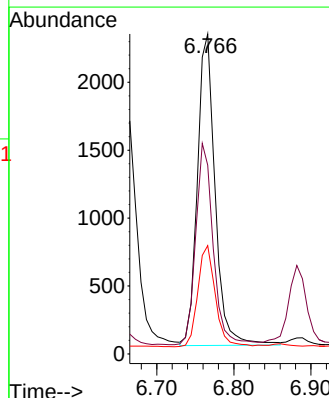
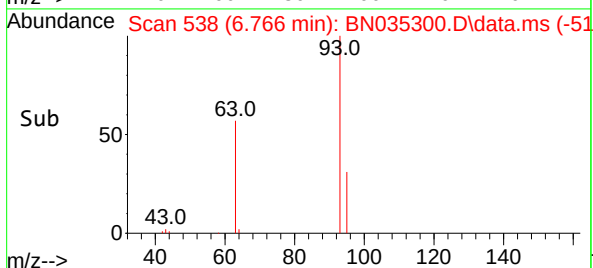
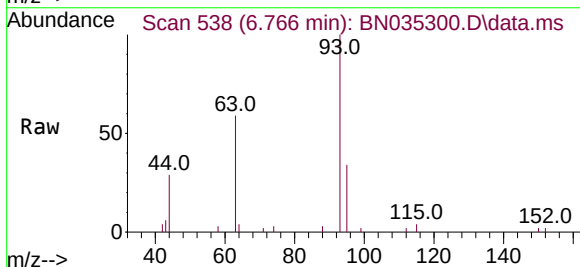
Manual Integrations  
**APPROVED**

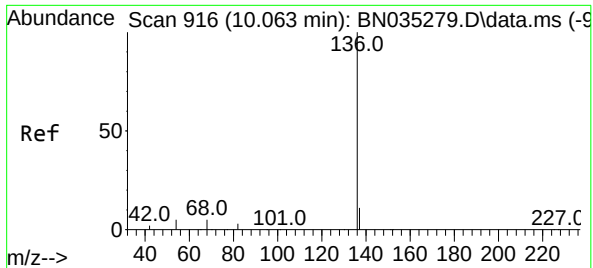
Reviewed By :Yogesh Patel 11/27/2024  
Supervised By :mohammad ahmed 11/27/2024



#6  
bis(2-Chloroethyl)ether  
Concen: 0.435 ng  
RT: 6.766 min Scan# 538  
Delta R.T. -0.000 min  
Lab File: BN035300.D  
Acq: 26 Nov 2024 03:14

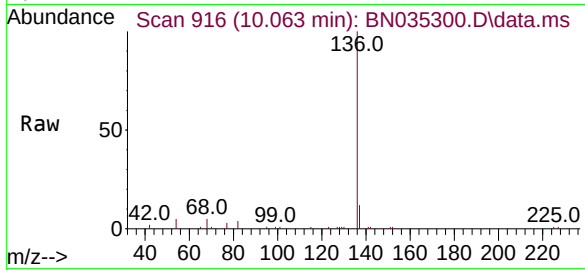
Tgt Ion: 93 Resp: 3676  
Ion Ratio Lower Upper  
93 100  
63 63.3 52.3 78.5  
95 32.3 25.5 38.3





#7  
Naphthalene-d8  
Concen: 0.400 ng  
RT: 10.063 min Scan# 916  
Delta R.T. -0.000 min  
Lab File: BN035300.D  
Acq: 26 Nov 2024 03:14

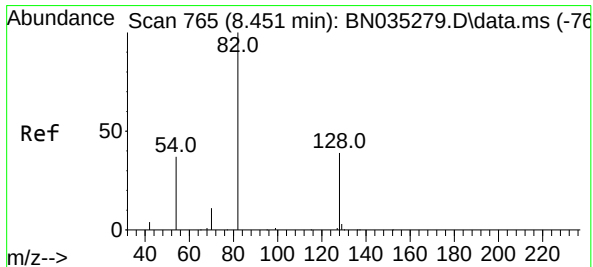
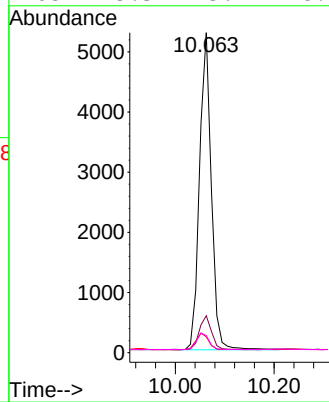
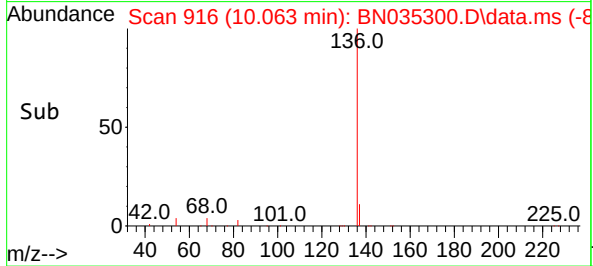
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDCCC0.4EC



Tgt Ion:136 Resp: 8740  
Ion Ratio Lower Upper  
136 100  
137 11.5 9.7 14.5  
54 5.0 5.3 7.9  
68 5.3 5.9 8.9#

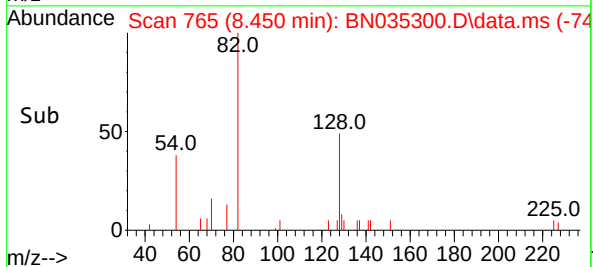
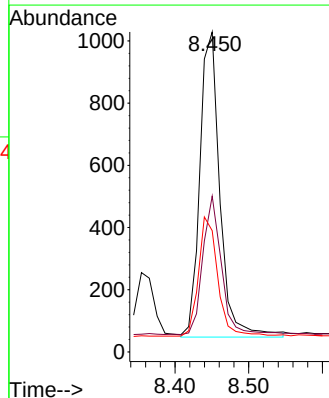
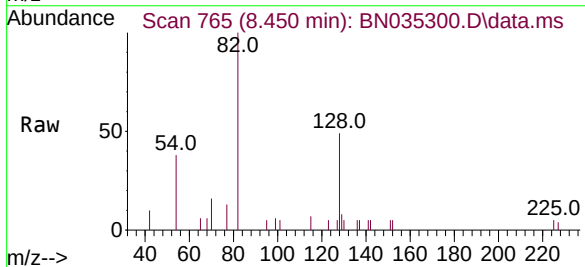
Manual Integrations  
APPROVED

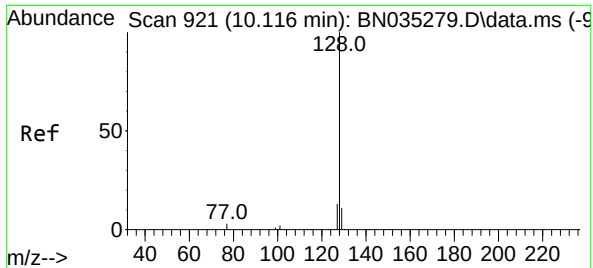
Reviewed By :Yogesh Patel 11/27/2024  
Supervised By :mohammad ahmed 11/27/2024



#8  
Nitrobenzene-d5  
Concen: 0.262 ng m  
RT: 8.450 min Scan# 765  
Delta R.T. -0.000 min  
Lab File: BN035300.D  
Acq: 26 Nov 2024 03:14

Tgt Ion: 82 Resp: 1856  
Ion Ratio Lower Upper  
82 100  
128 48.7 33.0 49.4  
54 37.9 33.3 49.9





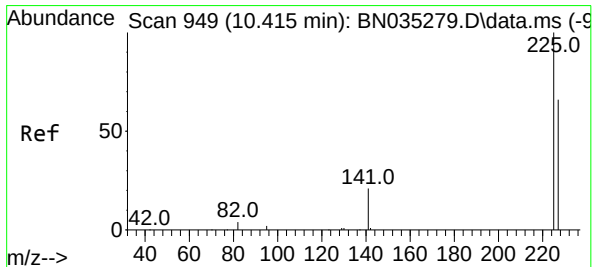
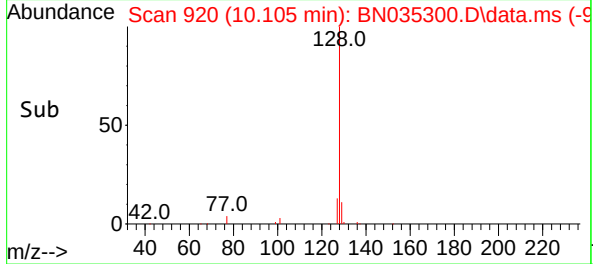
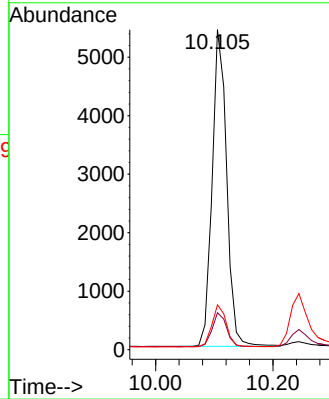
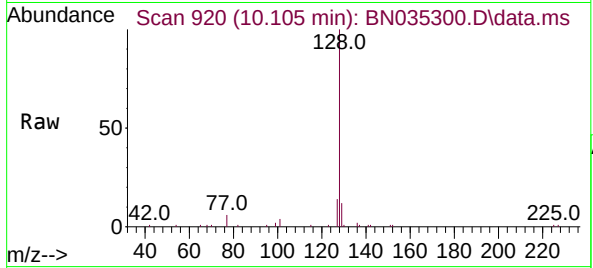
#9  
Naphthalene  
Concen: 0.382 ng  
RT: 10.105 min Scan# 910  
Delta R.T. -0.011 min  
Lab File: BN035300.D  
Acq: 26 Nov 2024 03:14

Instrument :  
BNA\_N  
ClientSampleId :  
SSTDCCC0.4EC

Tgt Ion:128 Resp: 9278  
Ion Ratio Lower Upper  
128 100  
129 11.6 9.6 14.4  
127 14.0 11.3 16.9

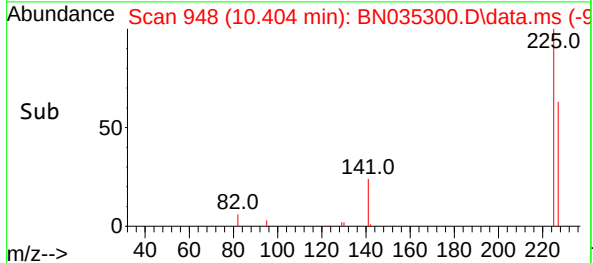
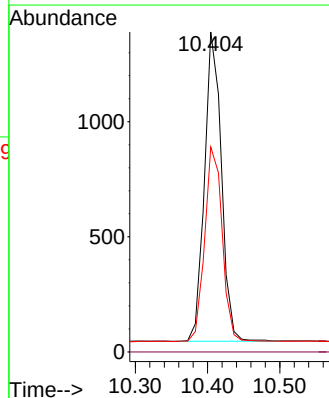
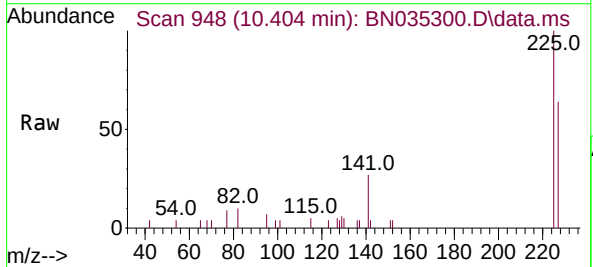
Manual Integrations  
APPROVED

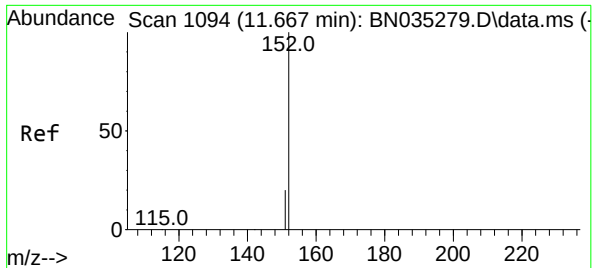
Reviewed By :Yogesh Patel 11/27/2024  
Supervised By :mohammad ahmed 11/27/2024



#10  
Hexachlorobutadiene  
Concen: 0.321 ng  
RT: 10.404 min Scan# 948  
Delta R.T. -0.011 min  
Lab File: BN035300.D  
Acq: 26 Nov 2024 03:14

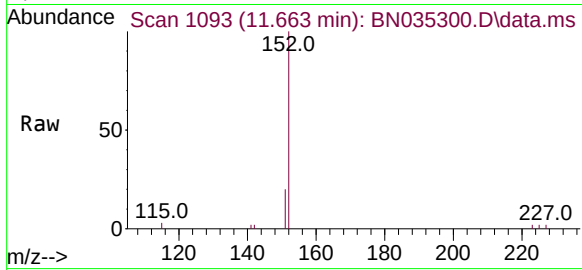
Tgt Ion:225 Resp: 2190  
Ion Ratio Lower Upper  
225 100  
223 0.0 0.0 0.0  
227 65.2 51.3 76.9





#11  
2-Methylnaphthalene-d10  
Concen: 0.396 ng  
RT: 11.663 min Scan# 1109  
Delta R.T. -0.004 min  
Lab File: BN035300.D  
Acq: 26 Nov 2024 03:14

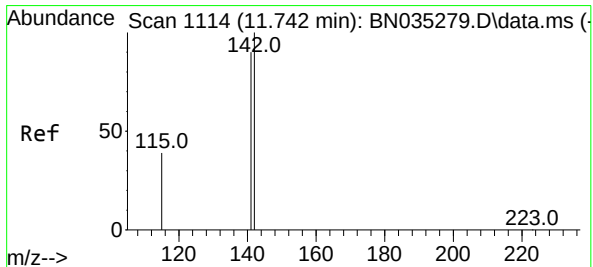
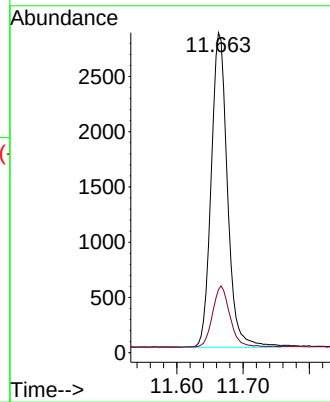
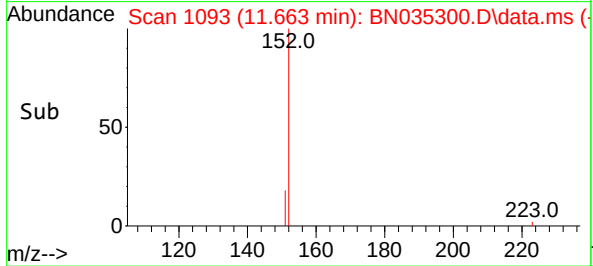
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDCCC0.4EC



Tgt Ion:152 Resp: 485  
Ion Ratio Lower Upper  
152 100  
151 20.7 17.2 25.8

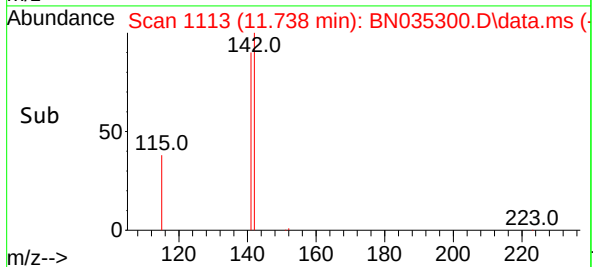
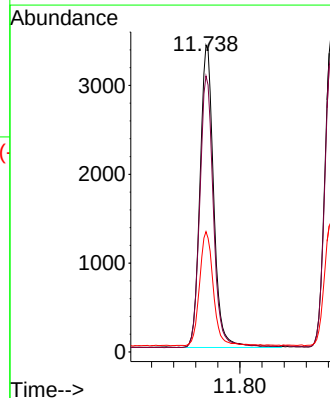
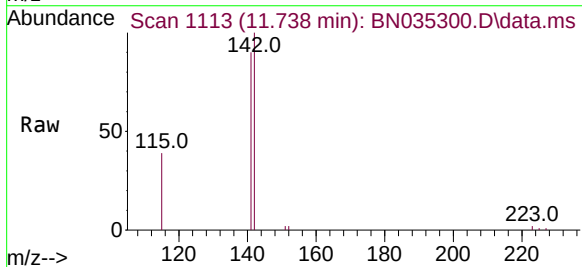
Manual Integrations  
APPROVED

Reviewed By :Yogesh Patel 11/27/2024  
Supervised By :mohammad ahmed 11/27/2024

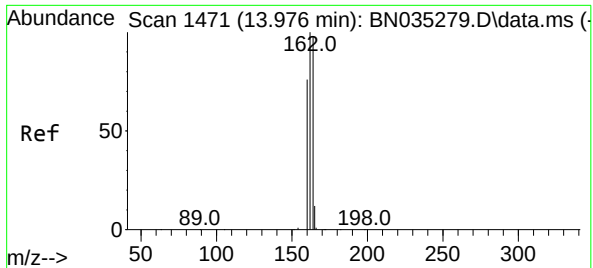


#12  
2-Methylnaphthalene  
Concen: 0.371 ng  
RT: 11.738 min Scan# 1113  
Delta R.T. -0.004 min  
Lab File: BN035300.D  
Acq: 26 Nov 2024 03:14

Tgt Ion:142 Resp: 5885  
Ion Ratio Lower Upper  
142 100  
141 89.9 71.8 107.8  
115 39.2 32.6 49.0

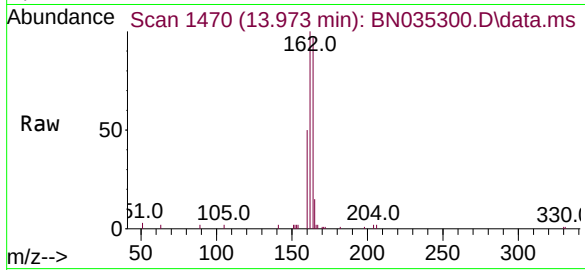






#13  
Acenaphthene-d10  
Concen: 0.400 ng  
RT: 13.973 min Scan# 1471  
Delta R.T. -0.004 min  
Lab File: BN035300.D  
Acq: 26 Nov 2024 03:14

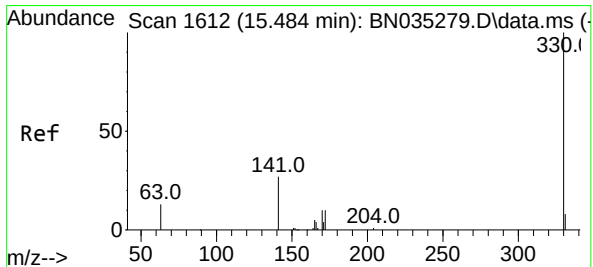
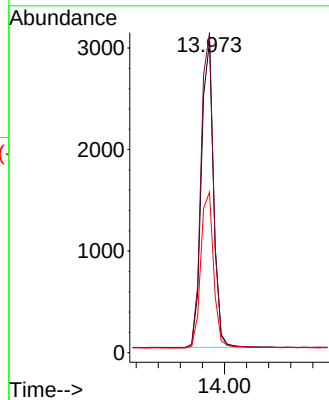
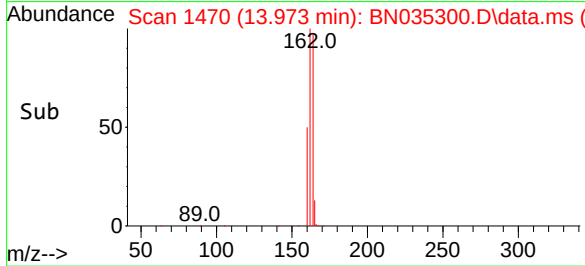
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDCCC0.4EC



Tgt Ion:164 Resp: 4650  
Ion Ratio Lower Upper  
164 100  
162 102.8 82.0 123.0  
160 51.6 63.0 94.4

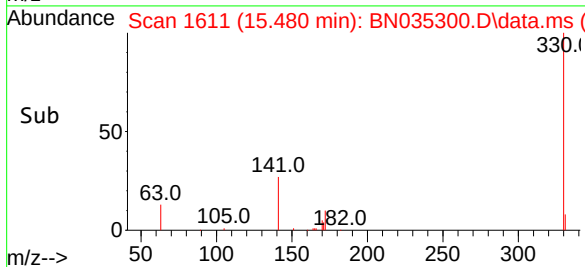
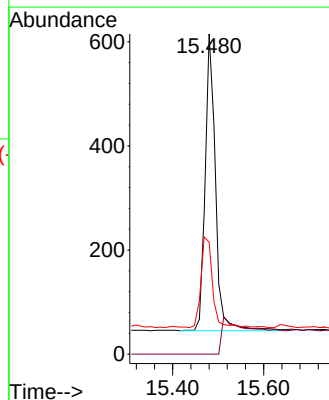
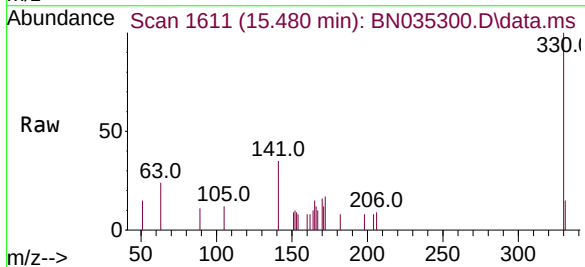
Manual Integrations  
**APPROVED**

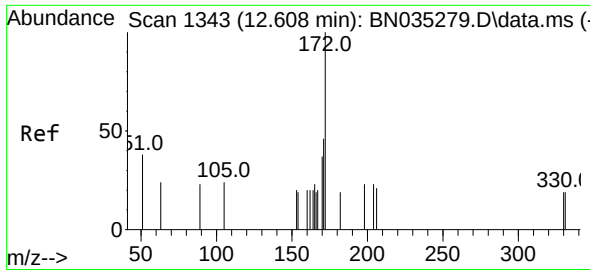
Reviewed By :Yogesh Patel 11/27/2024  
Supervised By :mohammad ahmed 11/27/2024



#14  
2,4,6-Tribromophenol  
Concen: 0.408 ng  
RT: 15.480 min Scan# 1611  
Delta R.T. -0.004 min  
Lab File: BN035300.D  
Acq: 26 Nov 2024 03:14

Tgt Ion:330 Resp: 969  
Ion Ratio Lower Upper  
330 100  
332 0.0 0.0 0.0  
141 34.5 32.4 48.6





#15  
2-Fluorobiphenyl  
Concen: 0.310 ng  
RT: 12.604 min Scan# 1443  
Delta R.T. -0.004 min  
Lab File: BN035300.D  
Acq: 26 Nov 2024 03:14

Instrument :

BNA\_N

ClientSampleId :

SSTDCCC0.4EC

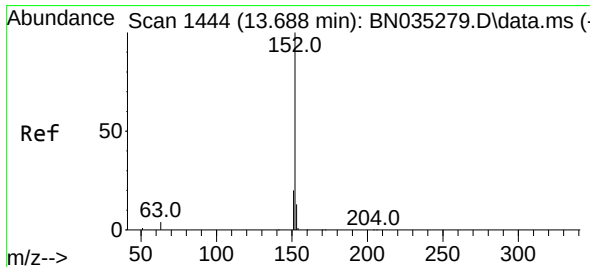
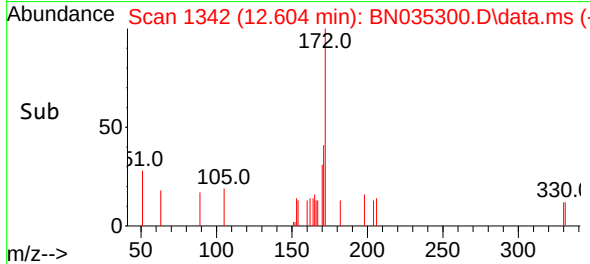
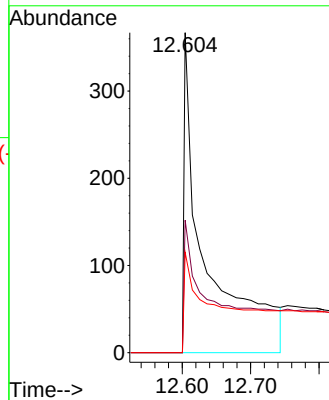
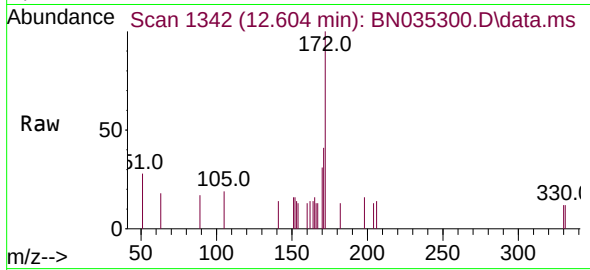
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 172     | 100   |       |       |
| 171     | 41.4  | 36.6  | 55.0  |
| 170     | 31.3  | 29.7  | 44.5  |

Manual Integrations

APPROVED

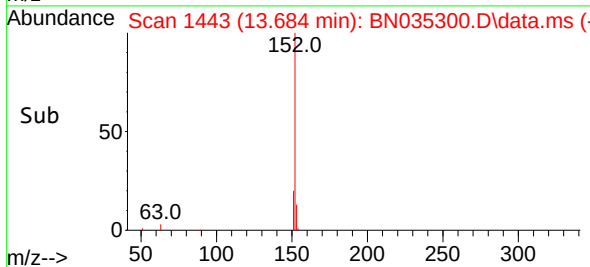
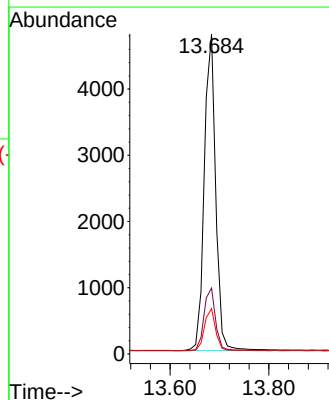
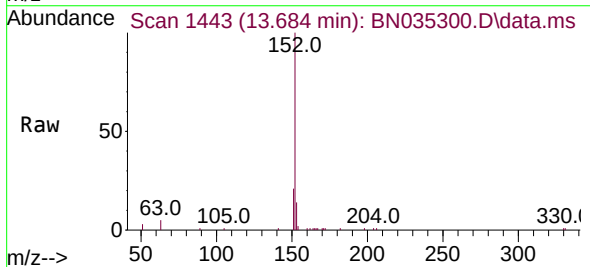
Reviewed By :Yogesh Patel 11/27/2024

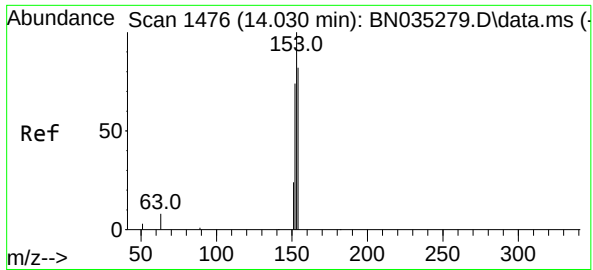
Supervised By :mohammad ahmed 11/27/2024



#16  
Acenaphthylene  
Concen: 0.328 ng  
RT: 13.684 min Scan# 1443  
Delta R.T. -0.004 min  
Lab File: BN035300.D  
Acq: 26 Nov 2024 03:14

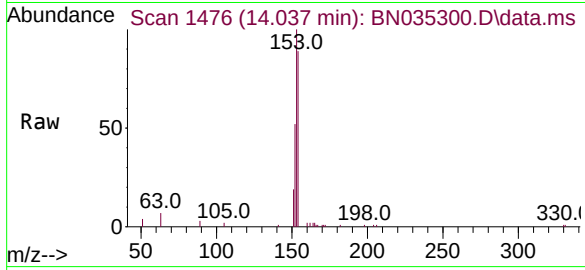
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 151     | 19.9  | 15.9  | 23.9  |
| 153     | 13.1  | 10.2  | 15.4  |





#17  
Acenaphthene  
Concen: 0.348 ng  
RT: 14.037 min Scan# 1476  
Delta R.T. 0.007 min  
Lab File: BN035300.D  
Acq: 26 Nov 2024 03:14

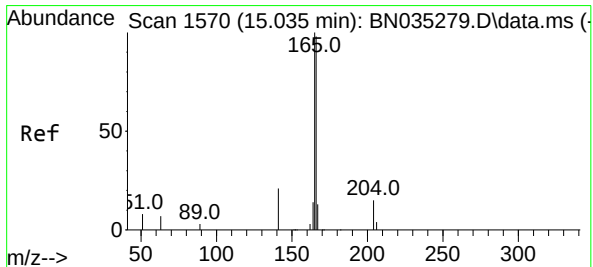
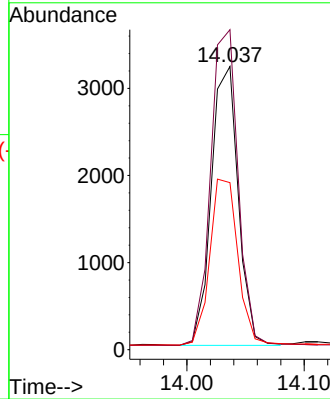
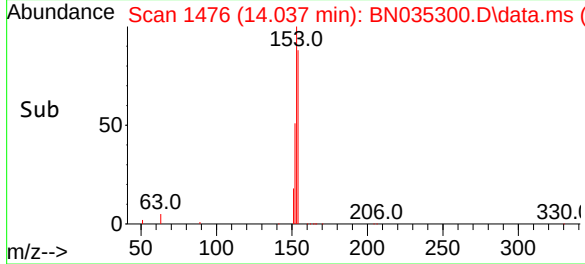
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDCCC0.4EC



Tgt Ion:154 Resp: 5129  
Ion Ratio Lower Upper  
154 100  
153 115.9 96.1 144.1  
152 62.8 72.2 108.2

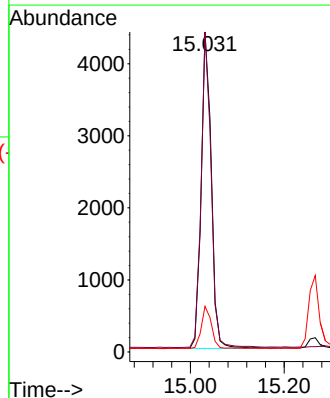
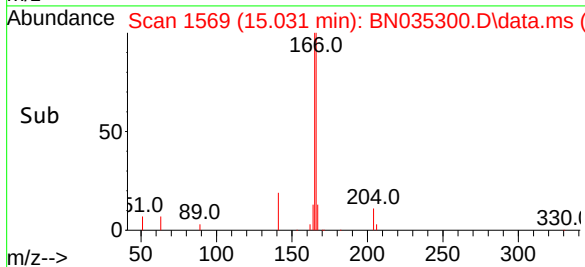
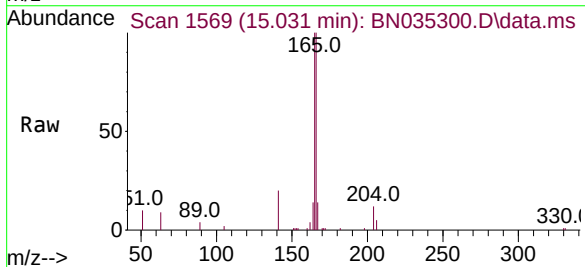
Manual Integrations  
APPROVED

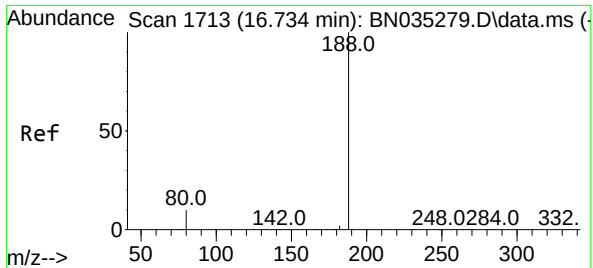
Reviewed By :Yogesh Patel 11/27/2024  
Supervised By :mohammad ahmed 11/27/2024



#18  
Fluorene  
Concen: 0.318 ng  
RT: 15.031 min Scan# 1569  
Delta R.T. -0.004 min  
Lab File: BN035300.D  
Acq: 26 Nov 2024 03:14

Tgt Ion:166 Resp: 6559  
Ion Ratio Lower Upper  
166 100  
165 98.2 81.2 121.8  
167 13.7 10.5 15.7





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 16.741 min Scan# 11

Delta R.T. 0.007 min

Lab File: BN035300.D

Acq: 26 Nov 2024 03:14

Instrument :

BNA\_N

ClientSampleId :

SSTDCCC0.4EC

Tgt Ion:188 Resp: 894

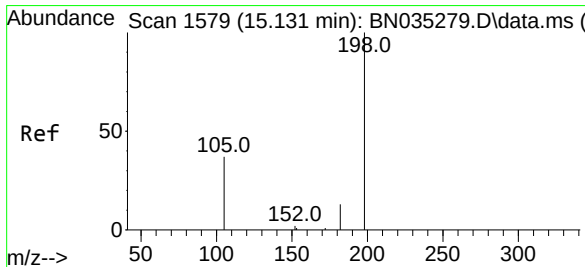
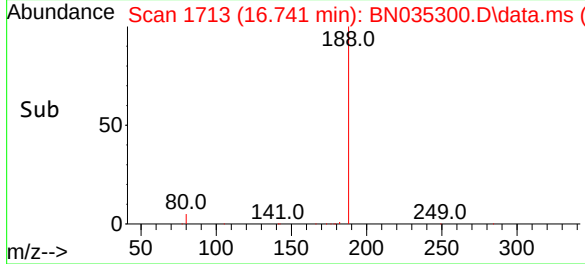
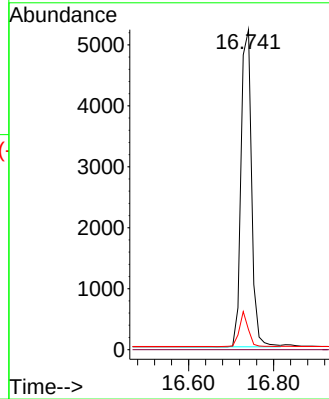
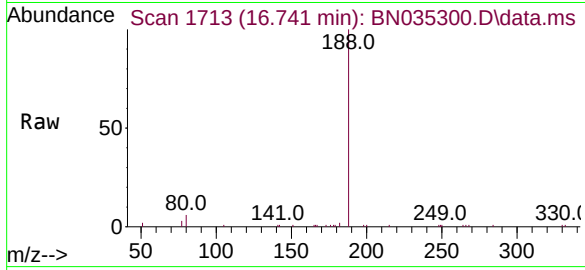
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 188 | 100   |       |       |
| 94  | 0.0   | 0.0   | 0.0   |
| 80  | 6.2   | 8.9   | 13.3  |

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 11/27/2024

Supervised By :mohammad ahmed 11/27/2024



#20

4,6-Dinitro-2-methylphenol

Concen: 0.436 ng

RT: 15.127 min Scan# 1578

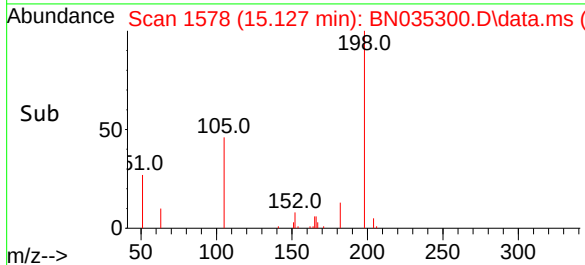
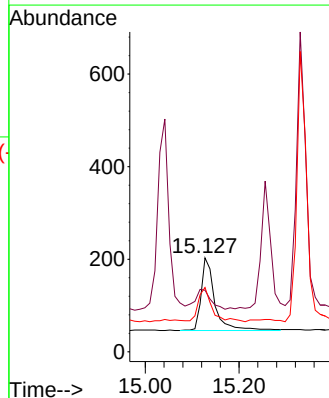
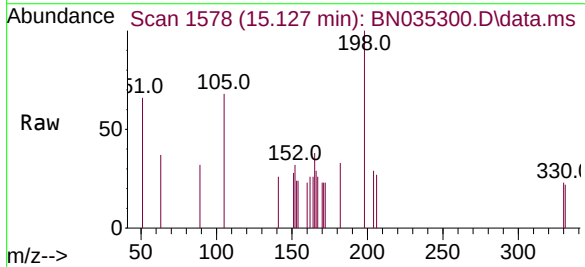
Delta R.T. -0.004 min

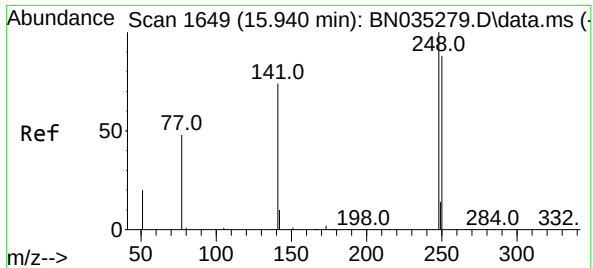
Lab File: BN035300.D

Acq: 26 Nov 2024 03:14

Tgt Ion:198 Resp: 319

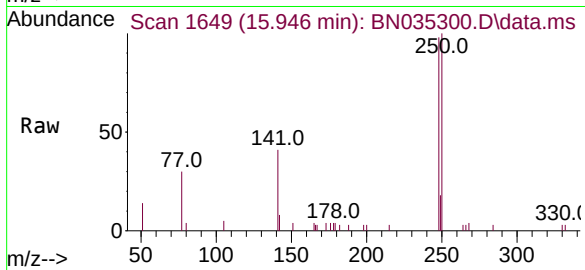
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 198 | 100   |       |       |
| 51  | 65.5  | 53.6  | 80.4  |
| 105 | 68.5  | 47.4  | 71.2  |





#21  
4-Bromophenyl-phenylether  
Concen: 0.394 ng  
RT: 15.946 min Scan# 1649  
Delta R.T. 0.006 min  
Lab File: BN035300.D  
Acq: 26 Nov 2024 03:14

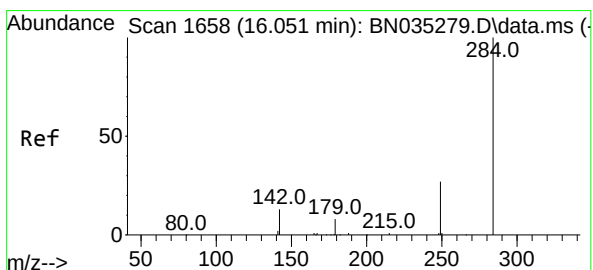
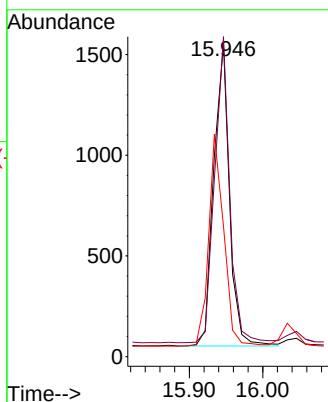
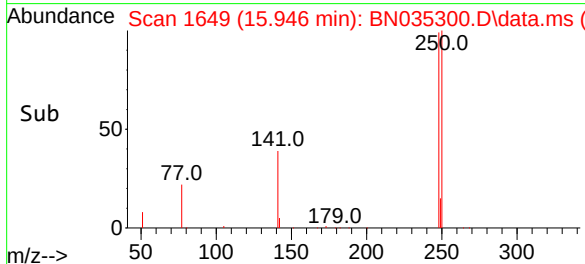
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDCCC0.4EC



Tgt Ion:248 Resp: 223  
Ion Ratio Lower Upper  
248 100  
250 102.1 74.8 112.2  
141 41.6 59.0 88.4

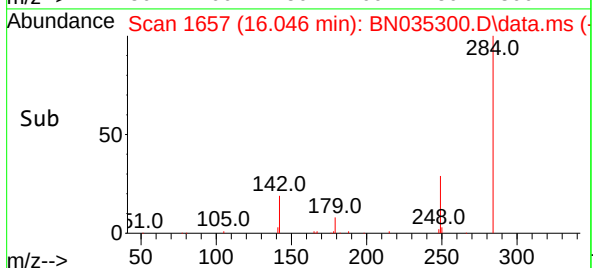
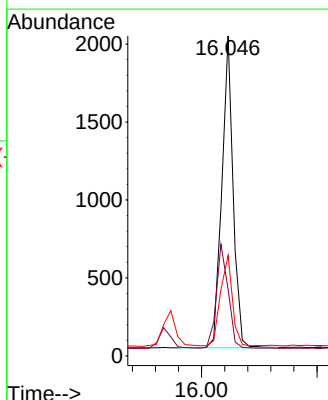
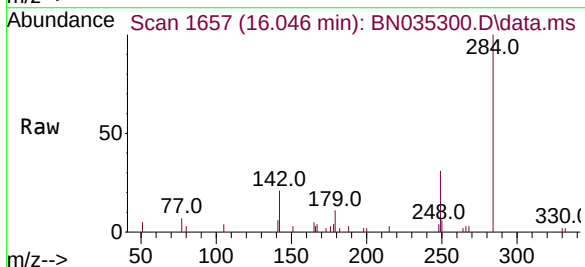
Manual Integrations  
APPROVED

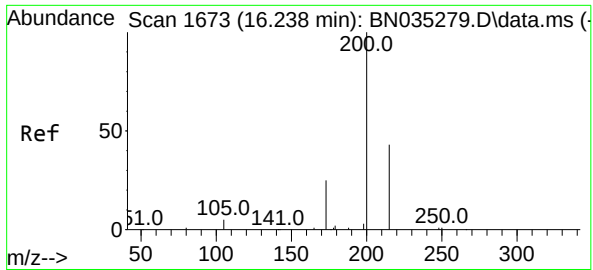
Reviewed By :Yogesh Patel 11/27/2024  
Supervised By :mohammad ahmed 11/27/2024



#22  
Hexachlorobenzene  
Concen: 0.335 ng  
RT: 16.046 min Scan# 1657  
Delta R.T. -0.006 min  
Lab File: BN035300.D  
Acq: 26 Nov 2024 03:14

Tgt Ion:284 Resp: 2720  
Ion Ratio Lower Upper  
284 100  
142 34.9 28.7 43.1  
249 30.4 25.4 38.0





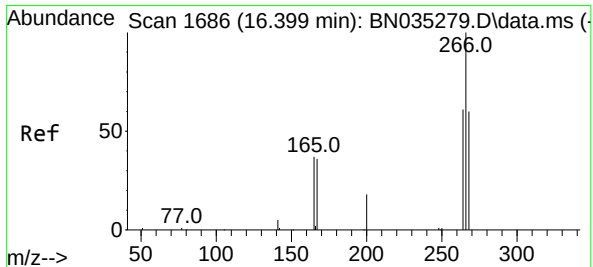
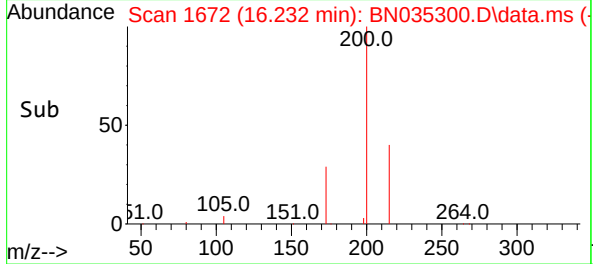
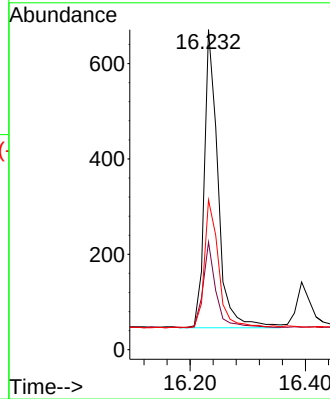
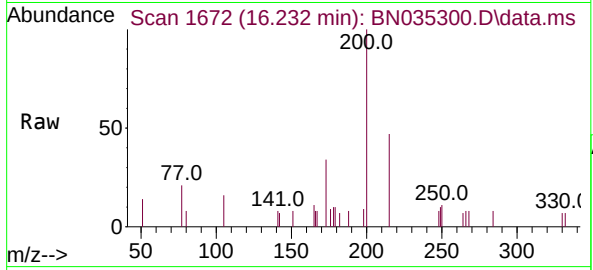
#23  
Atrazine  
Concen: 0.431 ng  
RT: 16.232 min Scan# 1672  
Delta R.T. -0.006 min  
Lab File: BN035300.D  
Acq: 26 Nov 2024 03:14

Instrument :  
BNA\_N  
ClientSampleId :  
SSTDCCC0.4EC

Tgt Ion:200 Resp: 103  
Ion Ratio Lower Upper  
200 100  
173 33.7 25.8 38.8  
215 46.8 38.6 58.0

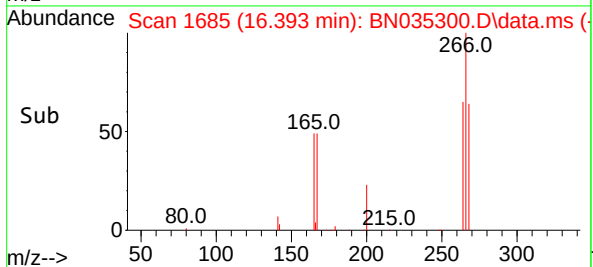
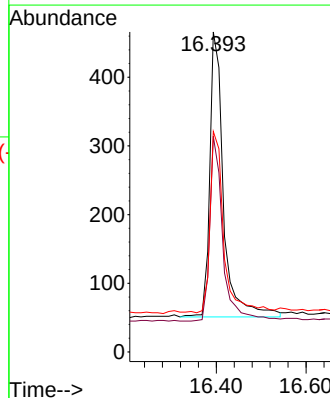
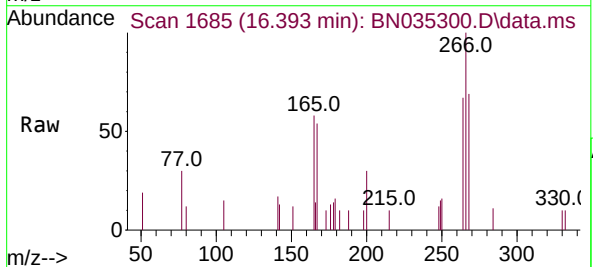
Manual Integrations  
APPROVED

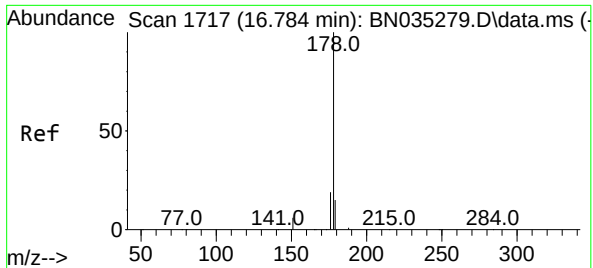
Reviewed By :Yogesh Patel 11/27/2024  
Supervised By :mohammad ahmed 11/27/2024



#24  
Pentachlorophenol  
Concen: 0.450 ng  
RT: 16.393 min Scan# 1685  
Delta R.T. -0.006 min  
Lab File: BN035300.D  
Acq: 26 Nov 2024 03:14

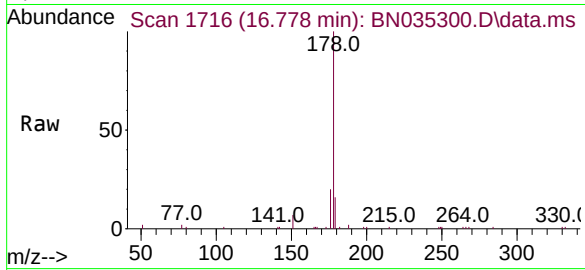
Tgt Ion:266 Resp: 878  
Ion Ratio Lower Upper  
266 100  
264 61.7 49.3 73.9  
268 63.4 48.6 73.0





#25  
Phenanthrene  
Concen: 0.356 ng  
RT: 16.778 min Scan# 1716  
Delta R.T. -0.006 min  
Lab File: BN035300.D  
Acq: 26 Nov 2024 03:14

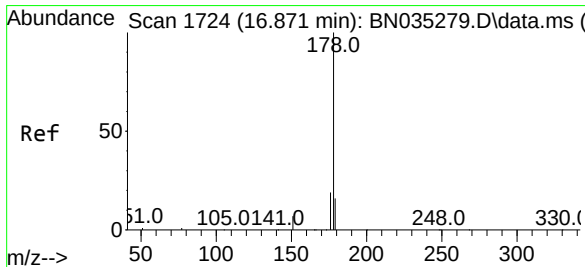
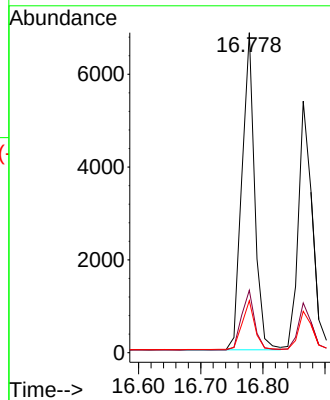
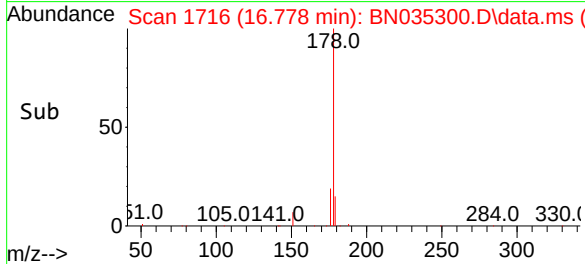
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDCCC0.4EC



Tgt Ion:178 Resp: 9774  
Ion Ratio Lower Upper  
178 100  
176 19.2 15.4 23.0  
179 15.5 12.6 18.8

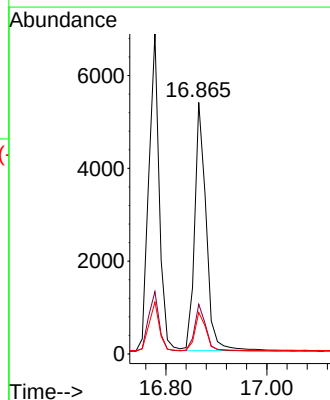
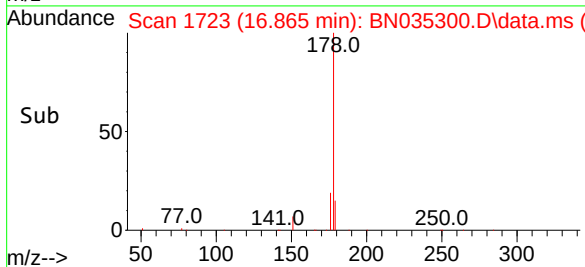
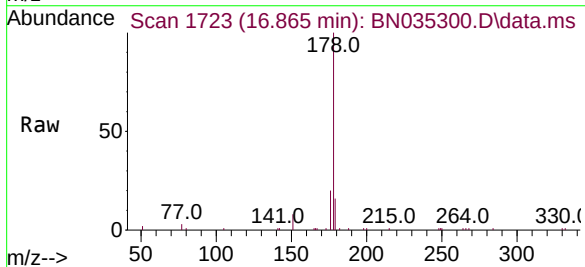
Manual Integrations  
**APPROVED**

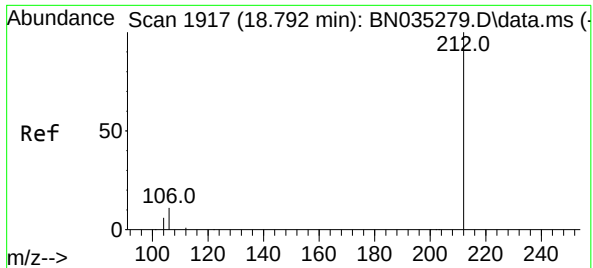
Reviewed By :Yogesh Patel 11/27/2024  
Supervised By :mohammad ahmed 11/27/2024



#26  
Anthracene  
Concen: 0.357 ng  
RT: 16.865 min Scan# 1723  
Delta R.T. -0.006 min  
Lab File: BN035300.D  
Acq: 26 Nov 2024 03:14

Tgt Ion:178 Resp: 8425  
Ion Ratio Lower Upper  
178 100  
176 18.5 15.0 22.4  
179 15.5 12.4 18.6





#27

Fluoranthene-d10

Concen: 0.353 ng

RT: 18.790 min Scan# 1915

Delta R.T. -0.002 min

Lab File: BN035300.D

Acq: 26 Nov 2024 03:14

Instrument :

BNA\_N

ClientSampleId :

SSTDCCC0.4EC

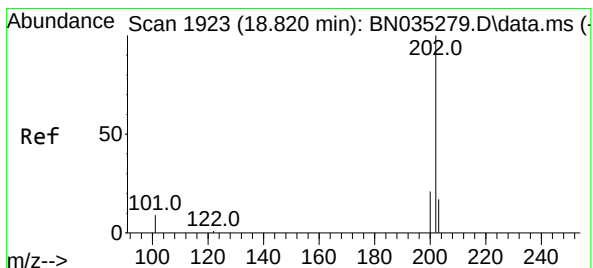
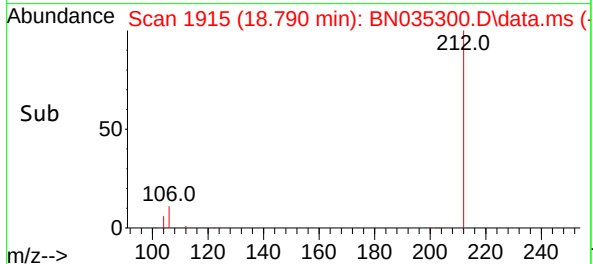
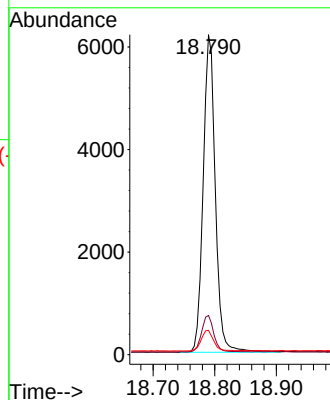
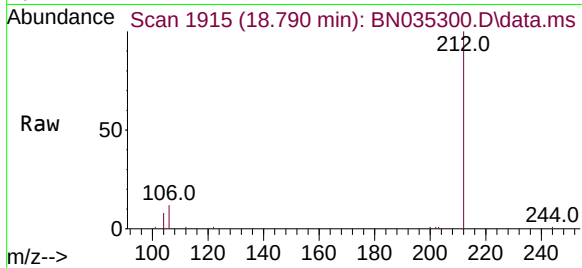
|           |       |       |      |
|-----------|-------|-------|------|
| Tgt Ion:  | 212   | Resp: | 844  |
| Ion Ratio | Lower | Upper |      |
| 212       | 100   |       |      |
| 106       | 11.6  | 9.8   | 14.8 |
| 104       | 6.8   | 5.6   | 8.4  |

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 11/27/2024

Supervised By :mohammad ahmed 11/27/2024



#28

Fluoranthene

Concen: 0.319 ng

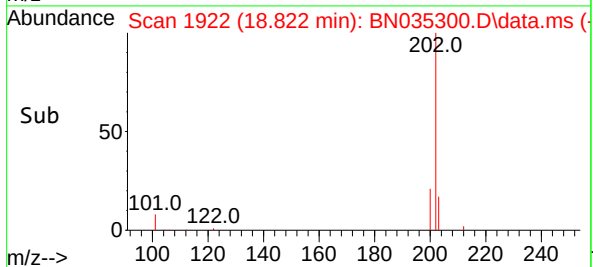
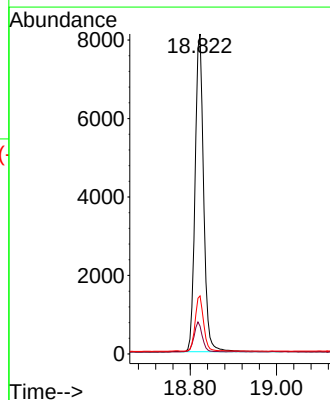
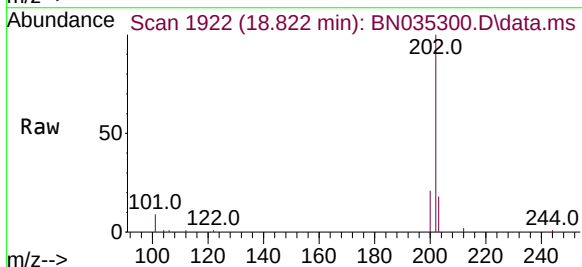
RT: 18.822 min Scan# 1922

Delta R.T. 0.002 min

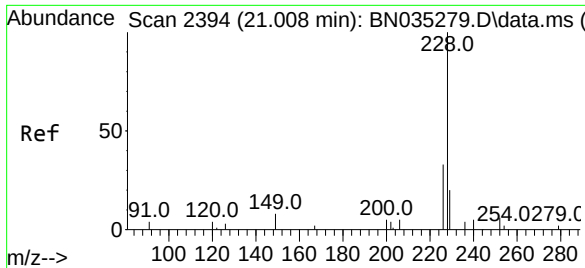
Lab File: BN035300.D

Acq: 26 Nov 2024 03:14

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 202   | Resp: | 11052 |
| Ion Ratio | Lower | Upper |       |
| 202       | 100   |       |       |
| 101       | 9.1   | 7.6   | 11.4  |
| 203       | 17.1  | 13.8  | 20.8  |

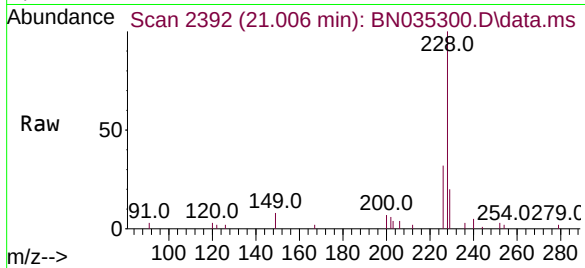






#29  
Chrysene-d12  
Concen: 0.400 ng  
RT: 21.006 min Scan# 21  
Delta R.T. -0.002 min  
Lab File: BN035300.D  
Acq: 26 Nov 2024 03:14

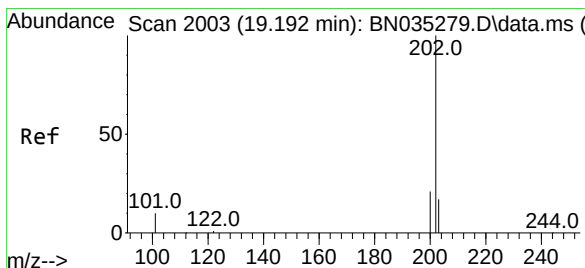
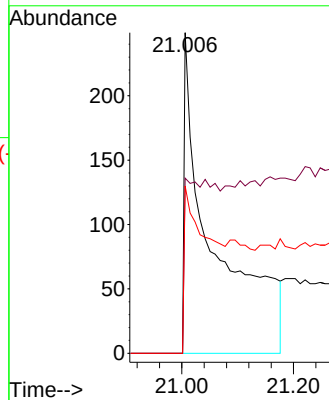
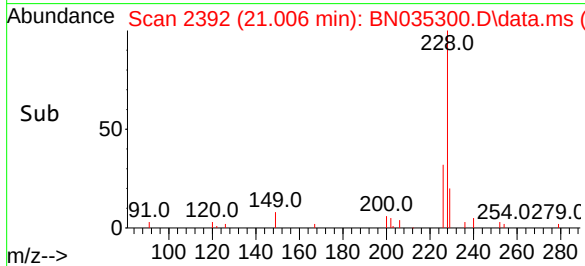
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDCCC0.4EC



Tgt Ion:240 Resp: 87  
Ion Ratio Lower Upper  
240 100  
120 54.6 54.9 82.3  
236 52.2 54.0 81.0

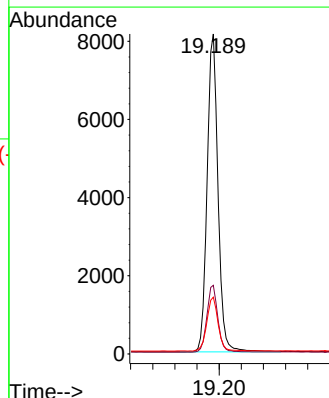
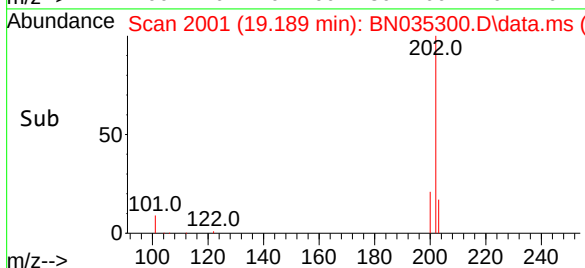
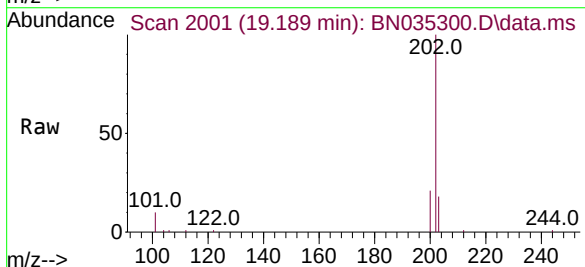
Manual Integrations  
**APPROVED**

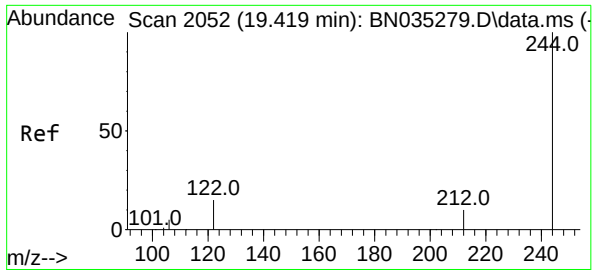
Reviewed By :Yogesh Patel 11/27/2024  
Supervised By :mohammad ahmed 11/27/2024



#30  
Pyrene  
Concen: 0.351 ng  
RT: 19.189 min Scan# 2001  
Delta R.T. -0.003 min  
Lab File: BN035300.D  
Acq: 26 Nov 2024 03:14

Tgt Ion:202 Resp: 11118  
Ion Ratio Lower Upper  
202 100  
200 21.2 16.8 25.2  
203 17.6 14.4 21.6





#31  
Terphenyl-d14  
Concen: 0.361 ng  
RT: 19.422 min Scan# 2051  
Delta R.T. 0.003 min  
Lab File: BN035300.D  
Acq: 26 Nov 2024 03:14

Instrument :

BNA\_N

ClientSampleId :

SSTDCCC0.4EC

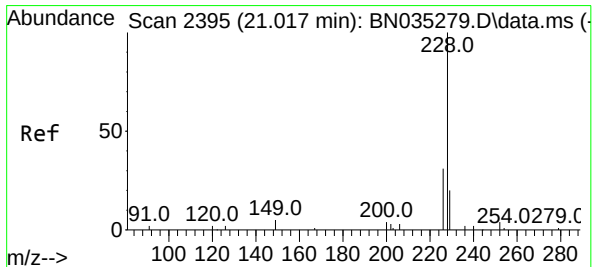
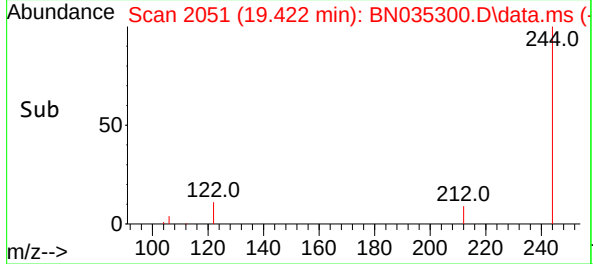
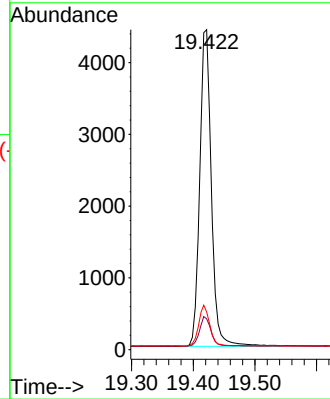
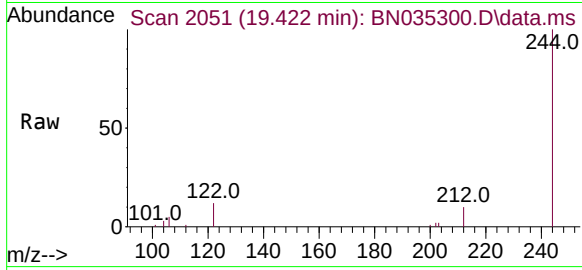
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 244     | 100   |       |       |
| 212     | 9.6   | 9.4   | 14.0  |
| 122     | 11.8  | 13.0  | 19.4  |

Manual Integrations

APPROVED

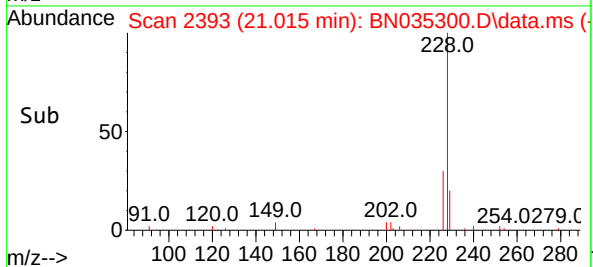
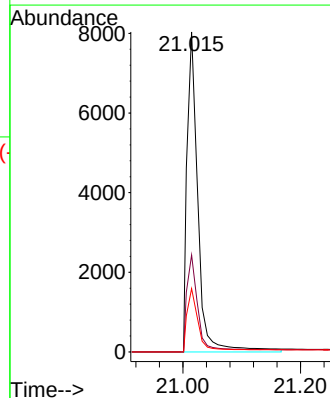
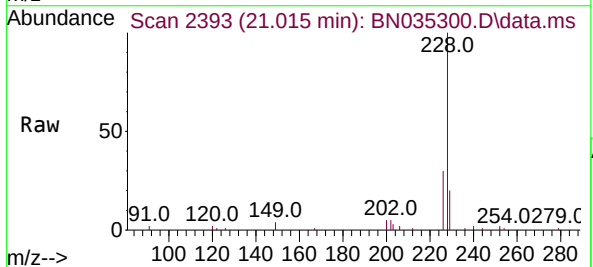
Reviewed By :Yogesh Patel 11/27/2024

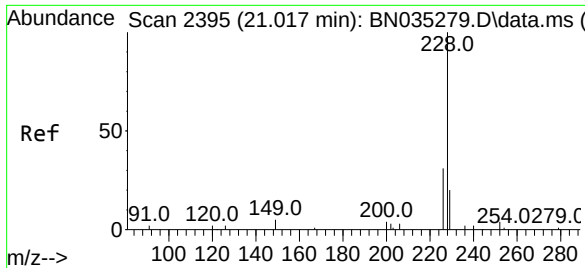
Supervised By :mohammad ahmed 11/27/2024



#32  
Benzo(a)anthracene  
Concen: 0.342 ng  
RT: 21.015 min Scan# 2393  
Delta R.T. -0.002 min  
Lab File: BN035300.D  
Acq: 26 Nov 2024 03:14

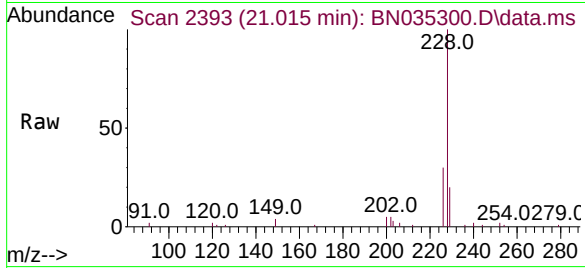
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 228     | 100   |       |       |
| 226     | 30.3  | 24.7  | 37.1  |
| 229     | 19.8  | 16.2  | 24.2  |





#33  
Chrysene  
Concen: 0.342 ng  
RT: 21.015 min Scan# 2103  
Delta R.T. -0.002 min  
Lab File: BN035300.D  
Acq: 26 Nov 2024 03:14

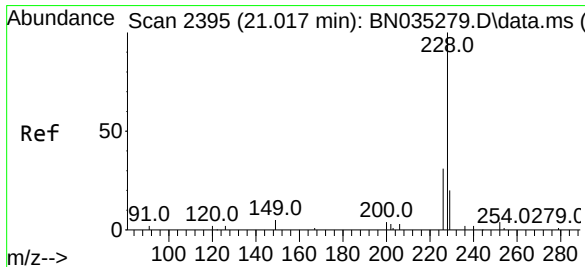
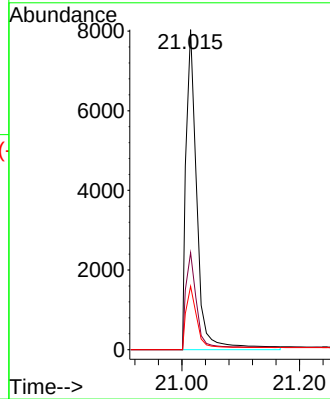
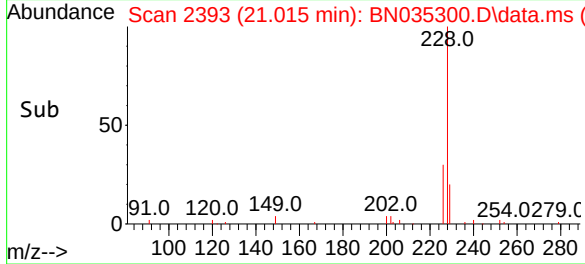
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDCCC0.4EC



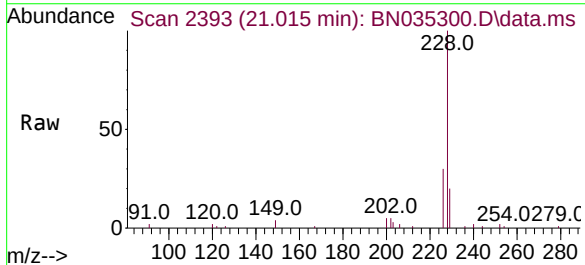
Tgt Ion:228 Resp: 10362  
Ion Ratio Lower Upper  
228 100  
226 30.3 24.7 37.1  
229 19.8 16.2 24.2

Manual Integrations  
**APPROVED**

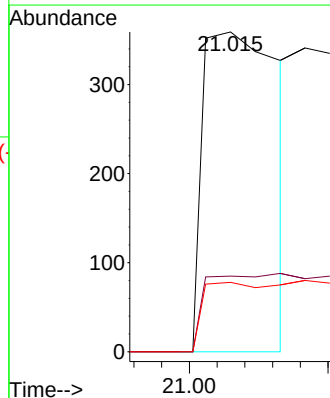
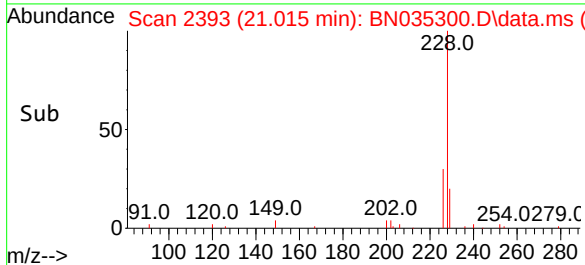
Reviewed By :Yogesh Patel 11/27/2024  
Supervised By :mohammad ahmed 11/27/2024

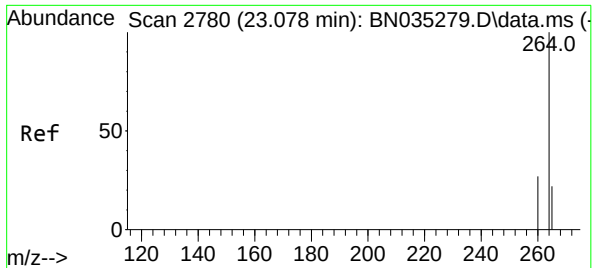


#34  
Bis(2-ethylhexyl)phthalate  
Concen: 0.358 ng  
RT: 21.015 min Scan# 2393  
Delta R.T. -0.002 min  
Lab File: BN035300.D  
Acq: 26 Nov 2024 03:14



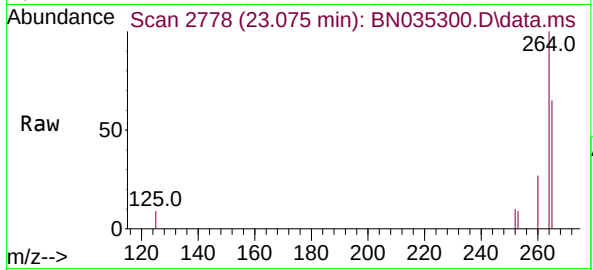
Tgt Ion:149 Resp: 596  
Ion Ratio Lower Upper  
149 100  
167 32.0 0.0 0.0#  
279 15.4 13.0 19.6





#35  
Perylene-d12  
Concen: 0.400 ng  
RT: 23.075 min Scan# 21  
Delta R.T. -0.002 min  
Lab File: BN035300.D  
Acq: 26 Nov 2024 03:14

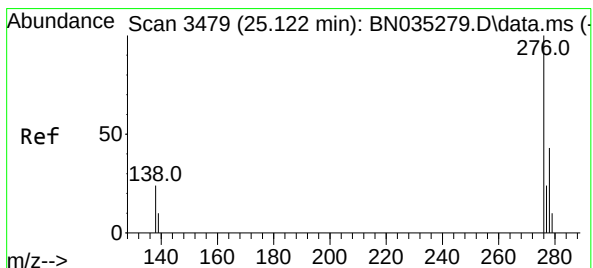
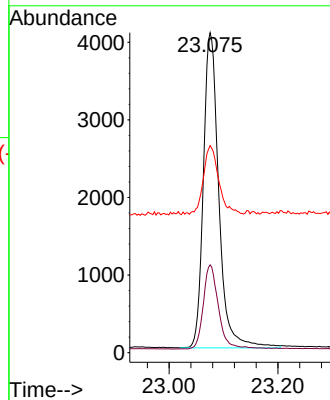
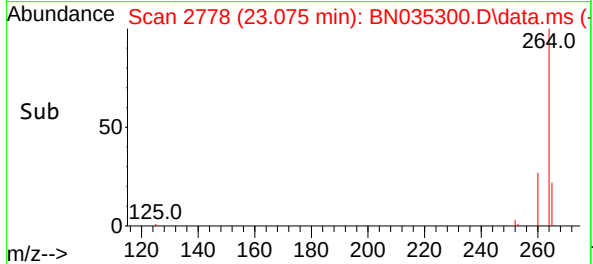
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDCCC0.4EC



Tgt Ion:264 Resp: 800  
Ion Ratio Lower Upper  
264 100  
260 27.4 22.3 33.5  
265 64.7 68.6 103.0

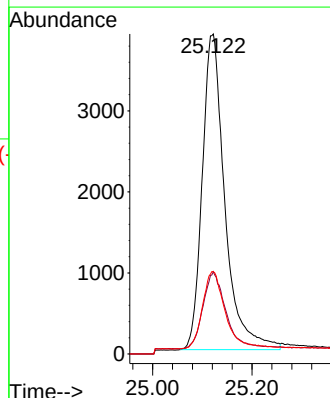
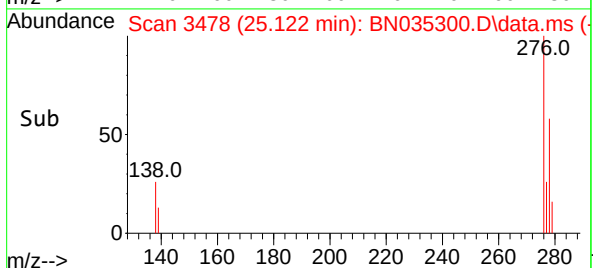
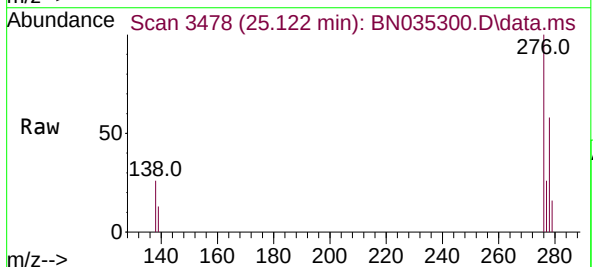
Manual Integrations  
APPROVED

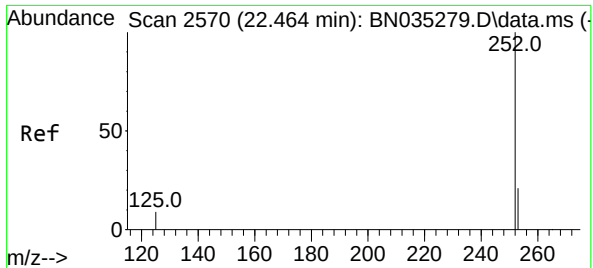
Reviewed By :Yogesh Patel 11/27/2024  
Supervised By :mohammad ahmed 11/27/2024



#36  
Indeno(1,2,3-cd)pyrene  
Concen: 0.376 ng  
RT: 25.122 min Scan# 3478  
Delta R.T. 0.000 min  
Lab File: BN035300.D  
Acq: 26 Nov 2024 03:14

Tgt Ion:276 Resp: 12330  
Ion Ratio Lower Upper  
276 100  
138 23.7 18.8 28.2  
277 24.0 18.2 27.4





#37

Benzo(b)fluoranthene

Concen: 0.302 ng

RT: 22.461 min Scan# 2568

Delta R.T. -0.002 min

Lab File: BN035300.D

Acq: 26 Nov 2024 03:14

Instrument :

BNA\_N

ClientSampleId :

SSTDCCC0.4EC

Tgt Ion:252 Resp: 10480

Ion Ratio Lower Upper

252 100

253 25.1 20.2 30.2

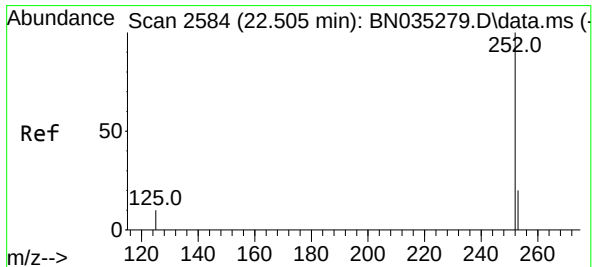
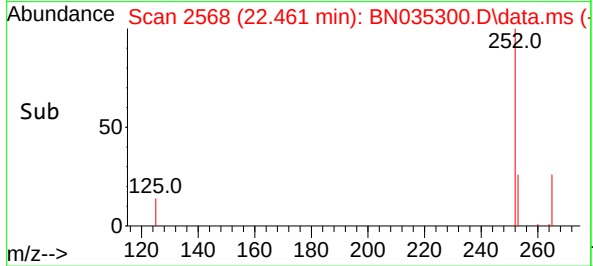
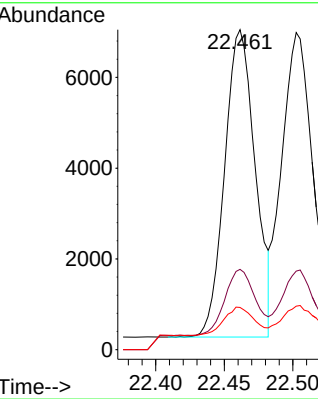
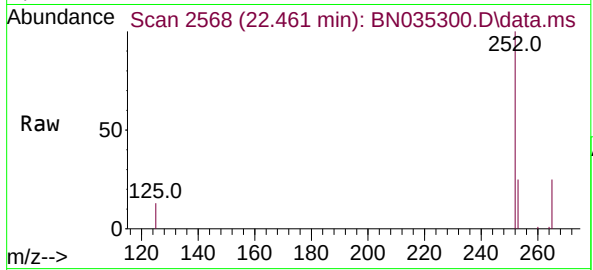
125 13.2 12.0 18.0

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 11/27/2024

Supervised By :mohammad ahmed 11/27/2024



#38

Benzo(k)fluoranthene

Concen: 0.313 ng

RT: 22.502 min Scan# 2582

Delta R.T. -0.002 min

Lab File: BN035300.D

Acq: 26 Nov 2024 03:14

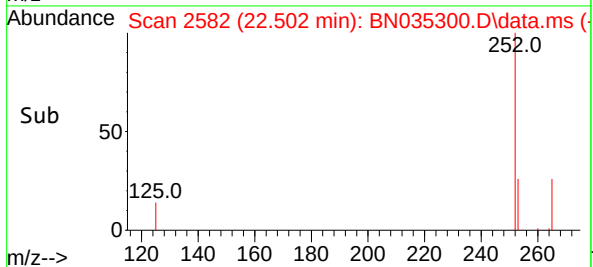
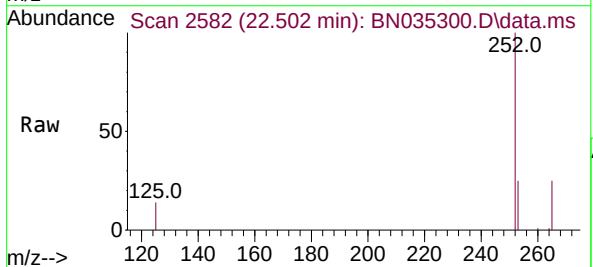
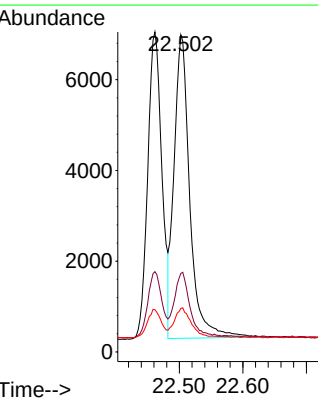
Tgt Ion:252 Resp: 11527

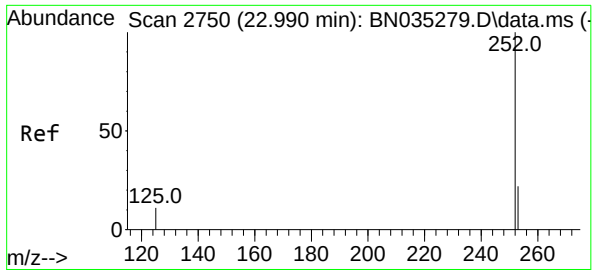
Ion Ratio Lower Upper

252 100

253 24.8 20.1 30.1

125 13.7 12.7 19.1





#39

Benzo(a)pyrene

Concen: 0.337 ng

RT: 22.988 min Scan# 21

Delta R.T. -0.002 min

Lab File: BN035300.D

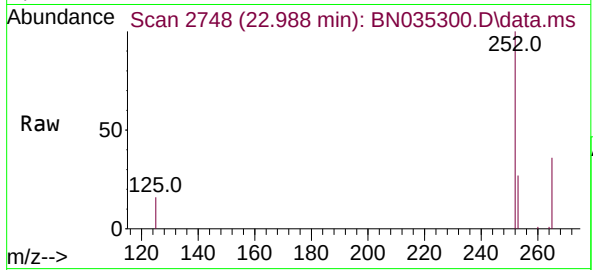
Acq: 26 Nov 2024 03:14

Instrument :

BNA\_N

ClientSampleId :

SSTDCCC0.4EC



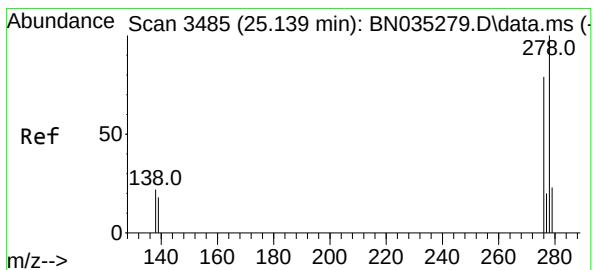
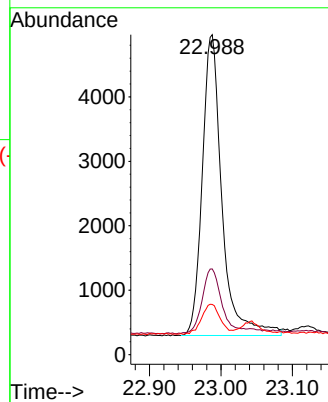
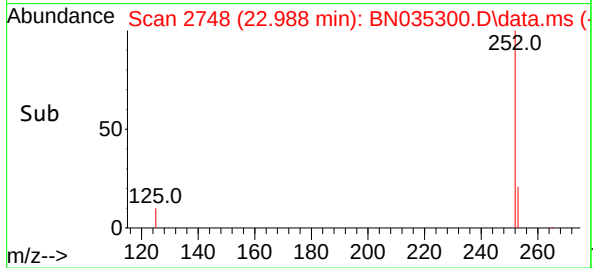
|           |       |       |      |
|-----------|-------|-------|------|
| Tgt Ion:  | 252   | Resp: | 8958 |
| Ion Ratio | Lower | Upper |      |
| 252       | 100   |       |      |
| 253       | 26.8  | 22.3  | 33.5 |
| 125       | 15.7  | 15.3  | 22.9 |

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 11/27/2024

Supervised By :mohammad ahmed 11/27/2024



#40

Dibenzo(a,h)anthracene

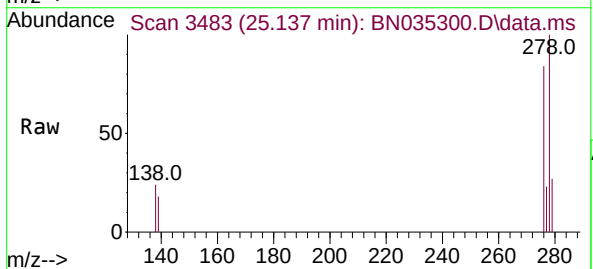
Concen: 0.386 ng

RT: 25.137 min Scan# 3483

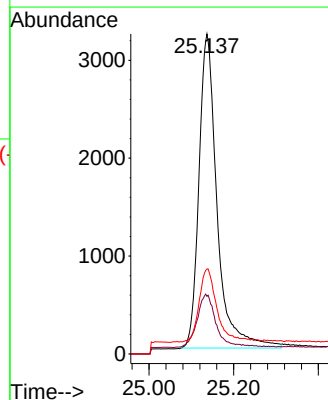
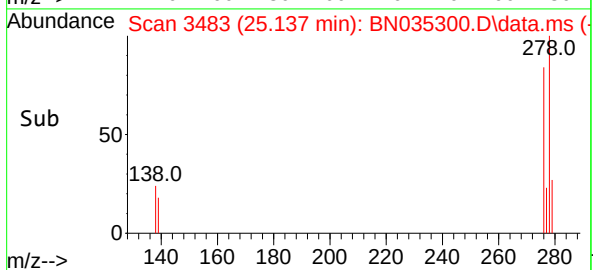
Delta R.T. -0.002 min

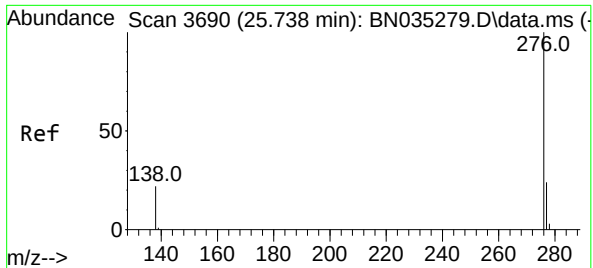
Lab File: BN035300.D

Acq: 26 Nov 2024 03:14



|           |       |       |      |
|-----------|-------|-------|------|
| Tgt Ion:  | 278   | Resp: | 9558 |
| Ion Ratio | Lower | Upper |      |
| 278       | 100   |       |      |
| 139       | 18.0  | 17.0  | 25.6 |
| 279       | 26.6  | 23.0  | 34.4 |





#41

Benzo(g,h,i)perylene

Concen: 0.372 ng

RT: 25.736 min Scan# 30

Delta R.T. -0.002 min

Lab File: BN035300.D

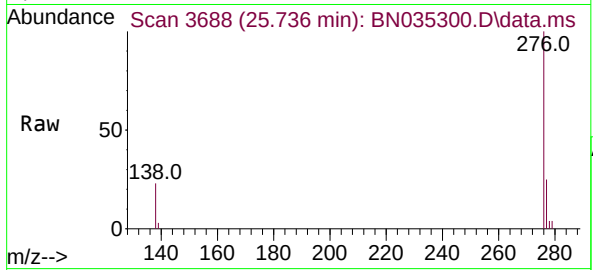
Acq: 26 Nov 2024 03:14

Instrument :

BNA\_N

ClientSampleId :

SSTDCCC0.4EC



Tgt Ion:276 Resp: 1064

Ion Ratio Lower Upper

276 100

277 25.2 21.1 31.7

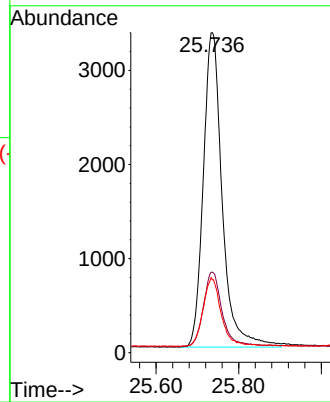
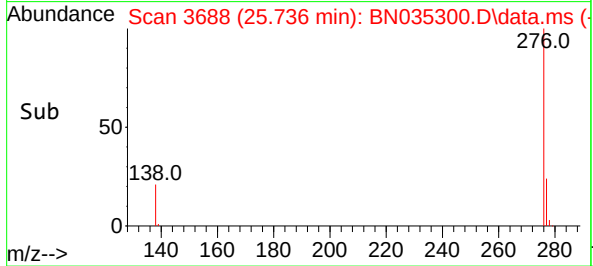
138 22.7 19.8 29.8

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 11/27/2024

Supervised By :mohammad ahmed 11/27/2024



Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN112524\  
 Data File : BN035300.D  
 Acq On : 26 Nov 2024 03:14  
 Operator : RC/JU  
 Sample : SSTDCCC0.4  
 Misc :  
 ALS Vial : 76 Sample Multiplier: 1

Instrument :  
 BNA\_N  
 LabSampleId :  
 SSTDCCC0.4

Quant Time: Nov 26 04:38:57 2024  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\8270-SIM-BN112524.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Tue Nov 26 02:36:08 2024  
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min  
 Max. RRF Dev : 25% Max. Rel. Area : 150%

|         | Compound                   | AvgRF  | CCRF   | %Dev   | Area% | Dev(min) |
|---------|----------------------------|--------|--------|--------|-------|----------|
| 1 I     | 1,4-Dichlorobenzene-d4     | 1.000  | 1.000  | 0.0    | 173#  | 0.00     |
| 2       | 1,4-Dioxane                | 0.288  | 0.391  | -35.8# | 236#  | 0.00     |
| 3       | n-Nitrosodimethylamine     | 0.298  | 0.288  | 3.4    | 176#  | 0.00     |
| 4 S     | 2-Fluorophenol             | 0.756  | 1.011  | -33.7# | 222#  | 0.00     |
| 5 S     | Phenol-d6                  | 1.056  | 1.202  | -13.8  | 188#  | 0.00     |
| 6       | bis(2-Chloroethyl)ether    | 0.889  | 0.966  | -8.7   | 187#  | 0.00     |
| 7 I     | Naphthalene-d8             | 1.000  | 1.000  | 0.0    | 164#  | 0.00     |
| 8 S     | Nitrobenzene-d5            | 0.324  | 0.212  | 34.6#  | 101   | 0.00     |
| 9       | Naphthalene                | 1.110  | 1.061  | 4.4    | 160#  | -0.01    |
| 10      | Hexachlorobutadiene        | 0.312  | 0.250  | 19.9   | 132   | -0.01    |
| 11 SURR | 2-Methylnaphthalene-d10    | 0.560  | 0.555  | 0.9    | 169#  | 0.00     |
| 12      | 2-Methylnaphthalene        | 0.726  | 0.673  | 7.3    | 162#  | 0.00     |
| 13 I    | Acenaphthene-d10           | 1.000  | 1.000  | 0.0    | 158#  | 0.00     |
| 14 S    | 2,4,6-Tribromophenol       | 0.204  | 0.208  | -2.0   | 182#  | 0.00     |
| 15 S    | 2-Fluorobiphenyl           | 0.221  | 0.171  | 22.6   | 110   | 0.00     |
| 16      | Acenaphthylene             | 2.013  | 1.650  | 18.0   | 138   | 0.00     |
| 17      | Acenaphthene               | 1.267  | 1.103  | 12.9   | 148   | 0.00     |
| 18      | Fluorene                   | 1.777  | 1.411  | 20.6   | 136   | 0.00     |
| 19 I    | Phenanthrene-d10           | 1.000  | 1.000  | 0.0    | 130   | 0.00     |
| 20      | 4,6-Dinitro-2-methylphenol | 0.041  | 0.036  | 12.2   | 137   | 0.00     |
| 21      | 4-Bromophenyl-phenylether  | 0.254  | 0.250  | 1.6    | 138   | 0.00     |
| 22      | Hexachlorobenzene          | 0.363  | 0.304  | 16.3   | 112   | 0.00     |
| 23      | Atrazine                   | 0.107  | 0.115  | -7.5   | 150   | 0.00     |
| 24      | Pentachlorophenol          | 0.087  | 0.098  | -12.6  | 161#  | 0.00     |
| 25      | Phenanthrene               | 1.229  | 1.093  | 11.1   | 125   | 0.00     |
| 26      | Anthracene                 | 1.055  | 0.942  | 10.7   | 134   | 0.00     |
| 27 SURR | Fluoranthene-d10           | 1.070  | 0.944  | 11.8   | 127   | 0.00     |
| 28      | Fluoranthene               | 1.550  | 1.236  | 20.3   | 120   | 0.00     |
| 29 I    | Chrysene-d12               | 1.000  | 1.000  | 0.0    | 149   | 0.00     |
| 30      | Pyrene                     | 14.551 | 12.765 | 12.3   | 124   | 0.00     |
| 31 S    | Terphenyl-d14              | 7.392  | 6.672  | 9.7    | 137   | 0.00     |
| 32      | Benzo(a)anthracene         | 13.920 | 11.897 | 14.5   | 128   | 0.00     |
| 33      | Chrysene                   | 13.920 | 11.897 | 14.5   | 128   | 0.00     |
| 34      | Bis(2-ethylhexyl)phthalate | 0.765  | 0.684  | 10.6   | 112   | 0.00     |
| 35 I    | Perylene-d12               | 1.000  | 1.000  | 0.0    | 171#  | 0.00     |
| 36      | Indeno(1,2,3-cd)pyrene     | 1.638  | 1.541  | 5.9    | 173#  | 0.00     |
| 37      | Benzo(b)fluoranthene       | 1.738  | 1.311  | 24.6   | 154#  | 0.00     |
| 38      | Benzo(k)fluoranthene       | 1.839  | 1.441  | 21.6   | 151#  | 0.00     |
| 39 C    | Benzo(a)pyrene             | 1.329  | 1.120  | 15.7   | 167#  | 0.00     |
| 40      | Dibenzo(a,h)anthracene     | 1.238  | 1.195  | 3.5    | 184#  | 0.00     |
| 41      | Benzo(g,h,i)perylene       | 1.432  | 1.331  | 7.1    | 183#  | 0.00     |

(#) = Out of Range

SPCC's out = 0 CCC's out = 0



Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN112524\  
 Data File : BN035300.D  
 Acq On : 26 Nov 2024 03:14  
 Operator : RC/JU  
 Sample : SSTDCCC0.4  
 Misc :  
 ALS Vial : 76 Sample Multiplier: 1

Instrument :  
 BNA\_N  
 LabSampleId :  
 SSTDCCC0.4

Quant Time: Nov 26 04:38:57 2024  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\8270-SIM-BN112524.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Tue Nov 26 02:36:08 2024  
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min  
 Max. RRF Dev : 25% Max. Rel. Area : 150%

|         | Compound                   | Amount | Calc. | %Dev   | Area% | Dev(min) |
|---------|----------------------------|--------|-------|--------|-------|----------|
| 1 I     | 1,4-Dichlorobenzene-d4     | 0.400  | 0.400 | 0.0    | 173   | 0.00     |
| 2       | 1,4-Dioxane                | 0.400  | 0.544 | -36.0# | 236   | 0.00     |
| 3       | n-Nitrosodimethylamine     | 0.400  | 0.387 | 3.3    | 176   | 0.00     |
| 4 S     | 2-Fluorophenol             | 0.400  | 0.535 | -33.8# | 222   | 0.00     |
| 5 S     | Phenol-d6                  | 0.400  | 0.455 | -13.7  | 188   | 0.00     |
| 6       | bis(2-Chloroethyl)ether    | 0.400  | 0.435 | -8.7   | 187   | 0.00     |
| 7 I     | Naphthalene-d8             | 0.400  | 0.400 | 0.0    | 164   | 0.00     |
| 8 S     | Nitrobenzene-d5            | 0.400  | 0.262 | 34.5#  | 101   | 0.00     |
| 9       | Naphthalene                | 0.400  | 0.382 | 4.5    | 160   | -0.01    |
| 10      | Hexachlorobutadiene        | 0.400  | 0.321 | 19.8   | 132   | -0.01    |
| 11 SURR | 2-Methylnaphthalene-d10    | 0.400  | 0.396 | 1.0    | 169   | 0.00     |
| 12      | 2-Methylnaphthalene        | 0.400  | 0.371 | 7.3    | 162   | 0.00     |
| 13 I    | Acenaphthene-d10           | 0.400  | 0.400 | 0.0    | 158   | 0.00     |
| 14 S    | 2,4,6-Tribromophenol       | 0.400  | 0.408 | -2.0   | 182   | 0.00     |
| 15 S    | 2-Fluorobiphenyl           | 0.400  | 0.310 | 22.5   | 110   | 0.00     |
| 16      | Acenaphthylene             | 0.400  | 0.328 | 18.0   | 138   | 0.00     |
| 17      | Acenaphthene               | 0.400  | 0.348 | 13.0   | 148   | 0.00     |
| 18      | Fluorene                   | 0.400  | 0.318 | 20.5   | 136   | 0.00     |
| 19 I    | Phenanthrene-d10           | 0.400  | 0.400 | 0.0    | 130   | 0.00     |
| 20      | 4,6-Dinitro-2-methylphenol | 0.400  | 0.436 | -9.0   | 137   | 0.00     |
| 21      | 4-Bromophenyl-phenylether  | 0.400  | 0.394 | 1.5    | 138   | 0.00     |
| 22      | Hexachlorobenzene          | 0.400  | 0.335 | 16.3   | 112   | 0.00     |
| 23      | Atrazine                   | 0.400  | 0.431 | -7.7   | 150   | 0.00     |
| 24      | Pentachlorophenol          | 0.400  | 0.450 | -12.5  | 161   | 0.00     |
| 25      | Phenanthrene               | 0.400  | 0.356 | 11.0   | 125   | 0.00     |
| 26      | Anthracene                 | 0.400  | 0.357 | 10.8   | 134   | 0.00     |
| 27 SURR | Fluoranthene-d10           | 0.400  | 0.353 | 11.8   | 127   | 0.00     |
| 28      | Fluoranthene               | 0.400  | 0.319 | 20.3   | 120   | 0.00     |
| 29 I    | Chrysene-d12               | 0.400  | 0.400 | 0.0    | 149   | 0.00     |
| 30      | Pyrene                     | 0.400  | 0.351 | 12.3   | 124   | 0.00     |
| 31 S    | Terphenyl-d14              | 0.400  | 0.361 | 9.8    | 137   | 0.00     |
| 32      | Benzo(a)anthracene         | 0.400  | 0.342 | 14.5   | 128   | 0.00     |
| 33      | Chrysene                   | 0.400  | 0.342 | 14.5   | 128   | 0.00     |
| 34      | Bis(2-ethylhexyl)phthalate | 0.400  | 0.358 | 10.5   | 112   | 0.00     |
| 35 I    | Perylene-d12               | 0.400  | 0.400 | 0.0    | 171   | 0.00     |
| 36      | Indeno(1,2,3-cd)pyrene     | 0.400  | 0.376 | 6.0    | 173   | 0.00     |
| 37      | Benzo(b)fluoranthene       | 0.400  | 0.302 | 24.5   | 154   | 0.00     |
| 38      | Benzo(k)fluoranthene       | 0.400  | 0.313 | 21.8   | 151   | 0.00     |
| 39 C    | Benzo(a)pyrene             | 0.400  | 0.337 | 15.8   | 167   | 0.00     |
| 40      | Dibenzo(a,h)anthracene     | 0.400  | 0.386 | 3.5    | 184   | 0.00     |
| 41      | Benzo(g,h,i)perylene       | 0.400  | 0.372 | 7.0    | 183   | 0.00     |

(#) = Out of Range

SPCC's out = 0 CCC's out = 0



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

7C

## SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: TETR06

Lab Code: CHEM Case No.: P4959 SAS No.: P4959 SDG No.: P4959

Instrument ID: BNA\_N Calibration Date/Time: 11/28/2024 04:51

Lab File ID: BN035368.D Init. Calib. Date(s): 11/27/2024 11/27/2024

EPA Sample No.: SSTDCCC0.4 Init. Calib. Time(s): 15:34 19:09

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

| COMPOUND                | RRF   | RRF0.4 | MIN<br>RRF | %D   | MAX%D |
|-------------------------|-------|--------|------------|------|-------|
| 2-Methylnaphthalene-d10 | 0.626 | 0.617  |            | -1.4 | 20.0  |
| Fluoranthene-d10        | 1.134 | 1.065  |            | -6.1 | 20.0  |
| 2-Fluorophenol          | 1.001 | 1.030  |            | 2.9  | 20.0  |
| Phenol-d6               | 1.204 | 1.273  |            | 5.7  | 20.0  |
| Nitrobenzene-d5         | 0.244 | 0.241  |            | -1.2 | 20.0  |
| 2-Fluorobiphenyl        | 1.512 | 1.520  |            | 0.5  | 20.0  |
| 2,4,6-Tribromophenol    | 0.284 | 0.280  |            | -1.4 | 20.0  |
| Terphenyl-d14           | 0.789 | 0.788  |            | -0.1 | 20.0  |
| 1,4-Dioxane             | 0.382 | 0.375  |            | -1.8 | 20.0  |

All other compounds must meet a minimum RRF of 0.010.

Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN112724\  
 Data File : BN035368.D  
 Acq On : 28 Nov 2024 04:51  
 Operator : RC/JU  
 Sample : SSTDCCC0.4  
 Misc :  
 ALS Vial : 22 Sample Multiplier: 1

**Instrument :**

BNA\_N

**ClientSampleId :**

SSTDCCC0.4

**Manual Integrations****APPROVED**

Reviewed By :Yogesh Patel 11/29/2024

Supervised By :mohammad ahmed 11/29/2024

Quant Time: Nov 28 05:19:23 2024

Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\8270-SIM-BN112724.M

Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

QLast Update : Wed Nov 27 23:03:24 2024

Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc  | Units | Dev(Min) |
|-------------------------------|--------|------|----------|-------|-------|----------|
| -----                         |        |      |          |       |       |          |
| Internal Standards            |        |      |          |       |       |          |
| 1) 1,4-Dichlorobenzene-d4     | 7.308  | 152  | 2051     | 0.400 | ng    | 0.00     |
| 7) Naphthalene-d8             | 10.052 | 136  | 5360     | 0.400 | ng    | 0.00     |
| 13) Acenaphthene-d10          | 13.967 | 164  | 3908     | 0.400 | ng    | 0.00     |
| 19) Phenanthrene-d10          | 16.723 | 188  | 9758     | 0.400 | ng    | #-0.01   |
| 29) Chrysene-d12              | 20.974 | 240  | 9496     | 0.400 | ng    | 0.00     |
| 35) Perylene-d12              | 23.067 | 264  | 10416    | 0.400 | ng    | 0.00     |
|                               |        |      |          |       |       |          |
| System Monitoring Compounds   |        |      |          |       |       |          |
| 4) 2-Fluorophenol             | 4.968  | 112  | 2113     | 0.412 | ng    | 0.00     |
| 5) Phenol-d6                  | 6.513  | 99   | 2611     | 0.423 | ng    | 0.00     |
| 8) Nitrobenzene-d5            | 8.440  | 82   | 1292m    | 0.395 | ng    | 0.00     |
| 11) 2-Methylnaphthalene-d10   | 11.656 | 152  | 3309     | 0.394 | ng    | 0.00     |
| 14) 2,4,6-Tribromophenol      | 15.475 | 330  | 1093     | 0.394 | ng    | 0.00     |
| 15) 2-Fluorobiphenyl          | 12.574 | 172  | 5940     | 0.402 | ng    | 0.00     |
| 27) Fluoranthene-d10          | 18.785 | 212  | 10388    | 0.376 | ng    | 0.00     |
| 31) Terphenyl-d14             | 19.412 | 244  | 7482     | 0.399 | ng    | 0.00     |
|                               |        |      |          |       |       |          |
| Target Compounds              |        |      |          |       |       | Qvalue   |
| 2) 1,4-Dioxane                | 3.003  | 88   | 770      | 0.393 | ng    | 100      |
| 3) n-Nitrosodimethylamine     | 3.292  | 42   | 671      | 0.411 | ng    | # 98     |
| 6) bis(2-Chloroethyl)ether    | 6.759  | 93   | 2024     | 0.390 | ng    | 100      |
| 9) Naphthalene                | 10.105 | 128  | 5590     | 0.395 | ng    | 100      |
| 10) Hexachlorobutadiene       | 10.404 | 225  | 1343     | 0.412 | ng    | # 100    |
| 12) 2-Methylnaphthalene       | 11.732 | 142  | 4014     | 0.397 | ng    | 99       |
| 16) Acenaphthylene            | 13.679 | 152  | 6370     | 0.388 | ng    | 99       |
| 17) Acenaphthene              | 14.031 | 154  | 4272     | 0.392 | ng    | 100      |
| 18) Fluorene                  | 15.026 | 166  | 6118     | 0.392 | ng    | 99       |
| 20) 4,6-Dinitro-2-methylph... | 15.132 | 198  | 349      | 0.364 | ng    | 98       |
| 21) 4-Bromophenyl-phenylether | 15.941 | 248  | 2214     | 0.388 | ng    | 99       |
| 22) Hexachlorobenzene         | 16.040 | 284  | 2712     | 0.405 | ng    | 99       |
| 23) Atrazine                  | 16.227 | 200  | 1469     | 0.362 | ng    | 98       |
| 24) Pentachlorophenol         | 16.400 | 266  | 1108     | 0.380 | ng    | 87       |
| 25) Phenanthrene              | 16.773 | 178  | 10414    | 0.389 | ng    | 100      |
| 26) Anthracene                | 16.860 | 178  | 9214     | 0.380 | ng    | 100      |
| 28) Fluoranthene              | 18.812 | 202  | 13563    | 0.375 | ng    | 100      |
| 30) Pyrene                    | 19.184 | 202  | 14155    | 0.404 | ng    | 100      |
| 32) Benzo(a)anthracene        | 20.956 | 228  | 12659    | 0.381 | ng    | 100      |
| 33) Chrysene                  | 21.009 | 228  | 13795    | 0.403 | ng    | 99       |
| 34) Bis(2-ethylhexyl)phtha... | 20.929 | 149  | 4791     | 0.365 | ng    | 100      |
| 36) Indeno(1,2,3-cd)pyrene    | 25.105 | 276  | 15947    | 0.392 | ng    | 99       |
| 37) Benzo(b)fluoranthene      | 22.453 | 252  | 16437    | 0.431 | ng    | 100      |
| 38) Benzo(k)fluoranthene      | 22.497 | 252  | 14678    | 0.391 | ng    | 99       |
| 39) Benzo(a)pyrene            | 22.980 | 252  | 11871    | 0.378 | ng    | 99       |
| 40) Dibenzo(a,h)anthracene    | 25.128 | 278  | 12541    | 0.390 | ng    | 99       |
| 41) Benzo(g,h,i)perylene      | 25.722 | 276  | 12859    | 0.383 | ng    | 98       |
| -----                         |        |      |          |       |       |          |

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

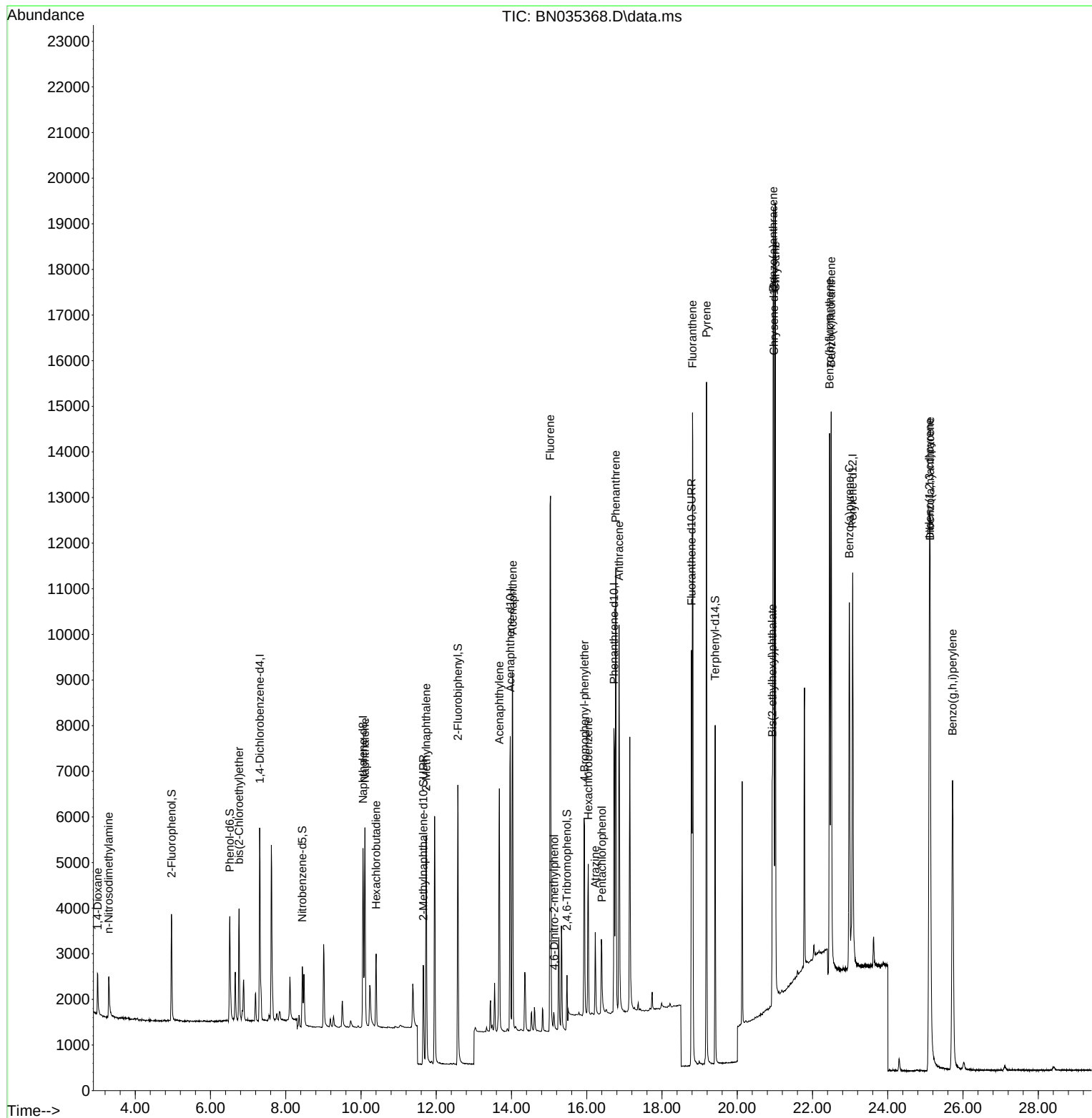
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Data File : BN035368.D  
Acq On : 28 Nov 2024 04:51  
Operator : RC/JU  
Sample : SSTDCCC0.4  
Misc :  
ALS Vial : 22 Sample Multiplier: 1

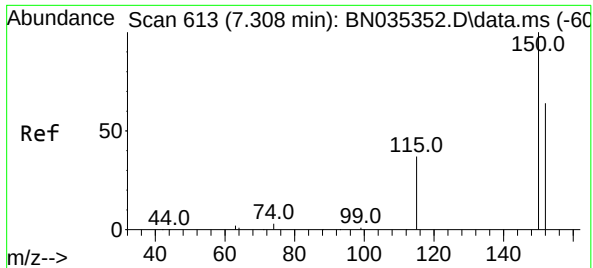
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDCCC0.4

Manual Integrations  
**APPROVED**

Reviewed By :Yogesh Patel 11/29/2024  
Supervised By :mohammad ahmed 11/29/2024

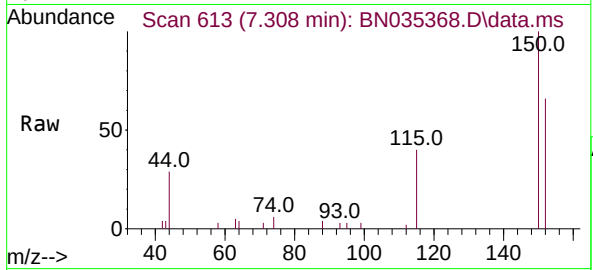
Quant Time: Nov 28 05:19:23 2024  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\8270-SIM-BN112724.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Wed Nov 27 23:03:24 2024  
Response via : Initial Calibration





#1  
1,4-Dichlorobenzene-d4  
Concen: 0.400 ng  
RT: 7.308 min Scan# 613  
Delta R.T. -0.000 min  
Lab File: BN035368.D  
Acq: 28 Nov 2024 04:51

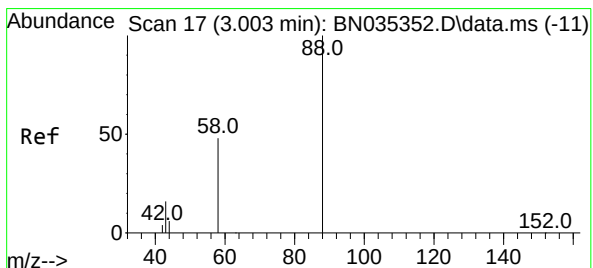
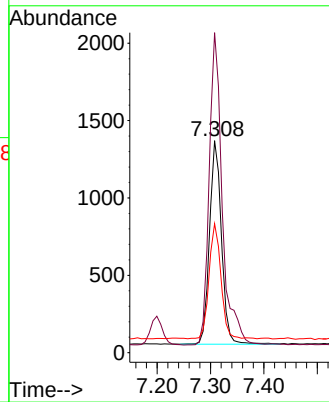
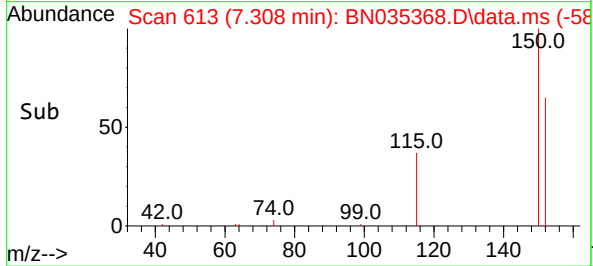
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDCCC0.4



Tgt Ion: 152 Resp: 205  
Ion Ratio Lower Upper  
152 100  
150 150.9 124.0 186.0  
115 60.8 49.6 74.4

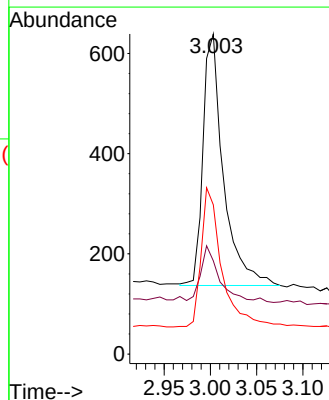
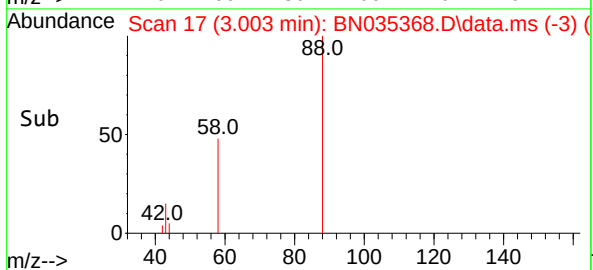
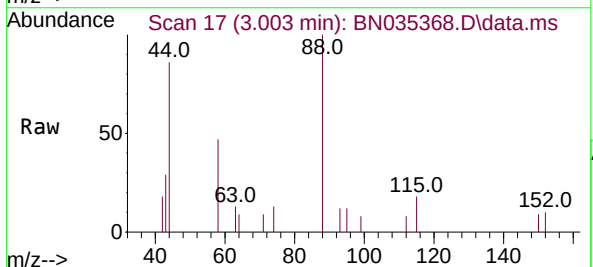
Manual Integrations  
APPROVED

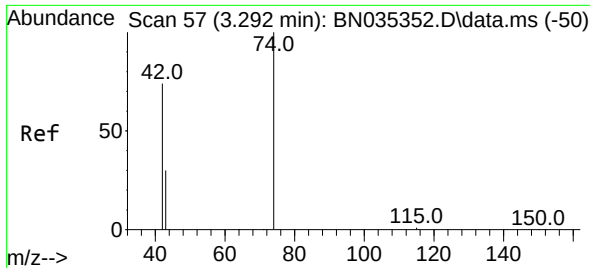
Reviewed By :Yogesh Patel 11/29/2024  
Supervised By :mohammad ahmed 11/29/2024



#2  
1,4-Dioxane  
Concen: 0.393 ng  
RT: 3.003 min Scan# 17  
Delta R.T. -0.000 min  
Lab File: BN035368.D  
Acq: 28 Nov 2024 04:51

Tgt Ion: 88 Resp: 770  
Ion Ratio Lower Upper  
88 100  
43 22.2 17.2 25.8  
58 55.6 44.5 66.7





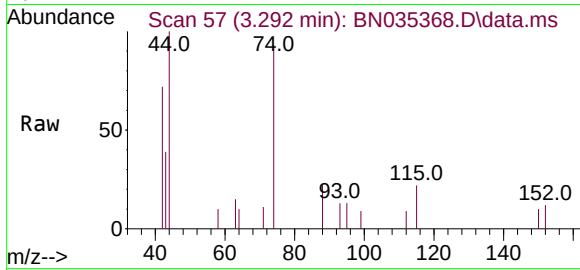
#3  
n-Nitrosodimethylamine  
Concen: 0.411 ng  
RT: 3.292 min Scan# 51  
Delta R.T. -0.000 min  
Lab File: BN035368.D  
Acq: 28 Nov 2024 04:51

Instrument :

BNA\_N

ClientSampleId :

SSTDCCC0.4



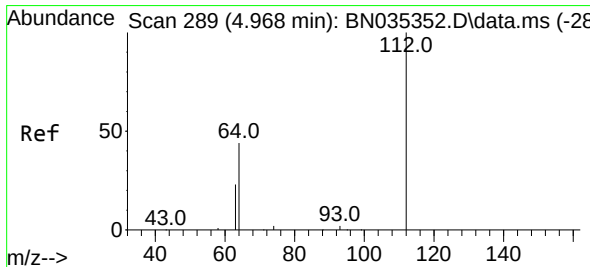
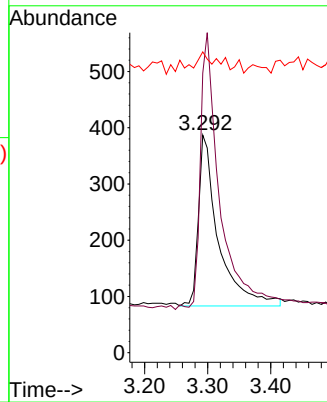
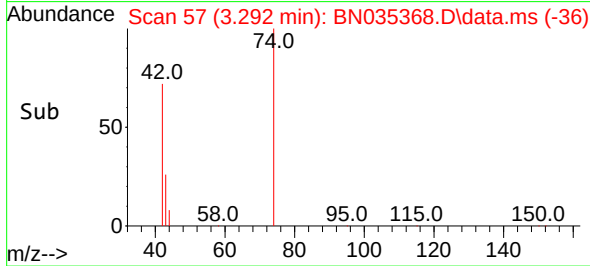
Tgt Ion: 42 Resp: 67  
Ion Ratio Lower Upper  
42 100  
74 158.9 124.9 187.3  
44 4.3 2.2 3.4

Manual Integrations

APPROVED

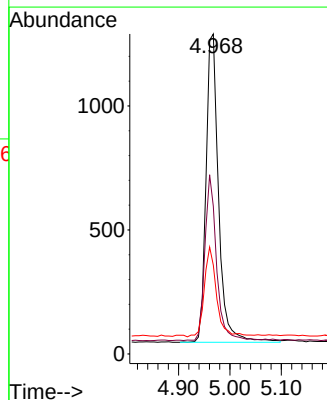
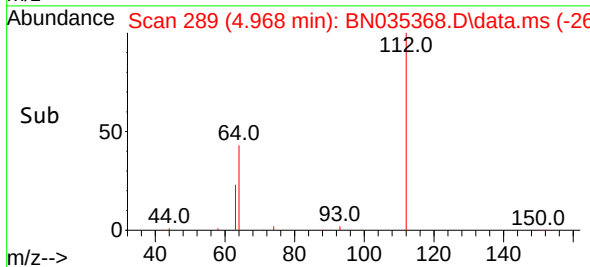
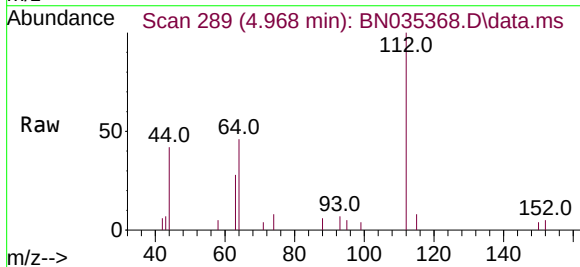
Reviewed By :Yogesh Patel 11/29/2024

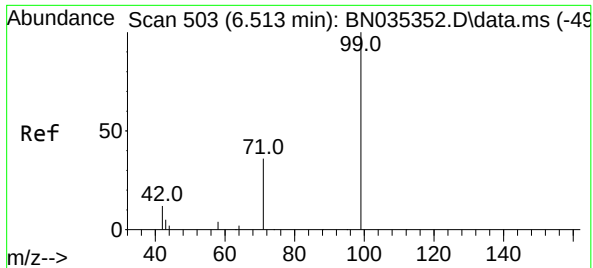
Supervised By :mohammad ahmed 11/29/2024



#4  
2-Fluorophenol  
Concen: 0.412 ng  
RT: 4.968 min Scan# 289  
Delta R.T. -0.000 min  
Lab File: BN035368.D  
Acq: 28 Nov 2024 04:51

Tgt Ion:112 Resp: 2113  
Ion Ratio Lower Upper  
112 100  
64 49.9 39.8 59.8  
63 28.7 21.0 31.6





#5  
Phenol-d6  
Concen: 0.423 ng  
RT: 6.513 min Scan# 503  
Delta R.T. -0.000 min  
Lab File: BN035368.D  
Acq: 28 Nov 2024 04:51

Instrument :

BNA\_N

ClientSampleId :

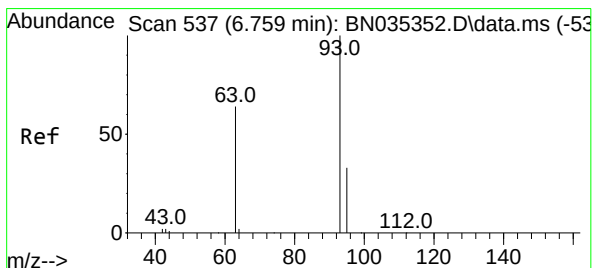
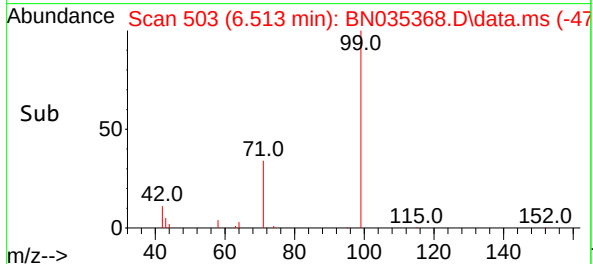
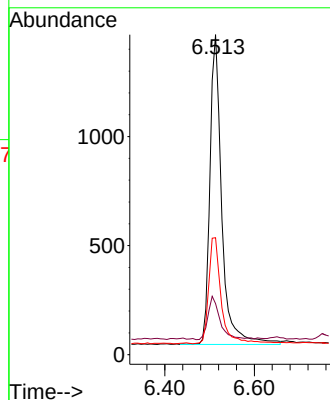
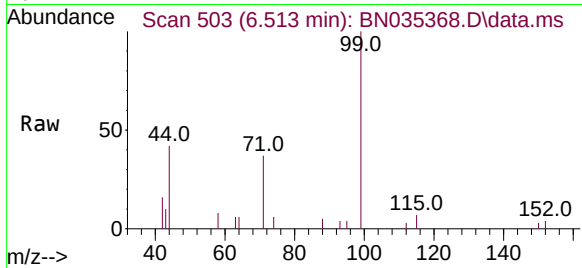
SSTDCCC0.4

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 99      | 100   |       |       |
| 42      | 14.4  | 11.4  | 17.2  |
| 71      | 36.8  | 29.3  | 43.9  |

Manual Integrations

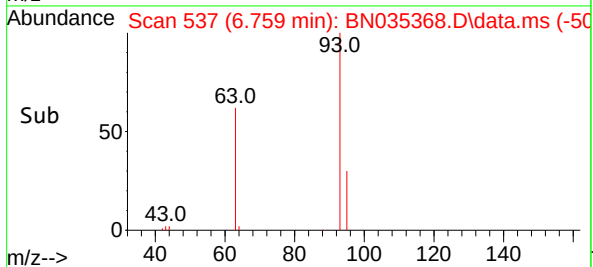
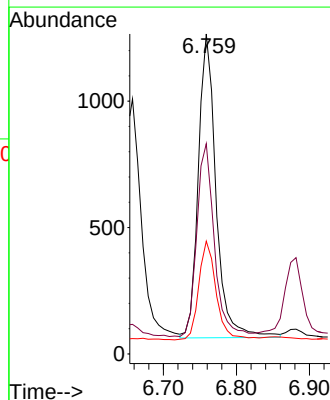
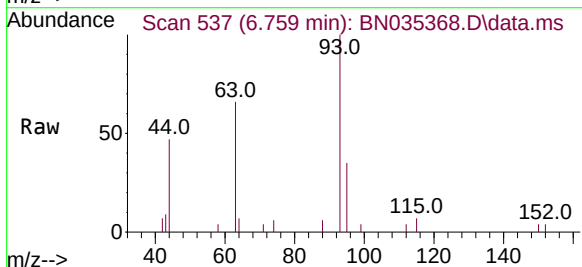
APPROVED

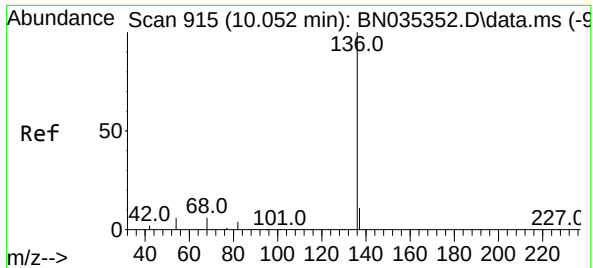
Reviewed By :Yogesh Patel 11/29/2024  
Supervised By :mohammad ahmed 11/29/2024



#6  
bis(2-Chloroethyl)ether  
Concen: 0.390 ng  
RT: 6.759 min Scan# 537  
Delta R.T. -0.000 min  
Lab File: BN035368.D  
Acq: 28 Nov 2024 04:51

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 93      | 100   |       |       |
| 63      | 62.9  | 50.4  | 75.6  |
| 95      | 32.0  | 25.7  | 38.5  |





#7  
Naphthalene-d8  
Concen: 0.400 ng  
RT: 10.052 min Scan# 915  
Delta R.T. -0.000 min  
Lab File: BN035368.D  
Acq: 28 Nov 2024 04:51

Instrument :

BNA\_N

ClientSampleId :

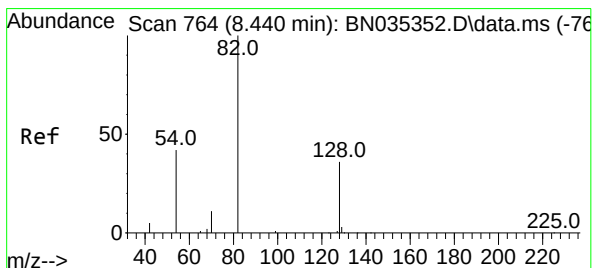
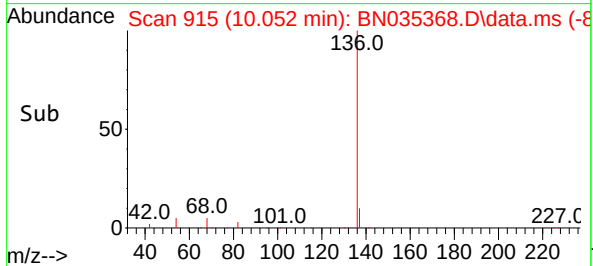
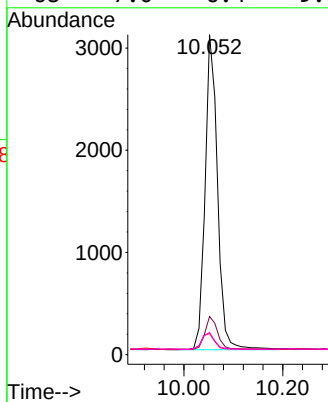
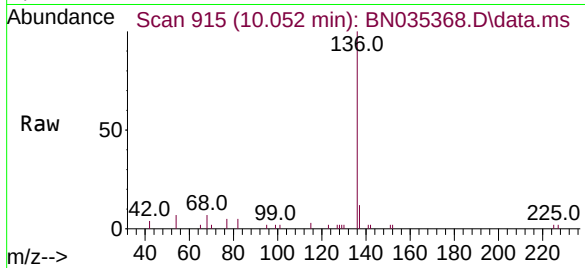
SSTDCCC0.4

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 136     | 100   |       |       |
| 137     | 11.9  | 10.2  | 15.2  |
| 54      | 6.6   | 6.1   | 9.1   |
| 68      | 7.0   | 6.4   | 9.6   |

Manual Integrations

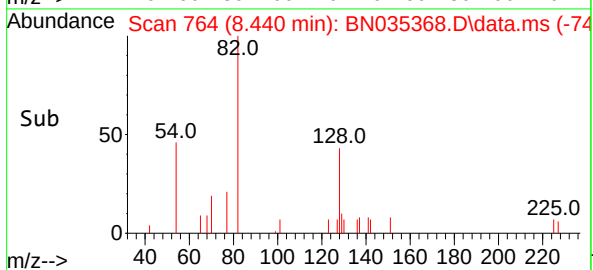
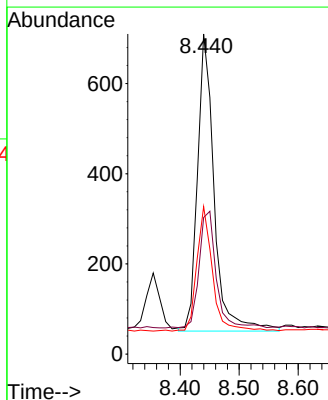
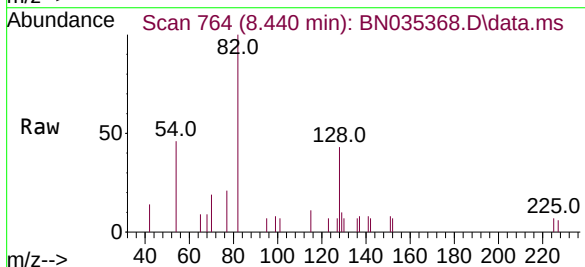
APPROVED

Reviewed By :Yogesh Patel 11/29/2024  
Supervised By :mohammad ahmed 11/29/2024

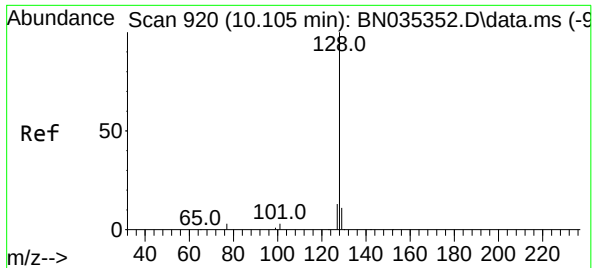


#8  
Nitrobenzene-d5  
Concen: 0.395 ng m  
RT: 8.440 min Scan# 764  
Delta R.T. -0.000 min  
Lab File: BN035368.D  
Acq: 28 Nov 2024 04:51

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 82      | 100   |       |       |
| 128     | 42.7  | 33.4  | 50.0  |
| 54      | 46.1  | 36.7  | 55.1  |

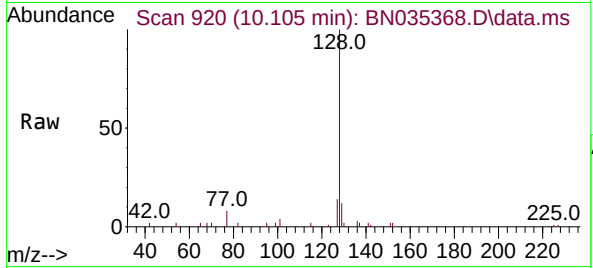






#9  
Naphthalene  
Concen: 0.395 ng  
RT: 10.105 min Scan# 912  
Delta R.T. -0.000 min  
Lab File: BN035368.D  
Acq: 28 Nov 2024 04:51

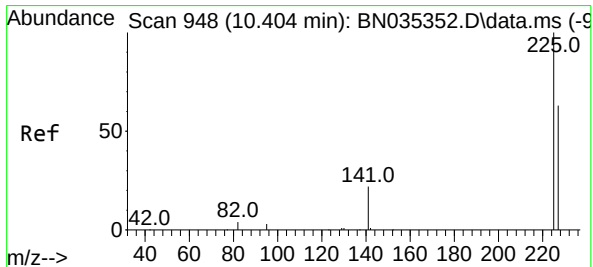
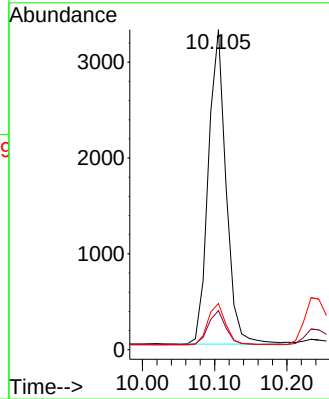
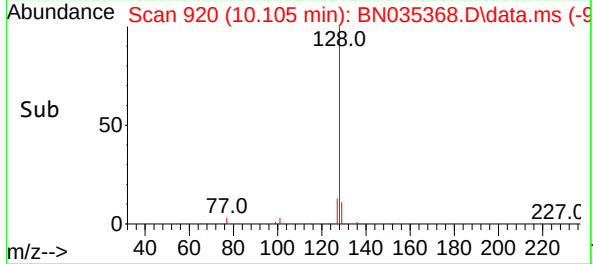
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDCCC0.4



Tgt Ion:128 Resp: 5590  
Ion Ratio Lower Upper  
128 100  
129 12.2 9.8 14.6  
127 14.4 11.4 17.2

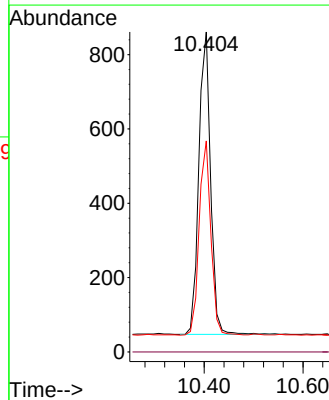
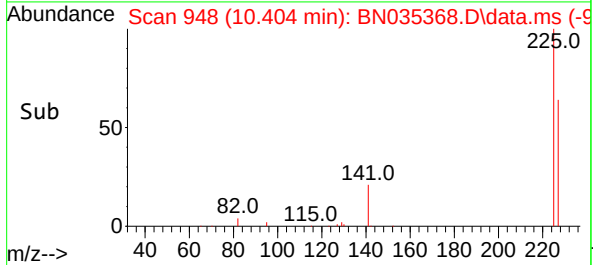
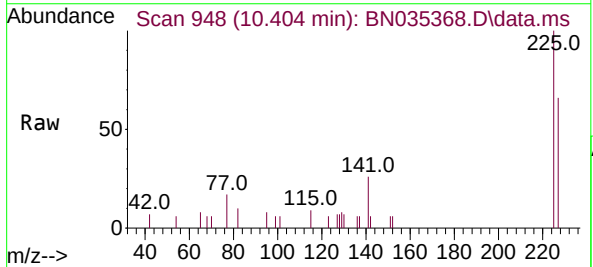
Manual Integrations  
**APPROVED**

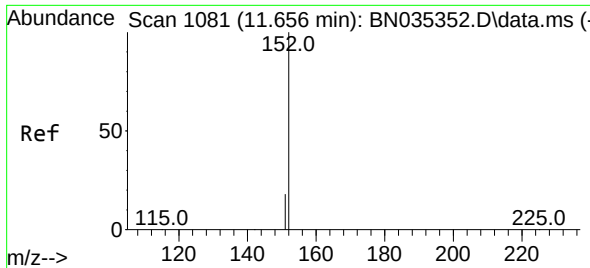
Reviewed By :Yogesh Patel 11/29/2024  
Supervised By :mohammad ahmed 11/29/2024



#10  
Hexachlorobutadiene  
Concen: 0.412 ng  
RT: 10.404 min Scan# 948  
Delta R.T. -0.000 min  
Lab File: BN035368.D  
Acq: 28 Nov 2024 04:51

Tgt Ion:225 Resp: 1343  
Ion Ratio Lower Upper  
225 100  
223 0.0 0.0 0.0  
227 63.8 51.3 76.9





#11  
2-Methylnaphthalene-d10  
Concen: 0.394 ng  
RT: 11.656 min Scan# 1081  
Delta R.T. -0.000 min  
Lab File: BN035368.D  
Acq: 28 Nov 2024 04:51

Instrument :

BNA\_N

ClientSampleId :

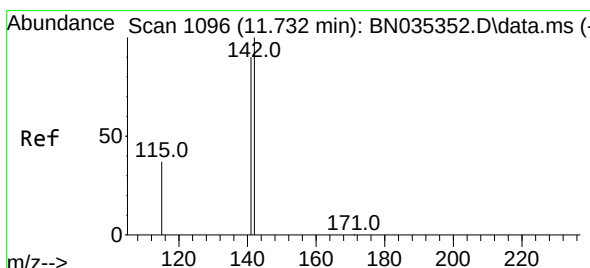
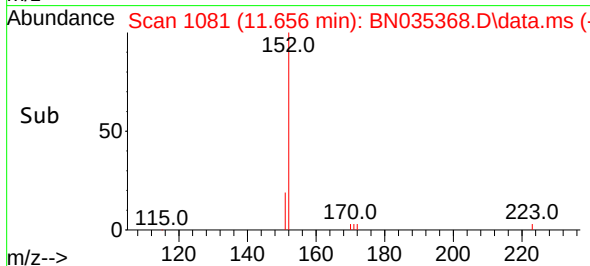
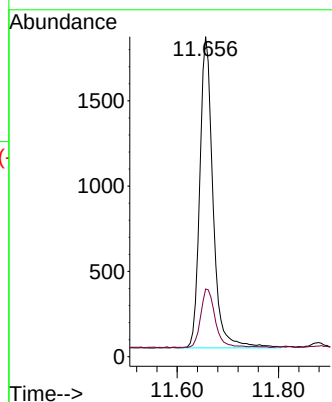
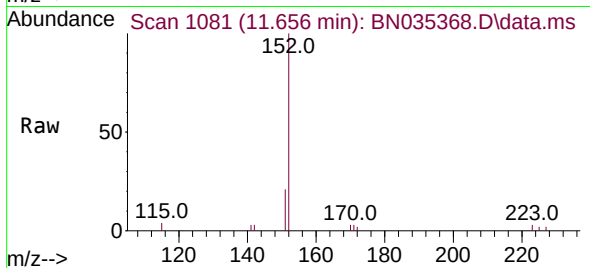
SSTDCCC0.4

Tgt Ion:152 Resp: 3309  
Ion Ratio Lower Upper  
152 100  
151 20.4 16.6 25.0

Manual Integrations

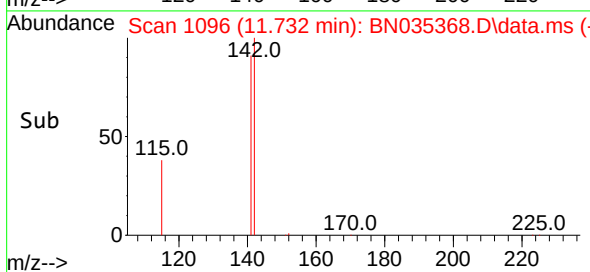
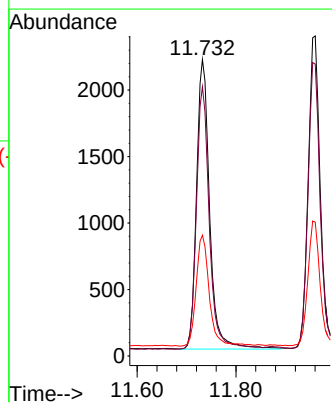
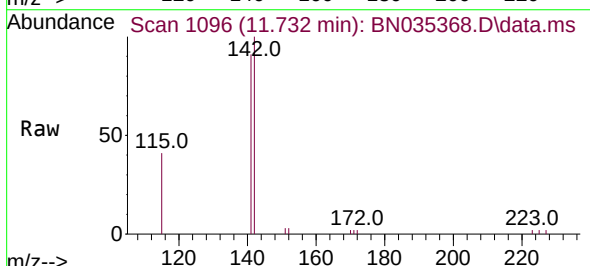
APPROVED

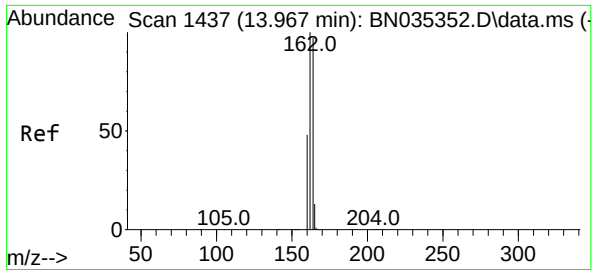
Reviewed By :Yogesh Patel 11/29/2024  
Supervised By :mohammad ahmed 11/29/2024



#12  
2-Methylnaphthalene  
Concen: 0.397 ng  
RT: 11.732 min Scan# 1096  
Delta R.T. -0.000 min  
Lab File: BN035368.D  
Acq: 28 Nov 2024 04:51

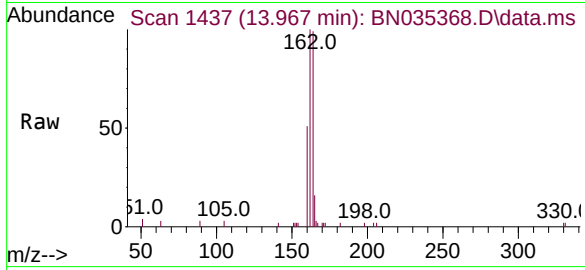
Tgt Ion:142 Resp: 4014  
Ion Ratio Lower Upper  
142 100  
141 90.8 72.2 108.4  
115 40.7 31.4 47.0





#13  
Acenaphthene-d10  
Concen: 0.400 ng  
RT: 13.967 min Scan# 1437  
Delta R.T. -0.000 min  
Lab File: BN035368.D  
Acq: 28 Nov 2024 04:51

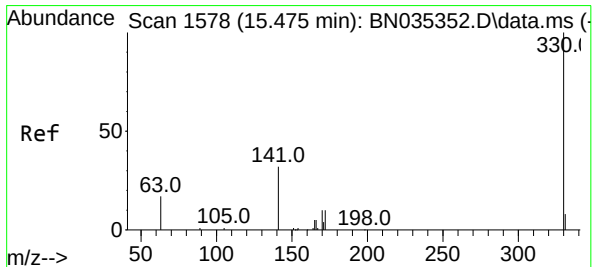
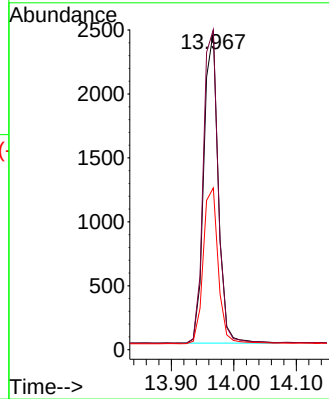
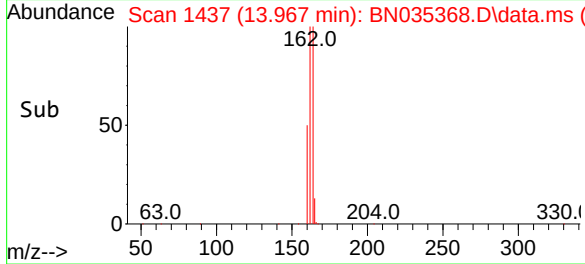
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDCCC0.4



Tgt Ion:164 Resp: 3908  
Ion Ratio Lower Upper  
164 100  
162 100.5 82.2 123.2  
160 50.8 40.1 60.1

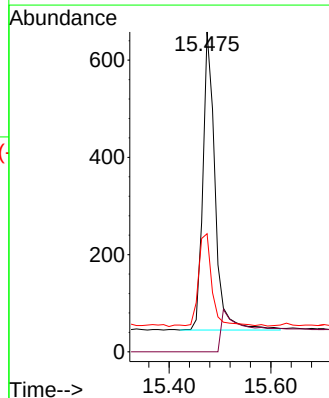
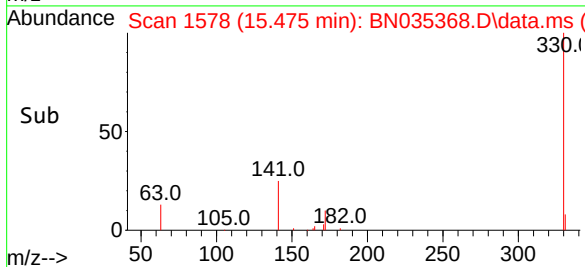
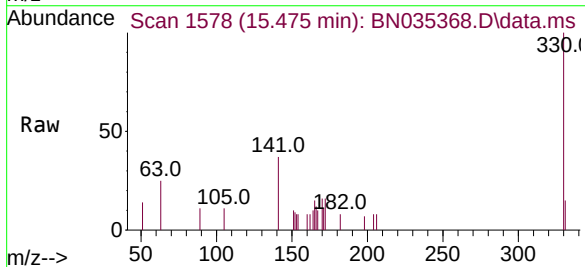
Manual Integrations  
**APPROVED**

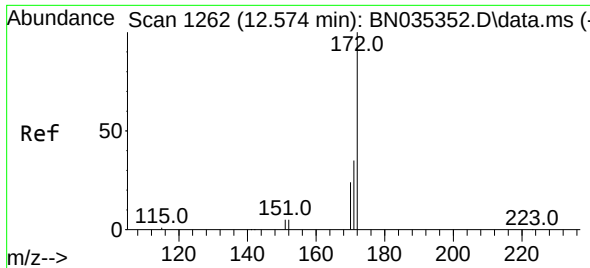
Reviewed By :Yogesh Patel 11/29/2024  
Supervised By :mohammad ahmed 11/29/2024



#14  
2,4,6-Tribromophenol  
Concen: 0.394 ng  
RT: 15.475 min Scan# 1578  
Delta R.T. -0.000 min  
Lab File: BN035368.D  
Acq: 28 Nov 2024 04:51

Tgt Ion:330 Resp: 1093  
Ion Ratio Lower Upper  
330 100  
332 0.0 0.0 0.0  
141 35.1 26.6 40.0





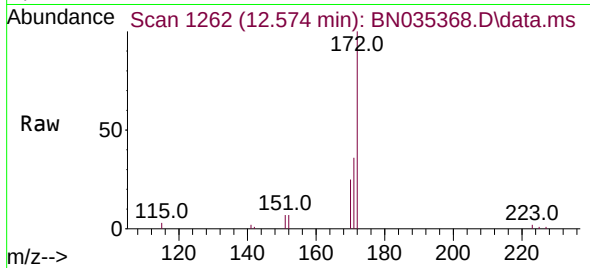
#15  
2-Fluorobiphenyl  
Concen: 0.402 ng  
RT: 12.574 min Scan# 11  
Delta R.T. -0.000 min  
Lab File: BN035368.D  
Acq: 28 Nov 2024 04:51

Instrument :

BNA\_N

ClientSampleId :

SSTDCCC0.4



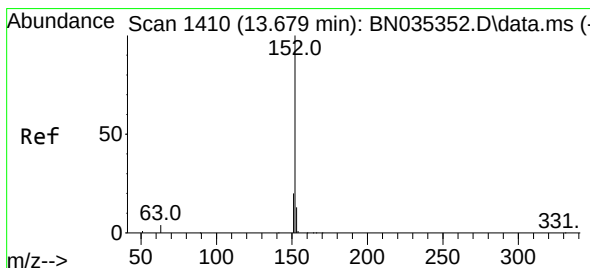
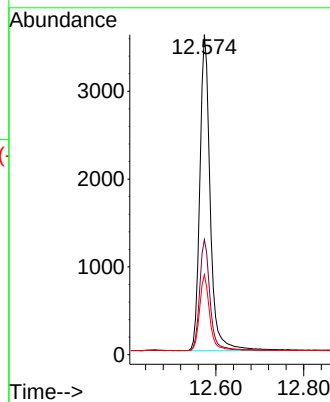
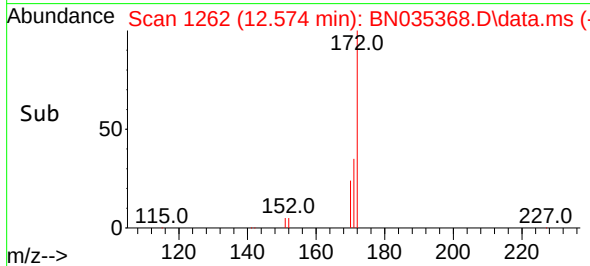
Tgt Ion:172 Resp: 5940  
Ion Ratio Lower Upper  
172 100  
171 36.0 29.0 43.4  
170 25.0 19.8 29.8

Manual Integrations

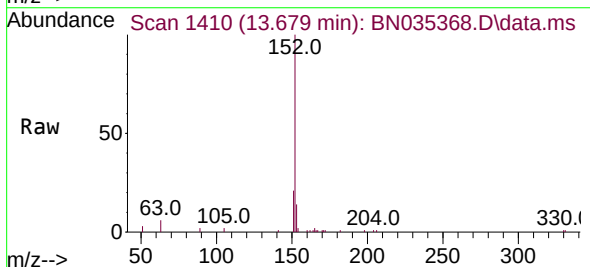
APPROVED

Reviewed By :Yogesh Patel 11/29/2024

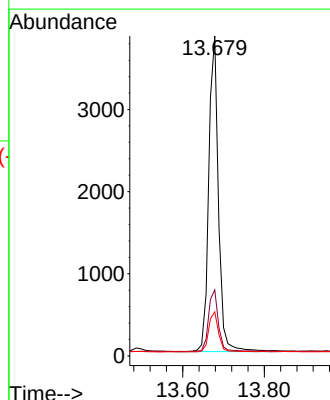
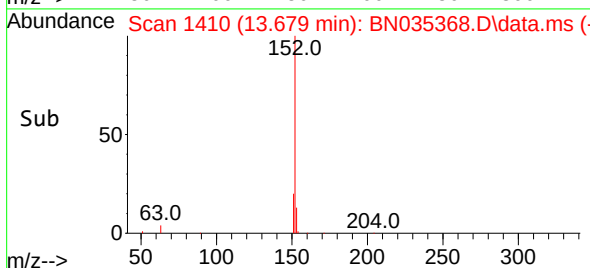
Supervised By :mohammad ahmed 11/29/2024

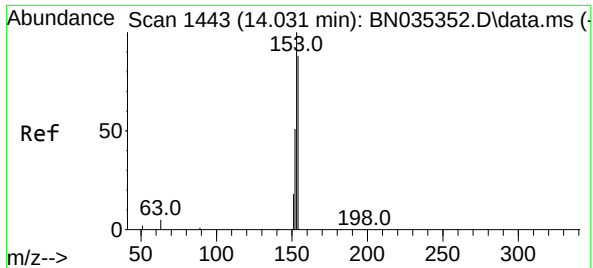


#16  
Acenaphthylene  
Concen: 0.388 ng  
RT: 13.679 min Scan# 1410  
Delta R.T. -0.000 min  
Lab File: BN035368.D  
Acq: 28 Nov 2024 04:51



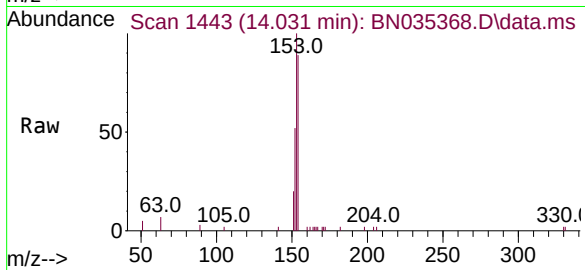
Tgt Ion:152 Resp: 6370  
Ion Ratio Lower Upper  
152 100  
151 19.7 16.2 24.2  
153 12.9 10.4 15.6





#17  
Acenaphthene  
Concen: 0.392 ng  
RT: 14.031 min Scan# 1443  
Delta R.T. -0.000 min  
Lab File: BN035368.D  
Acq: 28 Nov 2024 04:51

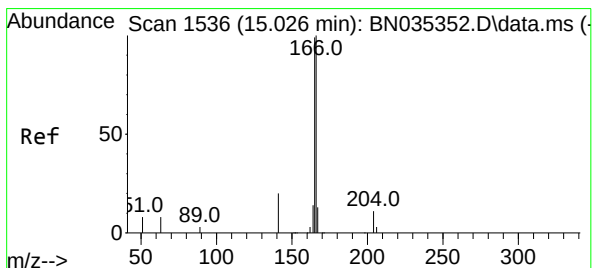
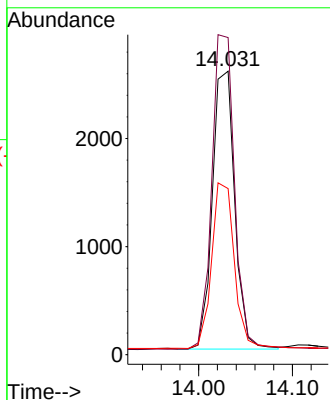
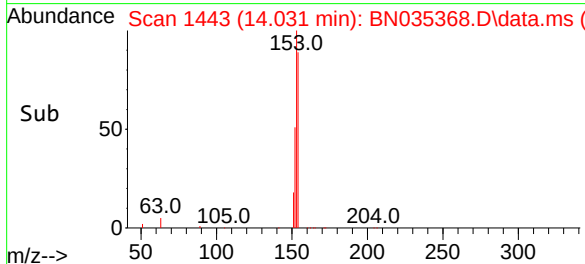
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDCCC0.4



Tgt Ion:154 Resp: 4272  
Ion Ratio Lower Upper  
154 100  
153 115.9 92.6 139.0  
152 61.0 49.0 73.6

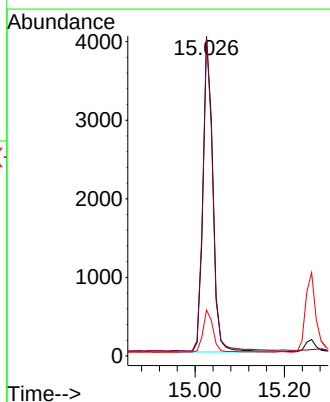
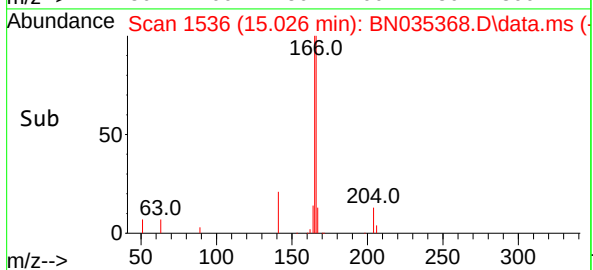
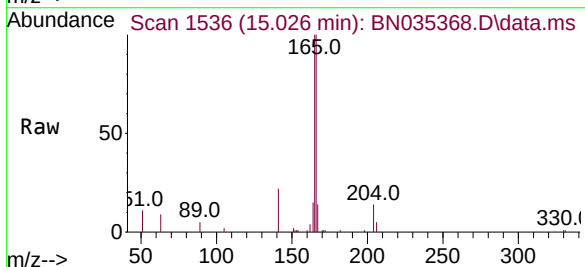
Manual Integrations  
**APPROVED**

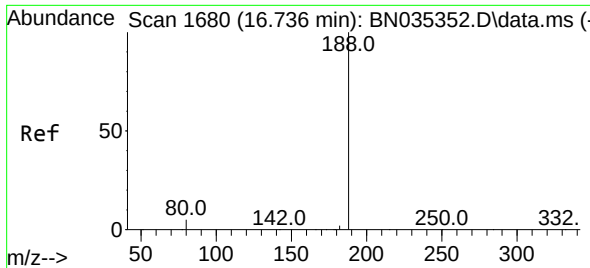
Reviewed By :Yogesh Patel 11/29/2024  
Supervised By :mohammad ahmed 11/29/2024



#18  
Fluorene  
Concen: 0.392 ng  
RT: 15.026 min Scan# 1536  
Delta R.T. -0.000 min  
Lab File: BN035368.D  
Acq: 28 Nov 2024 04:51

Tgt Ion:166 Resp: 6118  
Ion Ratio Lower Upper  
166 100  
165 99.0 79.7 119.5  
167 13.9 10.8 16.2





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 16.723 min Scan# 1

Delta R.T. -0.012 min

Lab File: BN035368.D

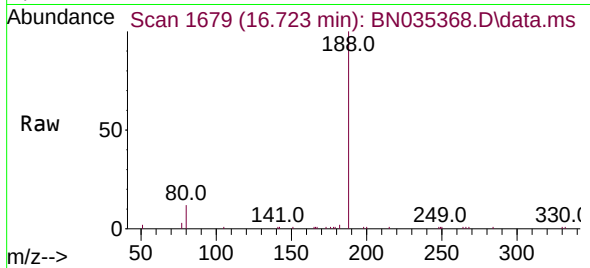
Acq: 28 Nov 2024 04:51

Instrument :

BNA\_N

ClientSampleId :

SSTDCCC0.4



Tgt Ion:188 Resp: 975

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

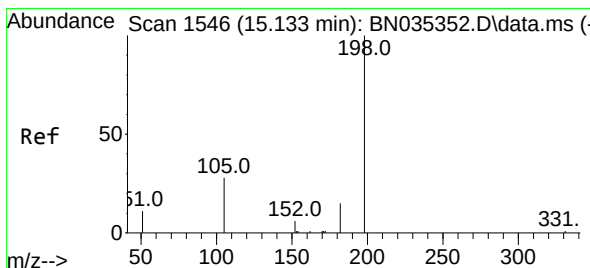
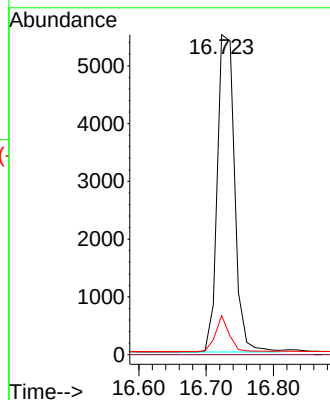
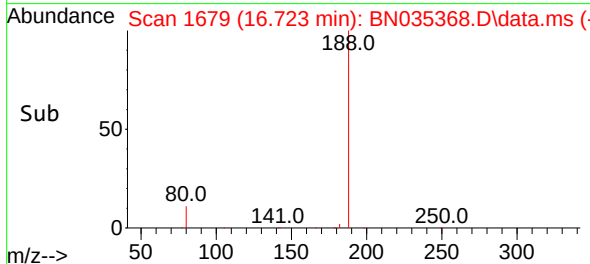
80 12.2 4.6 6.8

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 11/29/2024

Supervised By :mohammad ahmed 11/29/2024



#20

4,6-Dinitro-2-methylphenol

Concen: 0.364 ng

RT: 15.132 min Scan# 1546

Delta R.T. -0.001 min

Lab File: BN035368.D

Acq: 28 Nov 2024 04:51

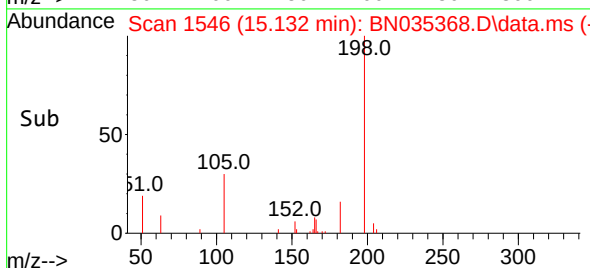
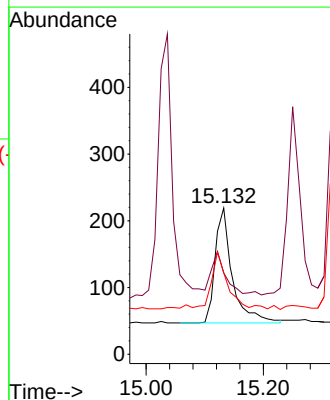
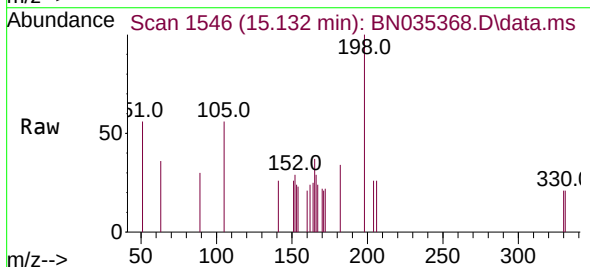
Tgt Ion:198 Resp: 349

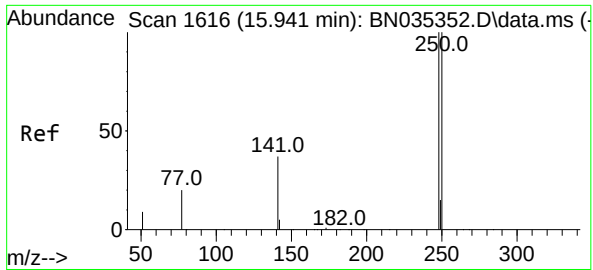
Ion Ratio Lower Upper

198 100

51 55.7 46.5 69.7

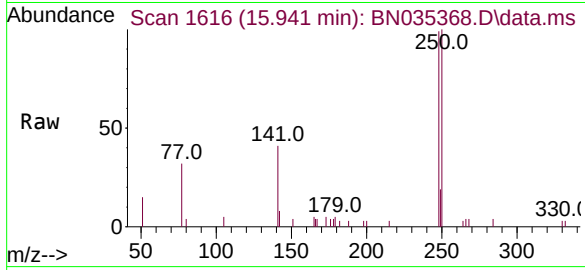
105 55.7 45.3 67.9





#21  
4-Bromophenyl-phenylether  
Concen: 0.388 ng  
RT: 15.941 min Scan# 1616  
Delta R.T. -0.000 min  
Lab File: BN035368.D  
Acq: 28 Nov 2024 04:51

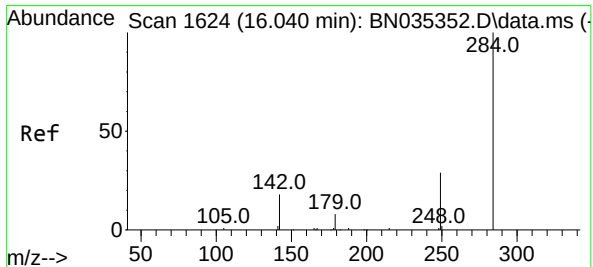
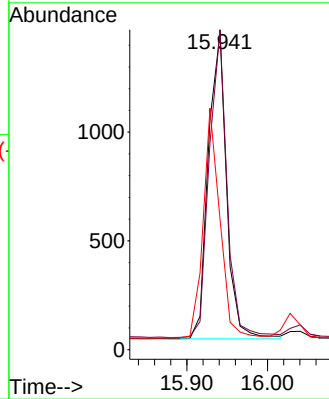
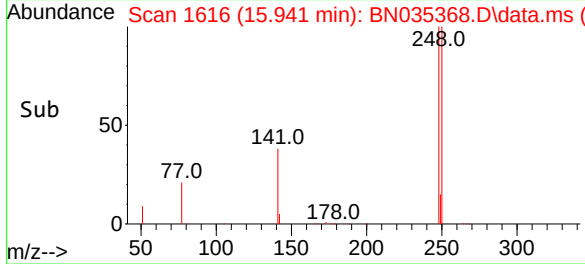
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDCCC0.4



Tgt Ion:248 Resp: 2214  
Ion Ratio Lower Upper  
248 100  
250 101.0 80.6 120.8  
141 41.1 31.5 47.3

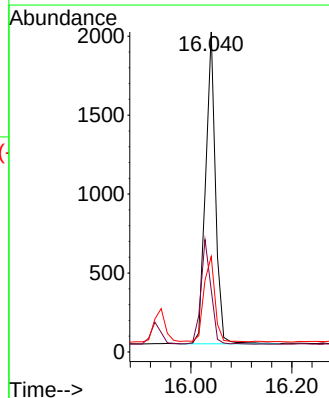
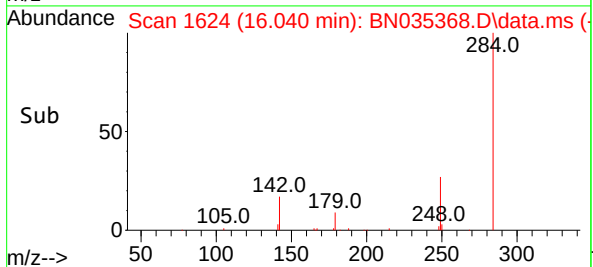
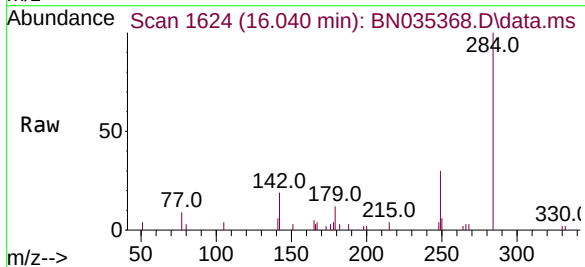
Manual Integrations  
**APPROVED**

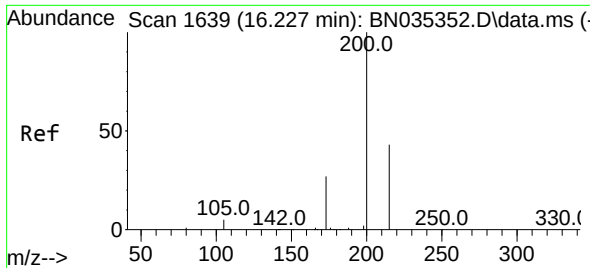
Reviewed By :Yogesh Patel 11/29/2024  
Supervised By :mohammad ahmed 11/29/2024



#22  
Hexachlorobenzene  
Concen: 0.405 ng  
RT: 16.040 min Scan# 1624  
Delta R.T. -0.000 min  
Lab File: BN035368.D  
Acq: 28 Nov 2024 04:51

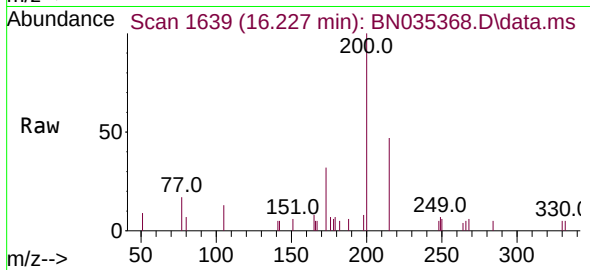
Tgt Ion:284 Resp: 2712  
Ion Ratio Lower Upper  
284 100  
142 34.0 26.7 40.1  
249 30.5 24.6 36.8





#23  
Atrazine  
Concen: 0.362 ng  
RT: 16.227 min Scan# 1639  
Delta R.T. -0.000 min  
Lab File: BN035368.D  
Acq: 28 Nov 2024 04:51

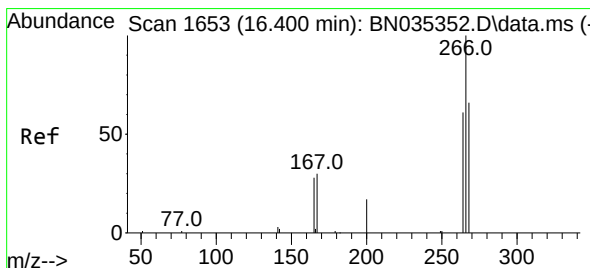
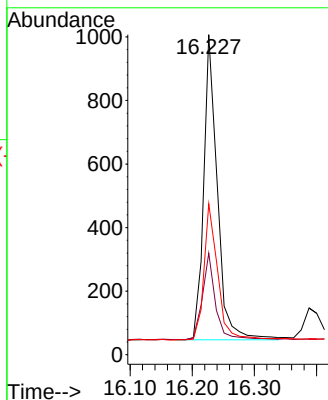
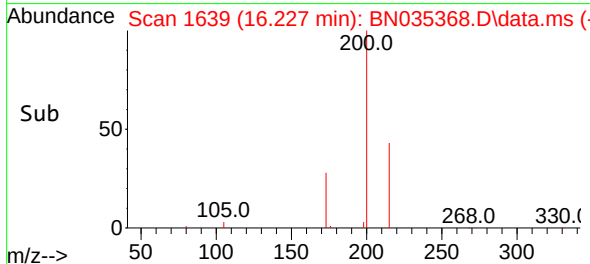
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDCCC0.4



Tgt Ion:200 Resp: 1469  
Ion Ratio Lower Upper  
200 100  
173 31.8 24.1 36.1  
215 47.2 36.9 55.3

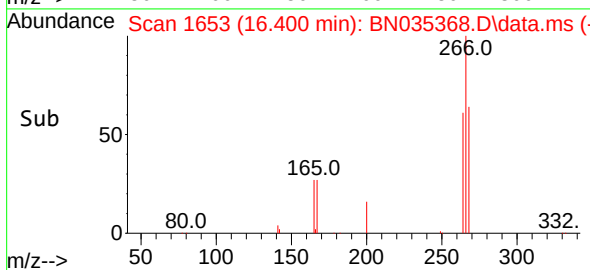
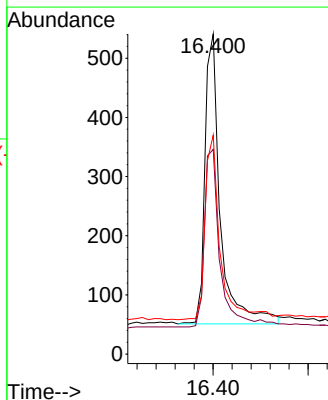
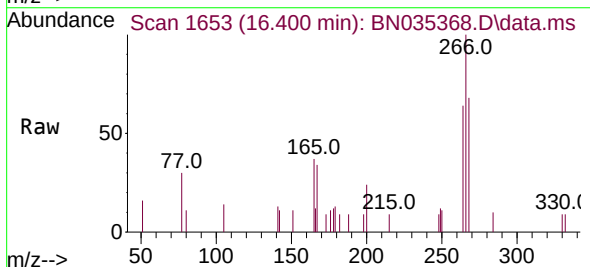
Manual Integrations  
APPROVED

Reviewed By :Yogesh Patel 11/29/2024  
Supervised By :mohammad ahmed 11/29/2024

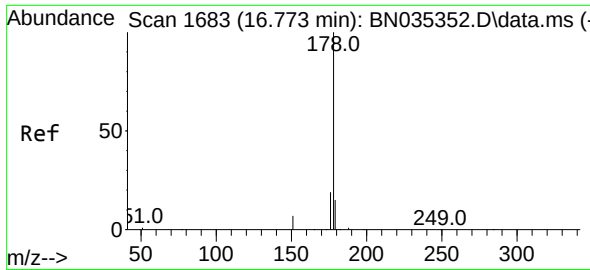


#24  
Pentachlorophenol  
Concen: 0.380 ng  
RT: 16.400 min Scan# 1653  
Delta R.T. -0.000 min  
Lab File: BN035368.D  
Acq: 28 Nov 2024 04:51

Tgt Ion:266 Resp: 1108  
Ion Ratio Lower Upper  
266 100  
264 62.3 42.3 63.5  
268 62.8 43.3 64.9

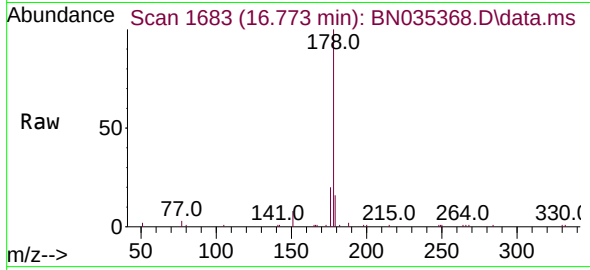






#25  
Phenanthrene  
Concen: 0.389 ng  
RT: 16.773 min Scan# 1683  
Delta R.T. -0.000 min  
Lab File: BN035368.D  
Acq: 28 Nov 2024 04:51

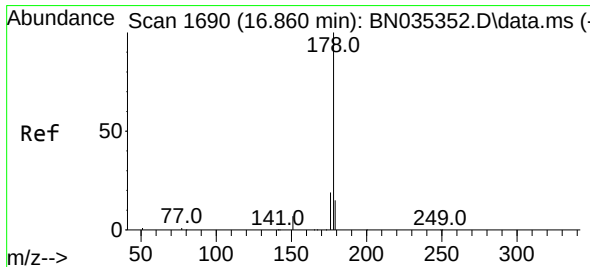
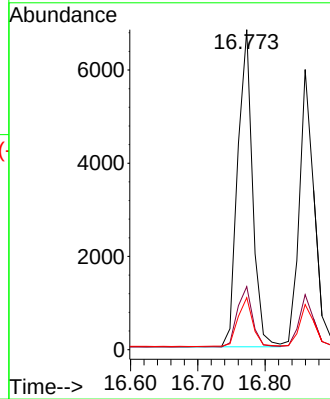
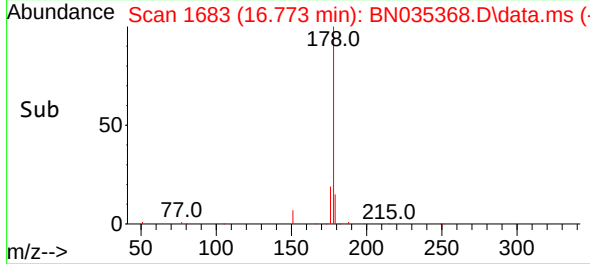
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDCCC0.4



Tgt Ion:178 Resp: 10414  
Ion Ratio Lower Upper  
178 100  
176 19.3 15.4 23.2  
179 15.4 12.3 18.5

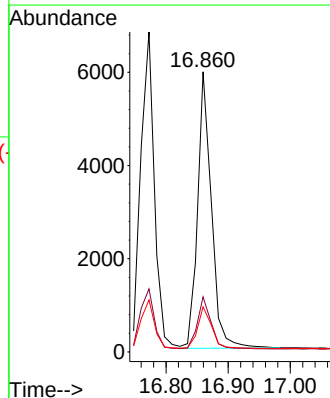
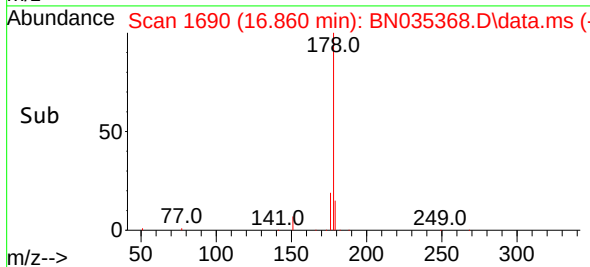
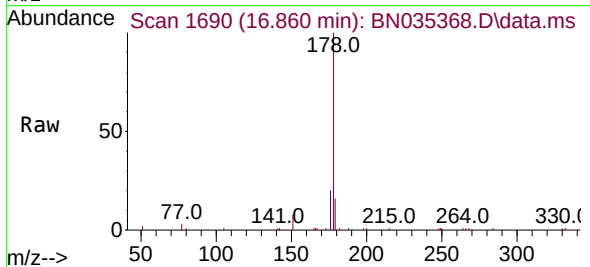
Manual Integrations  
**APPROVED**

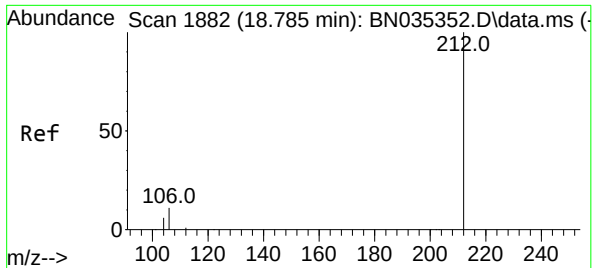
Reviewed By :Yogesh Patel 11/29/2024  
Supervised By :mohammad ahmed 11/29/2024



#26  
Anthracene  
Concen: 0.380 ng  
RT: 16.860 min Scan# 1690  
Delta R.T. -0.000 min  
Lab File: BN035368.D  
Acq: 28 Nov 2024 04:51

Tgt Ion:178 Resp: 9214  
Ion Ratio Lower Upper  
178 100  
176 18.9 15.0 22.6  
179 15.4 12.6 18.8





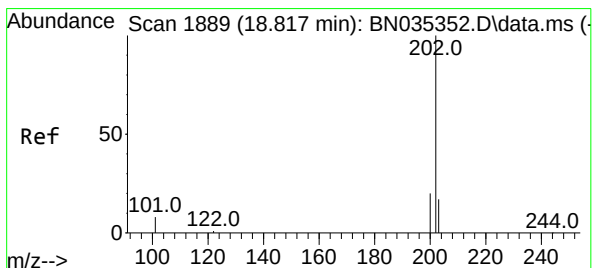
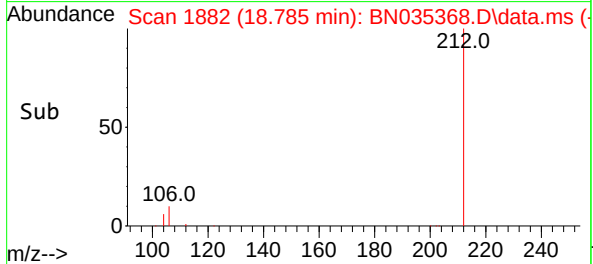
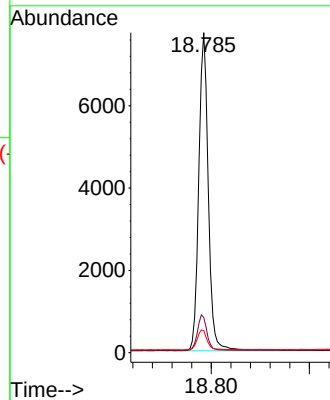
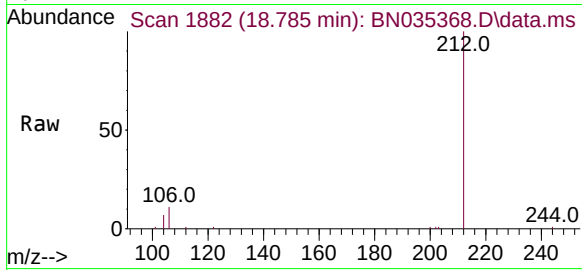
#27  
Fluoranthene-d10  
Concen: 0.376 ng  
RT: 18.785 min Scan# 1882  
Delta R.T. -0.000 min  
Lab File: BN035368.D  
Acq: 28 Nov 2024 04:51

Instrument :  
BNA\_N  
ClientSampleId :  
SSTDCCC0.4

Tgt Ion:212 Resp: 1038  
Ion Ratio Lower Upper  
212 100  
106 11.1 9.2 13.8  
104 6.4 5.3 7.9

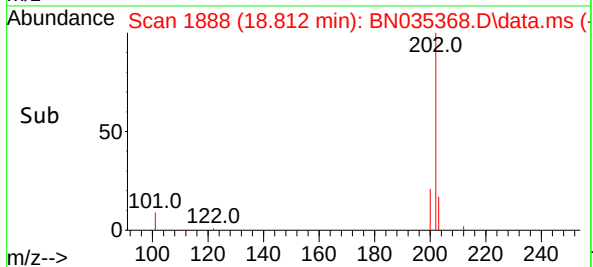
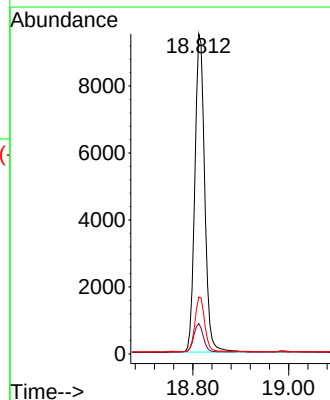
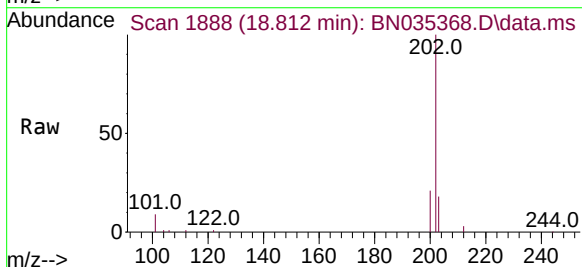
Manual Integrations  
**APPROVED**

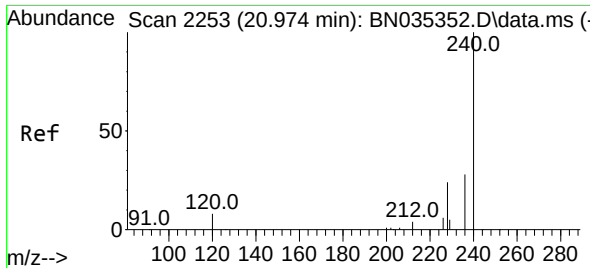
Reviewed By :Yogesh Patel 11/29/2024  
Supervised By :mohammad ahmed 11/29/2024



#28  
Fluoranthene  
Concen: 0.375 ng  
RT: 18.812 min Scan# 1888  
Delta R.T. -0.005 min  
Lab File: BN035368.D  
Acq: 28 Nov 2024 04:51

Tgt Ion:202 Resp: 13563  
Ion Ratio Lower Upper  
202 100  
101 9.1 7.4 11.0  
203 17.1 13.7 20.5





#29

Chrysene-d12

Concen: 0.400 ng

RT: 20.974 min Scan# 21

Delta R.T. -0.000 min

Lab File: BN035368.D

Acq: 28 Nov 2024 04:51

Instrument :

BNA\_N

ClientSampleId :

SSTDCCC0.4

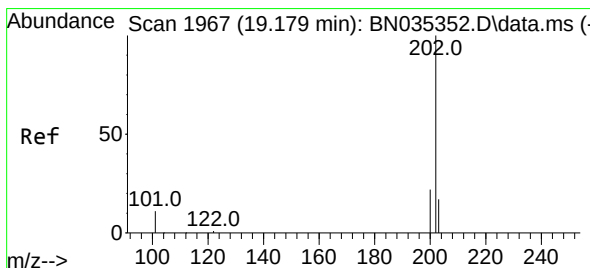
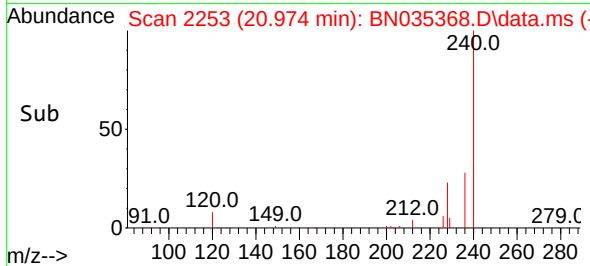
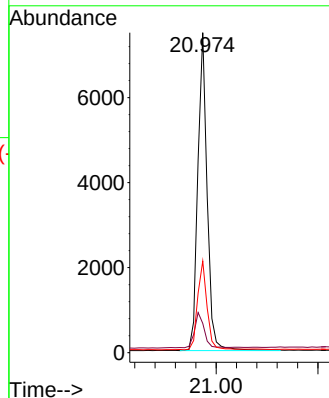
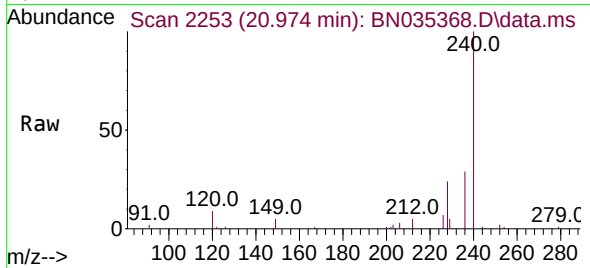
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 240     | 100   |       |       |
| 120     | 9.1   | 7.9   | 11.9  |
| 236     | 28.7  | 22.9  | 34.3  |

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 11/29/2024

Supervised By :mohammad ahmed 11/29/2024



#30

Pyrene

Concen: 0.404 ng

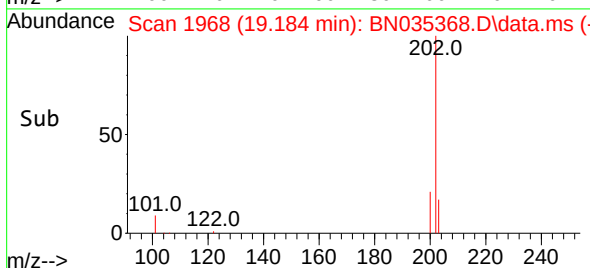
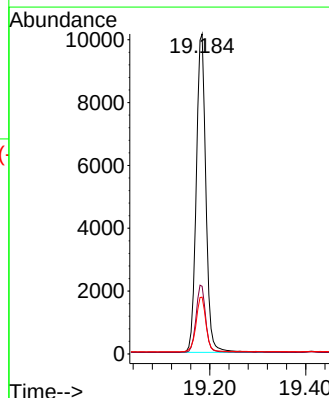
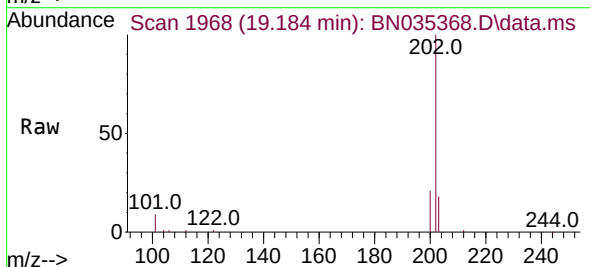
RT: 19.184 min Scan# 1968

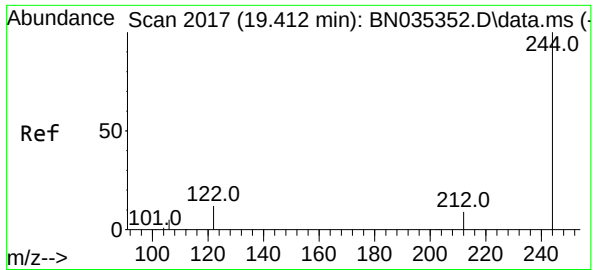
Delta R.T. 0.005 min

Lab File: BN035368.D

Acq: 28 Nov 2024 04:51

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 202     | 100   |       |       |
| 200     | 21.3  | 17.0  | 25.4  |
| 203     | 17.7  | 14.3  | 21.5  |





#31  
Terphenyl-d14  
Concen: 0.399 ng  
RT: 19.412 min Scan# 2017  
Delta R.T. -0.000 min  
Lab File: BN035368.D  
Acq: 28 Nov 2024 04:51

Instrument :

BNA\_N

ClientSampleId :

SSTDCCC0.4

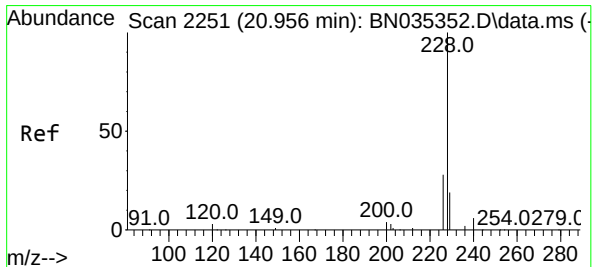
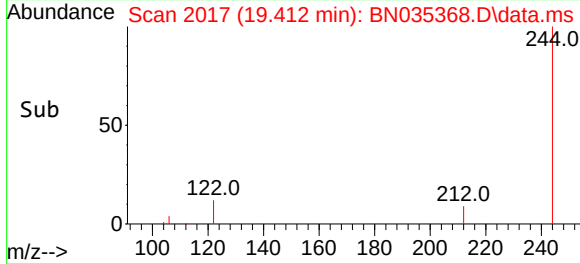
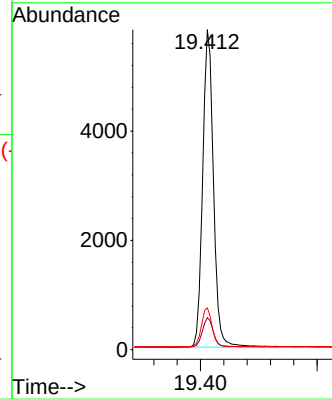
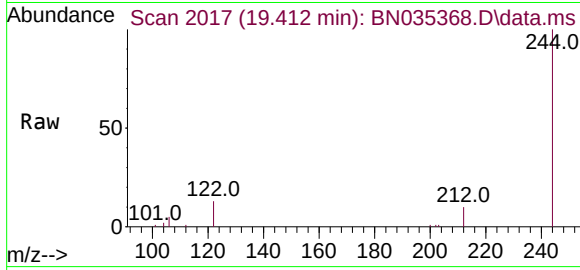
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 244     | 100   |       |       |
| 212     | 10.0  | 8.1   | 12.1  |
| 122     | 13.0  | 10.3  | 15.5  |

Manual Integrations

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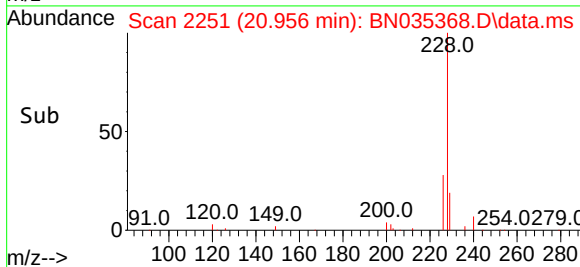
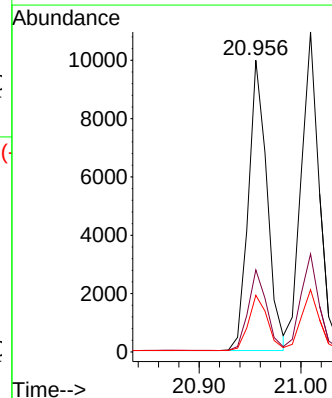
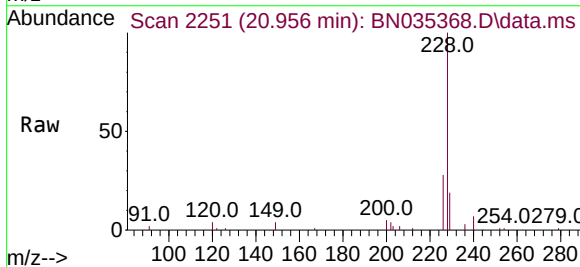
Reviewed By :Yogesh Patel 11/29/2024

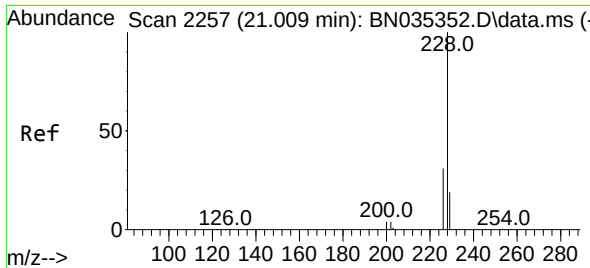
Supervised By :mohammad ahmed 11/29/2024



#32  
Benzo(a)anthracene  
Concen: 0.381 ng  
RT: 20.956 min Scan# 2251  
Delta R.T. -0.000 min  
Lab File: BN035368.D  
Acq: 28 Nov 2024 04:51

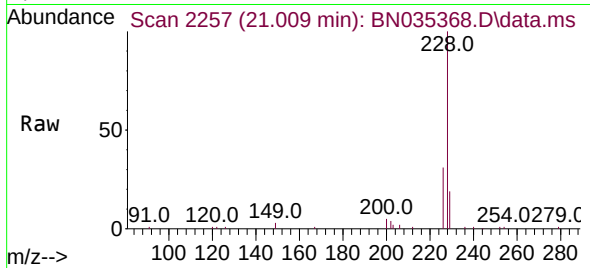
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 228     | 100   |       |       |
| 226     | 28.2  | 22.5  | 33.7  |
| 229     | 19.4  | 15.8  | 23.8  |





#33  
Chrysene  
Concen: 0.403 ng  
RT: 21.009 min Scan# 21  
Delta R.T. -0.000 min  
Lab File: BN035368.D  
Acq: 28 Nov 2024 04:51

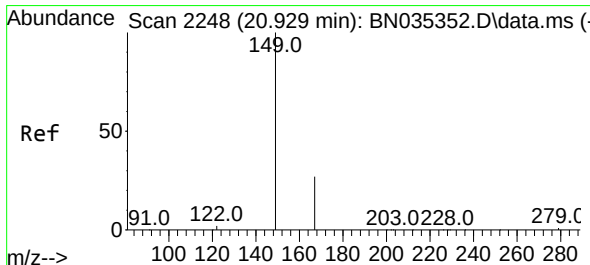
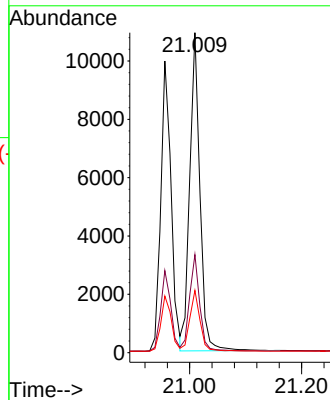
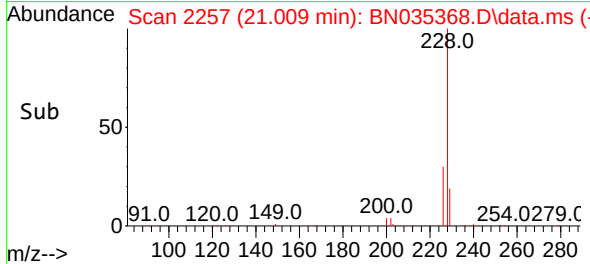
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDCCC0.4



Tgt Ion:228 Resp: 1379  
Ion Ratio Lower Upper  
228 100  
226 30.6 24.6 37.0  
229 19.4 15.9 23.9

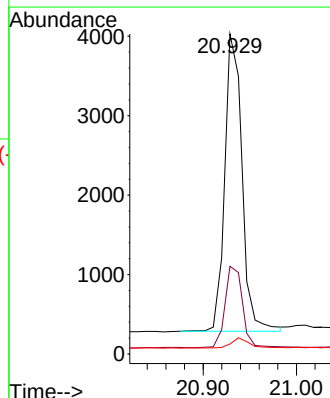
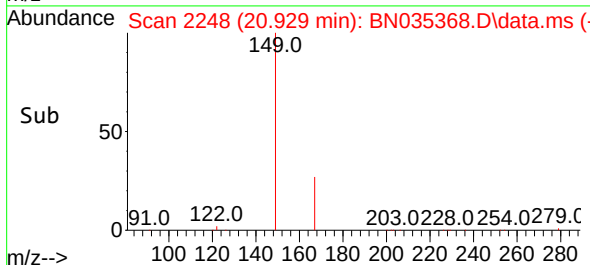
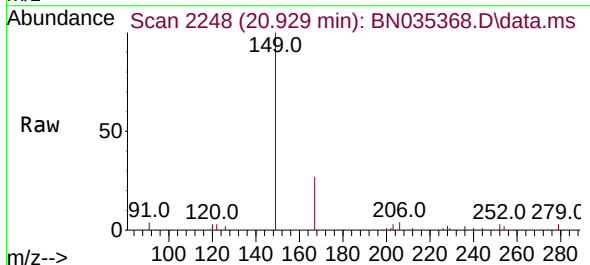
Manual Integrations  
**APPROVED**

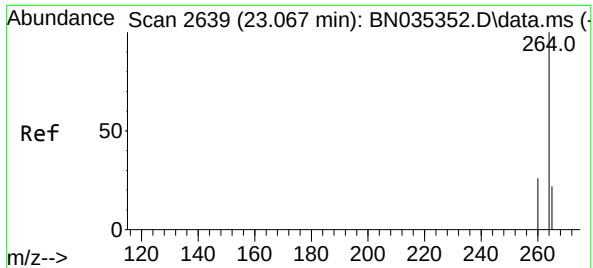
Reviewed By :Yogesh Patel 11/29/2024  
Supervised By :mohammad ahmed 11/29/2024



#34  
Bis(2-ethylhexyl)phthalate  
Concen: 0.365 ng  
RT: 20.929 min Scan# 2248  
Delta R.T. -0.000 min  
Lab File: BN035368.D  
Acq: 28 Nov 2024 04:51

Tgt Ion:149 Resp: 4791  
Ion Ratio Lower Upper  
149 100  
167 27.8 22.2 33.4  
279 3.9 2.7 4.1





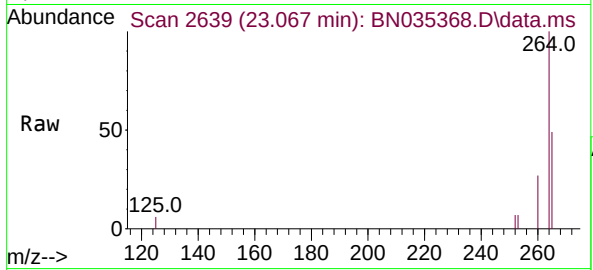
#35  
Perylene-d12  
Concen: 0.400 ng  
RT: 23.067 min Scan# 2639  
Delta R.T. -0.000 min  
Lab File: BN035368.D  
Acq: 28 Nov 2024 04:51

Instrument :

BNA\_N

ClientSampleId :

SSTDCCC0.4



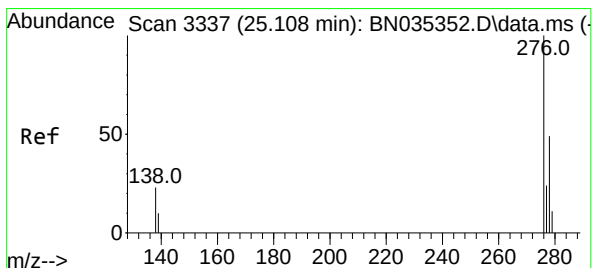
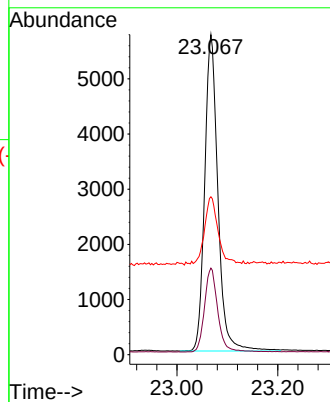
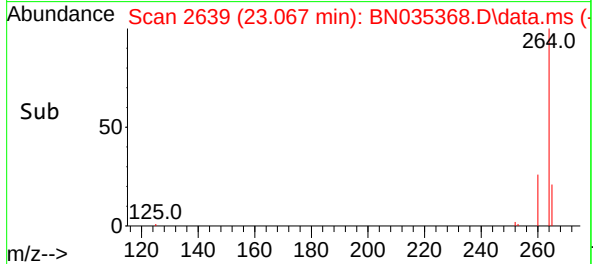
Tgt Ion:264 Resp: 10410  
Ion Ratio Lower Upper  
264 100  
260 27.0 21.4 32.2  
265 49.4 40.2 60.4

Manual Integrations

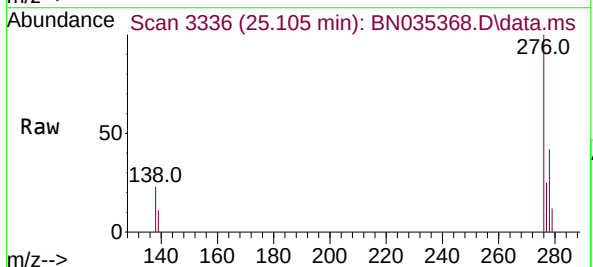
APPROVED

Reviewed By :Yogesh Patel 11/29/2024

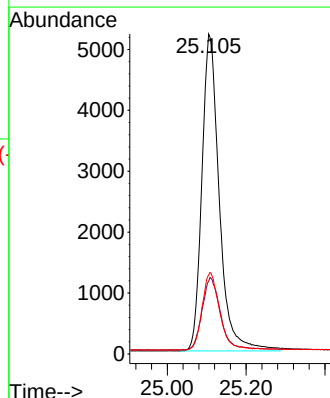
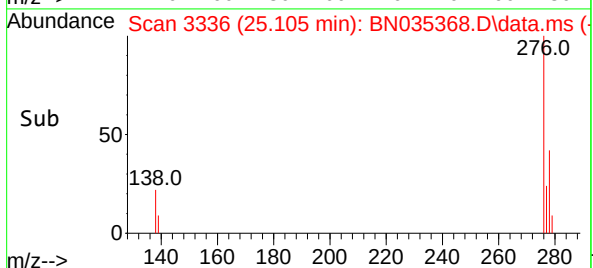
Supervised By :mohammad ahmed 11/29/2024

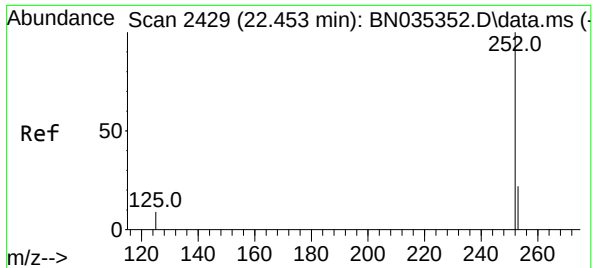


#36  
Indeno(1,2,3-cd)pyrene  
Concen: 0.392 ng  
RT: 25.105 min Scan# 3336  
Delta R.T. -0.003 min  
Lab File: BN035368.D  
Acq: 28 Nov 2024 04:51



Tgt Ion:276 Resp: 15947  
Ion Ratio Lower Upper  
276 100  
138 23.2 19.4 29.0  
277 24.5 19.8 29.6





#37

Benzo(b)fluoranthene

Concen: 0.431 ng

RT: 22.453 min Scan# 2429

Delta R.T. -0.000 min

Lab File: BN035368.D

Acq: 28 Nov 2024 04:51

Instrument :

BNA\_N

ClientSampleId :

SSTDCCC0.4

Tgt Ion:252 Resp: 1643

Ion Ratio Lower Upper

252 100

253 24.5 19.6 29.4

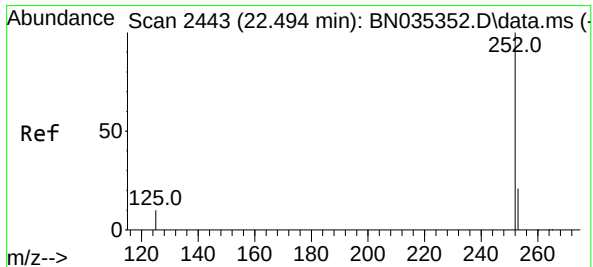
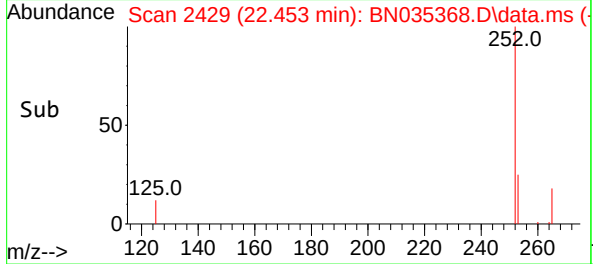
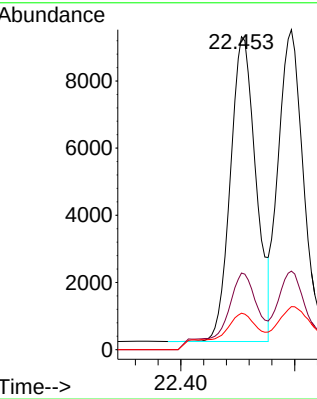
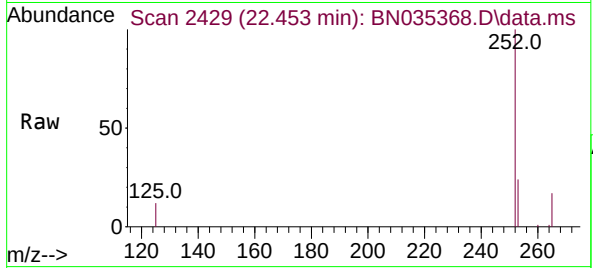
125 11.7 9.6 14.4

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 11/29/2024

Supervised By :mohammad ahmed 11/29/2024



#38

Benzo(k)fluoranthene

Concen: 0.391 ng

RT: 22.497 min Scan# 2444

Delta R.T. 0.003 min

Lab File: BN035368.D

Acq: 28 Nov 2024 04:51

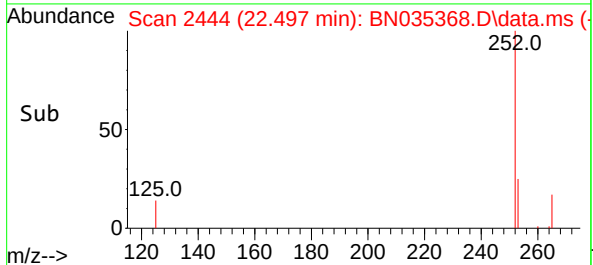
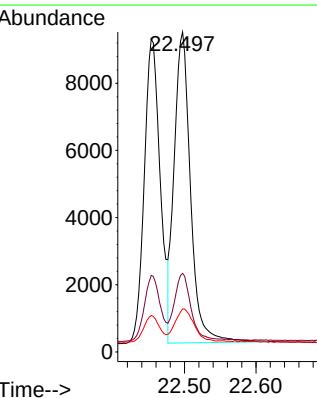
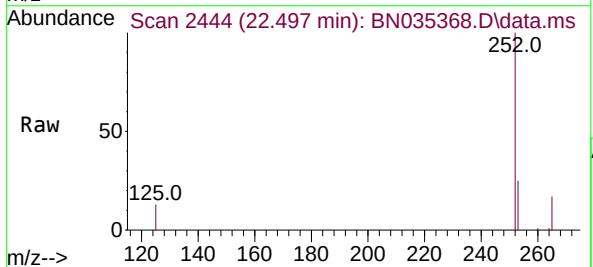
Tgt Ion:252 Resp: 14678

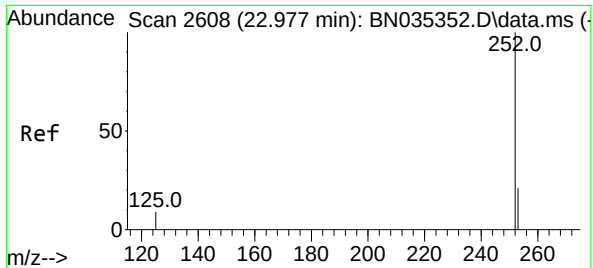
Ion Ratio Lower Upper

252 100

253 24.6 19.5 29.3

125 13.4 10.2 15.4





#39

Benzo(a)pyrene

Concen: 0.378 ng

RT: 22.980 min Scan# 2609

Delta R.T. 0.003 min

Lab File: BN035368.D

Acq: 28 Nov 2024 04:51

Instrument :

BNA\_N

ClientSampleId :

SSTDCCC0.4

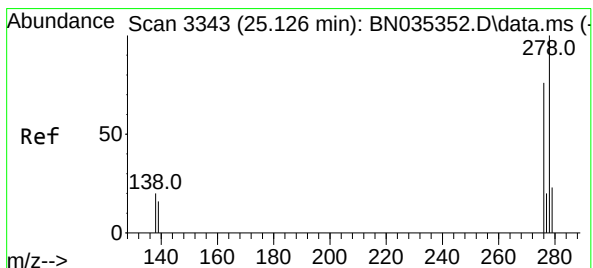
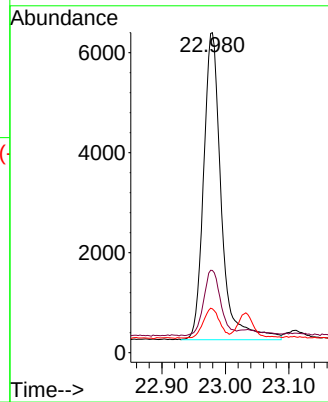
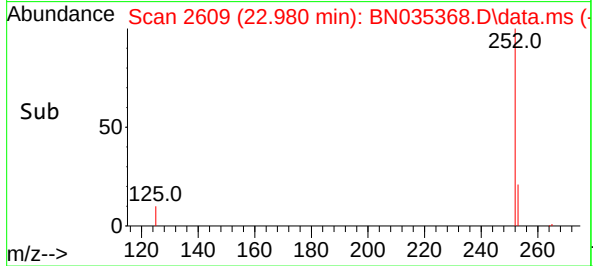
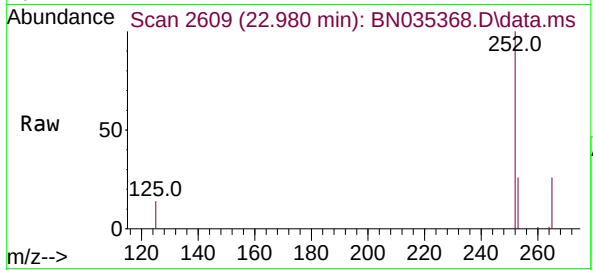
|           |       |       |      |
|-----------|-------|-------|------|
| Tgt Ion:  | 252   | Resp: | 1187 |
| Ion Ratio | Lower | Upper |      |
| 252       | 100   |       |      |
| 253       | 25.7  | 20.2  | 30.4 |
| 125       | 13.7  | 10.9  | 16.3 |

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 11/29/2024

Supervised By :mohammad ahmed 11/29/2024



#40

Dibenzo(a,h)anthracene

Concen: 0.390 ng

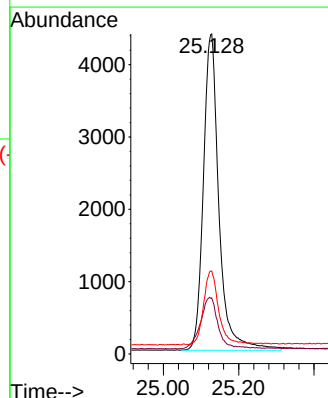
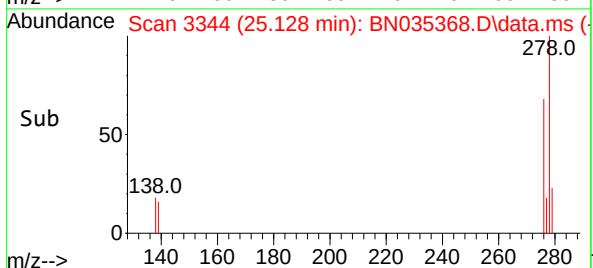
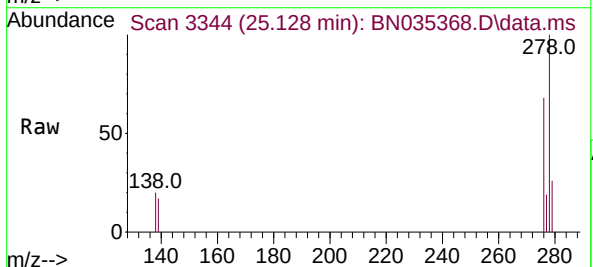
RT: 25.128 min Scan# 3344

Delta R.T. 0.003 min

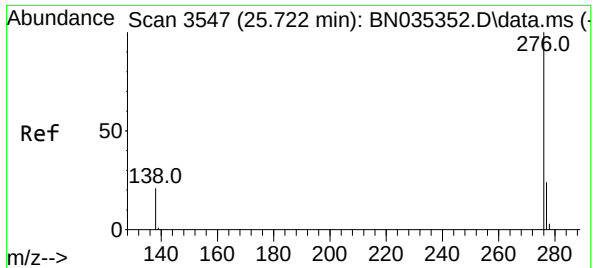
Lab File: BN035368.D

Acq: 28 Nov 2024 04:51

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 278   | Resp: | 12541 |
| Ion Ratio | Lower | Upper |       |
| 278       | 100   |       |       |
| 139       | 17.5  | 14.2  | 21.4  |
| 279       | 25.9  | 20.5  | 30.7  |







#41

Benzo(g,h,i)perylene

Concen: 0.383 ng

RT: 25.722 min Scan# 31

Delta R.T. -0.000 min

Lab File: BN035368.D

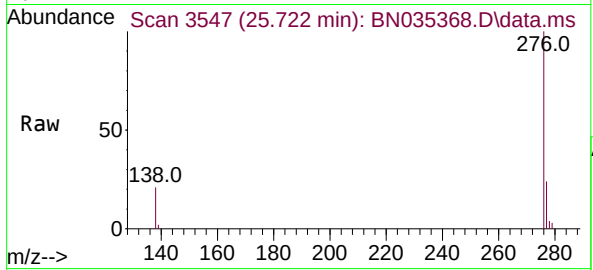
Acq: 28 Nov 2024 04:51

Instrument :

BNA\_N

ClientSampleId :

SSTDCCC0.4



Tgt Ion:276 Resp: 1285

Ion Ratio Lower Upper

276 100

277 24.4 19.9 29.9

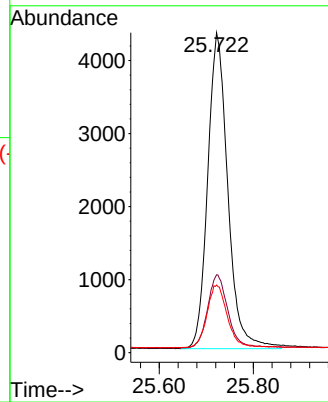
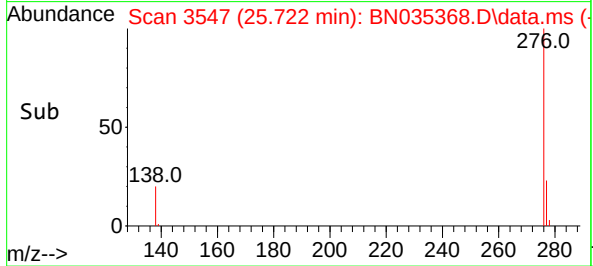
138 21.2 17.8 26.8

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 11/29/2024

Supervised By :mohammad ahmed 11/29/2024



Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN112724\  
 Data File : BN035368.D  
 Acq On : 28 Nov 2024 04:51  
 Operator : RC/JU  
 Sample : SSTDCCC0.4  
 Misc :  
 ALS Vial : 22 Sample Multiplier: 1

Instrument :  
 BNA\_N  
 LabSampleId :  
 SSTDCCC0.4

Quant Time: Nov 28 05:19:23 2024  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\8270-SIM-BN112724.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Wed Nov 27 23:03:24 2024  
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min  
 Max. RRF Dev : 25% Max. Rel. Area : 150%

|         | Compound                   | AvgRF | CCRF  | %Dev | Area% | Dev(min) |
|---------|----------------------------|-------|-------|------|-------|----------|
| 1 I     | 1,4-Dichlorobenzene-d4     | 1.000 | 1.000 | 0.0  | 100   | 0.00     |
| 2       | 1,4-Dioxane                | 0.382 | 0.375 | 1.8  | 100   | 0.00     |
| 3       | n-Nitrosodimethylamine     | 0.319 | 0.327 | -2.5 | 100   | 0.00     |
| 4 S     | 2-Fluorophenol             | 1.001 | 1.030 | -2.9 | 101   | 0.00     |
| 5 S     | Phenol-d6                  | 1.204 | 1.273 | -5.7 | 107   | 0.00     |
| 6       | bis(2-Chloroethyl)ether    | 1.012 | 0.987 | 2.5  | 100   | 0.00     |
| 7 I     | Naphthalene-d8             | 1.000 | 1.000 | 0.0  | 103   | 0.00     |
| 8 S     | Nitrobenzene-d5            | 0.244 | 0.241 | 1.2  | 105   | 0.00     |
| 9       | Naphthalene                | 1.055 | 1.043 | 1.1  | 102   | 0.00     |
| 10      | Hexachlorobutadiene        | 0.243 | 0.251 | -3.3 | 104   | 0.00     |
| 11 SURR | 2-Methylnaphthalene-d10    | 0.626 | 0.617 | 1.4  | 102   | 0.00     |
| 12      | 2-Methylnaphthalene        | 0.755 | 0.749 | 0.8  | 104   | 0.00     |
| 13 I    | Acenaphthene-d10           | 1.000 | 1.000 | 0.0  | 103   | 0.00     |
| 14 S    | 2,4,6-Tribromophenol       | 0.284 | 0.280 | 1.4  | 112   | 0.00     |
| 15 S    | 2-Fluorobiphenyl           | 1.512 | 1.520 | -0.5 | 104   | 0.00     |
| 16      | Acenaphthylene             | 1.680 | 1.630 | 3.0  | 105   | 0.00     |
| 17      | Acenaphthene               | 1.115 | 1.093 | 2.0  | 104   | 0.00     |
| 18      | Fluorene                   | 1.596 | 1.566 | 1.9  | 104   | 0.00     |
| 19 I    | Phenanthrene-d10           | 1.000 | 1.000 | 0.0  | 103   | -0.01    |
| 20      | 4,6-Dinitro-2-methylphenol | 0.039 | 0.036 | 7.7  | 104   | 0.00     |
| 21      | 4-Bromophenyl-phenylether  | 0.234 | 0.227 | 3.0  | 103   | 0.00     |
| 22      | Hexachlorobenzene          | 0.275 | 0.278 | -1.1 | 105   | 0.00     |
| 23      | Atrazine                   | 0.167 | 0.151 | 9.6  | 101   | 0.00     |
| 24      | Pentachlorophenol          | 0.120 | 0.114 | 5.0  | 122   | 0.00     |
| 25      | Phenanthrene               | 1.099 | 1.067 | 2.9  | 103   | 0.00     |
| 26      | Anthracene                 | 0.994 | 0.944 | 5.0  | 103   | 0.00     |
| 27 SURR | Fluoranthene-d10           | 1.134 | 1.065 | 6.1  | 102   | 0.00     |
| 28      | Fluoranthene               | 1.481 | 1.390 | 6.1  | 101   | 0.00     |
| 29 I    | Chrysene-d12               | 1.000 | 1.000 | 0.0  | 100   | 0.00     |
| 30      | Pyrene                     | 1.477 | 1.491 | -0.9 | 101   | 0.00     |
| 31 S    | Terphenyl-d14              | 0.789 | 0.788 | 0.1  | 99    | 0.00     |
| 32      | Benzo(a)anthracene         | 1.399 | 1.333 | 4.7  | 98    | 0.00     |
| 33      | Chrysene                   | 1.443 | 1.453 | -0.7 | 100   | 0.00     |
| 34      | Bis(2-ethylhexyl)phthalate | 0.553 | 0.505 | 8.7  | 98    | 0.00     |
| 35 I    | Perylene-d12               | 1.000 | 1.000 | 0.0  | 96    | 0.00     |
| 36      | Indeno(1,2,3-cd)pyrene     | 1.564 | 1.531 | 2.1  | 96    | 0.00     |
| 37      | Benzo(b)fluoranthene       | 1.463 | 1.578 | -7.9 | 115   | 0.00     |
| 38      | Benzo(k)fluoranthene       | 1.440 | 1.409 | 2.2  | 97    | 0.00     |
| 39 C    | Benzo(a)pyrene             | 1.205 | 1.140 | 5.4  | 96    | 0.00     |
| 40      | Dibenzo(a,h)anthracene     | 1.234 | 1.204 | 2.4  | 97    | 0.00     |
| 41      | Benzo(g,h,i)perylene       | 1.289 | 1.235 | 4.2  | 95    | 0.00     |

(#) = Out of Range

SPCC's out = 0 CCC's out = 0

Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN112724\  
 Data File : BN035368.D  
 Acq On : 28 Nov 2024 04:51  
 Operator : RC/JU  
 Sample : SSTDCCC0.4  
 Misc :  
 ALS Vial : 22 Sample Multiplier: 1

Instrument :  
 BNA\_N  
 LabSampleId :  
 SSTDCCC0.4

Quant Time: Nov 28 05:19:23 2024  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\8270-SIM-BN112724.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Wed Nov 27 23:03:24 2024  
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min  
 Max. RRF Dev : 25% Max. Rel. Area : 150%

|         | Compound                   | Amount | Calc. | %Dev | Area% | Dev(min) |
|---------|----------------------------|--------|-------|------|-------|----------|
| 1 I     | 1,4-Dichlorobenzene-d4     | 0.400  | 0.400 | 0.0  | 100   | 0.00     |
| 2       | 1,4-Dioxane                | 0.400  | 0.393 | 1.8  | 100   | 0.00     |
| 3       | n-Nitrosodimethylamine     | 0.400  | 0.411 | -2.7 | 100   | 0.00     |
| 4 S     | 2-Fluorophenol             | 0.400  | 0.412 | -3.0 | 101   | 0.00     |
| 5 S     | Phenol-d6                  | 0.400  | 0.423 | -5.7 | 107   | 0.00     |
| 6       | bis(2-Chloroethyl)ether    | 0.400  | 0.390 | 2.5  | 100   | 0.00     |
| 7 I     | Naphthalene-d8             | 0.400  | 0.400 | 0.0  | 103   | 0.00     |
| 8 S     | Nitrobenzene-d5            | 0.400  | 0.395 | 1.3  | 105   | 0.00     |
| 9       | Naphthalene                | 0.400  | 0.395 | 1.3  | 102   | 0.00     |
| 10      | Hexachlorobutadiene        | 0.400  | 0.412 | -3.0 | 104   | 0.00     |
| 11 SURR | 2-Methylnaphthalene-d10    | 0.400  | 0.394 | 1.5  | 102   | 0.00     |
| 12      | 2-Methylnaphthalene        | 0.400  | 0.397 | 0.8  | 104   | 0.00     |
| 13 I    | Acenaphthene-d10           | 0.400  | 0.400 | 0.0  | 103   | 0.00     |
| 14 S    | 2,4,6-Tribromophenol       | 0.400  | 0.394 | 1.5  | 112   | 0.00     |
| 15 S    | 2-Fluorobiphenyl           | 0.400  | 0.402 | -0.5 | 104   | 0.00     |
| 16      | Acenaphthylene             | 0.400  | 0.388 | 3.0  | 105   | 0.00     |
| 17      | Acenaphthene               | 0.400  | 0.392 | 2.0  | 104   | 0.00     |
| 18      | Fluorene                   | 0.400  | 0.392 | 2.0  | 104   | 0.00     |
| 19 I    | Phenanthrene-d10           | 0.400  | 0.400 | 0.0  | 103   | -0.01    |
| 20      | 4,6-Dinitro-2-methylphenol | 0.400  | 0.364 | 9.0  | 104   | 0.00     |
| 21      | 4-Bromophenyl-phenylether  | 0.400  | 0.388 | 3.0  | 103   | 0.00     |
| 22      | Hexachlorobenzene          | 0.400  | 0.405 | -1.3 | 105   | 0.00     |
| 23      | Atrazine                   | 0.400  | 0.362 | 9.5  | 101   | 0.00     |
| 24      | Pentachlorophenol          | 0.400  | 0.380 | 5.0  | 122   | 0.00     |
| 25      | Phenanthrene               | 0.400  | 0.389 | 2.8  | 103   | 0.00     |
| 26      | Anthracene                 | 0.400  | 0.380 | 5.0  | 103   | 0.00     |
| 27 SURR | Fluoranthene-d10           | 0.400  | 0.376 | 6.0  | 102   | 0.00     |
| 28      | Fluoranthene               | 0.400  | 0.375 | 6.3  | 101   | 0.00     |
| 29 I    | Chrysene-d12               | 0.400  | 0.400 | 0.0  | 100   | 0.00     |
| 30      | Pyrene                     | 0.400  | 0.404 | -1.0 | 101   | 0.00     |
| 31 S    | Terphenyl-d14              | 0.400  | 0.399 | 0.3  | 99    | 0.00     |
| 32      | Benzo(a)anthracene         | 0.400  | 0.381 | 4.8  | 98    | 0.00     |
| 33      | Chrysene                   | 0.400  | 0.403 | -0.8 | 100   | 0.00     |
| 34      | Bis(2-ethylhexyl)phthalate | 0.400  | 0.365 | 8.8  | 98    | 0.00     |
| 35 I    | Perylene-d12               | 0.400  | 0.400 | 0.0  | 96    | 0.00     |
| 36      | Indeno(1,2,3-cd)pyrene     | 0.400  | 0.392 | 2.0  | 96    | 0.00     |
| 37      | Benzo(b)fluoranthene       | 0.400  | 0.431 | -7.7 | 115   | 0.00     |
| 38      | Benzo(k)fluoranthene       | 0.400  | 0.391 | 2.3  | 97    | 0.00     |
| 39 C    | Benzo(a)pyrene             | 0.400  | 0.378 | 5.5  | 96    | 0.00     |
| 40      | Dibenzo(a,h)anthracene     | 0.400  | 0.390 | 2.5  | 97    | 0.00     |
| 41      | Benzo(g,h,i)perylene       | 0.400  | 0.383 | 4.3  | 95    | 0.00     |

(#) = Out of Range

SPCC's out = 0 CCC's out = 0



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

7C

## SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: TETR06

Lab Code: CHEM Case No.: P4959 SAS No.: P4959 SDG No.: P4959

Instrument ID: BNA\_N Calibration Date/Time: 11/28/2024 09:02

Lab File ID: BN035375.D Init. Calib. Date(s): 11/27/2024 11/27/2024

EPA Sample No.: SSTDCCC0.4EC Init. Calib. Time(s): 15:34 19:09

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

| COMPOUND                | RRF   | RRF0.4 | MIN<br>RRF | %D   | MAX%D |
|-------------------------|-------|--------|------------|------|-------|
| 2-Methylnaphthalene-d10 | 0.626 | 0.614  |            | -1.9 | 50.0  |
| Fluoranthene-d10        | 1.134 | 1.056  |            | -6.9 | 50.0  |
| 2-Fluorophenol          | 1.001 | 1.006  |            | 0.5  | 50.0  |
| Phenol-d6               | 1.204 | 1.212  |            | 0.7  | 50.0  |
| Nitrobenzene-d5         | 0.244 | 0.244  |            | 0.0  | 50.0  |
| 2-Fluorobiphenyl        | 1.512 | 1.517  |            | 0.3  | 50.0  |
| 2,4,6-Tribromophenol    | 0.284 | 0.266  |            | -6.3 | 50.0  |
| Terphenyl-d14           | 0.789 | 0.787  |            | -0.3 | 50.0  |
| 1,4-Dioxane             | 0.382 | 0.378  |            | -1.0 | 50.0  |

All other compounds must meet a minimum RRF of 0.010.

Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN112724\  
 Data File : BN035375.D  
 Acq On : 28 Nov 2024 09:02  
 Operator : RC/JU  
 Sample : SSTDCCC0.4  
 Misc :  
 ALS Vial : 29 Sample Multiplier: 1

Instrument :  
 BNA\_N  
 ClientSampleId :  
 SSTDCCC0.4EC

Manual Integrations  
 APPROVED

Reviewed By :Yogesh Patel 11/29/2024  
 Supervised By :mohammad ahmed 11/29/2024

Quant Time: Nov 29 00:19:36 2024  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\8270-SIM-BN112724.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Wed Nov 27 23:03:24 2024  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc  | Units | Dev(Min) |
|-------------------------------|--------|------|----------|-------|-------|----------|
| -----                         |        |      |          |       |       |          |
| Internal Standards            |        |      |          |       |       |          |
| 1) 1,4-Dichlorobenzene-d4     | 7.308  | 152  | 1994     | 0.400 | ng    | 0.00     |
| 7) Naphthalene-d8             | 10.052 | 136  | 5101     | 0.400 | ng    | 0.00     |
| 13) Acenaphthene-d10          | 13.967 | 164  | 3798     | 0.400 | ng    | 0.00     |
| 19) Phenanthrene-d10          | 16.723 | 188  | 9566     | 0.400 | ng    | #-0.01   |
| 29) Chrysene-d12              | 20.974 | 240  | 9222     | 0.400 | ng    | 0.00     |
| 35) Perylene-d12              | 23.067 | 264  | 10081    | 0.400 | ng    | 0.00     |
| System Monitoring Compounds   |        |      |          |       |       |          |
| 4) 2-Fluorophenol             | 4.960  | 112  | 2006     | 0.402 | ng    | 0.00     |
| 5) Phenol-d6                  | 6.513  | 99   | 2417     | 0.403 | ng    | 0.00     |
| 8) Nitrobenzene-d5            | 8.440  | 82   | 1245m    | 0.400 | ng    | 0.00     |
| 11) 2-Methylnaphthalene-d10   | 11.656 | 152  | 3130     | 0.392 | ng    | 0.00     |
| 14) 2,4,6-Tribromophenol      | 15.475 | 330  | 1011     | 0.375 | ng    | 0.00     |
| 15) 2-Fluorobiphenyl          | 12.574 | 172  | 5760     | 0.401 | ng    | 0.00     |
| 27) Fluoranthene-d10          | 18.785 | 212  | 10104    | 0.373 | ng    | 0.00     |
| 31) Terphenyl-d14             | 19.412 | 244  | 7255     | 0.399 | ng    | 0.00     |
| Target Compounds              |        |      |          |       |       |          |
|                               |        |      |          |       |       | Qvalue   |
| 2) 1,4-Dioxane                | 3.003  | 88   | 754      | 0.396 | ng    | 98       |
| 3) n-Nitrosodimethylamine     | 3.292  | 42   | 628      | 0.396 | ng    | # 98     |
| 6) bis(2-Chloroethyl)ether    | 6.759  | 93   | 1960     | 0.389 | ng    | 100      |
| 9) Naphthalene                | 10.105 | 128  | 5328     | 0.396 | ng    | 99       |
| 10) Hexachlorobutadiene       | 10.404 | 225  | 1326     | 0.427 | ng    | # 98     |
| 12) 2-Methylnaphthalene       | 11.732 | 142  | 3793     | 0.394 | ng    | 97       |
| 16) Acenaphthylene            | 13.679 | 152  | 6028     | 0.378 | ng    | 99       |
| 17) Acenaphthene              | 14.031 | 154  | 4106     | 0.388 | ng    | 99       |
| 18) Fluorene                  | 15.026 | 166  | 5935     | 0.392 | ng    | 100      |
| 20) 4,6-Dinitro-2-methylph... | 15.133 | 198  | 357      | 0.380 | ng    | 91       |
| 21) 4-Bromophenyl-phenylether | 15.941 | 248  | 2206     | 0.394 | ng    | 100      |
| 22) Hexachlorobenzene         | 16.040 | 284  | 2655     | 0.404 | ng    | 99       |
| 23) Atrazine                  | 16.227 | 200  | 1384     | 0.347 | ng    | 98       |
| 24) Pentachlorophenol         | 16.400 | 266  | 973      | 0.340 | ng    | # 84     |
| 25) Phenanthrene              | 16.773 | 178  | 10204    | 0.388 | ng    | 100      |
| 26) Anthracene                | 16.860 | 178  | 8929     | 0.376 | ng    | 100      |
| 28) Fluoranthene              | 18.812 | 202  | 13216    | 0.373 | ng    | 99       |
| 30) Pyrene                    | 19.179 | 202  | 13731    | 0.403 | ng    | 100      |
| 32) Benzo(a)anthracene        | 20.956 | 228  | 11985    | 0.372 | ng    | 99       |
| 33) Chrysene                  | 21.009 | 228  | 13365    | 0.402 | ng    | 99       |
| 34) Bis(2-ethylhexyl)phtha... | 20.929 | 149  | 4380     | 0.344 | ng    | 100      |
| 36) Indeno(1,2,3-cd)pyrene    | 25.105 | 276  | 15538    | 0.394 | ng    | 99       |
| 37) Benzo(b)fluoranthene      | 22.453 | 252  | 13327    | 0.361 | ng    | 99       |
| 38) Benzo(k)fluoranthene      | 22.494 | 252  | 14406    | 0.397 | ng    | 99       |
| 39) Benzo(a)pyrene            | 22.977 | 252  | 10891    | 0.359 | ng    | 99       |
| 40) Dibenzo(a,h)anthracene    | 25.123 | 278  | 12092    | 0.389 | ng    | 99       |
| 41) Benzo(g,h,i)perylene      | 25.722 | 276  | 12501    | 0.385 | ng    | 99       |
| -----                         |        |      |          |       |       |          |

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

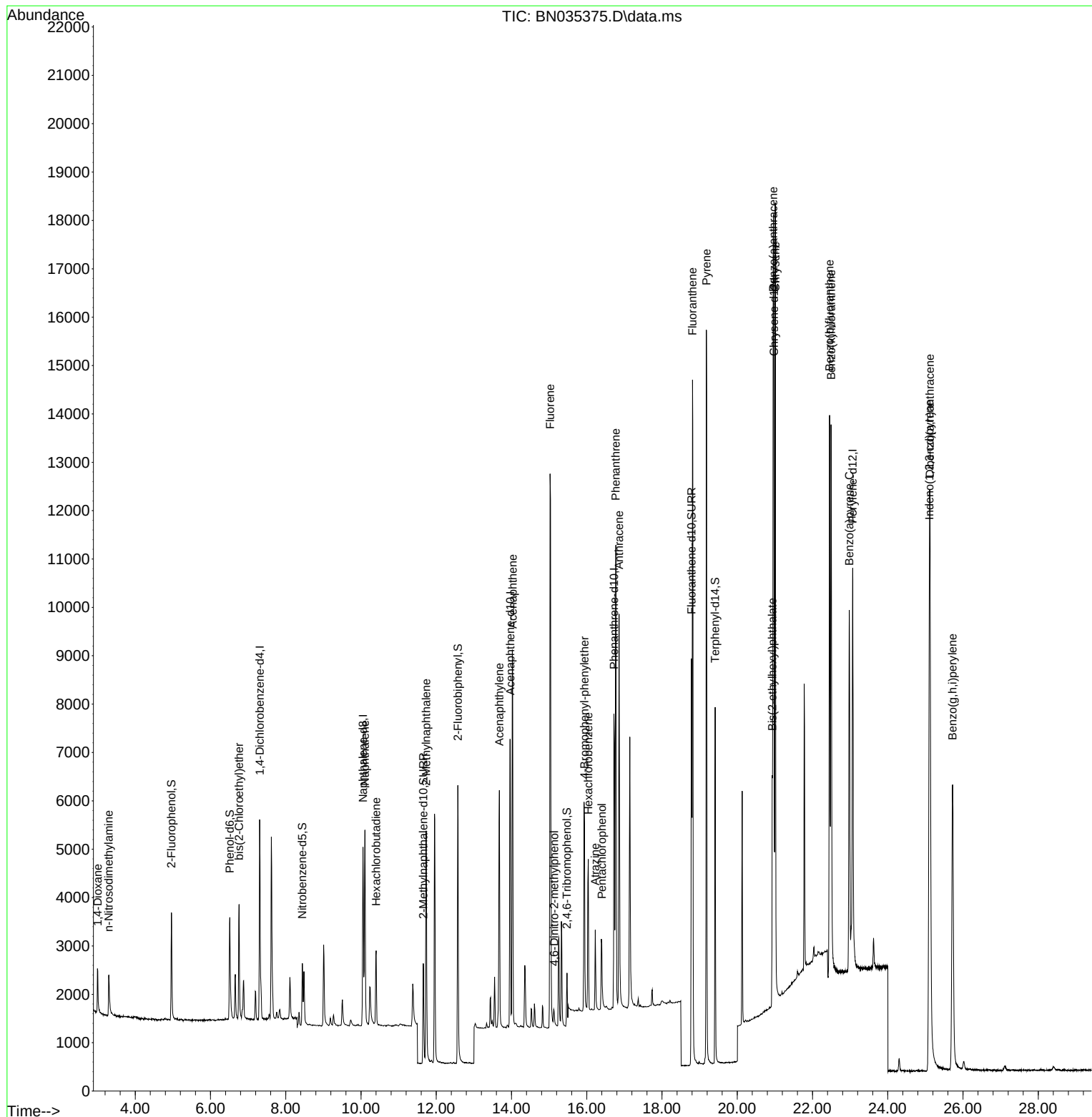
Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN112724\  
 Data File : BN035375.D  
 Acq On : 28 Nov 2024 09:02  
 Operator : RC/JU  
 Sample : SSTDCCC0.4  
 Misc :  
 ALS Vial : 29 Sample Multiplier: 1

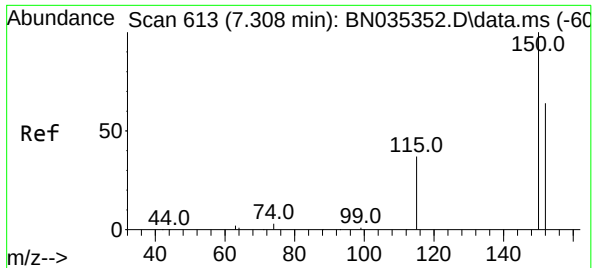
Instrument :  
 BNA\_N  
 ClientSampleId :  
 SSTDCCC0.4EC

### Manual Integrations APPROVED

Reviewed By :Yogesh Patel 11/29/2024  
 Supervised By :mohammad ahmed 11/29/2024

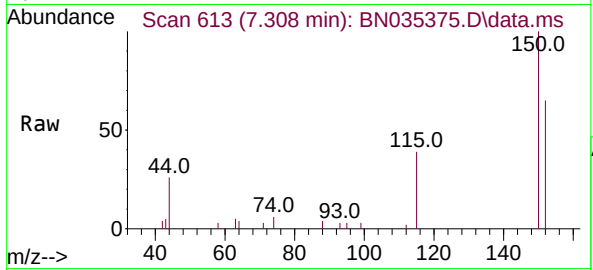
Quant Time: Nov 29 00:19:36 2024  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\8270-SIM-BN112724.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Wed Nov 27 23:03:24 2024  
 Response via : Initial Calibration





#1  
1,4-Dichlorobenzene-d4  
Concen: 0.400 ng  
RT: 7.308 min Scan# 61  
Delta R.T. -0.000 min  
Lab File: BN035375.D  
Acq: 28 Nov 2024 09:02

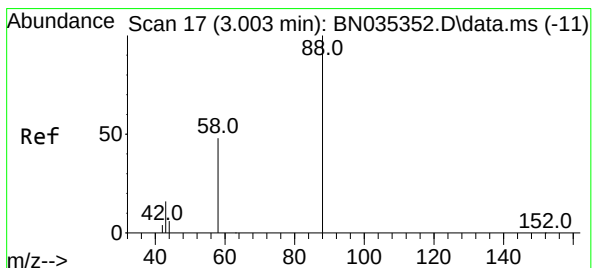
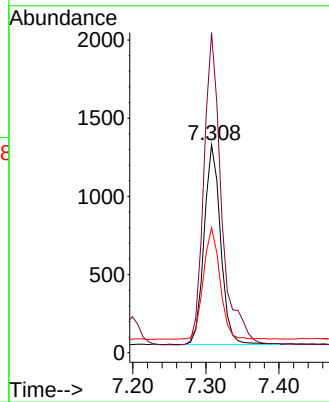
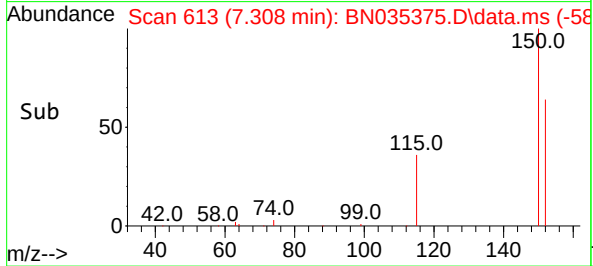
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDCCC0.4EC



Tgt Ion: 152 Resp: 1994  
Ion Ratio Lower Upper  
152 100  
150 153.9 124.0 186.0  
115 60.2 49.6 74.4

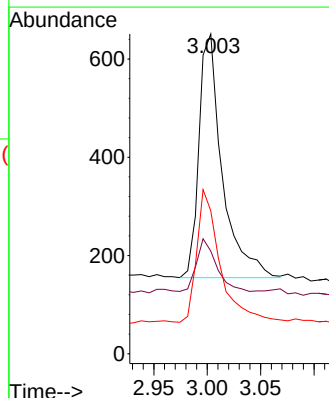
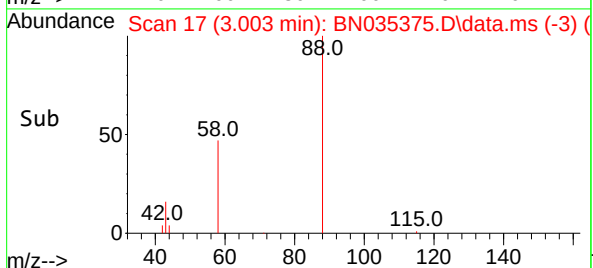
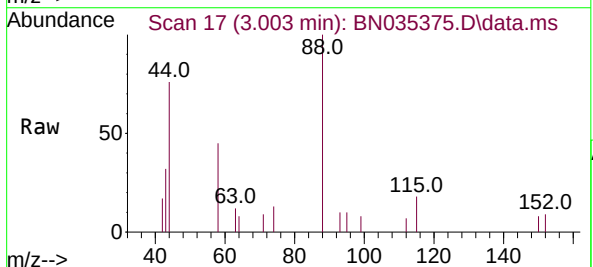
Manual Integrations  
APPROVED

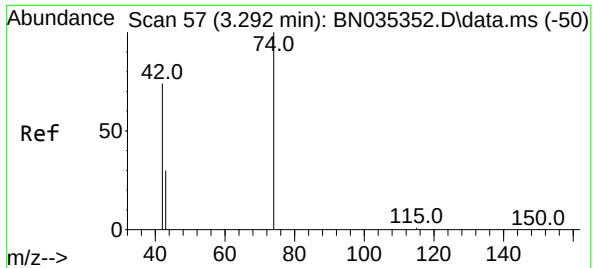
Reviewed By :Yogesh Patel 11/29/2024  
Supervised By :mohammad ahmed 11/29/2024



#2  
1,4-Dioxane  
Concen: 0.396 ng  
RT: 3.003 min Scan# 17  
Delta R.T. 0.000 min  
Lab File: BN035375.D  
Acq: 28 Nov 2024 09:02

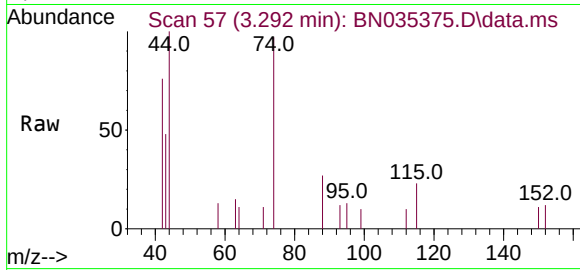
Tgt Ion: 88 Resp: 754  
Ion Ratio Lower Upper  
88 100  
43 20.6 17.2 25.8  
58 53.8 44.5 66.7





#3  
n-Nitrosodimethylamine  
Concen: 0.396 ng  
RT: 3.292 min Scan# 51  
Delta R.T. 0.000 min  
Lab File: BN035375.D  
Acq: 28 Nov 2024 09:02

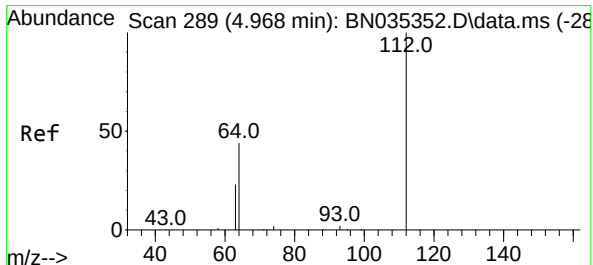
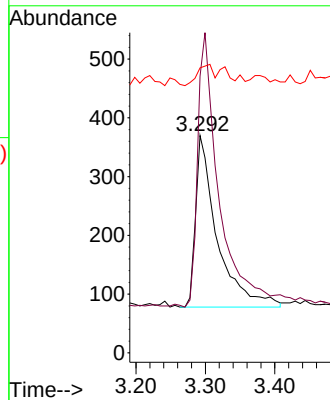
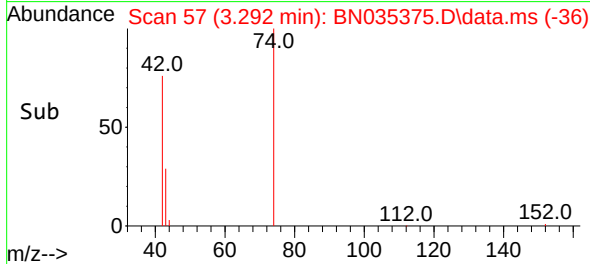
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDCCC0.4EC



Tgt Ion: 42 Resp: 628  
Ion Ratio Lower Upper  
42 100  
74 158.8 124.9 187.3  
44 8.9 2.2 3.4

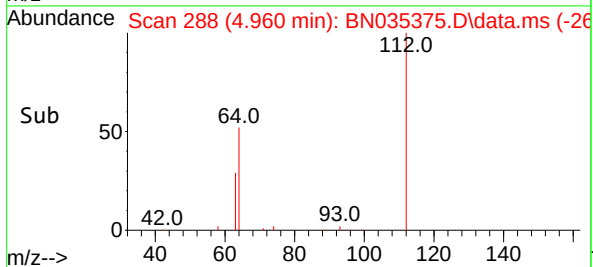
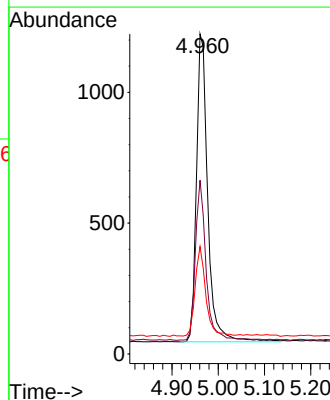
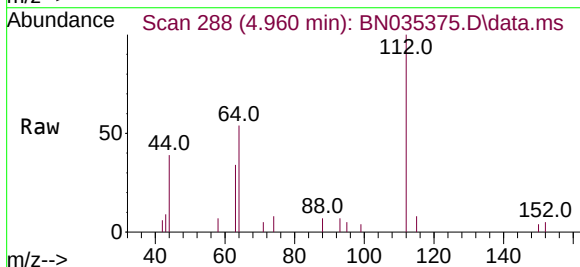
Manual Integrations  
APPROVED

Reviewed By :Yogesh Patel 11/29/2024  
Supervised By :mohammad ahmed 11/29/2024

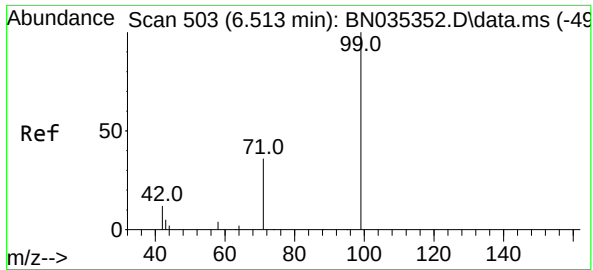


#4  
2-Fluorophenol  
Concen: 0.402 ng  
RT: 4.960 min Scan# 288  
Delta R.T. -0.007 min  
Lab File: BN035375.D  
Acq: 28 Nov 2024 09:02

Tgt Ion:112 Resp: 2006  
Ion Ratio Lower Upper  
112 100  
64 48.5 39.8 59.8  
63 27.4 21.0 31.6







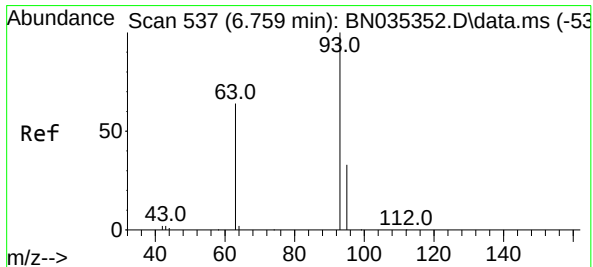
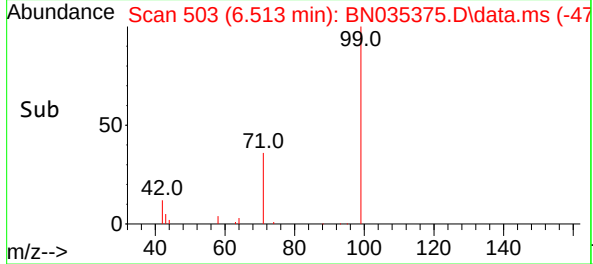
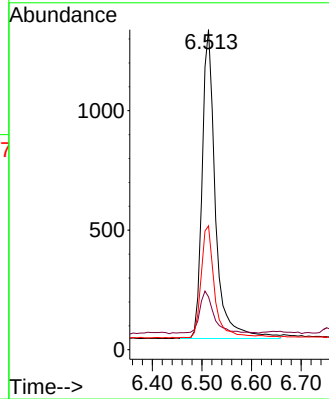
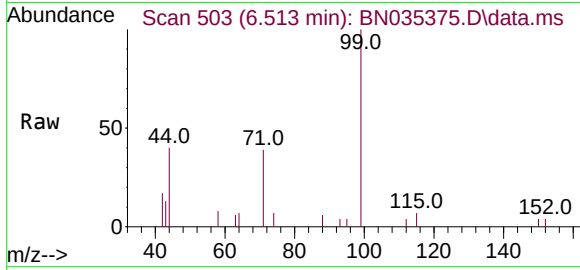
#5  
Phenol-d6  
Concen: 0.403 ng  
RT: 6.513 min Scan# 503  
Delta R.T. 0.000 min  
Lab File: BN035375.D  
Acq: 28 Nov 2024 09:02

Instrument :  
BNA\_N  
ClientSampleId :  
SSTDCCC0.4EC

Tgt Ion: 99 Resp: 241  
Ion Ratio Lower Upper  
99 100  
42 15.5 11.4 17.2  
71 36.5 29.3 43.9

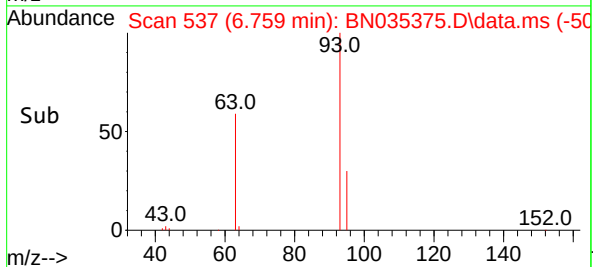
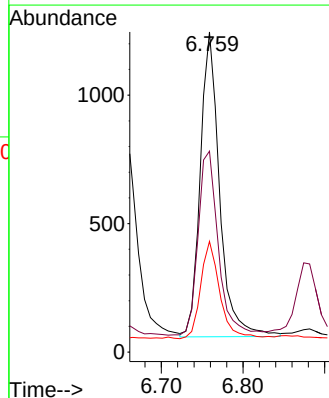
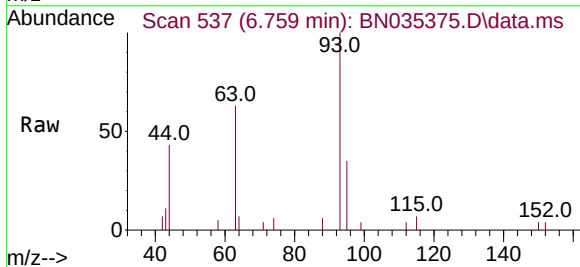
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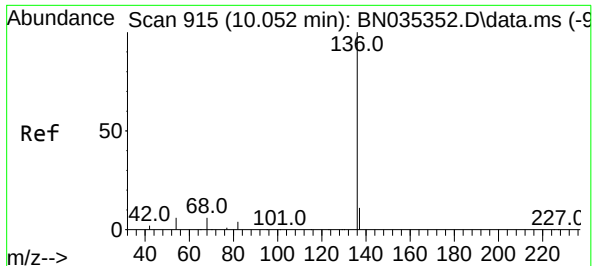
Reviewed By :Yogesh Patel 11/29/2024  
Supervised By :mohammad ahmed 11/29/2024



#6  
bis(2-Chloroethyl)ether  
Concen: 0.389 ng  
RT: 6.759 min Scan# 537  
Delta R.T. 0.000 min  
Lab File: BN035375.D  
Acq: 28 Nov 2024 09:02

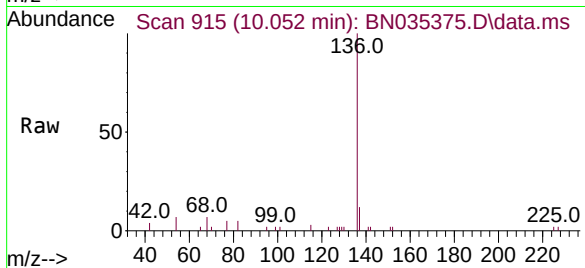
Tgt Ion: 93 Resp: 1960  
Ion Ratio Lower Upper  
93 100  
63 62.9 50.4 75.6  
95 31.6 25.7 38.5





#7  
Naphthalene-d8  
Concen: 0.400 ng  
RT: 10.052 min Scan# 915  
Delta R.T. 0.000 min  
Lab File: BN035375.D  
Acq: 28 Nov 2024 09:02

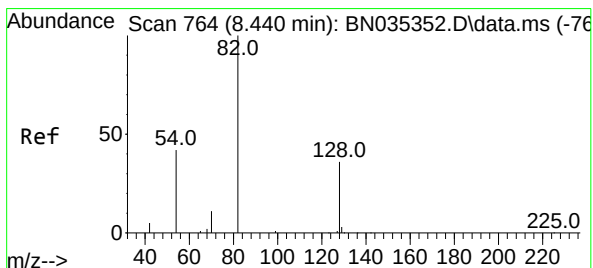
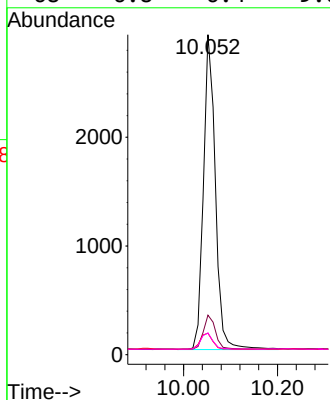
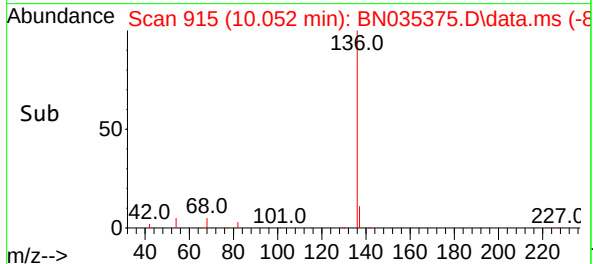
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDCCC0.4EC



| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 136     | 100   |       |       |
| 137     | 12.4  | 10.2  | 15.2  |
| 54      | 6.7   | 6.1   | 9.1   |
| 68      | 6.8   | 6.4   | 9.6   |

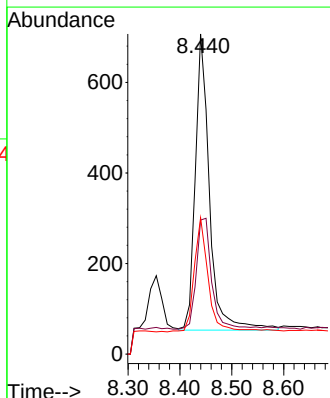
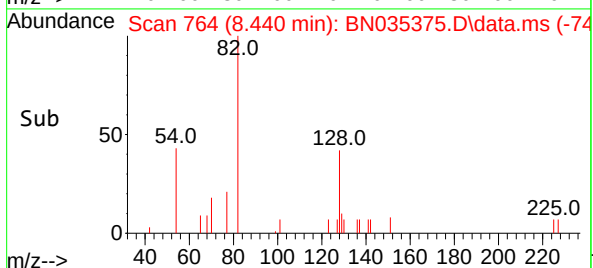
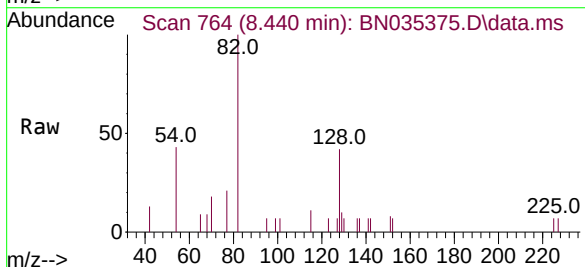
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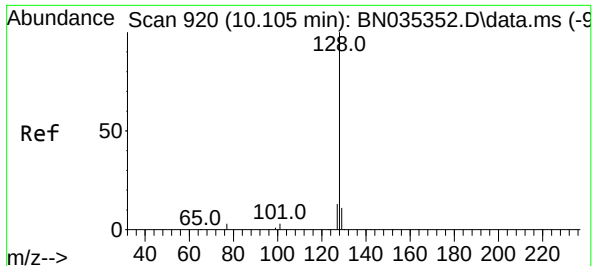
Reviewed By :Yogesh Patel 11/29/2024  
Supervised By :mohammad ahmed 11/29/2024



#8  
Nitrobenzene-d5  
Concen: 0.400 ng m  
RT: 8.440 min Scan# 764  
Delta R.T. 0.000 min  
Lab File: BN035375.D  
Acq: 28 Nov 2024 09:02

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 82      | 100   |       |       |
| 128     | 41.9  | 33.4  | 50.0  |
| 54      | 42.6  | 36.7  | 55.1  |





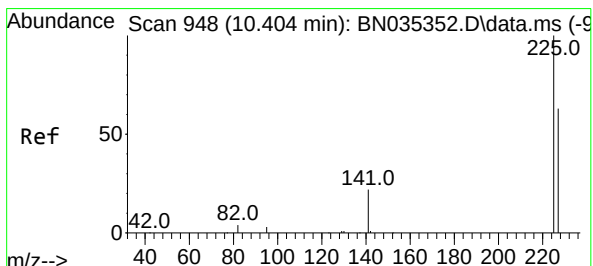
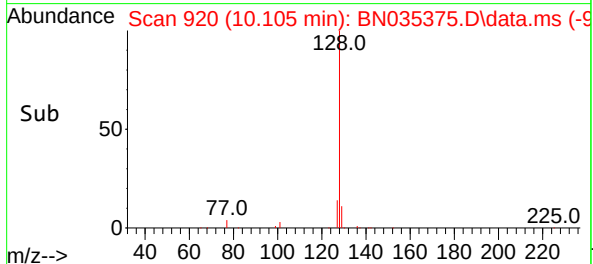
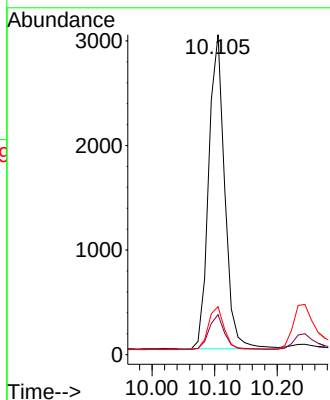
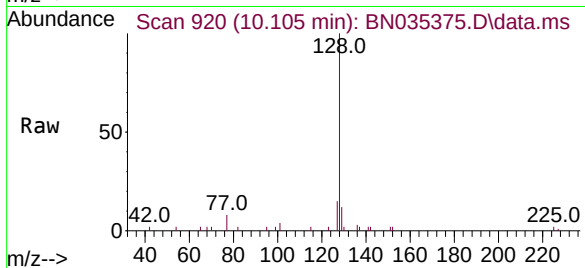
#9  
Naphthalene  
Concen: 0.396 ng  
RT: 10.105 min Scan# 912  
Delta R.T. 0.000 min  
Lab File: BN035375.D  
Acq: 28 Nov 2024 09:02

Instrument :  
BNA\_N  
ClientSampleId :  
SSTDCCC0.4EC

Tgt Ion:128 Resp: 5328  
Ion Ratio Lower Upper  
128 100  
129 12.5 9.8 14.6  
127 15.0 11.4 17.2

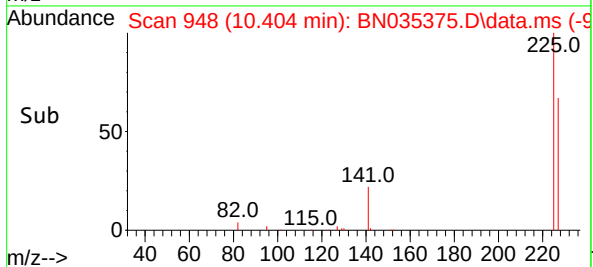
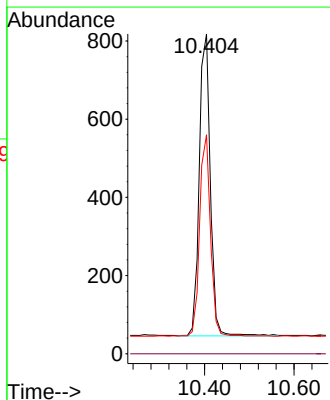
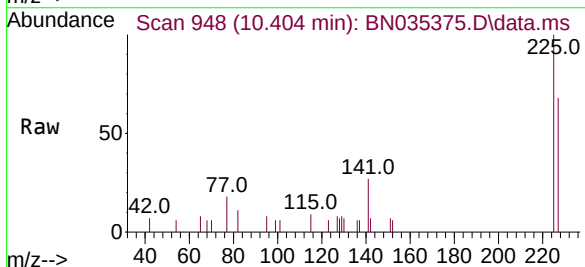
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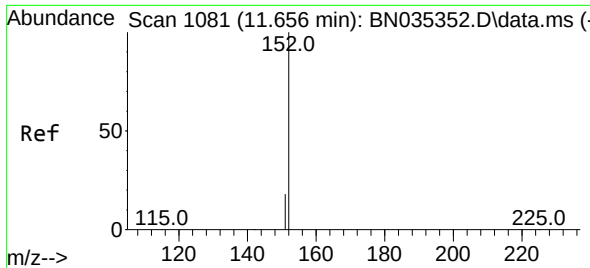
Reviewed By :Yogesh Patel 11/29/2024  
Supervised By :mohammad ahmed 11/29/2024



#10  
Hexachlorobutadiene  
Concen: 0.427 ng  
RT: 10.404 min Scan# 948  
Delta R.T. 0.000 min  
Lab File: BN035375.D  
Acq: 28 Nov 2024 09:02

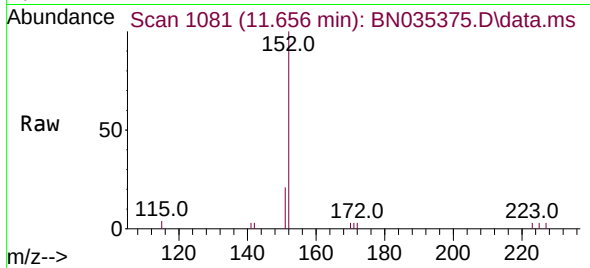
Tgt Ion:225 Resp: 1326  
Ion Ratio Lower Upper  
225 100  
223 0.0 0.0 0.0  
227 65.4 51.3 76.9





#11  
2-Methylnaphthalene-d10  
Concen: 0.392 ng  
RT: 11.656 min Scan# 1081  
Delta R.T. 0.000 min  
Lab File: BN035375.D  
Acq: 28 Nov 2024 09:02

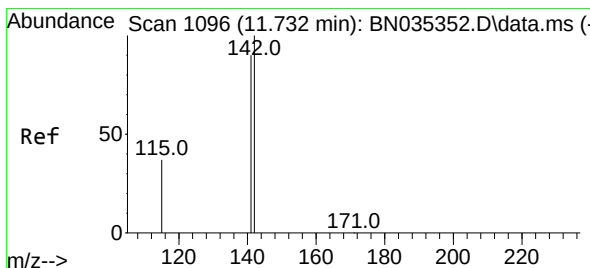
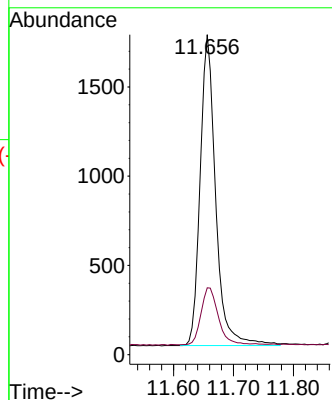
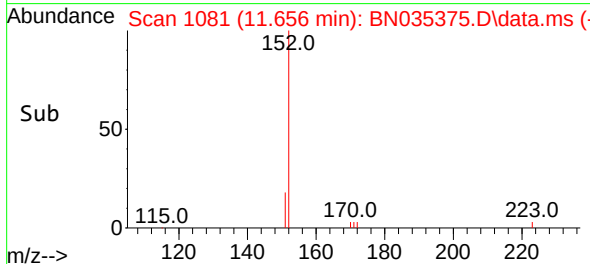
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDCCC0.4EC



Tgt Ion:152 Resp: 3130  
Ion Ratio Lower Upper  
152 100  
151 20.4 16.6 25.0

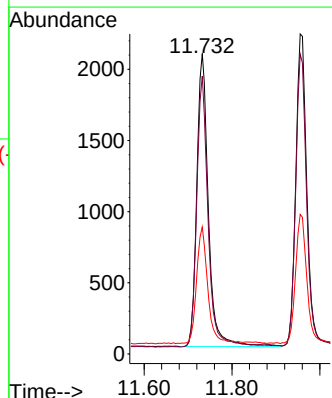
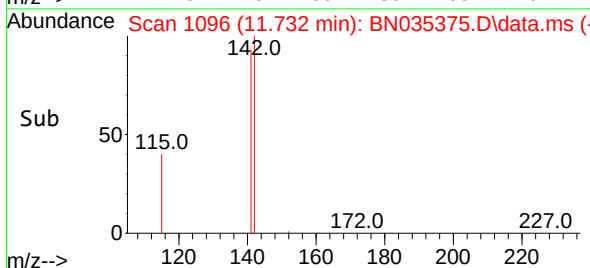
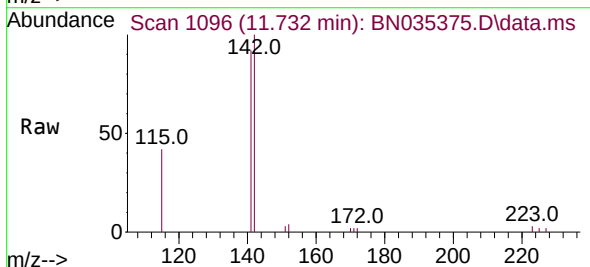
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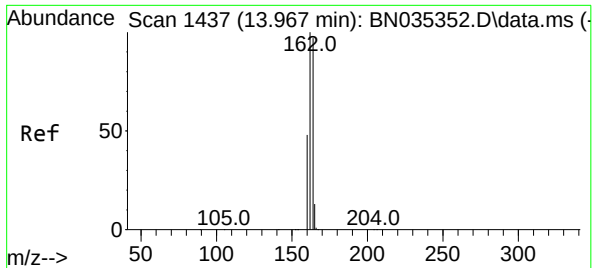
Reviewed By :Yogesh Patel 11/29/2024  
Supervised By :mohammad ahmed 11/29/2024



#12  
2-Methylnaphthalene  
Concen: 0.394 ng  
RT: 11.732 min Scan# 1096  
Delta R.T. 0.000 min  
Lab File: BN035375.D  
Acq: 28 Nov 2024 09:02

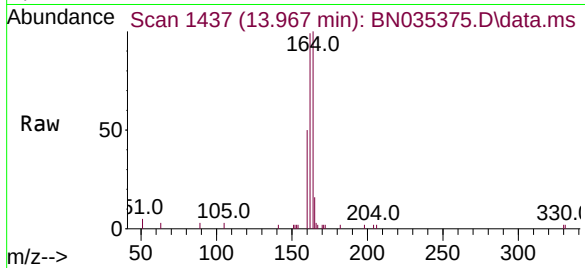
Tgt Ion:142 Resp: 3793  
Ion Ratio Lower Upper  
142 100  
141 92.5 72.2 108.4  
115 42.3 31.4 47.0





#13  
Acenaphthene-d10  
Concen: 0.400 ng  
RT: 13.967 min Scan# 1437  
Delta R.T. 0.000 min  
Lab File: BN035375.D  
Acq: 28 Nov 2024 09:02

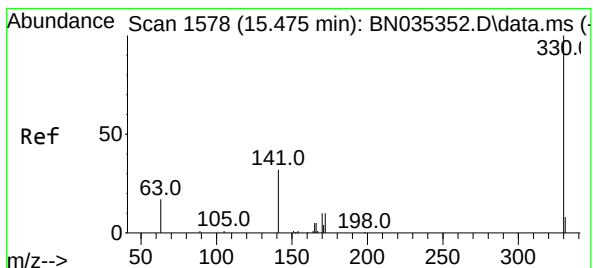
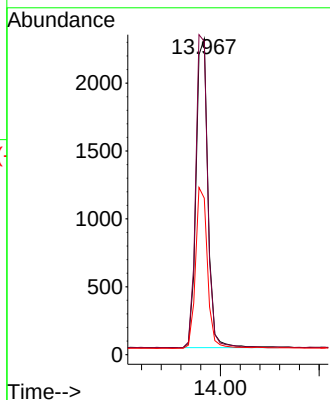
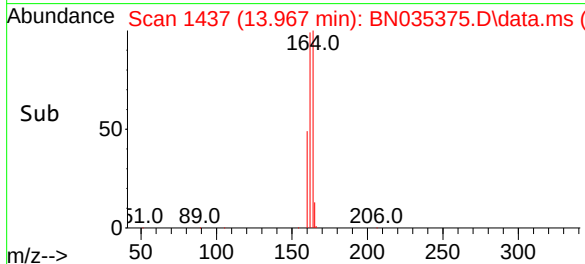
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDCCC0.4EC



Tgt Ion:164 Resp: 3798  
Ion Ratio Lower Upper  
164 100  
162 99.2 82.2 123.2  
160 49.5 40.1 60.1

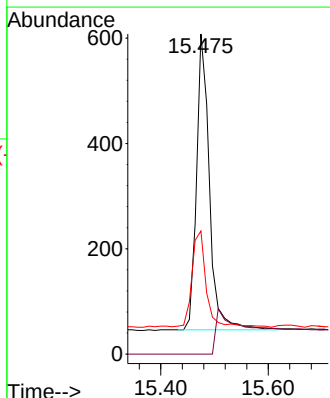
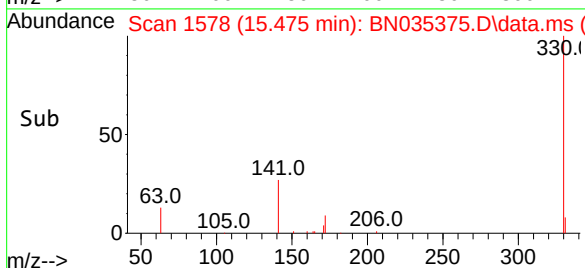
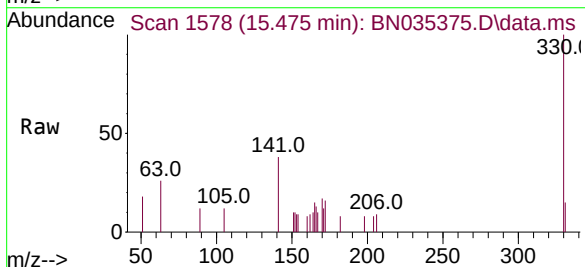
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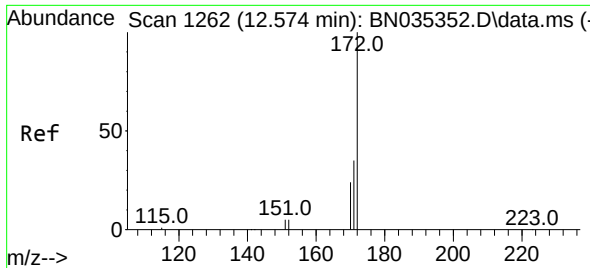
Reviewed By :Yogesh Patel 11/29/2024  
Supervised By :mohammad ahmed 11/29/2024



#14  
2,4,6-Tribromophenol  
Concen: 0.375 ng  
RT: 15.475 min Scan# 1578  
Delta R.T. 0.000 min  
Lab File: BN035375.D  
Acq: 28 Nov 2024 09:02

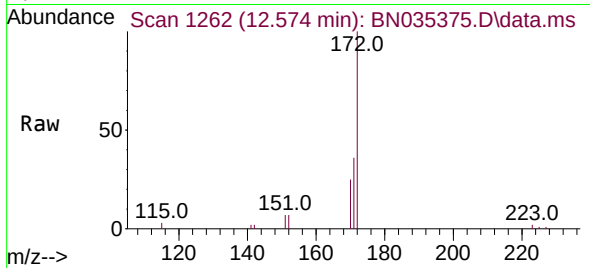
Tgt Ion:330 Resp: 1011  
Ion Ratio Lower Upper  
330 100  
332 0.0 0.0 0.0  
141 35.5 26.6 40.0





#15  
2-Fluorobiphenyl  
Concen: 0.401 ng  
RT: 12.574 min Scan# 1262  
Delta R.T. 0.000 min  
Lab File: BN035375.D  
Acq: 28 Nov 2024 09:02

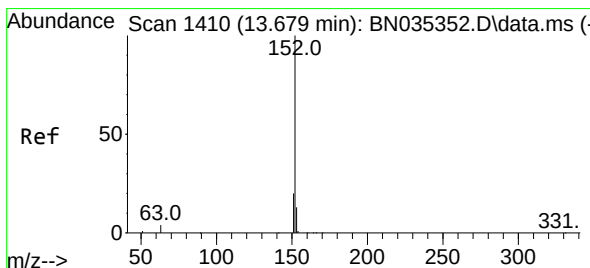
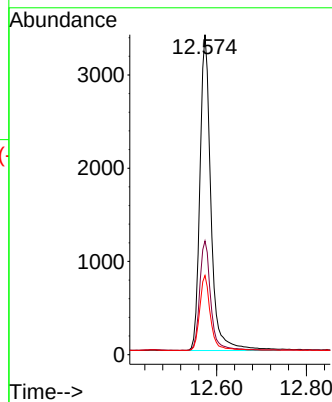
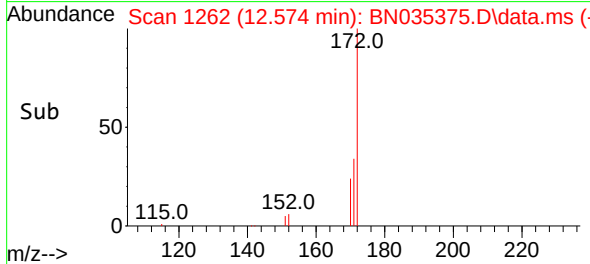
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDCCC0.4EC



Tgt Ion:172 Resp: 5760  
Ion Ratio Lower Upper  
172 100  
171 35.5 29.0 43.4  
170 24.7 19.8 29.8

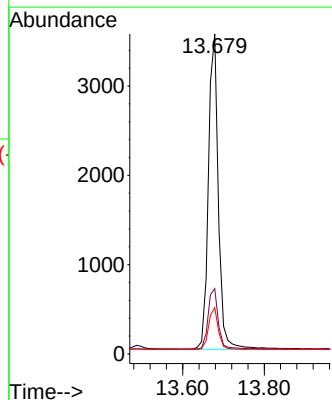
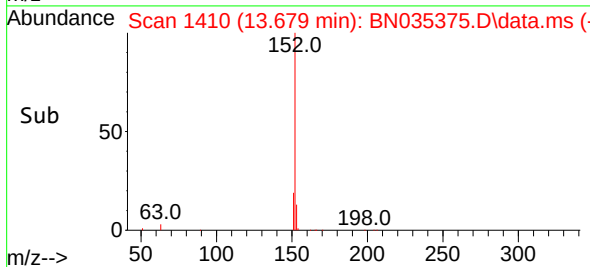
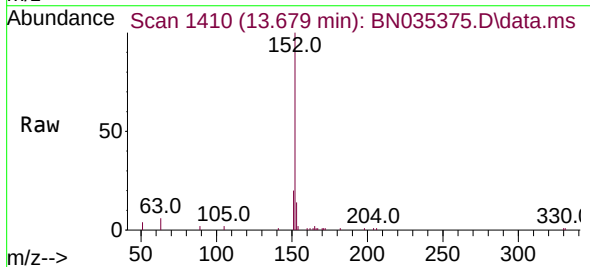
Manual Integrations  
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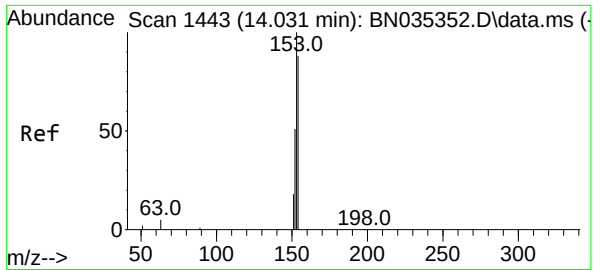
Reviewed By :Yogesh Patel 11/29/2024  
Supervised By :mohammad ahmed 11/29/2024



#16  
Acenaphthylene  
Concen: 0.378 ng  
RT: 13.679 min Scan# 1410  
Delta R.T. 0.000 min  
Lab File: BN035375.D  
Acq: 28 Nov 2024 09:02

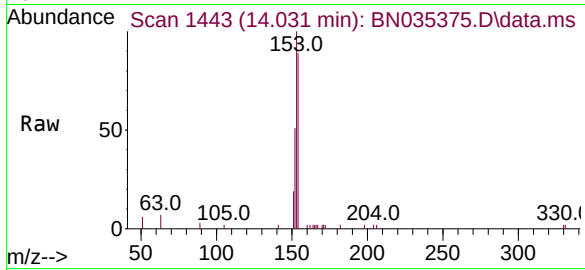
Tgt Ion:152 Resp: 6028  
Ion Ratio Lower Upper  
152 100  
151 19.5 16.2 24.2  
153 12.9 10.4 15.6





#17  
Acenaphthene  
Concen: 0.388 ng  
RT: 14.031 min Scan# 1443  
Delta R.T. 0.000 min  
Lab File: BN035375.D  
Acq: 28 Nov 2024 09:02

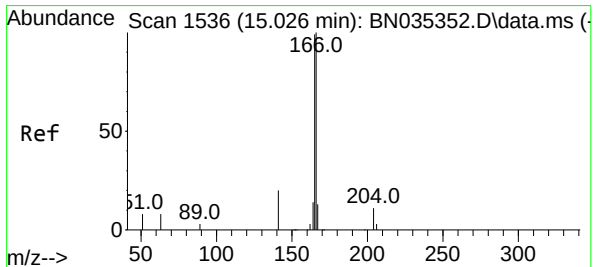
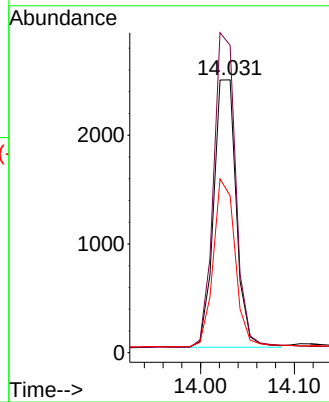
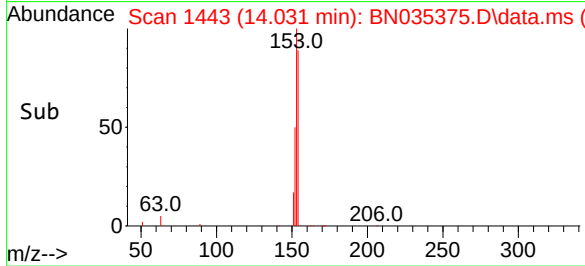
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDCCC0.4EC



Tgt Ion:154 Resp: 4100  
Ion Ratio Lower Upper  
154 100  
153 117.0 92.6 139.0  
152 61.6 49.0 73.6

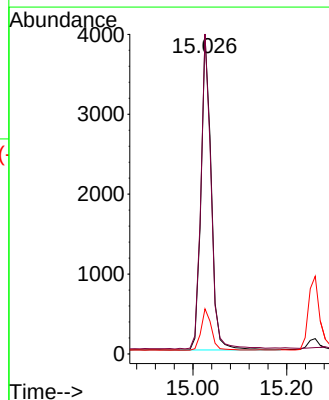
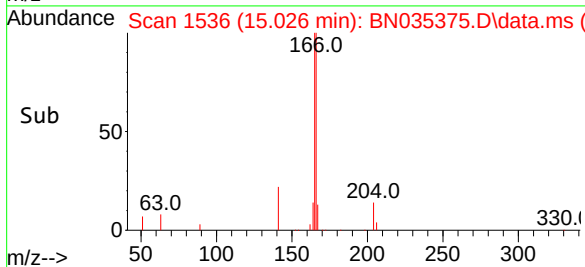
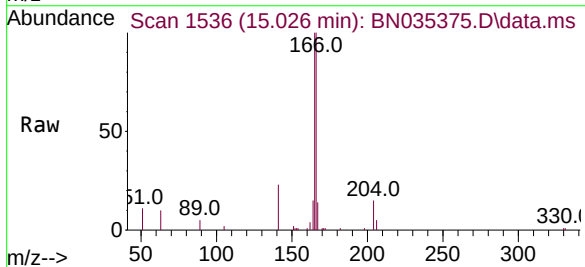
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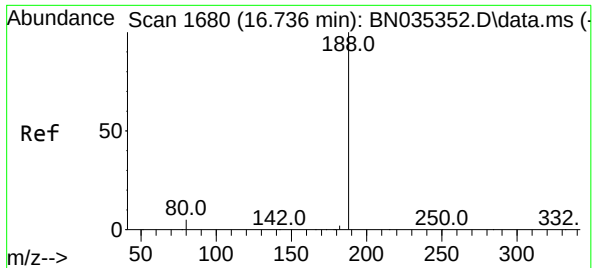
Reviewed By :Yogesh Patel 11/29/2024  
Supervised By :mohammad ahmed 11/29/2024



#18  
Fluorene  
Concen: 0.392 ng  
RT: 15.026 min Scan# 1536  
Delta R.T. 0.000 min  
Lab File: BN035375.D  
Acq: 28 Nov 2024 09:02

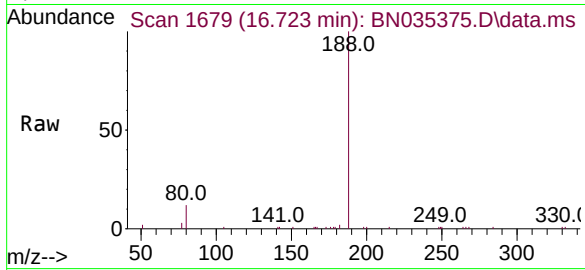
Tgt Ion:166 Resp: 5935  
Ion Ratio Lower Upper  
166 100  
165 99.5 79.7 119.5  
167 13.3 10.8 16.2





#19  
Phenanthrene-d10  
Concen: 0.400 ng  
RT: 16.723 min Scan# 1679  
Delta R.T. -0.012 min  
Lab File: BN035375.D  
Acq: 28 Nov 2024 09:02

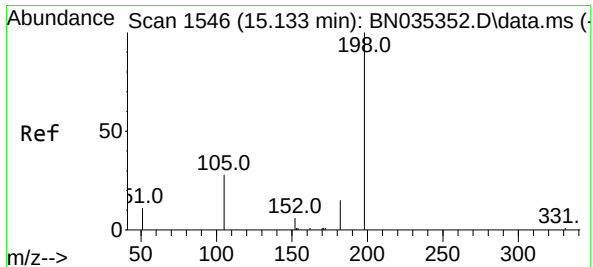
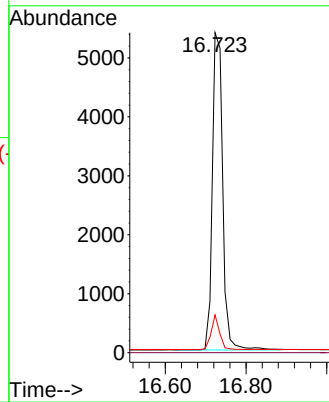
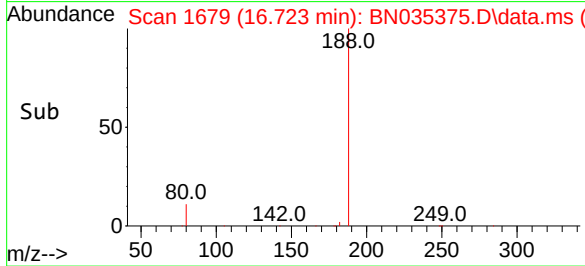
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDCCC0.4EC



Tgt Ion:188 Resp: 956  
Ion Ratio Lower Upper  
188 100  
94 0.0 0.0 0.0  
80 11.8 4.6 6.8

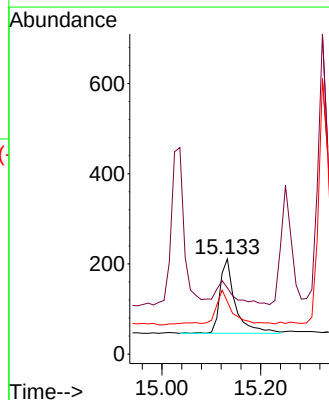
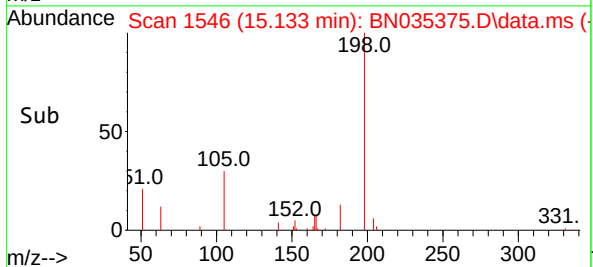
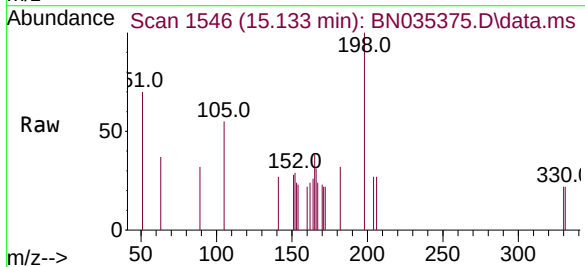
Manual Integrations  
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Reviewed By :Yogesh Patel 11/29/2024  
Supervised By :mohammad ahmed 11/29/2024

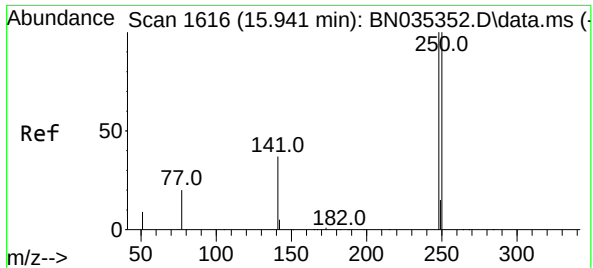


#20  
4,6-Dinitro-2-methylphenol  
Concen: 0.380 ng  
RT: 15.133 min Scan# 1546  
Delta R.T. -0.000 min  
Lab File: BN035375.D  
Acq: 28 Nov 2024 09:02

Tgt Ion:198 Resp: 357  
Ion Ratio Lower Upper  
198 100  
51 69.7 46.5 69.7  
105 55.0 45.3 67.9

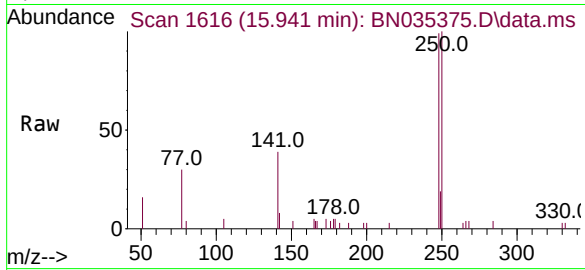






#21  
4-Bromophenyl-phenylether  
Concen: 0.394 ng  
RT: 15.941 min Scan# 1616  
Delta R.T. 0.000 min  
Lab File: BN035375.D  
Acq: 28 Nov 2024 09:02

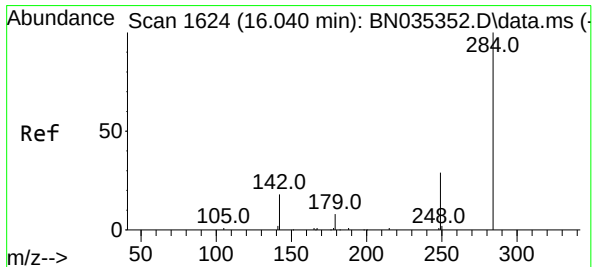
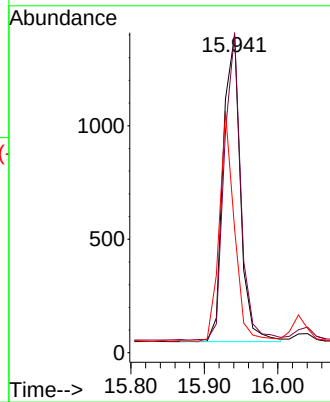
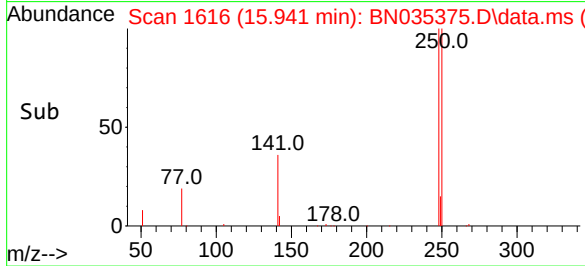
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDCCC0.4EC



Tgt Ion:248 Resp: 2200  
Ion Ratio Lower Upper  
248 100  
250 100.7 80.6 120.8  
141 38.9 31.5 47.3

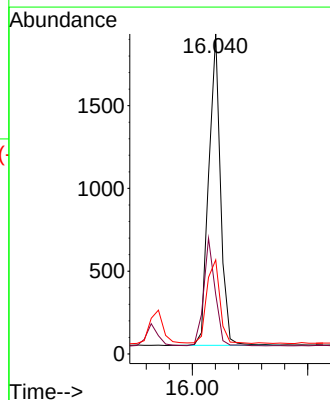
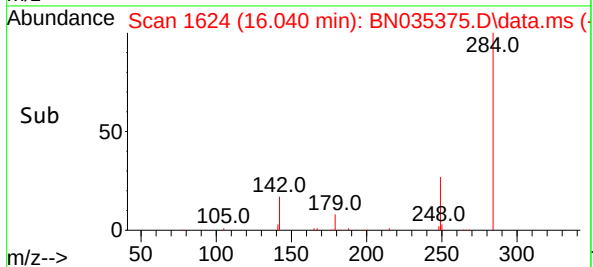
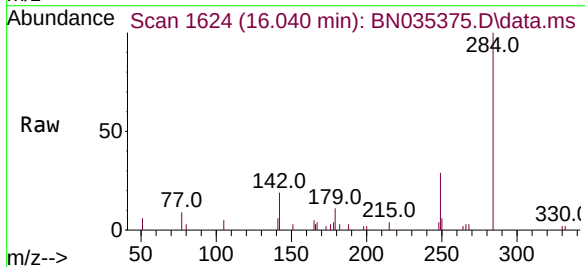
Manual Integrations  
**APPROVED**

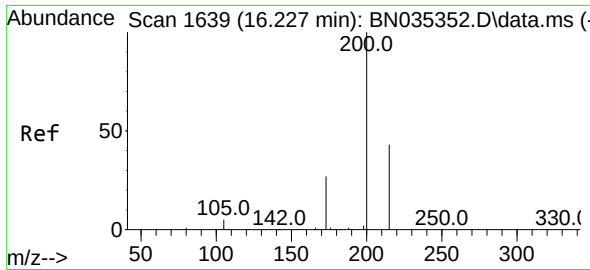
Reviewed By :Yogesh Patel 11/29/2024  
Supervised By :mohammad ahmed 11/29/2024



#22  
Hexachlorobenzene  
Concen: 0.404 ng  
RT: 16.040 min Scan# 1624  
Delta R.T. 0.000 min  
Lab File: BN035375.D  
Acq: 28 Nov 2024 09:02

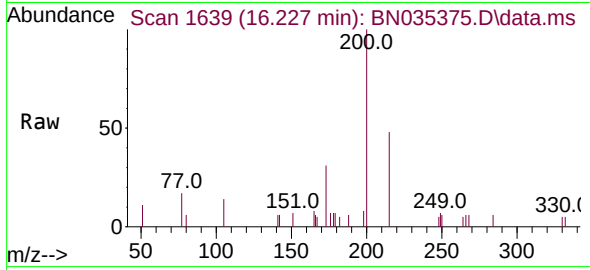
Tgt Ion:284 Resp: 2655  
Ion Ratio Lower Upper  
284 100  
142 33.9 26.7 40.1  
249 30.2 24.6 36.8





#23  
Atrazine  
Concen: 0.347 ng  
RT: 16.227 min Scan# 1639  
Delta R.T. 0.000 min  
Lab File: BN035375.D  
Acq: 28 Nov 2024 09:02

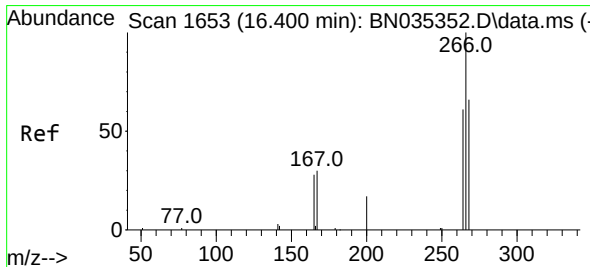
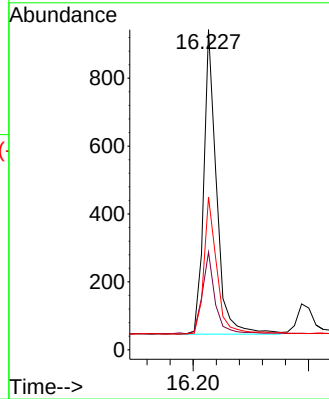
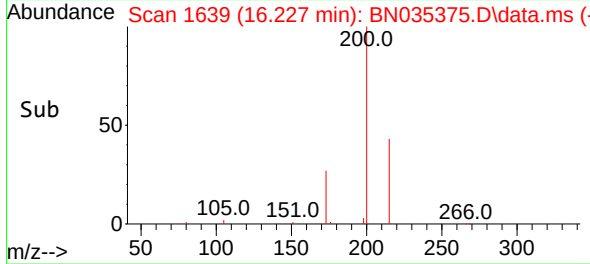
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDCCC0.4EC



Tgt Ion:200 Resp: 1384  
Ion Ratio Lower Upper  
200 100  
173 30.5 24.1 36.1  
215 47.7 36.9 55.3

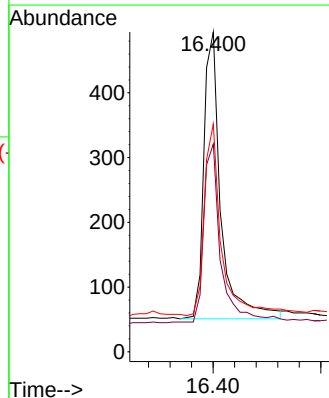
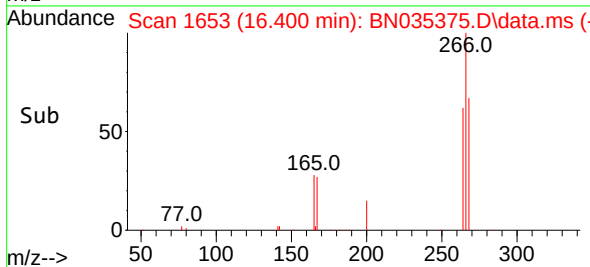
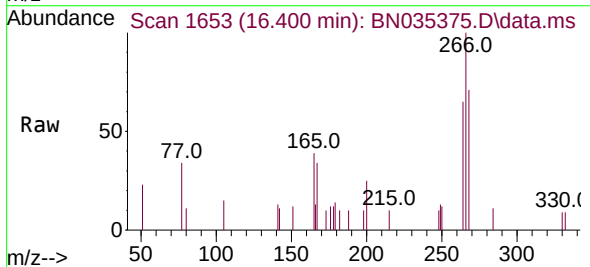
Manual Integrations  
APPROVED

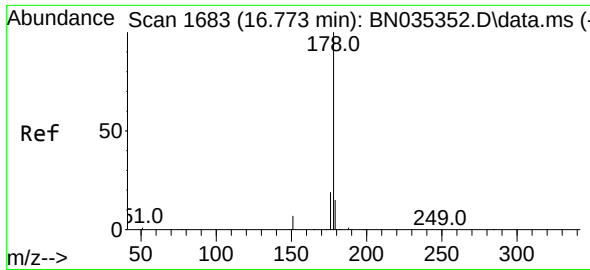
Reviewed By :Yogesh Patel 11/29/2024  
Supervised By :mohammad ahmed 11/29/2024



#24  
Pentachlorophenol  
Concen: 0.340 ng  
RT: 16.400 min Scan# 1653  
Delta R.T. 0.000 min  
Lab File: BN035375.D  
Acq: 28 Nov 2024 09:02

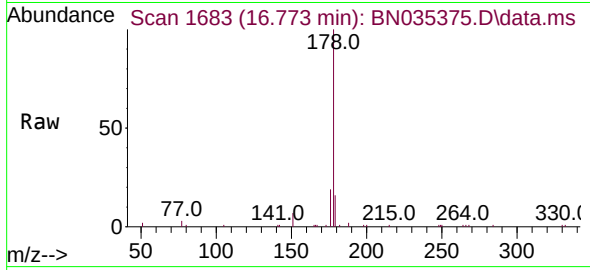
Tgt Ion:266 Resp: 973  
Ion Ratio Lower Upper  
266 100  
264 62.7 42.3 63.5  
268 67.7 43.3 64.9#





#25  
Phenanthrene  
Concen: 0.388 ng  
RT: 16.773 min Scan# 1683  
Delta R.T. 0.000 min  
Lab File: BN035375.D  
Acq: 28 Nov 2024 09:02

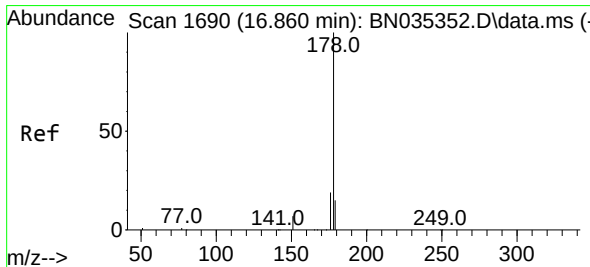
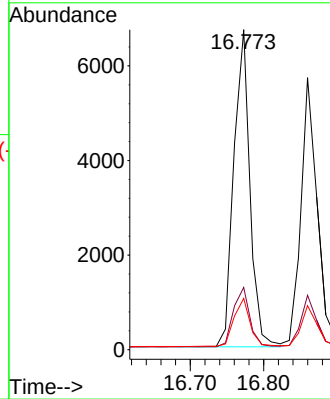
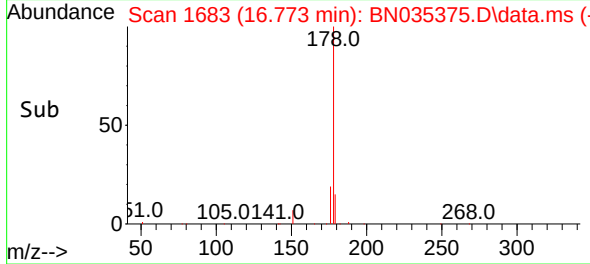
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDCCC0.4EC



Tgt Ion:178 Resp: 10204  
Ion Ratio Lower Upper  
178 100  
176 19.1 15.4 23.2  
179 15.4 12.3 18.5

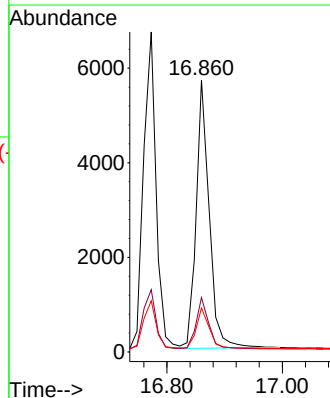
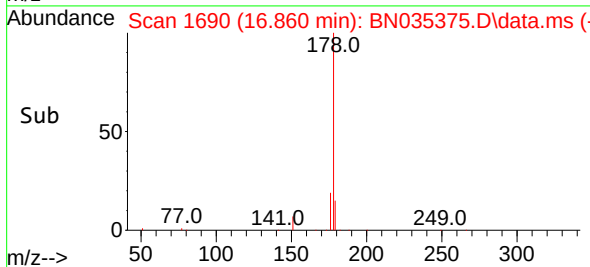
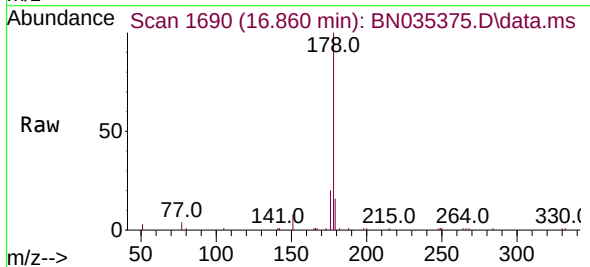
Manual Integrations  
**APPROVED**

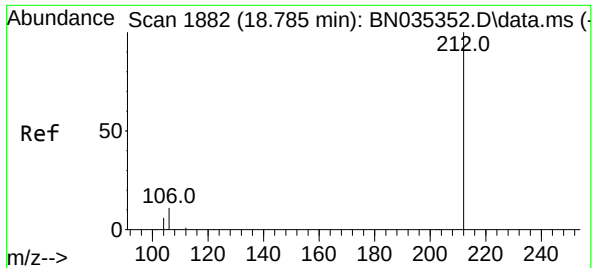
Reviewed By :Yogesh Patel 11/29/2024  
Supervised By :mohammad ahmed 11/29/2024



#26  
Anthracene  
Concen: 0.376 ng  
RT: 16.860 min Scan# 1690  
Delta R.T. 0.000 min  
Lab File: BN035375.D  
Acq: 28 Nov 2024 09:02

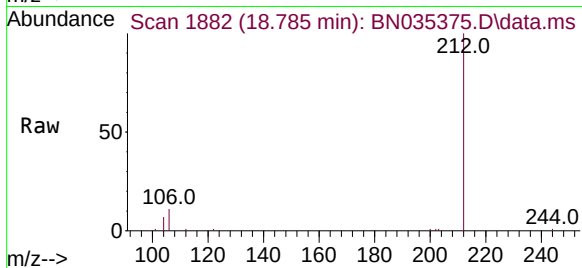
Tgt Ion:178 Resp: 8929  
Ion Ratio Lower Upper  
178 100  
176 18.7 15.0 22.6  
179 15.5 12.6 18.8





#27  
Fluoranthene-d10  
Concen: 0.373 ng  
RT: 18.785 min Scan# 1882  
Delta R.T. 0.000 min  
Lab File: BN035375.D  
Acq: 28 Nov 2024 09:02

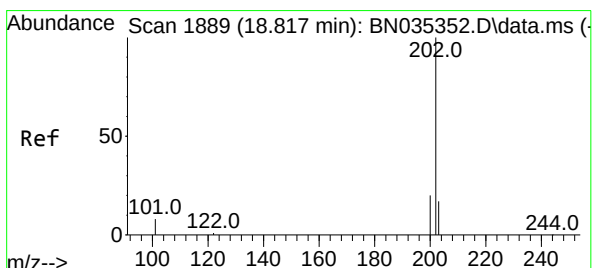
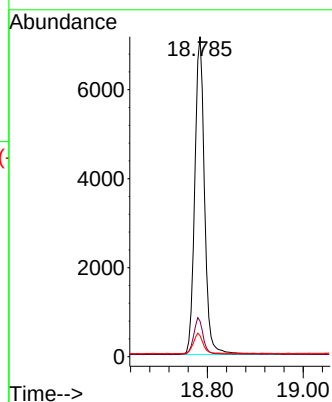
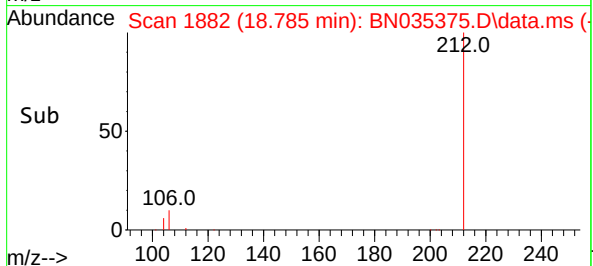
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDCCC0.4EC



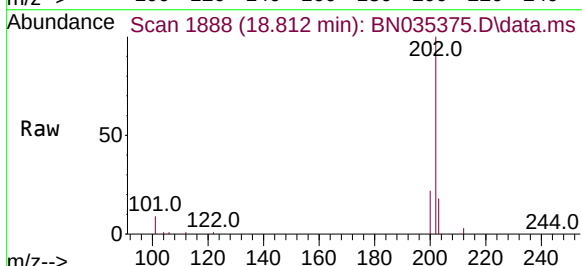
Tgt Ion:212 Resp: 10104  
Ion Ratio Lower Upper  
212 100  
106 11.1 9.2 13.8  
104 6.3 5.3 7.9

Manual Integrations  
APPROVED

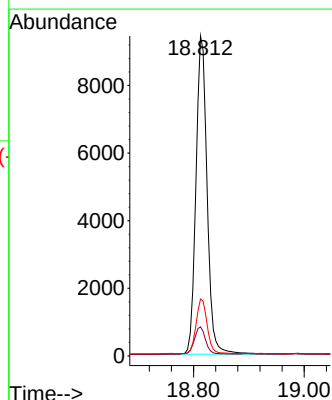
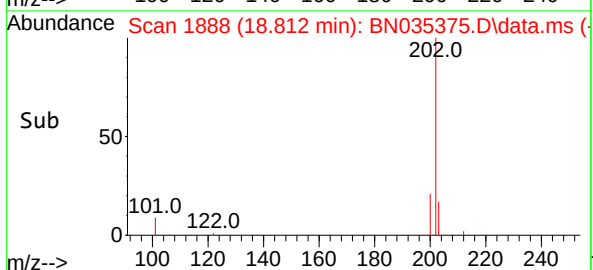
Reviewed By :Yogesh Patel 11/29/2024  
Supervised By :mohammad ahmed 11/29/2024

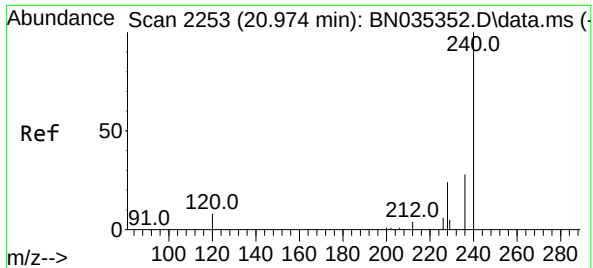


#28  
Fluoranthene  
Concen: 0.373 ng  
RT: 18.812 min Scan# 1888  
Delta R.T. -0.005 min  
Lab File: BN035375.D  
Acq: 28 Nov 2024 09:02



Tgt Ion:202 Resp: 13216  
Ion Ratio Lower Upper  
202 100  
101 8.6 7.4 11.0  
203 17.0 13.7 20.5





#29

Chrysene-d12

Concen: 0.400 ng

RT: 20.974 min Scan# 21

Delta R.T. 0.000 min

Lab File: BN035375.D

Acq: 28 Nov 2024 09:02

Instrument :

BNA\_N

ClientSampleId :

SSTDCCC0.4EC

Tgt Ion:240 Resp: 922

Ion Ratio Lower Upper

240 100

120 8.9 7.9 11.9

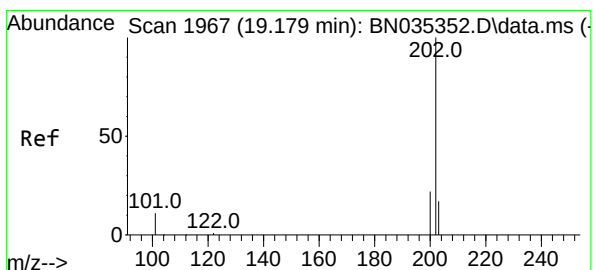
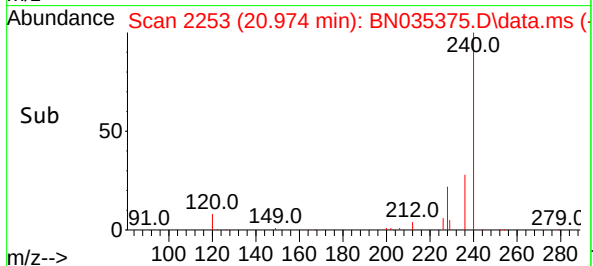
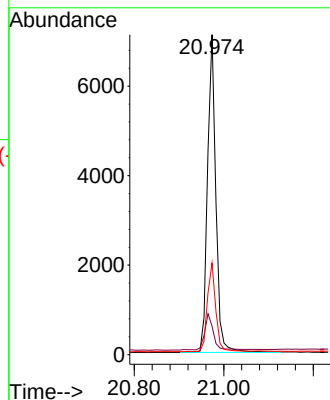
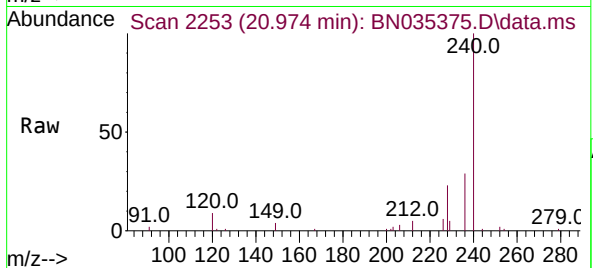
236 28.6 22.9 34.3

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 11/29/2024

Supervised By :mohammad ahmed 11/29/2024



#30

Pyrene

Concen: 0.403 ng

RT: 19.179 min Scan# 1967

Delta R.T. 0.000 min

Lab File: BN035375.D

Acq: 28 Nov 2024 09:02

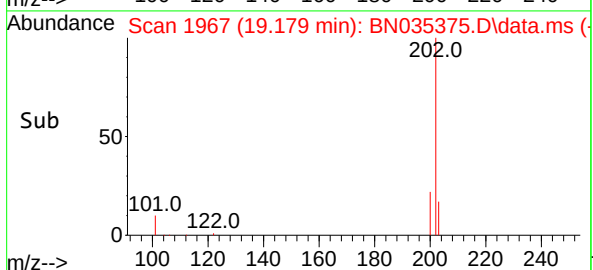
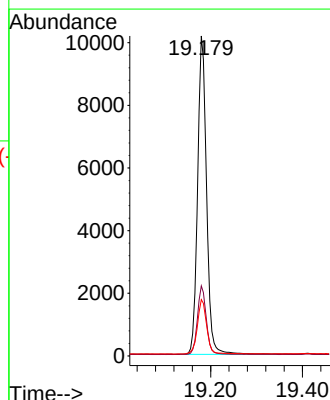
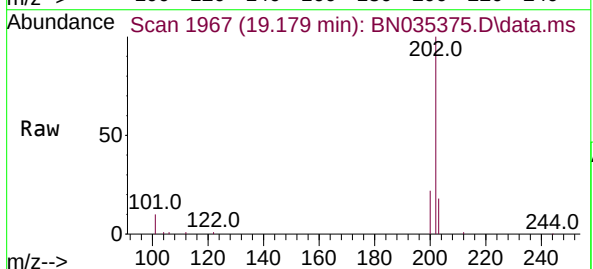
Tgt Ion:202 Resp: 13731

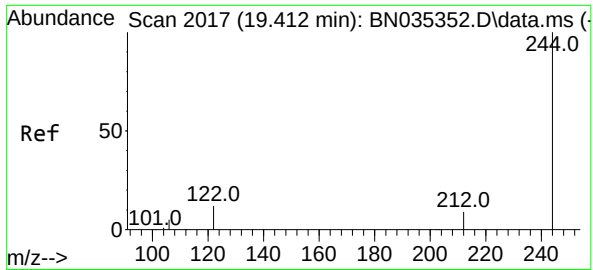
Ion Ratio Lower Upper

202 100

200 21.3 17.0 25.4

203 17.8 14.3 21.5





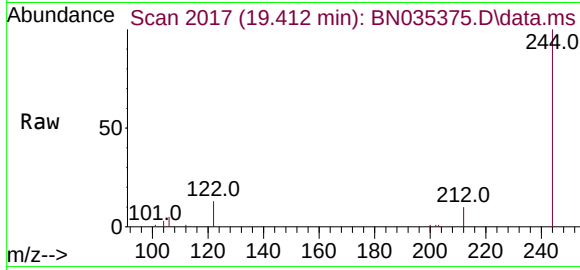
#31  
Terphenyl-d14  
Concen: 0.399 ng  
RT: 19.412 min Scan# 2017  
Delta R.T. 0.000 min  
Lab File: BN035375.D  
Acq: 28 Nov 2024 09:02

Instrument :

BNA\_N

ClientSampleId :

SSTDCCC0.4EC



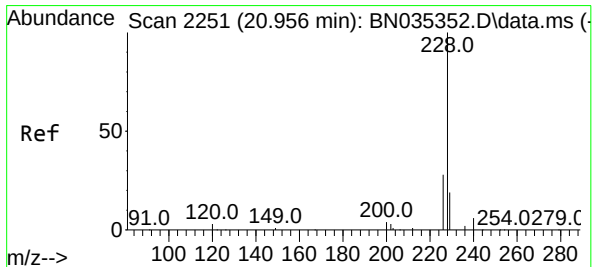
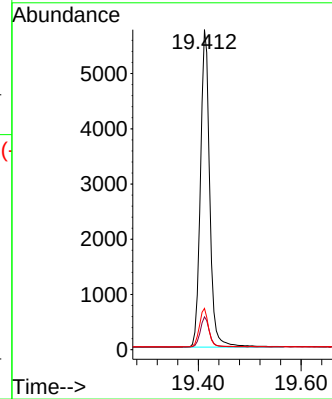
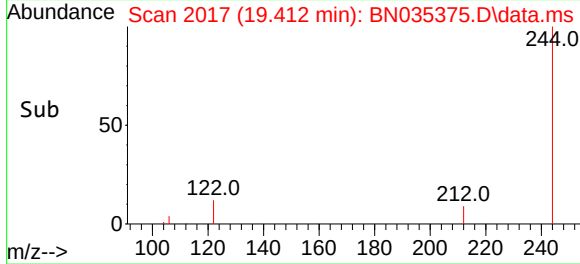
Tgt Ion:244 Resp: 725  
Ion Ratio Lower Upper  
244 100  
212 10.3 8.1 12.1  
122 12.9 10.3 15.5

Manual Integrations

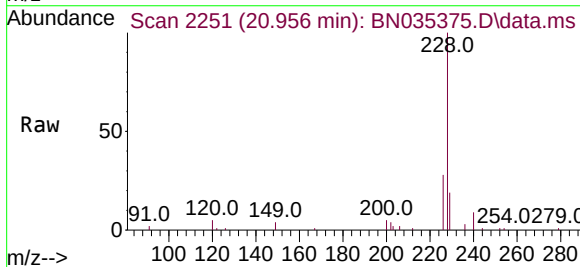
APPROVED

Reviewed By :Yogesh Patel 11/29/2024

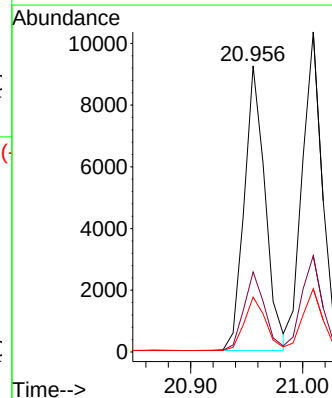
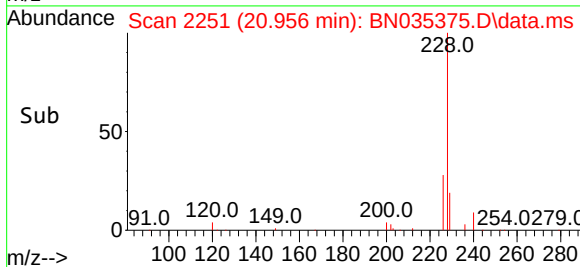
Supervised By :mohammad ahmed 11/29/2024

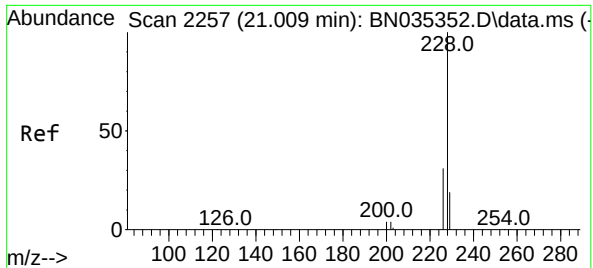


#32  
Benzo(a)anthracene  
Concen: 0.372 ng  
RT: 20.956 min Scan# 2251  
Delta R.T. 0.000 min  
Lab File: BN035375.D  
Acq: 28 Nov 2024 09:02



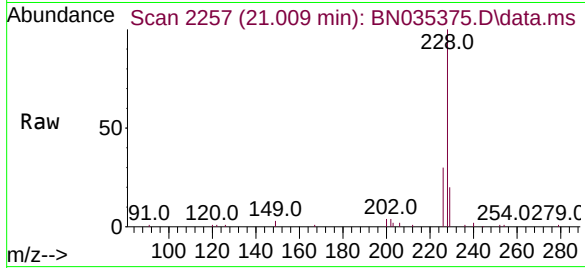
Tgt Ion:228 Resp: 11985  
Ion Ratio Lower Upper  
228 100  
226 28.0 22.5 33.7  
229 19.2 15.8 23.8





#33  
Chrysene  
Concen: 0.402 ng  
RT: 21.009 min Scan# 2100  
Delta R.T. 0.000 min  
Lab File: BN035375.D  
Acq: 28 Nov 2024 09:02

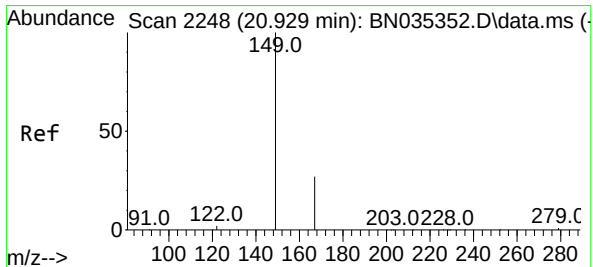
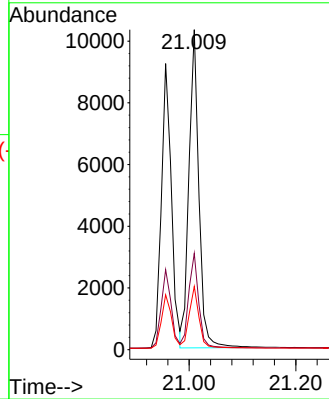
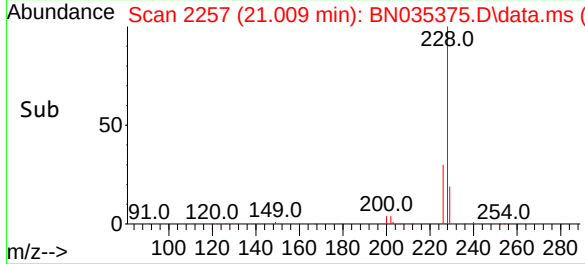
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDCCC0.4EC



Tgt Ion:228 Resp: 1336  
Ion Ratio Lower Upper  
228 100  
226 30.1 24.6 37.0  
229 19.8 15.9 23.9

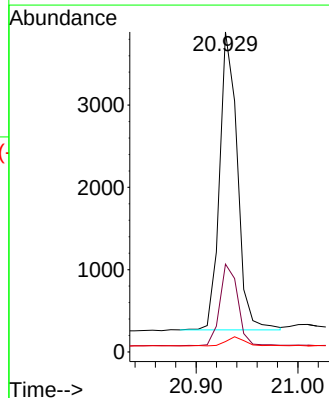
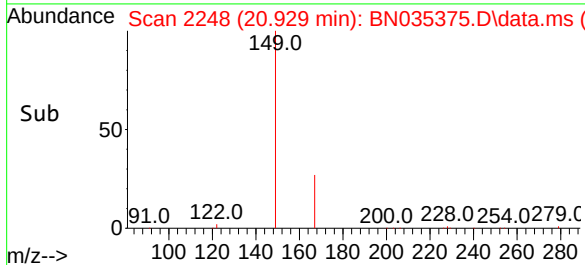
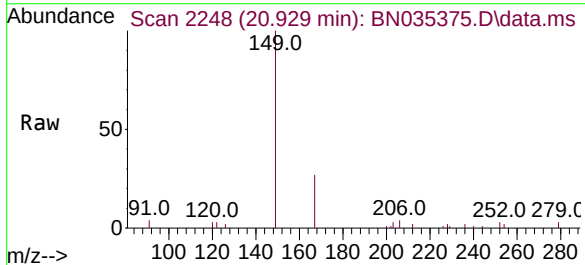
Manual Integrations  
**APPROVED**

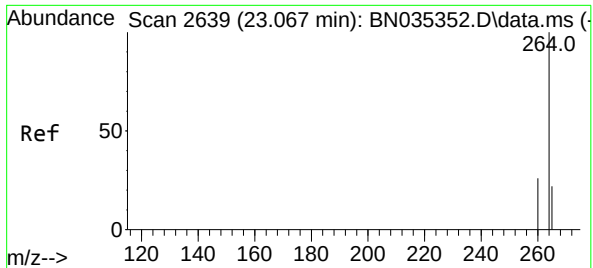
Reviewed By :Yogesh Patel 11/29/2024  
Supervised By :mohammad ahmed 11/29/2024



#34  
Bis(2-ethylhexyl)phthalate  
Concen: 0.344 ng  
RT: 20.929 min Scan# 2248  
Delta R.T. 0.000 min  
Lab File: BN035375.D  
Acq: 28 Nov 2024 09:02

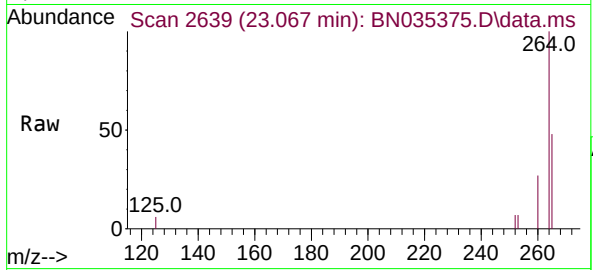
Tgt Ion:149 Resp: 4380  
Ion Ratio Lower Upper  
149 100  
167 27.8 22.2 33.4  
279 3.3 2.7 4.1





#35  
Perylene-d12  
Concen: 0.400 ng  
RT: 23.067 min Scan# 2639  
Delta R.T. 0.000 min  
Lab File: BN035375.D  
Acq: 28 Nov 2024 09:02

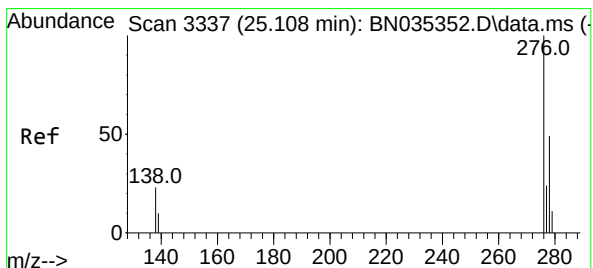
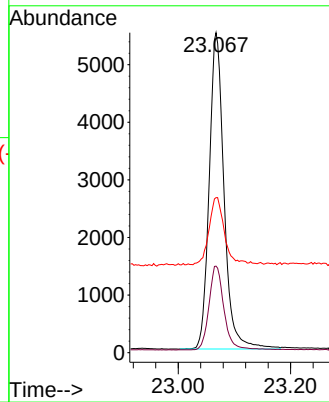
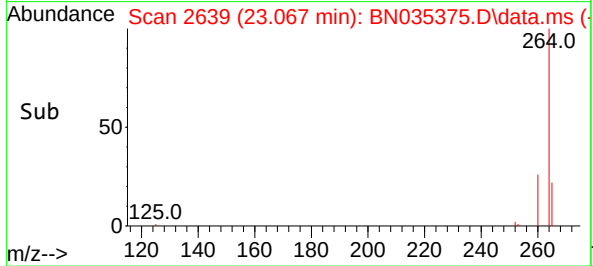
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDCCC0.4EC



Tgt Ion:264 Resp: 1008  
Ion Ratio Lower Upper  
264 100  
260 27.0 21.4 32.2  
265 48.5 40.2 60.4

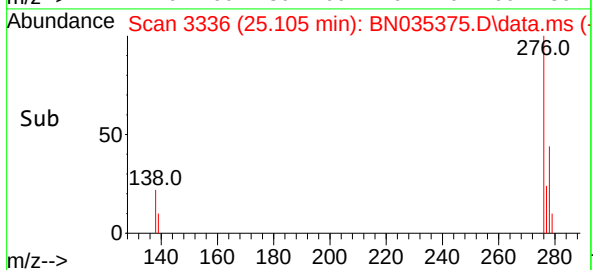
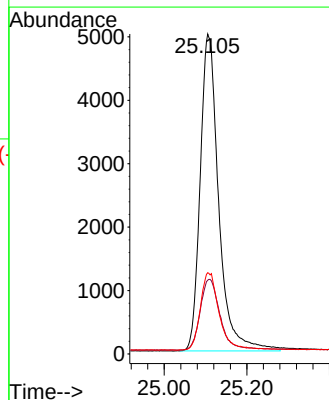
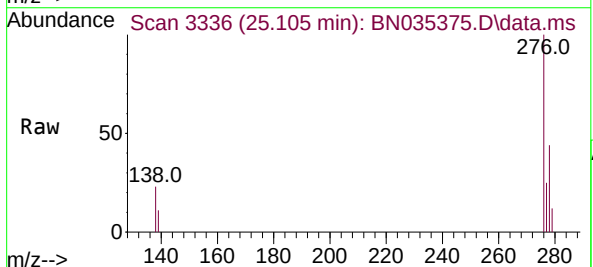
Manual Integrations  
APPROVED

Reviewed By :Yogesh Patel 11/29/2024  
Supervised By :mohammad ahmed 11/29/2024

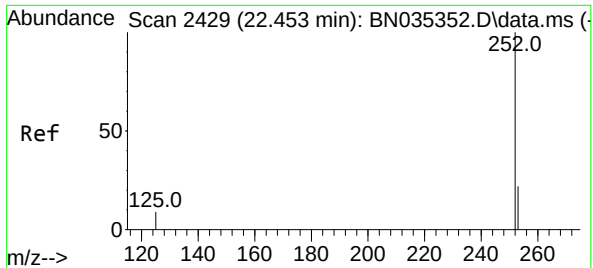


#36  
Indeno(1,2,3-cd)pyrene  
Concen: 0.394 ng  
RT: 25.105 min Scan# 3336  
Delta R.T. -0.003 min  
Lab File: BN035375.D  
Acq: 28 Nov 2024 09:02

Tgt Ion:276 Resp: 15538  
Ion Ratio Lower Upper  
276 100  
138 23.6 19.4 29.0  
277 24.8 19.8 29.6







#37

Benzo(b)fluoranthene

Concen: 0.361 ng

RT: 22.453 min Scan# 2429

Delta R.T. 0.000 min

Lab File: BN035375.D

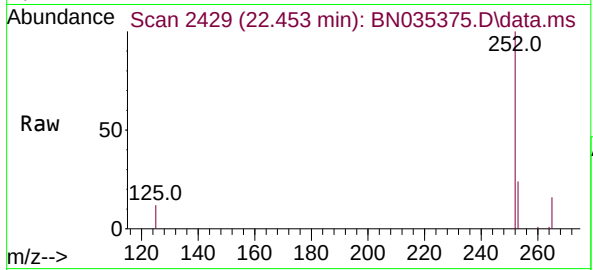
Acq: 28 Nov 2024 09:02

Instrument :

BNA\_N

ClientSampleId :

SSTDCCC0.4EC



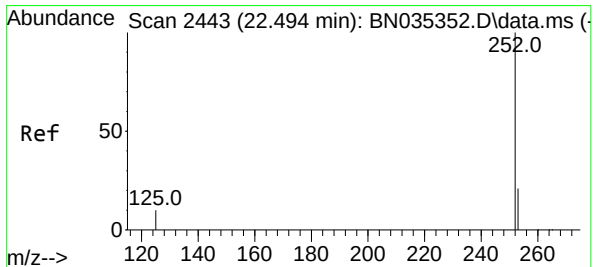
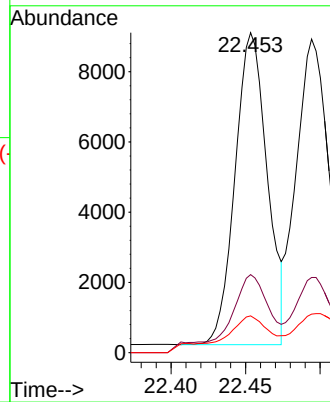
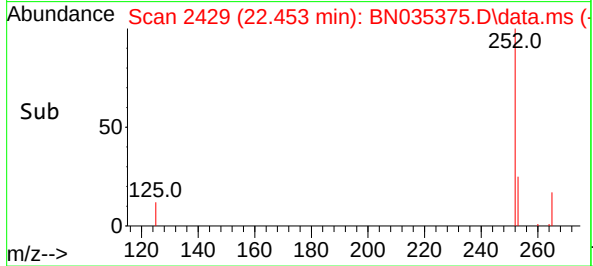
|           |       |       |      |
|-----------|-------|-------|------|
| Tgt Ion:  | 252   | Resp: | 1332 |
| Ion Ratio | Lower | Upper |      |
| 252       | 100   |       |      |
| 253       | 24.4  | 19.6  | 29.4 |
| 125       | 11.5  | 9.6   | 14.4 |

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 11/29/2024

Supervised By :mohammad ahmed 11/29/2024



#38

Benzo(k)fluoranthene

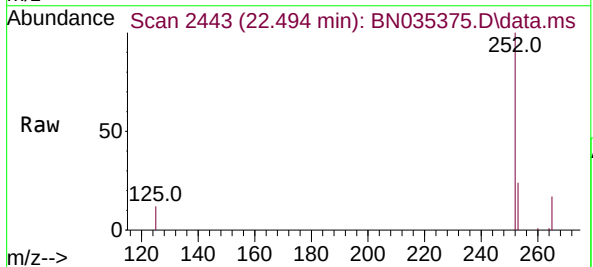
Concen: 0.397 ng

RT: 22.494 min Scan# 2443

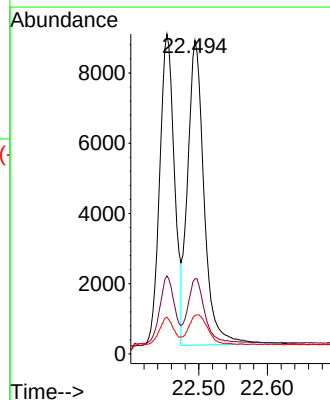
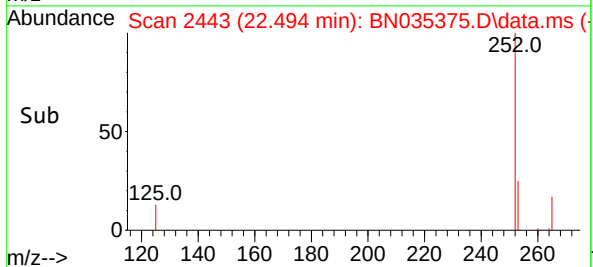
Delta R.T. 0.000 min

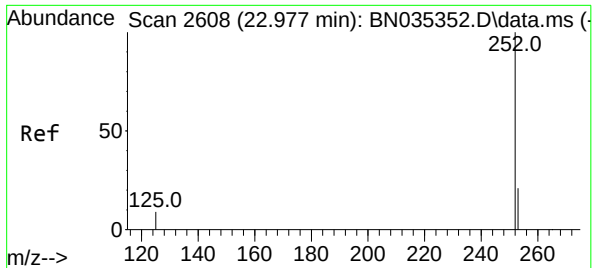
Lab File: BN035375.D

Acq: 28 Nov 2024 09:02



|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 252   | Resp: | 14406 |
| Ion Ratio | Lower | Upper |       |
| 252       | 100   |       |       |
| 253       | 24.0  | 19.5  | 29.3  |
| 125       | 12.3  | 10.2  | 15.4  |





#39

Benzo(a)pyrene

Concen: 0.359 ng

RT: 22.977 min Scan# 20

Delta R.T. 0.000 min

Lab File: BN035375.D

Acq: 28 Nov 2024 09:02

Instrument :

BNA\_N

ClientSampleId :

SSTDCCC0.4EC

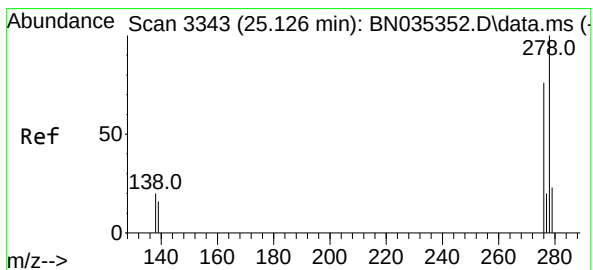
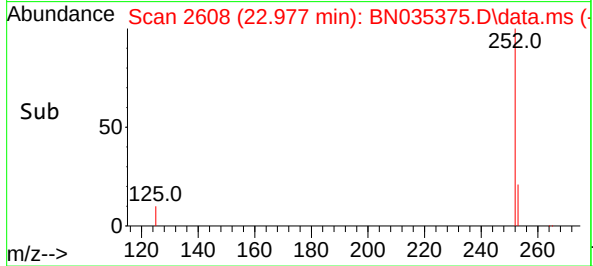
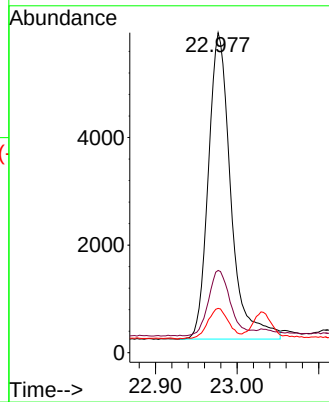
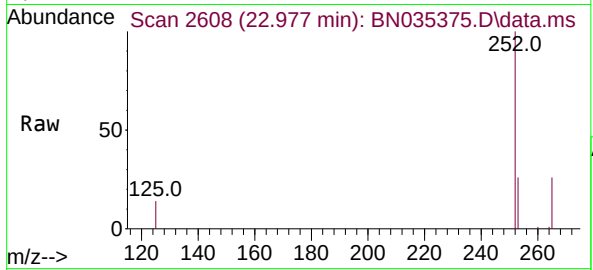
|           |       |       |      |
|-----------|-------|-------|------|
| Tgt Ion:  | 252   | Resp: | 1089 |
| Ion Ratio | Lower | Upper |      |
| 252       | 100   |       |      |
| 253       | 25.7  | 20.2  | 30.4 |
| 125       | 13.8  | 10.9  | 16.3 |

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 11/29/2024

Supervised By :mohammad ahmed 11/29/2024



#40

Dibenzo(a,h)anthracene

Concen: 0.389 ng

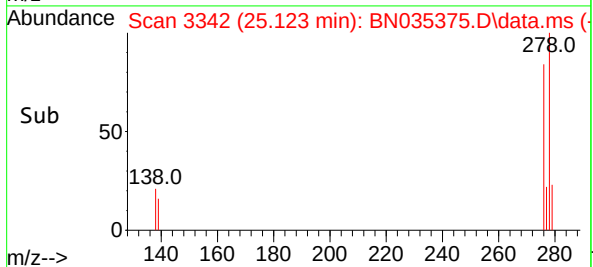
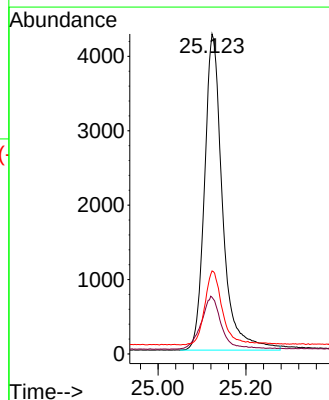
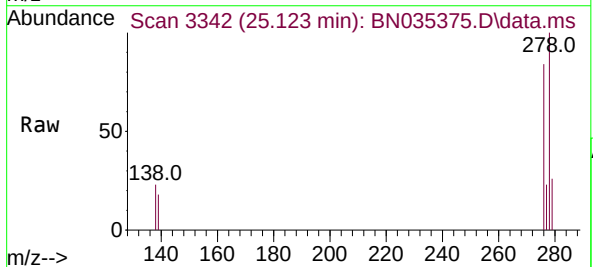
RT: 25.123 min Scan# 3342

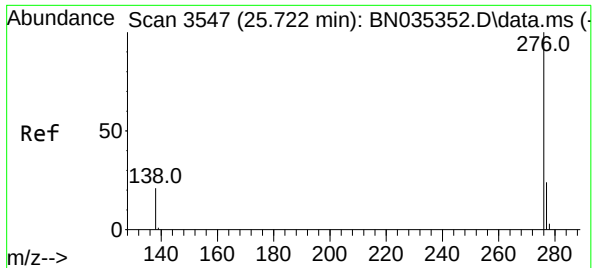
Delta R.T. -0.003 min

Lab File: BN035375.D

Acq: 28 Nov 2024 09:02

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 278   | Resp: | 12092 |
| Ion Ratio | Lower | Upper |       |
| 278       | 100   |       |       |
| 139       | 17.7  | 14.2  | 21.4  |
| 279       | 26.0  | 20.5  | 30.7  |





#41

Benzo(g,h,i)perylene

Concen: 0.385 ng

RT: 25.722 min Scan# 31

Delta R.T. 0.000 min

Lab File: BN035375.D

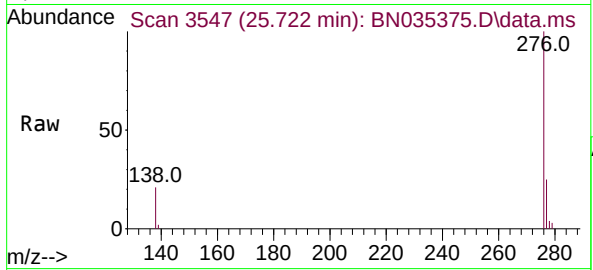
Acq: 28 Nov 2024 09:02

Instrument :

BNA\_N

ClientSampleId :

SSTDCCC0.4EC



Tgt Ion:276 Resp: 1250

Ion Ratio Lower Upper

276 100

277 25.1 19.9 29.9

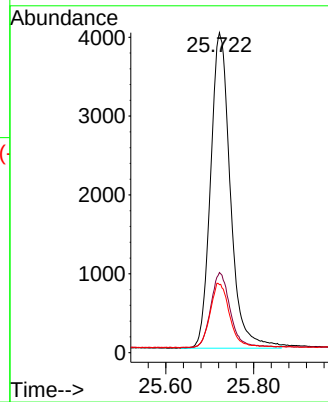
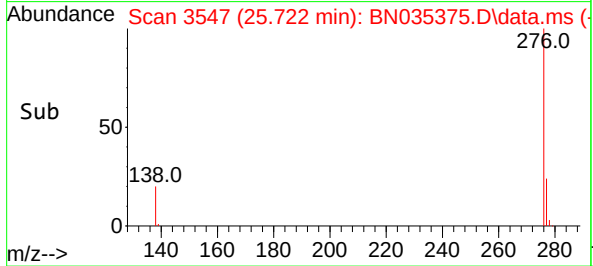
138 21.3 17.8 26.8

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 11/29/2024

Supervised By :mohammad ahmed 11/29/2024



Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN112724\  
 Data File : BN035375.D  
 Acq On : 28 Nov 2024 09:02  
 Operator : RC/JU  
 Sample : SSTDCCC0.4  
 Misc :  
 ALS Vial : 29 Sample Multiplier: 1

Instrument :  
 BNA\_N  
 LabSampleId :  
 SSTDCCC0.4

Quant Time: Nov 29 00:19:36 2024  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\8270-SIM-BN112724.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Wed Nov 27 23:03:24 2024  
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min  
 Max. RRF Dev : 25% Max. Rel. Area : 150%

|         | Compound                   | AvgRF | CCRF  | %Dev | Area% | Dev(min) |
|---------|----------------------------|-------|-------|------|-------|----------|
| 1 I     | 1,4-Dichlorobenzene-d4     | 1.000 | 1.000 | 0.0  | 97    | 0.00     |
| 2       | 1,4-Dioxane                | 0.382 | 0.378 | 1.0  | 98    | 0.00     |
| 3       | n-Nitrosodimethylamine     | 0.319 | 0.315 | 1.3  | 94    | 0.00     |
| 4 S     | 2-Fluorophenol             | 1.001 | 1.006 | -0.5 | 96    | 0.00     |
| 5 S     | Phenol-d6                  | 1.204 | 1.212 | -0.7 | 99    | 0.00     |
| 6       | bis(2-Chloroethyl)ether    | 1.012 | 0.983 | 2.9  | 96    | 0.00     |
| 7 I     | Naphthalene-d8             | 1.000 | 1.000 | 0.0  | 98    | 0.00     |
| 8 S     | Nitrobenzene-d5            | 0.244 | 0.244 | 0.0  | 101   | 0.00     |
| 9       | Naphthalene                | 1.055 | 1.045 | 0.9  | 97    | 0.00     |
| 10      | Hexachlorobutadiene        | 0.243 | 0.260 | -7.0 | 103   | 0.00     |
| 11 SURR | 2-Methylnaphthalene-d10    | 0.626 | 0.614 | 1.9  | 97    | 0.00     |
| 12      | 2-Methylnaphthalene        | 0.755 | 0.744 | 1.5  | 98    | 0.00     |
| 13 I    | Acenaphthene-d10           | 1.000 | 1.000 | 0.0  | 100   | 0.00     |
| 14 S    | 2,4,6-Tribromophenol       | 0.284 | 0.266 | 6.3  | 104   | 0.00     |
| 15 S    | 2-Fluorobiphenyl           | 1.512 | 1.517 | -0.3 | 100   | 0.00     |
| 16      | Acenaphthylene             | 1.680 | 1.587 | 5.5  | 100   | 0.00     |
| 17      | Acenaphthene               | 1.115 | 1.081 | 3.0  | 100   | 0.00     |
| 18      | Fluorene                   | 1.596 | 1.563 | 2.1  | 101   | 0.00     |
| 19 I    | Phenanthrene-d10           | 1.000 | 1.000 | 0.0  | 101   | -0.01    |
| 20      | 4,6-Dinitro-2-methylphenol | 0.039 | 0.037 | 5.1  | 106   | 0.00     |
| 21      | 4-Bromophenyl-phenylether  | 0.234 | 0.231 | 1.3  | 103   | 0.00     |
| 22      | Hexachlorobenzene          | 0.275 | 0.278 | -1.1 | 103   | 0.00     |
| 23      | Atrazine                   | 0.167 | 0.145 | 13.2 | 95    | 0.00     |
| 24      | Pentachlorophenol          | 0.120 | 0.102 | 15.0 | 107   | 0.00     |
| 25      | Phenanthrene               | 1.099 | 1.067 | 2.9  | 101   | 0.00     |
| 26      | Anthracene                 | 0.994 | 0.933 | 6.1  | 100   | 0.00     |
| 27 SURR | Fluoranthene-d10           | 1.134 | 1.056 | 6.9  | 99    | 0.00     |
| 28      | Fluoranthene               | 1.481 | 1.382 | 6.7  | 98    | 0.00     |
| 29 I    | Chrysene-d12               | 1.000 | 1.000 | 0.0  | 97    | 0.00     |
| 30      | Pyrene                     | 1.477 | 1.489 | -0.8 | 98    | 0.00     |
| 31 S    | Terphenyl-d14              | 0.789 | 0.787 | 0.3  | 96    | 0.00     |
| 32      | Benzo(a)anthracene         | 1.399 | 1.300 | 7.1  | 93    | 0.00     |
| 33      | Chrysene                   | 1.443 | 1.449 | -0.4 | 97    | 0.00     |
| 34      | Bis(2-ethylhexyl)phthalate | 0.553 | 0.475 | 14.1 | 89    | 0.00     |
| 35 I    | Perylene-d12               | 1.000 | 1.000 | 0.0  | 93    | 0.00     |
| 36      | Indeno(1,2,3-cd)pyrene     | 1.564 | 1.541 | 1.5  | 94    | 0.00     |
| 37      | Benzo(b)fluoranthene       | 1.463 | 1.322 | 9.6  | 94    | 0.00     |
| 38      | Benzo(k)fluoranthene       | 1.440 | 1.429 | 0.8  | 95    | 0.00     |
| 39 C    | Benzo(a)pyrene             | 1.205 | 1.080 | 10.4 | 88    | 0.00     |
| 40      | Dibenzo(a,h)anthracene     | 1.234 | 1.199 | 2.8  | 93    | 0.00     |
| 41      | Benzo(g,h,i)perylene       | 1.289 | 1.240 | 3.8  | 92    | 0.00     |

(#) = Out of Range

SPCC's out = 0 CCC's out = 0

Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN112724\  
 Data File : BN035375.D  
 Acq On : 28 Nov 2024 09:02  
 Operator : RC/JU  
 Sample : SSTDCCC0.4  
 Misc :  
 ALS Vial : 29 Sample Multiplier: 1

Instrument :  
 BNA\_N  
 LabSampleId :  
 SSTDCCC0.4

Quant Time: Nov 29 00:19:36 2024  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\8270-SIM-BN112724.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Wed Nov 27 23:03:24 2024  
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min  
 Max. RRF Dev : 25% Max. Rel. Area : 150%

|         | Compound                   | Amount | Calc. | %Dev | Area% | Dev(min) |
|---------|----------------------------|--------|-------|------|-------|----------|
| 1 I     | 1,4-Dichlorobenzene-d4     | 0.400  | 0.400 | 0.0  | 97    | 0.00     |
| 2       | 1,4-Dioxane                | 0.400  | 0.396 | 1.0  | 98    | 0.00     |
| 3       | n-Nitrosodimethylamine     | 0.400  | 0.396 | 1.0  | 94    | 0.00     |
| 4 S     | 2-Fluorophenol             | 0.400  | 0.402 | -0.5 | 96    | 0.00     |
| 5 S     | Phenol-d6                  | 0.400  | 0.403 | -0.8 | 99    | 0.00     |
| 6       | bis(2-Chloroethyl)ether    | 0.400  | 0.389 | 2.8  | 96    | 0.00     |
| 7 I     | Naphthalene-d8             | 0.400  | 0.400 | 0.0  | 98    | 0.00     |
| 8 S     | Nitrobenzene-d5            | 0.400  | 0.400 | 0.0  | 101   | 0.00     |
| 9       | Naphthalene                | 0.400  | 0.396 | 1.0  | 97    | 0.00     |
| 10      | Hexachlorobutadiene        | 0.400  | 0.427 | -6.7 | 103   | 0.00     |
| 11 SURR | 2-Methylnaphthalene-d10    | 0.400  | 0.392 | 2.0  | 97    | 0.00     |
| 12      | 2-Methylnaphthalene        | 0.400  | 0.394 | 1.5  | 98    | 0.00     |
| 13 I    | Acenaphthene-d10           | 0.400  | 0.400 | 0.0  | 100   | 0.00     |
| 14 S    | 2,4,6-Tribromophenol       | 0.400  | 0.375 | 6.3  | 104   | 0.00     |
| 15 S    | 2-Fluorobiphenyl           | 0.400  | 0.401 | -0.3 | 100   | 0.00     |
| 16      | Acenaphthylene             | 0.400  | 0.378 | 5.5  | 100   | 0.00     |
| 17      | Acenaphthene               | 0.400  | 0.388 | 3.0  | 100   | 0.00     |
| 18      | Fluorene                   | 0.400  | 0.392 | 2.0  | 101   | 0.00     |
| 19 I    | Phenanthrene-d10           | 0.400  | 0.400 | 0.0  | 101   | -0.01    |
| 20      | 4,6-Dinitro-2-methylphenol | 0.400  | 0.380 | 5.0  | 106   | 0.00     |
| 21      | 4-Bromophenyl-phenylether  | 0.400  | 0.394 | 1.5  | 103   | 0.00     |
| 22      | Hexachlorobenzene          | 0.400  | 0.404 | -1.0 | 103   | 0.00     |
| 23      | Atrazine                   | 0.400  | 0.347 | 13.3 | 95    | 0.00     |
| 24      | Pentachlorophenol          | 0.400  | 0.340 | 15.0 | 107   | 0.00     |
| 25      | Phenanthrene               | 0.400  | 0.388 | 3.0  | 101   | 0.00     |
| 26      | Anthracene                 | 0.400  | 0.376 | 6.0  | 100   | 0.00     |
| 27 SURR | Fluoranthene-d10           | 0.400  | 0.373 | 6.8  | 99    | 0.00     |
| 28      | Fluoranthene               | 0.400  | 0.373 | 6.8  | 98    | 0.00     |
| 29 I    | Chrysene-d12               | 0.400  | 0.400 | 0.0  | 97    | 0.00     |
| 30      | Pyrene                     | 0.400  | 0.403 | -0.8 | 98    | 0.00     |
| 31 S    | Terphenyl-d14              | 0.400  | 0.399 | 0.3  | 96    | 0.00     |
| 32      | Benzo(a)anthracene         | 0.400  | 0.372 | 7.0  | 93    | 0.00     |
| 33      | Chrysene                   | 0.400  | 0.402 | -0.5 | 97    | 0.00     |
| 34      | Bis(2-ethylhexyl)phthalate | 0.400  | 0.344 | 14.0 | 89    | 0.00     |
| 35 I    | Perylene-d12               | 0.400  | 0.400 | 0.0  | 93    | 0.00     |
| 36      | Indeno(1,2,3-cd)pyrene     | 0.400  | 0.394 | 1.5  | 94    | 0.00     |
| 37      | Benzo(b)fluoranthene       | 0.400  | 0.361 | 9.8  | 94    | 0.00     |
| 38      | Benzo(k)fluoranthene       | 0.400  | 0.397 | 0.8  | 95    | 0.00     |
| 39 C    | Benzo(a)pyrene             | 0.400  | 0.359 | 10.3 | 88    | 0.00     |
| 40      | Dibenzo(a,h)anthracene     | 0.400  | 0.389 | 2.8  | 93    | 0.00     |
| 41      | Benzo(g,h,i)perylene       | 0.400  | 0.385 | 3.8  | 92    | 0.00     |

(#) = Out of Range

SPCC's out = 0 CCC's out = 0



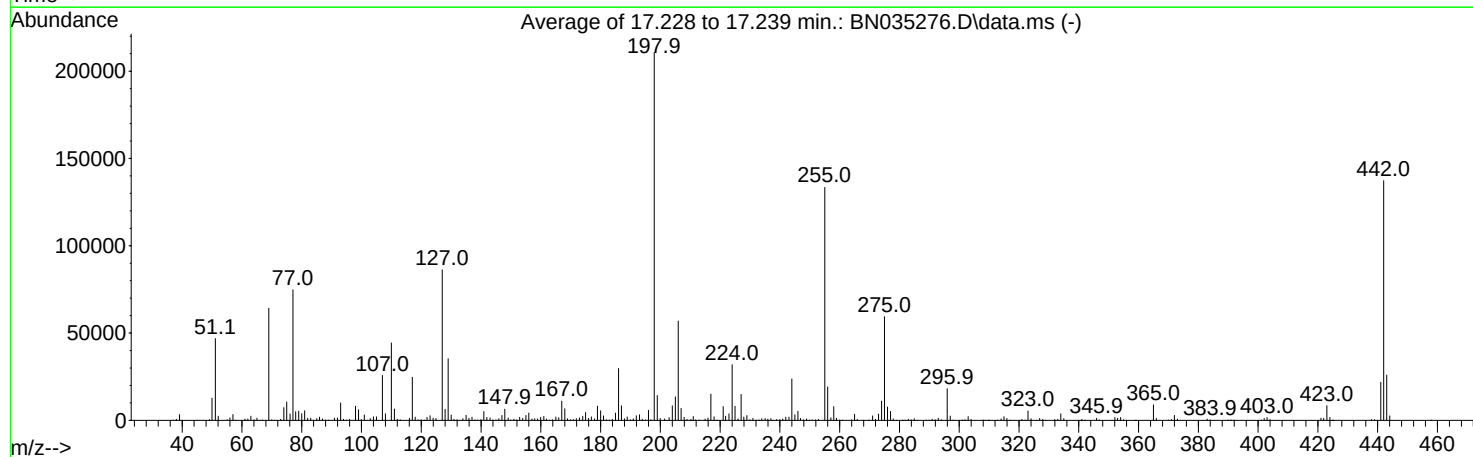
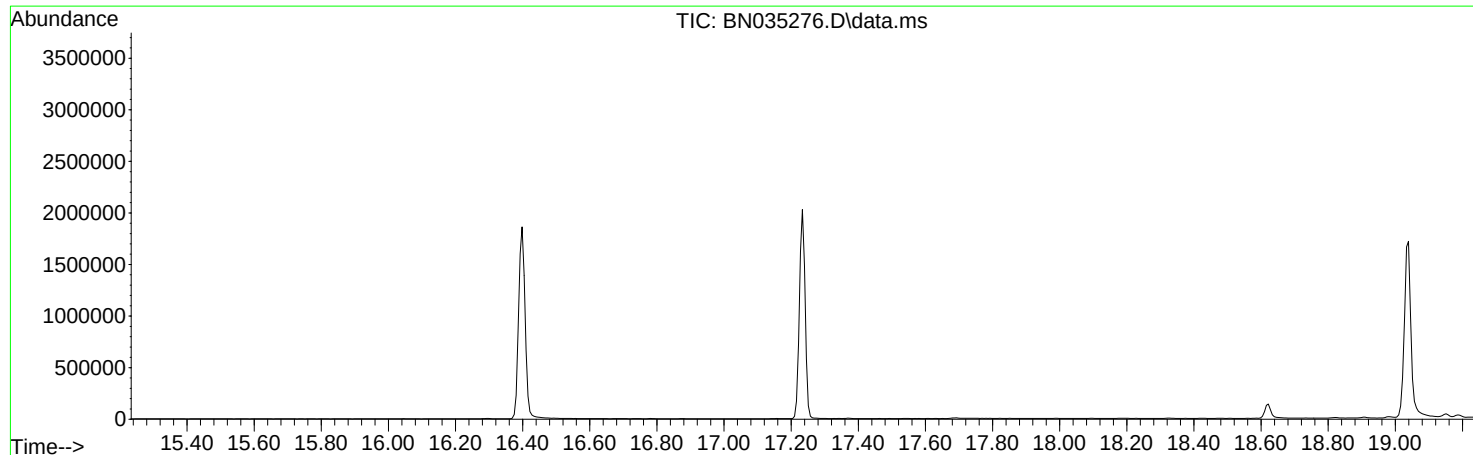
# QC SAMPLE DATA

Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN112524\  
Data File : BN035276.D  
Acq On : 25 Nov 2024 09:37  
Operator : RC/JU  
Sample : DFTPP  
Misc :  
ALS Vial : 51 Sample Multiplier: 1

Instrument :  
BNA\_N  
ClientSampleId :  
DFTPP

Integration File: rteint.p

Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\8270-SIM-BN112524.M  
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
Last Update : Tue Nov 26 02:36:08 2024



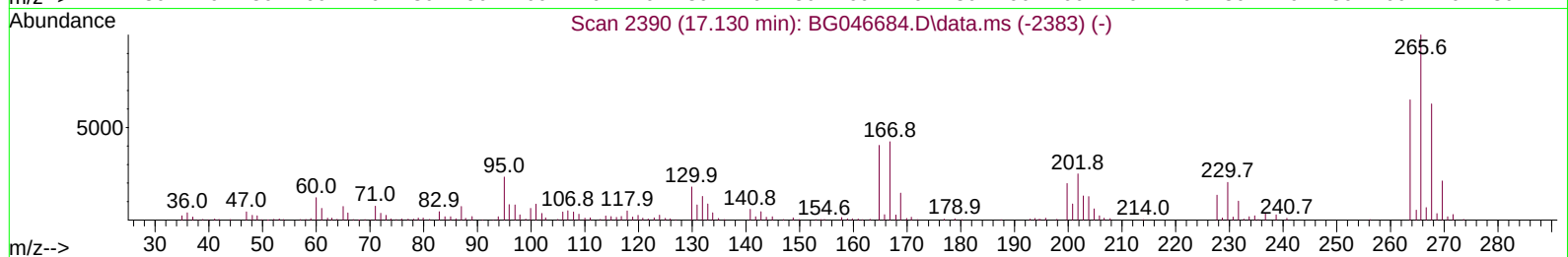
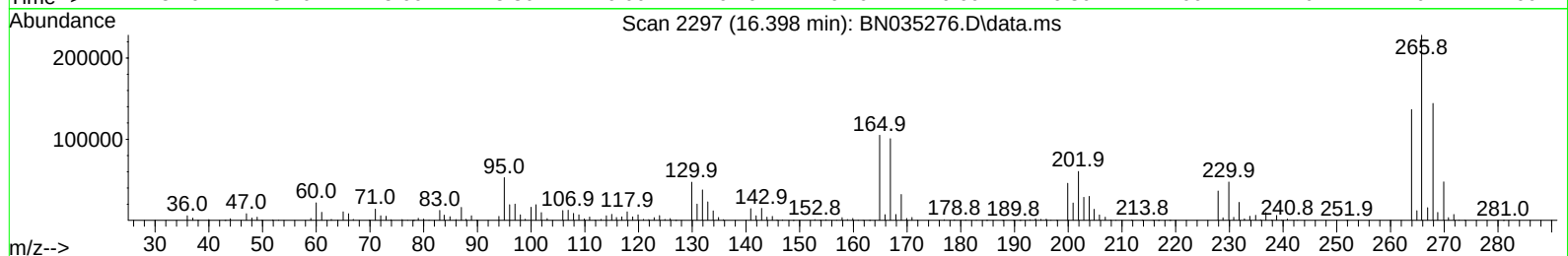
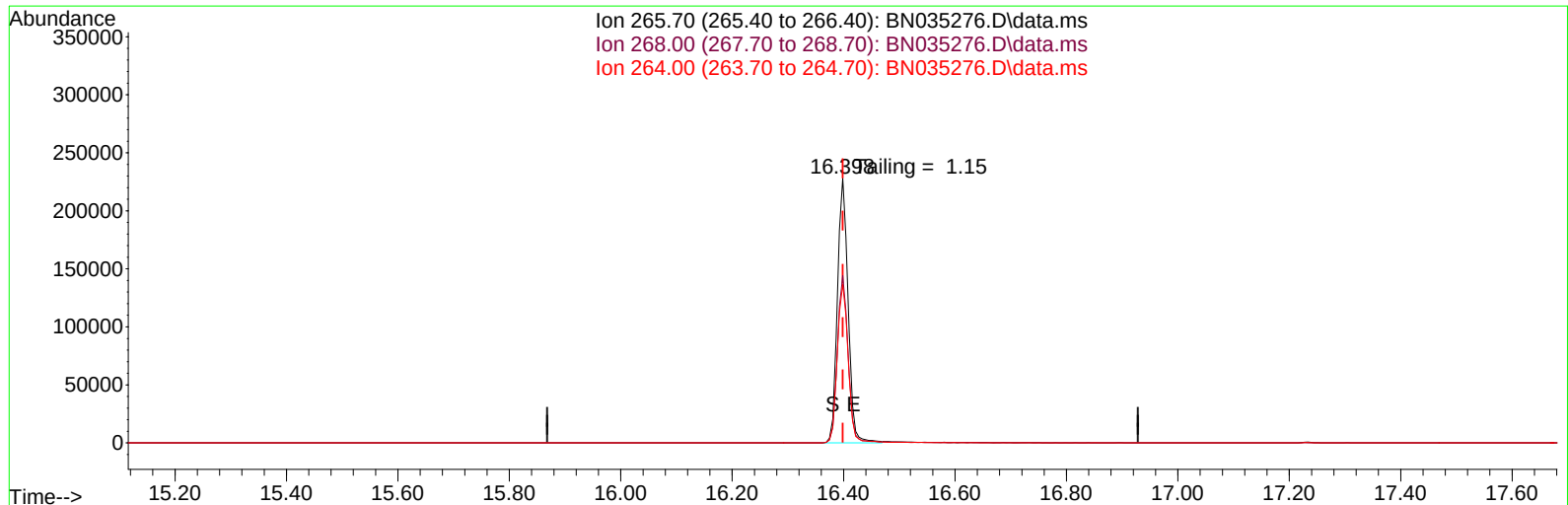
AutoFind: Scans 2438, 2439, 2440; Background Corrected with Scan 2431

| Target<br>Mass | Rel. to<br>Mass | Lower<br>Limit% | Upper<br>Limit% | Rel.<br>Abn% | Raw<br>Abn | Result<br>Pass/Fail |
|----------------|-----------------|-----------------|-----------------|--------------|------------|---------------------|
| 51             | 198             | 10              | 80              | 22.2         | 46795      | PASS                |
| 68             | 69              | 0.00            | 2               | 0.0          | 0          | PASS                |
| 69             | 198             | 0.00            | 100             | 30.5         | 64280      | PASS                |
| 70             | 69              | 0.00            | 2               | 0.5          | 352        | PASS                |
| 127            | 198             | 10              | 80              | 40.9         | 86240      | PASS                |
| 197            | 198             | 0.00            | 2               | 0.2          | 340        | PASS                |
| 198            | 198             | 100             | 100             | 100.0        | 210688     | PASS                |
| 199            | 198             | 5               | 9               | 6.7          | 14182      | PASS                |
| 275            | 198             | 10              | 60              | 28.2         | 59405      | PASS                |
| 365            | 198             | 1               | 100             | 4.2          | 8892       | PASS                |
| 441            | 198             | 0.01            | 100             | 10.4         | 21850      | PASS                |
| 442            | 442             | 50              | 100             | 100.0        | 137299     | PASS                |
| 443            | 442             | 15              | 24              | 18.9         | 25952      | PASS                |

Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN112524\  
Data File : BN035276.D  
Acq On : 25 Nov 2024 09:37  
Operator : RC/JU  
Sample : DFTPP  
Misc :  
ALS Vial : 51 Sample Multiplier: 1

Instrument :  
BNA\_N  
ClientSampleId :  
DFTPP

Quant Time: Nov 26 05:17:59 2024  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\8270E-Tune.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Tue Nov 26 05:17:50 2024  
Response via : Initial Calibration



TIC: BN035276.D\data.ms

**(70) Pentachlorophenol (C)**

16.398min ( 0.000) 33730.33 ng

response 307325

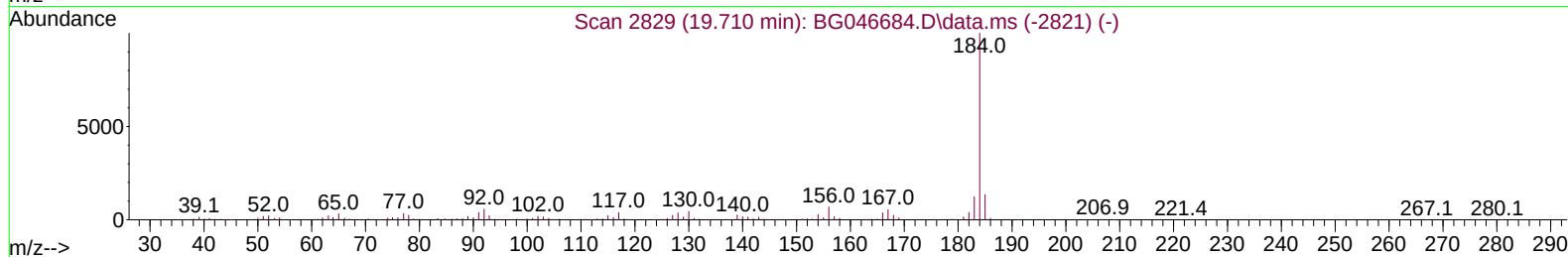
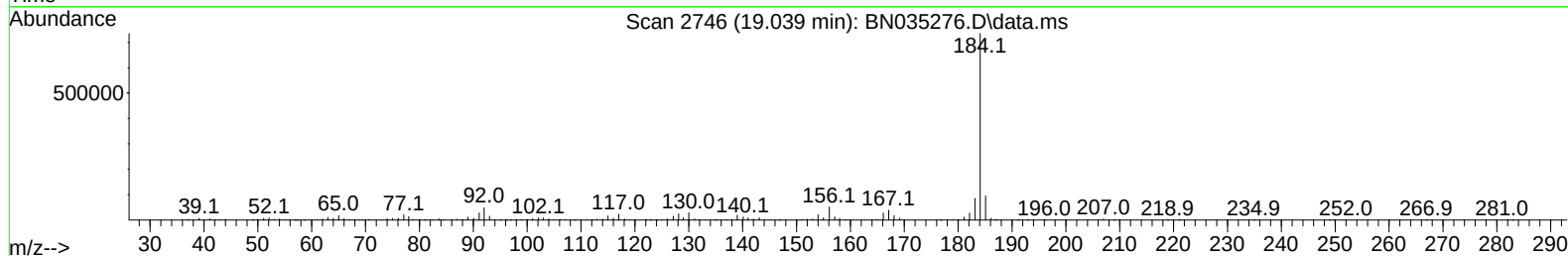
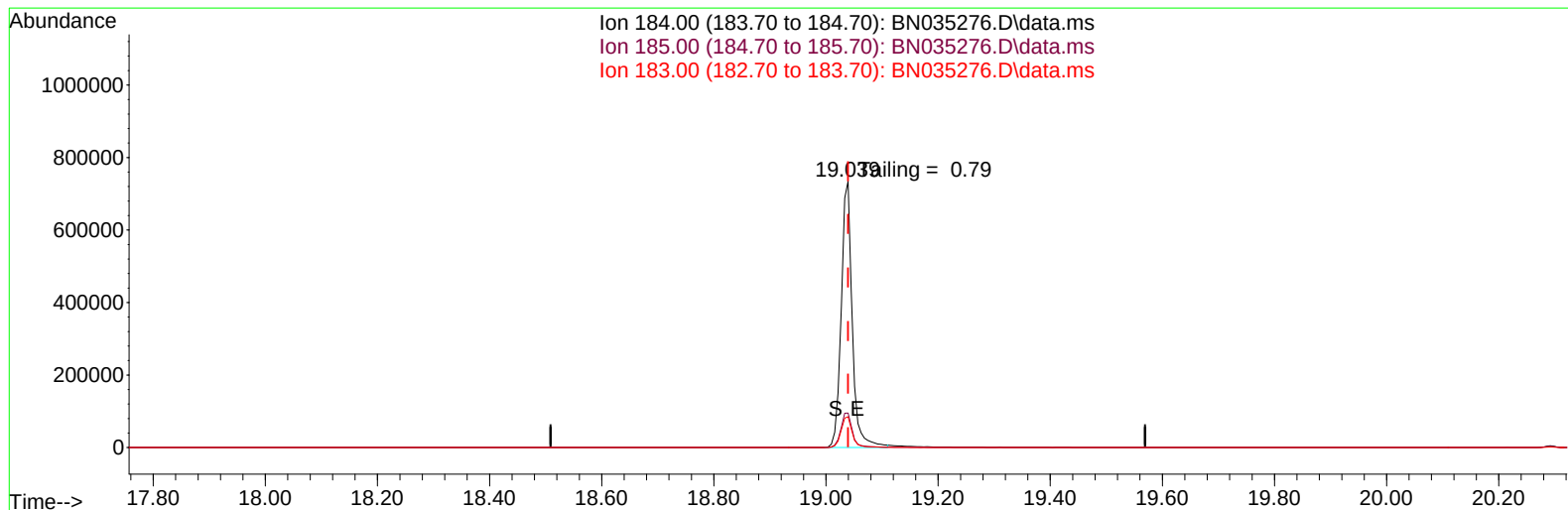
| Ion    | Exp%   | Act%   |
|--------|--------|--------|
| 265.70 | 100.00 | 100.00 |
| 268.00 | 62.20  | 63.17  |
| 264.00 | 61.60  | 59.86  |
| 0.00   | 0.00   | 0.00   |



Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN112524\  
Data File : BN035276.D  
Acq On : 25 Nov 2024 09:37  
Operator : RC/JU  
Sample : DFTPP  
Misc :  
ALS Vial : 51 Sample Multiplier: 1

Instrument :  
BNA\_N  
ClientSampleId :  
DFTPP

Quant Time: Nov 26 05:17:59 2024  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\8270E-Tune.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Tue Nov 26 05:17:50 2024  
Response via : Initial Calibration



TIC: BN035276.D\data.ms

**(77) Benzidine**

19.039min ( 0.000) 0.00 ng

response 1018750

| Ion    | Exp%   | Act%   |
|--------|--------|--------|
| 184.00 | 100.00 | 100.00 |
| 185.00 | 15.50  | 12.97  |
| 183.00 | 13.20  | 11.60  |
| 0.00   | 0.00   | 0.00   |

Instrument :  
BNA\_N  
ClientSampleId :  
DFTPP

DDT Breakdown

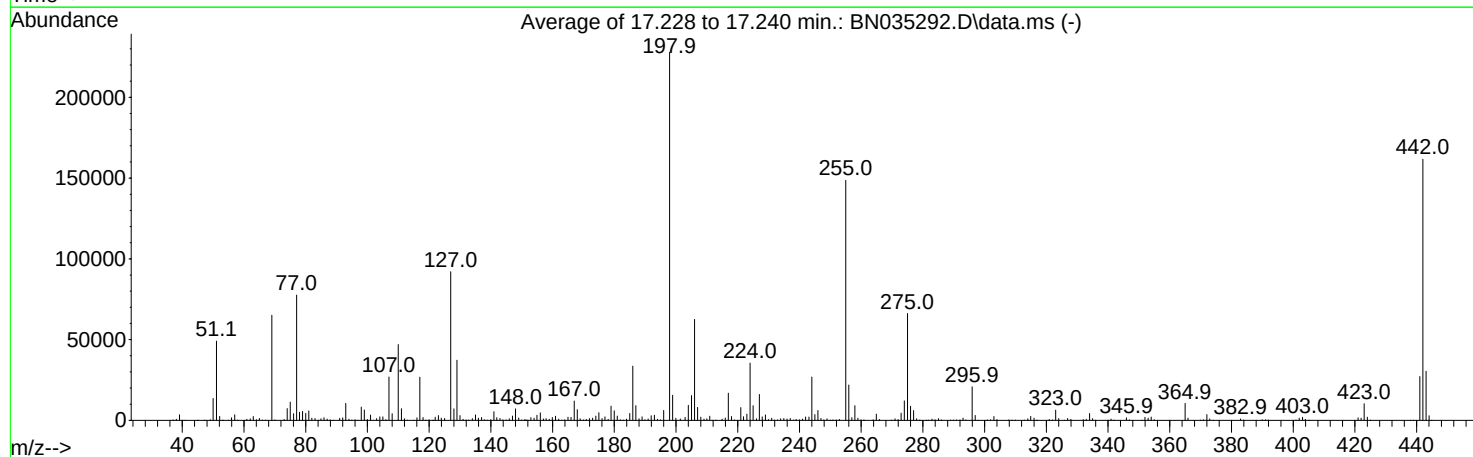
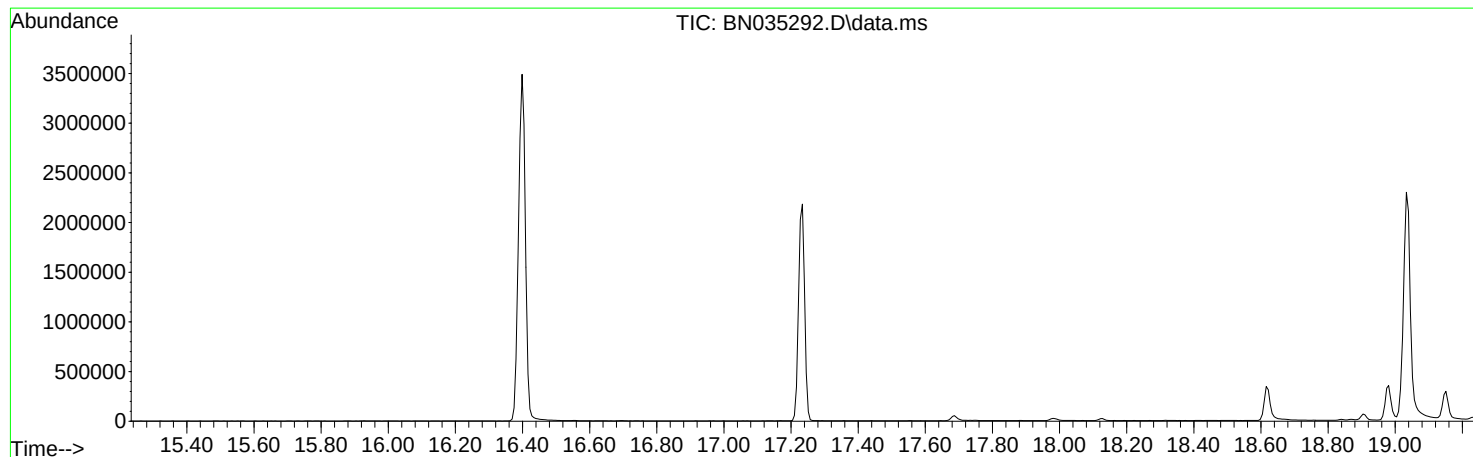
| Date          | Instrument Name  | DFTPP Data File    |
|---------------|------------------|--------------------|
| 11/25/2024    | BNA_N            | <u>BN035276.D</u>  |
|               |                  |                    |
|               |                  |                    |
| Compound Name | Response         | Retention Time     |
|               |                  |                    |
| DDT           | 703573           | 20.292             |
| DDD           | 32612            | 19.845             |
| DDE           | 1098             | 19.333             |
|               |                  |                    |
|               |                  |                    |
| SUM(DDD+DDE)  | SUM(DDT+DDD+DDE) | % Breakdown Of DDT |
|               |                  |                    |
| 33710         | 737283           | 4.57               |
|               |                  |                    |

Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN112524\  
Data File : BN035292.D  
Acq On : 25 Nov 2024 20:35  
Operator : RC/JU  
Sample : DFTPP  
Misc :  
ALS Vial : 68 Sample Multiplier: 1

Instrument :  
BNA\_N  
ClientSampleId :  
DFTPP

Integration File: rteint.p

Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\8270-SIM-BN112524.M  
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
Last Update : Tue Nov 26 02:36:08 2024



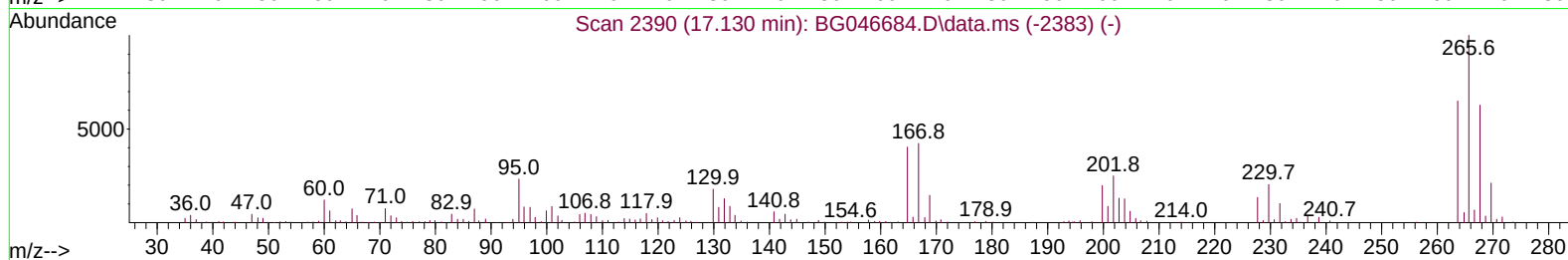
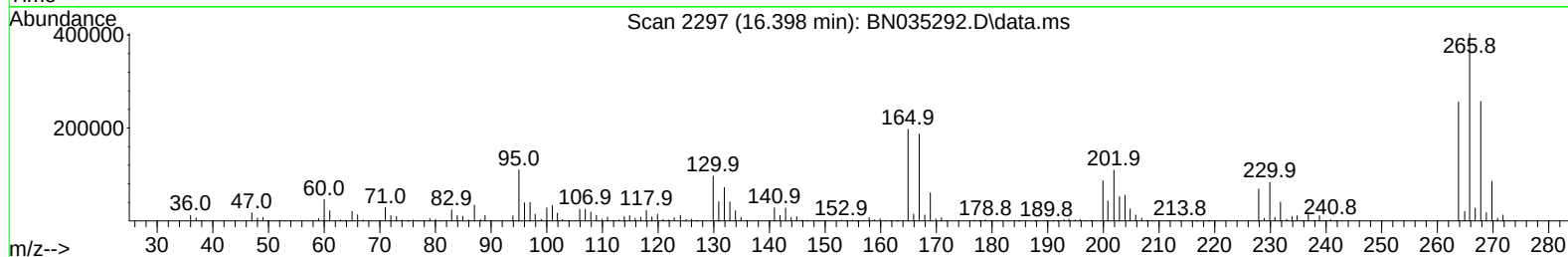
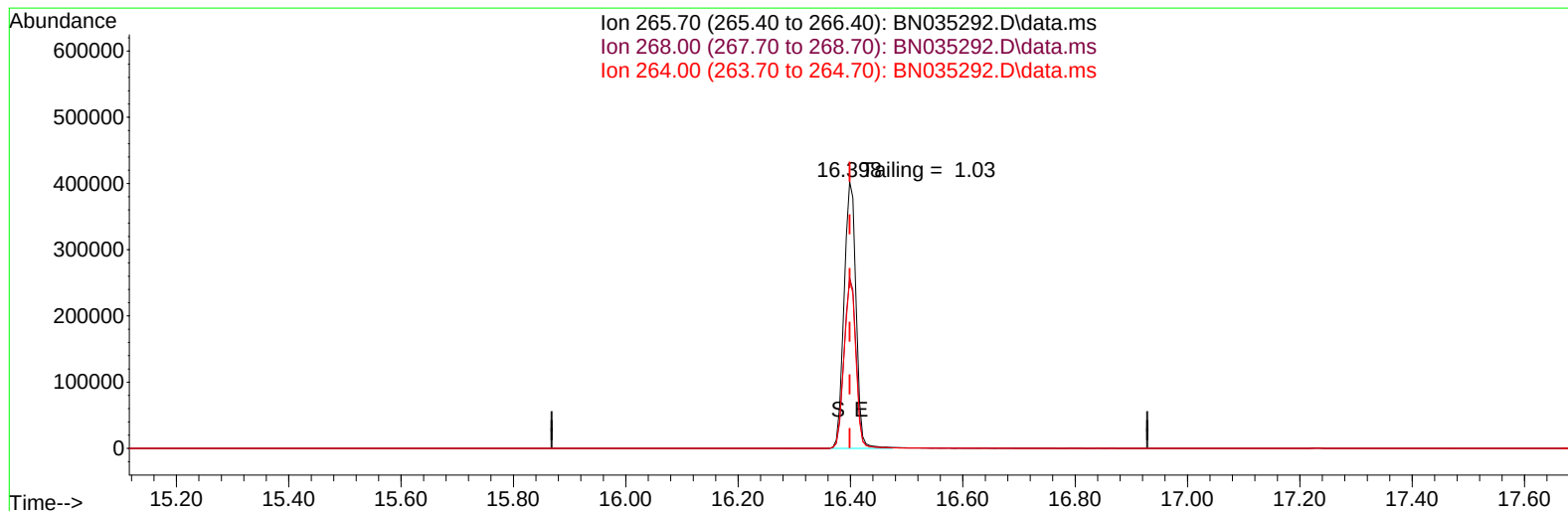
AutoFind: Scans 2438, 2439, 2440; Background Corrected with Scan 2431

| Target<br>Mass | Rel. to<br>Mass | Lower<br>Limit% | Upper<br>Limit% | Rel.<br>Abn% | Raw<br>Abn | Result<br>Pass/Fail |
|----------------|-----------------|-----------------|-----------------|--------------|------------|---------------------|
| 51             | 198             | 10              | 80              | 21.5         | 49032      | PASS                |
| 68             | 69              | 0.00            | 2               | 0.0          | 0          | PASS                |
| 69             | 198             | 0.00            | 100             | 28.6         | 65139      | PASS                |
| 70             | 69              | 0.00            | 2               | 0.5          | 305        | PASS                |
| 127            | 198             | 10              | 80              | 40.4         | 92040      | PASS                |
| 197            | 198             | 0.00            | 2               | 0.0          | 0          | PASS                |
| 198            | 198             | 100             | 100             | 100.0        | 227755     | PASS                |
| 199            | 198             | 5               | 9               | 6.8          | 15559      | PASS                |
| 275            | 198             | 10              | 60              | 29.0         | 66160      | PASS                |
| 365            | 198             | 1               | 100             | 4.6          | 10457      | PASS                |
| 441            | 198             | 0.01            | 100             | 11.9         | 27155      | PASS                |
| 442            | 442             | 50              | 100             | 100.0        | 161664     | PASS                |
| 443            | 442             | 15              | 24              | 18.8         | 30456      | PASS                |

Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN112524\  
Data File : BN035292.D  
Acq On : 25 Nov 2024 20:35  
Operator : RC/JU  
Sample : DFTPP  
Misc :  
ALS Vial : 68 Sample Multiplier: 1

Instrument :  
BNA\_N  
ClientSampleId :  
DFTPP

Quant Time: Nov 26 05:22:04 2024  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\8270E-Tune.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Tue Nov 26 05:21:56 2024  
Response via : Initial Calibration



TIC: BN035292.D\data.ms

**(70) Pentachlorophenol (C)**

16.398min ( 0.000) 1275879.78 ng

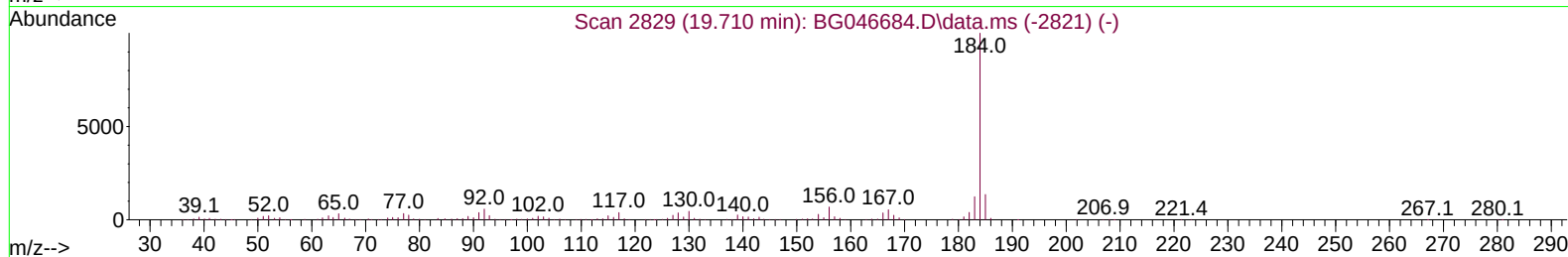
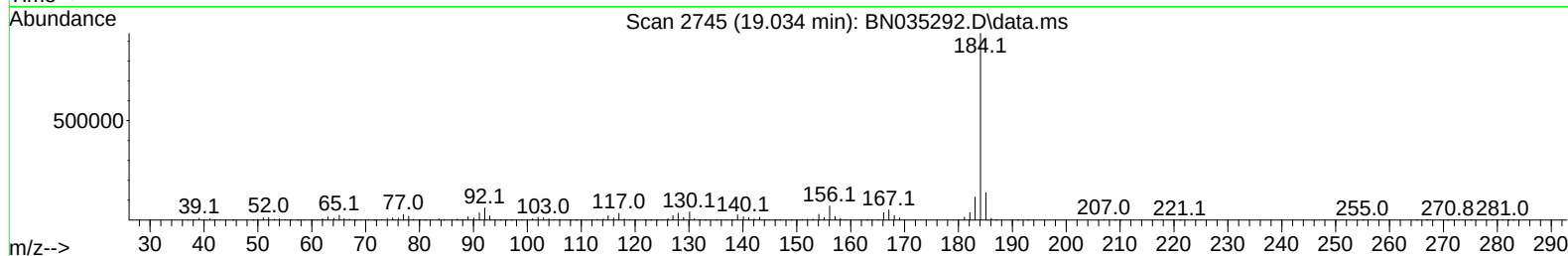
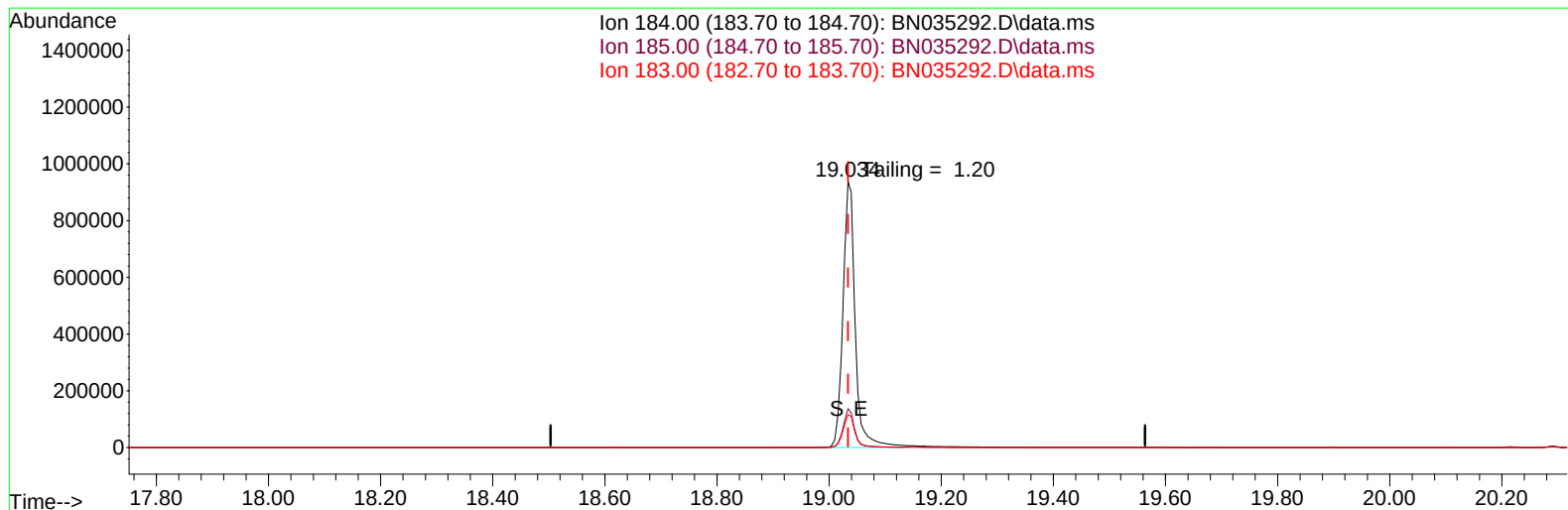
response 600767

| Ion    | Exp%   | Act%   |
|--------|--------|--------|
| 265.70 | 100.00 | 100.00 |
| 268.00 | 62.20  | 63.86  |
| 264.00 | 61.60  | 63.45  |
| 0.00   | 0.00   | 0.00   |

Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN112524\  
Data File : BN035292.D  
Acq On : 25 Nov 2024 20:35  
Operator : RC/JU  
Sample : DFTPP  
Misc :  
ALS Vial : 68 Sample Multiplier: 1

Instrument :  
BNA\_N  
ClientSampleId :  
DFTPP

Quant Time: Nov 26 05:22:04 2024  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\8270E-Tune.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Tue Nov 26 05:21:56 2024  
Response via : Initial Calibration



TIC: BN035292.D\data.ms

**(77) Benzidine**

19.034min ( 0.000) 201606.82 ng

response 1448003

| Ion    | Exp%   | Act%   |
|--------|--------|--------|
| 184.00 | 100.00 | 100.00 |
| 185.00 | 15.50  | 14.64  |
| 183.00 | 13.20  | 12.37  |
| 0.00   | 0.00   | 0.00   |

Instrument :  
BNA\_N  
ClientSampleId :  
DFTPP

DDT Breakdown

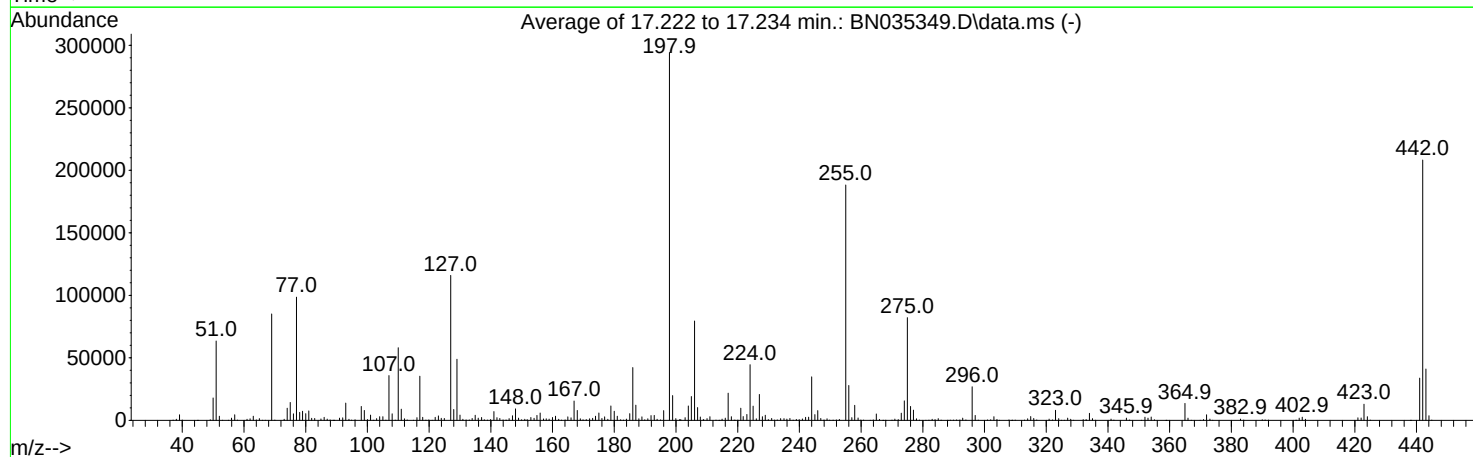
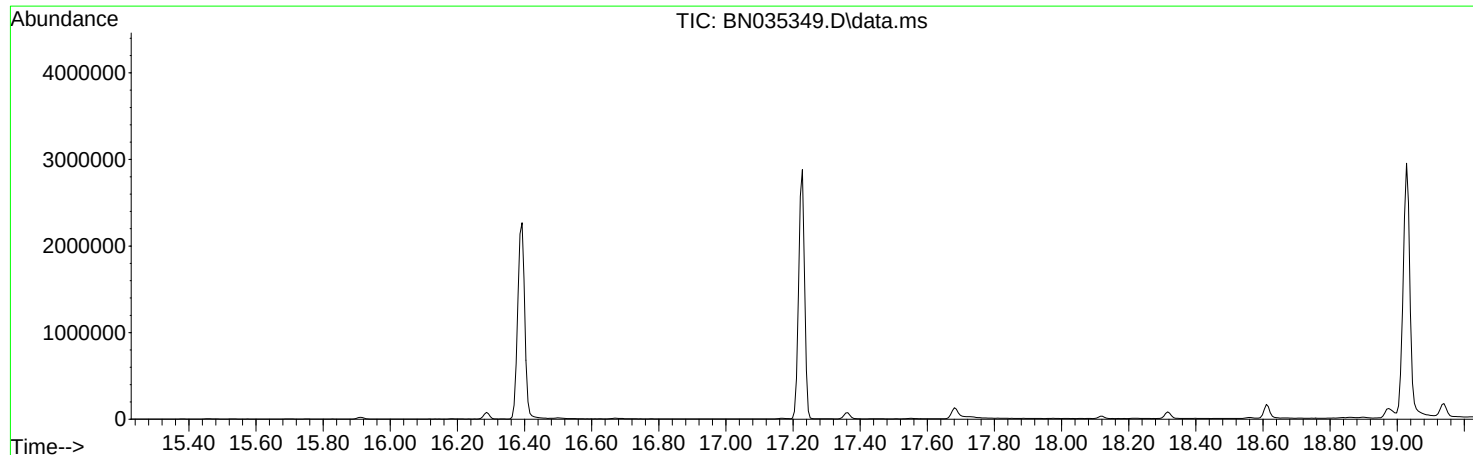
| Date          | Instrument Name  | DFTPP Data File    |
|---------------|------------------|--------------------|
| 11/25/2024    | BNA_N            | <u>BN035292.D</u>  |
|               |                  |                    |
|               |                  |                    |
| Compound Name | Response         | Retention Time     |
|               |                  |                    |
| DDT           | 727744           | 20.292             |
| DDD           | 34008            | 19.845             |
| DDE           | 982              | 19.328             |
|               |                  |                    |
|               |                  |                    |
| SUM(DDD+DDE)  | SUM(DDT+DDD+DDE) | % Breakdown Of DDT |
|               |                  |                    |
| 34990         | 762734           | 4.59               |
|               |                  |                    |

Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN112724\  
Data File : BN035349.D  
Acq On : 27 Nov 2024 14:55  
Operator : RC/JU  
Sample : DFTPP  
Misc :  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
BNA\_N  
ClientSampleId :  
DFTPP

Integration File: rteint.p

Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\8270-SIM-BN112724.M  
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
Last Update : Wed Nov 27 23:03:24 2024



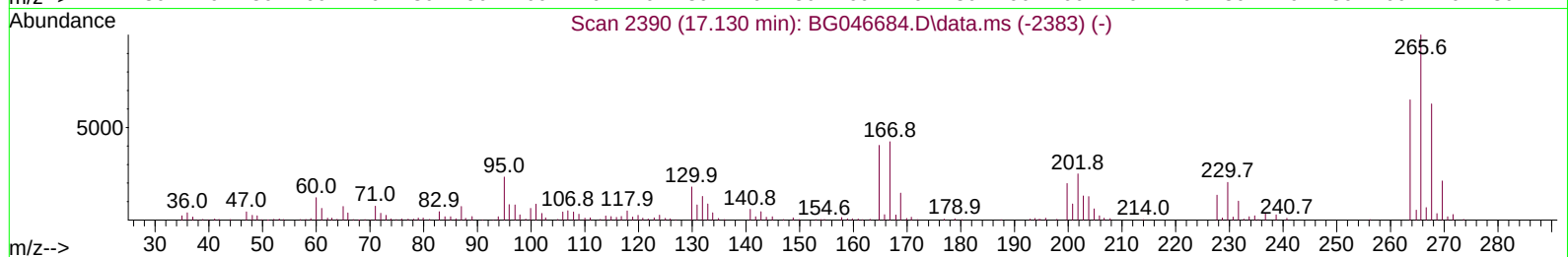
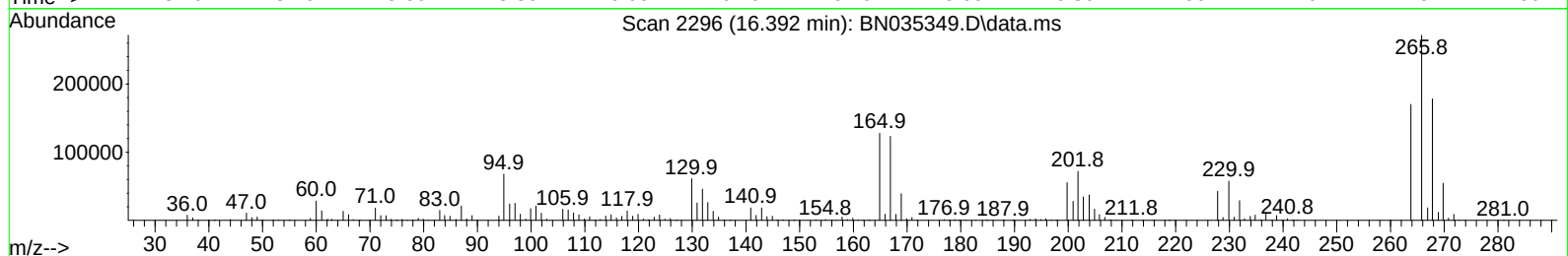
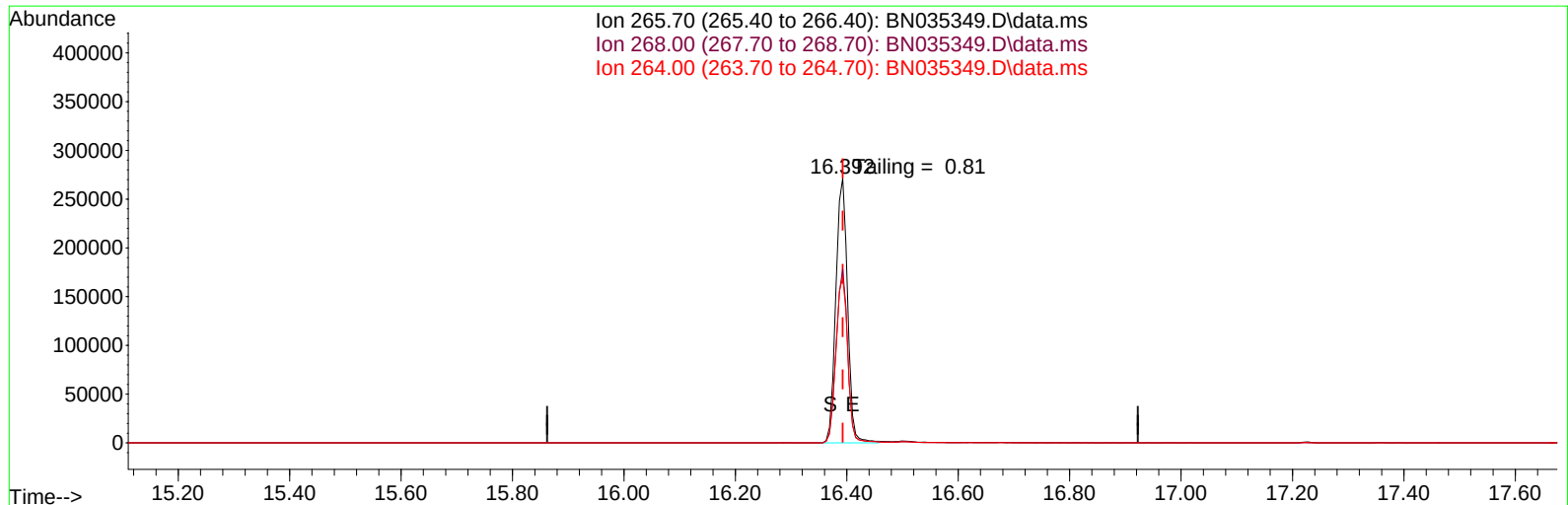
AutoFind: Scans 2437, 2438, 2439; Background Corrected with Scan 2430

| Target<br>Mass | Rel. to<br>Mass | Lower<br>Limit% | Upper<br>Limit% | Rel.<br>Abn% | Raw<br>Abn | Result<br>Pass/Fail |
|----------------|-----------------|-----------------|-----------------|--------------|------------|---------------------|
| 51             | 198             | 10              | 80              | 21.6         | 63480      | PASS                |
| 68             | 69              | 0.00            | 2               | 0.0          | 0          | PASS                |
| 69             | 198             | 0.00            | 100             | 28.9         | 85062      | PASS                |
| 70             | 69              | 0.00            | 2               | 0.4          | 303        | PASS                |
| 127            | 198             | 10              | 80              | 39.4         | 115899     | PASS                |
| 197            | 198             | 0.00            | 2               | 0.0          | 0          | PASS                |
| 198            | 198             | 100             | 100             | 100.0        | 294229     | PASS                |
| 199            | 198             | 5               | 9               | 6.7          | 19826      | PASS                |
| 275            | 198             | 10              | 60              | 27.9         | 82149      | PASS                |
| 365            | 198             | 1               | 100             | 4.6          | 13565      | PASS                |
| 441            | 198             | 0.01            | 100             | 11.5         | 33811      | PASS                |
| 442            | 442             | 50              | 100             | 100.0        | 208235     | PASS                |
| 443            | 442             | 15              | 24              | 19.7         | 41045      | PASS                |

Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN112724\  
Data File : BN035349.D  
Acq On : 27 Nov 2024 14:55  
Operator : RC/JU  
Sample : DFTPP  
Misc :  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
BNA\_N  
ClientSampleId :  
DFTPP

Quant Time: Nov 28 04:07:39 2024  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\8270E-Tune.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Thu Nov 28 04:07:30 2024  
Response via : Initial Calibration



TIC: BN035349.D\data.ms

**(70) Pentachlorophenol (C)**

16.392min ( 0.000) 27794.31 ng

response 398074

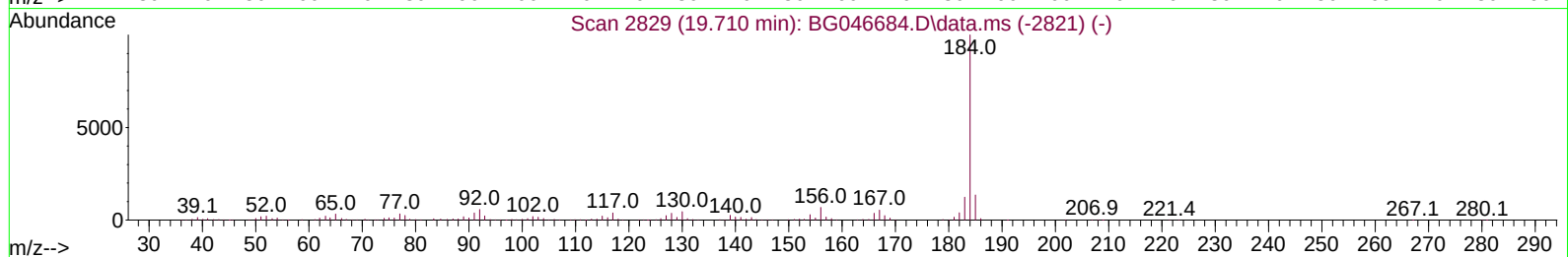
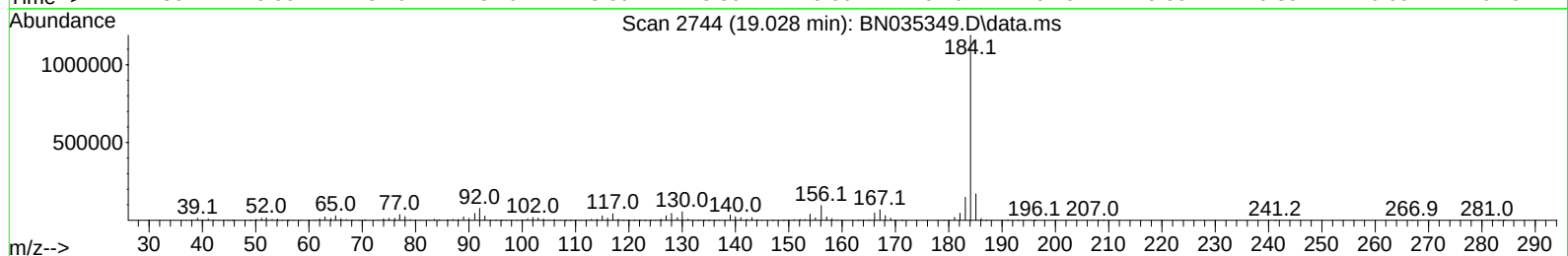
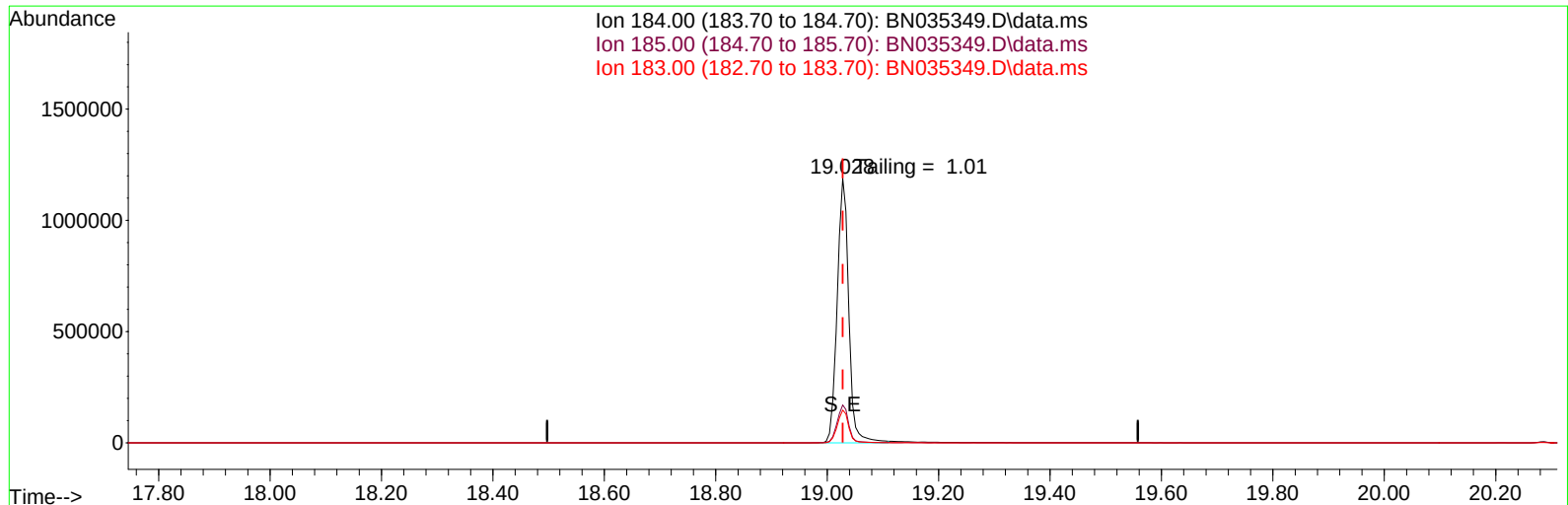
| Ion    | Exp%   | Act%   |
|--------|--------|--------|
| 265.70 | 100.00 | 100.00 |
| 268.00 | 62.20  | 65.68  |
| 264.00 | 61.60  | 62.66  |
| 0.00   | 0.00   | 0.00   |



Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN112724\  
Data File : BN035349.D  
Acq On : 27 Nov 2024 14:55  
Operator : RC/JU  
Sample : DFTPP  
Misc :  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
BNA\_N  
ClientSampleId :  
DFTPP

Quant Time: Nov 28 04:07:39 2024  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\8270E-Tune.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Thu Nov 28 04:07:30 2024  
Response via : Initial Calibration



TIC: BN035349.D\data.ms

**(77) Benzidine**

19.028min ( 0.000) 0.00 ng

response 1733630

| Ion    | Exp%   | Act%   |
|--------|--------|--------|
| 184.00 | 100.00 | 100.00 |
| 185.00 | 15.50  | 14.34  |
| 183.00 | 13.20  | 12.42  |
| 0.00   | 0.00   | 0.00   |

Instrument :  
BNA\_N  
ClientSampleId :  
DFTPP

DDT Breakdown

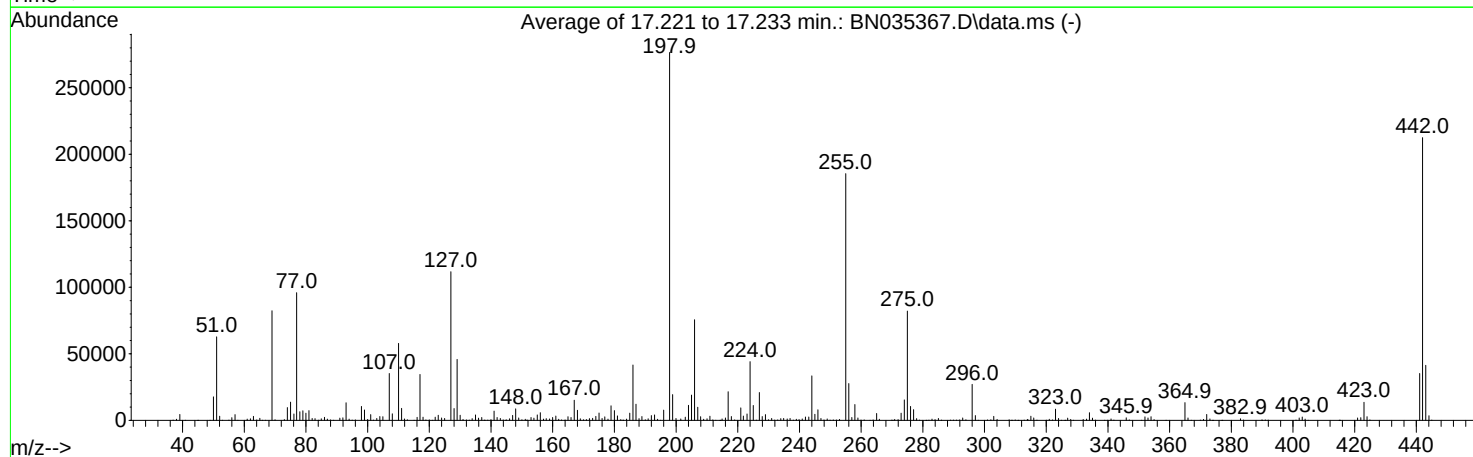
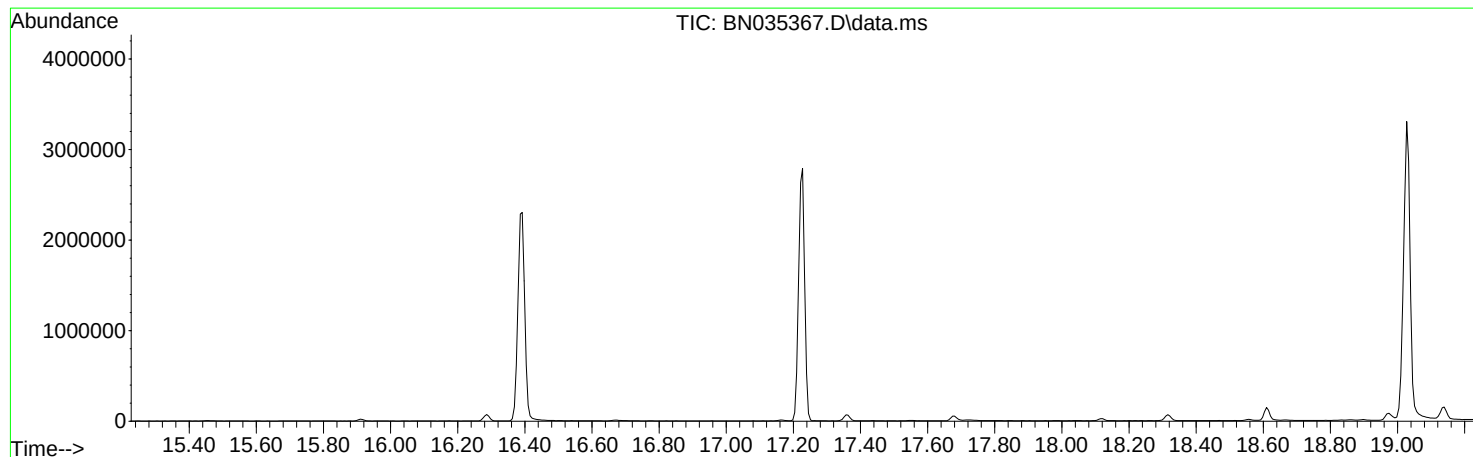
| Date          | Instrument Name  | DFTPP Data File    |
|---------------|------------------|--------------------|
| 11/27/2024    | BNA_N            | <u>BN035349.D</u>  |
|               |                  |                    |
|               |                  |                    |
| Compound Name | Response         | Retention Time     |
|               |                  |                    |
| DDT           | 985457           | 20.286             |
| DDD           | 27636            | 19.839             |
| DDE           | 578              | 19.322             |
|               |                  |                    |
|               |                  |                    |
| SUM(DDD+DDE)  | SUM(DDT+DDD+DDE) | % Breakdown Of DDT |
|               |                  |                    |
| 28214         | 1013671          | 2.78               |
|               |                  |                    |

Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN112724\  
Data File : BN035367.D  
Acq On : 28 Nov 2024 03:35  
Operator : RC/JU  
Sample : DFTPP  
Misc :  
ALS Vial : 21 Sample Multiplier: 1

Instrument :  
BNA\_N  
ClientSampleId :  
DFTPP

Integration File: rteint.p

Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\8270-SIM-BN112724.M  
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
Last Update : Wed Nov 27 23:03:24 2024



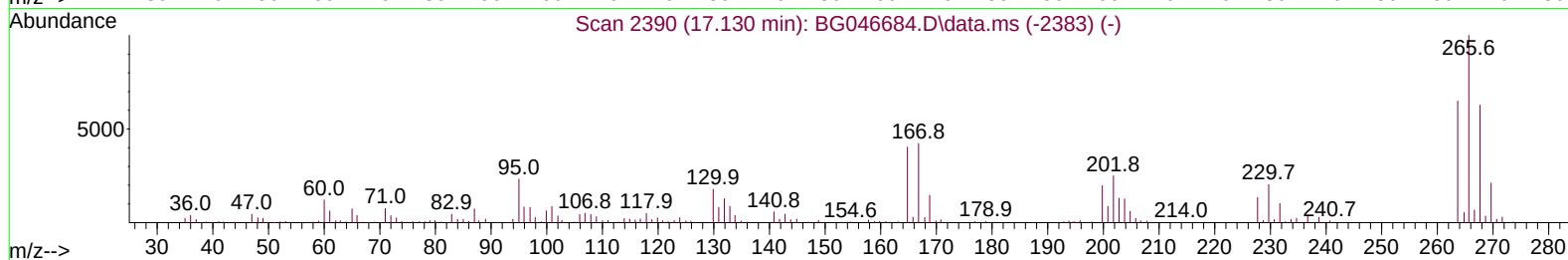
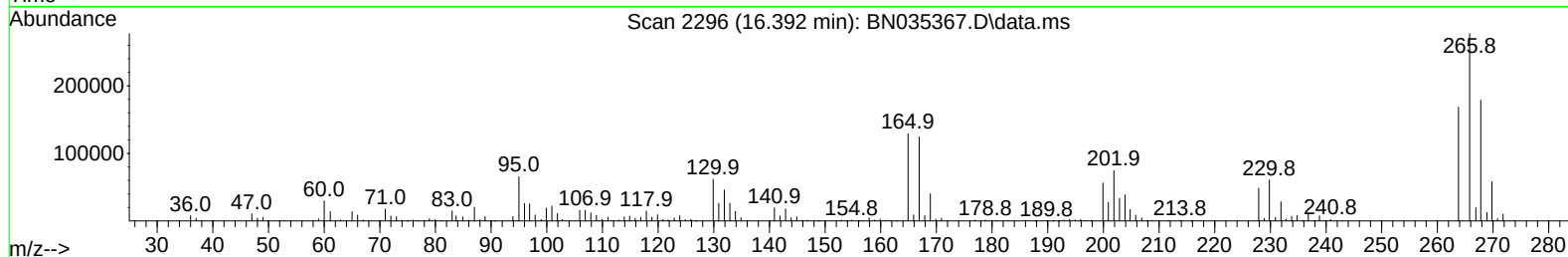
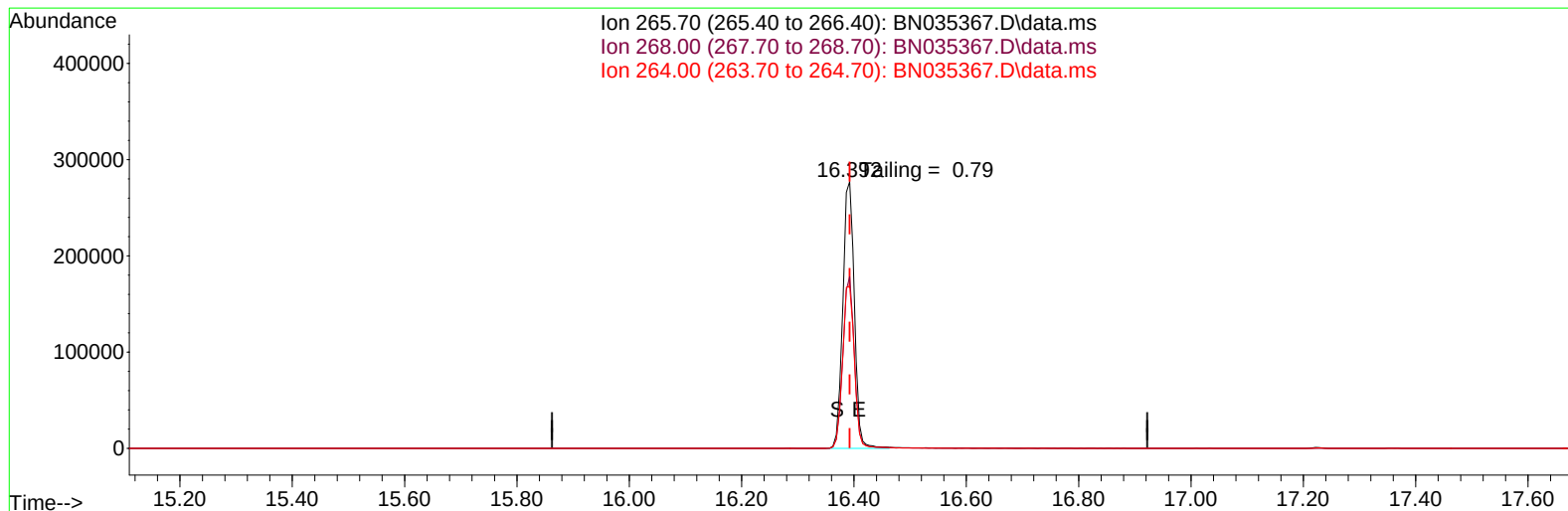
AutoFind: Scans 2437, 2438, 2439; Background Corrected with Scan 2430

| Target<br>Mass | Rel. to<br>Mass | Lower<br>Limit% | Upper<br>Limit% | Rel.<br>Abn% | Raw<br>Abn | Result<br>Pass/Fail |
|----------------|-----------------|-----------------|-----------------|--------------|------------|---------------------|
| 51             | 198             | 10              | 80              | 22.7         | 62763      | PASS                |
| 68             | 69              | 0.00            | 2               | 0.0          | 0          | PASS                |
| 69             | 198             | 0.00            | 100             | 29.8         | 82437      | PASS                |
| 70             | 69              | 0.00            | 2               | 0.6          | 527        | PASS                |
| 127            | 198             | 10              | 80              | 40.4         | 111765     | PASS                |
| 197            | 198             | 0.00            | 2               | 0.0          | 0          | PASS                |
| 198            | 198             | 100             | 100             | 100.0        | 276480     | PASS                |
| 199            | 198             | 5               | 9               | 7.0          | 19405      | PASS                |
| 275            | 198             | 10              | 60              | 29.7         | 82176      | PASS                |
| 365            | 198             | 1               | 100             | 4.8          | 13390      | PASS                |
| 441            | 198             | 0.01            | 100             | 12.8         | 35299      | PASS                |
| 442            | 442             | 50              | 100             | 100.0        | 212459     | PASS                |
| 443            | 442             | 15              | 24              | 19.5         | 41341      | PASS                |

Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN112724\  
Data File : BN035367.D  
Acq On : 28 Nov 2024 03:35  
Operator : RC/JU  
Sample : DFTPP  
Misc :  
ALS Vial : 21 Sample Multiplier: 1

Instrument :  
BNA\_N  
ClientSampleId :  
DFTPP

Quant Time: Nov 28 04:09:14 2024  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\8270E-Tune.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Thu Nov 28 04:07:30 2024  
Response via : Initial Calibration



TIC: BN035367.D\data.ms

**(70) Pentachlorophenol (C)**

16.392min (-0.000) 27424.47 ng

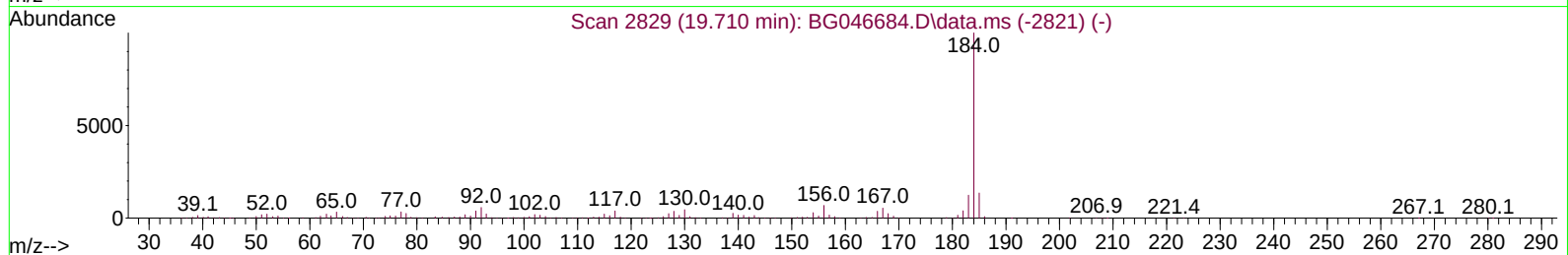
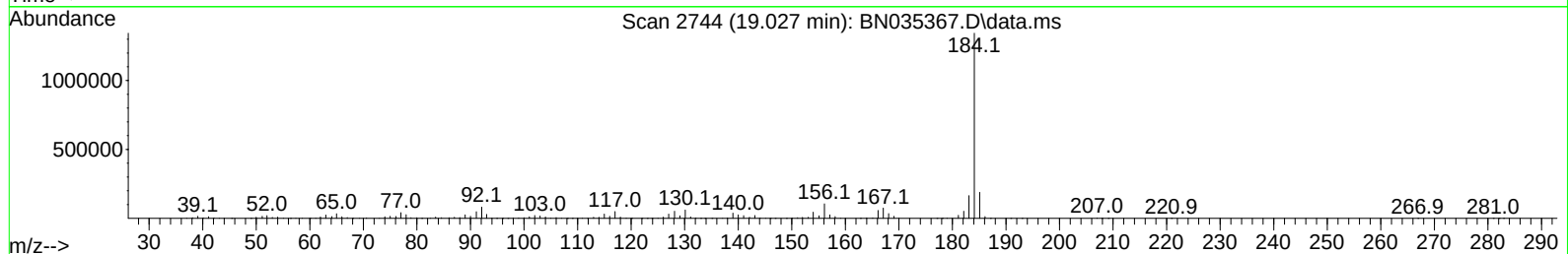
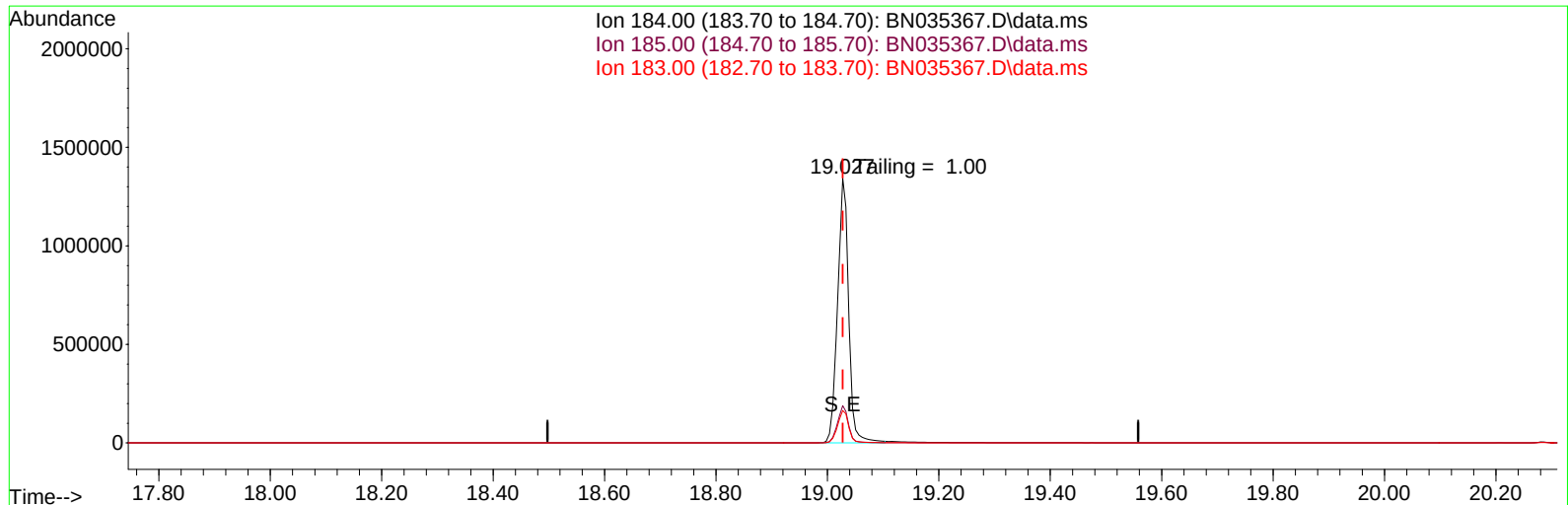
response 398588

| Ion    | Exp%   | Act%   |
|--------|--------|--------|
| 265.70 | 100.00 | 100.00 |
| 268.00 | 62.20  | 64.43  |
| 264.00 | 61.60  | 60.80  |
| 0.00   | 0.00   | 0.00   |

Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN112724\  
Data File : BN035367.D  
Acq On : 28 Nov 2024 03:35  
Operator : RC/JU  
Sample : DFTPP  
Misc :  
ALS Vial : 21 Sample Multiplier: 1

Instrument :  
BNA\_N  
ClientSampleId :  
DFTPP

Quant Time: Nov 28 04:09:14 2024  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\8270E-Tune.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Thu Nov 28 04:07:30 2024  
Response via : Initial Calibration



TIC: BN035367.D\data.ms

**(77) Benzidine**

19.027min (-0.000) 0.00 ng

response 1887713

| Ion    | Exp%   | Act%   |
|--------|--------|--------|
| 184.00 | 100.00 | 100.00 |
| 185.00 | 15.50  | 14.10  |
| 183.00 | 13.20  | 12.25  |
| 0.00   | 0.00   | 0.00   |

**Instrument :**  
BNA\_N  
**ClientSampleId :**  
DFTPP

DDT Breakdown

| Date          | Instrument Name  | DFTPP Data File    |
|---------------|------------------|--------------------|
| 11/27/2024    | BNA_N            | <u>BN035367.D</u>  |
|               |                  |                    |
|               |                  |                    |
| Compound Name | Response         | Retention Time     |
|               |                  |                    |
| DDT           | 921975           | 20.286             |
| DDD           | 39072            | 19.833             |
| DDE           | 1586             | 19.381             |
|               |                  |                    |
|               |                  |                    |
| SUM(DDD+DDE)  | SUM(DDT+DDD+DDE) | % Breakdown Of DDT |
|               |                  |                    |
| 40658         | 962633           | 4.22               |
|               |                  |                    |

## Report of Analysis

|                    |                        |                 |                |
|--------------------|------------------------|-----------------|----------------|
| Client:            | Tetra Tech NUS, Inc.   | Date Collected: |                |
| Project:           | CTO WE13               | Date Received:  |                |
| Client Sample ID:  | PB165198BL             | SDG No.:        | P4959          |
| Lab Sample ID:     | PB165198BL             | Matrix:         | Water          |
| Analytical Method: | SW8270SIM              | % 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 :      | SW3510C                |                 |                |

|                   |           |                |                |               |
|-------------------|-----------|----------------|----------------|---------------|
| File ID/Qc Batch: | Dilution: | Prep Date      | Date Analyzed  | Prep Batch ID |
| BN035369.D        | 1         | 11/22/24 12:25 | 11/28/24 05:27 | PB165198      |

| CAS Number                | Parameter               | Conc. | Qualifier | MDL      | LOD  | LOQ / CRQL | Units    |
|---------------------------|-------------------------|-------|-----------|----------|------|------------|----------|
| <b>TARGETS</b>            |                         |       |           |          |      |            |          |
| 123-91-1                  | 1,4-Dioxane             | 0.20  | U         | 0.070    | 0.20 | 0.20       | ug/L     |
| <b>SURROGATES</b>         |                         |       |           |          |      |            |          |
| 7297-45-2                 | 2-Methylnaphthalene-d10 | 0.42  |           | 30 - 150 |      | 104%       | SPK: 0.4 |
| 93951-69-0                | Fluoranthene-d10        | 0.41  |           | 30 - 150 |      | 101%       | SPK: 0.4 |
| 4165-60-0                 | Nitrobenzene-d5         | 0.37  |           | 55 - 111 |      | 93%        | SPK: 0.4 |
| 321-60-8                  | 2-Fluorobiphenyl        | 0.39  |           | 53 - 106 |      | 98%        | SPK: 0.4 |
| 1718-51-0                 | Terphenyl-d14           | 0.49  |           | 58 - 132 |      | 122%       | SPK: 0.4 |
| <b>INTERNAL STANDARDS</b> |                         |       |           |          |      |            |          |
| 3855-82-1                 | 1,4-Dichlorobenzene-d4  | 2540  | 7.308     |          |      |            |          |
| 1146-65-2                 | Naphthalene-d8          | 6380  | 10.063    |          |      |            |          |
| 15067-26-2                | Acenaphthene-d10        | 4630  | 13.967    |          |      |            |          |
| 1517-22-2                 | Phenanthrene-d10        | 11700 | 16.735    |          |      |            |          |
| 1719-03-5                 | Chrysene-d12            | 10700 | 20.974    |          |      |            |          |
| 1520-96-3                 | Perylene-d12            | 11500 | 23.07     |          |      |            |          |

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\BN112724\  
 Data File : BN035369.D  
 Acq On : 28 Nov 2024 05:27  
 Operator : RC/JU  
 Sample : PB165198BL  
 Misc :  
 ALS Vial : 23 Sample Multiplier: 1

Instrument :  
 BNA\_N  
 ClientSampleId :  
 PB165198BL

Manual Integrations  
**APPROVED**

Reviewed By :Yogesh Patel 11/29/2024  
 Supervised By :mohammad ahmed 11/29/2024

Quant Time: Nov 28 06:27:21 2024  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\8270-SIM-BN112724.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Wed Nov 27 23:03:24 2024  
 Response via : Initial Calibration

| Compound                    | R.T.   | QIon | Response | Conc  | Units | Dev(Min) |
|-----------------------------|--------|------|----------|-------|-------|----------|
| -----                       |        |      |          |       |       |          |
| Internal Standards          |        |      |          |       |       |          |
| 1) 1,4-Dichlorobenzene-d4   | 7.308  | 152  | 2540     | 0.400 | ng    | 0.00     |
| 7) Naphthalene-d8           | 10.063 | 136  | 6378     | 0.400 | ng    | # 0.01   |
| 13) Acenaphthene-d10        | 13.967 | 164  | 4630     | 0.400 | ng    | 0.00     |
| 19) Phenanthrene-d10        | 16.735 | 188  | 11721    | 0.400 | ng    | 0.00     |
| 29) Chrysene-d12            | 20.974 | 240  | 10667    | 0.400 | ng    | 0.00     |
| 35) Perylene-d12            | 23.070 | 264  | 11480    | 0.400 | ng    | 0.00     |
|                             |        |      |          |       |       |          |
| System Monitoring Compounds |        |      |          |       |       |          |
| 4) 2-Fluorophenol           | 4.968  | 112  | 2145     | 0.337 | ng    | 0.00     |
| 5) Phenol-d6                | 6.513  | 99   | 2450     | 0.320 | ng    | 0.00     |
| 8) Nitrobenzene-d5          | 8.440  | 82   | 1446m    | 0.371 | ng    | 0.00     |
| 11) 2-Methylnaphthalene-d10 | 11.661 | 152  | 4167     | 0.417 | ng    | 0.00     |
| 14) 2,4,6-Tribromophenol    | 15.485 | 330  | 675      | 0.205 | ng    | 0.01     |
| 15) 2-Fluorobiphenyl        | 12.579 | 172  | 6893     | 0.394 | ng    | 0.00     |
| 27) Fluoranthene-d10        | 18.784 | 212  | 13454    | 0.405 | ng    | 0.00     |
| 31) Terphenyl-d14           | 19.412 | 244  | 10274    | 0.488 | ng    | 0.00     |

Target Compounds Qvalue

-----

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



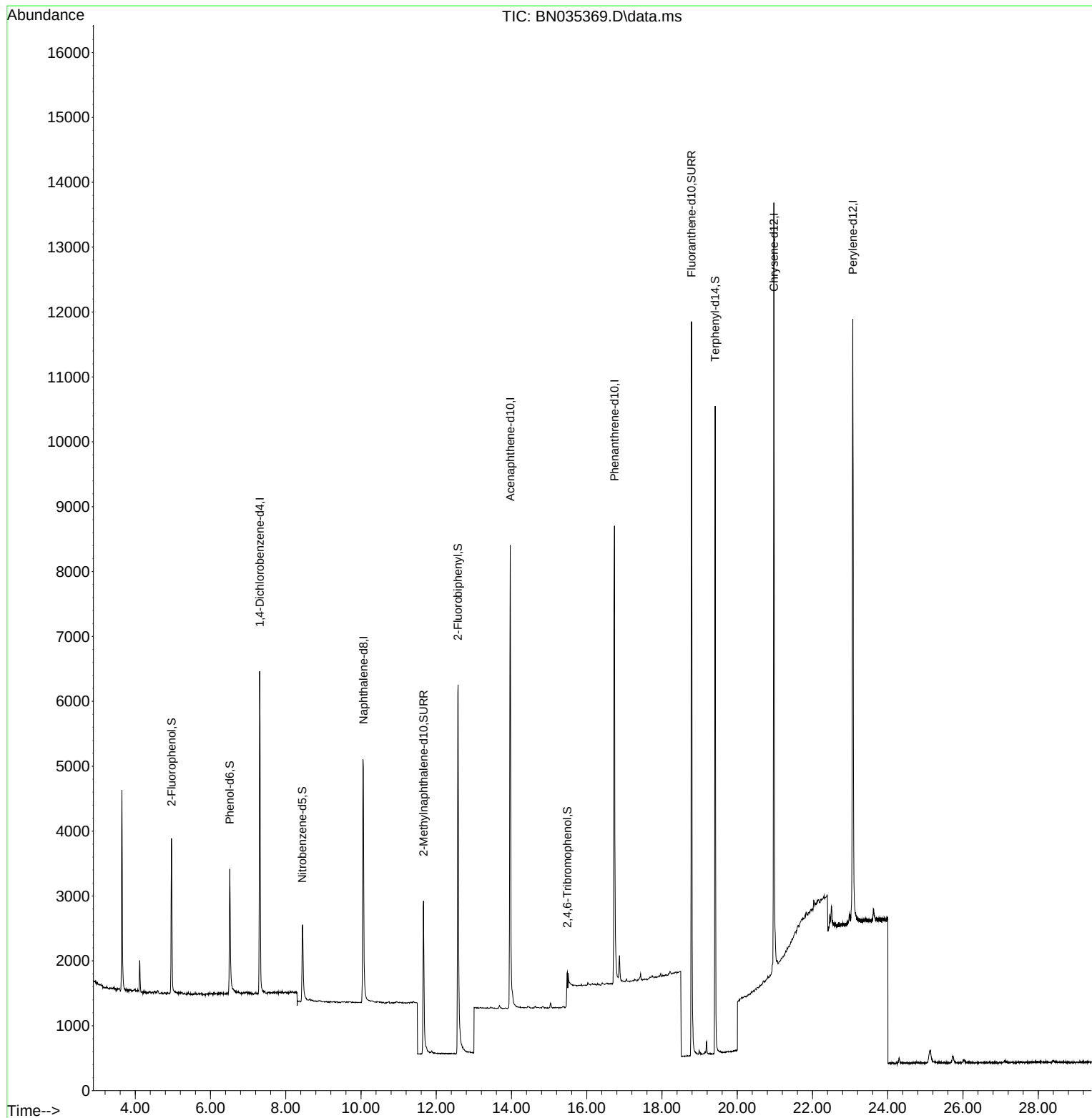
Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN112724\  
Data File : BN035369.D  
Acq On : 28 Nov 2024 05:27  
Operator : RC/JU  
Sample : PB165198BL  
Misc :  
ALS Vial : 23 Sample Multiplier: 1

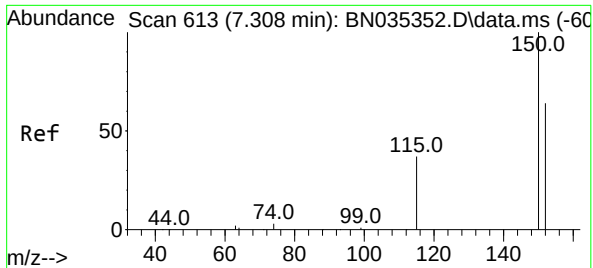
Instrument :  
BNA\_N  
ClientSampleId :  
PB165198BL

Manual Integrations  
**APPROVED**

Reviewed By :Yogesh Patel 11/29/2024  
Supervised By :mohammad ahmed 11/29/2024

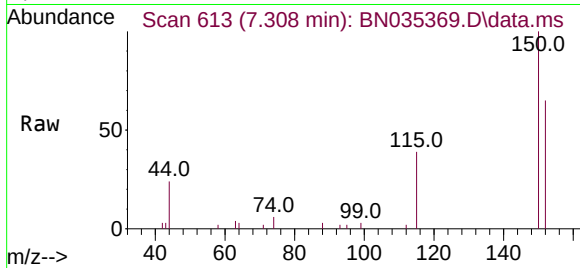
Quant Time: Nov 28 06:27:21 2024  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\8270-SIM-BN112724.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Wed Nov 27 23:03:24 2024  
Response via : Initial Calibration





#1  
1,4-Dichlorobenzene-d4  
Concen: 0.400 ng  
RT: 7.308 min Scan# 613  
Delta R.T. -0.000 min  
Lab File: BN035369.D  
Acq: 28 Nov 2024 05:27

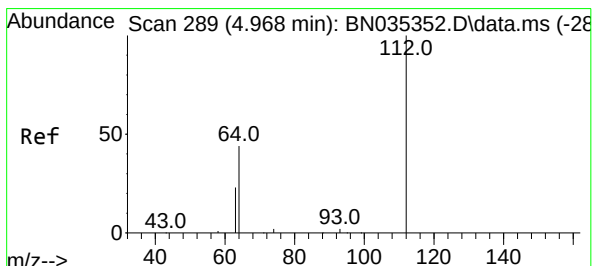
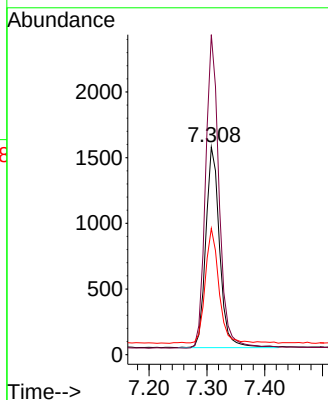
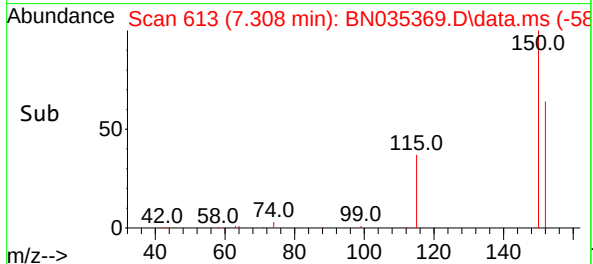
Instrument :  
BNA\_N  
ClientSampleId :  
PB165198BL



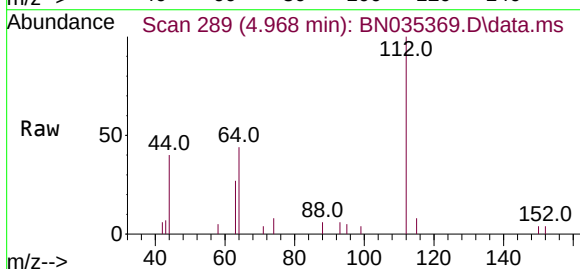
Tgt Ion:152 Resp: 2540  
Ion Ratio Lower Upper  
152 100  
150 154.1 124.0 186.0  
115 60.8 49.6 74.4

Manual Integrations  
APPROVED

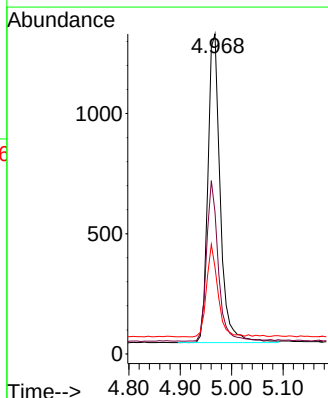
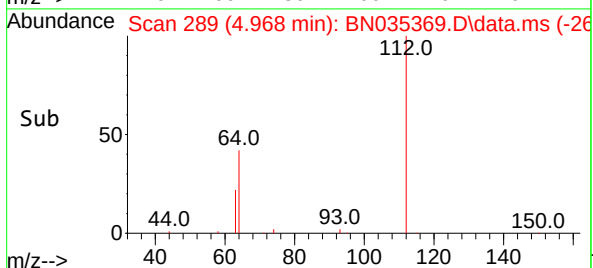
Reviewed By :Yogesh Patel 11/29/2024  
Supervised By :mohammad ahmed 11/29/2024

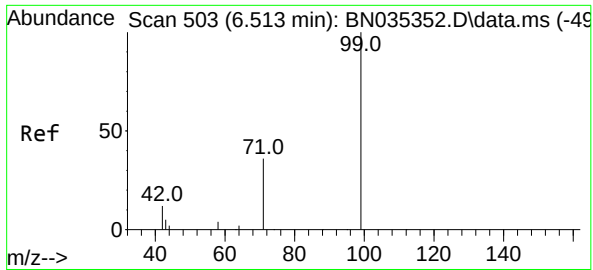


#4  
2-Fluorophenol  
Concen: 0.337 ng  
RT: 4.968 min Scan# 289  
Delta R.T. -0.000 min  
Lab File: BN035369.D  
Acq: 28 Nov 2024 05:27



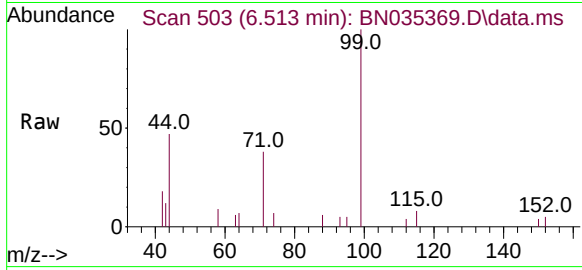
Tgt Ion:112 Resp: 2145  
Ion Ratio Lower Upper  
112 100  
64 49.6 39.8 59.8  
63 27.3 21.0 31.6





#5  
Phenol-d6  
Concen: 0.320 ng  
RT: 6.513 min Scan# 503  
Delta R.T. -0.000 min  
Lab File: BN035369.D  
Acq: 28 Nov 2024 05:27

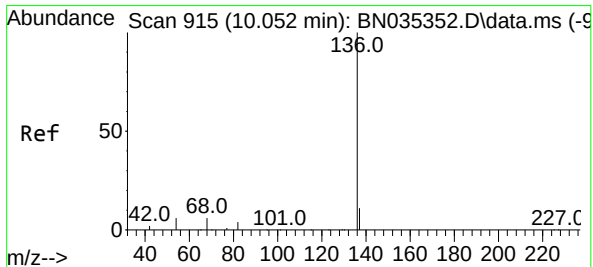
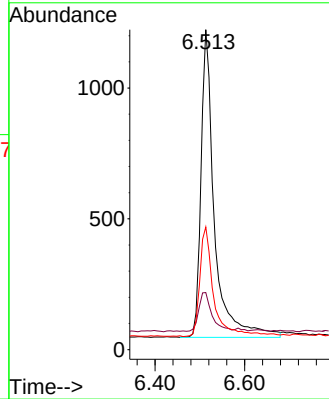
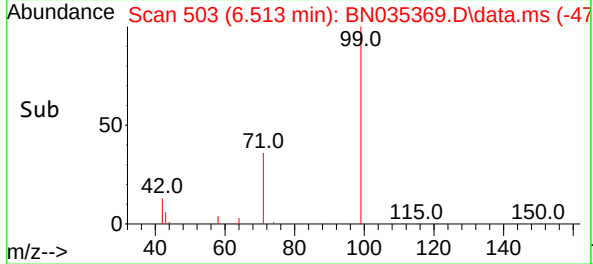
Instrument :  
BNA\_N  
ClientSampleId :  
PB165198BL



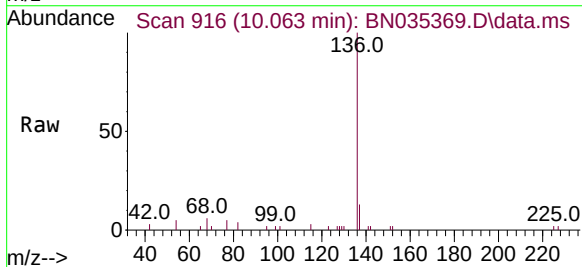
Tgt Ion: 99 Resp: 2450  
Ion Ratio Lower Upper  
99 100  
42 12.3 11.4 17.2  
71 37.2 29.3 43.9

Manual Integrations  
APPROVED

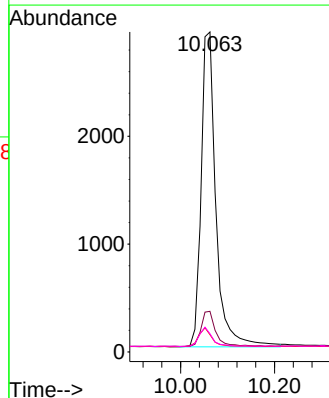
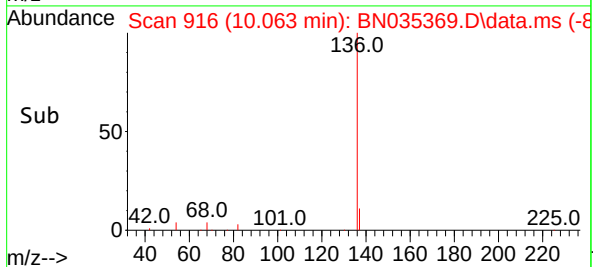
Reviewed By :Yogesh Patel 11/29/2024  
Supervised By :mohammad ahmed 11/29/2024

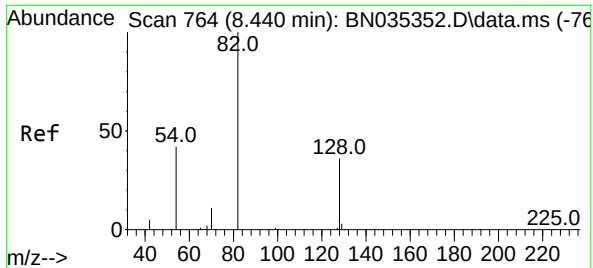


#7  
Naphthalene-d8  
Concen: 0.400 ng  
RT: 10.063 min Scan# 916  
Delta R.T. 0.011 min  
Lab File: BN035369.D  
Acq: 28 Nov 2024 05:27



Tgt Ion:136 Resp: 6378  
Ion Ratio Lower Upper  
136 100  
137 12.7 10.2 15.2  
54 5.4 6.1 9.1#  
68 5.7 6.4 9.6#





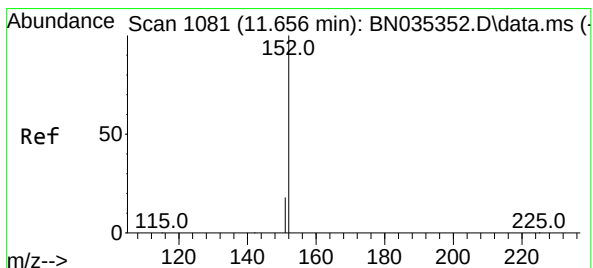
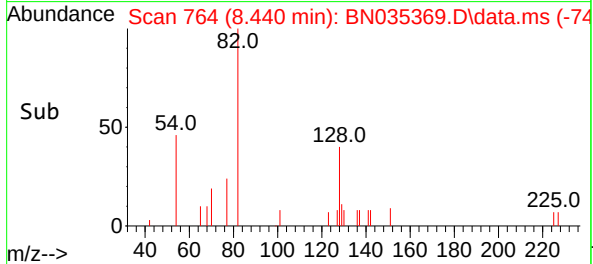
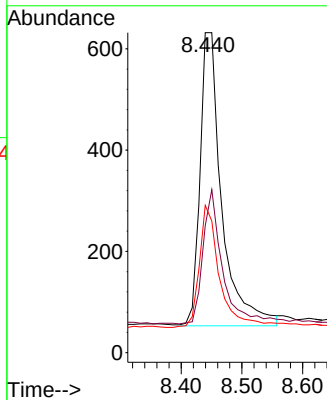
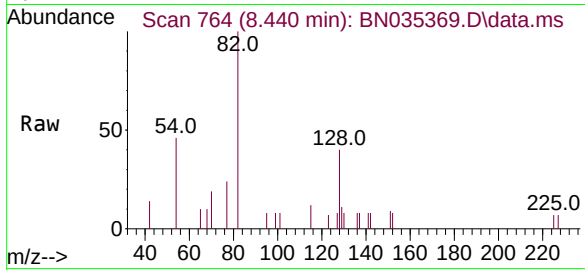
#8  
Nitrobenzene-d5  
Concen: 0.371 ng m  
RT: 8.440 min Scan# 764  
Delta R.T. -0.000 min  
Lab File: BN035369.D  
Acq: 28 Nov 2024 05:27

Instrument :  
BNA\_N  
ClientSampleId :  
PB165198BL

Tgt Ion: 82 Resp: 1440  
Ion Ratio Lower Upper  
82 100  
128 39.7 33.4 50.0  
54 46.0 36.7 55.1

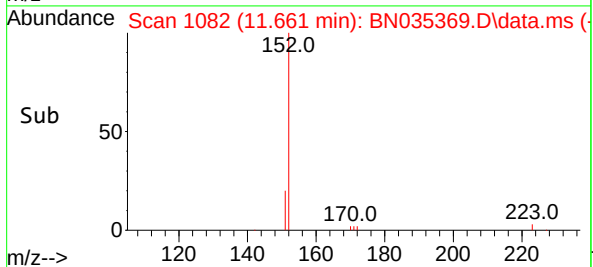
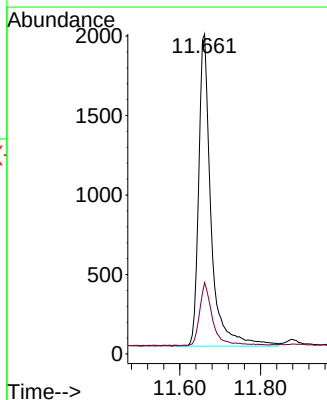
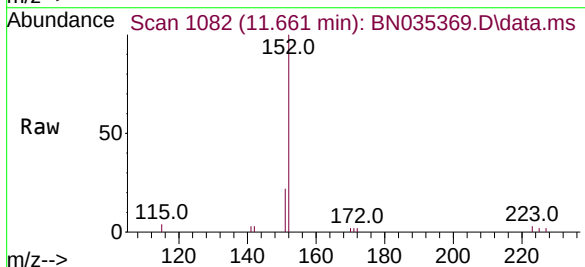
Manual Integrations  
APPROVED

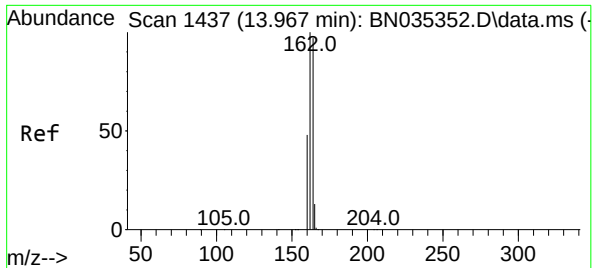
Reviewed By :Yogesh Patel 11/29/2024  
Supervised By :mohammad ahmed 11/29/2024



#11  
2-Methylnaphthalene-d10  
Concen: 0.417 ng  
RT: 11.661 min Scan# 1082  
Delta R.T. 0.005 min  
Lab File: BN035369.D  
Acq: 28 Nov 2024 05:27

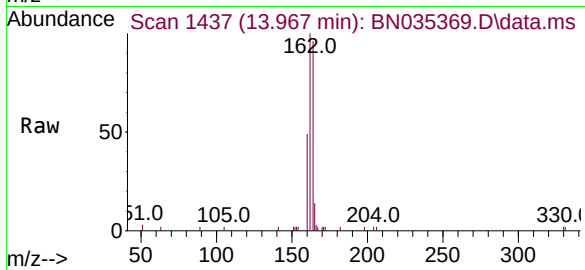
Tgt Ion:152 Resp: 4167  
Ion Ratio Lower Upper  
152 100  
151 19.9 16.6 25.0





#13  
Acenaphthene-d10  
Concen: 0.400 ng  
RT: 13.967 min Scan# 1437  
Delta R.T. -0.000 min  
Lab File: BN035369.D  
Acq: 28 Nov 2024 05:27

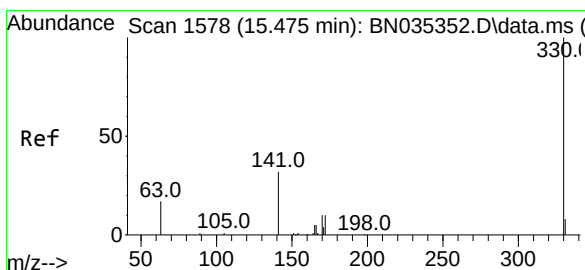
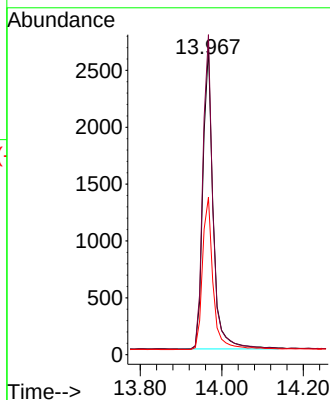
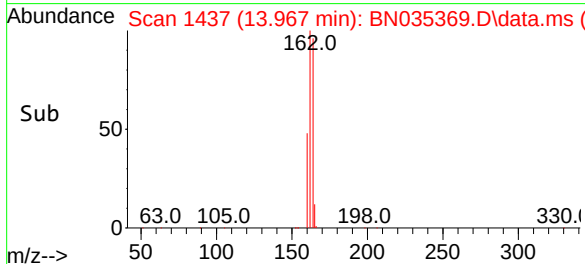
Instrument :  
BNA\_N  
ClientSampleId :  
PB165198BL



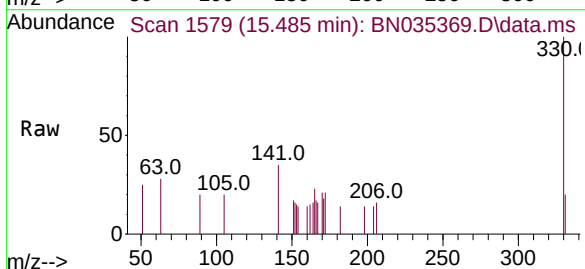
Tgt Ion:164 Resp: 4630  
Ion Ratio Lower Upper  
164 100  
162 104.4 82.2 123.2  
160 51.4 40.1 60.1

Manual Integrations  
APPROVED

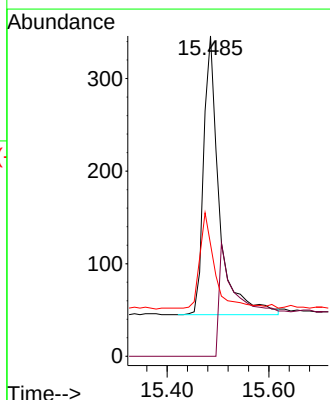
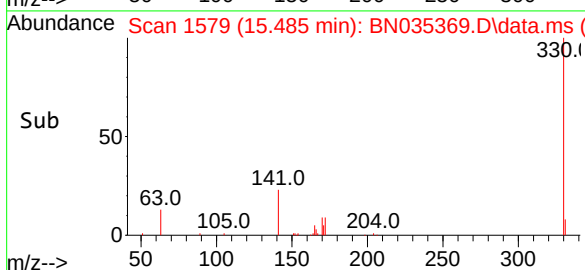
Reviewed By :Yogesh Patel 11/29/2024  
Supervised By :mohammad ahmed 11/29/2024

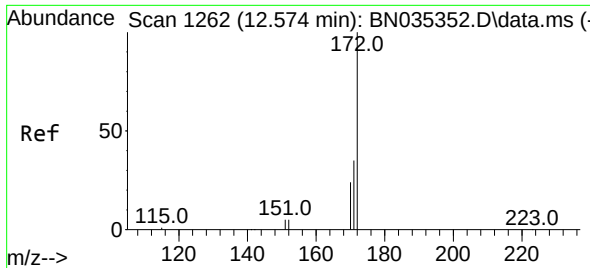


#14  
2,4,6-Tribromophenol  
Concen: 0.205 ng  
RT: 15.485 min Scan# 1579  
Delta R.T. 0.011 min  
Lab File: BN035369.D  
Acq: 28 Nov 2024 05:27



Tgt Ion:330 Resp: 675  
Ion Ratio Lower Upper  
330 100  
332 0.0 0.0 0.0  
141 33.8 26.6 40.0





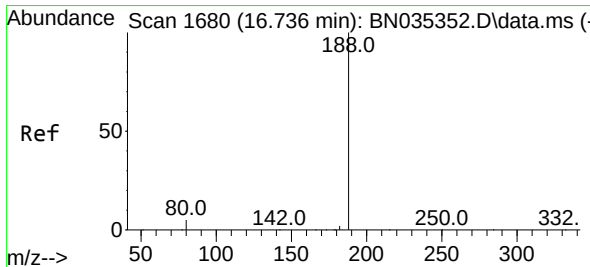
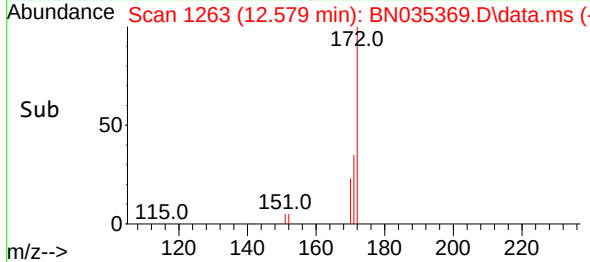
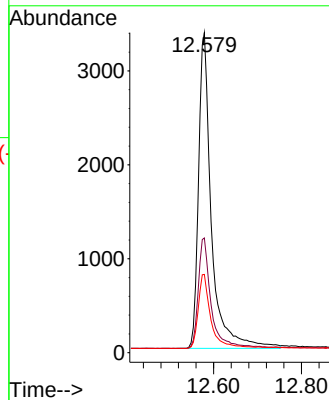
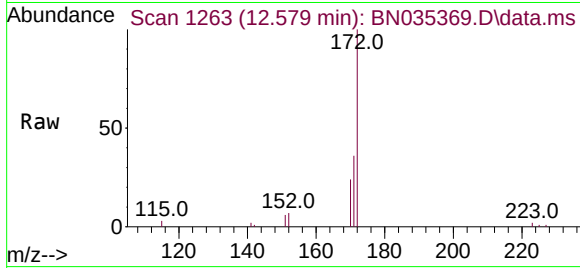
#15  
2-Fluorobiphenyl  
Concen: 0.394 ng  
RT: 12.579 min Scan# 1262  
Delta R.T. 0.005 min  
Lab File: BN035369.D  
Acq: 28 Nov 2024 05:27

Instrument :  
BNA\_N  
ClientSampleId :  
PB165198BL

Tgt Ion:172 Resp: 689  
Ion Ratio Lower Upper  
172 100  
171 35.9 29.0 43.4  
170 24.5 19.8 29.8

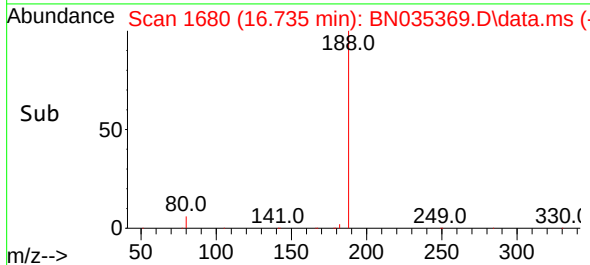
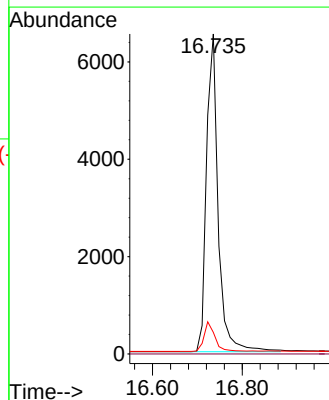
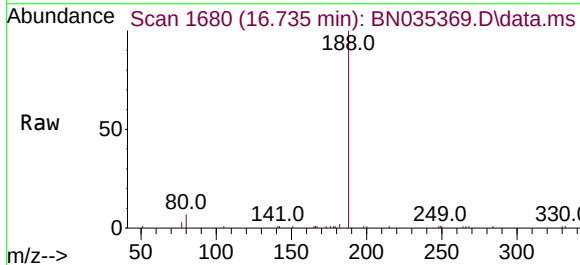
Manual Integrations  
APPROVED

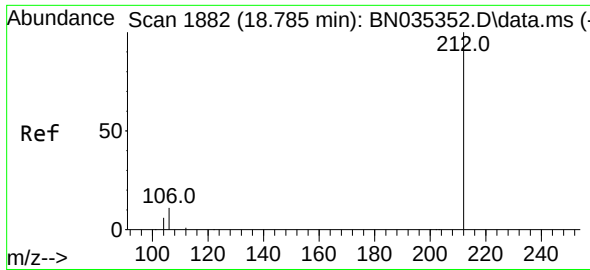
Reviewed By :Yogesh Patel 11/29/2024  
Supervised By :mohammad ahmed 11/29/2024



#19  
Phenanthrene-d10  
Concen: 0.400 ng  
RT: 16.735 min Scan# 1680  
Delta R.T. -0.000 min  
Lab File: BN035369.D  
Acq: 28 Nov 2024 05:27

Tgt Ion:188 Resp: 11721  
Ion Ratio Lower Upper  
188 100  
94 0.0 0.0 0.0  
80 6.8 4.6 6.8





#27

Fluoranthene-d10

Concen: 0.405 ng

RT: 18.784 min Scan# 1882

Delta R.T. -0.000 min

Lab File: BN035369.D

Acq: 28 Nov 2024 05:27

Instrument :

BNA\_N

ClientSampleId :

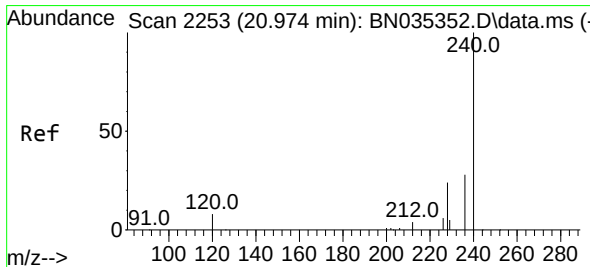
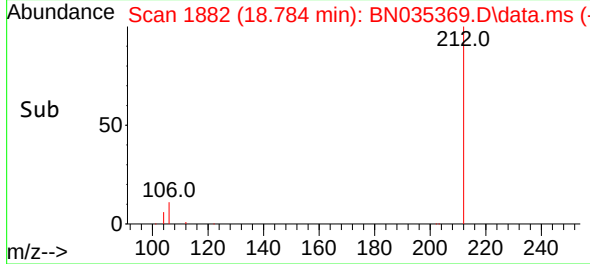
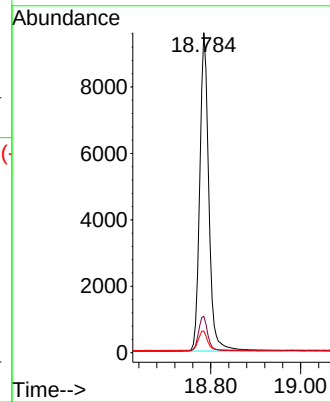
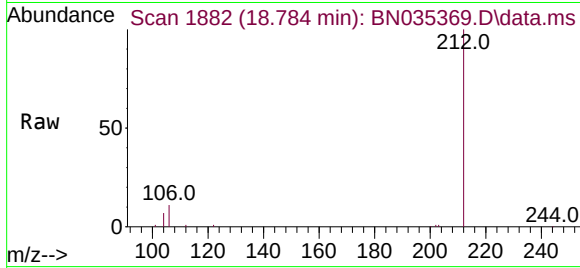
PB165198BL

|           |       |       |      |
|-----------|-------|-------|------|
| Tgt Ion:  | 212   | Resp: | 1345 |
| Ion Ratio | Lower | Upper |      |
| 212       | 100   |       |      |
| 106       | 10.9  | 9.2   | 13.8 |
| 104       | 6.2   | 5.3   | 7.9  |

Manual Integrations

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Reviewed By :Yogesh Patel 11/29/2024  
Supervised By :mohammad ahmed 11/29/2024



#29

Chrysene-d12

Concen: 0.400 ng

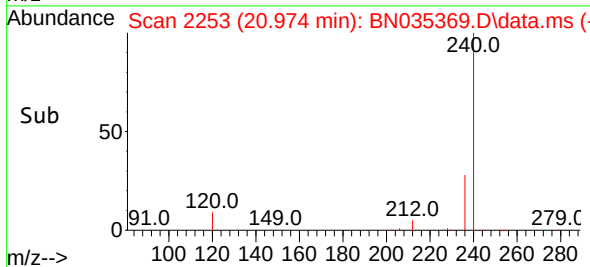
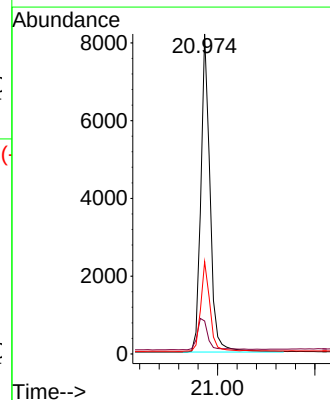
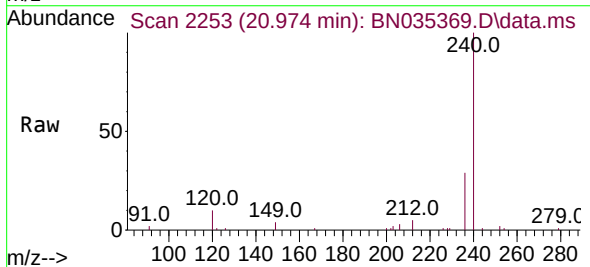
RT: 20.974 min Scan# 2253

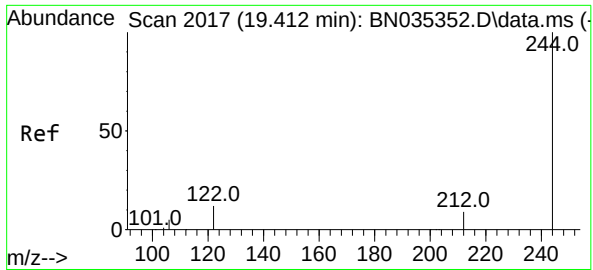
Delta R.T. -0.000 min

Lab File: BN035369.D

Acq: 28 Nov 2024 05:27

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 240   | Resp: | 10667 |
| Ion Ratio | Lower | Upper |       |
| 240       | 100   |       |       |
| 120       | 10.3  | 7.9   | 11.9  |
| 236       | 28.8  | 22.9  | 34.3  |





#31  
Terphenyl-d14  
Concen: 0.488 ng  
RT: 19.412 min Scan# 2017  
Delta R.T. -0.000 min  
Lab File: BN035369.D  
Acq: 28 Nov 2024 05:27

Instrument :

BNA\_N

ClientSampleId :

PB165198BL

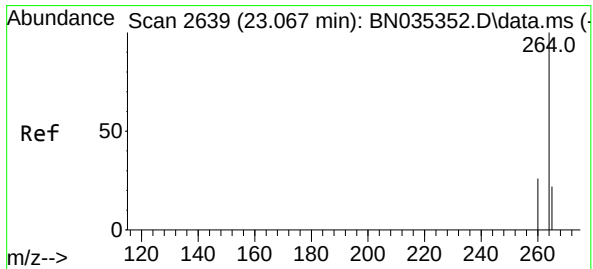
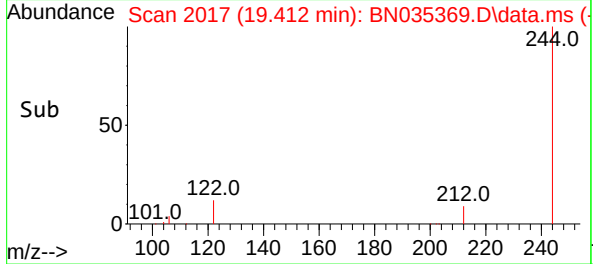
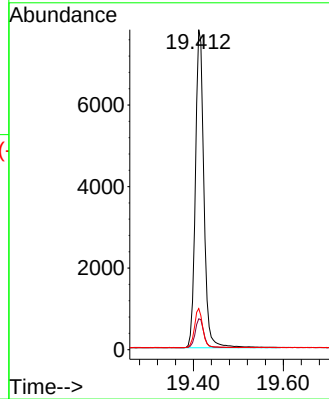
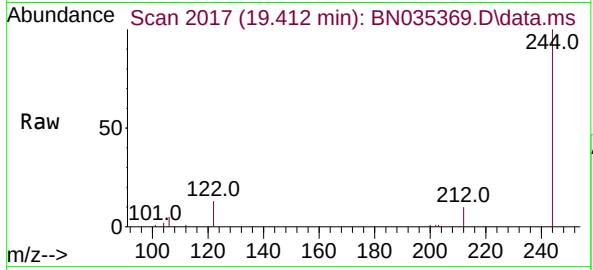
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 244     | 100   |       |       |
| 212     | 9.7   | 8.1   | 12.1  |
| 122     | 12.8  | 10.3  | 15.5  |

Manual Integrations

APPROVED

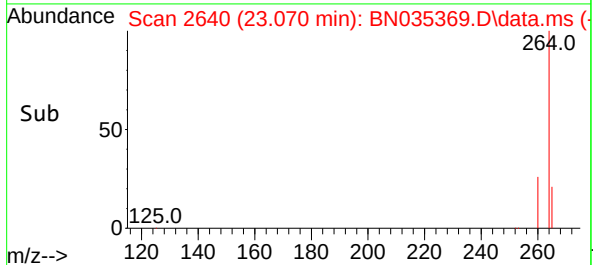
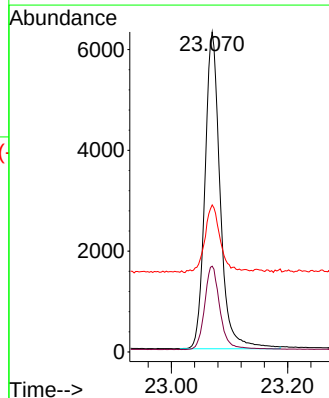
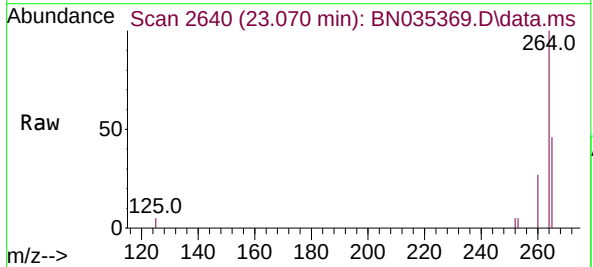
Reviewed By :Yogesh Patel 11/29/2024

Supervised By :mohammad ahmed 11/29/2024



#35  
Perylene-d12  
Concen: 0.400 ng  
RT: 23.070 min Scan# 2640  
Delta R.T. 0.003 min  
Lab File: BN035369.D  
Acq: 28 Nov 2024 05:27

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 264     | 100   |       |       |
| 260     | 26.8  | 21.4  | 32.2  |
| 265     | 46.0  | 40.2  | 60.4  |





## Report of Analysis

|                    |                      |                 |                |
|--------------------|----------------------|-----------------|----------------|
| Client:            | Tetra Tech NUS, Inc. | Date Collected: |                |
| Project:           | CTO WE13             | Date Received:  |                |
| Client Sample ID:  | PB165198BS           | SDG No.:        | P4959          |
| Lab Sample ID:     | PB165198BS           | Matrix:         | Water          |
| Analytical Method: | SW8270SIM            | % 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 :      | SW3510C              |                 |                |

|                   |           |                |                |               |
|-------------------|-----------|----------------|----------------|---------------|
| File ID/Qc Batch: | Dilution: | Prep Date      | Date Analyzed  | Prep Batch ID |
| BN035370.D        | 1         | 11/22/24 12:25 | 11/28/24 06:03 | PB165198      |

| CAS Number                | Parameter               | Conc. | Qualifier | MDL      | LOD  | LOQ / CRQL | Units    |
|---------------------------|-------------------------|-------|-----------|----------|------|------------|----------|
| <b>TARGETS</b>            |                         |       |           |          |      |            |          |
| 123-91-1                  | 1,4-Dioxane             | 0.41  |           | 0.070    | 0.20 | 0.20       | ug/L     |
| <b>SURROGATES</b>         |                         |       |           |          |      |            |          |
| 7297-45-2                 | 2-Methylnaphthalene-d10 | 0.58  |           | 30 - 150 |      | 145%       | SPK: 0.4 |
| 93951-69-0                | Fluoranthene-d10        | 0.46  |           | 30 - 150 |      | 115%       | SPK: 0.4 |
| 4165-60-0                 | Nitrobenzene-d5         | 0.47  | *         | 55 - 111 |      | 117%       | SPK: 0.4 |
| 321-60-8                  | 2-Fluorobiphenyl        | 0.48  | *         | 53 - 106 |      | 119%       | SPK: 0.4 |
| 1718-51-0                 | Terphenyl-d14           | 0.52  |           | 58 - 132 |      | 130%       | SPK: 0.4 |
| <b>INTERNAL STANDARDS</b> |                         |       |           |          |      |            |          |
| 3855-82-1                 | 1,4-Dichlorobenzene-d4  | 2260  | 7.308     |          |      |            |          |
| 1146-65-2                 | Naphthalene-d8          | 5500  | 10.052    |          |      |            |          |
| 15067-26-2                | Acenaphthene-d10        | 3690  | 13.967    |          |      |            |          |
| 1517-22-2                 | Phenanthrene-d10        | 9200  | 16.723    |          |      |            |          |
| 1719-03-5                 | Chrysene-d12            | 8670  | 20.974    |          |      |            |          |
| 1520-96-3                 | Perylene-d12            | 8920  | 23.067    |          |      |            |          |

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\BN112724\  
 Data File : BN035370.D  
 Acq On : 28 Nov 2024 06:03  
 Operator : RC/JU  
 Sample : PB165198BS  
 Misc :  
 ALS Vial : 24 Sample Multiplier: 1

Instrument :  
 BNA\_N  
 ClientSampleId :  
 PB165198BS

Manual Integrations  
 APPROVED

Reviewed By :Yogesh Patel 11/29/2024  
 Supervised By :mohammad ahmed 11/29/2024

Quant Time: Nov 28 06:28:21 2024  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\8270-SIM-BN112724.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Wed Nov 27 23:03:24 2024  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc  | Units | Dev(Min) |
|-------------------------------|--------|------|----------|-------|-------|----------|
| -----                         |        |      |          |       |       |          |
| Internal Standards            |        |      |          |       |       |          |
| 1) 1,4-Dichlorobenzene-d4     | 7.308  | 152  | 2262     | 0.400 | ng    | 0.00     |
| 7) Naphthalene-d8             | 10.052 | 136  | 5496     | 0.400 | ng    | 0.00     |
| 13) Acenaphthene-d10          | 13.967 | 164  | 3686     | 0.400 | ng    | 0.00     |
| 19) Phenanthrene-d10          | 16.723 | 188  | 9203     | 0.400 | ng    | #-0.01   |
| 29) Chrysene-d12              | 20.974 | 240  | 8666     | 0.400 | ng    | 0.00     |
| 35) Perylene-d12              | 23.067 | 264  | 8924     | 0.400 | ng    | 0.00     |
| System Monitoring Compounds   |        |      |          |       |       |          |
| 4) 2-Fluorophenol             | 4.968  | 112  | 2290     | 0.405 | ng    | 0.00     |
| 5) Phenol-d6                  | 6.513  | 99   | 2626     | 0.386 | ng    | 0.00     |
| 8) Nitrobenzene-d5            | 8.440  | 82   | 1569m    | 0.467 | ng    | 0.00     |
| 11) 2-Methylnaphthalene-d10   | 11.656 | 152  | 4975     | 0.578 | ng    | 0.00     |
| 14) 2,4,6-Tribromophenol      | 15.475 | 330  | 735      | 0.281 | ng    | 0.00     |
| 15) 2-Fluorobiphenyl          | 12.574 | 172  | 6624     | 0.475 | ng    | 0.00     |
| 27) Fluoranthene-d10          | 18.785 | 212  | 11970    | 0.459 | ng    | 0.00     |
| 31) Terphenyl-d14             | 19.412 | 244  | 8912     | 0.521 | ng    | 0.00     |
| Target Compounds              |        |      |          |       |       |          |
|                               |        |      |          |       |       | Qvalue   |
| 2) 1,4-Dioxane                | 2.996  | 88   | 876      | 0.405 | ng    | # 74     |
| 3) n-Nitrosodimethylamine     | 3.292  | 42   | 799      | 0.444 | ng    | # 91     |
| 6) bis(2-Chloroethyl)ether    | 6.759  | 93   | 2447     | 0.428 | ng    | 100      |
| 9) Naphthalene                | 10.105 | 128  | 6241     | 0.431 | ng    | 100      |
| 10) Hexachlorobutadiene       | 10.404 | 225  | 1469     | 0.439 | ng    | # 99     |
| 12) 2-Methylnaphthalene       | 11.732 | 142  | 4378     | 0.422 | ng    | 98       |
| 16) Acenaphthylene            | 13.679 | 152  | 7040     | 0.455 | ng    | 99       |
| 17) Acenaphthene              | 14.021 | 154  | 4456     | 0.434 | ng    | 100      |
| 18) Fluorene                  | 15.026 | 166  | 6228     | 0.423 | ng    | 100      |
| 20) 4,6-Dinitro-2-methylph... | 15.122 | 198  | 411      | 0.454 | ng    | 91       |
| 21) 4-Bromophenyl-phenylether | 15.941 | 248  | 2303     | 0.428 | ng    | 97       |
| 22) Hexachlorobenzene         | 16.041 | 284  | 2710     | 0.429 | ng    | 99       |
| 23) Atrazine                  | 16.227 | 200  | 1548     | 0.404 | ng    | 98       |
| 24) Pentachlorophenol         | 16.388 | 266  | 950      | 0.345 | ng    | 87       |
| 25) Phenanthrene              | 16.773 | 178  | 11082    | 0.438 | ng    | 100      |
| 26) Anthracene                | 16.860 | 178  | 10144    | 0.444 | ng    | 100      |
| 28) Fluoranthene              | 18.813 | 202  | 13705    | 0.402 | ng    | 100      |
| 30) Pyrene                    | 19.180 | 202  | 14204    | 0.444 | ng    | 100      |
| 32) Benzo(a)anthracene        | 20.956 | 228  | 13138    | 0.433 | ng    | 100      |
| 33) Chrysene                  | 21.010 | 228  | 14112    | 0.451 | ng    | 99       |
| 34) Bis(2-ethylhexyl)phtha... | 20.929 | 149  | 4912     | 0.410 | ng    | 100      |
| 36) Indeno(1,2,3-cd)pyrene    | 25.108 | 276  | 15213    | 0.436 | ng    | 99       |
| 37) Benzo(b)fluoranthene      | 22.453 | 252  | 16020    | 0.491 | ng    | 99       |
| 38) Benzo(k)fluoranthene      | 22.494 | 252  | 14448    | 0.450 | ng    | 99       |
| 39) Benzo(a)pyrene            | 22.977 | 252  | 12434    | 0.462 | ng    | 99       |
| 40) Dibenzo(a,h)anthracene    | 25.123 | 278  | 11913    | 0.433 | ng    | 99       |
| 41) Benzo(g,h,i)perylene      | 25.719 | 276  | 11556    | 0.402 | ng    | 100      |
| -----                         |        |      |          |       |       |          |

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

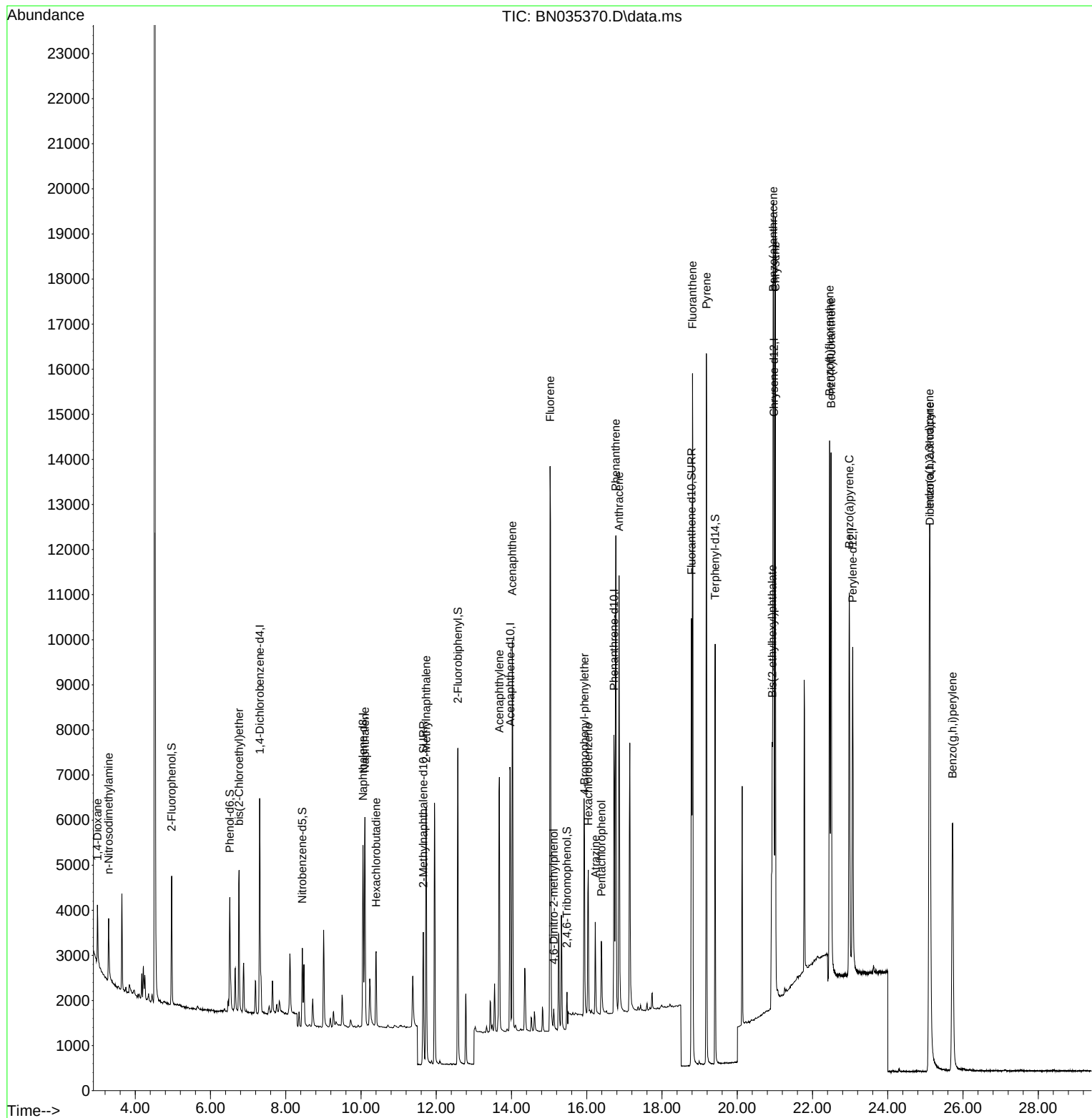
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 Operator : RC/JU  
 Sample : PB165198BS  
 Misc :  
 ALS Vial : 24 Sample Multiplier: 1

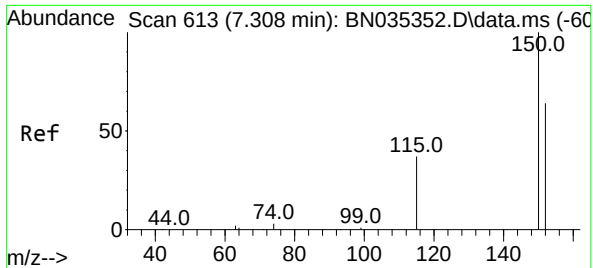
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 BNA\_N  
 ClientSampleId :  
 PB165198BS

### Manual Integrations APPROVED

Reviewed By :Yogesh Patel 11/29/2024  
 Supervised By :mohammad ahmed 11/29/2024

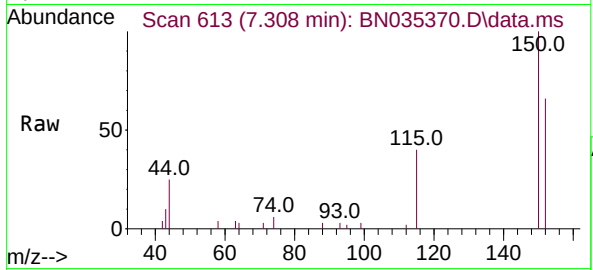
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 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\8270-SIM-BN112724.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Wed Nov 27 23:03:24 2024  
 Response via : Initial Calibration





#1  
1,4-Dichlorobenzene-d4  
Concen: 0.400 ng  
RT: 7.308 min Scan# 61  
Delta R.T. -0.000 min  
Lab File: BN035370.D  
Acq: 28 Nov 2024 06:03

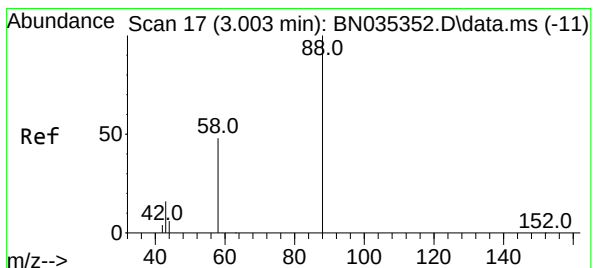
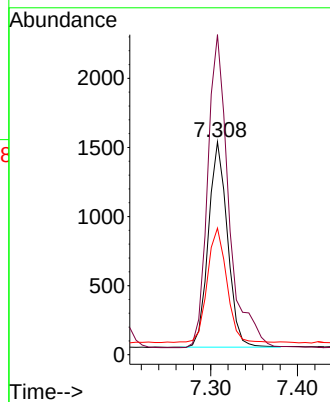
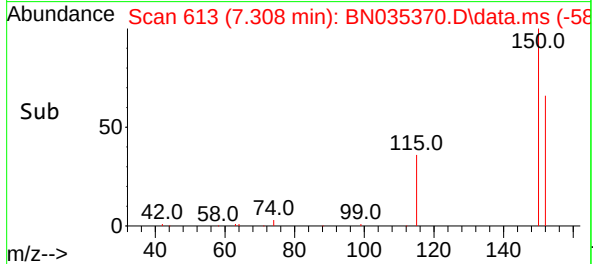
Instrument :  
BNA\_N  
ClientSampleId :  
PB165198BS



Tgt Ion:152 Resp: 226  
Ion Ratio Lower Upper  
152 100  
150 150.4 124.0 186.0  
115 59.5 49.6 74.4

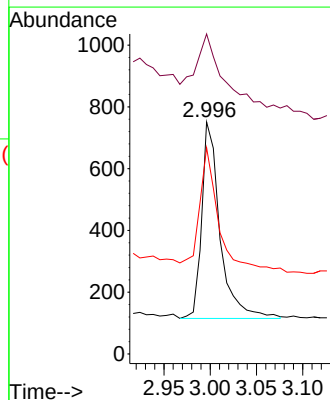
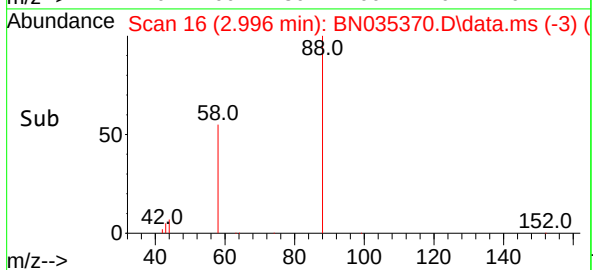
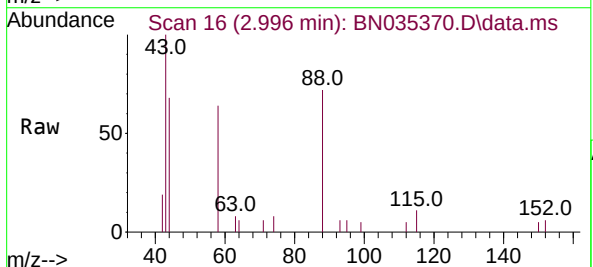
Manual Integrations  
APPROVED

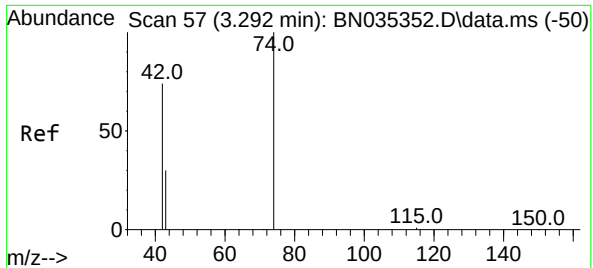
Reviewed By :Yogesh Patel 11/29/2024  
Supervised By :mohammad ahmed 11/29/2024



#2  
1,4-Dioxane  
Concen: 0.405 ng  
RT: 2.996 min Scan# 16  
Delta R.T. -0.007 min  
Lab File: BN035370.D  
Acq: 28 Nov 2024 06:03

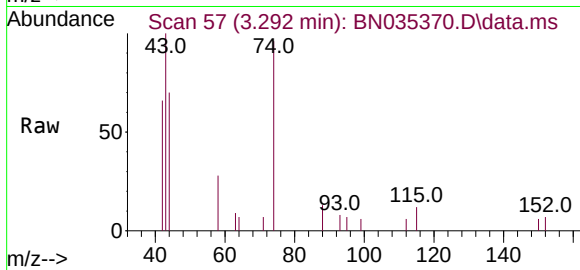
Tgt Ion: 88 Resp: 876  
Ion Ratio Lower Upper  
88 100  
43 58.3 17.2 25.8#  
58 59.7 44.5 66.7





#3  
n-Nitrosodimethylamine  
Concen: 0.444 ng  
RT: 3.292 min Scan# 57  
Delta R.T. 0.000 min  
Lab File: BN035370.D  
Acq: 28 Nov 2024 06:03

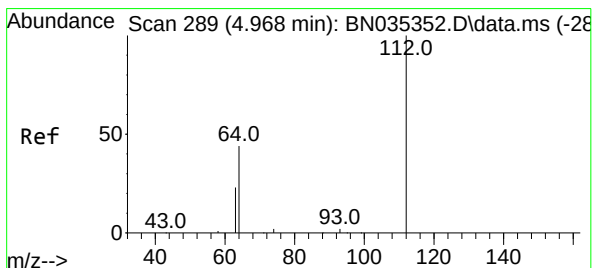
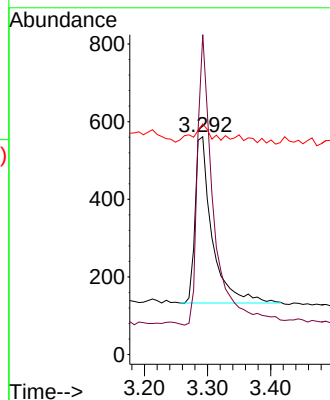
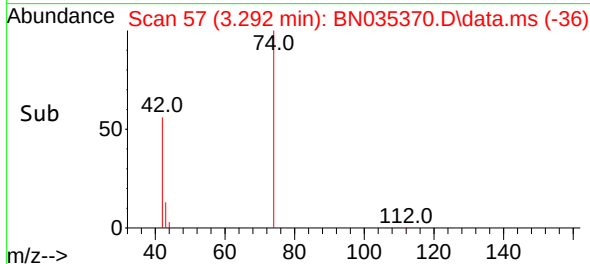
Instrument :  
BNA\_N  
ClientSampleId :  
PB165198BS



Tgt Ion: 42 Resp: 799  
Ion Ratio Lower Upper  
42 100  
74 167.0 124.9 187.3  
44 10.6 2.2 3.4

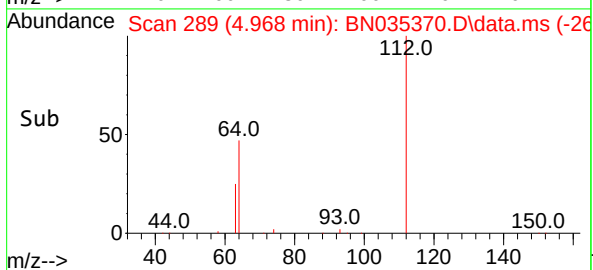
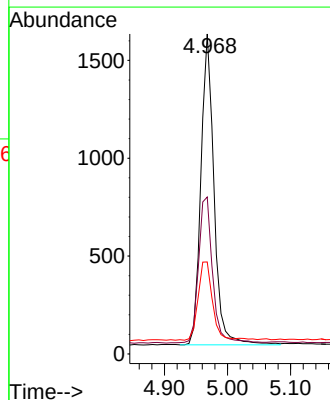
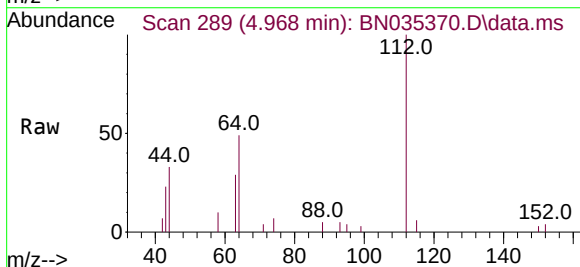
Manual Integrations  
APPROVED

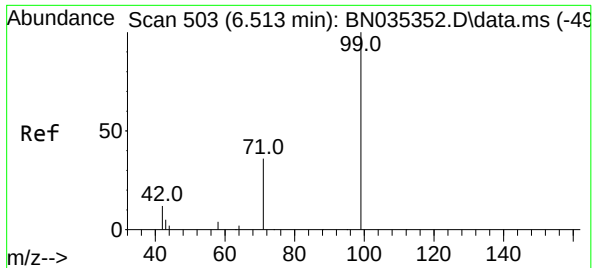
Reviewed By :Yogesh Patel 11/29/2024  
Supervised By :mohammad ahmed 11/29/2024



#4  
2-Fluorophenol  
Concen: 0.405 ng  
RT: 4.968 min Scan# 289  
Delta R.T. 0.000 min  
Lab File: BN035370.D  
Acq: 28 Nov 2024 06:03

Tgt Ion:112 Resp: 2290  
Ion Ratio Lower Upper  
112 100  
64 50.4 39.8 59.8  
63 28.0 21.0 31.6





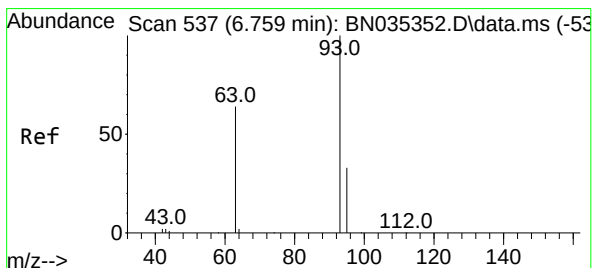
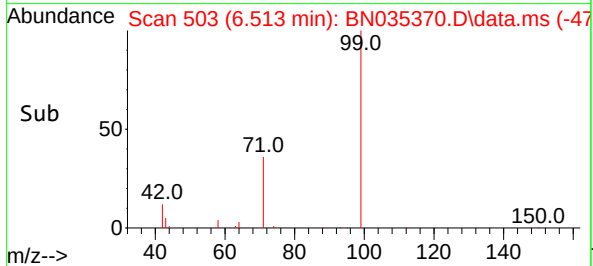
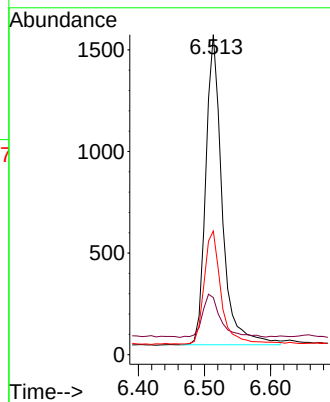
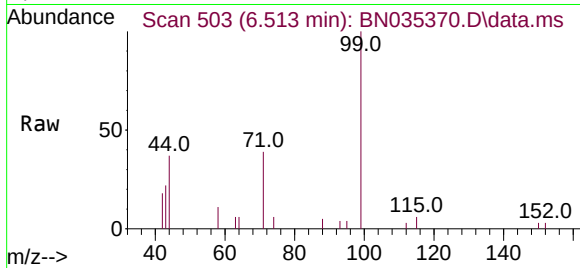
#5  
Phenol-d6  
Concen: 0.386 ng  
RT: 6.513 min Scan# 503  
Delta R.T. 0.000 min  
Lab File: BN035370.D  
Acq: 28 Nov 2024 06:03

Instrument :  
BNA\_N  
ClientSampleId :  
PB165198BS

Tgt Ion: 99 Resp: 2620  
Ion Ratio Lower Upper  
99 100  
42 15.6 11.4 17.2  
71 37.5 29.3 43.9

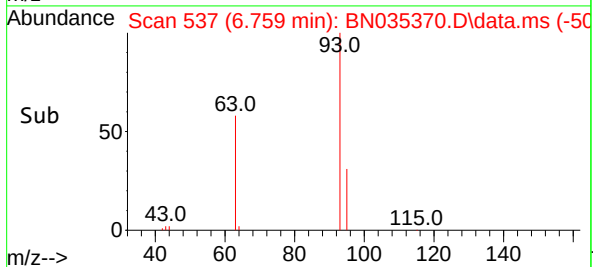
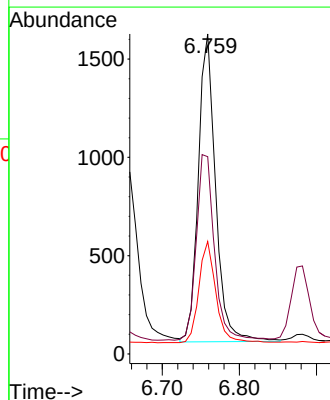
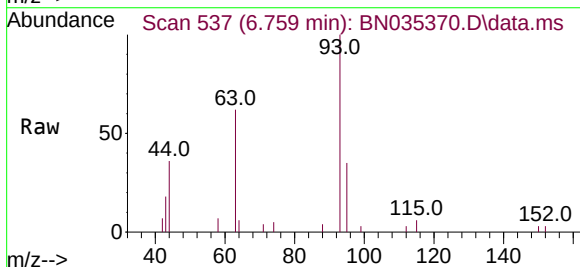
Manual Integrations  
APPROVED

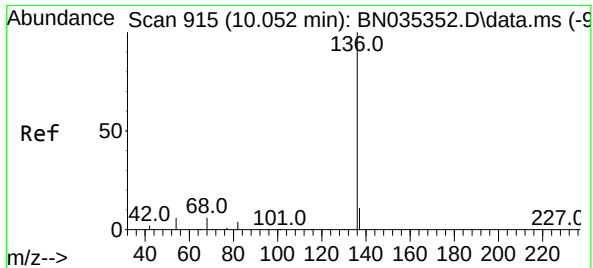
Reviewed By :Yogesh Patel 11/29/2024  
Supervised By :mohammad ahmed 11/29/2024



#6  
bis(2-Chloroethyl)ether  
Concen: 0.428 ng  
RT: 6.759 min Scan# 537  
Delta R.T. 0.000 min  
Lab File: BN035370.D  
Acq: 28 Nov 2024 06:03

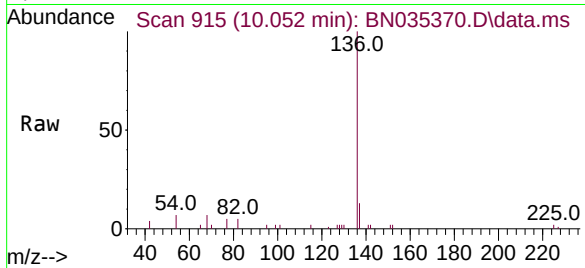
Tgt Ion: 93 Resp: 2447  
Ion Ratio Lower Upper  
93 100  
63 63.1 50.4 75.6  
95 32.0 25.7 38.5





#7  
Naphthalene-d8  
Concen: 0.400 ng  
RT: 10.052 min Scan# 915  
Delta R.T. 0.000 min  
Lab File: BN035370.D  
Acq: 28 Nov 2024 06:03

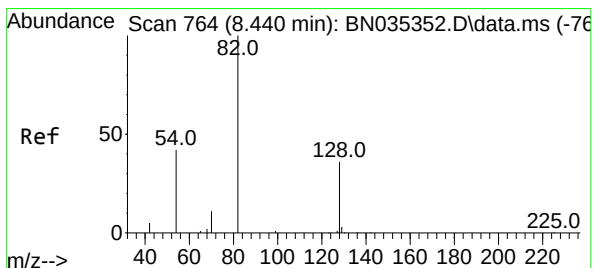
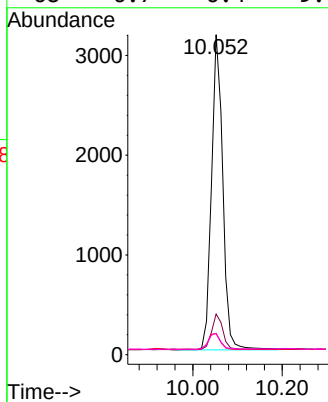
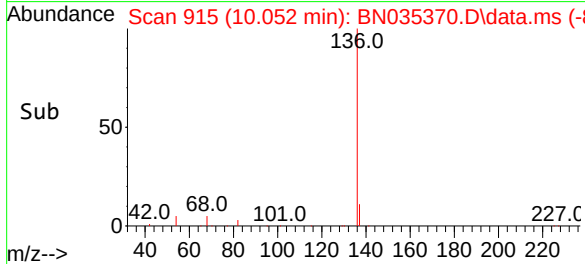
Instrument :  
BNA\_N  
ClientSampleId :  
PB165198BS



Tgt Ion: 136 Resp: 5490  
Ion Ratio Lower Upper  
136 100  
137 12.7 10.2 15.2  
54 6.6 6.1 9.1  
68 6.7 6.4 9.6

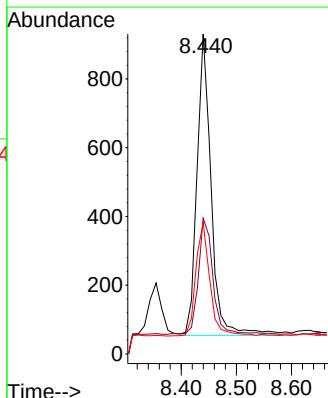
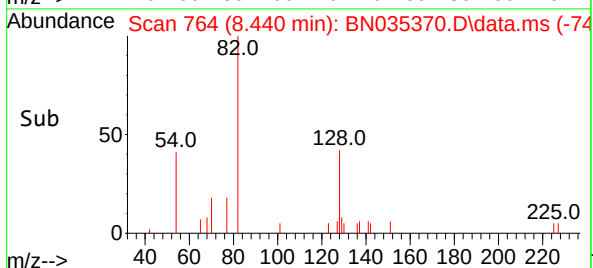
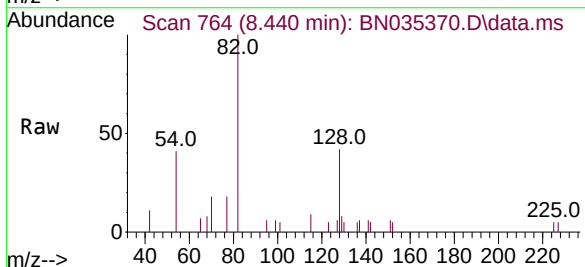
Manual Integrations  
APPROVED

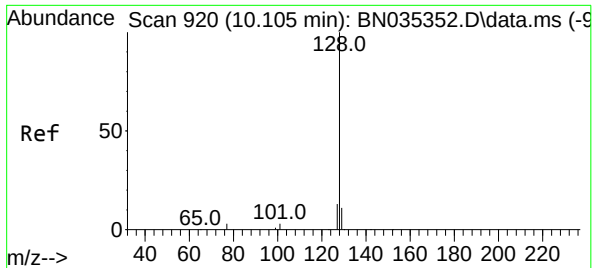
Reviewed By :Yogesh Patel 11/29/2024  
Supervised By :mohammad ahmed 11/29/2024



#8  
Nitrobenzene-d5  
Concen: 0.467 ng m  
RT: 8.440 min Scan# 764  
Delta R.T. 0.000 min  
Lab File: BN035370.D  
Acq: 28 Nov 2024 06:03

Tgt Ion: 82 Resp: 1569  
Ion Ratio Lower Upper  
82 100  
128 42.4 33.4 50.0  
54 41.1 36.7 55.1





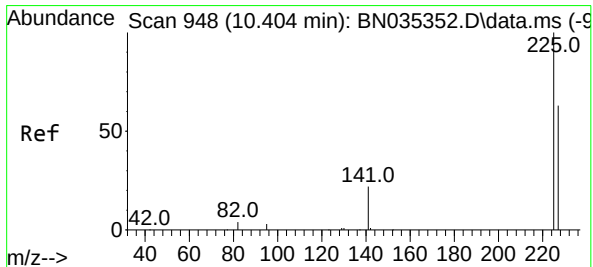
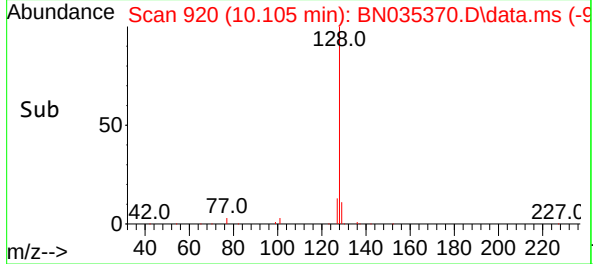
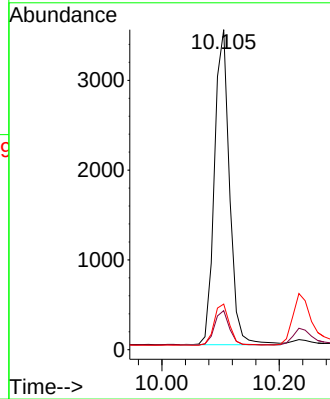
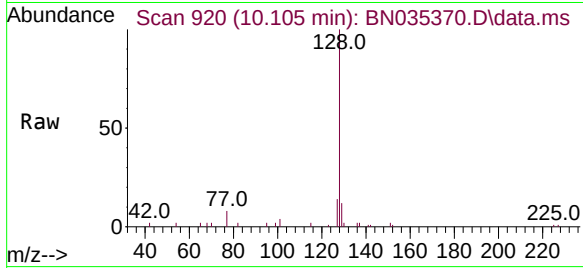
#9  
Naphthalene  
Concen: 0.431 ng  
RT: 10.105 min Scan# 91  
Delta R.T. 0.000 min  
Lab File: BN035370.D  
Acq: 28 Nov 2024 06:03

Instrument :  
BNA\_N  
ClientSampleId :  
PB165198BS

Tgt Ion:128 Resp: 624  
Ion Ratio Lower Upper  
128 100  
129 12.2 9.8 14.6  
127 14.2 11.4 17.2

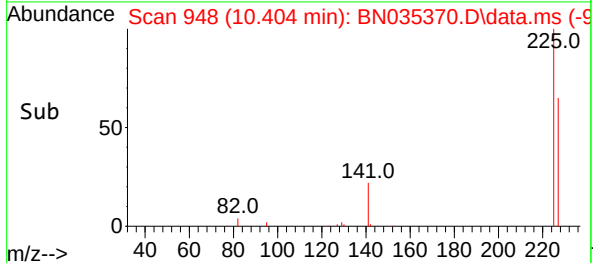
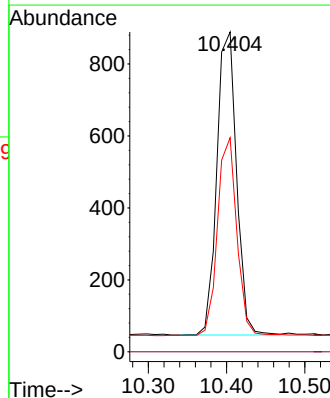
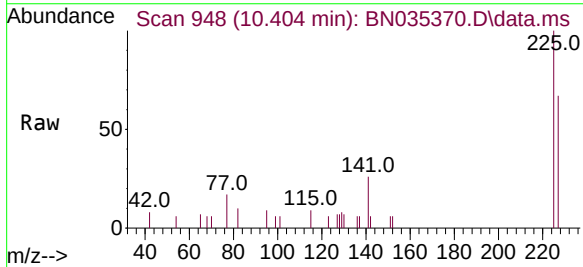
Manual Integrations  
APPROVED

Reviewed By :Yogesh Patel 11/29/2024  
Supervised By :mohammad ahmed 11/29/2024

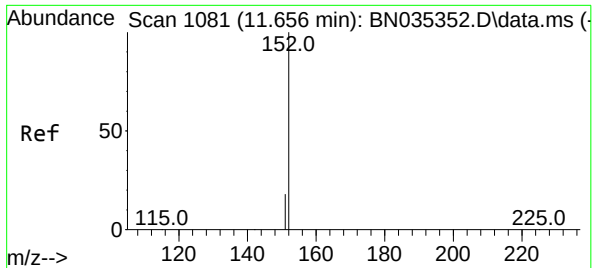


#10  
Hexachlorobutadiene  
Concen: 0.439 ng  
RT: 10.404 min Scan# 948  
Delta R.T. 0.000 min  
Lab File: BN035370.D  
Acq: 28 Nov 2024 06:03

Tgt Ion:225 Resp: 1469  
Ion Ratio Lower Upper  
225 100  
223 0.0 0.0 0.0  
227 64.7 51.3 76.9

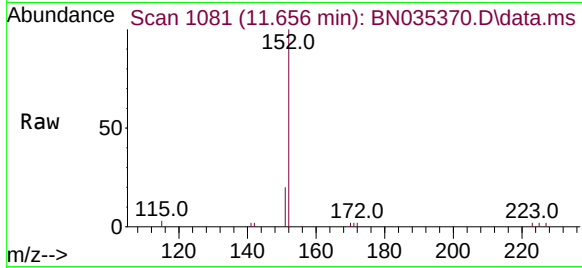






#11  
2-Methylnaphthalene-d10  
Concen: 0.578 ng  
RT: 11.656 min Scan# 1081  
Delta R.T. 0.000 min  
Lab File: BN035370.D  
Acq: 28 Nov 2024 06:03

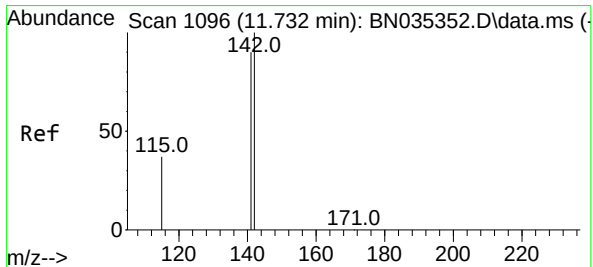
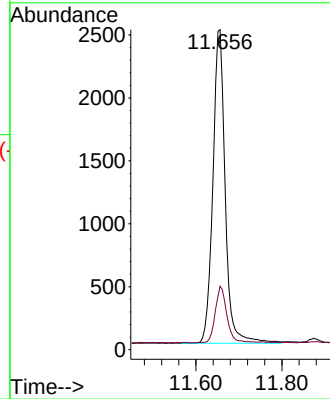
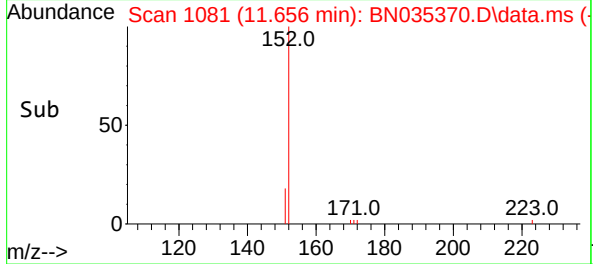
Instrument :  
BNA\_N  
ClientSampleId :  
PB165198BS



Tgt Ion:152 Resp: 4975  
Ion Ratio Lower Upper  
152 100  
151 16.9 16.6 25.0

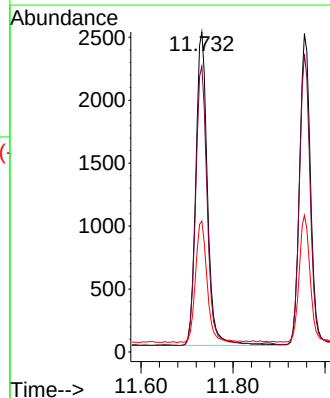
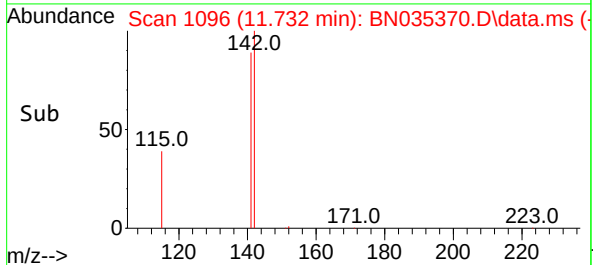
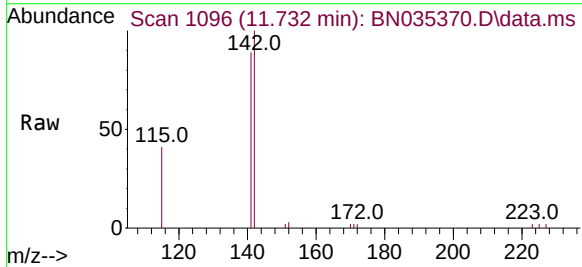
Manual Integrations  
APPROVED

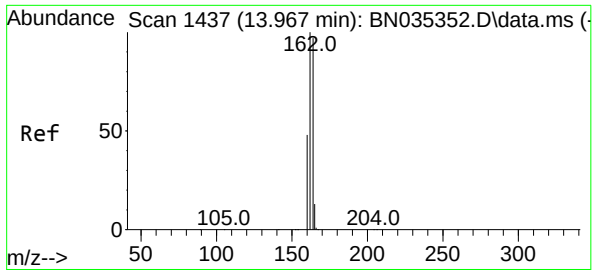
Reviewed By :Yogesh Patel 11/29/2024  
Supervised By :mohammad ahmed 11/29/2024



#12  
2-Methylnaphthalene  
Concen: 0.422 ng  
RT: 11.732 min Scan# 1096  
Delta R.T. 0.000 min  
Lab File: BN035370.D  
Acq: 28 Nov 2024 06:03

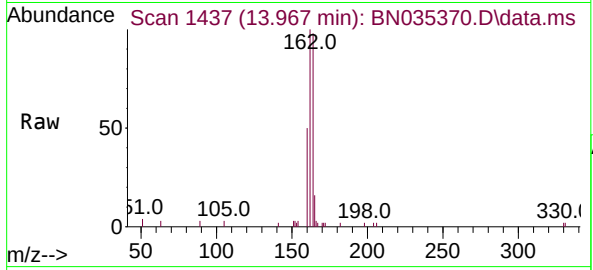
Tgt Ion:142 Resp: 4378  
Ion Ratio Lower Upper  
142 100  
141 89.3 72.2 108.4  
115 40.8 31.4 47.0





#13  
Acenaphthene-d10  
Concen: 0.400 ng  
RT: 13.967 min Scan# 1437  
Delta R.T. 0.000 min  
Lab File: BN035370.D  
Acq: 28 Nov 2024 06:03

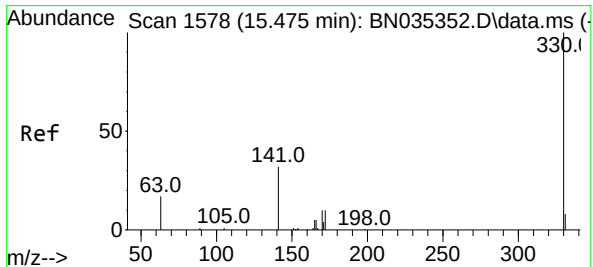
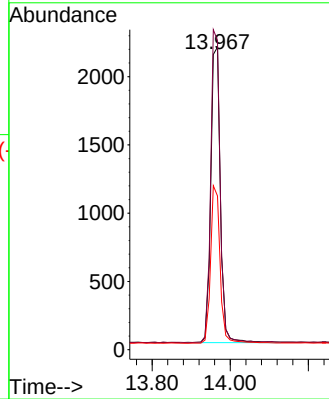
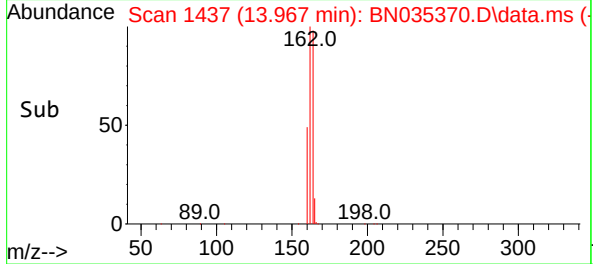
Instrument :  
BNA\_N  
ClientSampleId :  
PB165198BS



Tgt Ion:164 Resp: 3680  
Ion Ratio Lower Upper  
164 100  
162 102.2 82.2 123.2  
160 50.8 40.1 60.1

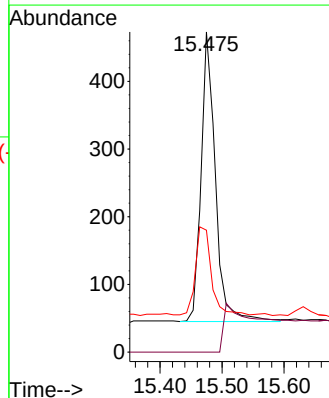
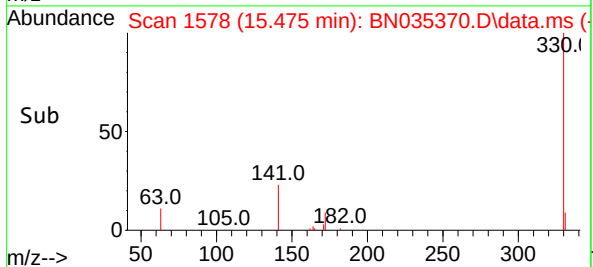
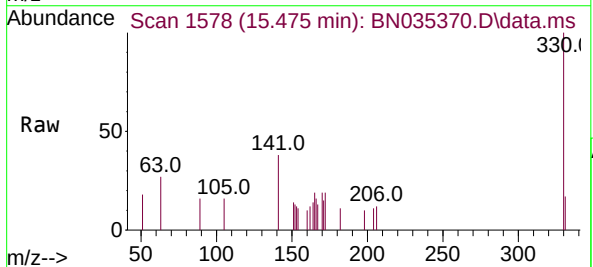
Manual Integrations  
**APPROVED**

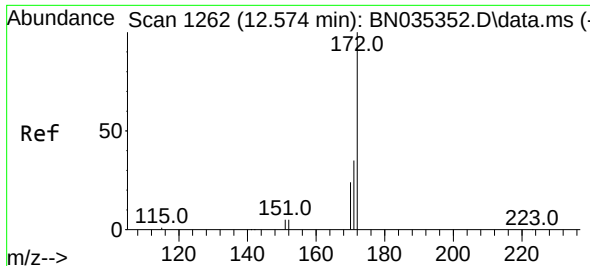
Reviewed By :Yogesh Patel 11/29/2024  
Supervised By :mohammad ahmed 11/29/2024



#14  
2,4,6-Tribromophenol  
Concen: 0.281 ng  
RT: 15.475 min Scan# 1578  
Delta R.T. 0.000 min  
Lab File: BN035370.D  
Acq: 28 Nov 2024 06:03

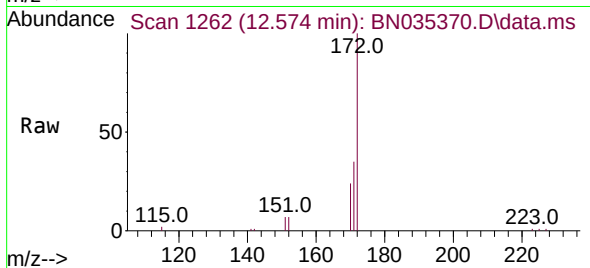
Tgt Ion:330 Resp: 735  
Ion Ratio Lower Upper  
330 100  
332 0.0 0.0 0.0  
141 34.6 26.6 40.0





#15  
2-Fluorobiphenyl  
Concen: 0.475 ng  
RT: 12.574 min Scan# 11  
Delta R.T. 0.000 min  
Lab File: BN035370.D  
Acq: 28 Nov 2024 06:03

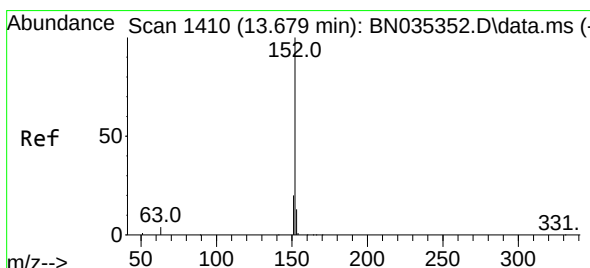
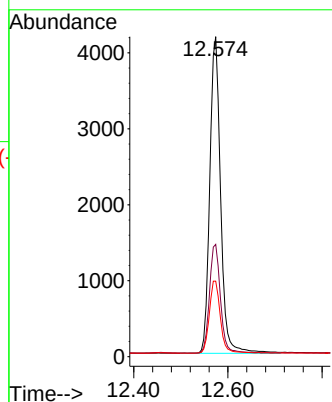
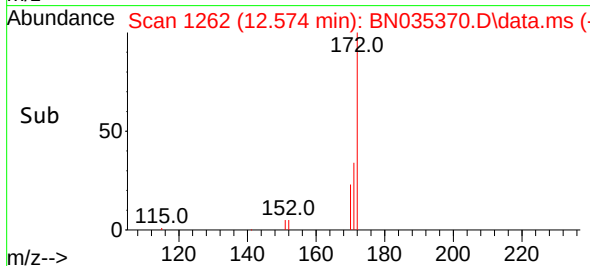
Instrument :  
BNA\_N  
ClientSampleId :  
PB165198BS



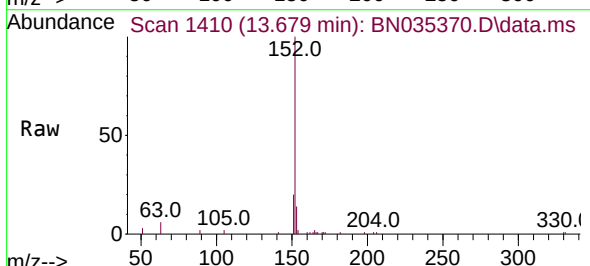
Tgt Ion:172 Resp: 6624  
Ion Ratio Lower Upper  
172 100  
171 35.1 29.0 43.4  
170 23.6 19.8 29.8

Manual Integrations  
**APPROVED**

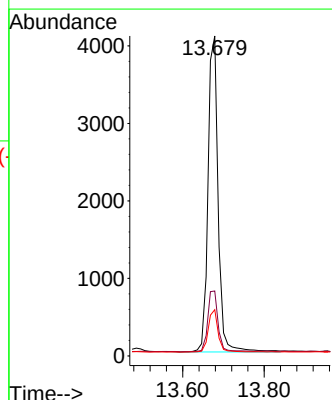
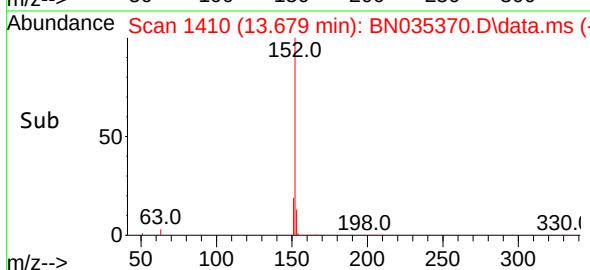
Reviewed By :Yogesh Patel 11/29/2024  
Supervised By :mohammad ahmed 11/29/2024

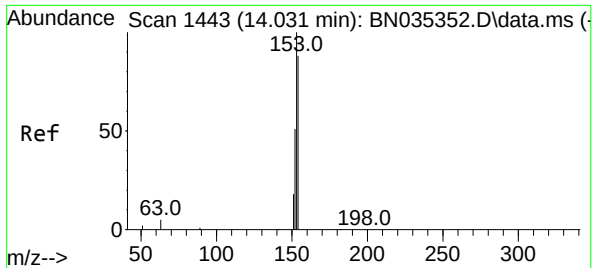


#16  
Acenaphthylene  
Concen: 0.455 ng  
RT: 13.679 min Scan# 1410  
Delta R.T. 0.000 min  
Lab File: BN035370.D  
Acq: 28 Nov 2024 06:03



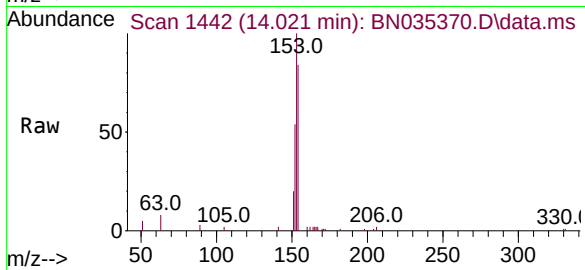
Tgt Ion:152 Resp: 7040  
Ion Ratio Lower Upper  
152 100  
151 19.9 16.2 24.2  
153 13.2 10.4 15.6





#17  
Acenaphthene  
Concen: 0.434 ng  
RT: 14.021 min Scan# 1442  
Delta R.T. -0.011 min  
Lab File: BN035370.D  
Acq: 28 Nov 2024 06:03

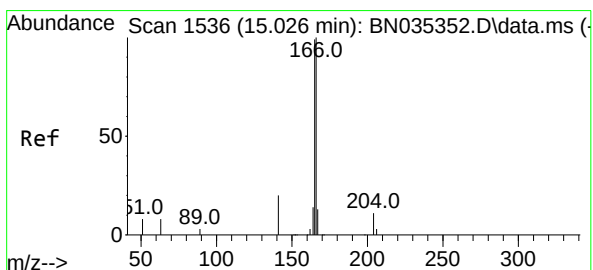
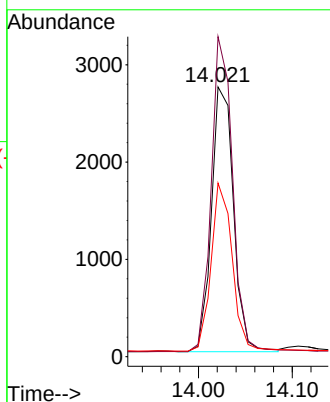
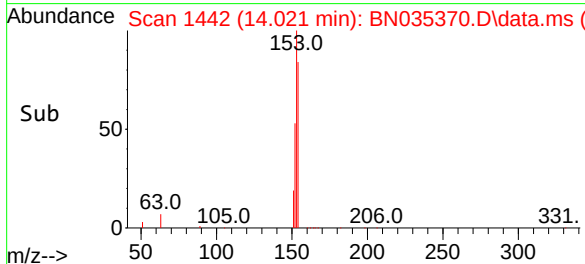
Instrument :  
BNA\_N  
ClientSampleId :  
PB165198BS



Tgt Ion:154 Resp: 4450  
Ion Ratio Lower Upper  
154 100  
153 115.6 92.6 139.0  
152 61.5 49.0 73.6

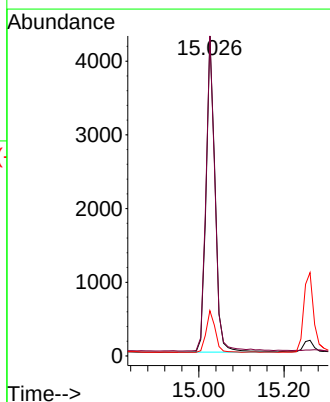
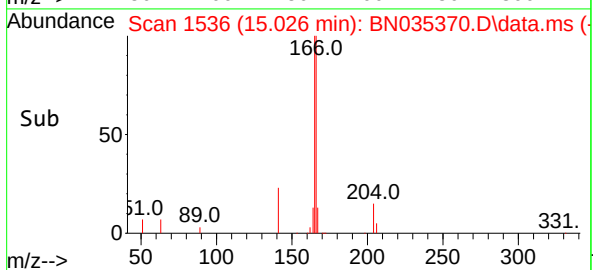
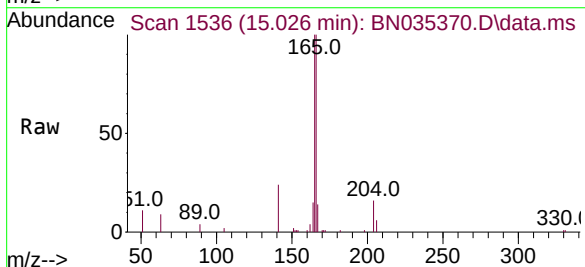
Manual Integrations  
**APPROVED**

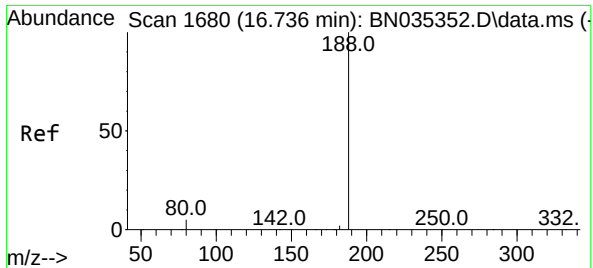
Reviewed By :Yogesh Patel 11/29/2024  
Supervised By :mohammad ahmed 11/29/2024



#18  
Fluorene  
Concen: 0.423 ng  
RT: 15.026 min Scan# 1536  
Delta R.T. 0.000 min  
Lab File: BN035370.D  
Acq: 28 Nov 2024 06:03

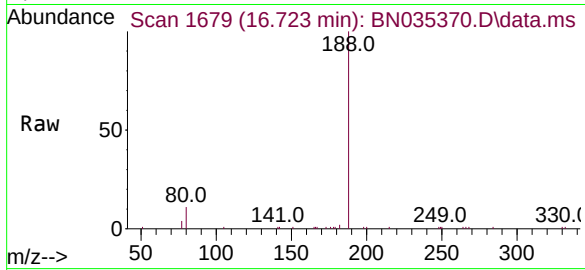
Tgt Ion:166 Resp: 6228  
Ion Ratio Lower Upper  
166 100  
165 100.0 79.7 119.5  
167 13.3 10.8 16.2





#19  
Phenanthrene-d10  
Concen: 0.400 ng  
RT: 16.723 min Scan# 1679  
Delta R.T. -0.012 min  
Lab File: BN035370.D  
Acq: 28 Nov 2024 06:03

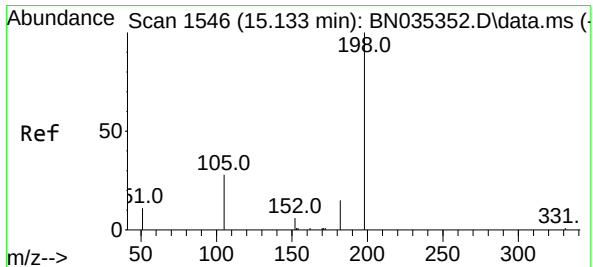
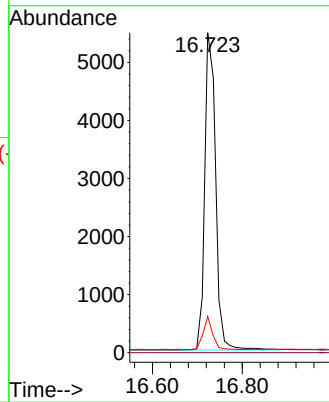
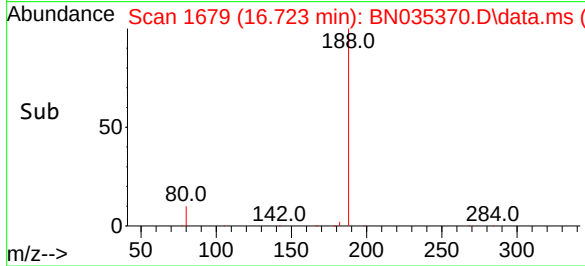
Instrument :  
BNA\_N  
ClientSampleId :  
PB165198BS



Tgt Ion:188 Resp: 920  
Ion Ratio Lower Upper  
188 100  
94 0.0 0.0 0.0  
80 11.3 4.6 6.8

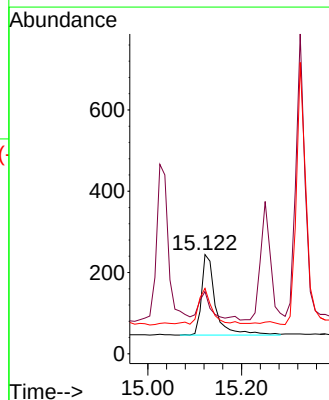
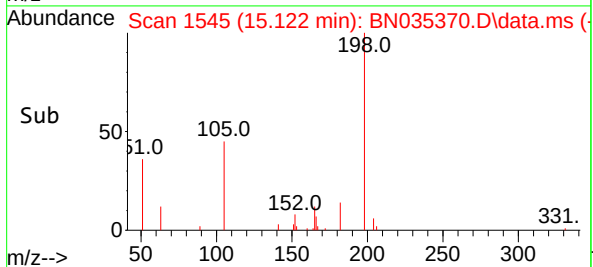
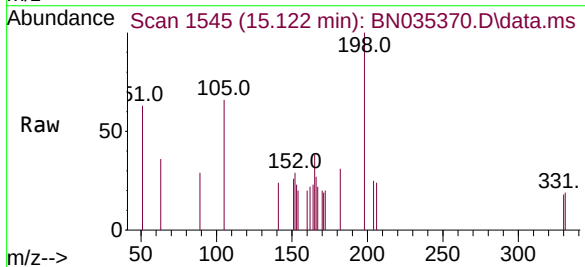
Manual Integrations  
**APPROVED**

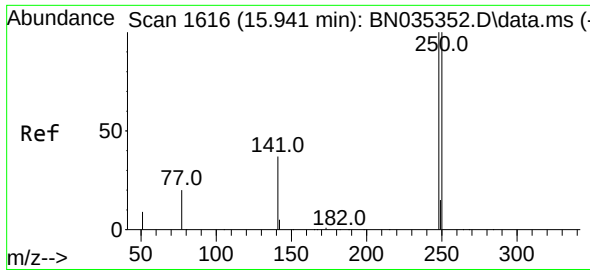
Reviewed By :Yogesh Patel 11/29/2024  
Supervised By :mohammad ahmed 11/29/2024



#20  
4,6-Dinitro-2-methylphenol  
Concen: 0.454 ng  
RT: 15.122 min Scan# 1545  
Delta R.T. -0.011 min  
Lab File: BN035370.D  
Acq: 28 Nov 2024 06:03

Tgt Ion:198 Resp: 411  
Ion Ratio Lower Upper  
198 100  
51 62.7 46.5 69.7  
105 66.0 45.3 67.9





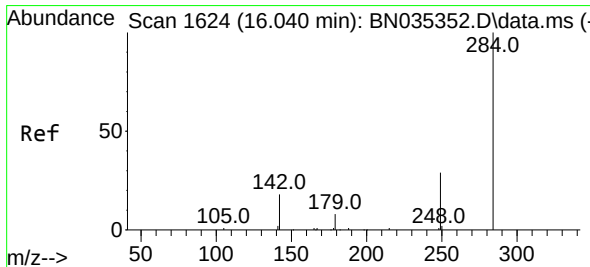
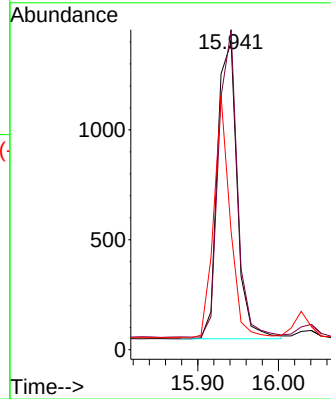
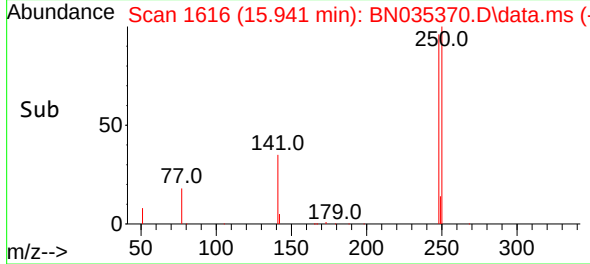
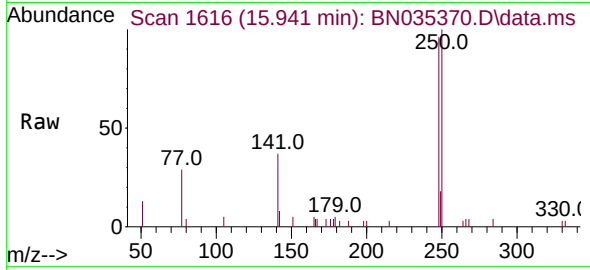
#21  
4-Bromophenyl-phenylether  
Concen: 0.428 ng  
RT: 15.941 min Scan# 1616  
Delta R.T. 0.000 min  
Lab File: BN035370.D  
Acq: 28 Nov 2024 06:03

Instrument :  
BNA\_N  
ClientSampleId :  
PB165198BS

Tgt Ion:248 Resp: 230  
Ion Ratio Lower Upper  
248 100  
250 104.1 80.6 120.8  
141 38.3 31.5 47.3

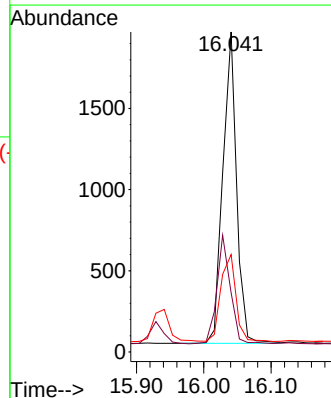
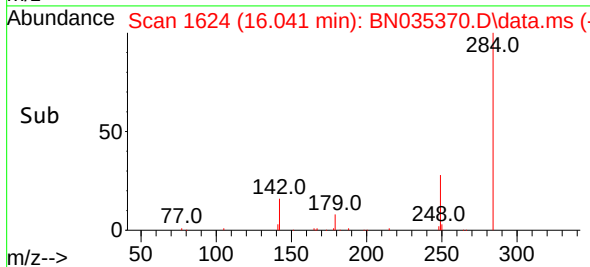
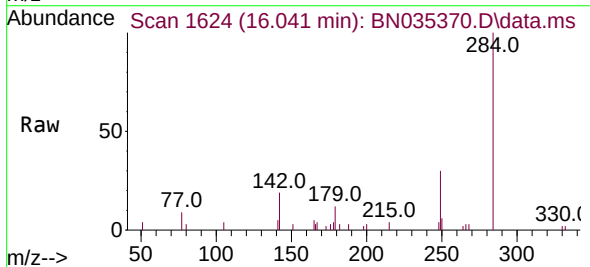
Manual Integrations  
**APPROVED**

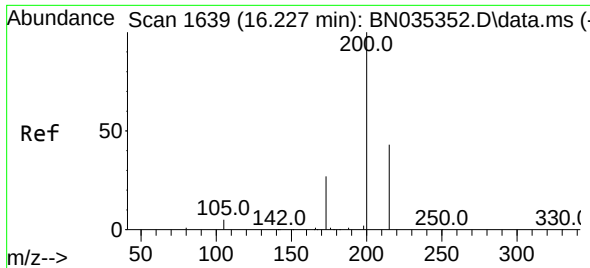
Reviewed By :Yogesh Patel 11/29/2024  
Supervised By :mohammad ahmed 11/29/2024



#22  
Hexachlorobenzene  
Concen: 0.429 ng  
RT: 16.041 min Scan# 1624  
Delta R.T. 0.000 min  
Lab File: BN035370.D  
Acq: 28 Nov 2024 06:03

Tgt Ion:284 Resp: 2710  
Ion Ratio Lower Upper  
284 100  
142 34.3 26.7 40.1  
249 30.8 24.6 36.8





#23

Atrazine

Concen: 0.404 ng

RT: 16.227 min Scan# 1639

Delta R.T. 0.000 min

Lab File: BN035370.D

Acq: 28 Nov 2024 06:03

Instrument :

BNA\_N

ClientSampleId :

PB165198BS

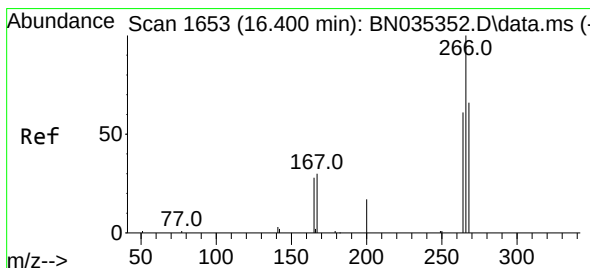
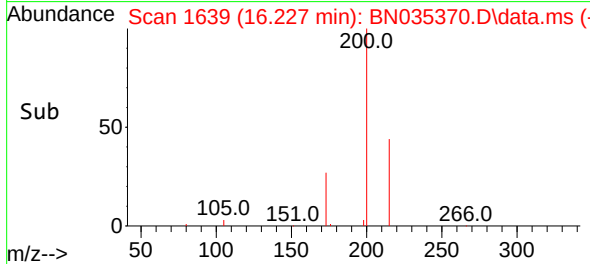
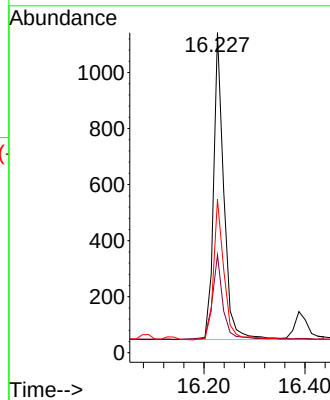
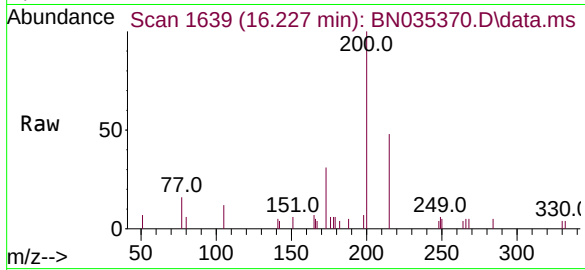
|           |       |       |      |
|-----------|-------|-------|------|
| Tgt Ion:  | 200   | Resp: | 1548 |
| Ion Ratio | Lower | Upper |      |
| 200       | 100   |       |      |
| 173       | 30.6  | 24.1  | 36.1 |
| 215       | 47.9  | 36.9  | 55.3 |

Manual Integrations

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Reviewed By :Yogesh Patel 11/29/2024

Supervised By :mohammad ahmed 11/29/2024



#24

Pentachlorophenol

Concen: 0.345 ng

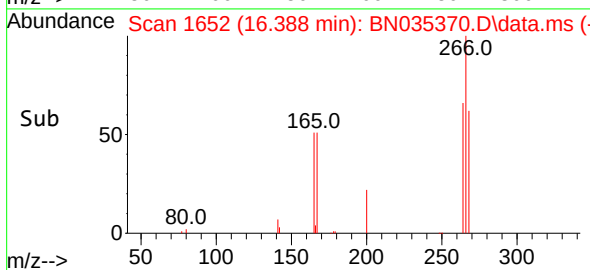
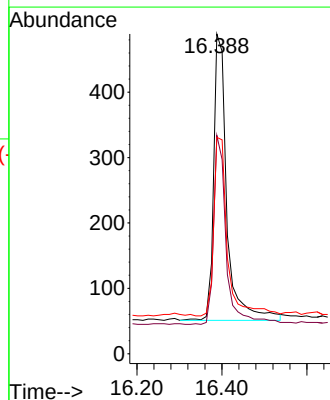
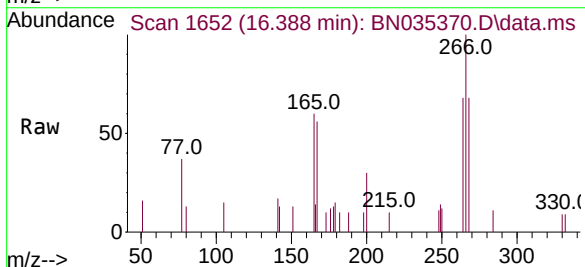
RT: 16.388 min Scan# 1652

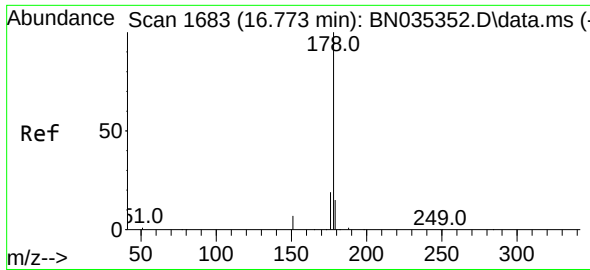
Delta R.T. -0.012 min

Lab File: BN035370.D

Acq: 28 Nov 2024 06:03

|           |       |       |      |
|-----------|-------|-------|------|
| Tgt Ion:  | 266   | Resp: | 950  |
| Ion Ratio | Lower | Upper |      |
| 266       | 100   |       |      |
| 264       | 62.4  | 42.3  | 63.5 |
| 268       | 63.8  | 43.3  | 64.9 |





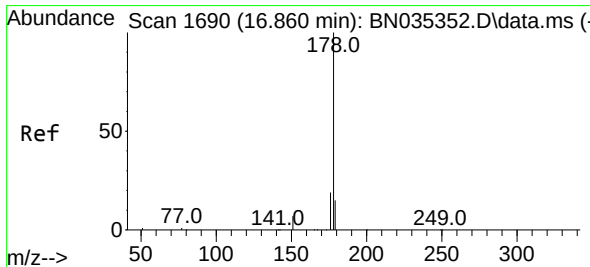
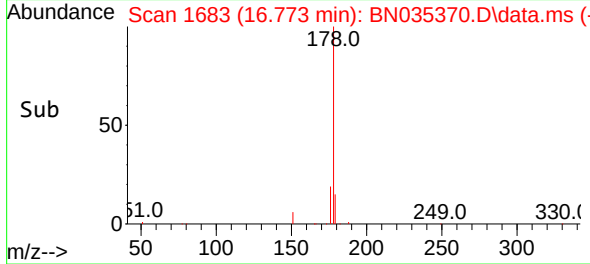
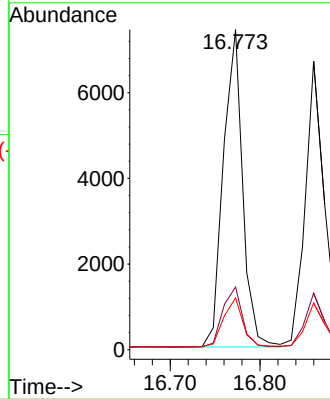
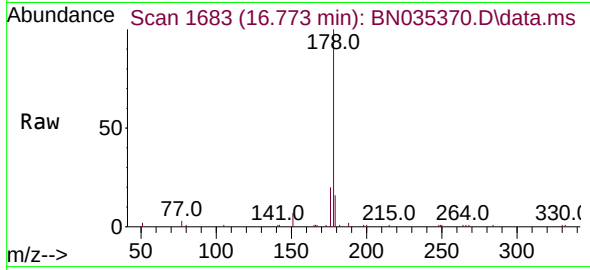
#25  
Phenanthrene  
Concen: 0.438 ng  
RT: 16.773 min Scan# 1683  
Delta R.T. 0.000 min  
Lab File: BN035370.D  
Acq: 28 Nov 2024 06:03

Instrument :  
BNA\_N  
ClientSampleId :  
PB165198BS

Tgt Ion:178 Resp: 1108  
Ion Ratio Lower Upper  
178 100  
176 19.4 15.4 23.2  
179 15.5 12.3 18.5

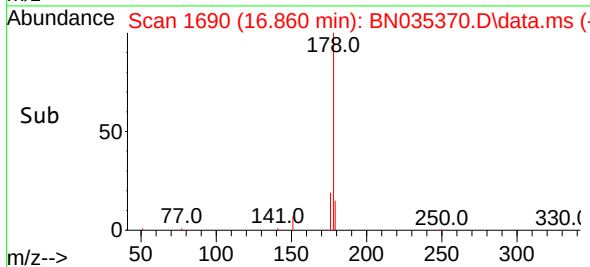
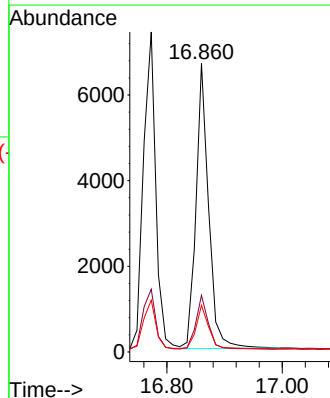
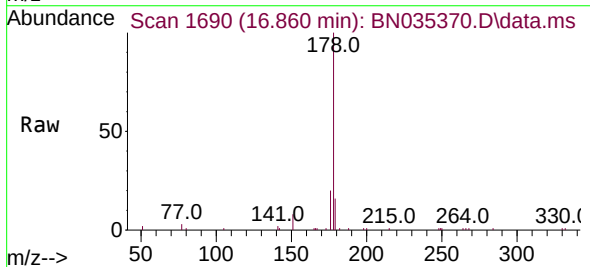
Manual Integrations  
**APPROVED**

Reviewed By :Yogesh Patel 11/29/2024  
Supervised By :mohammad ahmed 11/29/2024

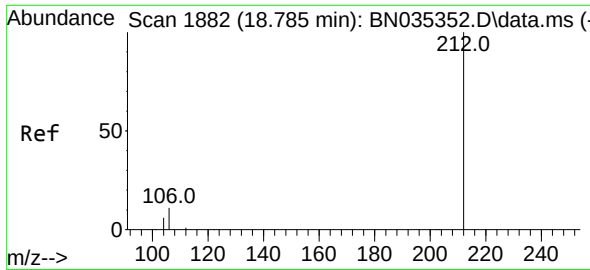


#26  
Anthracene  
Concen: 0.444 ng  
RT: 16.860 min Scan# 1690  
Delta R.T. 0.000 min  
Lab File: BN035370.D  
Acq: 28 Nov 2024 06:03

Tgt Ion:178 Resp: 10144  
Ion Ratio Lower Upper  
178 100  
176 18.8 15.0 22.6  
179 15.3 12.6 18.8







#27

Fluoranthene-d10

Concen: 0.459 ng

RT: 18.785 min Scan# 1882

Delta R.T. 0.000 min

Lab File: BN035370.D

Acq: 28 Nov 2024 06:03

Instrument :

BNA\_N

ClientSampleId :

PB165198BS

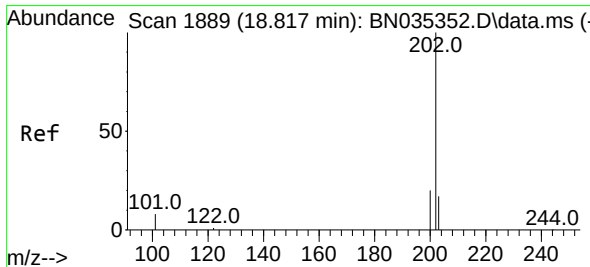
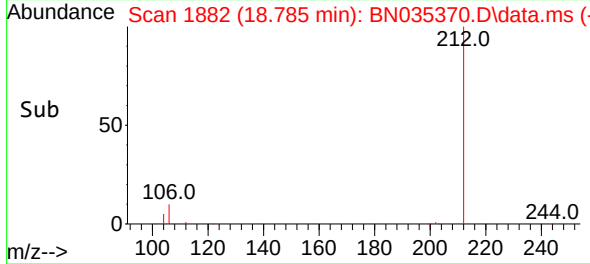
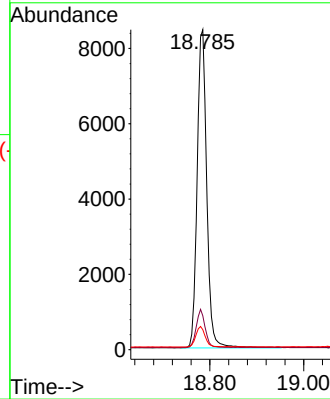
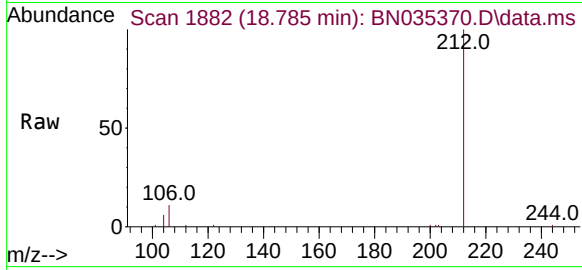
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 212   | Resp: | 11970 |
| Ion      | Ratio | Lower | Upper |
| 212      | 100   |       |       |
| 106      | 11.2  | 9.2   | 13.8  |
| 104      | 6.3   | 5.3   | 7.9   |

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 11/29/2024

Supervised By :mohammad ahmed 11/29/2024



#28

Fluoranthene

Concen: 0.402 ng

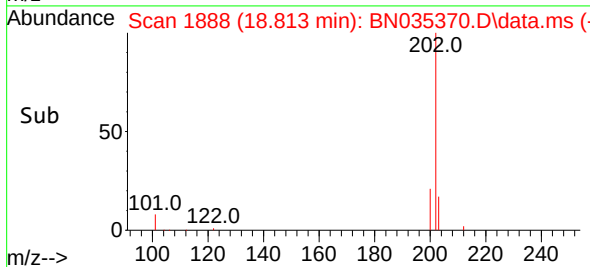
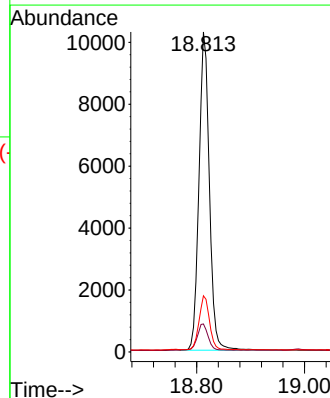
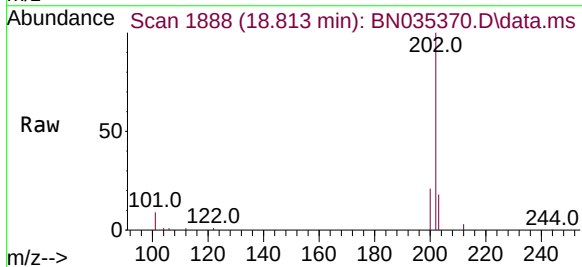
RT: 18.813 min Scan# 1888

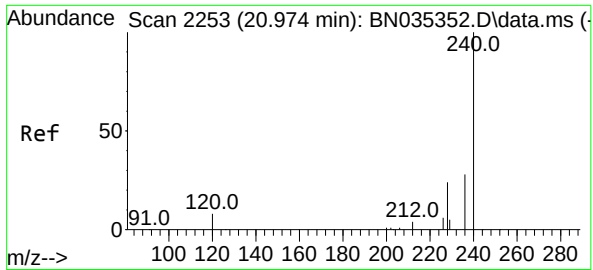
Delta R.T. -0.005 min

Lab File: BN035370.D

Acq: 28 Nov 2024 06:03

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 202   | Resp: | 13705 |
| Ion      | Ratio | Lower | Upper |
| 202      | 100   |       |       |
| 101      | 8.9   | 7.4   | 11.0  |
| 203      | 17.0  | 13.7  | 20.5  |





#29

Chrysene-d12

Concen: 0.400 ng

RT: 20.974 min Scan# 21

Delta R.T. 0.000 min

Lab File: BN035370.D

Acq: 28 Nov 2024 06:03

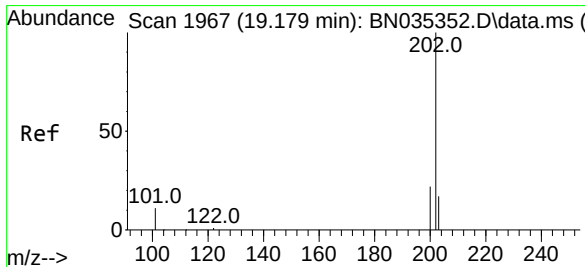
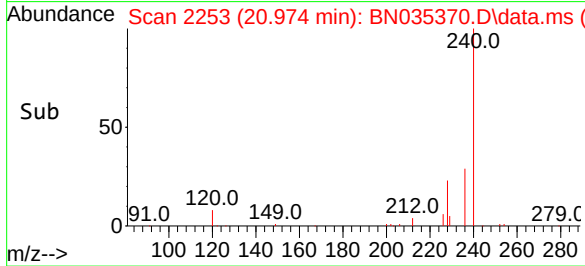
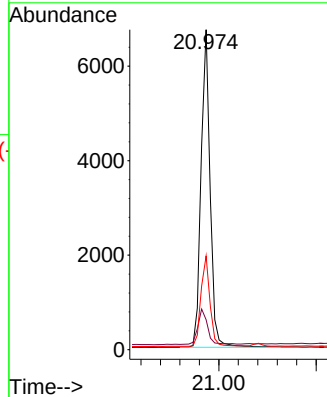
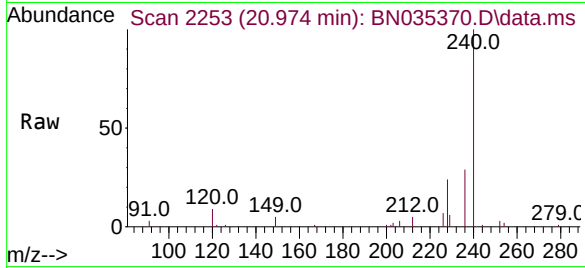
Instrument :

BNA\_N

ClientSampleId :

PB165198BS

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 240   | Resp: | 866   |
| Ion      | Ratio | Lower | Upper |
| 240      | 100   |       |       |
| 120      | 9.4   | 7.9   | 11.9  |
| 236      | 29.3  | 22.9  | 34.3  |

**Manual Integrations**  
**APPROVED**Reviewed By :Yogesh Patel 11/29/2024  
Supervised By :mohammad ahmed 11/29/2024

#30

Pyrene

Concen: 0.444 ng

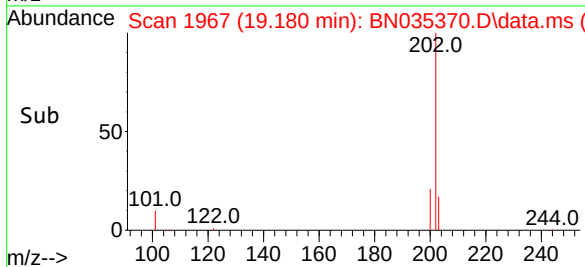
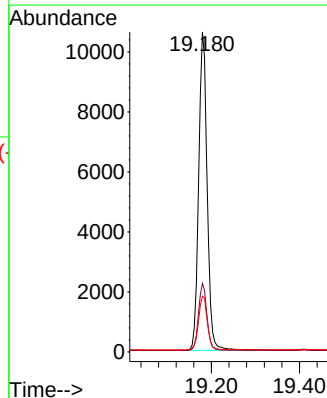
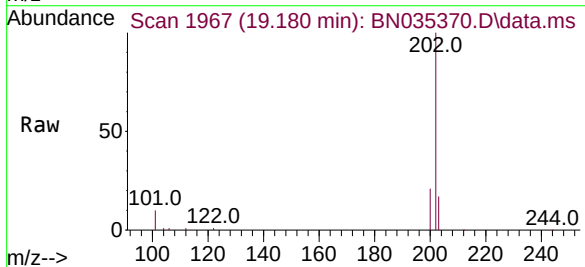
RT: 19.180 min Scan# 1967

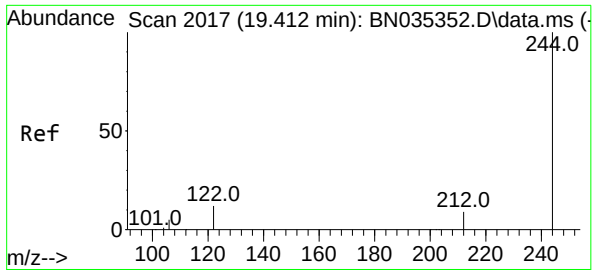
Delta R.T. 0.000 min

Lab File: BN035370.D

Acq: 28 Nov 2024 06:03

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 202   | Resp: | 14204 |
| Ion      | Ratio | Lower | Upper |
| 202      | 100   |       |       |
| 200      | 21.1  | 17.0  | 25.4  |
| 203      | 17.5  | 14.3  | 21.5  |





#31  
Terphenyl-d14  
Concen: 0.521 ng  
RT: 19.412 min Scan# 2017  
Delta R.T. 0.000 min  
Lab File: BN035370.D  
Acq: 28 Nov 2024 06:03

Instrument :

BNA\_N

ClientSampleId :

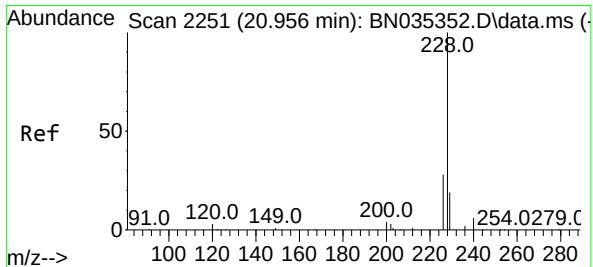
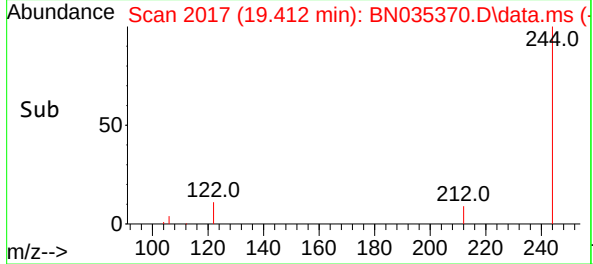
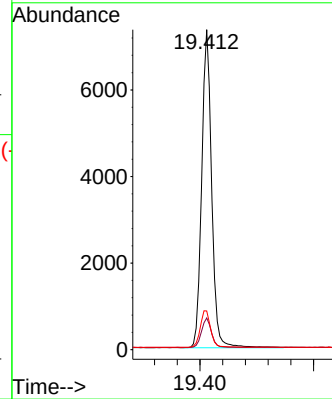
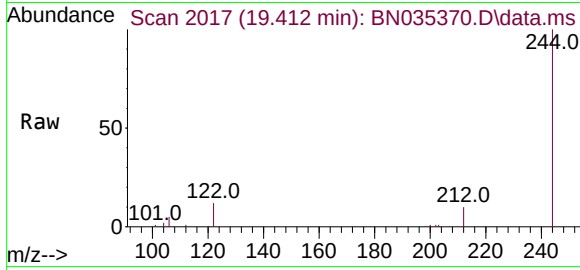
PB165198BS

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

Manual Integrations

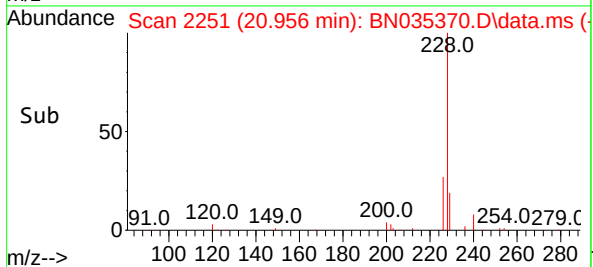
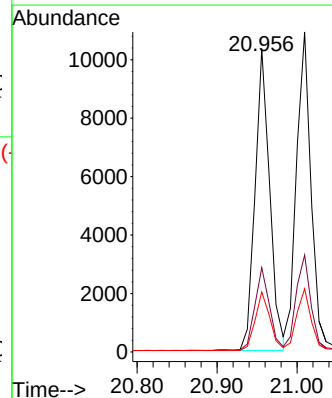
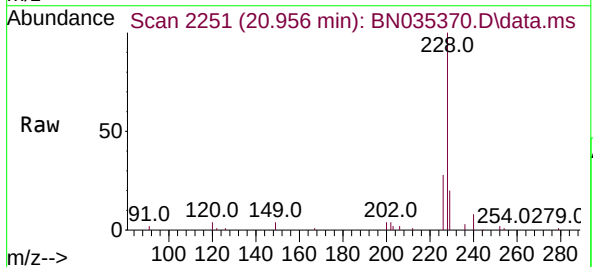
APPROVED

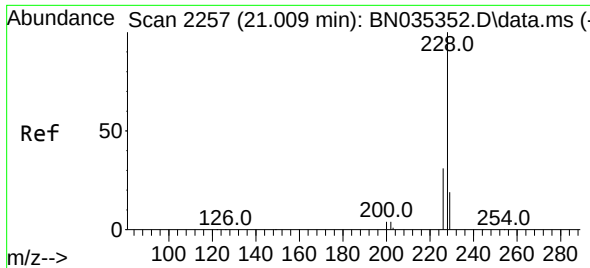
Reviewed By :Yogesh Patel 11/29/2024  
Supervised By :mohammad ahmed 11/29/2024



#32  
Benzo(a)anthracene  
Concen: 0.433 ng  
RT: 20.956 min Scan# 2251  
Delta R.T. 0.000 min  
Lab File: BN035370.D  
Acq: 28 Nov 2024 06:03

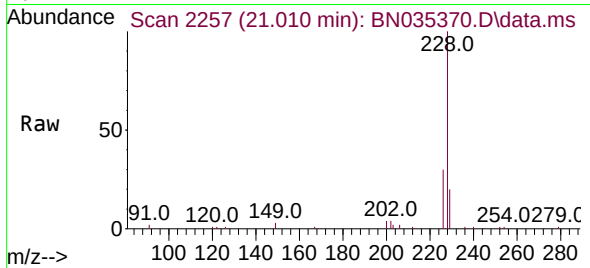
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 228     | 100   |       |       |
| 226     | 27.8  | 22.5  | 33.7  |
| 229     | 19.8  | 15.8  | 23.8  |





#33  
Chrysene  
Concen: 0.451 ng  
RT: 21.010 min Scan# 210  
Delta R.T. 0.000 min  
Lab File: BN035370.D  
Acq: 28 Nov 2024 06:03

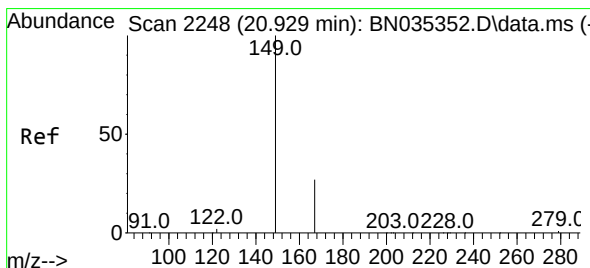
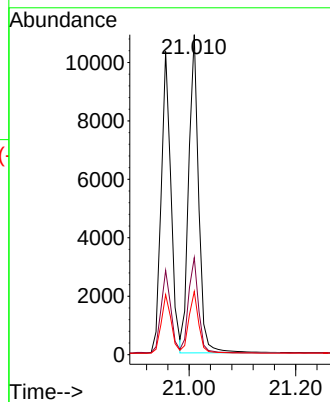
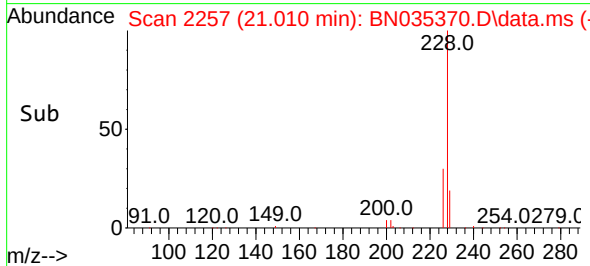
Instrument :  
BNA\_N  
ClientSampleId :  
PB165198BS



Tgt Ion:228 Resp: 1411  
Ion Ratio Lower Upper  
228 100  
226 30.3 24.6 37.0  
229 19.8 15.9 23.9

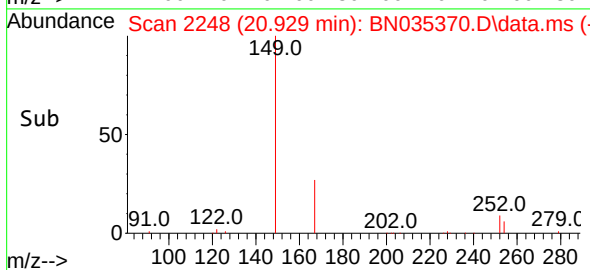
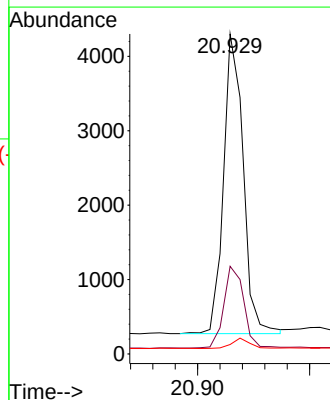
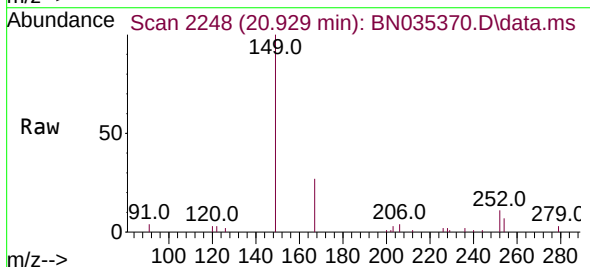
Manual Integrations  
**APPROVED**

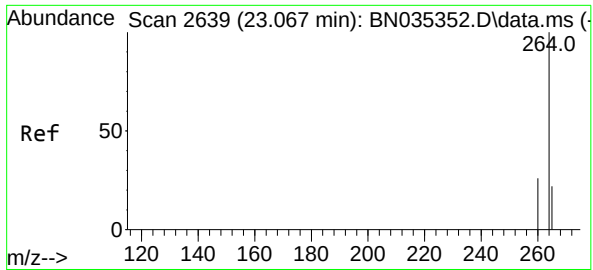
Reviewed By :Yogesh Patel 11/29/2024  
Supervised By :mohammad ahmed 11/29/2024



#34  
Bis(2-ethylhexyl)phthalate  
Concen: 0.410 ng  
RT: 20.929 min Scan# 2248  
Delta R.T. 0.000 min  
Lab File: BN035370.D  
Acq: 28 Nov 2024 06:03

Tgt Ion:149 Resp: 4912  
Ion Ratio Lower Upper  
149 100  
167 27.8 22.2 33.4  
279 3.2 2.7 4.1





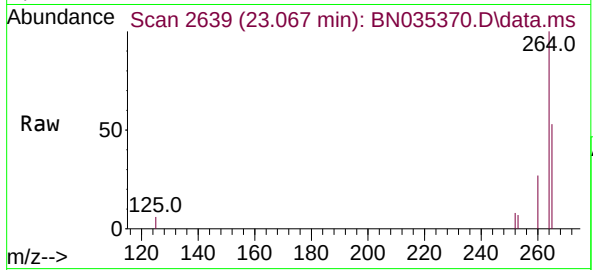
#35  
Perylene-d12  
Concen: 0.400 ng  
RT: 23.067 min Scan# 2639  
Delta R.T. 0.000 min  
Lab File: BN035370.D  
Acq: 28 Nov 2024 06:03

Instrument :

BNA\_N

ClientSampleId :

PB165198BS



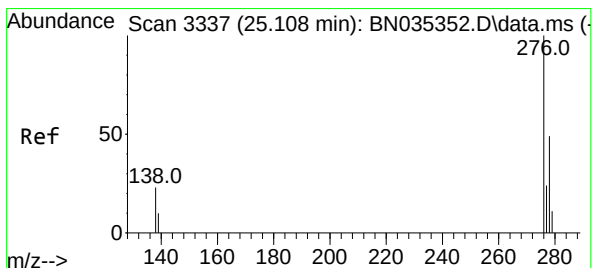
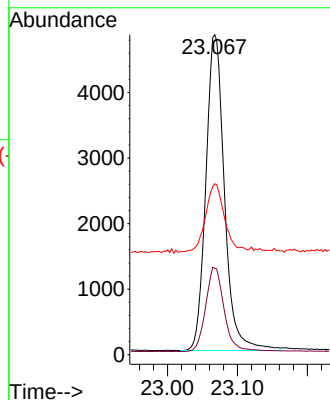
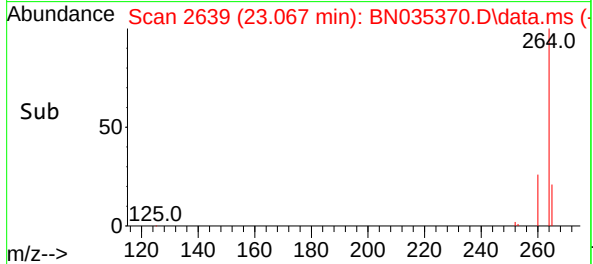
Tgt Ion:264 Resp: 8924  
Ion Ratio Lower Upper  
264 100  
260 27.0 21.4 32.2  
265 53.4 40.2 60.4

Manual Integrations

APPROVED

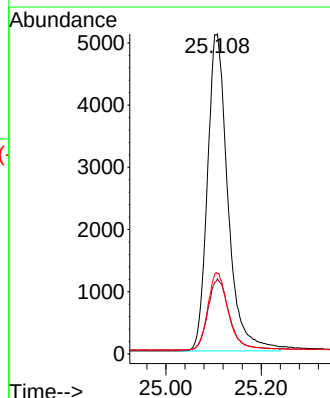
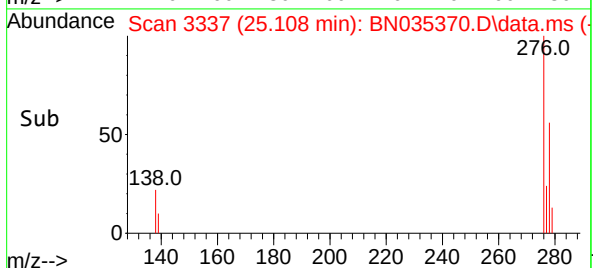
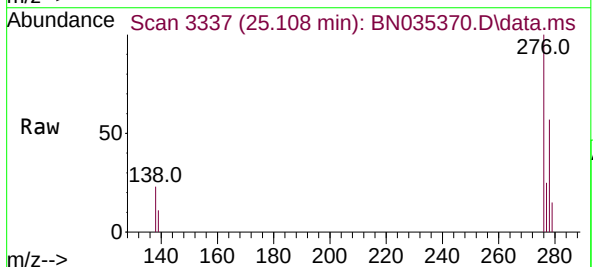
Reviewed By :Yogesh Patel 11/29/2024

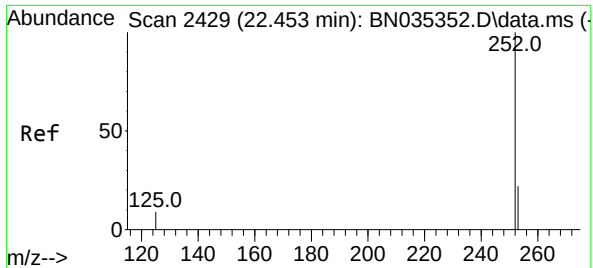
Supervised By :mohammad ahmed 11/29/2024



#36  
Indeno(1,2,3-cd)pyrene  
Concen: 0.436 ng  
RT: 25.108 min Scan# 3337  
Delta R.T. 0.000 min  
Lab File: BN035370.D  
Acq: 28 Nov 2024 06:03

Tgt Ion:276 Resp: 15213  
Ion Ratio Lower Upper  
276 100  
138 23.1 19.4 29.0  
277 24.6 19.8 29.6





#37

Benzo(b)fluoranthene

Concen: 0.491 ng

RT: 22.453 min Scan# 2429

Delta R.T. 0.000 min

Lab File: BN035370.D

Acq: 28 Nov 2024 06:03

Instrument :

BNA\_N

ClientSampleId :

PB165198BS

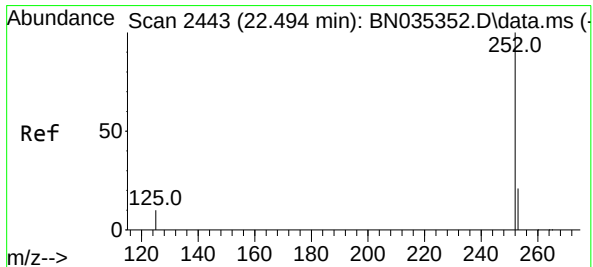
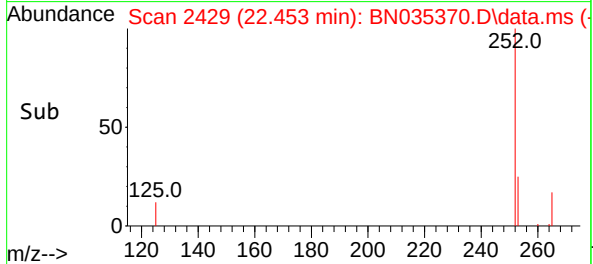
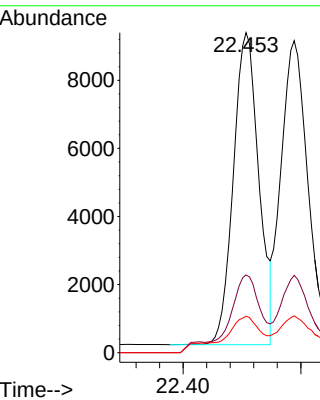
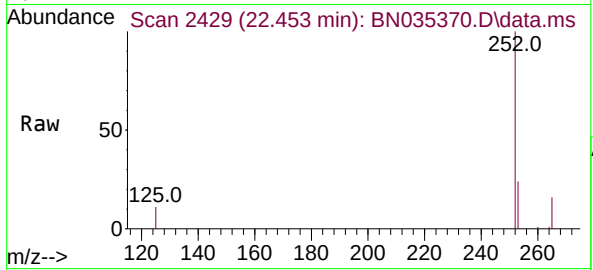
|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 252   | Resp: | 16020 |
| Ion Ratio | Lower | Upper |       |
| 252       | 100   |       |       |
| 253       | 24.3  | 19.6  | 29.4  |
| 125       | 11.4  | 9.6   | 14.4  |

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 11/29/2024

Supervised By :mohammad ahmed 11/29/2024



#38

Benzo(k)fluoranthene

Concen: 0.450 ng

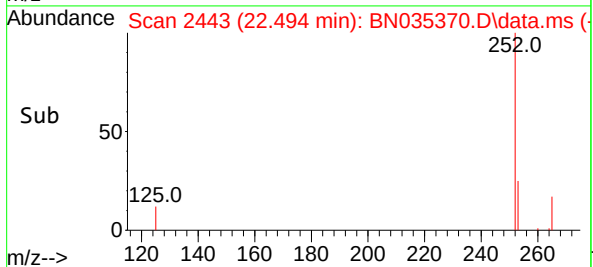
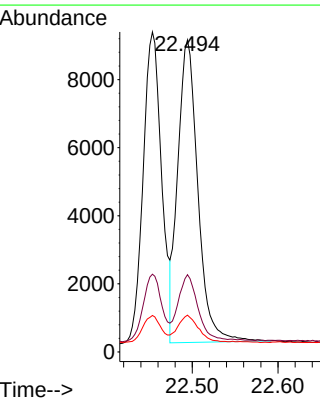
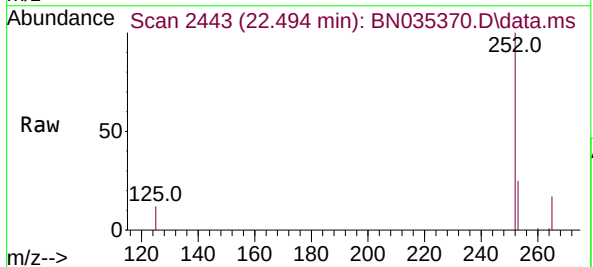
RT: 22.494 min Scan# 2443

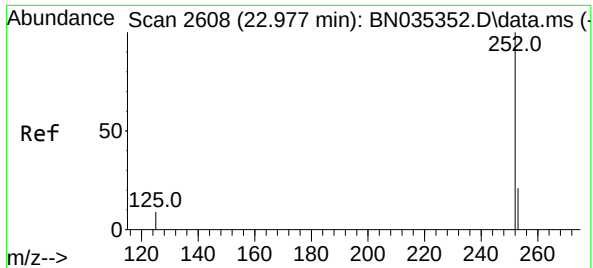
Delta R.T. 0.000 min

Lab File: BN035370.D

Acq: 28 Nov 2024 06:03

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 252   | Resp: | 14448 |
| Ion Ratio | Lower | Upper |       |
| 252       | 100   |       |       |
| 253       | 24.8  | 19.5  | 29.3  |
| 125       | 11.8  | 10.2  | 15.4  |





#39

Benzo(a)pyrene

Concen: 0.462 ng

RT: 22.977 min Scan# 2608

Delta R.T. 0.000 min

Lab File: BN035370.D

Acq: 28 Nov 2024 06:03

Instrument :

BNA\_N

ClientSampleId :

PB165198BS

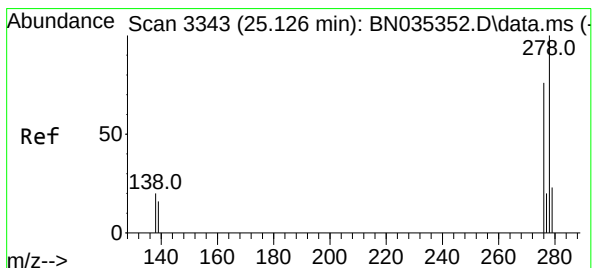
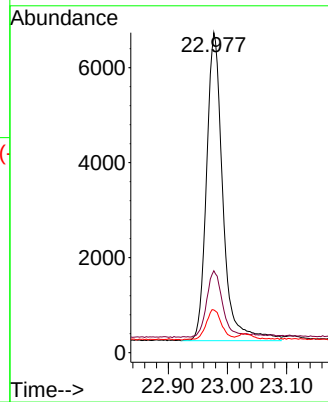
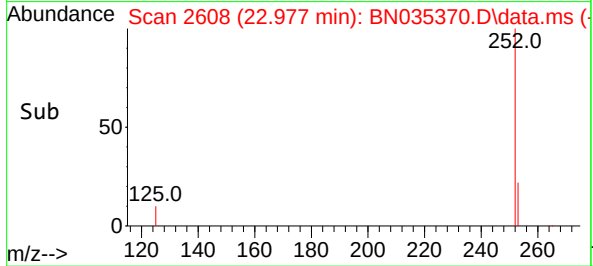
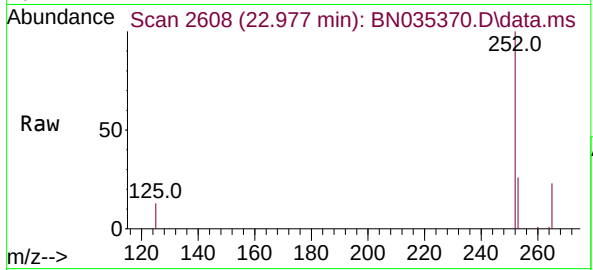
|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 252   | Resp: | 12434 |
| Ion Ratio | Lower | Upper |       |
| 252       | 100   |       |       |
| 253       | 25.6  | 20.2  | 30.4  |
| 125       | 13.4  | 10.9  | 16.3  |

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 11/29/2024

Supervised By :mohammad ahmed 11/29/2024



#40

Dibenzo(a,h)anthracene

Concen: 0.433 ng

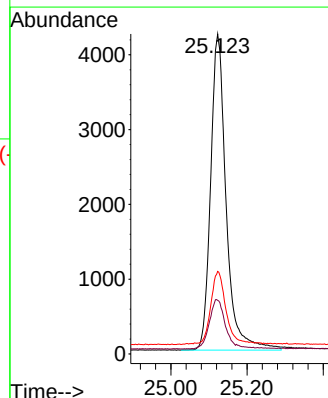
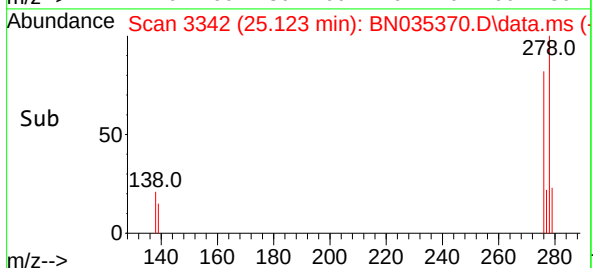
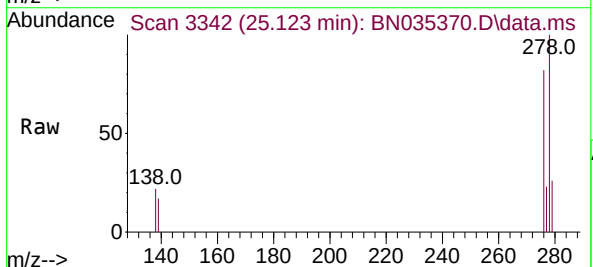
RT: 25.123 min Scan# 3342

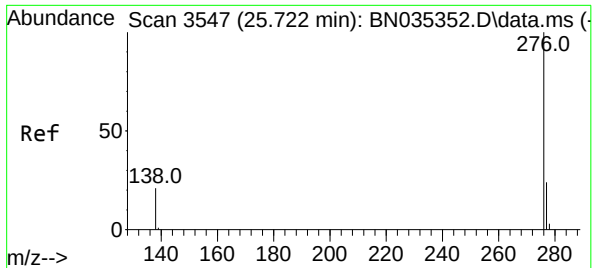
Delta R.T. -0.003 min

Lab File: BN035370.D

Acq: 28 Nov 2024 06:03

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 278   | Resp: | 11913 |
| Ion Ratio | Lower | Upper |       |
| 278       | 100   |       |       |
| 139       | 16.8  | 14.2  | 21.4  |
| 279       | 25.8  | 20.5  | 30.7  |





#41

Benzo(g,h,i)perylene

Concen: 0.402 ng

RT: 25.719 min Scan# 31

Delta R.T. -0.003 min

Lab File: BN035370.D

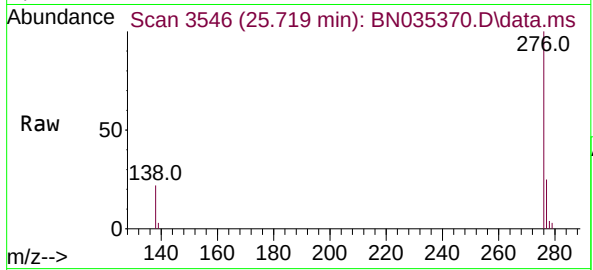
Acq: 28 Nov 2024 06:03

Instrument :

BNA\_N

ClientSampleId :

PB165198BS



Tgt Ion:276 Resp: 11550

Ion Ratio Lower Upper

276 100

277 24.7 19.9 29.9

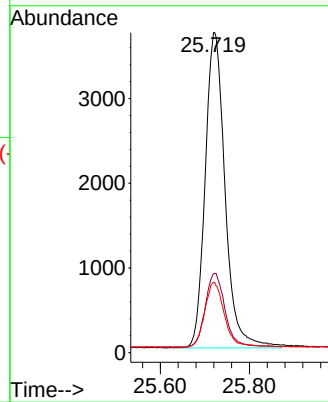
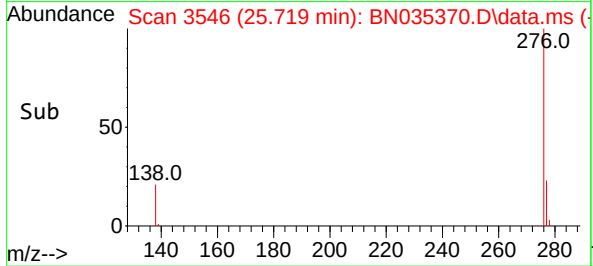
138 22.0 17.8 26.8

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 11/29/2024

Supervised By :mohammad ahmed 11/29/2024





## Report of Analysis

|                    |                      |                 |                |
|--------------------|----------------------|-----------------|----------------|
| Client:            | Tetra Tech NUS, Inc. | Date Collected: |                |
| Project:           | CTO WE13             | Date Received:  |                |
| Client Sample ID:  | PB165198BSD          | SDG No.:        | P4959          |
| Lab Sample ID:     | PB165198BSD          | Matrix:         | Water          |
| Analytical Method: | SW8270SIM            | % 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 :      | SW3510C              |                 |                |

|                   |           |                |                |               |
|-------------------|-----------|----------------|----------------|---------------|
| File ID/Qc Batch: | Dilution: | Prep Date      | Date Analyzed  | Prep Batch ID |
| BN035371.D        | 1         | 11/22/24 12:25 | 11/28/24 06:39 | PB165198      |

| CAS Number                | Parameter               | Conc. | Qualifier | MDL      | LOD  | LOQ / CRQL | Units    |
|---------------------------|-------------------------|-------|-----------|----------|------|------------|----------|
| <b>TARGETS</b>            |                         |       |           |          |      |            |          |
| 123-91-1                  | 1,4-Dioxane             | 0.35  |           | 0.070    | 0.20 | 0.20       | ug/L     |
| <b>SURROGATES</b>         |                         |       |           |          |      |            |          |
| 7297-45-2                 | 2-Methylnaphthalene-d10 | 0.51  |           | 30 - 150 |      | 127%       | SPK: 0.4 |
| 93951-69-0                | Fluoranthene-d10        | 0.40  |           | 30 - 150 |      | 99%        | SPK: 0.4 |
| 4165-60-0                 | Nitrobenzene-d5         | 0.41  |           | 55 - 111 |      | 103%       | SPK: 0.4 |
| 321-60-8                  | 2-Fluorobiphenyl        | 0.42  |           | 53 - 106 |      | 104%       | SPK: 0.4 |
| 1718-51-0                 | Terphenyl-d14           | 0.45  |           | 58 - 132 |      | 113%       | SPK: 0.4 |
| <b>INTERNAL STANDARDS</b> |                         |       |           |          |      |            |          |
| 3855-82-1                 | 1,4-Dichlorobenzene-d4  | 2380  | 7.308     |          |      |            |          |
| 1146-65-2                 | Naphthalene-d8          | 5720  | 10.052    |          |      |            |          |
| 15067-26-2                | Acenaphthene-d10        | 3810  | 13.967    |          |      |            |          |
| 1517-22-2                 | Phenanthrene-d10        | 9570  | 16.735    |          |      |            |          |
| 1719-03-5                 | Chrysene-d12            | 8950  | 20.974    |          |      |            |          |
| 1520-96-3                 | Perylene-d12            | 9280  | 23.07     |          |      |            |          |

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\BN112724\  
 Data File : BN035371.D  
 Acq On : 28 Nov 2024 06:39  
 Operator : RC/JU  
 Sample : PB165198BSD  
 Misc :  
 ALS Vial : 25 Sample Multiplier: 1

Instrument :  
 BNA\_N  
 ClientSampleId :  
 PB165198BSD

Manual Integrations  
**APPROVED**

Reviewed By :Yogesh Patel 11/29/2024  
 Supervised By :mohammad ahmed 11/29/2024

Quant Time: Nov 28 07:04:26 2024  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\8270-SIM-BN112724.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Wed Nov 27 23:03:24 2024  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc  | Units | Dev(Min) |
|-------------------------------|--------|------|----------|-------|-------|----------|
| -----                         |        |      |          |       |       |          |
| Internal Standards            |        |      |          |       |       |          |
| 1) 1,4-Dichlorobenzene-d4     | 7.308  | 152  | 2376     | 0.400 | ng    | 0.00     |
| 7) Naphthalene-d8             | 10.052 | 136  | 5724     | 0.400 | ng    | 0.00     |
| 13) Acenaphthene-d10          | 13.967 | 164  | 3806     | 0.400 | ng    | 0.00     |
| 19) Phenanthrene-d10          | 16.735 | 188  | 9566     | 0.400 | ng    | 0.00     |
| 29) Chrysene-d12              | 20.974 | 240  | 8948     | 0.400 | ng    | 0.00     |
| 35) Perylene-d12              | 23.070 | 264  | 9280     | 0.400 | ng    | 0.00     |
|                               |        |      |          |       |       |          |
| System Monitoring Compounds   |        |      |          |       |       |          |
| 4) 2-Fluorophenol             | 4.968  | 112  | 2117     | 0.356 | ng    | 0.00     |
| 5) Phenol-d6                  | 6.513  | 99   | 2409     | 0.337 | ng    | 0.00     |
| 8) Nitrobenzene-d5            | 8.440  | 82   | 1446m    | 0.414 | ng    | 0.00     |
| 11) 2-Methylnaphthalene-d10   | 11.656 | 152  | 4544     | 0.507 | ng    | 0.00     |
| 14) 2,4,6-Tribromophenol      | 15.475 | 330  | 658      | 0.244 | ng    | 0.00     |
| 15) 2-Fluorobiphenyl          | 12.574 | 172  | 6011     | 0.418 | ng    | 0.00     |
| 27) Fluoranthene-d10          | 18.784 | 212  | 10713    | 0.395 | ng    | 0.00     |
| 31) Terphenyl-d14             | 19.412 | 244  | 7957     | 0.451 | ng    | 0.00     |
|                               |        |      |          |       |       |          |
| Target Compounds              |        |      |          |       |       | Qvalue   |
| 2) 1,4-Dioxane                | 2.996  | 88   | 783      | 0.345 | ng    | # 72     |
| 3) n-Nitrosodimethylamine     | 3.292  | 42   | 727      | 0.384 | ng    | # 97     |
| 6) bis(2-Chloroethyl)ether    | 6.759  | 93   | 2213     | 0.368 | ng    | 99       |
| 9) Naphthalene                | 10.105 | 128  | 5692     | 0.377 | ng    | 99       |
| 10) Hexachlorobutadiene       | 10.404 | 225  | 1371     | 0.394 | ng    | # 100    |
| 12) 2-Methylnaphthalene       | 11.732 | 142  | 3934     | 0.364 | ng    | 99       |
| 16) Acenaphthylene            | 13.678 | 152  | 6299     | 0.394 | ng    | 100      |
| 17) Acenaphthene              | 14.031 | 154  | 4018     | 0.379 | ng    | 99       |
| 18) Fluorene                  | 15.026 | 166  | 5740     | 0.378 | ng    | 98       |
| 20) 4,6-Dinitro-2-methylph... | 15.132 | 198  | 344      | 0.366 | ng    | 96       |
| 21) 4-Bromophenyl-phenylether | 15.941 | 248  | 2102     | 0.376 | ng    | 97       |
| 22) Hexachlorobenzene         | 16.040 | 284  | 2466     | 0.375 | ng    | 99       |
| 23) Atrazine                  | 16.227 | 200  | 1420     | 0.357 | ng    | 97       |
| 24) Pentachlorophenol         | 16.400 | 266  | 828      | 0.290 | ng    | # 84     |
| 25) Phenanthrene              | 16.773 | 178  | 10055    | 0.383 | ng    | 100      |
| 26) Anthracene                | 16.860 | 178  | 9171     | 0.386 | ng    | 100      |
| 28) Fluoranthene              | 18.812 | 202  | 12304    | 0.347 | ng    | 100      |
| 30) Pyrene                    | 19.179 | 202  | 12695    | 0.384 | ng    | 100      |
| 32) Benzo(a)anthracene        | 20.956 | 228  | 11626    | 0.371 | ng    | 100      |
| 33) Chrysene                  | 21.009 | 228  | 12682    | 0.393 | ng    | 100      |
| 34) Bis(2-ethylhexyl)phtha... | 20.929 | 149  | 4303     | 0.348 | ng    | 100      |
| 36) Indeno(1,2,3-cd)pyrene    | 25.108 | 276  | 14123    | 0.389 | ng    | 99       |
| 37) Benzo(b)fluoranthene      | 22.456 | 252  | 12457    | 0.367 | ng    | 99       |
| 38) Benzo(k)fluoranthene      | 22.497 | 252  | 13182    | 0.394 | ng    | 99       |
| 39) Benzo(a)pyrene            | 22.980 | 252  | 11277    | 0.403 | ng    | 99       |
| 40) Dibenzo(a,h)anthracene    | 25.128 | 278  | 10990    | 0.384 | ng    | 99       |
| 41) Benzo(g,h,i)perylene      | 25.725 | 276  | 10607    | 0.355 | ng    | 99       |
| -----                         |        |      |          |       |       |          |

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

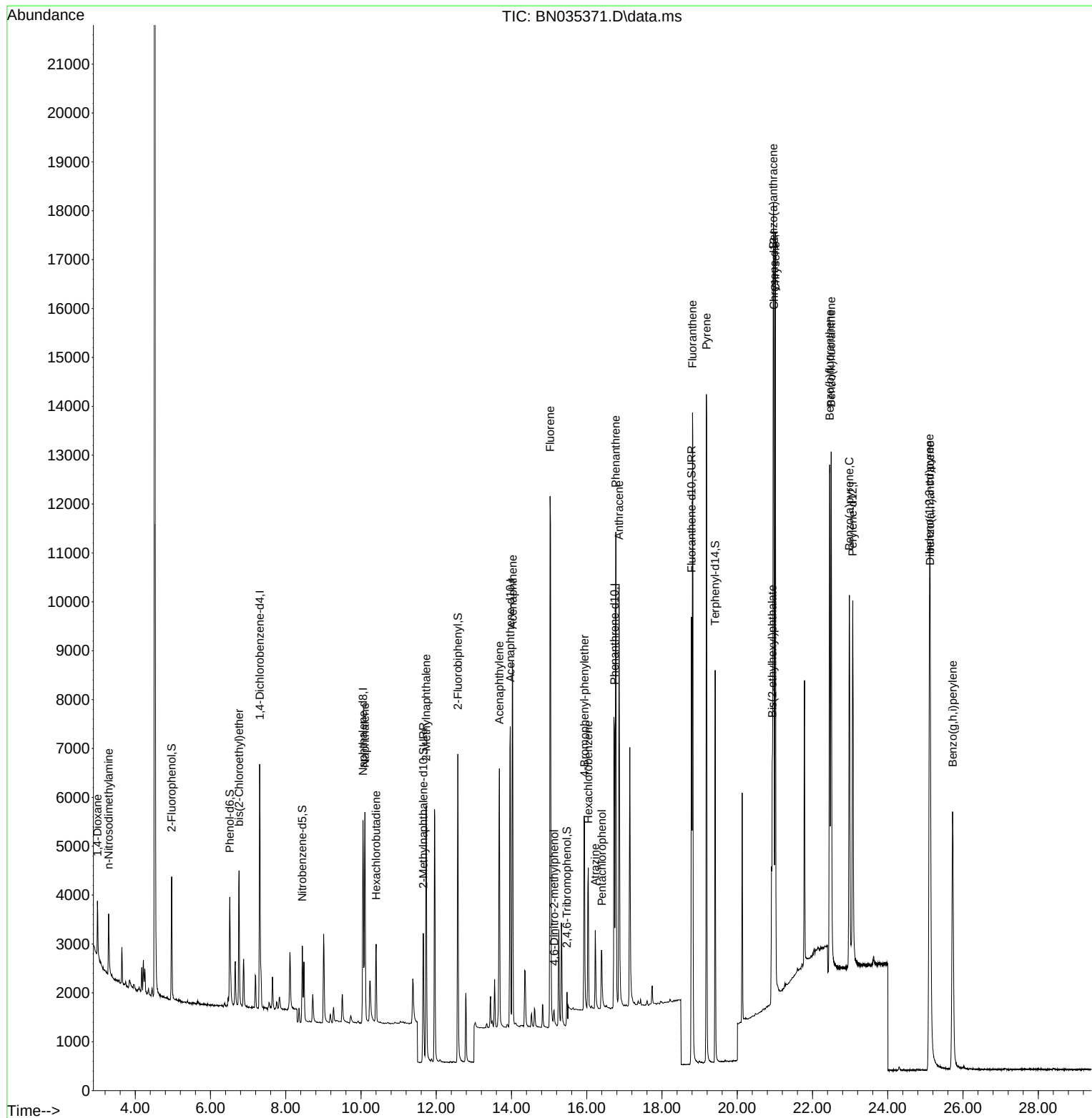
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 Data File : BN035371.D  
 Acq On : 28 Nov 2024 06:39  
 Operator : RC/JU  
 Sample : PB165198BSD  
 Misc :  
 ALS Vial : 25 Sample Multiplier: 1

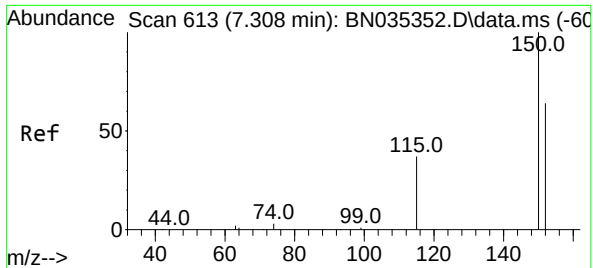
Instrument :  
 BNA\_N  
 ClientSampleId :  
 PB165198BSD

### Manual Integrations APPROVED

Reviewed By :Yogesh Patel 11/29/2024  
 Supervised By :mohammad ahmed 11/29/2024

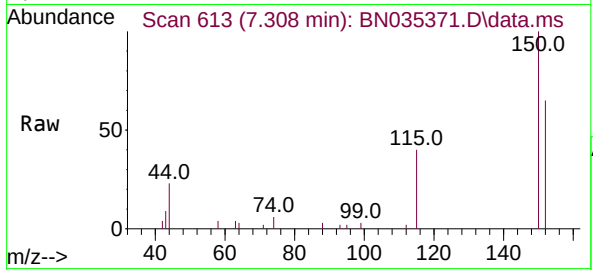
Quant Time: Nov 28 07:04:26 2024  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\8270-SIM-BN112724.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Wed Nov 27 23:03:24 2024  
 Response via : Initial Calibration





#1  
1,4-Dichlorobenzene-d4  
Concen: 0.400 ng  
RT: 7.308 min Scan# 61  
Delta R.T. -0.000 min  
Lab File: BN035371.D  
Acq: 28 Nov 2024 06:39

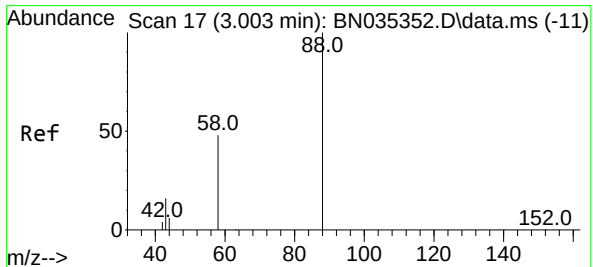
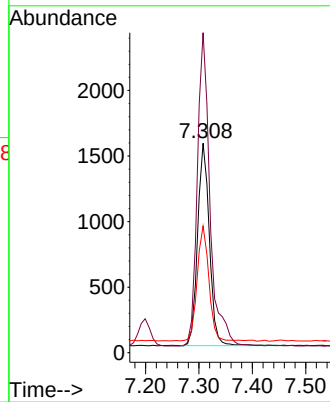
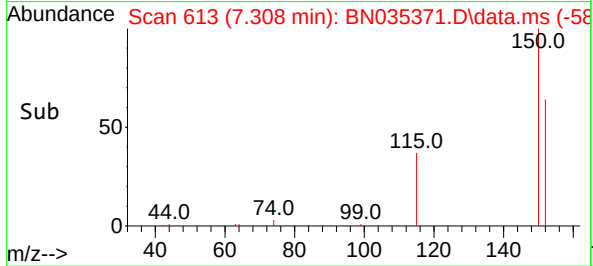
Instrument :  
BNA\_N  
ClientSampleId :  
PB165198BSD



Tgt Ion:152 Resp: 2370  
Ion Ratio Lower Upper  
152 100  
150 152.8 124.0 186.0  
115 60.4 49.6 74.4

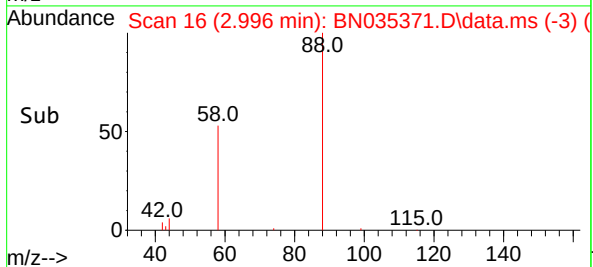
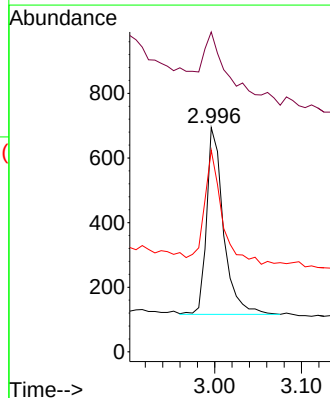
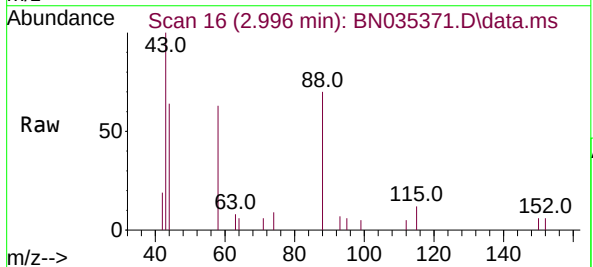
Manual Integrations  
APPROVED

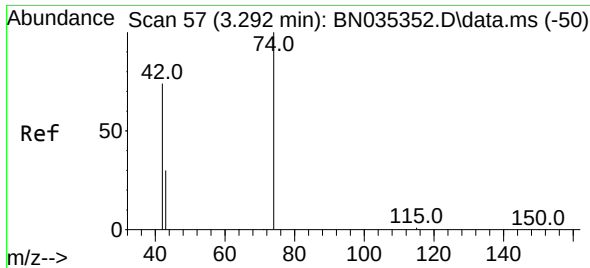
Reviewed By :Yogesh Patel 11/29/2024  
Supervised By :mohammad ahmed 11/29/2024



#2  
1,4-Dioxane  
Concen: 0.345 ng  
RT: 2.996 min Scan# 16  
Delta R.T. -0.007 min  
Lab File: BN035371.D  
Acq: 28 Nov 2024 06:39

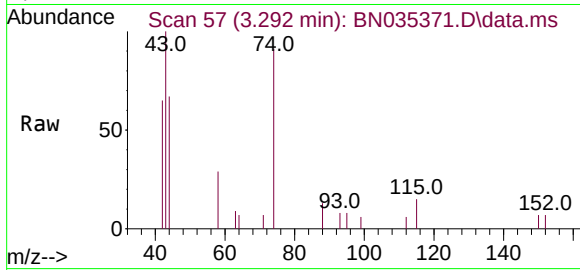
Tgt Ion: 88 Resp: 783  
Ion Ratio Lower Upper  
88 100  
43 58.7 17.2 25.8#  
58 62.1 44.5 66.7





#3  
n-Nitrosodimethylamine  
Concen: 0.384 ng  
RT: 3.292 min Scan# 57  
Delta R.T. -0.000 min  
Lab File: BN035371.D  
Acq: 28 Nov 2024 06:39

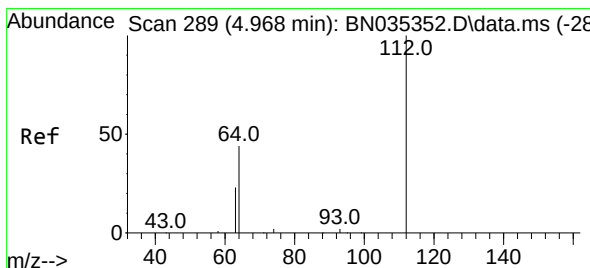
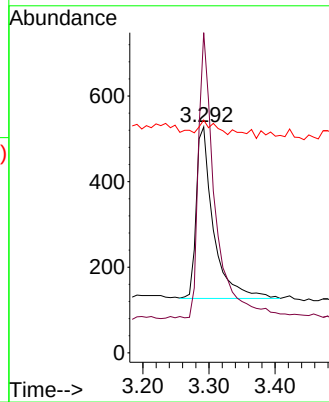
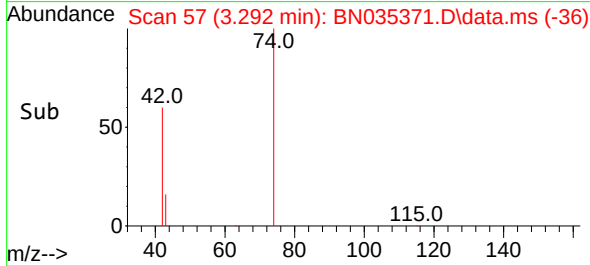
Instrument :  
BNA\_N  
ClientSampleId :  
PB165198BSD



Tgt Ion: 42 Resp: 72  
Ion Ratio Lower Upper  
42 100  
74 159.8 124.9 187.3  
44 7.0 2.2 3.4

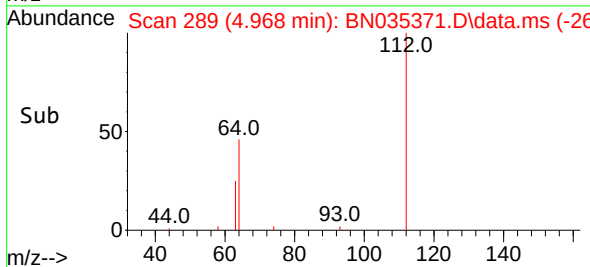
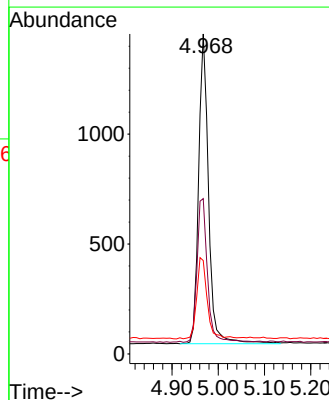
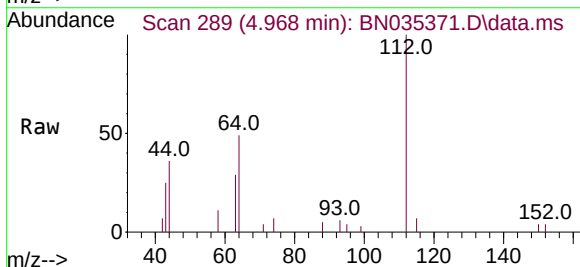
Manual Integrations  
**APPROVED**

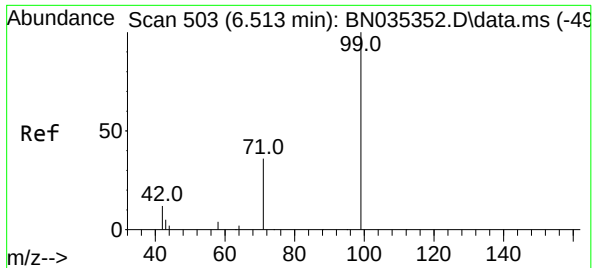
Reviewed By :Yogesh Patel 11/29/2024  
Supervised By :mohammad ahmed 11/29/2024



#4  
2-Fluorophenol  
Concen: 0.356 ng  
RT: 4.968 min Scan# 289  
Delta R.T. -0.000 min  
Lab File: BN035371.D  
Acq: 28 Nov 2024 06:39

Tgt Ion:112 Resp: 2117  
Ion Ratio Lower Upper  
112 100  
64 48.9 39.8 59.8  
63 27.9 21.0 31.6





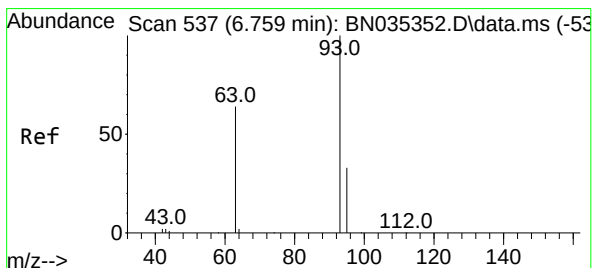
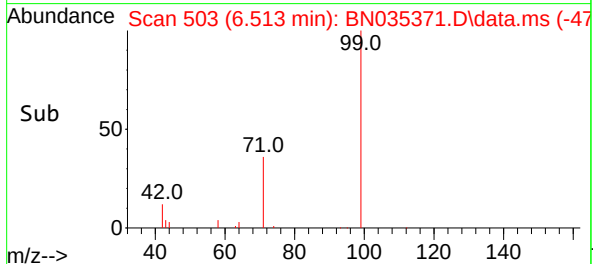
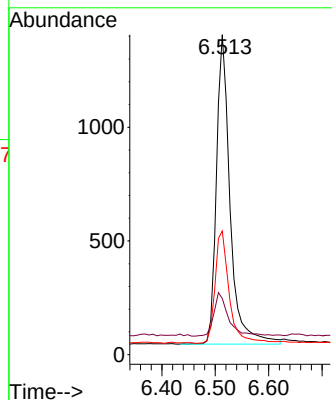
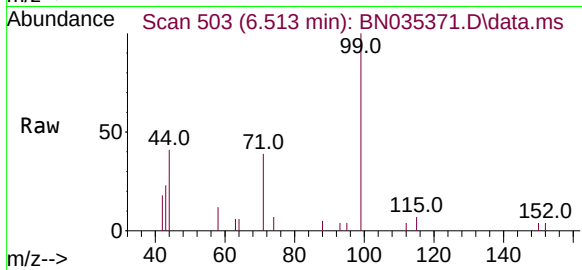
#5  
Phenol-d6  
Concen: 0.337 ng  
RT: 6.513 min Scan# 503  
Delta R.T. -0.000 min  
Lab File: BN035371.D  
Acq: 28 Nov 2024 06:39

Instrument :  
BNA\_N  
ClientSampleId :  
PB165198BSD

Tgt Ion: 99 Resp: 2409  
Ion Ratio Lower Upper  
99 100  
42 15.1 11.4 17.2  
71 37.7 29.3 43.9

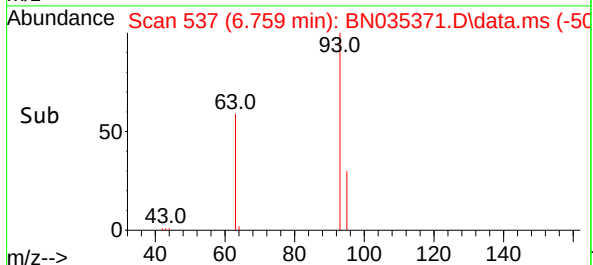
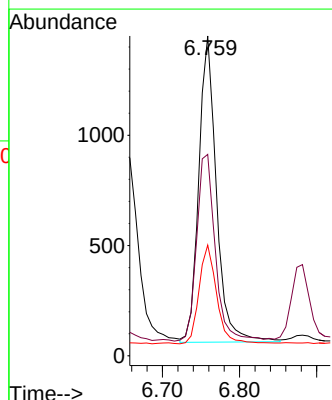
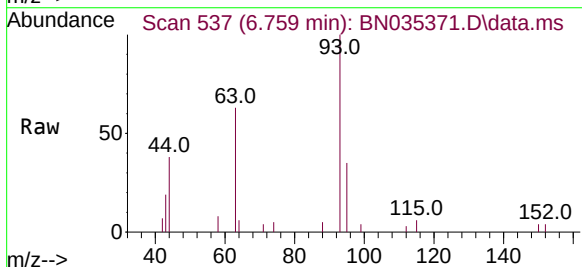
Manual Integrations  
**APPROVED**

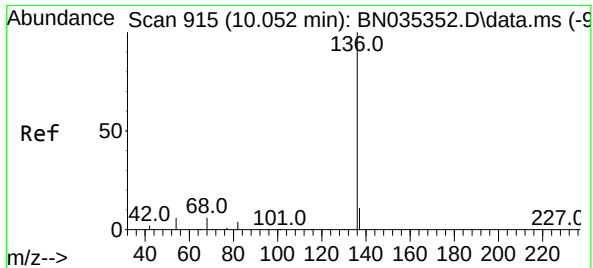
Reviewed By :Yogesh Patel 11/29/2024  
Supervised By :mohammad ahmed 11/29/2024



#6  
bis(2-Chloroethyl)ether  
Concen: 0.368 ng  
RT: 6.759 min Scan# 537  
Delta R.T. -0.000 min  
Lab File: BN035371.D  
Acq: 28 Nov 2024 06:39

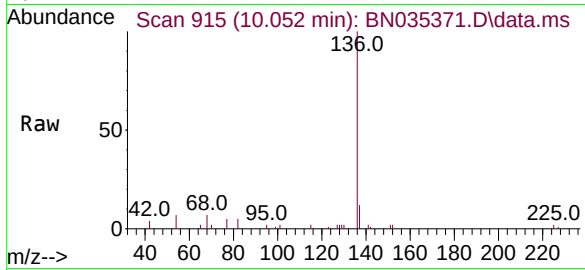
Tgt Ion: 93 Resp: 2213  
Ion Ratio Lower Upper  
93 100  
63 64.2 50.4 75.6  
95 32.2 25.7 38.5





#7  
Naphthalene-d8  
Concen: 0.400 ng  
RT: 10.052 min Scan# 915  
Delta R.T. -0.000 min  
Lab File: BN035371.D  
Acq: 28 Nov 2024 06:39

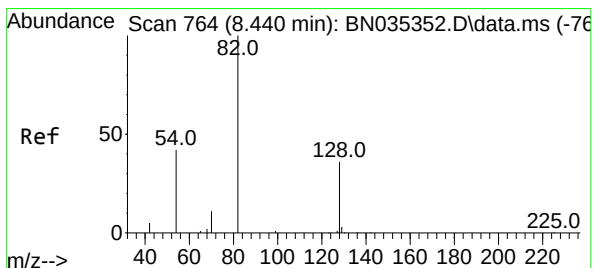
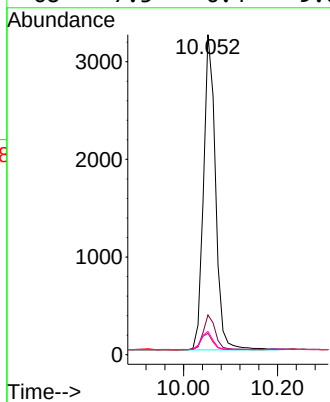
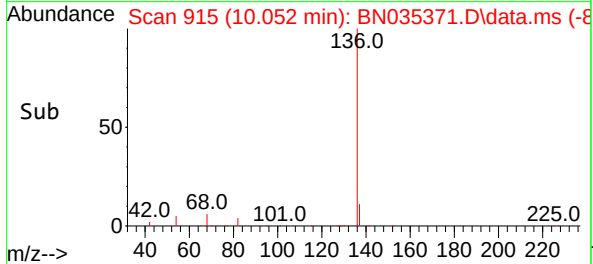
Instrument :  
BNA\_N  
ClientSampleId :  
PB165198BSD



Tgt Ion: 136 Resp: 5724  
Ion Ratio Lower Upper  
136 100  
137 12.4 10.2 15.2  
54 6.7 6.1 9.1  
68 7.3 6.4 9.6

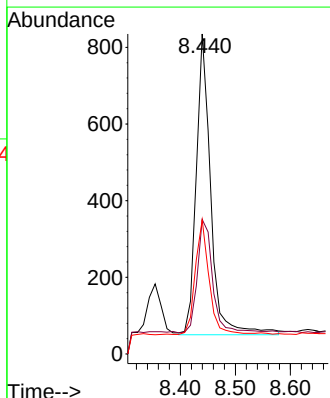
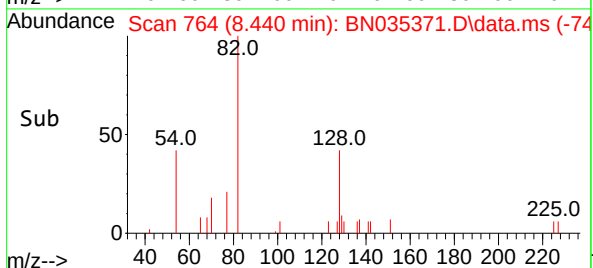
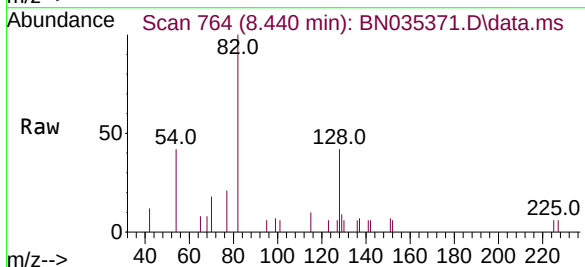
Manual Integrations  
**APPROVED**

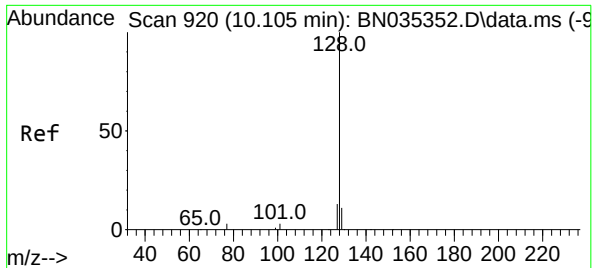
Reviewed By :Yogesh Patel 11/29/2024  
Supervised By :mohammad ahmed 11/29/2024



#8  
Nitrobenzene-d5  
Concen: 0.414 ng m  
RT: 8.440 min Scan# 764  
Delta R.T. -0.000 min  
Lab File: BN035371.D  
Acq: 28 Nov 2024 06:39

Tgt Ion: 82 Resp: 1446  
Ion Ratio Lower Upper  
82 100  
128 42.0 33.4 50.0  
54 41.9 36.7 55.1





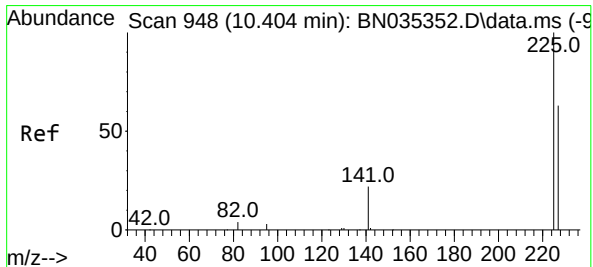
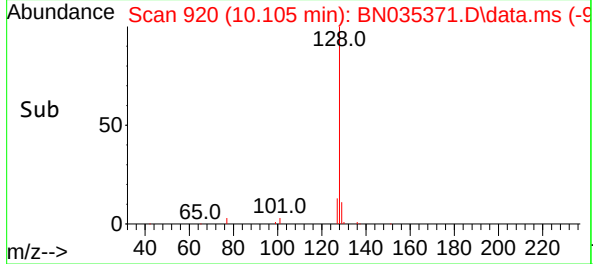
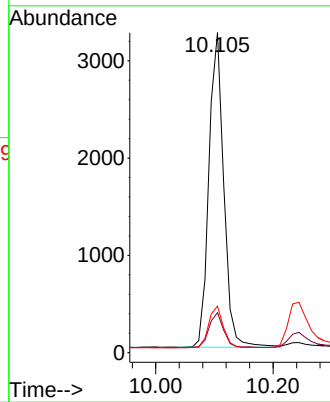
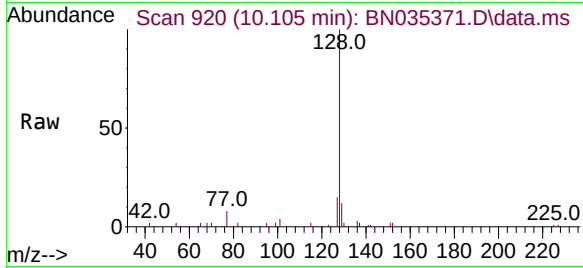
#9  
Naphthalene  
Concen: 0.377 ng  
RT: 10.105 min Scan# 912  
Delta R.T. -0.000 min  
Lab File: BN035371.D  
Acq: 28 Nov 2024 06:39

Instrument :  
BNA\_N  
ClientSampleId :  
PB165198BSD

Tgt Ion:128 Resp: 5692  
Ion Ratio Lower Upper  
128 100  
129 12.5 9.8 14.6  
127 14.5 11.4 17.2

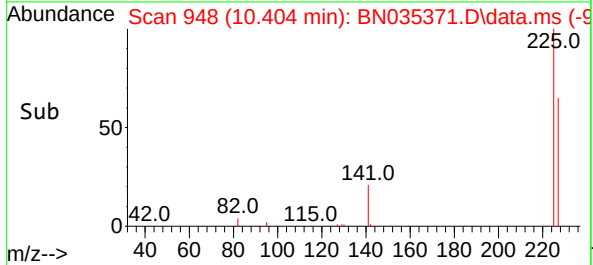
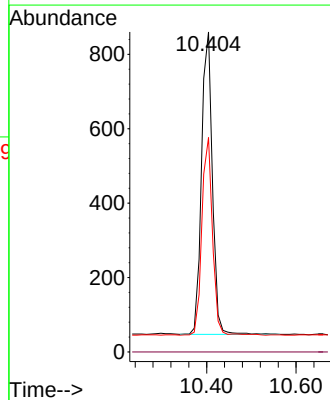
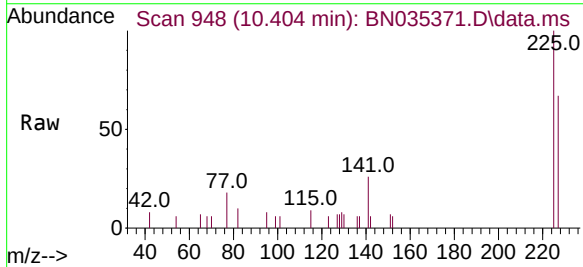
Manual Integrations  
**APPROVED**

Reviewed By :Yogesh Patel 11/29/2024  
Supervised By :mohammad ahmed 11/29/2024

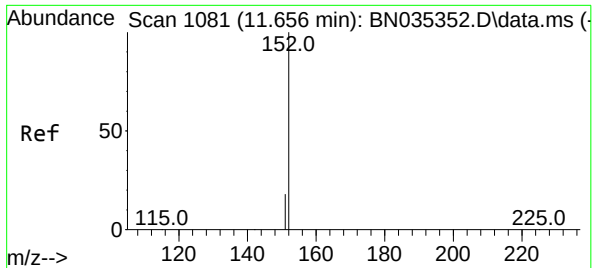


#10  
Hexachlorobutadiene  
Concen: 0.394 ng  
RT: 10.404 min Scan# 948  
Delta R.T. -0.000 min  
Lab File: BN035371.D  
Acq: 28 Nov 2024 06:39

Tgt Ion:225 Resp: 1371  
Ion Ratio Lower Upper  
225 100  
223 0.0 0.0 0.0  
227 63.8 51.3 76.9

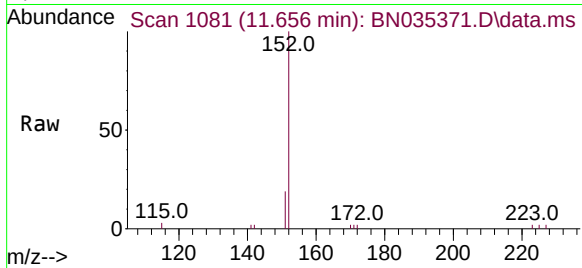






#11  
2-Methylnaphthalene-d10  
Concen: 0.507 ng  
RT: 11.656 min Scan# 1081  
Delta R.T. -0.000 min  
Lab File: BN035371.D  
Acq: 28 Nov 2024 06:39

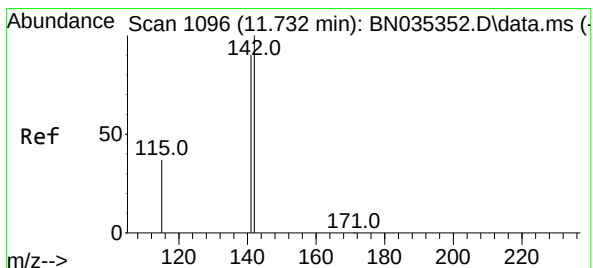
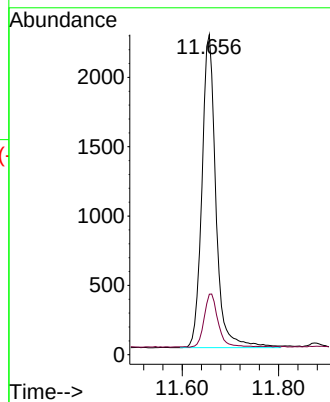
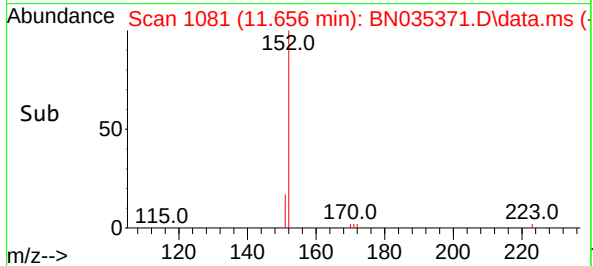
Instrument :  
BNA\_N  
ClientSampleId :  
PB165198BSD



Tgt Ion:152 Resp: 4544  
Ion Ratio Lower Upper  
152 100  
151 16.9 16.6 25.0

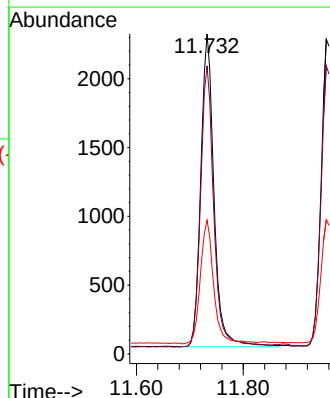
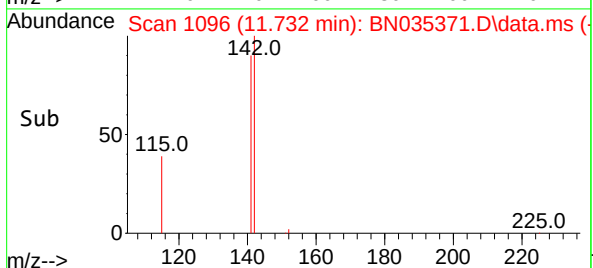
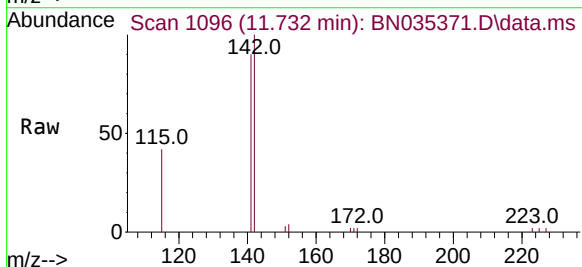
Manual Integrations  
**APPROVED**

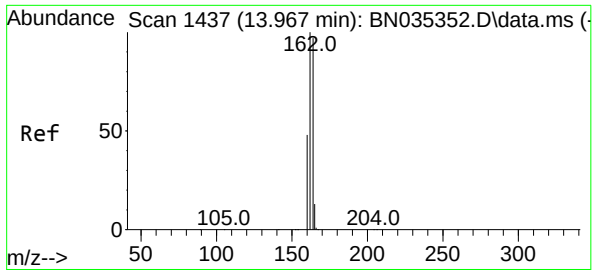
Reviewed By :Yogesh Patel 11/29/2024  
Supervised By :mohammad ahmed 11/29/2024



#12  
2-Methylnaphthalene  
Concen: 0.364 ng  
RT: 11.732 min Scan# 1096  
Delta R.T. -0.000 min  
Lab File: BN035371.D  
Acq: 28 Nov 2024 06:39

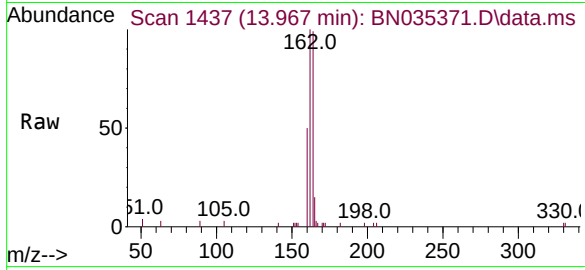
Tgt Ion:142 Resp: 3934  
Ion Ratio Lower Upper  
142 100  
141 90.1 72.2 108.4  
115 41.8 31.4 47.0





#13  
Acenaphthene-d10  
Concen: 0.400 ng  
RT: 13.967 min Scan# 1437  
Delta R.T. -0.000 min  
Lab File: BN035371.D  
Acq: 28 Nov 2024 06:39

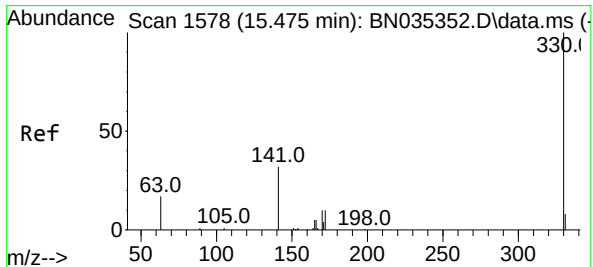
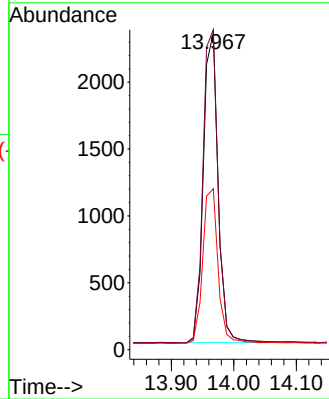
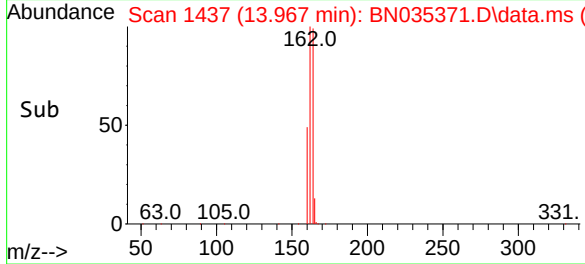
Instrument :  
BNA\_N  
ClientSampleId :  
PB165198BSD



Tgt Ion:164 Resp: 3800  
Ion Ratio Lower Upper  
164 100  
162 101.0 82.2 123.2  
160 50.8 40.1 60.1

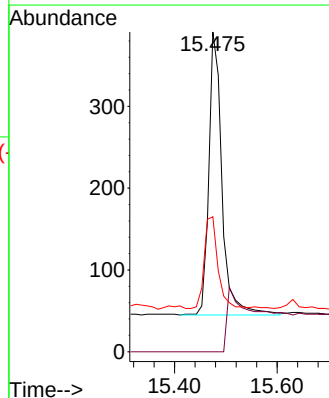
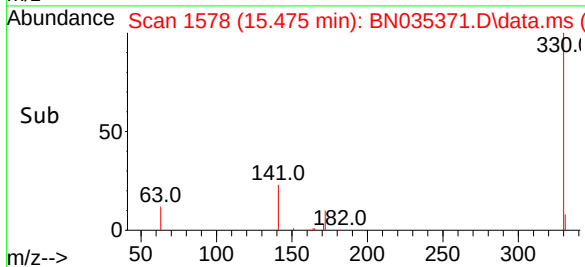
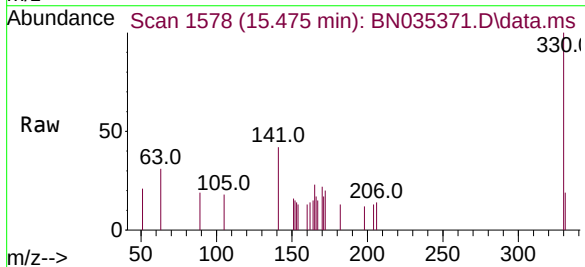
Manual Integrations  
**APPROVED**

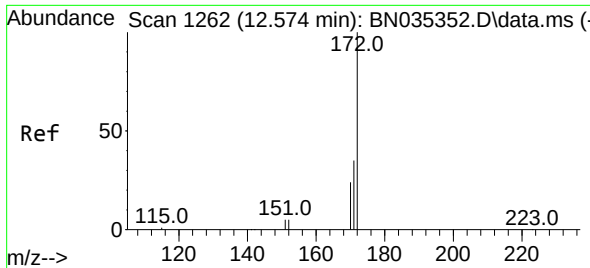
Reviewed By :Yogesh Patel 11/29/2024  
Supervised By :mohammad ahmed 11/29/2024



#14  
2,4,6-Tribromophenol  
Concen: 0.244 ng  
RT: 15.475 min Scan# 1578  
Delta R.T. -0.000 min  
Lab File: BN035371.D  
Acq: 28 Nov 2024 06:39

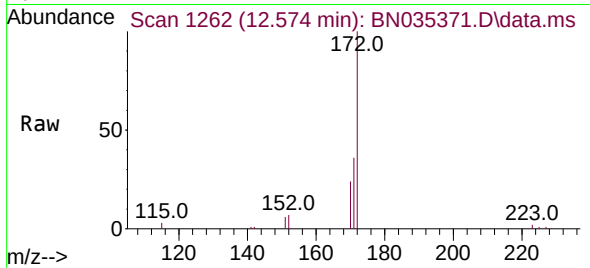
Tgt Ion:330 Resp: 658  
Ion Ratio Lower Upper  
330 100  
332 0.0 0.0 0.0  
141 35.0 26.6 40.0





#15  
2-Fluorobiphenyl  
Concen: 0.418 ng  
RT: 12.574 min Scan# 1262  
Delta R.T. -0.000 min  
Lab File: BN035371.D  
Acq: 28 Nov 2024 06:39

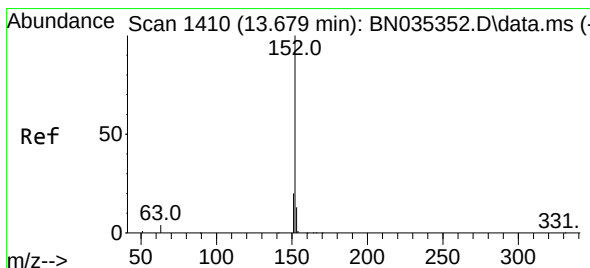
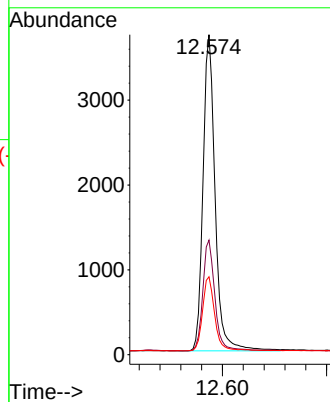
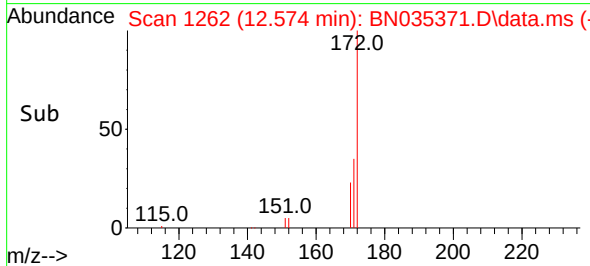
Instrument :  
BNA\_N  
ClientSampleId :  
PB165198BSD



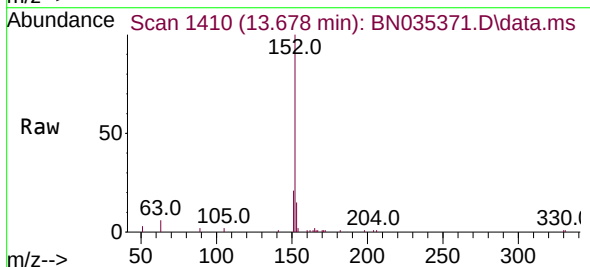
Tgt Ion:172 Resp: 601  
Ion Ratio Lower Upper  
172 100  
171 35.8 29.0 43.4  
170 24.3 19.8 29.8

Manual Integrations  
**APPROVED**

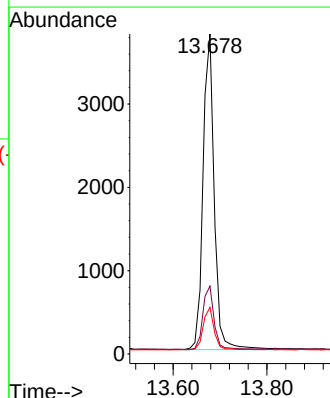
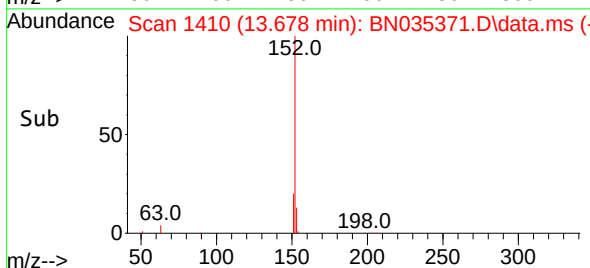
Reviewed By :Yogesh Patel 11/29/2024  
Supervised By :mohammad ahmed 11/29/2024

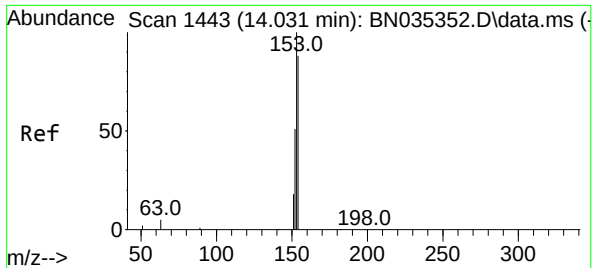


#16  
Acenaphthylene  
Concen: 0.394 ng  
RT: 13.678 min Scan# 1410  
Delta R.T. -0.000 min  
Lab File: BN035371.D  
Acq: 28 Nov 2024 06:39



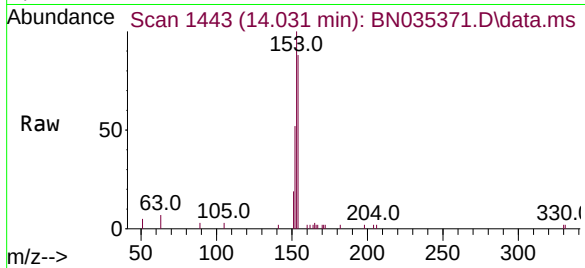
Tgt Ion:152 Resp: 6299  
Ion Ratio Lower Upper  
152 100  
151 20.1 16.2 24.2  
153 13.1 10.4 15.6





#17  
Acenaphthene  
Concen: 0.379 ng  
RT: 14.031 min Scan# 1443  
Delta R.T. -0.000 min  
Lab File: BN035371.D  
Acq: 28 Nov 2024 06:39

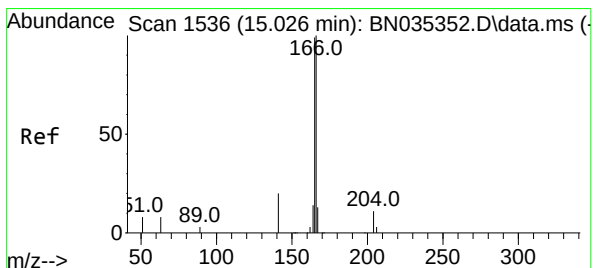
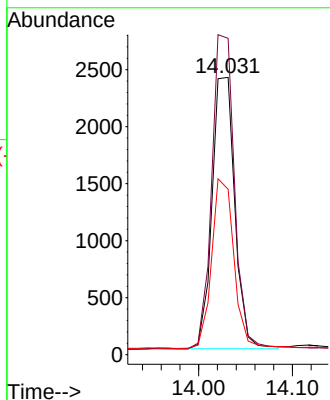
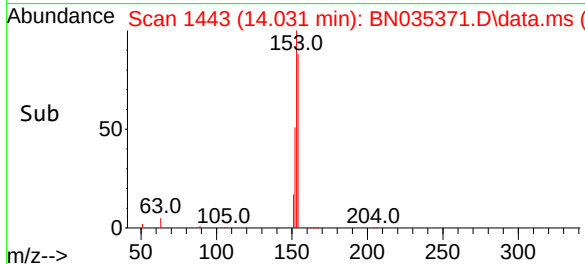
Instrument :  
BNA\_N  
ClientSampleId :  
PB165198BSD



Tgt Ion:154 Resp: 4018  
Ion Ratio Lower Upper  
154 100  
153 116.3 92.6 139.0  
152 62.2 49.0 73.6

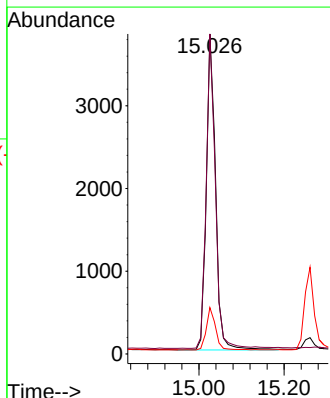
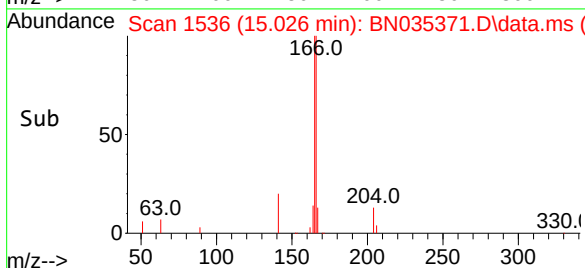
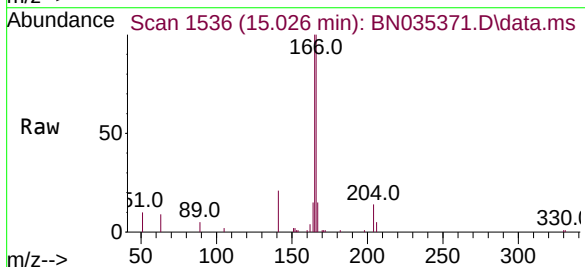
Manual Integrations  
**APPROVED**

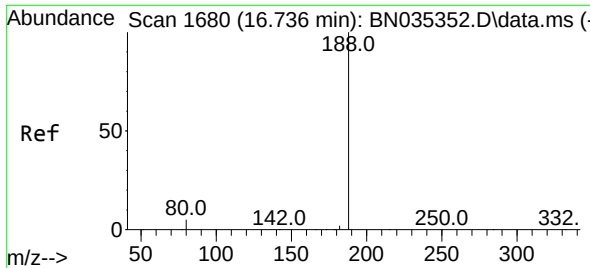
Reviewed By :Yogesh Patel 11/29/2024  
Supervised By :mohammad ahmed 11/29/2024



#18  
Fluorene  
Concen: 0.378 ng  
RT: 15.026 min Scan# 1536  
Delta R.T. -0.000 min  
Lab File: BN035371.D  
Acq: 28 Nov 2024 06:39

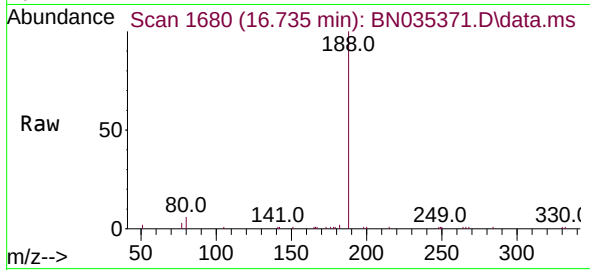
Tgt Ion:166 Resp: 5740  
Ion Ratio Lower Upper  
166 100  
165 97.3 79.7 119.5  
167 13.5 10.8 16.2





#19  
Phenanthrene-d10  
Concen: 0.400 ng  
RT: 16.735 min Scan# 1680  
Delta R.T. -0.000 min  
Lab File: BN035371.D  
Acq: 28 Nov 2024 06:39

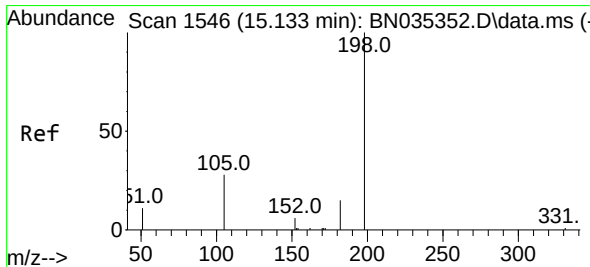
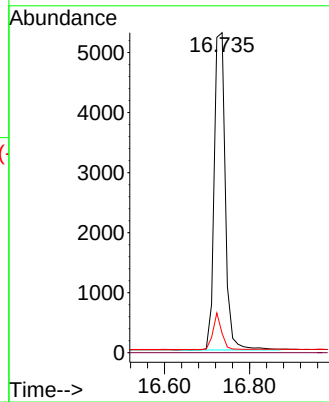
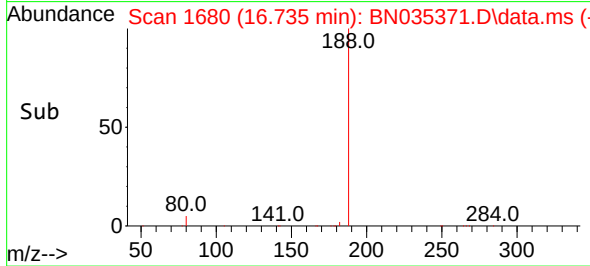
Instrument :  
BNA\_N  
ClientSampleId :  
PB165198BSD



Tgt Ion:188 Resp: 956  
Ion Ratio Lower Upper  
188 100  
94 0.0 0.0 0.0  
80 6.0 4.6 6.8

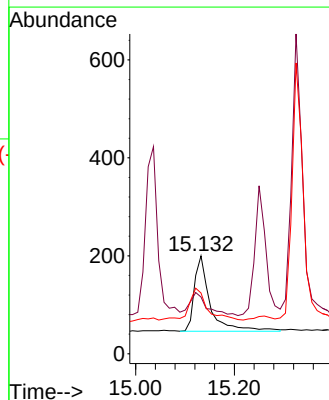
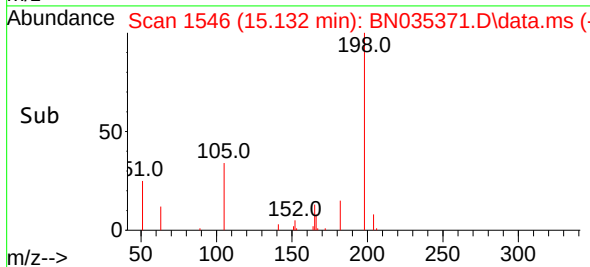
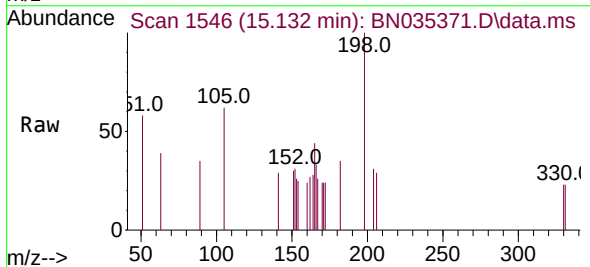
Manual Integrations  
**APPROVED**

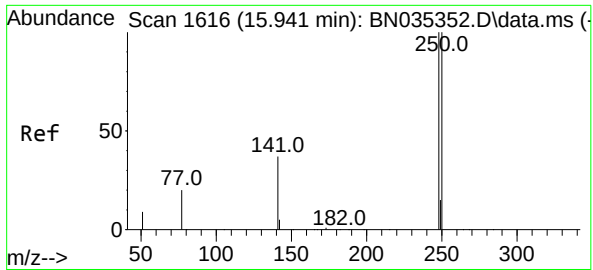
Reviewed By :Yogesh Patel 11/29/2024  
Supervised By :mohammad ahmed 11/29/2024



#20  
4,6-Dinitro-2-methylphenol  
Concen: 0.366 ng  
RT: 15.132 min Scan# 1546  
Delta R.T. -0.001 min  
Lab File: BN035371.D  
Acq: 28 Nov 2024 06:39

Tgt Ion:198 Resp: 344  
Ion Ratio Lower Upper  
198 100  
51 58.0 46.5 69.7  
105 62.0 45.3 67.9





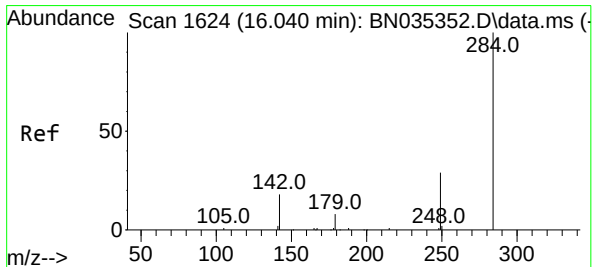
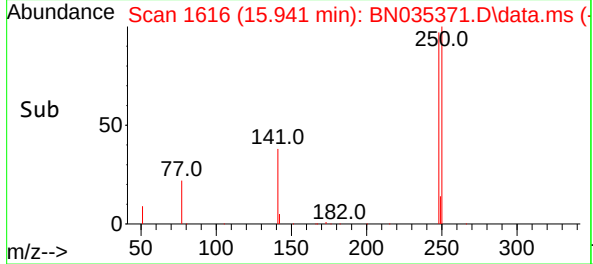
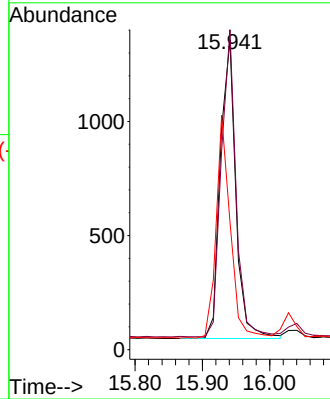
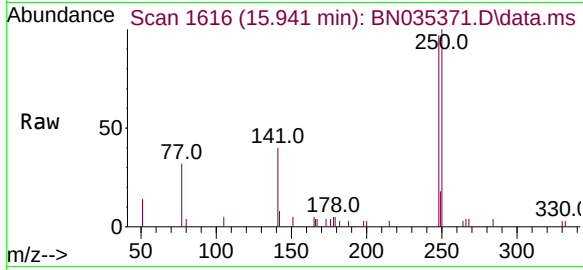
#21  
4-Bromophenyl-phenylether  
Concen: 0.376 ng  
RT: 15.941 min Scan# 1616  
Delta R.T. -0.000 min  
Lab File: BN035371.D  
Acq: 28 Nov 2024 06:39

Instrument :  
BNA\_N  
ClientSampleId :  
PB165198BSD

Tgt Ion:248 Resp: 210  
Ion Ratio Lower Upper  
248 100  
250 103.4 80.6 120.8  
141 41.4 31.5 47.3

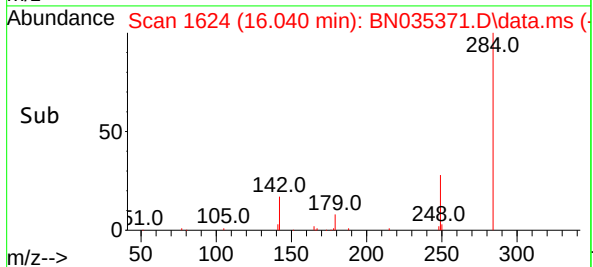
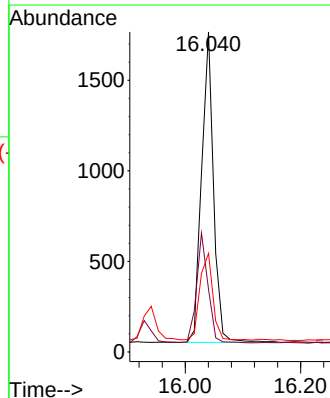
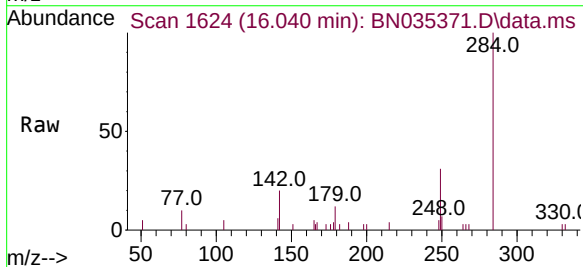
Manual Integrations  
**APPROVED**

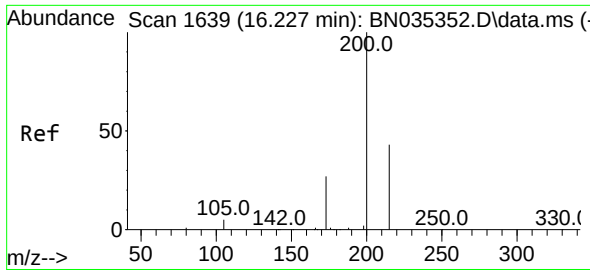
Reviewed By :Yogesh Patel 11/29/2024  
Supervised By :mohammad ahmed 11/29/2024



#22  
Hexachlorobenzene  
Concen: 0.375 ng  
RT: 16.040 min Scan# 1624  
Delta R.T. -0.000 min  
Lab File: BN035371.D  
Acq: 28 Nov 2024 06:39

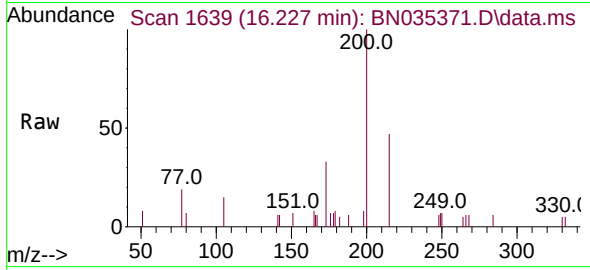
Tgt Ion:284 Resp: 2466  
Ion Ratio Lower Upper  
284 100  
142 34.3 26.7 40.1  
249 30.7 24.6 36.8





#23  
Atrazine  
Concen: 0.357 ng  
RT: 16.227 min Scan# 1639  
Delta R.T. -0.000 min  
Lab File: BN035371.D  
Acq: 28 Nov 2024 06:39

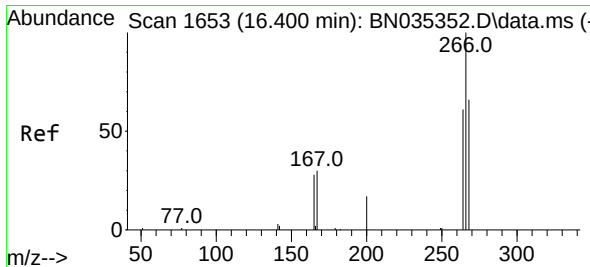
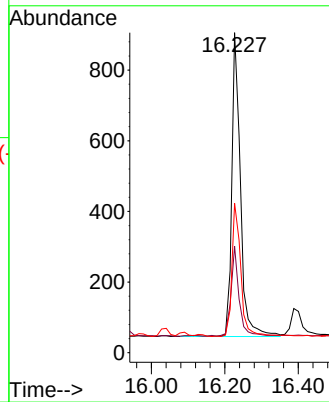
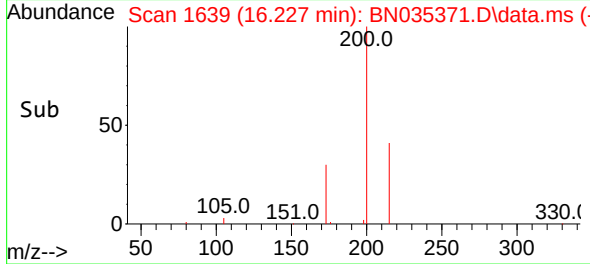
Instrument :  
BNA\_N  
ClientSampleId :  
PB165198BSD



Tgt Ion:200 Resp: 1420  
Ion Ratio Lower Upper  
200 100  
173 33.3 24.1 36.1  
215 46.7 36.9 55.3

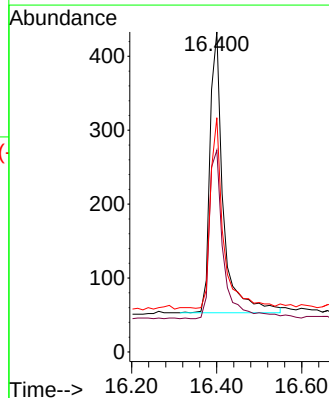
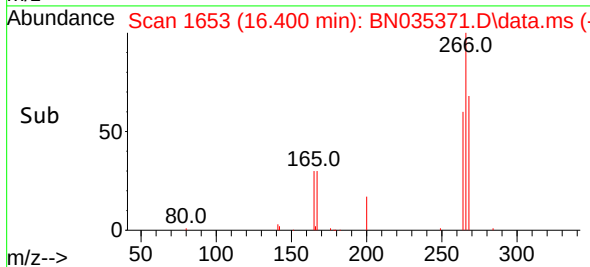
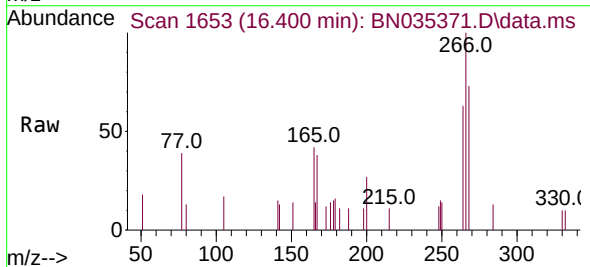
Manual Integrations  
APPROVED

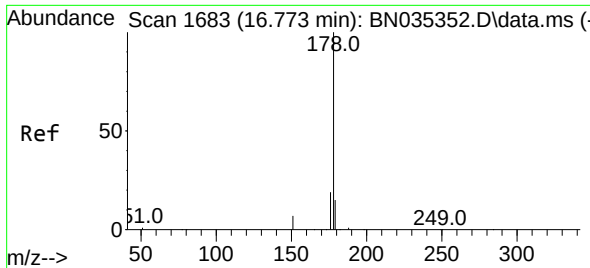
Reviewed By :Yogesh Patel 11/29/2024  
Supervised By :mohammad ahmed 11/29/2024



#24  
Pentachlorophenol  
Concen: 0.290 ng  
RT: 16.400 min Scan# 1653  
Delta R.T. -0.000 min  
Lab File: BN035371.D  
Acq: 28 Nov 2024 06:39

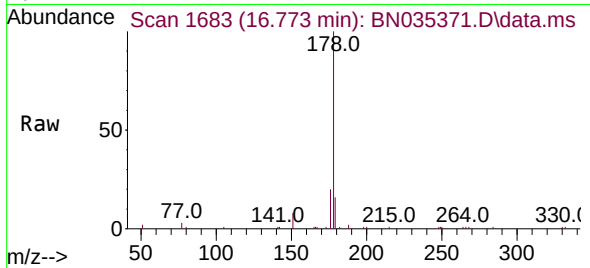
Tgt Ion:266 Resp: 828  
Ion Ratio Lower Upper  
266 100  
264 63.5 42.3 63.5#  
268 65.7 43.3 64.9#





#25  
Phenanthrene  
Concen: 0.383 ng  
RT: 16.773 min Scan# 1683  
Delta R.T. -0.000 min  
Lab File: BN035371.D  
Acq: 28 Nov 2024 06:39

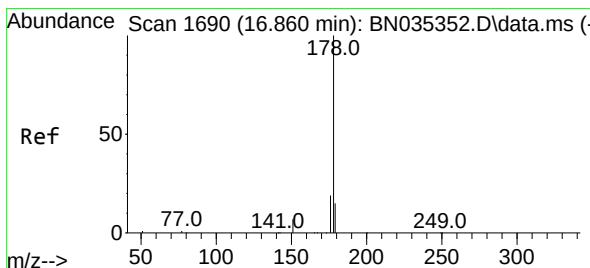
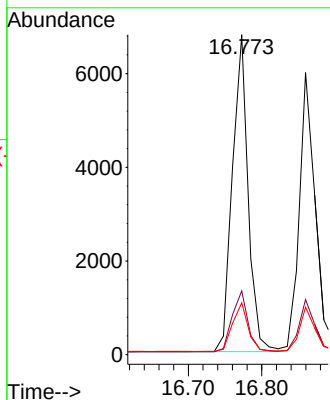
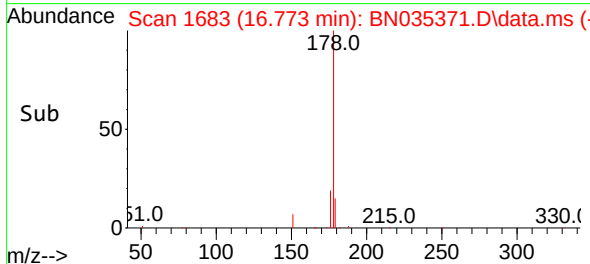
Instrument :  
BNA\_N  
ClientSampleId :  
PB165198BSD



Tgt Ion:178 Resp: 1005  
Ion Ratio Lower Upper  
178 100  
176 19.3 15.4 23.2  
179 15.3 12.3 18.5

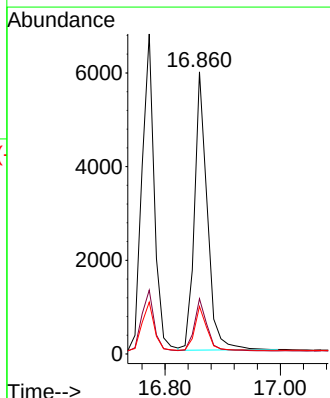
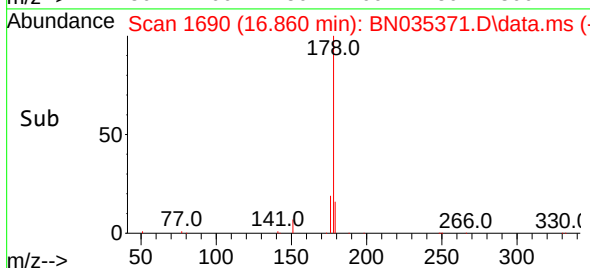
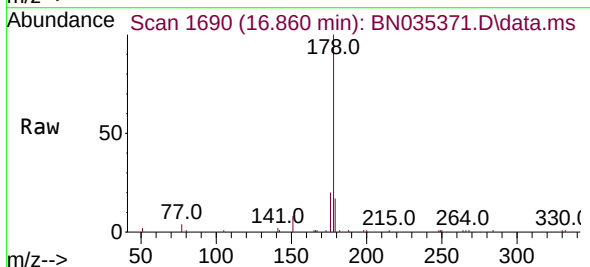
Manual Integrations  
**APPROVED**

Reviewed By :Yogesh Patel 11/29/2024  
Supervised By :mohammad ahmed 11/29/2024

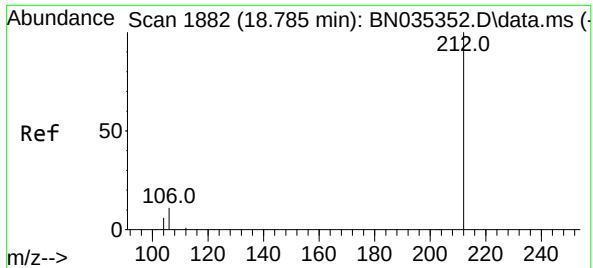


#26  
Anthracene  
Concen: 0.386 ng  
RT: 16.860 min Scan# 1690  
Delta R.T. -0.000 min  
Lab File: BN035371.D  
Acq: 28 Nov 2024 06:39

Tgt Ion:178 Resp: 9171  
Ion Ratio Lower Upper  
178 100  
176 18.8 15.0 22.6  
179 15.4 12.6 18.8







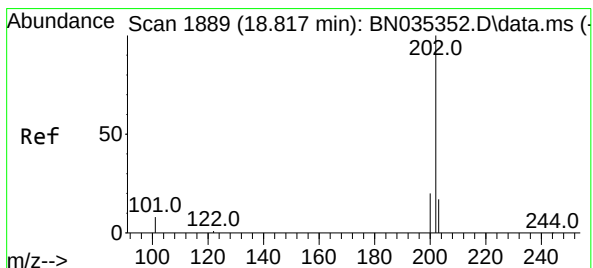
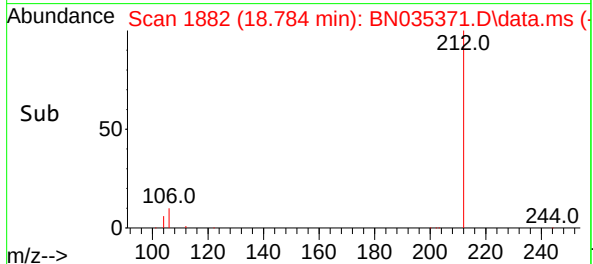
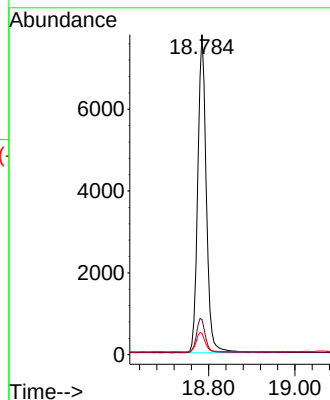
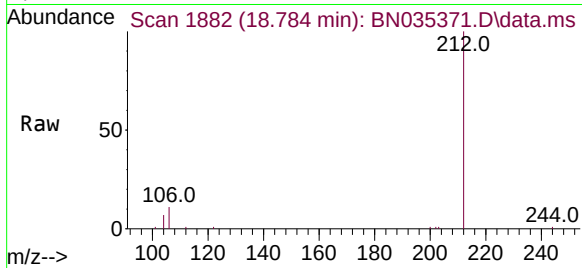
#27  
Fluoranthene-d10  
Concen: 0.395 ng  
RT: 18.784 min Scan# 1882  
Delta R.T. -0.000 min  
Lab File: BN035371.D  
Acq: 28 Nov 2024 06:39

Instrument :  
BNA\_N  
ClientSampleId :  
PB165198BSD

Tgt Ion:212 Resp: 1071  
Ion Ratio Lower Upper  
212 100  
106 10.9 9.2 13.8  
104 6.3 5.3 7.9

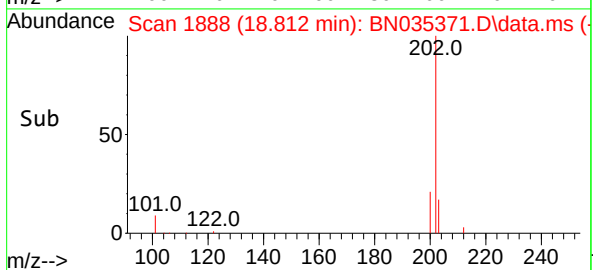
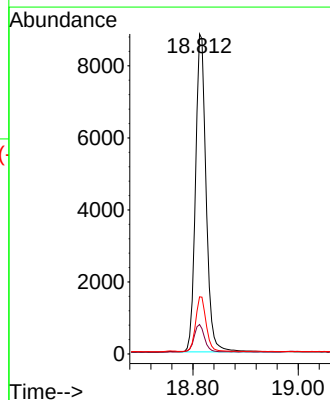
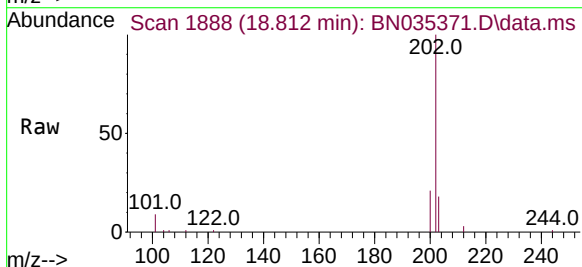
Manual Integrations  
**APPROVED**

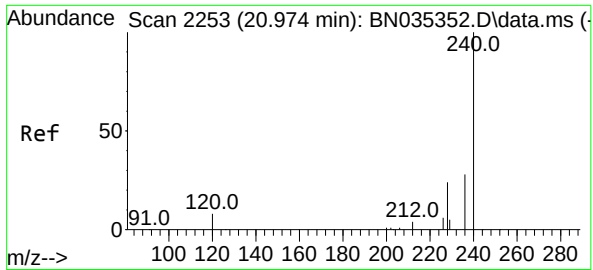
Reviewed By :Yogesh Patel 11/29/2024  
Supervised By :mohammad ahmed 11/29/2024



#28  
Fluoranthene  
Concen: 0.347 ng  
RT: 18.812 min Scan# 1888  
Delta R.T. -0.005 min  
Lab File: BN035371.D  
Acq: 28 Nov 2024 06:39

Tgt Ion:202 Resp: 12304  
Ion Ratio Lower Upper  
202 100  
101 8.9 7.4 11.0  
203 17.0 13.7 20.5





#29

Chrysene-d12

Concen: 0.400 ng

RT: 20.974 min Scan# 21

Delta R.T. -0.000 min

Lab File: BN035371.D

Acq: 28 Nov 2024 06:39

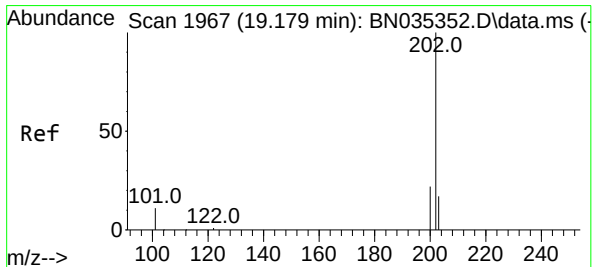
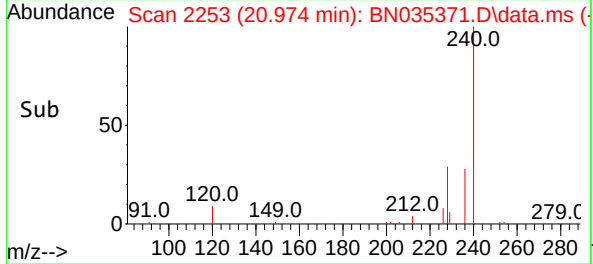
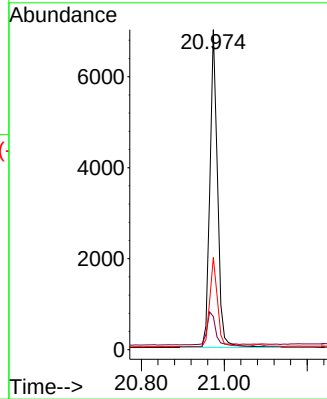
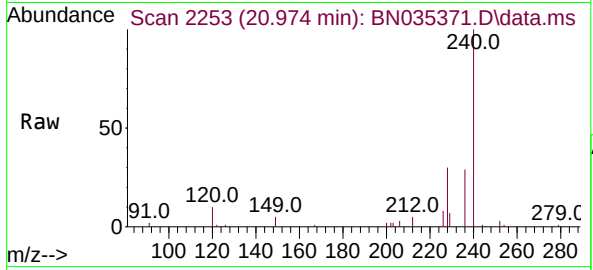
Instrument :

BNA\_N

ClientSampleId :

PB165198BSD

|           |       |       |      |
|-----------|-------|-------|------|
| Tgt Ion:  | 240   | Resp: | 894  |
| Ion Ratio | Lower | Upper |      |
| 240       | 100   |       |      |
| 120       | 10.4  | 7.9   | 11.9 |
| 236       | 28.8  | 22.9  | 34.3 |

**Manual Integrations**  
**APPROVED**Reviewed By :Yogesh Patel 11/29/2024  
Supervised By :mohammad ahmed 11/29/2024

#30

Pyrene

Concen: 0.384 ng

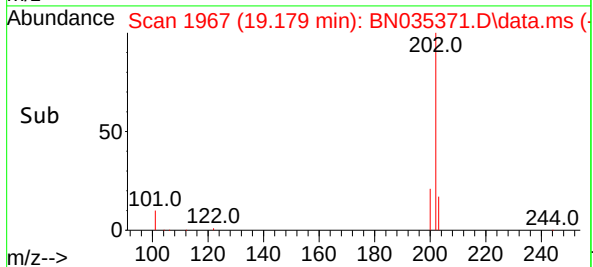
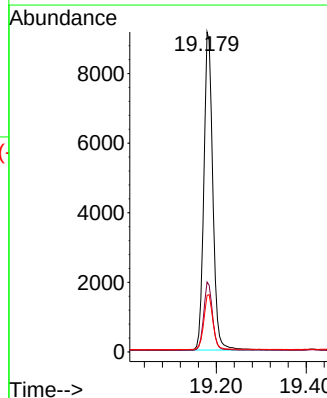
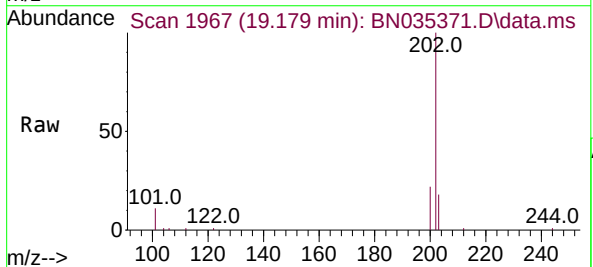
RT: 19.179 min Scan# 1967

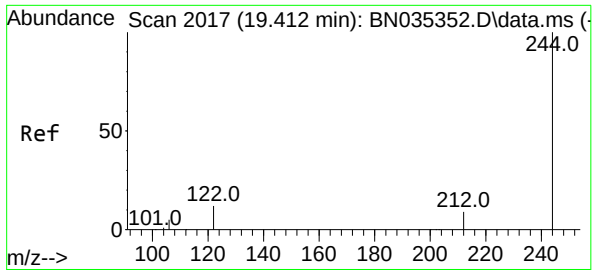
Delta R.T. -0.000 min

Lab File: BN035371.D

Acq: 28 Nov 2024 06:39

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 202   | Resp: | 12695 |
| Ion Ratio | Lower | Upper |       |
| 202       | 100   |       |       |
| 200       | 21.3  | 17.0  | 25.4  |
| 203       | 17.6  | 14.3  | 21.5  |





#31  
Terphenyl-d14  
Concen: 0.451 ng  
RT: 19.412 min Scan# 2017  
Delta R.T. -0.000 min  
Lab File: BN035371.D  
Acq: 28 Nov 2024 06:39

Instrument :

BNA\_N

ClientSampleId :

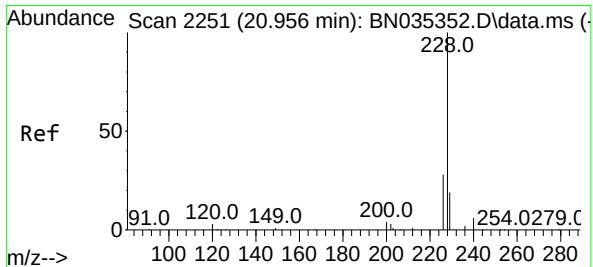
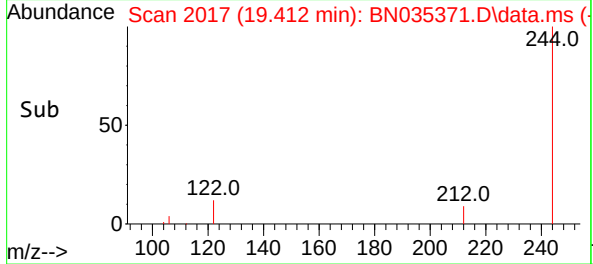
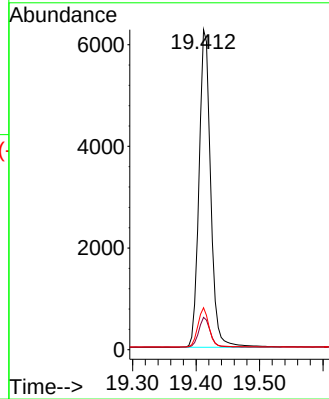
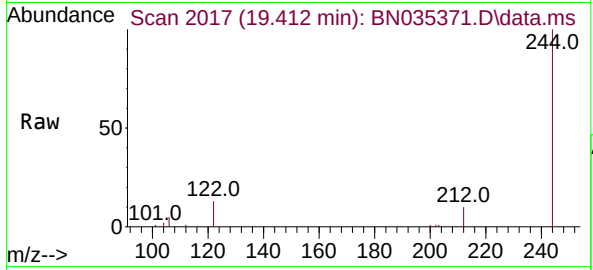
PB165198BSD

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 244     | 100   |       |       |
| 212     | 10.1  | 8.1   | 12.1  |
| 122     | 13.1  | 10.3  | 15.5  |

Manual Integrations

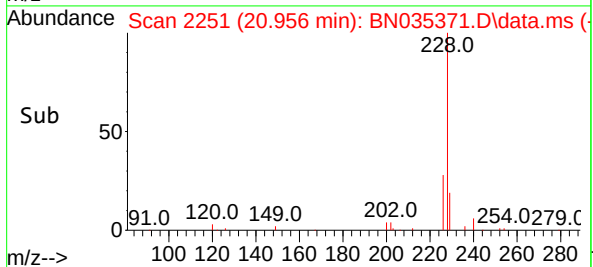
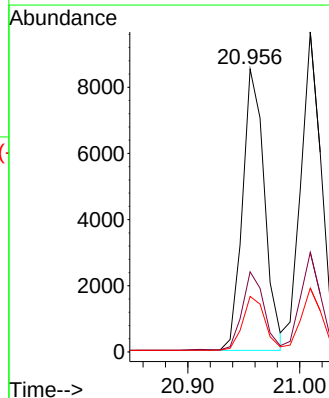
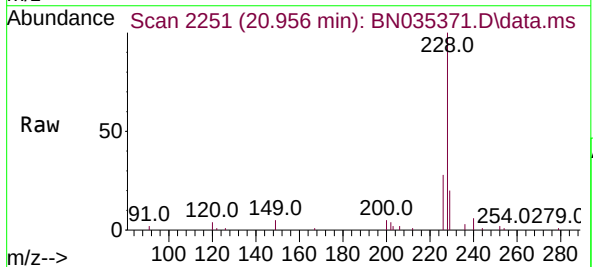
APPROVED

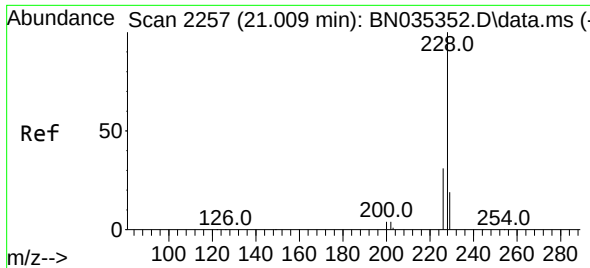
Reviewed By :Yogesh Patel 11/29/2024  
Supervised By :mohammad ahmed 11/29/2024



#32  
Benzo(a)anthracene  
Concen: 0.371 ng  
RT: 20.956 min Scan# 2251  
Delta R.T. -0.000 min  
Lab File: BN035371.D  
Acq: 28 Nov 2024 06:39

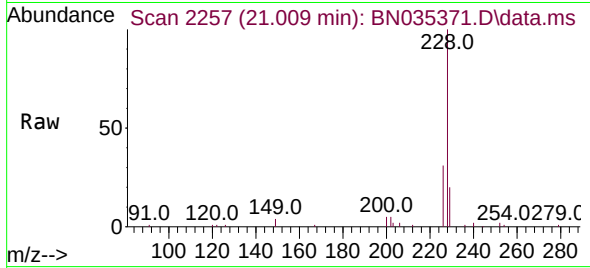
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 228     | 100   |       |       |
| 226     | 28.4  | 22.5  | 33.7  |
| 229     | 19.6  | 15.8  | 23.8  |





#33  
Chrysene  
Concen: 0.393 ng  
RT: 21.009 min Scan# 21  
Delta R.T. -0.000 min  
Lab File: BN035371.D  
Acq: 28 Nov 2024 06:39

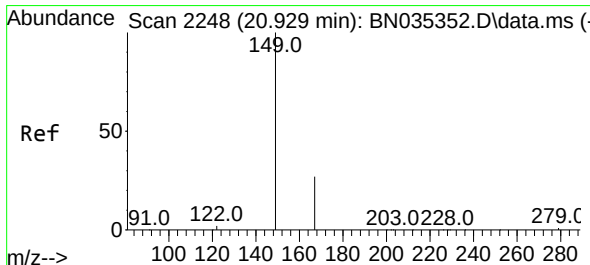
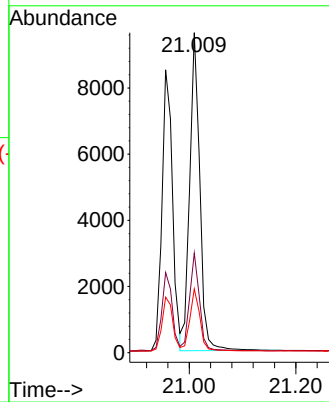
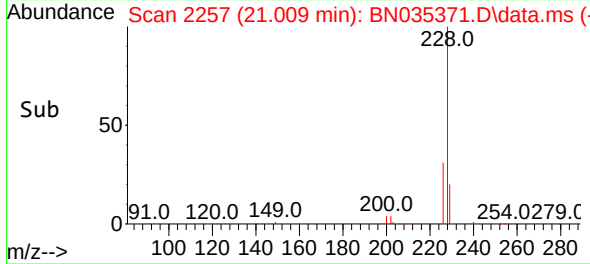
Instrument :  
BNA\_N  
ClientSampleId :  
PB165198BSD



Tgt Ion:228 Resp: 1268  
Ion Ratio Lower Upper  
228 100  
226 31.2 24.6 37.0  
229 20.0 15.9 23.9

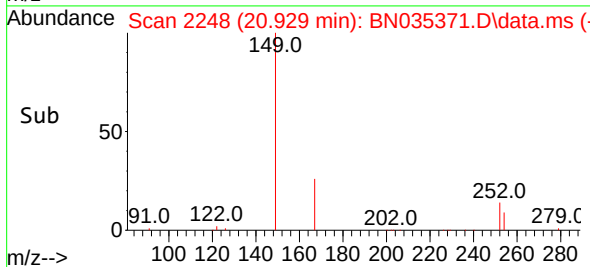
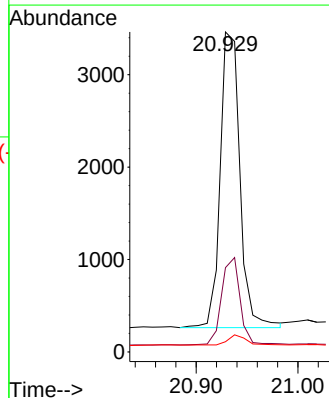
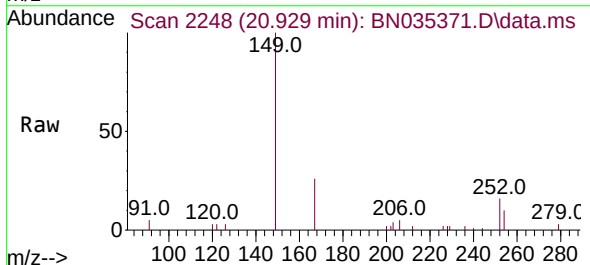
Manual Integrations  
**APPROVED**

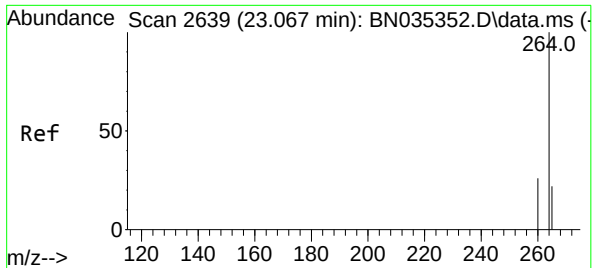
Reviewed By :Yogesh Patel 11/29/2024  
Supervised By :mohammad ahmed 11/29/2024



#34  
Bis(2-ethylhexyl)phthalate  
Concen: 0.348 ng  
RT: 20.929 min Scan# 2248  
Delta R.T. -0.000 min  
Lab File: BN035371.D  
Acq: 28 Nov 2024 06:39

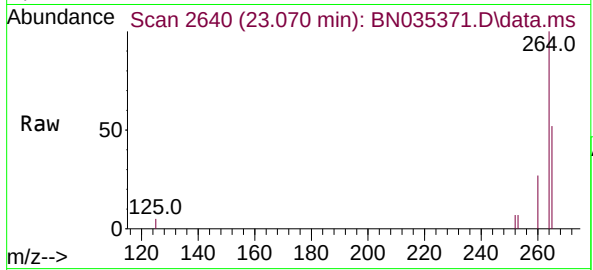
Tgt Ion:149 Resp: 4303  
Ion Ratio Lower Upper  
149 100  
167 27.9 22.2 33.4  
279 3.3 2.7 4.1





#35  
Perylene-d12  
Concen: 0.400 ng  
RT: 23.070 min Scan# 2640  
Delta R.T. 0.003 min  
Lab File: BN035371.D  
Acq: 28 Nov 2024 06:39

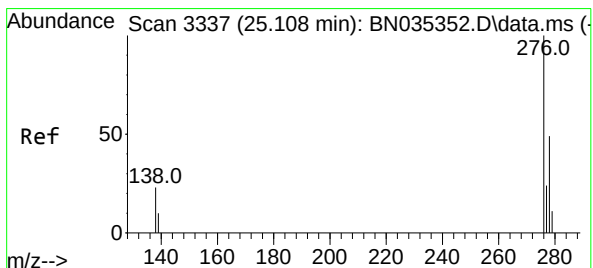
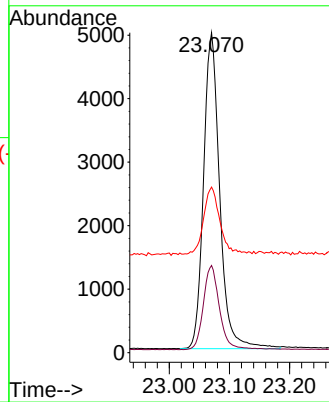
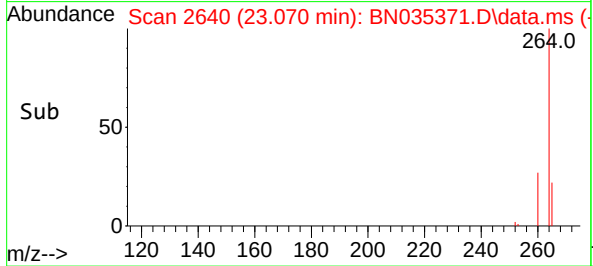
Instrument :  
BNA\_N  
ClientSampleId :  
PB165198BSD



Tgt Ion:264 Resp: 9280  
Ion Ratio Lower Upper  
264 100  
260 27.3 21.4 32.2  
265 51.7 40.2 60.4

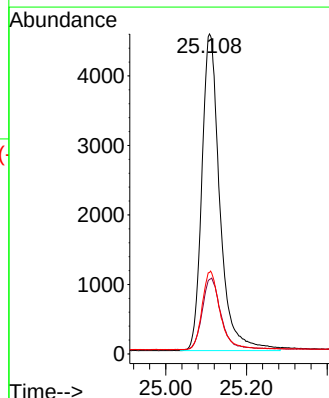
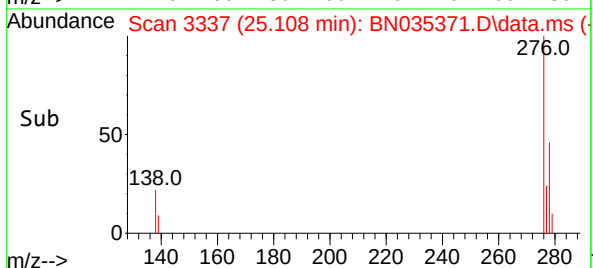
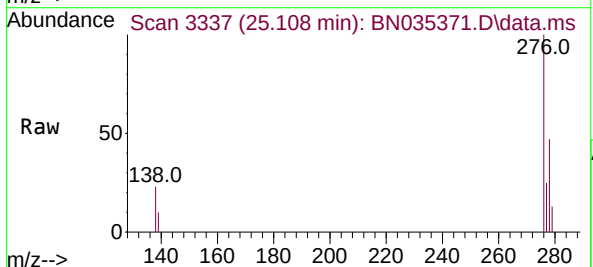
Manual Integrations  
**APPROVED**

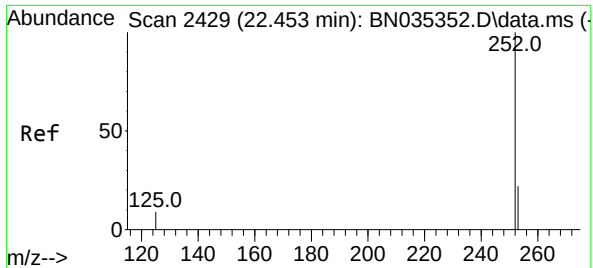
Reviewed By :Yogesh Patel 11/29/2024  
Supervised By :mohammad ahmed 11/29/2024



#36  
Indeno(1,2,3-cd)pyrene  
Concen: 0.389 ng  
RT: 25.108 min Scan# 3337  
Delta R.T. -0.000 min  
Lab File: BN035371.D  
Acq: 28 Nov 2024 06:39

Tgt Ion:276 Resp: 14123  
Ion Ratio Lower Upper  
276 100  
138 23.3 19.4 29.0  
277 24.7 19.8 29.6





#37

Benzo(b)fluoranthene

Concen: 0.367 ng

RT: 22.456 min Scan# 2430

Delta R.T. 0.003 min

Lab File: BN035371.D

Acq: 28 Nov 2024 06:39

Instrument :

BNA\_N

ClientSampleId :

PB165198BSD

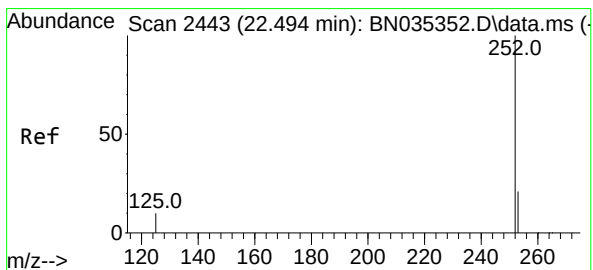
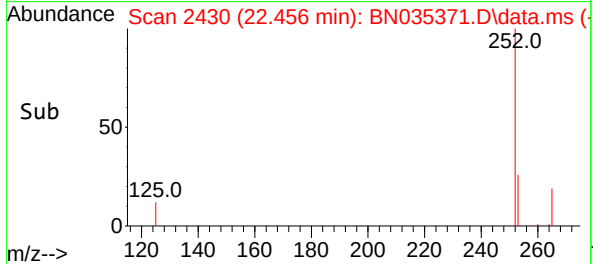
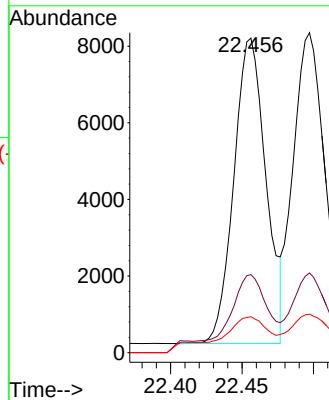
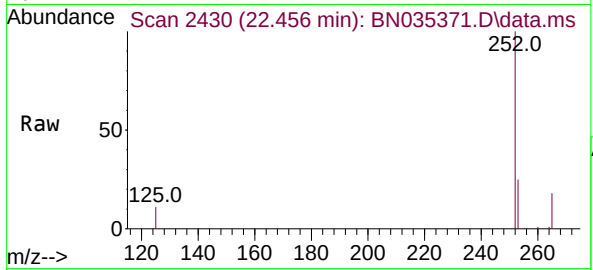
|           |       |       |      |
|-----------|-------|-------|------|
| Tgt Ion:  | 252   | Resp: | 1245 |
| Ion Ratio | Lower | Upper |      |
| 252       | 100   |       |      |
| 253       | 24.8  | 19.6  | 29.4 |
| 125       | 11.4  | 9.6   | 14.4 |

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 11/29/2024

Supervised By :mohammad ahmed 11/29/2024



#38

Benzo(k)fluoranthene

Concen: 0.394 ng

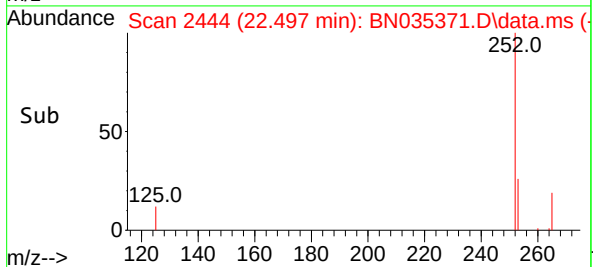
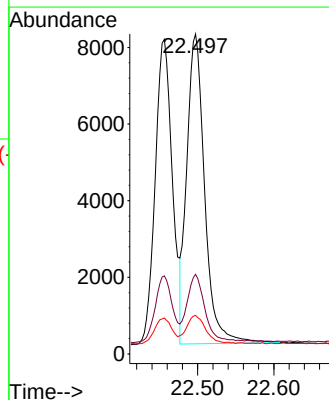
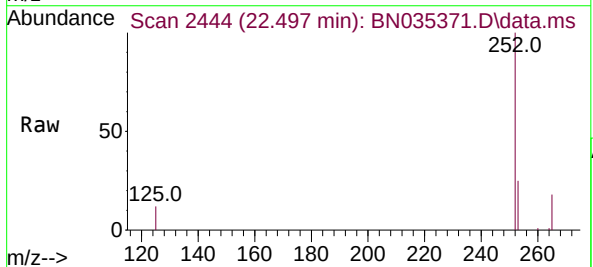
RT: 22.497 min Scan# 2444

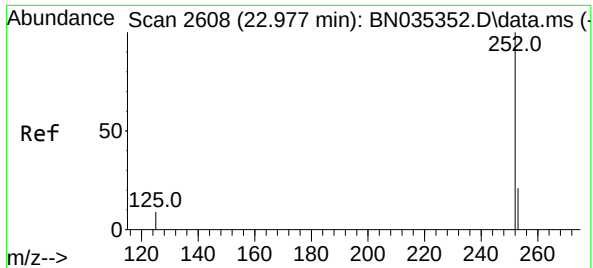
Delta R.T. 0.003 min

Lab File: BN035371.D

Acq: 28 Nov 2024 06:39

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 252   | Resp: | 13182 |
| Ion Ratio | Lower | Upper |       |
| 252       | 100   |       |       |
| 253       | 24.9  | 19.5  | 29.3  |
| 125       | 12.1  | 10.2  | 15.4  |





#39

Benzo(a)pyrene

Concen: 0.403 ng

RT: 22.980 min Scan# 2609

Delta R.T. 0.003 min

Lab File: BN035371.D

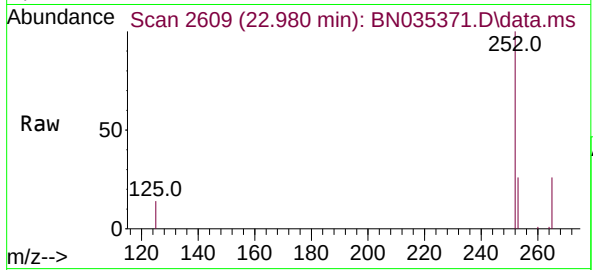
Acq: 28 Nov 2024 06:39

Instrument :

BNA\_N

ClientSampleId :

PB165198BSD



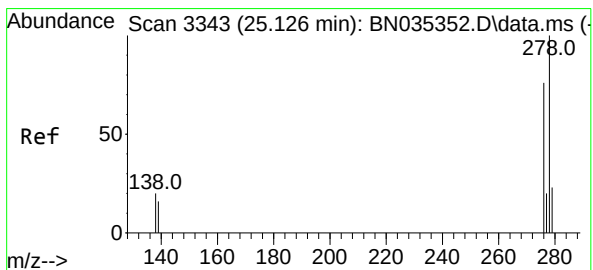
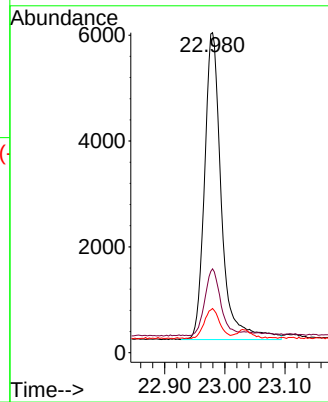
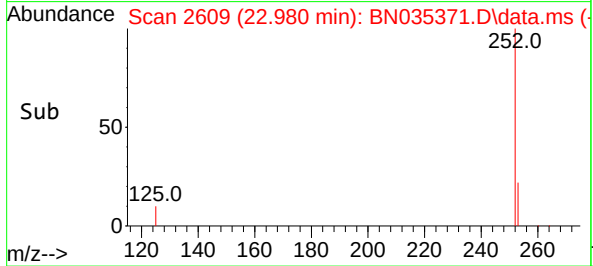
|           |       |       |      |
|-----------|-------|-------|------|
| Tgt Ion:  | 252   | Resp: | 1127 |
| Ion Ratio | Lower | Upper |      |
| 252       | 100   |       |      |
| 253       | 26.2  | 20.2  | 30.4 |
| 125       | 13.8  | 10.9  | 16.3 |

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 11/29/2024

Supervised By :mohammad ahmed 11/29/2024



#40

Dibenzo(a,h)anthracene

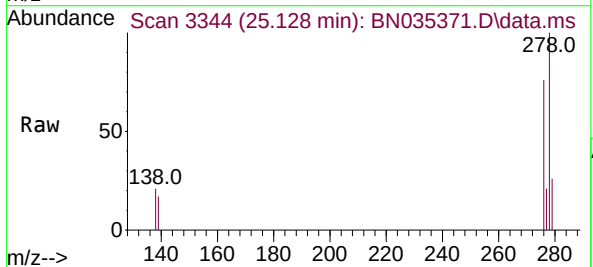
Concen: 0.384 ng

RT: 25.128 min Scan# 3344

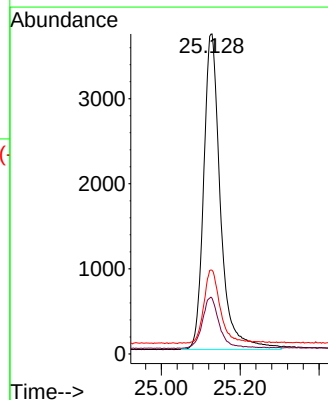
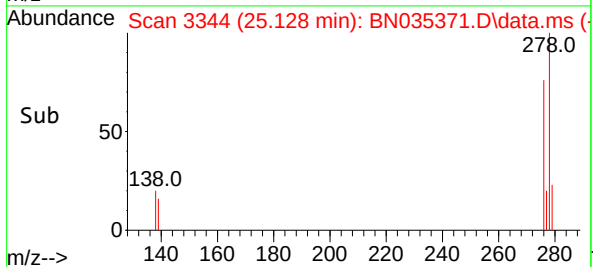
Delta R.T. 0.003 min

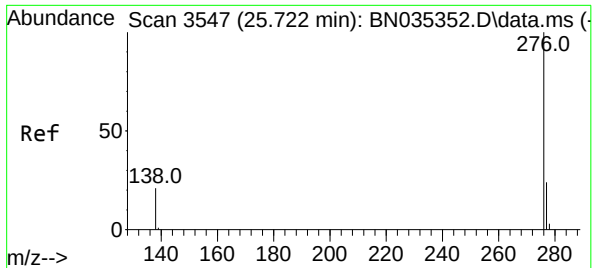
Lab File: BN035371.D

Acq: 28 Nov 2024 06:39



|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 278   | Resp: | 10990 |
| Ion Ratio | Lower | Upper |       |
| 278       | 100   |       |       |
| 139       | 17.4  | 14.2  | 21.4  |
| 279       | 26.1  | 20.5  | 30.7  |





#41

Benzo(g,h,i)perylene

Concen: 0.355 ng

RT: 25.725 min Scan# 31

Delta R.T. 0.003 min

Lab File: BN035371.D

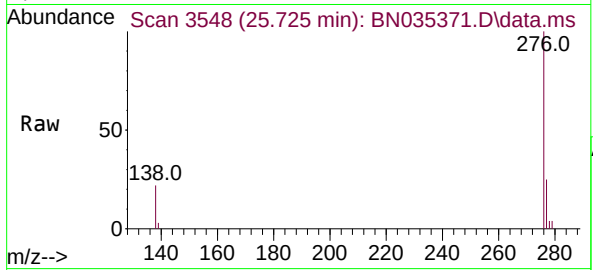
Acq: 28 Nov 2024 06:39

Instrument :

BNA\_N

ClientSampleId :

PB165198BSD



Tgt Ion:276 Resp: 1060

Ion Ratio Lower Upper

276 100

277 25.1 19.9 29.9

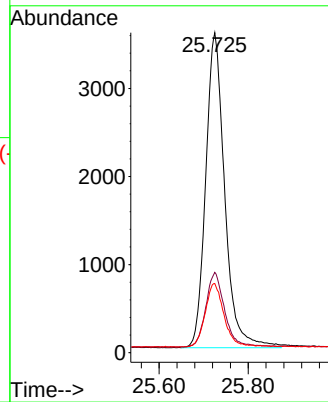
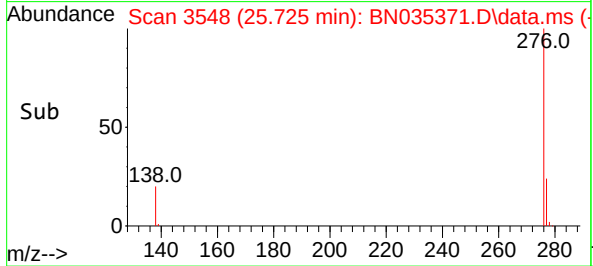
138 21.6 17.8 26.8

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 11/29/2024

Supervised By :mohammad ahmed 11/29/2024





## Manual Integration Report

|           |          |            |       |
|-----------|----------|------------|-------|
| Sequence: | BN112524 | Instrument | BNA_n |
|-----------|----------|------------|-------|

| Sample ID  | File ID    | Parameter        | Review By | Review On                | Supervised By | Supervised On            | Reason                      |
|------------|------------|------------------|-----------|--------------------------|---------------|--------------------------|-----------------------------|
| SSTDICC0.1 | BN035277.D | Nitrobenzene-d5  | yogesh    | 11/27/2024<br>5:29:21 AM | mohammad      | 11/27/2024<br>6:04:55 AM | Peak Integrated by Software |
| SSTDICC0.2 | BN035278.D | Nitrobenzene-d5  | yogesh    | 11/27/2024<br>5:29:22 AM | mohammad      | 11/27/2024<br>6:04:55 AM | Peak Integrated by Software |
| SSTDICV0.4 | BN035284.D | Fluoranthene-d10 | yogesh    | 11/27/2024<br>5:29:23 AM | mohammad      | 11/27/2024<br>6:04:55 AM | Peak Integrated by Software |
| SSTDCCC0.4 | BN035291.D | Nitrobenzene-d5  | yogesh    | 11/27/2024<br>5:29:34 AM | mohammad      | 11/27/2024<br>6:04:55 AM | Peak Integrated by Software |
| SSTDCCC0.4 | BN035293.D | Nitrobenzene-d5  | yogesh    | 11/27/2024<br>5:29:52 AM | mohammad      | 11/27/2024<br>6:04:55 AM | Peak Integrated by Software |
| P4959-02   | BN035298.D | Nitrobenzene-d5  | yogesh    | 11/27/2024<br>5:30:18 AM | mohammad      | 11/27/2024<br>6:04:55 AM | Peak Integrated by Software |
| P4959-03   | BN035299.D | Nitrobenzene-d5  | yogesh    | 11/27/2024<br>5:30:20 AM | mohammad      | 11/27/2024<br>6:04:55 AM | Peak Integrated by Software |
| SSTDCCC0.4 | BN035300.D | Nitrobenzene-d5  | yogesh    | 11/27/2024<br>5:30:22 AM | mohammad      | 11/27/2024<br>6:04:55 AM | Peak Integrated by Software |

## Manual Integration Report

|           |          |            |       |
|-----------|----------|------------|-------|
| Sequence: | BN112724 | Instrument | BNA_n |
|-----------|----------|------------|-------|

| Sample ID   | File ID    | Parameter            | Review By | Review On                 | Supervised By | Supervised On            | Reason                      |
|-------------|------------|----------------------|-----------|---------------------------|---------------|--------------------------|-----------------------------|
| SSTDIC0.1   | BN035350.D | Benzo(k)fluoranthene | yogesh    | 11/29/2024<br>12:47:08 AM | mohammad      | 12/3/2024<br>12:32:57 AM | Peak Integrated by Software |
| SSTDIC0.1   | BN035350.D | Nitrobenzene-d5      | yogesh    | 11/29/2024<br>12:47:08 AM | mohammad      | 12/3/2024<br>12:32:57 AM | Peak Integrated by Software |
| SSTDIC0.2   | BN035351.D | Benzo(k)fluoranthene | yogesh    | 11/29/2024<br>12:47:10 AM | mohammad      | 12/3/2024<br>12:32:57 AM | Peak Integrated by Software |
| SSTDIC0.2   | BN035351.D | Nitrobenzene-d5      | yogesh    | 11/29/2024<br>12:47:10 AM | mohammad      | 12/3/2024<br>12:32:57 AM | Peak Integrated by Software |
| SSTDIC0.4   | BN035352.D | Nitrobenzene-d5      | yogesh    | 11/29/2024<br>12:47:11 AM | mohammad      | 12/3/2024<br>12:32:57 AM | Peak Integrated by Software |
| SSTDICV0.4  | BN035357.D | Nitrobenzene-d5      | yogesh    | 11/29/2024<br>12:47:22 AM | mohammad      | 12/3/2024<br>12:32:57 AM | Peak Integrated by Software |
| SSTDCCC0.4  | BN035366.D | Nitrobenzene-d5      | yogesh    | 11/29/2024<br>12:47:37 AM | mohammad      | 12/3/2024<br>12:32:57 AM | Peak Integrated by Software |
| SSTDCCC0.4  | BN035368.D | Nitrobenzene-d5      | yogesh    | 11/29/2024<br>12:48:03 AM | mohammad      | 12/3/2024<br>12:32:57 AM | Peak Integrated by Software |
| PB165198BL  | BN035369.D | Nitrobenzene-d5      | yogesh    | 11/29/2024<br>12:48:04 AM | mohammad      | 12/3/2024<br>12:32:57 AM | Peak Integrated by Software |
| PB165198BS  | BN035370.D | Nitrobenzene-d5      | yogesh    | 11/29/2024<br>12:48:07 AM | mohammad      | 12/3/2024<br>12:32:57 AM | Peak Integrated by Software |
| PB165198BSD | BN035371.D | Nitrobenzene-d5      | yogesh    | 11/29/2024<br>12:48:08 AM | mohammad      | 12/3/2024<br>12:32:57 AM | Peak Integrated by Software |
| P4959-01    | BN035374.D | Nitrobenzene-d5      | Jagrut    | 12/2/2024<br>11:34:17 AM  | mohammad      | 12/3/2024<br>12:32:57 AM | Peak Integrated by Software |
| SSTDCCC0.4  | BN035375.D | Nitrobenzene-d5      | yogesh    | 11/29/2024<br>12:48:17 AM | mohammad      | 12/3/2024<br>12:32:57 AM | Peak Integrated by Software |



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

## Manual Integration Report

Sequence:

BN112724

Instrument

BNA\_n

Sample ID

File ID

Parameter

Review By

Review On

Supervised  
By

Supervised On

Reason

Instrument ID: **BNA\_N**

**Daily Analysis Runlog For Sequence/QC Batch ID # BN112524**

|                          |                                                  |                   |                                               |
|--------------------------|--------------------------------------------------|-------------------|-----------------------------------------------|
| Review By                | yogesh                                           | Review On         | 11/27/2024 5:30:45 AM                         |
| Supervise By             | mohammad                                         | Supervise On      | 11/27/2024 6:04:55 AM                         |
| SubDirectory             | BN112524                                         | HP Acquire Method | BNA_N, 8270_SiM HP Processing Method bn112524 |
| <b>STD. NAME</b>         | <b>STD REF.#</b>                                 |                   |                                               |
| Tune/Reschk              | SP6573                                           |                   |                                               |
| Initial Calibration Stds | SP6663,SP6662,SP6661,SP6660,SP6659,SP6658,SP6657 |                   |                                               |
| CCC                      | SP6661                                           |                   |                                               |
| Internal Standard/PEM    | SP6527,1ul/100ul sample                          |                   |                                               |
| ICV/I.BLK                | SP6548                                           |                   |                                               |
| Surrogate Standard       |                                                  |                   |                                               |
| MS/MSD Standard          |                                                  |                   |                                               |
| LCS Standard             |                                                  |                   |                                               |

| Sr# | SampleId    | Data File Name | Date-Time         | Operator | Status |
|-----|-------------|----------------|-------------------|----------|--------|
| 1   | DFTPP       | BN035276.D     | 25 Nov 2024 09:37 | RC/JU    | Ok     |
| 2   | SSTDICC0.1  | BN035277.D     | 25 Nov 2024 10:16 | RC/JU    | Ok,M   |
| 3   | SSTDICC0.2  | BN035278.D     | 25 Nov 2024 10:52 | RC/JU    | Ok,M   |
| 4   | SSTDICCC0.4 | BN035279.D     | 25 Nov 2024 11:28 | RC/JU    | Ok     |
| 5   | SSTDICC0.8  | BN035280.D     | 25 Nov 2024 12:04 | RC/JU    | Ok     |
| 6   | SSTDICC1.6  | BN035281.D     | 25 Nov 2024 12:40 | RC/JU    | Ok     |
| 7   | SSTDICC3.2  | BN035282.D     | 25 Nov 2024 13:16 | RC/JU    | Ok     |
| 8   | SSTDICC5.0  | BN035283.D     | 25 Nov 2024 13:52 | RC/JU    | Ok     |
| 9   | SSTDICV0.4  | BN035284.D     | 25 Nov 2024 14:29 | RC/JU    | Ok,M   |
| 10  | PB165150BL  | BN035285.D     | 25 Nov 2024 15:44 | RC/JU    | Ok,M   |
| 11  | P4934-02    | BN035286.D     | 25 Nov 2024 16:20 | RC/JU    | Ok     |
| 12  | P4934-05    | BN035287.D     | 25 Nov 2024 16:56 | RC/JU    | Ok,M   |
| 13  | P4934-06MS  | BN035288.D     | 25 Nov 2024 17:32 | RC/JU    | Ok,M   |
| 14  | P4934-07MSD | BN035289.D     | 25 Nov 2024 18:08 | RC/JU    | Ok,M   |
| 15  | PB165150BS  | BN035290.D     | 25 Nov 2024 18:44 | RC/JU    | Ok,M   |
| 16  | SSTDCCC0.4  | BN035291.D     | 25 Nov 2024 19:20 | RC/JU    | Ok,M   |
| 17  | DFTPP       | BN035292.D     | 25 Nov 2024 20:35 | RC/JU    | Ok     |
| 18  | SSTDCCC0.4  | BN035293.D     | 25 Nov 2024 23:02 | RC/JU    | Ok,M   |
| 19  | PB165198BL  | BN035294.D     | 25 Nov 2024 23:38 | RC/JU    | Ok,M   |
| 20  | PB165198BS  | BN035295.D     | 26 Nov 2024 00:14 | RC/JU    | Not Ok |
| 21  | PB165198BSD | BN035296.D     | 26 Nov 2024 00:50 | RC/JU    | Not Ok |

Instrument ID: **BNA\_N**

**Daily Analysis Runlog For Sequence/QC Batch ID # BN112524**

| Review By                | yogesh                                           | Review On         | 11/27/2024 5:30:45 AM                         |
|--------------------------|--------------------------------------------------|-------------------|-----------------------------------------------|
| Supervise By             | mohammad                                         | Supervise On      | 11/27/2024 6:04:55 AM                         |
| SubDirectory             | BN112524                                         | HP Acquire Method | BNA_N, 8270_SiM HP Processing Method bn112524 |
| STD. NAME                | STD REF.#                                        |                   |                                               |
| Tune/Reschk              | SP6573                                           |                   |                                               |
| Initial Calibration Stds | SP6663,SP6662,SP6661,SP6660,SP6659,SP6658,SP6657 |                   |                                               |
| CCC                      | SP6661                                           |                   |                                               |
| Internal Standard/PEM    | SP6527,1ul/100ul sample                          |                   |                                               |
| ICV/I.BLK                | SP6548                                           |                   |                                               |
| Surrogate Standard       |                                                  |                   |                                               |
| MS/MSD Standard          |                                                  |                   |                                               |
| LCS Standard             |                                                  |                   |                                               |

|    |            |            |                   |       |       |
|----|------------|------------|-------------------|-------|-------|
| 22 | P4959-01   | BN035297.D | 26 Nov 2024 01:26 | RC/JU | ReRun |
| 23 | P4959-02   | BN035298.D | 26 Nov 2024 02:02 | RC/JU | Ok,M  |
| 24 | P4959-03   | BN035299.D | 26 Nov 2024 02:38 | RC/JU | Ok,M  |
| 25 | SSTDCCC0.4 | BN035300.D | 26 Nov 2024 03:14 | RC/JU | Ok,M  |

M : Manual Integration

Instrument ID: **BNA\_N**

**Daily Analysis Runlog For Sequence/QC Batch ID # BN112724**

|                          |                                                  |                   |                                               |
|--------------------------|--------------------------------------------------|-------------------|-----------------------------------------------|
| Review By                | yogesh                                           | Review On         | 11/29/2024 12:48:33 AM                        |
| Supervise By             | mohammad                                         | Supervise On      | 12/3/2024 12:32:57 AM                         |
| SubDirectory             | BN112724                                         | HP Acquire Method | BNA_N, 8270_SiM HP Processing Method bn112724 |
| <b>STD. NAME</b>         | <b>STD REF.#</b>                                 |                   |                                               |
| Tune/Reschk              | SP6573                                           |                   |                                               |
| Initial Calibration Stds | SP6663,SP6662,SP6661,SP6660,SP6659,SP6658,SP6657 |                   |                                               |
| CCC                      | SP6661                                           |                   |                                               |
| Internal Standard/PEM    | SP6527,1ul/100ul sample                          |                   |                                               |
| ICV/I.BLK                | SP6684                                           |                   |                                               |
| Surrogate Standard       |                                                  |                   |                                               |
| MS/MSD Standard          |                                                  |                   |                                               |
| LCS Standard             |                                                  |                   |                                               |

| Sr# | SampleId    | Data File Name | Date-Time         | Operator | Status |
|-----|-------------|----------------|-------------------|----------|--------|
| 1   | DFTPP       | BN035349.D     | 27 Nov 2024 14:55 | RC/JU    | Ok     |
| 2   | SSTDICC0.1  | BN035350.D     | 27 Nov 2024 15:34 | RC/JU    | Ok,M   |
| 3   | SSTDICC0.2  | BN035351.D     | 27 Nov 2024 16:10 | RC/JU    | Ok,M   |
| 4   | SSTDICCC0.4 | BN035352.D     | 27 Nov 2024 16:46 | RC/JU    | Ok,M   |
| 5   | SSTDICC0.8  | BN035353.D     | 27 Nov 2024 17:21 | RC/JU    | Ok     |
| 6   | SSTDICC1.6  | BN035354.D     | 27 Nov 2024 17:57 | RC/JU    | Ok     |
| 7   | SSTDICC3.2  | BN035355.D     | 27 Nov 2024 18:33 | RC/JU    | Ok     |
| 8   | SSTDICC5.0  | BN035356.D     | 27 Nov 2024 19:09 | RC/JU    | Ok     |
| 9   | SSTDICV0.4  | BN035357.D     | 27 Nov 2024 20:21 | RC/JU    | Ok,M   |
| 10  | PB165224BL  | BN035358.D     | 27 Nov 2024 20:57 | RC/JU    | Ok,M   |
| 11  | PB165266BL  | BN035359.D     | 27 Nov 2024 21:32 | RC/JU    | Ok,M   |
| 12  | PB165224BS  | BN035360.D     | 27 Nov 2024 22:08 | RC/JU    | Ok,M   |
| 13  | PB165224BSD | BN035361.D     | 27 Nov 2024 22:44 | RC/JU    | Ok,M   |
| 14  | P4969-02    | BN035362.D     | 27 Nov 2024 23:20 | RC/JU    | Ok,M   |
| 15  | P4969-04    | BN035363.D     | 27 Nov 2024 23:56 | RC/JU    | Ok,M   |
| 16  | P5003-02    | BN035364.D     | 28 Nov 2024 00:32 | RC/JU    | Ok,M   |
| 17  | P5003-03    | BN035365.D     | 28 Nov 2024 01:08 | RC/JU    | Ok,M   |
| 18  | SSTDCCC0.4  | BN035366.D     | 28 Nov 2024 02:20 | RC/JU    | Ok,M   |
| 19  | DFTPP       | BN035367.D     | 28 Nov 2024 03:35 | RC/JU    | Ok     |
| 20  | SSTDCCC0.4  | BN035368.D     | 28 Nov 2024 04:51 | RC/JU    | Ok,M   |
| 21  | PB165198BL  | BN035369.D     | 28 Nov 2024 05:27 | RC/JU    | Ok,M   |

Instrument ID: **BNA\_N**

**Daily Analysis Runlog For Sequence/QC Batch ID # BN112724**

| Review By                | yogesh                                           | Review On         | 11/29/2024 12:48:33 AM                        |
|--------------------------|--------------------------------------------------|-------------------|-----------------------------------------------|
| Supervise By             | mohammad                                         | Supervise On      | 12/3/2024 12:32:57 AM                         |
| SubDirectory             | BN112724                                         | HP Acquire Method | BNA_N, 8270_SiM HP Processing Method bn112724 |
| STD. NAME                | STD REF.#                                        |                   |                                               |
| Tune/Reschk              | SP6573                                           |                   |                                               |
| Initial Calibration Stds | SP6663,SP6662,SP6661,SP6660,SP6659,SP6658,SP6657 |                   |                                               |
| CCC                      | SP6661                                           |                   |                                               |
| Internal Standard/PEM    | SP6527,1ul/100ul sample                          |                   |                                               |
| ICV/I.BLK                | SP6684                                           |                   |                                               |
| Surrogate Standard       |                                                  |                   |                                               |
| MS/MSD Standard          |                                                  |                   |                                               |
| LCS Standard             |                                                  |                   |                                               |

|    |             |            |                   |       |      |
|----|-------------|------------|-------------------|-------|------|
| 22 | PB165198BS  | BN035370.D | 28 Nov 2024 06:03 | RC/JU | Ok,M |
| 23 | PB165198BSD | BN035371.D | 28 Nov 2024 06:39 | RC/JU | Ok,M |
| 24 | PB165266BS  | BN035372.D | 28 Nov 2024 07:15 | RC/JU | Ok,M |
| 25 | PB165266BSD | BN035373.D | 28 Nov 2024 07:50 | RC/JU | Ok,M |
| 26 | P4959-01    | BN035374.D | 28 Nov 2024 08:26 | RC/JU | Ok,M |
| 27 | SSTDCCC0.4  | BN035375.D | 28 Nov 2024 09:02 | RC/JU | Ok,M |

M : Manual Integration

Instrument ID: BNA\_N

**Daily Analysis Runlog For Sequence/QC Batch ID # BN112524**

|              |          |                   |                                           |
|--------------|----------|-------------------|-------------------------------------------|
| Review By    | yogesh   | Review On         | 11/27/2024 5:30:45 AM                     |
| Supervise By | mohammad | Supervise On      | 11/27/2024 6:04:55 AM                     |
| SubDirectory | BN112524 | HP Acquire Method | BNA_N, 8270_HP Processing Method bn112524 |

| STD. NAME                                                                                          | STD REF.#                                                  |
|----------------------------------------------------------------------------------------------------|------------------------------------------------------------|
| Tune/Reschk<br>Initial Calibration Stds                                                            | SP6573<br>SP6663,SP6662,SP6661,SP6660,SP6659,SP6658,SP6657 |
| CCC<br>Internal Standard/PEM<br>ICV/I.BLK<br>Surrogate Standard<br>MS/MSD Standard<br>LCS Standard | SP6661<br>SP6527,1ul/100ul sample<br>SP6548                |

| Sr# | SampleID    | ClientID           | Data File Name | Date-Time         | Comment                                                  | Operator | Status |
|-----|-------------|--------------------|----------------|-------------------|----------------------------------------------------------|----------|--------|
| 1   | DFTPP       | DFTPP              | BN035276.D     | 25 Nov 2024 09:37 |                                                          | RC/JU    | Ok     |
| 2   | SSTDICC0.1  | SSTDICC0.1         | BN035277.D     | 25 Nov 2024 10:16 | Compound #3,20,24,34 removed from 0.1ppm                 | RC/JU    | Ok,M   |
| 3   | SSTDICC0.2  | SSTDICC0.2         | BN035278.D     | 25 Nov 2024 10:52 | Compound #20 Kept on LR                                  | RC/JU    | Ok,M   |
| 4   | SSTDICCC0.4 | SSTDICCC0.4        | BN035279.D     | 25 Nov 2024 11:28 | This calibration is used for Only 1-4 Dioxane DOD Sample | RC/JU    | Ok     |
| 5   | SSTDICC0.8  | SSTDICC0.8         | BN035280.D     | 25 Nov 2024 12:04 |                                                          | RC/JU    | Ok     |
| 6   | SSTDICC1.6  | SSTDICC1.6         | BN035281.D     | 25 Nov 2024 12:40 |                                                          | RC/JU    | Ok     |
| 7   | SSTDICC3.2  | SSTDICC3.2         | BN035282.D     | 25 Nov 2024 13:16 |                                                          | RC/JU    | Ok     |
| 8   | SSTDICC5.0  | SSTDICC5.0         | BN035283.D     | 25 Nov 2024 13:52 | Compound #20,24,30,34 removed from 5.0ppm                | RC/JU    | Ok     |
| 9   | SSTDICV0.4  | ICVBN112524        | BN035284.D     | 25 Nov 2024 14:29 |                                                          | RC/JU    | Ok,M   |
| 10  | PB165150BL  | PB165150BL         | BN035285.D     | 25 Nov 2024 15:44 |                                                          | RC/JU    | Ok,M   |
| 11  | P4934-02    | BPOW6-11-20241118  | BN035286.D     | 25 Nov 2024 16:20 |                                                          | RC/JU    | Ok     |
| 12  | P4934-05    | BPOW6-10-20241119  | BN035287.D     | 25 Nov 2024 16:56 |                                                          | RC/JU    | Ok,M   |
| 13  | P4934-06MS  | BPOW6-10-20241119M | BN035288.D     | 25 Nov 2024 17:32 |                                                          | RC/JU    | Ok,M   |
| 14  | P4934-07MSD | BPOW6-10-20241119M | BN035289.D     | 25 Nov 2024 18:08 |                                                          | RC/JU    | Ok,M   |
| 15  | PB165150BS  | PB165150BS         | BN035290.D     | 25 Nov 2024 18:44 |                                                          | RC/JU    | Ok,M   |
| 16  | SSTDCCC0.4  | SSTDCCC0.4EC       | BN035291.D     | 25 Nov 2024 19:20 |                                                          | RC/JU    | Ok,M   |
| 17  | DFTPP       | DFTPP              | BN035292.D     | 25 Nov 2024 20:35 |                                                          | RC/JU    | Ok     |



Instrument ID: BNA\_N

**Daily Analysis Runlog For Sequence/QC Batch ID # BN112524**

|                          |                                                  |                   |                                           |
|--------------------------|--------------------------------------------------|-------------------|-------------------------------------------|
| Review By                | yogesh                                           | Review On         | 11/27/2024 5:30:45 AM                     |
| Supervise By             | mohammad                                         | Supervise On      | 11/27/2024 6:04:55 AM                     |
| SubDirectory             | BN112524                                         | HP Acquire Method | BNA_N, 8270_HP Processing Method bn112524 |
| <b>STD. NAME</b>         | <b>STD REF.#</b>                                 |                   |                                           |
| Tune/Reschk              | SP6573                                           |                   |                                           |
| Initial Calibration Stds | SP6663,SP6662,SP6661,SP6660,SP6659,SP6658,SP6657 |                   |                                           |
| CCC                      | SP6661                                           |                   |                                           |
| Internal Standard/PEM    | SP6527,1ul/100ul sample                          |                   |                                           |
| ICV/I.BLK                | SP6548                                           |                   |                                           |
| Surrogate Standard       |                                                  |                   |                                           |
| MS/MSD Standard          |                                                  |                   |                                           |
| LCS Standard             |                                                  |                   |                                           |

|    |             |                    |            |                   |                                                      |       |        |
|----|-------------|--------------------|------------|-------------------|------------------------------------------------------|-------|--------|
| 18 | SSTDCCC0.4  | SSTDCCC0.4         | BN035293.D | 25 Nov 2024 23:02 | CCC Fail high side for compound #2                   | RC/JU | Ok,M   |
| 19 | PB165198BL  | PB165198BL         | BN035294.D | 25 Nov 2024 23:38 |                                                      | RC/JU | Ok,M   |
| 20 | PB165198BS  | PB165198BS         | BN035295.D | 26 Nov 2024 00:14 | CCC fail high side for compound #2                   | RC/JU | Not Ok |
| 21 | PB165198BSD | PB165198BSD        | BN035296.D | 26 Nov 2024 00:50 | CCC fail high side for compound #2                   | RC/JU | Not Ok |
| 22 | P4959-01    | RW5-SP100-20241121 | BN035297.D | 26 Nov 2024 01:26 | Need 5X Dilution, CCC fail high side for compound #2 | RC/JU | ReRun  |
| 23 | P4959-02    | RW5-SP201-20241121 | BN035298.D | 26 Nov 2024 02:02 |                                                      | RC/JU | Ok,M   |
| 24 | P4959-03    | RW5-SP303-20241121 | BN035299.D | 26 Nov 2024 02:38 |                                                      | RC/JU | Ok,M   |
| 25 | SSTDCCC0.4  | SSTDCCC0.4EC       | BN035300.D | 26 Nov 2024 03:14 |                                                      | RC/JU | Ok,M   |

M : Manual Integration

Instrument ID: BNA\_N

**Daily Analysis Runlog For Sequence/QC Batch ID # BN112724**

|                          |                                                  |                   |                                           |
|--------------------------|--------------------------------------------------|-------------------|-------------------------------------------|
| Review By                | yogesh                                           | Review On         | 11/29/2024 12:48:33 AM                    |
| Supervise By             | mohammad                                         | Supervise On      | 12/3/2024 12:32:57 AM                     |
| SubDirectory             | BN112724                                         | HP Acquire Method | BNA_N, 8270_HP Processing Method bn112724 |
| <b>STD. NAME</b>         | <b>STD REF.#</b>                                 |                   |                                           |
| Tune/Reschk              | SP6573                                           |                   |                                           |
| Initial Calibration Stds | SP6663,SP6662,SP6661,SP6660,SP6659,SP6658,SP6657 |                   |                                           |
| CCC                      | SP6661                                           |                   |                                           |
| Internal Standard/PEM    | SP6527,1ul/100ul sample                          |                   |                                           |
| ICV/I.BLK                | SP6684                                           |                   |                                           |
| Surrogate Standard       |                                                  |                   |                                           |
| MS/MSD Standard          |                                                  |                   |                                           |
| LCS Standard             |                                                  |                   |                                           |

| Sr# | SampleID    | ClientID           | Data File Name | Date-Time         | Comment                          | Operator | Status |
|-----|-------------|--------------------|----------------|-------------------|----------------------------------|----------|--------|
| 1   | DFTPP       | DFTPP              | BN035349.D     | 27 Nov 2024 14:55 |                                  | RC/JU    | Ok     |
| 2   | SSTDICC0.1  | SSTDICC0.1         | BN035350.D     | 27 Nov 2024 15:34 |                                  | RC/JU    | Ok,M   |
| 3   | SSTDICC0.2  | SSTDICC0.2         | BN035351.D     | 27 Nov 2024 16:10 |                                  | RC/JU    | Ok,M   |
| 4   | SSTDICCC0.4 | SSTDICCC0.4        | BN035352.D     | 27 Nov 2024 16:46 | This Calibration is Good For DOD | RC/JU    | Ok,M   |
| 5   | SSTDICC0.8  | SSTDICC0.8         | BN035353.D     | 27 Nov 2024 17:21 |                                  | RC/JU    | Ok     |
| 6   | SSTDICC1.6  | SSTDICC1.6         | BN035354.D     | 27 Nov 2024 17:57 |                                  | RC/JU    | Ok     |
| 7   | SSTDICC3.2  | SSTDICC3.2         | BN035355.D     | 27 Nov 2024 18:33 | Compound #20 removed from 3.2ppm | RC/JU    | Ok     |
| 8   | SSTDICC5.0  | SSTDICC5.0         | BN035356.D     | 27 Nov 2024 19:09 | Compound #20 removed from 5.0ppm | RC/JU    | Ok     |
| 9   | SSTDICV0.4  | ICVBN112724        | BN035357.D     | 27 Nov 2024 20:21 |                                  | RC/JU    | Ok,M   |
| 10  | PB165224BL  | PB165224BL         | BN035358.D     | 27 Nov 2024 20:57 |                                  | RC/JU    | Ok,M   |
| 11  | PB165266BL  | PB165266BL         | BN035359.D     | 27 Nov 2024 21:32 |                                  | RC/JU    | Ok,M   |
| 12  | PB165224BS  | PB165224BS         | BN035360.D     | 27 Nov 2024 22:08 |                                  | RC/JU    | Ok,M   |
| 13  | PB165224BSD | PB165224BSD        | BN035361.D     | 27 Nov 2024 22:44 |                                  | RC/JU    | Ok,M   |
| 14  | P4969-02    | TOWER-1            | BN035362.D     | 27 Nov 2024 23:20 |                                  | RC/JU    | Ok,M   |
| 15  | P4969-04    | TOWER-2            | BN035363.D     | 27 Nov 2024 23:56 |                                  | RC/JU    | Ok,M   |
| 16  | P5003-02    | RW-10A-HYD-2024112 | BN035364.D     | 28 Nov 2024 00:32 |                                  | RC/JU    | Ok,M   |
| 17  | P5003-03    | RW-10A-HYD-2024112 | BN035365.D     | 28 Nov 2024 01:08 |                                  | RC/JU    | Ok,M   |

Instrument ID: BNA\_N

**Daily Analysis Runlog For Sequence/QC Batch ID # BN112724**

|              |          |                   |                                           |
|--------------|----------|-------------------|-------------------------------------------|
| Review By    | yogesh   | Review On         | 11/29/2024 12:48:33 AM                    |
| Supervise By | mohammad | Supervise On      | 12/3/2024 12:32:57 AM                     |
| SubDirectory | BN112724 | HP Acquire Method | BNA_N, 8270_HP Processing Method bn112724 |

| STD. NAME                                                                                          | STD REF.#                                                  |
|----------------------------------------------------------------------------------------------------|------------------------------------------------------------|
| Tune/Reschk<br>Initial Calibration Stds                                                            | SP6573<br>SP6663,SP6662,SP6661,SP6660,SP6659,SP6658,SP6657 |
| CCC<br>Internal Standard/PEM<br>ICV/I.BLK<br>Surrogate Standard<br>MS/MSD Standard<br>LCS Standard | SP6661<br>SP6527,1ul/100ul sample<br>SP6684                |

|    |             |                    |            |                   |  |       |      |
|----|-------------|--------------------|------------|-------------------|--|-------|------|
| 18 | SSTDCCC0.4  | SSTDCCC0.4EC       | BN035366.D | 28 Nov 2024 02:20 |  | RC/JU | Ok,M |
| 19 | DFTPP       | DFTPP              | BN035367.D | 28 Nov 2024 03:35 |  | RC/JU | Ok   |
| 20 | SSTDCCC0.4  | SSTDCCC0.4         | BN035368.D | 28 Nov 2024 04:51 |  | RC/JU | Ok,M |
| 21 | PB165198BL  | PB165198BL         | BN035369.D | 28 Nov 2024 05:27 |  | RC/JU | Ok,M |
| 22 | PB165198BS  | PB165198BS         | BN035370.D | 28 Nov 2024 06:03 |  | RC/JU | Ok,M |
| 23 | PB165198BSD | PB165198BSD        | BN035371.D | 28 Nov 2024 06:39 |  | RC/JU | Ok,M |
| 24 | PB165266BS  | PB165266BS         | BN035372.D | 28 Nov 2024 07:15 |  | RC/JU | Ok,M |
| 25 | PB165266BSD | PB165266BSD        | BN035373.D | 28 Nov 2024 07:50 |  | RC/JU | Ok,M |
| 26 | P4959-01    | RW5-SP100-20241121 | BN035374.D | 28 Nov 2024 08:26 |  | RC/JU | Ok,M |
| 27 | SSTDCCC0.4  | SSTDCCC0.4EC       | BN035375.D | 28 Nov 2024 09:02 |  | RC/JU | Ok,M |

M : Manual Integration

## Prep Standard - Chemical Standard Summary

**Order ID :** P4959

**Test :** SVOC-SIMGroup1

**Prepbatch ID :** PB165198,

**Sequence ID/Qc Batch ID:** BN112524,BN112724,

**Standard ID :**

EP2559,EP2562,EP2565,SP6527,SP6547,SP6548,SP6573,SP6606,SP6629,SP6656,SP6657,SP6658,SP6659,SP6660,SP6661,SP6662,SP6663,SP6666,SP6682,SP6683,SP6684,

**Chemical ID :**

1ul/100ul

sample,E3551,E3657,E3746,E3759,E3768,E3788,E3791,E3817,E3818,E3828,M5173,S10103,S10247,S10782,S10977,S11003,S11011,S11074,S11097,S11494,S11566,S11766,S11771,S11831,S12029,S12077,S12079,S12096,S12105,S12113,S12117,S12126,S12142,S12189,S12207,S12208,S12314,S12328,S12453,S12469,S12517,W3112,



| <u>Recipe ID</u> | <u>NAME</u>                                                                  | <u>NO.</u>             | <u>Prep Date</u> | <u>Expiration Date</u> | <u>Prepared By</u> | <u>ScaleID</u>                      | <u>PipetteID</u> | <u>Supervised By</u>              |
|------------------|------------------------------------------------------------------------------|------------------------|------------------|------------------------|--------------------|-------------------------------------|------------------|-----------------------------------|
| 1874             | 10 N SODIUM HYDROXIDE SOLN                                                   | <a href="#">EP2559</a> | 11/14/2024       | 05/14/2025             | Rajesh Parikh      | Extraction_SC<br>ALE_2<br>(EX-SC-2) | None             | RUPESHKUMAR<br>SHAH<br>11/14/2024 |
| <u>FROM</u>      | 1000.00000ml of W3112 + 400.00000gram of E3657 = Final Quantity: 1000.000 ml |                        |                  |                        |                    |                                     |                  |                                   |

| <u>Recipe ID</u>                                                           | <u>NAME</u>          | <u>NO.</u>             | <u>Prep Date</u> | <u>Expiration Date</u> | <u>Prepared By</u> | <u>ScaleID</u>                      | <u>PipetteID</u> | <u>Supervised By</u>              |
|----------------------------------------------------------------------------|----------------------|------------------------|------------------|------------------------|--------------------|-------------------------------------|------------------|-----------------------------------|
| 3923                                                                       | Baked Sodium Sulfate | <a href="#">EP2562</a> | 11/14/2024       | 01/03/2025             | Rajesh Parikh      | Extraction_SC<br>ALE_2<br>(EX-SC-2) | None             | RUPESHKUMAR<br>SHAH<br>11/14/2024 |
| <b><u>FROM</u></b> 4000.00000gram of E3551 = Final Quantity: 4000.000 gram |                      |                        |                  |                        |                    |                                     |                  |                                   |

## Extractions STANDARD PREPARATION LOG

| <u>Recipe ID</u> | <u>NAME</u>    | <u>NO.</u>             | <u>Prep Date</u> | <u>Expiration Date</u> | <u>Prepared By</u> | <u>ScaleID</u> | <u>PipetteID</u> | <u>Supervised By</u>              |
|------------------|----------------|------------------------|------------------|------------------------|--------------------|----------------|------------------|-----------------------------------|
| 314              | 1.1 H2SO4 SOLN | <a href="#">EP2565</a> | 11/20/2024       | 05/20/2025             | Rajesh Parikh      | None           | None             | RUPESHKUMAR<br>SHAH<br>11/20/2024 |

**FROM** 1000.00000ml of M5173 + 1000.00000ml of W3112 = Final Quantity: 2000.000 ml

| <u>Recipe ID</u> | <u>NAME</u>               | <u>NO.</u>             | <u>Prep Date</u> | <u>Expiration Date</u> | <u>Prepared By</u> | <u>ScaleID</u> | <u>PipetteID</u> | <u>Supervised By</u>         |
|------------------|---------------------------|------------------------|------------------|------------------------|--------------------|----------------|------------------|------------------------------|
| 3493             | Internal Standard 0.4 PPM | <a href="#">SP6527</a> | 06/10/2024       | 12/05/2024             | Jagrut Upadhyay    | None           | None             | mohammad ahmed<br>07/05/2024 |

**FROM** 0.10000ml of S12029 + 4.90000ml of E3759 = Final Quantity: 5.000 ml



| <u>Recipe ID</u>                                                                                                                                                                                                           | <u>NAME</u>                                       | <u>NO.</u>             | <u>Prep Date</u> | <u>Expiration Date</u> | <u>Prepared By</u> | <u>ScaleID</u> | <u>PipetteID</u> | <u>Supervised By</u> |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------|------------------------|------------------|------------------------|--------------------|----------------|------------------|----------------------|
| 3355                                                                                                                                                                                                                       | 8270-SIM MDL-3.2PPM<br>CALIBRATION STOCK SOL- 2ND | <a href="#">SP6547</a> | 07/08/2024       | 11/21/2024             | Jagrut Upadhyay    | None           | None             | mohammad ahmed       |
| <b>SOURCE</b><br>0.00630ml of S10977 + 0.01280ml of S11003 + 0.03200ml of S10782 + 0.03200ml of S11766 + 0.06400ml of S11566 + 0.06400ml of S12096 + 0.06400ml of S12117 + 19.72490ml of E3746 = Final Quantity: 20.000 ml |                                                   |                        |                  |                        |                    |                |                  |                      |
| <b>FROM</b><br>0.00630ml of S10977 + 0.01280ml of S11003 + 0.03200ml of S10782 + 0.03200ml of S11766 + 0.06400ml of S11566 + 0.06400ml of S12096 + 0.06400ml of S12117 + 19.72490ml of E3746 = Final Quantity: 20.000 ml   |                                                   |                        |                  |                        |                    |                |                  |                      |

| <u>Recipe ID</u>                                                                                                       | <u>NAME</u>                                    | <u>NO.</u>             | <u>Prep Date</u> | <u>Expiration Date</u> | <u>Prepared By</u> | <u>ScaleID</u> | <u>PipetteID</u> | <u>Supervised By</u>         |
|------------------------------------------------------------------------------------------------------------------------|------------------------------------------------|------------------------|------------------|------------------------|--------------------|----------------|------------------|------------------------------|
| 3356                                                                                                                   | 8270-SIM MDL-0.4PPM<br>CALIBRATION SOL ICV-2ND | <a href="#">SP6548</a> | 07/08/2024       | 11/21/2024             | Jagrut Upadhyay    | None           | None             | mohammad ahmed<br>07/08/2024 |
| <b>SOURCE</b><br><b>FROM</b> 0.87500ml of E3746 + 0.01000ml of SP6527 + 0.12500ml of SP6547 = Final Quantity: 1.010 ml |                                                |                        |                  |                        |                    |                |                  |                              |

## SVOC STANDARD PREPARATION LOG

| <u>Recipe ID</u> | <u>NAME</u>          | <u>NO.</u>             | <u>Prep Date</u> | <u>Expiration Date</u> | <u>Prepared By</u> | <u>ScaleID</u> | <u>PipetteID</u> | <u>Supervised By</u> |
|------------------|----------------------|------------------------|------------------|------------------------|--------------------|----------------|------------------|----------------------|
| 3895             | 50 ug/ml DFTPP 8270E | <a href="#">SP6573</a> | 07/15/2024       | 01/08/2025             | Rahul Chavli       | None           | None             | Yogesh Patel         |
|                  |                      |                        |                  |                        |                    |                |                  | 07/17/2024           |

**FROM** 1.00000ml of S10247 + 19.00000ml of E3768 = Final Quantity: 20.000 ml

| <u>Recipe ID</u> | <u>NAME</u>            | <u>NO.</u>             | <u>Prep Date</u> | <u>Expiration Date</u> | <u>Prepared By</u> | <u>ScaleID</u> | <u>PipetteID</u> | <u>Supervised By</u> |
|------------------|------------------------|------------------------|------------------|------------------------|--------------------|----------------|------------------|----------------------|
| 3492             | 8270-SIM-Spike 0.4 PPM | <a href="#">SP6606</a> | 08/20/2024       | 02/12/2025             | Rahul Chavli       | None           | None             | mohammad ahmed       |
|                  |                        |                        |                  |                        |                    |                |                  | 08/21/2024           |

**FROM** 0.00160ml of S11011 + 0.02000ml of S11771 + 0.04000ml of S12105 + 0.04000ml of S12126 + 0.04000ml of S12453 +  
99.85840ml of E3788 = Final Quantity: 100.000 ml



## SVOC STANDARD PREPARATION LOG

| <u>Recipe ID</u> | <u>NAME</u>               | <u>NO.</u>             | <u>Prep Date</u> | <u>Expiration Date</u> | <u>Prepared By</u> | <u>ScaleID</u> | <u>PipetteID</u> | <u>Supervised By</u> |
|------------------|---------------------------|------------------------|------------------|------------------------|--------------------|----------------|------------------|----------------------|
| 3493             | Internal Standard 0.4 PPM | <a href="#">SP6629</a> | 09/12/2024       | 03/04/2025             | Jagrut Upadhyay    | None           | None             | Yogesh Patel         |
|                  |                           |                        |                  |                        |                    |                |                  | 10/14/2024           |

**FROM** 0.10000ml of S12314 + 4.90000ml of E3791 = Final Quantity: 5.000 ml

| <u>Recipe ID</u> | <u>NAME</u>                            | <u>NO.</u>             | <u>Prep Date</u> | <u>Expiration Date</u> | <u>Prepared By</u> | <u>ScaleID</u> | <u>PipetteID</u> | <u>Supervised By</u> |
|------------------|----------------------------------------|------------------------|------------------|------------------------|--------------------|----------------|------------------|----------------------|
| 3339             | 8270 sim calibration stock 10ppm (CPI) | <a href="#">SP6656</a> | 10/24/2024       | 02/08/2025             | Jagrut Upadhyay    | None           | None             | Yogesh Patel         |
|                  |                                        |                        |                  |                        |                    |                |                  | 11/28/2024           |

**FROM** 0.03350ml of S10103 + 0.05000ml of S11494 + 0.05000ml of S12079 + 0.12500ml of S11831 + 0.12500ml of S12113 + 0.20000ml of S12077 + 0.25000ml of S11097 + 24.16650ml of E3817 = Final Quantity: 25.000 ml

## SVOC STANDARD PREPARATION LOG

| <u>Recipe ID</u> | <u>NAME</u>                            | <u>NO.</u>             | <u>Prep Date</u> | <u>Expiration Date</u> | <u>Prepared By</u> | <u>ScaleID</u> | <u>PipetteID</u> | <u>Supervised By</u> |
|------------------|----------------------------------------|------------------------|------------------|------------------------|--------------------|----------------|------------------|----------------------|
| 3361             | 8270-SIM MDL-5PPM CALIBRATION SOLUTION | <a href="#">SP6657</a> | 10/24/2024       | 02/08/2025             | Jagrut Upadhyay    | None           | None             | Yogesh Patel         |
|                  |                                        |                        |                  |                        |                    |                |                  | 11/28/2024           |

**FROM** 0.50000ml of E3817 + 0.01000ml of SP6629 + 0.50000ml of SP6656 = Final Quantity: 1.010 ml

| <u>Recipe ID</u> | <u>NAME</u>                              | <u>NO.</u>             | <u>Prep Date</u> | <u>Expiration Date</u> | <u>Prepared By</u> | <u>ScaleID</u> | <u>PipetteID</u> | <u>Supervised By</u> |
|------------------|------------------------------------------|------------------------|------------------|------------------------|--------------------|----------------|------------------|----------------------|
| 3341             | 8270-SIM MDL-3.2PPM CALIBRATION SOLUTION | <a href="#">SP6658</a> | 10/24/2024       | 02/08/2025             | Jagrut Upadhyay    | None           | None             | Yogesh Patel         |
|                  |                                          |                        |                  |                        |                    |                |                  | 11/28/2024           |

**FROM** 0.68000ml of E3817 + 0.01000ml of SP6629 + 0.32000ml of SP6656 = Final Quantity: 1.010 ml

## SVOC STANDARD PREPARATION LOG

| <u>Recipe ID</u> | <u>NAME</u>                              | <u>NO.</u>             | <u>Prep Date</u> | <u>Expiration Date</u> | <u>Prepared By</u> | <u>ScaleID</u> | <u>PipetteID</u> | <u>Supervised By</u> |
|------------------|------------------------------------------|------------------------|------------------|------------------------|--------------------|----------------|------------------|----------------------|
| 3344             | 8270-SIM MDL-1.6PPM CALIBRATION SOLUTION | <a href="#">SP6659</a> | 10/24/2024       | 02/08/2025             | Jagrut Upadhyay    | None           | None             | Yogesh Patel         |
|                  |                                          |                        |                  |                        |                    |                |                  | 11/28/2024           |

**FROM** 0.84000ml of E3817 + 0.01000ml of SP6629 + 0.16000ml of SP6656 = Final Quantity: 1.010 ml

| <u>Recipe ID</u> | <u>NAME</u>                              | <u>NO.</u>             | <u>Prep Date</u> | <u>Expiration Date</u> | <u>Prepared By</u> | <u>ScaleID</u> | <u>PipetteID</u> | <u>Supervised By</u> |
|------------------|------------------------------------------|------------------------|------------------|------------------------|--------------------|----------------|------------------|----------------------|
| 3342             | 8270-SIM MDL-0.8PPM CALIBRATION SOLUTION | <a href="#">SP6660</a> | 10/24/2024       | 02/08/2025             | Jagrut Upadhyay    | None           | None             | Yogesh Patel         |
|                  |                                          |                        |                  |                        |                    |                |                  | 11/28/2024           |

**FROM** 0.92000ml of E3817 + 0.01000ml of SP6629 + 0.08000ml of SP6656 = Final Quantity: 1.010 ml

## SVOC STANDARD PREPARATION LOG

| <u>Recipe ID</u> | <u>NAME</u>                              | <u>NO.</u>             | <u>Prep Date</u> | <u>Expiration Date</u> | <u>Prepared By</u> | <u>ScaleID</u> | <u>PipetteID</u> | <u>Supervised By</u> |
|------------------|------------------------------------------|------------------------|------------------|------------------------|--------------------|----------------|------------------|----------------------|
| 3343             | 8270-SIM MDL-0.4PPM CALIBRATION SOLUTION | <a href="#">SP6661</a> | 10/24/2024       | 02/08/2025             | Jagrut Upadhyay    | None           | None             | Yogesh Patel         |
|                  |                                          |                        |                  |                        |                    |                |                  | 11/28/2024           |

**FROM** 0.96000ml of E3817 + 0.01000ml of SP6629 + 0.04000ml of SP6656 = Final Quantity: 1.010 ml

| <u>Recipe ID</u> | <u>NAME</u>                              | <u>NO.</u>             | <u>Prep Date</u> | <u>Expiration Date</u> | <u>Prepared By</u> | <u>ScaleID</u> | <u>PipetteID</u> | <u>Supervised By</u> |
|------------------|------------------------------------------|------------------------|------------------|------------------------|--------------------|----------------|------------------|----------------------|
| 3345             | 8270-SIM MDL-0.2PPM CALIBRATION SOLUTION | <a href="#">SP6662</a> | 10/24/2024       | 02/08/2025             | Jagrut Upadhyay    | None           | None             | Yogesh Patel         |
|                  |                                          |                        |                  |                        |                    |                |                  | 11/28/2024           |

**FROM** 0.50000ml of E3817 + 0.01000ml of SP6629 + 0.50000ml of SP6661 = Final Quantity: 1.010 ml

## SVOC STANDARD PREPARATION LOG

| <u>Recipe ID</u> | <u>NAME</u>                              | <u>NO.</u>             | <u>Prep Date</u> | <u>Expiration Date</u> | <u>Prepared By</u> | <u>ScaleID</u> | <u>PipetteID</u> | <u>Supervised By</u> |
|------------------|------------------------------------------|------------------------|------------------|------------------------|--------------------|----------------|------------------|----------------------|
| 3346             | 8270-SIM MDL-0.1PPM CALIBRATION SOLUTION | <a href="#">SP6663</a> | 10/24/2024       | 02/08/2025             | Jagrut Upadhyay    | None           | None             | Yogesh Patel         |
|                  |                                          |                        |                  |                        |                    |                |                  | 11/28/2024           |

**FROM** 0.75000ml of E3817 + 0.01000ml of SP6629 + 0.25000ml of SP6661 = Final Quantity: 1.010 ml

| <u>Recipe ID</u> | <u>NAME</u>                | <u>NO.</u>             | <u>Prep Date</u> | <u>Expiration Date</u> | <u>Prepared By</u> | <u>ScaleID</u> | <u>PipetteID</u> | <u>Supervised By</u> |
|------------------|----------------------------|------------------------|------------------|------------------------|--------------------|----------------|------------------|----------------------|
| 3491             | 8270-SIM-Surrogate 0.4 PPM | <a href="#">SP6666</a> | 10/29/2024       | 04/10/2025             | Jagrut Upadhyay    | None           | None             | Yogesh Patel         |
|                  |                            |                        |                  |                        |                    |                |                  | 11/28/2024           |

**FROM** 0.00800ml of S12189 + 0.01600ml of S12207 + 0.04000ml of S11831 + 199.93600ml of E3818 = Final Quantity: 200.000 ml

## SVOC STANDARD PREPARATION LOG

| <u>Recipe ID</u> | <u>NAME</u>               | <u>NO.</u>             | <u>Prep Date</u> | <u>Expiration Date</u> | <u>Prepared By</u> | <u>ScaleID</u> | <u>PipetteID</u> | <u>Supervised By</u> |
|------------------|---------------------------|------------------------|------------------|------------------------|--------------------|----------------|------------------|----------------------|
| 3493             | Internal Standard 0.4 PPM | <a href="#">SP6682</a> | 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

| <u>Recipe ID</u> | <u>NAME</u>                                       | <u>NO.</u>             | <u>Prep Date</u> | <u>Expiration Date</u> | <u>Prepared By</u> | <u>ScaleID</u> | <u>PipetteID</u> | <u>Supervised By</u> |
|------------------|---------------------------------------------------|------------------------|------------------|------------------------|--------------------|----------------|------------------|----------------------|
| 3355             | 8270-SIM MDL-3.2PPM<br>CALIBRATION STOCK SOL- 2ND | <a href="#">SP6683</a> | 11/15/2024       | 04/10/2025             | Jagrut Upadhyay    | None           | None             | Yogesh Patel         |
|                  |                                                   |                        |                  |                        |                    |                |                  | 12/03/2024           |

**FROM** SOURCE  
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

## SVOC STANDARD PREPARATION LOG

| <u>Recipe ID</u>                                                                                           | <u>NAME</u>                                    | <u>NO.</u>             | <u>Prep Date</u> | <u>Expiration Date</u> | <u>Prepared By</u> | <u>ScaleID</u> | <u>PipetteID</u> | <u>Supervised By</u> |
|------------------------------------------------------------------------------------------------------------|------------------------------------------------|------------------------|------------------|------------------------|--------------------|----------------|------------------|----------------------|
| 3356                                                                                                       | 8270-SIM MDL-0.4PPM<br>CALIBRATION SOL ICV-2ND | <a href="#">SP6684</a> | 11/15/2024       | 04/10/2025             | Jagrut Upadhyay    | None           | None             | Yogesh Patel         |
| <b>SOURCE</b><br>0.87500ml of E3828 + 0.01000ml of SP6682 + 0.12500ml of SP6683 = Final Quantity: 1.010 ml |                                                |                        |                  |                        |                    |                |                  |                      |
| <b>FROM</b>                                                                                                |                                                |                        |                  |                        |                    |                |                  |                      |

## 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 | 01/03/2025      | 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) | 24C0162011 | 11/25/2024      | 05/25/2024 / Rajesh     | 05/08/2024 / Rajesh         | E3746          |

| 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) | 24D1962005 | 12/08/2024      | 06/08/2024 / Rajesh     | 05/31/2024 / Rajesh         | E3759          |

| Supplier         | ItemCode / ItemName                                         | Lot #      | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|------------------|-------------------------------------------------------------|------------|-----------------|-------------------------|-----------------------------|----------------|
| Seidler Chemical | BA-9644-A4 / Methylene Chloride,U-Resi, Cycle-Tainer (215L) | 24E2462004 | 01/08/2025      | 07/08/2024 / Rajesh     | 06/21/2024 / Rajesh         | E3768          |

| Supplier         | ItemCode / ItemName                        | Lot #      | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|------------------|--------------------------------------------|------------|-----------------|-------------------------|-----------------------------|----------------|
| Seidler Chemical | BA-9254-03 / Acetone, Ultra Resi (cs/4x4L) | 23H1462005 | 04/23/2025      | 08/13/2024 / Rajesh     | 08/13/2024 / Rajesh         | E3788          |



## CHEMICAL RECEIPT LOG BOOK

| Supplier         | ItemCode / ItemName                                         | Lot #      | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|------------------|-------------------------------------------------------------|------------|-----------------|-------------------------|-----------------------------|----------------|
| Seidler Chemical | BA-9644-A4 / Methylene Chloride,U-Resi, Cycle-Tainer (215L) | 24G2362009 | 03/09/2025      | 09/09/2024 / Rajesh     | 09/03/2024 / Rajesh         | E3791          |

| Supplier         | ItemCode / ItemName                                         | Lot #      | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|------------------|-------------------------------------------------------------|------------|-----------------|-------------------------|-----------------------------|----------------|
| Seidler Chemical | BA-9644-A4 / Methylene Chloride,U-Resi, Cycle-Tainer (215L) | 24H2762011 | 04/09/2025      | 10/09/2024 / Rajesh     | 10/09/2024 / Rajesh         | E3817          |

| Supplier         | ItemCode / ItemName                        | Lot #      | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|------------------|--------------------------------------------|------------|-----------------|-------------------------|-----------------------------|----------------|
| Seidler Chemical | BA-9254-03 / Acetone, Ultra Resi (cs/4x4L) | 24H1462005 | 04/23/2025      | 10/23/2024 / Rajesh     | 10/09/2024 / Rajesh         | E3818          |

| Supplier         | ItemCode / ItemName                                         | Lot #      | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|------------------|-------------------------------------------------------------|------------|-----------------|-------------------------|-----------------------------|----------------|
| Seidler Chemical | BA-9644-A4 / Methylene Chloride,U-Resi, Cycle-Tainer (215L) | 24G0862003 | 05/09/2025      | 11/09/2024 / Rajesh     | 11/04/2024 / Rajesh         | E3828          |

| Supplier         | ItemCode / ItemName                                     | Lot #      | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|------------------|---------------------------------------------------------|------------|-----------------|-------------------------|-----------------------------|----------------|
| Seidler Chemical | BA-9673-33 / Sulfuric Acid, Instra-Analyzed (cs/6c2.5L) | 0000281827 | 06/02/2025      | 06/01/2022 /            | 04/05/2022 / william        | M5173          |

| Supplier          | ItemCode / ItemName                                       | Lot #  | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|-------------------|-----------------------------------------------------------|--------|-----------------|-------------------------|-----------------------------|----------------|
| CPI International | Z-112090-04 / CLP Acid Surrogate Solution, 7500 mg/L, 1ml | 440246 | 02/08/2025      | 08/08/2024 / Jagrut     | 12/09/2021 / Christian      | S10103         |

## CHEMICAL RECEIPT LOG BOOK

| Supplier | ItemCode / ItemName                                                              | Lot #    | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|----------|----------------------------------------------------------------------------------|----------|-----------------|-------------------------|-----------------------------|----------------|
| Restek   | 31615 / SV Mixture, GC/MS Tuning Mixture, CH <sub>2</sub> Cl <sub>2</sub> , 1mL, | A0182667 | 01/15/2025      | 07/15/2024 / Rahul      | 03/18/2022 / Christian      | S10247         |

| 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 | A0186160 | 11/21/2024      | 05/21/2024 / Jagrut     | 09/07/2022 / Christian      | S10782         |

| 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 | A0188108 | 11/30/2024      | 05/31/2024 / Jagrut     | 12/28/2022 / Christian      | S10977         |

| Supplier | ItemCode / ItemName                                                             | Lot #    | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|----------|---------------------------------------------------------------------------------|----------|-----------------|-------------------------|-----------------------------|----------------|
| Restek   | 31086 / Base Neutral Surrogate 5000ug/ml, CH <sub>2</sub> Cl <sub>2</sub> , 5ml | A0189418 | 11/30/2024      | 05/31/2024 / Jagrut     | 12/28/2022 / Christian      | S11003         |

| Supplier | ItemCode / ItemName                                         | Lot #    | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|----------|-------------------------------------------------------------|----------|-----------------|-------------------------|-----------------------------|----------------|
| Restek   | 555872 / Custom Standard, pentachlorophenol Std [CS 5328-5] | A0193449 | 02/20/2025      | 08/20/2024 / yogesh     | 01/13/2023 / Christian      | S11011         |

| Supplier | ItemCode / ItemName                                           | Lot #    | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|----------|---------------------------------------------------------------|----------|-----------------|-------------------------|-----------------------------|----------------|
| Restek   | 31853 / 1,4-Dioxane, 2000 ug/ml , Solvent: Methylene Chloride | A0187043 | 05/15/2025      | 11/15/2024 / Jagrut     | 02/06/2023 / Christian      | S11074         |

## CHEMICAL RECEIPT LOG BOOK

| Supplier          | ItemCode / ItemName                                                  | Lot #  | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|-------------------|----------------------------------------------------------------------|--------|-----------------|-------------------------|-----------------------------|----------------|
| CPI International | z-110381-01 / 8270 Calibration Solution, 76-1, 500 & 1,000 mg/L, 1ml | 495831 | 02/08/2025      | 08/08/2024 / Jagrut     | 02/07/2023 / Christian      | S11097         |

| Supplier          | ItemCode / ItemName                                               | Lot #  | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|-------------------|-------------------------------------------------------------------|--------|-----------------|-------------------------|-----------------------------|----------------|
| CPI International | Z-110094-02 / CLP Base/Neutral Surrogate Solution, 5000 mg/L, 1ml | 506889 | 02/08/2025      | 08/08/2024 / Jagrut     | 08/11/2023 / Yogesh         | S11494         |

| Supplier    | ItemCode / ItemName                                                                                   | Lot #    | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|-------------|-------------------------------------------------------------------------------------------------------|----------|-----------------|-------------------------|-----------------------------|----------------|
| Restek      | 555223 / Custom 8270 Plus Std #1 [2nd lot at \$100 per ampul if requested - contact ARM with Request] | A0201940 | 12/05/2024      | 06/05/2024 / Rahul      | 09/18/2023 / Kiran          | S11566         |
| [CS 4978-1] |                                                                                                       |          |                 |                         |                             |                |

| 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 | 12/14/2024      | 06/14/2024 / Rahul      | 11/21/2023 / Rahul          | S11766         |

| Supplier | ItemCode / ItemName                                           | Lot #    | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|----------|---------------------------------------------------------------|----------|-----------------|-------------------------|-----------------------------|----------------|
| Restek   | 31853 / 1,4-Dioxane, 2000 ug/ml , Solvent: Methylene Chloride | A0196453 | 02/20/2025      | 08/20/2024 / Rahul      | 11/21/2023 / Rahul          | S11771         |

| 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         |

## 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, CH <sub>2</sub> Cl <sub>2</sub> , 1mL | A0201320 | 12/05/2024      | 06/05/2024 / Rahul      | 12/21/2023 / Rahul          | S12029         |

| Supplier          | ItemCode / ItemName                                                                  | Lot #  | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|-------------------|--------------------------------------------------------------------------------------|--------|-----------------|-------------------------|-----------------------------|----------------|
| CPI International | Z-110816-01 / Custom 8270 Mix, 4-79, 1000 mg/L, 1 mL, (Maximum Expiration: 180 Days) | 414127 | 02/08/2025      | 08/08/2024 / Jagrut     | 01/31/2024 / Rahul          | S12077         |

| Supplier          | ItemCode / ItemName                                                                  | Lot #  | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|-------------------|--------------------------------------------------------------------------------------|--------|-----------------|-------------------------|-----------------------------|----------------|
| CPI International | Z-110816-01 / Custom 8270 Mix, 4-79, 1000 mg/L, 1 mL, (Maximum Expiration: 180 Days) | 414127 | 04/24/2025      | 10/24/2024 / Jagrut     | 01/31/2024 / Rahul          | S12079         |

| Supplier | ItemCode / ItemName                                                                                  | Lot #    | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|----------|------------------------------------------------------------------------------------------------------|----------|-----------------|-------------------------|-----------------------------|----------------|
| Restek   | 555224 / Custom 8270 Plus Std #2 [2nd lot at \$85 per ampul if requested - contact ARM with Request] | A0207706 | 12/05/2024      | 06/05/2024 / Rahul      | 02/05/2024 / Rahul          | S12096         |

[CS 4978-2]

| 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] | A0207706 | 02/12/2025      | 08/12/2024 / Rahul      | 02/05/2024 / Rahul          | S12105         |

[CS 4978-2]

| Supplier          | ItemCode / ItemName                                | Lot #  | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|-------------------|----------------------------------------------------|--------|-----------------|-------------------------|-----------------------------|----------------|
| CPI International | z-010223-01 / 1,4-Dioxane Solution, 2,000mg/L, 1ml | 454157 | 02/09/2025      | 08/09/2024 / Jagrut     | 03/08/2024 / Rahul          | S12113         |

## 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,<br>8270 Mega Mix 1mL,<br>1000ug/mL, CH <sub>2</sub> Cl <sub>2</sub> [New Solvent 100% CH <sub>2</sub> Cl <sub>2</sub> ] | A0203726 | 12/05/2024      | 06/05/2024 /<br>Rahul   | 03/15/2024 /<br>Rahul       | S12117         |

| Supplier | ItemCode / ItemName                                                                                                                          | Lot #    | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|----------|----------------------------------------------------------------------------------------------------------------------------------------------|----------|-----------------|-------------------------|-----------------------------|----------------|
| Restek   | 31850 / 8270 SV Mix,<br>8270 Mega Mix 1mL,<br>1000ug/mL, CH <sub>2</sub> Cl <sub>2</sub> [New Solvent 100% CH <sub>2</sub> Cl <sub>2</sub> ] | A0203726 | 02/12/2025      | 08/12/2024 /<br>Rahul   | 03/15/2024 /<br>Rahul       | S12126         |

| Supplier | ItemCode / ItemName                                                                                                                          | Lot #    | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|----------|----------------------------------------------------------------------------------------------------------------------------------------------|----------|-----------------|-------------------------|-----------------------------|----------------|
| Restek   | 31850 / 8270 SV Mix,<br>8270 Mega Mix 1mL,<br>1000ug/mL, CH <sub>2</sub> Cl <sub>2</sub> [New Solvent 100% CH <sub>2</sub> Cl <sub>2</sub> ] | A0203726 | 04/30/2025      | 11/14/2024 /<br>anahy   | 03/15/2024 /<br>Rahul       | S12142         |

| Supplier | ItemCode / ItemName                                            | Lot #    | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|----------|----------------------------------------------------------------|----------|-----------------|-------------------------|-----------------------------|----------------|
| Restek   | 31087 / Acid Surrogate<br>10,000ug/ml, methanol, 5ml/<br>ampul | A0206206 | 04/10/2025      | 10/10/2024 /<br>anahy   | 03/15/2024 /<br>Rahul       | S12189         |

| Supplier | ItemCode / ItemName                                                                   | Lot #    | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|----------|---------------------------------------------------------------------------------------|----------|-----------------|-------------------------|-----------------------------|----------------|
| Restek   | 31086 / Base Neutral<br>Surrogate<br>5000ug/ml, CH <sub>2</sub> Cl <sub>2</sub> , 5ml | A0206381 | 04/10/2025      | 10/10/2024 /<br>anahy   | 03/15/2024 /<br>Rahul       | S12207         |

| Supplier | ItemCode / ItemName                                                                   | Lot #    | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|----------|---------------------------------------------------------------------------------------|----------|-----------------|-------------------------|-----------------------------|----------------|
| Restek   | 31086 / Base Neutral<br>Surrogate<br>5000ug/ml, CH <sub>2</sub> Cl <sub>2</sub> , 5ml | A0206381 | 05/15/2025      | 11/15/2024 /<br>Jagrut  | 03/15/2024 /<br>Rahul       | S12208         |

## 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, CH <sub>2</sub> Cl <sub>2</sub> , 1mL | A0206540 | 03/04/2025      | 09/04/2024 / anahy      | 05/30/2024 / Rahul          | S12314         |

| Supplier | ItemCode / ItemName                                                                        | Lot #    | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|----------|--------------------------------------------------------------------------------------------|----------|-----------------|-------------------------|-----------------------------|----------------|
| Restek   | 31206 / SV Mix, CLP method, Internal Std, 2000ug/mL, CH <sub>2</sub> Cl <sub>2</sub> , 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] | A0214021 | 02/12/2025      | 08/12/2024 / Rahul      | 07/23/2024 / RAHUL          | S12453         |

[CS 4978-1]

| 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] | A0214021 | 05/14/2025      | 11/14/2024 / anahy      | 07/23/2024 / RAHUL          | S12469         |

[CS 4978-1]

| 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] | A0214017 | 05/14/2025      | 11/14/2024 / anahy      | 07/23/2024 / RAHUL          | S12517         |

[CS 4978-2]

| 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          |



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

Page 1 of 1

**Catalog No.:** Lot No.: **Storage:** **Solvent:** **Exp. Date:** **Description:**  
Z-112090 440246  $\leq -10^{\circ}\text{C}$  Methylene Chloride 2/16/2026 CLP Acid Surrogate Solution, 7,500 mg/L, 1 mL  
-04

| Compound                      | CAS No.    | Purity (%) | Compound Lot No. | Concentration, mg/L |
|-------------------------------|------------|------------|------------------|---------------------|
| 2-chlorophenol-d <sub>4</sub> | 93951-73-6 | 99.3       | 248.12.7P        | 7487 $\pm$ 17.2     |
| 2-fluorophenol                | 367-12-4   | 99.8       | 10.7.3.3P        | 7513 $\pm$ 17.26    |
| phenol-d <sub>6</sub>         | 13127-88-3 | 99.9       | 949.120.8P       | 7481 $\pm$ 17.19    |
| 2,4,6-tribromophenol          | 118-79-6   | 99.8       | 12.1.6P          | 7469 $\pm$ 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

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 gravimetrically.

Certified By: \_\_\_\_\_

Erica Castiglione  
Chemist



5580 Skylane Blvd  
Santa Rosa, CA 95403

(707)525-5788  
(800)878-7654 Toll Free  
(707)545-7901 Fax

Receivalon  
02/07/23 by CG

Sheet S11096  
to  
S11099

Manufacturer's Quality System  
Audited & Registered  
by TUV USA to ISO 9001:2015

Date Received: \_\_\_\_\_

## Certificate of Analysis

Rev 0

Page 1 of 4

| Catalog No.: | Lot No.: | Storage: | Solvent:           | Exp. Date: | Description:                                                   |
|--------------|----------|----------|--------------------|------------|----------------------------------------------------------------|
| Z-110381-01  | 495831   | ≤ -10 °C | Methylene Chloride | 10/30/2027 | Method 8270 Calibration Solution, 76-1, 500 & 1,000 mg/L, 1 mL |

| Compound                          | CAS No.  | Purity (%) | Compound Lot No. | Concentration, mg/L |
|-----------------------------------|----------|------------|------------------|---------------------|
| acenaphthene                      | 83-32-9  | 99.9       | 13.1.5P          | 1003 ± 17.27        |
| acenaphthylene                    | 208-96-8 | 97.6       | 14.290.1P        | 999.8 ± 17.22       |
| aniline                           | 62-53-3  | 99.9       | 64.7.1P          | 995 ± 17.13         |
| anthracene                        | 120-12-7 | 99.5       | 15.7.1P          | 1001 ± 17.24        |
| azobenzene                        | 103-33-3 | 98.1       | 252.7.2P         | 999.1 ± 17.21       |
| benzo[a]anthracene                | 56-55-3  | 100        | 16.7.3P          | 1001 ± 17.24        |
| benzo[b]fluoranthene              | 205-99-2 | 99.8       | 17.421.3P        | 1001 ± 19.91        |
| benzo[k]fluoranthene              | 207-08-9 | 98.9       | 18.421.4P        | 1001 ± 17.92        |
| benzo[ghi]perylene                | 191-24-2 | 93         | 19.286.4P        | 999.6 ± 19.88       |
| benzo[a]pyrene                    | 50-32-8  | 97         | 20.286.2P        | 999.1 ± 26.35       |
| benzyl alcohol                    | 100-51-6 | 99.9       | 65.18.1P         | 1001 ± 17.24        |
| bis(2-chloroethoxy)methane        | 111-91-1 | 99.1       | 31.3.15P         | 999.7 ± 17.89       |
| bis(2-chloroethyl)ether           | 111-44-4 | 99.8       | 32.7.1P          | 1001 ± 17.23        |
| bis(2-chloro-1-methylethyl) ether | 108-60-1 | 99.5       | 34.3.13P         | 999.5 ± 17.89       |
| bis(2-ethylhexyl)adipate          | 103-23-1 | 99.5       | 874.7.1P         | 999.5 ± 17.21       |
| bis(2-ethylhexyl)phthalate        | 117-81-7 | 99.4       | 33.29.1P         | 998.8 ± 19.86       |
| 4-bromophenyl phenyl ether        | 101-55-3 | 99.4       | 35.7.1P          | 999.1 ± 17.2        |
| butyl benzyl phthalate            | 85-68-7  | 98.4       | 36.1.6P          | 984.7 ± 19.58       |
| carbazole                         | 86-74-8  | 99.4       | 239.7.2P         | 1000 ± 17.22        |

\*Not a certified value

Manufactured by o2si smart solutions, Accredited to ISO 9001:2008 by NSF and ISO/IEC 17025:2005 (Certification No. 3031.01) and ISO Guide 34:2009 (Certification No. 3031.02) by A2LA

*Brianna Smith*

Certified By: \_\_\_\_\_

Brianna Smith  
Chemist

All weights are traceable through N. I. S. T. Test No. 822/264157-00.  
Concentration (correct for purity) and uncertainty (95% confidence) values listed are determined gravimetrically.



# Certificate of Analysis

Page 4 of 4

Catalog No.: Z-110381-01

Lot No.: 495831

Expiration Date: 10/30/2027

| <u>Compound</u>        | <u>CAS No.</u> | <u>Purity (%)</u> | <u>Compound Lot No.</u> | <u>Concentration, mg/L</u> |
|------------------------|----------------|-------------------|-------------------------|----------------------------|
| 1,2,4-trichlorobenzene | 120-82-1       | 99.6              | 54.29.1P                | 1000 ± 17.22               |
| 2,4,5-trichlorophenol  | 95-95-4        | 96.5              | 121.7.1.1P              | 1000 ± 17.22               |
| 2,4,6-trichlorophenol  | 88-06-2        | 99.6              | 113.7.1P                | 1002 ± 17.25               |

\*Not a certified value

Manufactured by o2si smart solutions, Accredited to ISO 9001:2008 by NSF and ISO/IEC 17025:2005 (Certification No. 3031.01) and ISO Guide 34:2009 (Certification No. 3031.02) by A2LA

Certified By: \_\_\_\_\_



Briana Smith  
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 gravimetrically.



# CERTIFIED REFERENCE MATERIAL

110 Benner Circle  
Bellefonte, PA 16823-8812  
Tel: (800)356-1688  
Fax: (814)353-1309

www.restek.com

## 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  
03/10/22  
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<br>CAS # 87-86-5 (Lot 211229RSR)<br>Purity 99%                     | 1,003.6 µg/mL               | +/- 5.8897 µg/mL<br>+/- 45.7132 µg/mL<br>+/- 66.0037 µg/mL | Gravimetric<br>Unstressed<br>Stressed |
| 2               | DFTPP (Decafluorotriphenylphosphine)<br>CAS # 5074-71-5 (Lot Q117-147)<br>Purity 95% | 1,006.6 µg/mL               | +/- 5.9074 µg/mL<br>+/- 45.8508 µg/mL<br>+/- 66.2023 µg/mL | Gravimetric<br>Unstressed<br>Stressed |
| 3               | Benzidine<br>CAS # 92-87-5 (Lot 211228JLM)<br>Purity 99%                             | 1,008.4 µg/mL               | +/- 5.9179 µg/mL<br>+/- 45.9318 µg/mL<br>+/- 66.3193 µg/mL | Gravimetric<br>Unstressed<br>Stressed |
| 4               | 4,4'-DDT<br>CAS # 50-29-3 (Lot 210916JLM)<br>Purity 99%                              | 1,007.6 µg/mL               | +/- 5.9132 µg/mL<br>+/- 45.8954 µg/mL<br>+/- 66.2667 µg/mL | Gravimetric<br>Unstressed<br>Stressed |
| <b>Solvent:</b> | Methylene chloride<br>CAS # 75-09-2<br>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:**

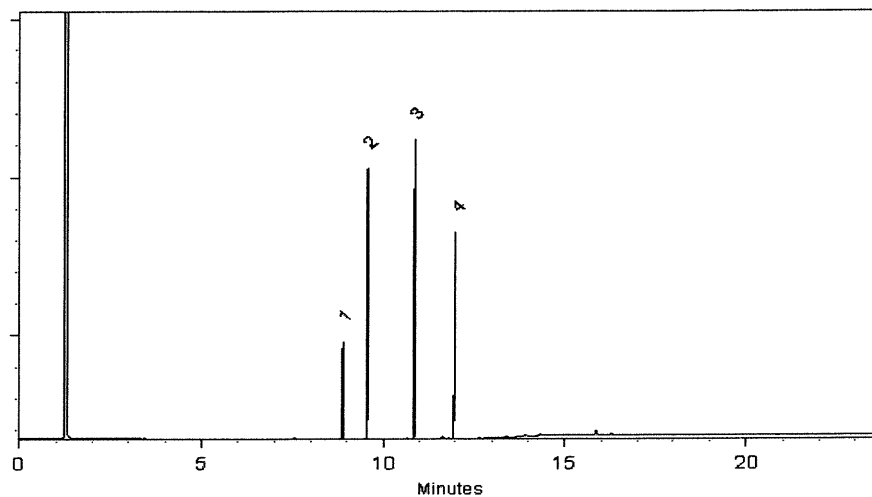
250°C

**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

Marlene Cowan - Operations Tech I

Date Passed: 10-Mar-2022

Manufactured under Restek's ISO 9001:2015  
Registered Quality System  
Certificate #FM 80397



110 Benner Circle  
Bellefonte, PA 16823-8812  
Tel: (800)356-1688  
Fax: (814)353-1309

www.restek.com

# CERTIFIED REFERENCE MATERIAL

## 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.*

**Catalog No. :** 33913 **Lot No.:** A0186160

**Description :** SOM01.0 SIM Analysis Standard

SOM01.0 SIM Analysis Standard 2000µg/mL, Methylene chloride, 1mL /ampul

**Container Size :** 2 mL **Pkg Amt:** > 1 mL

**Expiration Date :** May 31, 2028 **Storage:** 10°C or colder

**Handling:** Sonication required. Mix is photosensitive. **Ship:** Ambient

Received on  
09/07/22  
by  
CG  
S10778  
to  
S10782

### CERTIFIED VALUES

| Elution Order   | Compound                                                              | Grav. Conc. (weight/volume) | Expanded Uncertainty (95% C.L.; K=2)                                                         |
|-----------------|-----------------------------------------------------------------------|-----------------------------|----------------------------------------------------------------------------------------------|
| 1               | 2-Methylnaphthalene-d10<br>CAS # 7297-45-2 (Lot EF-135)<br>Purity 96% | 2,015.0 µg/mL               | +/- 11.8254 µg/mL Gravimetric<br>+/- 90.7728 µg/mL Unstressed<br>+/- 100.7207 µg/mL Stressed |
| 2               | Fluoranthene-d10<br>CAS # 93951-69-0 (Lot PR-20668)<br>Purity 99%     | 2,007.0 µg/mL               | +/- 11.7782 µg/mL Gravimetric<br>+/- 90.4107 µg/mL Unstressed<br>+/- 100.3188 µg/mL Stressed |
| <b>Solvent:</b> | Methylene chloride<br>CAS # 75-09-2<br>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:**

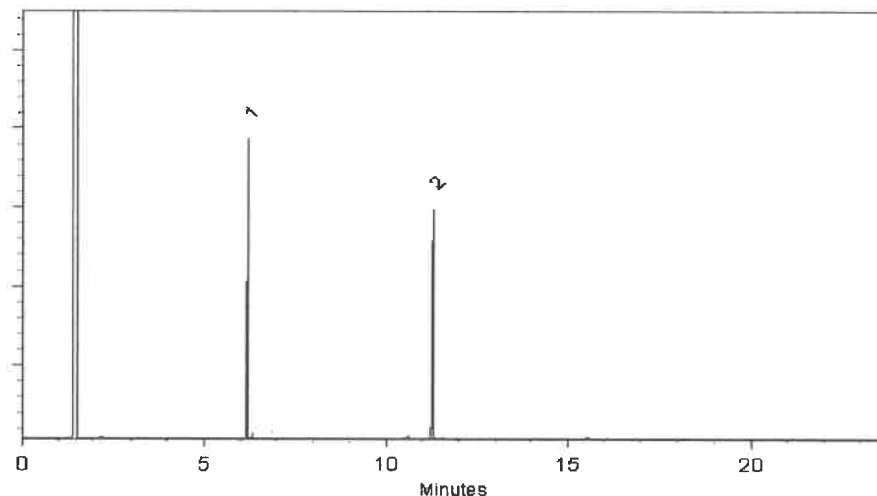
250°C

**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.

John Friedline - Operations Technician I

Date Mixed: 09-Jun-2022

Balance: B442140311

Martina Cowan - Operations Tech II ARM QC

Date Passed: 13-Jun-2022

Manufactured under Restek's ISO 9001:2015  
Registered Quality System  
Certificate #FM 80397



# CERTIFIED REFERENCE MATERIAL

110 Benner Circle  
Bellefonte, PA 16823-8812  
Tel: (800)356-1688  
Fax: (814)353-1309

www.restek.com

## 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  
02/08/23

b1

CG

S 11071

to

S 11075

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<br>CAS # 123-91-1<br>Purity 99%<br>(Lot SHBN5929) | 2,019.0 µg/mL               | +/- 11.8486 µg/mL Gravimetric<br>+/- 43.2570 µg/mL Unstressed<br>+/- 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:**

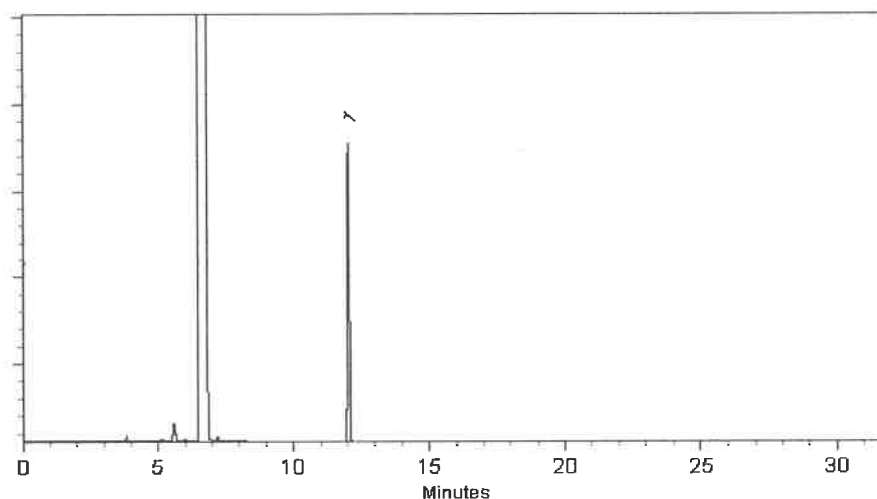
200°C

**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



110 Benner Circle  
Bellefonte, PA 16823-8812  
Tel: (800)356-1688  
Fax: (814)353-1309

www.restek.com

# CERTIFIED REFERENCE MATERIAL

## 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 by  
CG on  
12/28/22  
S10951  
to  
S10980

**Catalog No. :** 31087 **Lot No.:** A0188108

**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 :** August 31, 2030 **Storage:** 10°C or colder  
**Ship:** Ambient

### CERTIFIED VALUES

| Elution Order | Compound                                                               | Grav. Conc. (weight/volume) | Expanded Uncertainty (95% C.L.; K=2)                                                          |
|---------------|------------------------------------------------------------------------|-----------------------------|-----------------------------------------------------------------------------------------------|
| 1             | 2-Fluorophenol<br>CAS # 367-12-4<br>Purity 99%<br>(Lot STBF3761V)      | 10,088.5 µg/mL              | +/- 58.6554 µg/mL Gravimetric<br>+/- 294.4162 µg/mL Unstressed<br>+/- 357.2628 µg/mL Stressed |
| 2             | Phenol-d6<br>CAS # 13127-88-3<br>Purity 99%<br>(Lot PR-31262)          | 10,043.3 µg/mL              | +/- 58.3923 µg/mL Gravimetric<br>+/- 293.0957 µg/mL Unstressed<br>+/- 355.6603 µg/mL Stressed |
| 3             | 2,4,6-Tribromophenol<br>CAS # 118-79-6<br>Purity 99%<br>(Lot MKCJ7664) | 10,010.0 µg/mL              | +/- 58.1990 µg/mL Gravimetric<br>+/- 292.1253 µg/mL Unstressed<br>+/- 354.4829 µg/mL Stressed |

**Solvent:** Methanol  
CAS # 67-56-1  
Purity 99%



**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:**

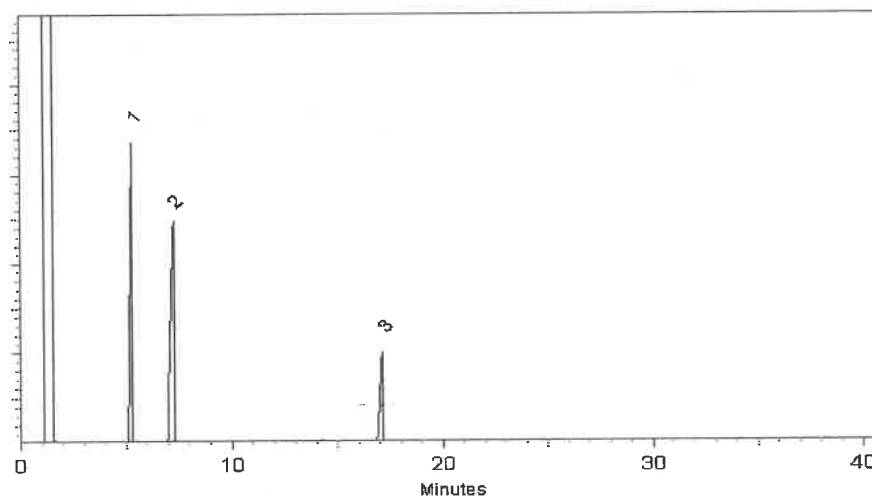
250°C

**Det. Temp:**

330°C

**Det. Type:**

FID



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: 02-Aug-2022 Balance: 1127510105

  
Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 05-Aug-2022

Manufactured under Restek's ISO 9001:2015  
Registered Quality System  
Certificate #FM 80397



110 Benner Circle  
Bellefonte, PA 16823-8812  
Tel: (800)356-1688  
Fax: (814)353-1309

www.restek.com

## CERTIFIED REFERENCE MATERIAL

# 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.*

**Catalog No. :** 31086 **Lot No.:** A0189418  
**Description :** B/N Surrogate Mix (4/89 SOW)  
Base Neutral Surrogate 5000µg/mL, Methylene Chloride, 5mL/ampul  
**Container Size :** 5 mL **Pkg Amt:** > 5 mL  
**Expiration Date :** August 31, 2028 **Storage:** 10°C or colder  
**Handling:** Sonicate prior to use. **Ship:** Ambient

Received by  
CG on  
12/28/22  
\$10981  
to  
S11010

### CERTIFIED VALUES

| Elution Order | Compound                                                         | Grav. Conc. (weight/volume) | Expanded Uncertainty (95% C.L.; K=2)                                                          |
|---------------|------------------------------------------------------------------|-----------------------------|-----------------------------------------------------------------------------------------------|
| 1             | Nitrobenzene-d5<br>CAS # 4165-60-0 (Lot PR-29940A)<br>Purity 99% | 5,009.8 µg/mL               | +/- 29.1271 µg/mL Gravimetric<br>+/- 225.6421 µg/mL Unstressed<br>+/- 250.3778 µg/mL Stressed |
| 2             | 2-Fluorobiphenyl<br>CAS # 321-60-8 (Lot 00021384)<br>Purity 99%  | 5,026.6 µg/mL               | +/- 29.2250 µg/mL Gravimetric<br>+/- 226.4003 µg/mL Unstressed<br>+/- 251.2191 µg/mL Stressed |
| 3             | p-Terphenyl-d14<br>CAS # 1718-51-0 (Lot PR-30504)<br>Purity 99%  | 5,027.3 µg/mL               | +/- 29.2289 µg/mL Gravimetric<br>+/- 226.4304 µg/mL Unstressed<br>+/- 251.2524 µg/mL Stressed |

**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.

**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:**

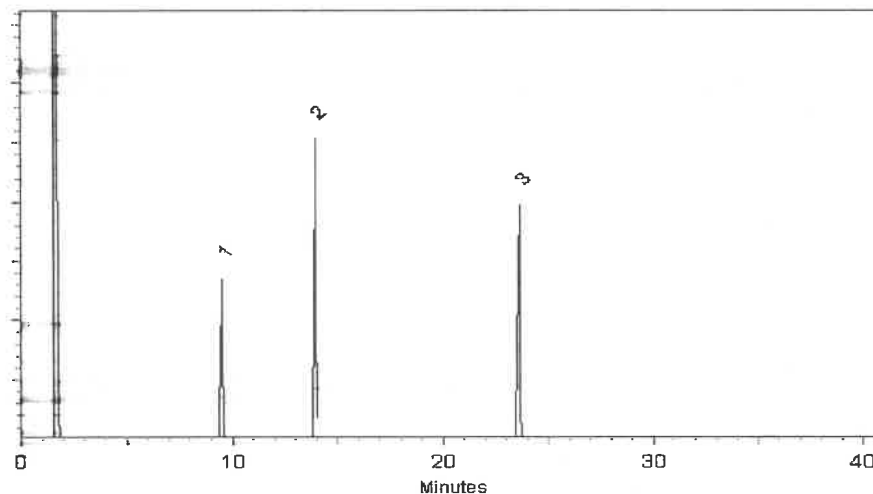
250°C

**Det. Temp:**

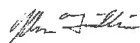
330°C

**Det. Type:**

FID



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.

  
John Friedline - Operations Technician I

Date Mixed: 09-Sep-2022

Balance: 1128353505

  
Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 13-Sep-2022

Manufactured under Restek's ISO 9001:2015  
Registered Quality System  
Certificate #FM 80397



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

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.:** 555872 **Lot No.:** A0193449  
**Description:** Custom Pentachlorophenol Standard  
Custom Pentachlorophenol Standard 25,000µg/mL, Methanol,  
1mL/ampul  
**Container Size:** 2 mL **Pkg Amt:** > 1 mL  
**Expiration Date:** January 31, 2026 **Storage:** 10°C or colder  
**Ship:** Ambient

Received on  
01/13/23  
by  
CG  
S11011  
+0  
S11015

## CERTIFIED VALUES

| Component # | Compound          | CAS #   | Lot #    | Purity | Grav. Conc. (weight/volume) | Expanded Uncertainty * (95% C.L.; K=2) |
|-------------|-------------------|---------|----------|--------|-----------------------------|----------------------------------------|
| 1           | Pentachlorophenol | 87-86-5 | RP221012 | 99%    | 25,050.0 µg/mL              | +/- 778.6378                           |

**Solvent:** Methanol  
**CAS #** 67-56-1  
**Purity** 99%

*Russ Bookhamer*

Russ Bookhamer - Operations Technician I

**Date Mixed:** 11-Jan-2023

**Balance:** B442140311

Manufactured under Restek's ISO 9001:2015  
Registered Quality System  
Certificate #FM 80397

## General Certified Reference Material Notes

### Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

### Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

### Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k \sqrt{u_{gravimetric}^2 + u_{homogeneity}^2 + u_{storage\ stability}^2 + u_{shipping\ stability}^2}$$

$k$  is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

### Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

### Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.



**PRODUCTOS  
QUÍMICOS  
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 <sub>2</sub> SO <sub>4</sub> |
| SPECIFICATION NUMBER : | 6399                              | RELEASE DATE: | ABR/21/2023                     |
| LOT NUMBER :           | 313201                            |               |                                 |

| TEST                                     | SPECIFICATIONS | LOT VALUES  |
|------------------------------------------|----------------|-------------|
| Assay (Na <sub>2</sub> SO <sub>4</sub> ) | 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 <sub>4</sub> )             | 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 foreign 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.

Recd. by R3 on 7/24/23 E 3551

RC-02-01, Ed. 3



# 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:

Manufacture Date: 12/14/2022  
Expiration Date: 12/31/2025

Storage: Room Temperature

Pellets

| TEST               | SPECIFICATION          | ANALYSIS            | DISPOSITION |
|--------------------|------------------------|---------------------|-------------|
| Calcium            | $\leq 0.005 \%$        | $< 0.005 \%$        | PASS        |
| Chloride           | $\leq 0.005 \%$        | 0.002 %             | PASS        |
| Heavy Metals       | $\leq 0.002 \%$        | $< 0.002 \%$        | PASS        |
| Iron               | $\leq 0.001 \%$        | $< 0.001 \%$        | PASS        |
| Magnesium          | $\leq 0.002 \%$        | $< 0.002 \%$        | PASS        |
| Mercury            | $\leq 0.1 \text{ ppm}$ | $< 0.1 \text{ ppm}$ | PASS        |
| Nickel             | $\leq 0.001 \%$        | $< 0.001 \%$        | PASS        |
| Nitrogen Compounds | $\leq 0.001 \%$        | $< 0.001 \%$        | PASS        |
| Phosphate          | $\leq 0.001 \%$        | $< 0.001 \%$        | PASS        |
| Potassium          | $\leq 0.02 \%$         | $< 0.02 \%$         | PASS        |
| Purity             | $\geq 97.0 \%$         | 99.2 %              | PASS        |
| Sodium Carbonate   | $\leq 1.0 \%$          | 0.5 %               | PASS        |
| Sulfate            | $\leq 0.003 \%$        | $< 0.003 \%$        | PASS        |

Internal ID #: 710

### Signature

We certify that this batch conforms to the specifications listed.

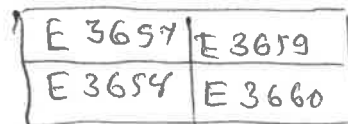
This document has been electronically produced and is valid without a signature.

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.



Methylene Chloride  
ULTRA RESI-ANALYZED  
For Organic Residue Analysis  
(dichloromethane)



Material No.: 9266-A4  
Batch No.: 24C0162011  
Manufactured Date: 2024-01-04  
Expiration Date: 2025-04-04  
Revision No.: 0

## Certificate of Analysis

| Test                                                                                             | Specification          | Result   |
|--------------------------------------------------------------------------------------------------|------------------------|----------|
| FID-Sensitive Impurities (as 2-Octanol) Single Impurity Peak (ng/mL)                             | $\leq 5$               | < 1      |
| ECD Sensitive Impurities (as Heptachlor Epoxide) Single Peak (pg/mL)                             | $\leq 10$              | 2        |
| Assay (CH <sub>2</sub> Cl <sub>2</sub> ) (by GC, exclusive of preservative, corrected for water) | $\geq 99.8 \%$         | 100.0 %  |
| Color (APHA)                                                                                     | $\leq 10$              | 10       |
| Residue after Evaporation                                                                        | $\leq 1.0 \text{ ppm}$ | 0.2 ppm  |
| Titration Acid ( $\mu\text{eq/g}$ )                                                              | $\leq 0.3$             | < 0.1    |
| Chloride (Cl)                                                                                    | $\leq 10 \text{ ppm}$  | < 5 ppm  |
| Water (by KF, coulometric)                                                                       | $\leq 0.02 \%$         | < 0.01 % |

For Laboratory, Research, or Manufacturing Use  
MEETS SPECIFICATIONS WITHIN THE EXPIRATION PERIOD

Country of Origin: USA  
Packaging Site: Phillipsburg Mfg Ctr & DC  
Manufacturer source batch: MG24A04224

E 3746

Ken Koehnlein  
Sr. Manager, Quality Assurance



Methylene Chloride  
ULTRA RESI-ANALYZED  
For Organic Residue Analysis  
(dichloromethane)



Material No.: 9266-A4  
Batch No.: 24D1962005  
Manufactured Date: 2024-03-16  
Expiration Date: 2025-06-15  
Revision No.: 0

## Certificate of Analysis

| Test                                                                                       | Specification          | Result   |
|--------------------------------------------------------------------------------------------|------------------------|----------|
| FID-Sensitive Impurities (as 2-Octanol) Single Impurity Peak (ng/mL)                       | $\leq 5$               | < 1      |
| ECD Sensitive Impurities (as Heptachlor Epoxide) Single Peak (pg/mL)                       | $\leq 10$              | 8        |
| Assay ( $\text{CH}_2\text{Cl}_2$ ) (by GC, exclusive of preservative, corrected for water) | $\geq 99.8 \%$         | 99.9 %   |
| Color (APHA)                                                                               | $\leq 10$              | 5        |
| Residue after Evaporation                                                                  | $\leq 1.0 \text{ ppm}$ | 0.1 ppm  |
| Titration Acid ( $\mu\text{eq/g}$ )                                                        | $\leq 0.3$             | < 0.1    |
| Chloride (Cl)                                                                              | $\leq 10 \text{ ppm}$  | < 5 ppm  |
| Water (by KF, coulometric)                                                                 | $\leq 0.02 \%$         | < 0.01 % |

For Laboratory, Research, or Manufacturing Use  
MEETS SPECIFICATIONS WITHIN THE EXPIRATION PERIOD

Country of Origin: USA  
Packaging Site: Phillipsburg Mfg Ctr & DC  
Manufacturer source batch: MG24C16563

E 3759

Jamie Croak  
Director Quality Operations, Bioscience Production

Methylene Chloride  
ULTRA RESI-ANALYZED  
For Organic Residue Analysis  
(dichloromethane)



Material No.: 9266-A4  
Batch No.: 24E2462004  
Manufactured Date: 2024-04-10  
Expiration Date: 2025-07-10  
Revision No.: 0

## Certificate of Analysis

| Test                                                                                       | Specification          | Result   |
|--------------------------------------------------------------------------------------------|------------------------|----------|
| FID-Sensitive Impurities (as 2-Octanol) Single Impurity Peak (ng/mL)                       | $\leq 5$               | 3        |
| ECD Sensitive Impurities (as Heptachlor Epoxide) Single Peak (pg/mL)                       | $\leq 10$              | 3        |
| Assay ( $\text{CH}_2\text{Cl}_2$ ) (by GC, exclusive of preservative, corrected for water) | $\geq 99.8 \%$         | 100.0 %  |
| Color (APHA)                                                                               | $\leq 10$              | 5        |
| Residue after Evaporation                                                                  | $\leq 1.0 \text{ ppm}$ | 0.1 ppm  |
| Titration Acid ( $\mu\text{eq/g}$ )                                                        | $\leq 0.3$             | < 0.1    |
| Chloride (Cl)                                                                              | $\leq 10 \text{ ppm}$  | 5 ppm    |
| Water (by KF, coulometric)                                                                 | $\leq 0.02 \%$         | < 0.01 % |

For Laboratory, Research, or Manufacturing Use  
MEETS SPECIFICATIONS WITHIN THE EXPIRATION PERIOD

Country of Origin: USA  
Packaging Site: Phillipsburg Mfg Ctr & DC  
Manufacturer source batch: MG24D10725

E 3768

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™



Material No.: 9254-03  
Batch No.: 23H1462005  
Manufactured Date: 2023-07-26  
Expiration Date: 2026-07-25  
Revision No.: 0

## Certificate of Analysis

| Test                                                                    | Specification | Result      |
|-------------------------------------------------------------------------|---------------|-------------|
| Assay ((CH <sub>3</sub> ) <sub>2</sub> CO) (by GC, corrected for water) | ≥ 99.4 %      | 99.7 %      |
| Color (APHA)                                                            | ≤ 10          | 5           |
| Residue after Evaporation                                               | ≤ 1.0 ppm     | 0.3 ppm     |
| Substances Reducing Permanganate                                        | Passes Test   | Passes Test |
| Titration Acid (μeq/g)                                                  | ≤ 0.3         | 0.1         |
| Titration Base (μeq/g)                                                  | ≤ 0.6         | < 0.1       |
| Water (H <sub>2</sub> O)                                                | ≤ 0.5 %       | 0.3 %       |
| FID-Sensitive Impurities (as 2-Octanol) Single Impurity Peak (ng/mL)    | ≤ 5           | < 1         |
| ECD Sensitive Impurities (as Heptachlor Epoxide) Single Peak (pg/mL)    | ≤ 10          | 1           |

For Laboratory, Research, or Manufacturing Use  
MEETS SPECIFICATIONS WITHIN THE EXPIRATION PERIOD

Country of Origin: USA  
Packaging Site: Phillipsburg Mfg Ctr & DC

Recd by RP on 8/13/24

E 3788

Ken Koehnlein  
Sr. Manager, Quality Assurance

Methylene Chloride  
ULTRA RESI-ANALYZED  
For Organic Residue Analysis  
(dichloromethane)



Material No.: 9266-A4  
Batch No.: 24G2362009  
Manufactured Date: 2024-06-10  
Expiration Date: 2025-09-09  
Revision No.: 0

## Certificate of Analysis

| Test                                                                                             | Specification          | Result   |
|--------------------------------------------------------------------------------------------------|------------------------|----------|
| FID-Sensitive Impurities (as 2-Octanol) Single Impurity Peak (ng/mL)                             | $\leq 5$               | 2        |
| ECD Sensitive Impurities (as Heptachlor Epoxide) Single Peak (pg/mL)                             | $\leq 10$              | 1        |
| Assay (CH <sub>2</sub> Cl <sub>2</sub> ) (by GC, exclusive of preservative, corrected for water) | $\geq 99.8 \%$         | 100.0 %  |
| Color (APHA)                                                                                     | $\leq 10$              | 5        |
| Residue after Evaporation                                                                        | $\leq 1.0 \text{ ppm}$ | 0.3 ppm  |
| Titration Acid ( $\mu\text{eq/g}$ )                                                              | $\leq 0.3$             | < 0.1    |
| Chloride (Cl)                                                                                    | $\leq 10 \text{ ppm}$  | < 5 ppm  |
| Water (by KF, coulometric)                                                                       | $\leq 0.02 \%$         | < 0.01 % |

For Laboratory, Research, or Manufacturing Use  
MEETS SPECIFICATIONS WITHIN THE EXPIRATION PERIOD

Country of Origin: USA  
Packaging Site: Phillipsburg Mfg Ctr & DC  
Manufacturer source batch: MG24F10024

E 3791

Jamie Croak  
Director Quality Operations, Bioscience Production

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700

Avantor Performance Materials, LLC  
100 Matsonford Rd, Suite 200, Radnor, PA 19087. U.S.A. Phone 610.386.1700  
Page 1 of 1

Methylene Chloride  
ULTRA RESI-ANALYZED  
For Organic Residue Analysis  
(dichloromethane)



Material No.: 9266-A4

Batch No.: 24H2762011

Manufactured Date: 2024-06-05

Expiration Date: 2025-09-04

Revision No.: 0

## Certificate of Analysis

| Test                                                                                       | Specification  | Result     |
|--------------------------------------------------------------------------------------------|----------------|------------|
| FID-Sensitive Impurities (as 2-Octanol) Single Impurity Peak (ng/mL)                       | $\leq 5$       | 2          |
| ECD Sensitive Impurities (as HeptachlorEpoxide) Single Peak (pg/mL)                        | $\leq 10$      | 5          |
| Assay ( $\text{CH}_2\text{Cl}_2$ ) (by GC, exclusive of preservative, corrected for water) | $\geq 99.8\%$  | 100.0 %    |
| Color (APHA)                                                                               | $\leq 10$      | 5          |
| Residue after Evaporation                                                                  | $\leq 1.0$ ppm | 0.3 ppm    |
| Titration Acid ( $\mu\text{eq/g}$ )                                                        | $\leq 0.3$     | $< 0.1$    |
| Chloride (Cl)                                                                              | $\leq 10$ ppm  | $< 5$ ppm  |
| Water (by KF, coulometric)                                                                 | $\leq 0.02\%$  | $< 0.01\%$ |

For Laboratory, Research, or Manufacturing Use

MEETS SPECIFICATIONS WITHIN THE EXPIRATION PERIOD

Country of Origin: United States

Packaging Site: Phillipsburg Mfg Ctr & DC

E 3817

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

Acetone  
BAKER RESI-ANALYZED® Reagent  
For Organic Residue Analysis

avantor



Material No.: 9254-03  
Batch No.: 24H1462005  
Manufactured Date: 2024-05-24  
Expiration Date: 2027-05-24  
Revision No.: 0

## Certificate of Analysis

| Test                                                                   | Specification | Result      |
|------------------------------------------------------------------------|---------------|-------------|
| Assay ((CH <sub>3</sub> ) <sub>2</sub> CO) (by GC, corrected forwater) | >= 99.4 %     | 99.8 %      |
| Color (APHA)                                                           | <= 10         | 5           |
| Residue after Evaporation                                              | <= 1.0 ppm    | 0.2 ppm     |
| Substances Reducing Permanganate                                       | Passes Test   | Passes Test |
| Titration Acid (µeq/g)                                                 | <= 0.3        | 0.2         |
| Titration Base (µeq/g)                                                 | <= 0.6        | <0.1        |
| Water (H <sub>2</sub> O)                                               | <= 0.5 %      | 0.2 %       |
| FID-Sensitive Impurities (as 2-Octanol)Single Impurity Peak (ng/mL)    | <= 5          | <1          |
| ECD Sensitive Impurities (as HeptachlorEpoxide) Single Peak (pg/mL)    | <= 10         | 1           |

For Laboratory, Research, or Manufacturing Use  
MEETS SPECIFICATIONS WITHIN THE EXPIRATION PERIOD

Country of Origin: United States  
Packaging Site: Phillipsburg Mfg Ctr & DC

Recd. by RP on 10/9/24

E 3818

*J. Croak*

Jamie Croak  
Director Quality Operations, Bioscience Production

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700

Avantor Performance Materials, LLC

100 Matsonford Rd, Suite 200, Radnor, PA, 19087, U.S.A. Phone 610.386.1700

Methylene Chloride  
ULTRA RESI-ANALYZED  
For Organic Residue Analysis  
(dichloromethane)

 **avantor**™



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)                       | $\leq 5$               | 2                 |
| ECD Sensitive Impurities (as HeptachlorEpoxide) Single Peak (pg/mL)                        | $\leq 10$              | 1                 |
| Assay ( $\text{CH}_2\text{Cl}_2$ ) (by GC, exclusive of preservative, corrected for water) | $\geq 99.8 \%$         | 100.0 %           |
| Color (APHA)                                                                               | $\leq 10$              | 5                 |
| Residue after Evaporation                                                                  | $\leq 1.0 \text{ ppm}$ | 0.2 ppm           |
| Titration Acid ( $\mu\text{eq/g}$ )                                                        | $\leq 0.3$             | $< 0.1$           |
| Chloride (Cl)                                                                              | $\leq 10 \text{ ppm}$  | $< 5 \text{ ppm}$ |
| Water (by KF, coulometric)                                                                 | $\leq 0.02 \%$         | $< 0.01 \%$       |

For Laboratory, Research, or Manufacturing Use

MEETS SPECIFICATIONS WITHIN THE EXPIRATION PERIOD

Country of Origin: United States

Packaging Site: Phillipsburg Mfg Ctr & DC

E 3828



Jamie Croak  
Director Quality Operations, Bioscience Production

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700

Avantor Performance Materials LLC

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 <sub>2</sub> ) | <= 0.5 ppm    | < 0.5   |
| Phosphate (PO <sub>4</sub> )              | <= 0.05 ppm   | < 0.03  |
| Sulfate (SO <sub>4</sub> )                | <= 0.5 ppm    | < 0.3   |
| Sulfite (SO <sub>3</sub> )                | <= 0.8 ppm    | 0.3     |
| Ammonium (NH <sub>4</sub> )               | <= 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   |

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Avantor Performance Materials, LLC  
100 Matsonford Rd, Suite 200, Radnor, PA 19087. U.S.A. Phone: 610.386.1700



| 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

  
Jamie Ethier  
Vice President Global Quality



5580 Skyline 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

Page 1 of 1

| Catalog No.: Lot No.:              | Storage: | Solvent:           | Exp. Date: | Rev              | Description:                                          |
|------------------------------------|----------|--------------------|------------|------------------|-------------------------------------------------------|
| Z-110094-02 506889                 | ≤ -10 °C | Methylene Chloride | 7/25/2028  | 0                | 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 <sub>4</sub> |          | 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 } Y.P.  
↓ 08/11/2023  
511498 }

\*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 gravimetrically.



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

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. :** 555223  
**Description :** Custom 8270 Plus Standard #1  
Custom 8270 Plus Standard #1 1,000µg/mL, Methylene Chloride, 1mL/ampul  
**Container Size :** 2 mL  
**Expiration Date :** September 30, 2025  
**Handling :** This product is photosensitive.

**Lot No.:** A0201940  
**Pkg Amt:** > 1 mL  
**Storage:** 10°C or colder  
**Ship:** Ambient

511539  
↓  
51568  
} 7.P.  
09/19/

## 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   | S230321RSR | 99%    | 1,001.0 µg/mL               | +/- 22.9799                            |
| 2           | Atrazine               | 1912-24-9 | 5FYWL      | 99%    | 1,010.0 µg/mL               | +/- 23.1865                            |
| 3           | Benzidine              | 92-87-5   | S221205RSR | 99%    | 1,008.0 µg/mL               | +/- 23.1406                            |
| 4           | epsilon-Caprolactam    | 105-60-2  | I16X016    | 99%    | 1,008.0 µg/mL               | +/- 23.1406                            |

**Solvent:** Methylene chloride  
**CAS #** 75-09-2  
**Purity** 99%

REVIEWED

By Jennifer Pollino at 7:10 am, Sep 13, 2023

Sam Moodler - Operations Tech I

Date Mixed: 13-Sep-2023

Balance: B345965662

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:

$$U_{combined\ uncertainty} = k \sqrt{u_{gravimetric}^2 + u_{homogeneity}^2 + u_{storage\ stability}^2 + u_{shipping\ stability}^2}$$

$k$  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.



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*



### 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:**

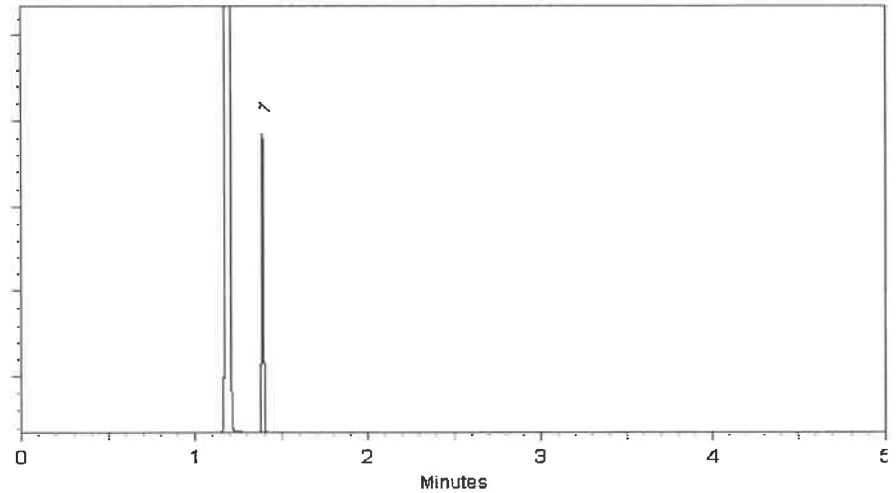
FID

**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*  
Sam Moodler - Operations Tech I

Date Mixed: 30-Mar-2023 Balance Serial # B707717271

*Jennifer Pollino*  
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.

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- 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:

$$U_{combined\ uncertainty} = k \sqrt{u_{gravimetric}^2 + u_{homogeneity}^2 + u_{storage\ stability}^2 + u_{shipping\ stability}^2}$$

$k$  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:

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- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.



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www.restek.com

## CERTIFIED REFERENCE MATERIAL

# 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. :** 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:**

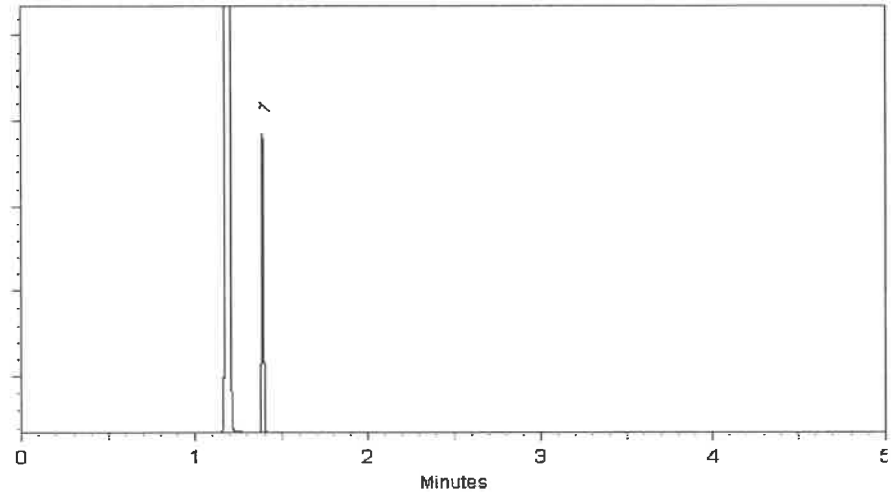
FID

**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*  
Sam Moodler - Operations Tech I

Date Mixed: 30-Mar-2023

Balance Serial # B707717271

*Jennifer Pollino*  
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:

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- 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.

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- 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:

$$U_{combined\ uncertainty} = k \sqrt{u_{gravimetric}^2 + u_{homogeneity}^2 + u_{storage\ stability}^2 + u_{shipping\ stability}^2}$$

$k$  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



## FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

*This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.*

**Catalog No. :** 33913 **Lot No.:** A0201976  
**Description :** SOM01.0 SIM Analysis Standard  
SOM01.0 SIM Analysis Standard 2000µg/mL, Methylene chloride, 1mL /ampul  
**Container Size :** 2 mL **Pkg Amt:** > 1 mL  
**Expiration Date :** August 31, 2029 **Storage:** 10°C or colder  
**Handling:** Sonication required. Mix is photosensitive. **Ship:** Ambient

S11828  
↓  
S11832 } RC/  
11/30/23

## CERTIFIED VALUES

| Elution Order | Compound                | CAS #      | Lot #    | Purity | Grav. Conc. (weight/volume) | Expanded Uncertainty * (95% C.L.; K=2) |
|---------------|-------------------------|------------|----------|--------|-----------------------------|----------------------------------------|
| 1             | 2-Methylnaphthalene-d10 | 7297-45-2  | EF-135   | 98%    | 2,015.9 µg/mL               | +/- 90.8098                            |
| 2             | Fluoranthene-d10        | 93951-69-0 | PR-32557 | 99%    | 2,020.0 µg/mL               | +/- 90.9963                            |

\* Expanded Uncertainty displayed in same units as Grav. Conc.

**Solvent:** Methylene chloride  
**CAS #** 75-09-2  
**Purity** 99%

## Quality Confirmation Test

**Column:**

30m x 0.25mm x 0.25µm  
Rtx-5 (cat.#10223)

**Carrier Gas:**

hydrogen-constant pressure 10 psi.

**Temp. Program:**

75°C (hold 1 min.) to 330°C  
@ 20°C/min. (hold 10 min.)

**Inj. Temp:**

250°C

**Det. Temp:**

330°C

**Det. Type:**

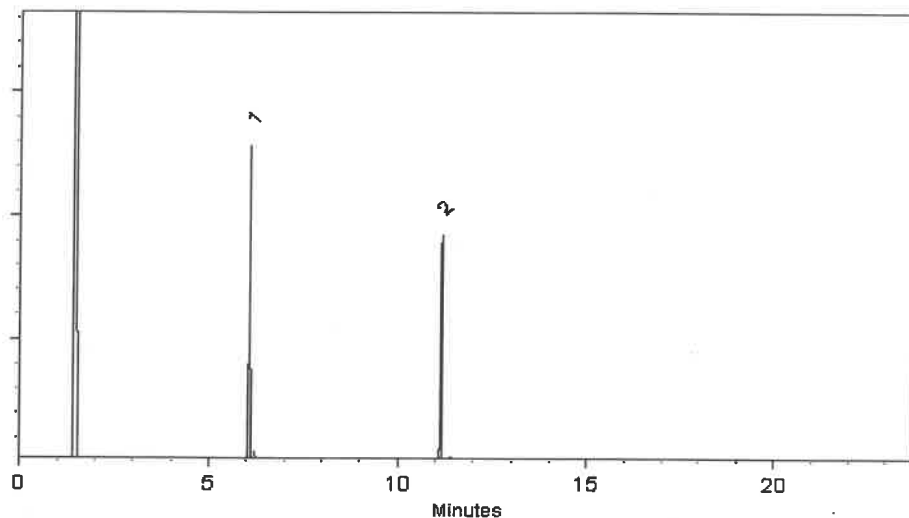
FID

**Split Vent:**

10 ml/min.

**Inj. Vol**

1µl

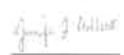


This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

  
Dakota Parson - Operations Technician I

Date Mixed: 13-Sep-2023

Balance Serial # B442140311

  
Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 28-Sep-2023

Manufactured under Restek's ISO 9001:2015  
Registered Quality System  
Certificate #FM 80397

## General Certified Reference Material Notes

### Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

### Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

### Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k \sqrt{u_{gravimetric}^2 + u_{homogeneity}^2 + u_{storage\ stability}^2 + u_{shipping\ stability}^2}$$

$k$  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



### FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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**Catalog No. :** 31206 **Lot No.:** A0201320

**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 :** July 31, 2029 **Storage:** 10°C or colder

**Handling:** Sonication required. Mix is photosensitive. **Ship:** Ambient

S12013  
↓  
S12042 } RC  
12/26/23

### 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%    | 2,017.0 µg/mL               | +/- 90.8469                            |
| 2             | Naphthalene-d8         | 1146-65-2  | M-2180   | 99%    | 2,011.3 µg/mL               | +/- 90.5917                            |
| 3             | Acenaphthene-d10       | 15067-26-2 | PR-33507 | 99%    | 2,008.6 µg/mL               | +/- 90.4685                            |
| 4             | Phenanthrene-d10       | 1517-22-2  | PR-32303 | 99%    | 2,019.4 µg/mL               | +/- 90.9550                            |
| 5             | Chrysene-d12           | 1719-03-5  | PR-32210 | 99%    | 2,013.7 µg/mL               | +/- 90.6968                            |
| 6             | Perylene-d12           | 1520-96-3  | PR-33205 | 99%    | 2,012.7 µg/mL               | +/- 90.6517                            |

\* 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:**

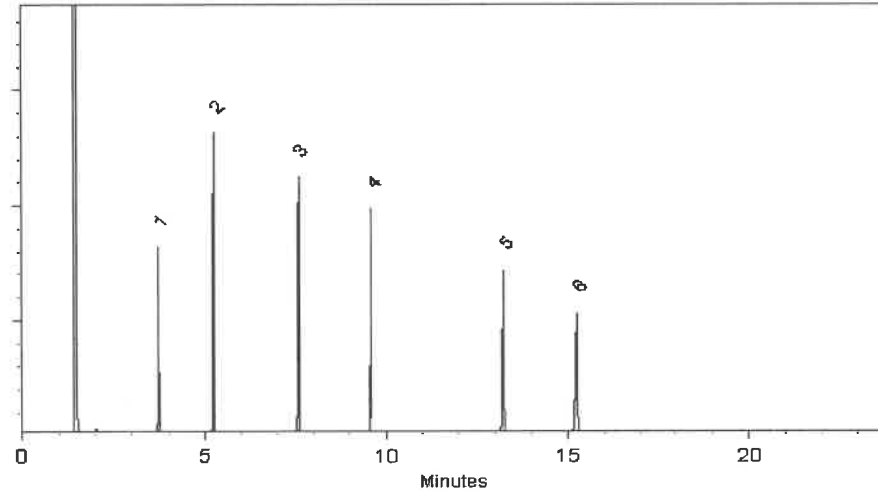
FID

**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.

Peter Robbins - Operations Technician I

Date Mixed: 23-Aug-2023

Balance Serial # B345965662

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 25-Aug-2023

Manufactured under Restek's ISO 9001:2015  
Registered Quality System  
Certificate #FM 80397



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

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|                     |                 |                 |                    |                   |                                           |
|---------------------|-----------------|-----------------|--------------------|-------------------|-------------------------------------------|
| <b>Catalog No.:</b> | <b>Lot No.:</b> | <b>Storage:</b> | <b>Solvent:</b>    | <b>Exp. Date:</b> | <b>Description:</b>                       |
| Z-110816-01         | 414127          | ≤ -10 °C        | Methylene Chloride | 6/21/2025         | Custom 8270 Mix, 4-79,<br>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          |

912075 } RC  
↓  
912079 } 02/01/24

\*Not a certified value

Manufactured by o2si smart solutions, Accredited to ISO 9001:2008 by NSF and ISO/IEC 17025:2005 (Certification No. 3031.01) and ISO Guide 34:2009 (Certification No. 3031.02) by A2LA

Certified By: \_\_\_\_\_

Shane Overcash  
Chemist

All weights are traceable through N. I. S. T. Test No. 822/264157-00.  
Concentration (correct for purity) and uncertainty (95% confidence) values listed are determined gravimetrically.





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Date Received: \_\_\_\_\_

## Certificate of Analysis

Rev 0

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|                     |                 |                 |                    |                   |                                           |
|---------------------|-----------------|-----------------|--------------------|-------------------|-------------------------------------------|
| <b>Catalog No.:</b> | <b>Lot No.:</b> | <b>Storage:</b> | <b>Solvent:</b>    | <b>Exp. Date:</b> | <b>Description:</b>                       |
| Z-110816-01         | 414127          | ≤ -10 °C        | Methylene Chloride | 6/21/2025         | Custom 8270 Mix, 4-79,<br>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          |

912075 } RC  
↓  
912079 } 02/01/24

\*Not a certified value

Manufactured by o2si smart solutions, Accredited to ISO 9001:2008 by NSF and ISO/IEC 17025:2005 (Certification No. 3031.01) and ISO Guide 34:2009 (Certification No. 3031.02) by A2LA

Certified By: \_\_\_\_\_

Shane Overcash  
Chemist

All weights are traceable through N. I. S. T. Test No. 822/264157-00.  
Concentration (correct for purity) and uncertainty (95% confidence) values  
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## CERTIFIED REFERENCE MATERIAL

# 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.:** A0207706

**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 :** February 28, 2026 **Storage:** 10°C or colder

**Ship:** Ambient

512082 } RC/  
↓  
512111 } 02/22/24

### CERTIFIED VALUES

| Component # | Compound                   | CAS #    | Lot #        | Purity | Grav. Conc. (weight/volume) | Expanded Uncertainty * (95% C.L.; K=2) |
|-------------|----------------------------|----------|--------------|--------|-----------------------------|----------------------------------------|
| 1           | 1,2,4,5-Tetrachlorobenzene | 95-94-3  | MKCT9480     | 99%    | 1,001.0 µg/mL               | +/- 29.424320                          |
| 2           | Acetophenone               | 98-86-2  | STBH8205     | 99%    | 1,004.0 µg/mL               | +/- 29.512504                          |
| 3           | Benzaldehyde               | 100-52-7 | RD231129RSRA | 99%    | 1,005.0 µg/mL               | +/- 29.541899                          |
| 4           | Benzoic acid               | 65-85-0  | MKCR2694     | 99%    | 1,003.0 µg/mL               | +/- 29.483110                          |
| 5           | Biphenyl                   | 92-52-4  | MKCL6515     | 99%    | 1,006.0 µg/mL               | +/- 29.571294                          |

**Solvent:** Methylene chloride  
**CAS #** 75-09-2  
**Purity** 99%

Manufactured under Restek's ISO 9001:2015  
Registered Quality System  
Certificate #FM 80397

John Friedline - Operations Technician I

Date Mixed: 12-Feb-2024

Balance: B345965662



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CERTIFIED REFERENCE MATERIAL

# 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.:** A0207706

**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 :** February 28, 2026 **Storage:** 10°C or colder

**Ship:** Ambient

512082 } RC/  
↓  
512111 } 02/22/24

## CERTIFIED VALUES

| Component # | Compound                   | CAS #    | Lot #        | Purity | Grav. Conc. (weight/volume) | Expanded Uncertainty * (95% C.L.; K=2) |
|-------------|----------------------------|----------|--------------|--------|-----------------------------|----------------------------------------|
| 1           | 1,2,4,5-Tetrachlorobenzene | 95-94-3  | MKCT9480     | 99%    | 1,001.0 µg/mL               | +/- 29.424320                          |
| 2           | Acetophenone               | 98-86-2  | STBH8205     | 99%    | 1,004.0 µg/mL               | +/- 29.512504                          |
| 3           | Benzaldehyde               | 100-52-7 | RD231129RSRA | 99%    | 1,005.0 µg/mL               | +/- 29.541899                          |
| 4           | Benzoic acid               | 65-85-0  | MKCR2694     | 99%    | 1,003.0 µg/mL               | +/- 29.483110                          |
| 5           | Biphenyl                   | 92-52-4  | MKCL6515     | 99%    | 1,006.0 µg/mL               | +/- 29.571294                          |

**Solvent:** Methylene chloride  
**CAS #** 75-09-2  
**Purity** 99%

Manufactured under Restek's ISO 9001:2015  
Registered Quality System  
Certificate #FM 80397

John Friedline - Operations Technician I

Date Mixed: 12-Feb-2024

Balance: B345965662



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Manufacturer's Quality System  
Audited & Registered  
by TUV USA to ISO 9001:2015

Date Received: \_\_\_\_\_

## Certificate of Analysis

Rev 0

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| 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,<br>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        |

512112 } RC/  
↓  
912116 } 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 gravimetrically.



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## CERTIFIED REFERENCE MATERIAL

# 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. :** 31850 **Lot No.:** A0203726

**Description :** 8270 MegaMix®  
8270 MegaMix® 500-1000 µg/mL, Methylene Chloride, 1mL/ampul

**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

512117 } RC/  
↓ 03/18/24  
512146

### 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 | BCKK0887      | 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%



110 Benner Circle  
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## CERTIFIED REFERENCE MATERIAL

# 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. :** 31850 **Lot No.:** A0203726

**Description :** 8270 MegaMix®  
8270 MegaMix® 500-1000 µg/mL, Methylene Chloride, 1mL/ampul

**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

512117 } RC/  
↓ 03/18/24  
512146 }

### 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 | BCKK0887      | 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%



110 Benner Circle  
Bellefonte, PA 16823-8812  
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Fax: 1-814-353-1309

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## CERTIFIED REFERENCE MATERIAL

# 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. :** 31850 **Lot No.:** A0203726

**Description :** 8270 MegaMix®  
8270 MegaMix® 500-1000 µg/mL, Methylene Chloride, 1mL/ampul

**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

512117 } RC/  
↓ 03/18/24  
512146 }

### 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 | BCKK0887      | 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%



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## CERTIFIED REFERENCE MATERIAL

# 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. :** 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

512187 } RC/  
↓ } 03/18/24  
512206 }

### 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:**

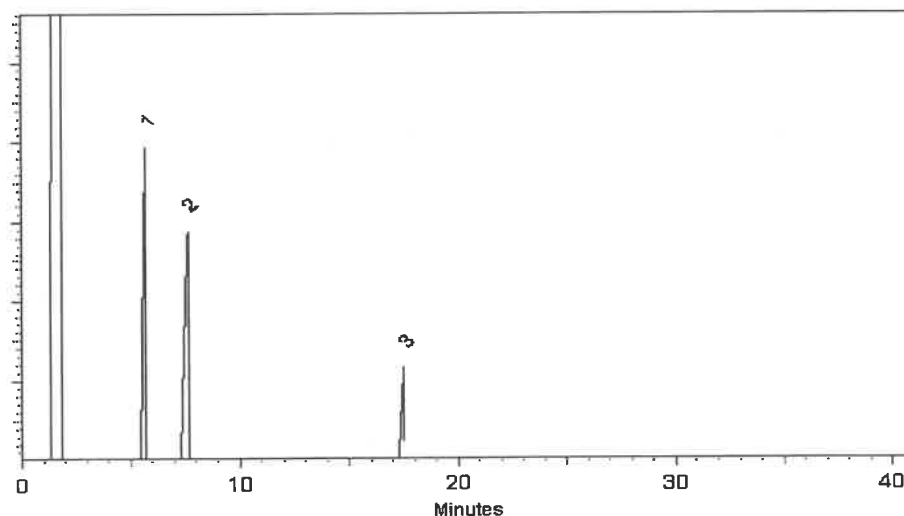
FID

**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 S. Riglin*

Penelope Riglin - Operations Tech I

Date Mixed: 04-Jan-2024

Balance Serial # 1128360905

*Christie Mills*

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



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## CERTIFIED REFERENCE MATERIAL

# Certificate of Analysis

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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. :** 31086 **Lot No.:** A0206381  
**Description :** B/N Surrogate Mix (4/89 SOW)  
Base Neutral Surrogate 5000µg/mL, Methylene Chloride, 5mL/ampul  
**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

S12207 } RC/  
↓  
S12221 } 03/18/24

### 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-S (cat.#10223)

**Carrier Gas:**

hydrogen-constant pressure 10 psi.

**Temp. Program:**

40°C (hold 2 min.) to 330°C  
@ 10°C/min. (hold 10 min.)

**Inj. Temp:**

250°C

**Det. Temp:**

330°C

**Det. Type:**

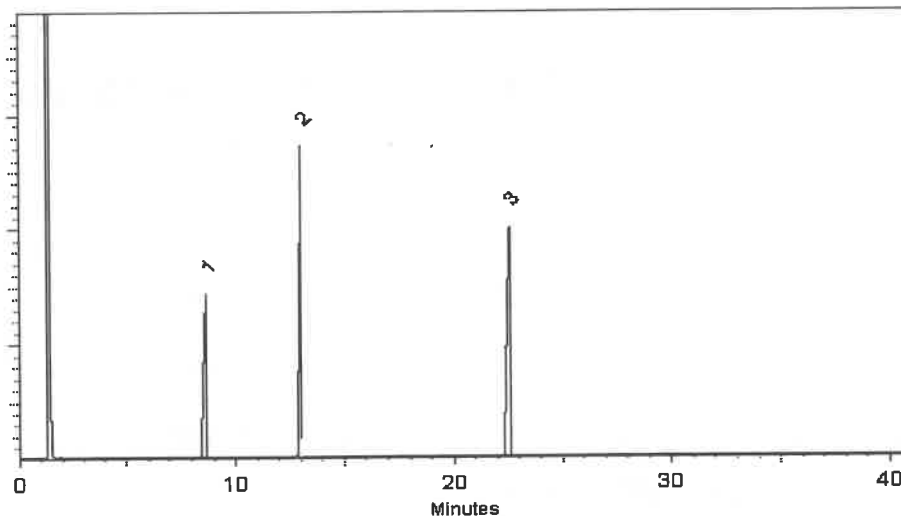
FID

**Split Vent:**

2 ml/min.

**Inj. Vol**

1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Jess Hoy - Operations Tech I

Date Mixed: 09-Jan-2024 Balance Serial # 1128360905

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 11-Jan-2024

Manufactured under Restek's ISO 9001:2015  
Registered Quality System  
Certificate #FM 80397



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## CERTIFIED REFERENCE MATERIAL

# 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  
**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

S12207 } RC/  
↓  
S12221 } 03/18/24

### 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-S (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:**

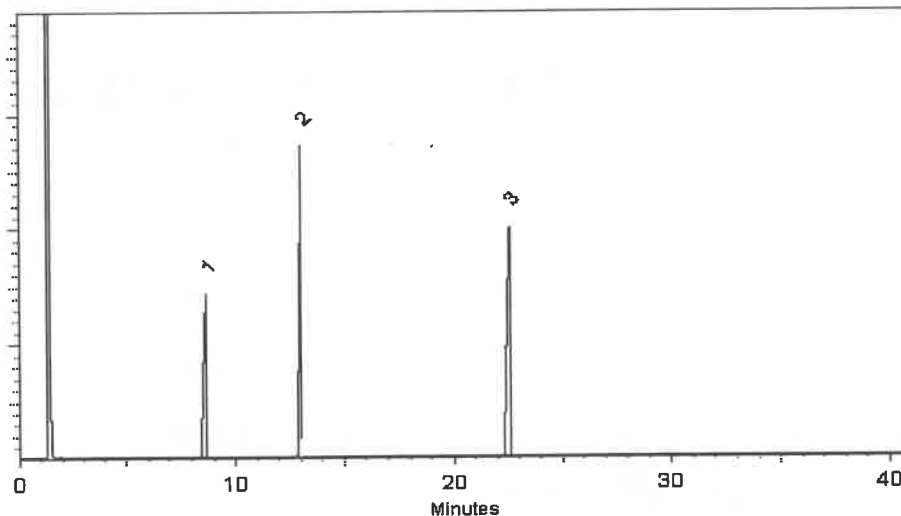
FID

**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

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Certificate #FM 80397



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CERTIFIED REFERENCE MATERIAL

# 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.:** 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

S12312 } RC/  
↓ 05/30/24  
S12331

## 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:**

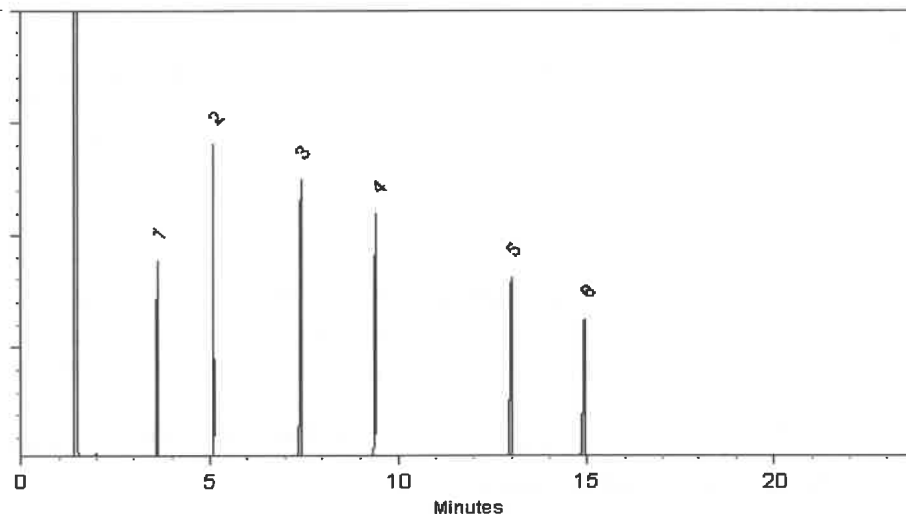
FID

**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*  
**Malina Homan - Operations Technician I**

**Date Mixed:** 12-Jan-2024

**Balance Serial #** 1128360905

*Jennifer Pollino*  
**Jennifer Pollino - Operations Tech III - ARM QC**

**Date Passed:** 16-Jan-2024

Manufactured under Restek's ISO 9001:2015  
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CERTIFIED REFERENCE MATERIAL

## Certificate of Analysis

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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. :** 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

S12312 } RC/  
↓ 05/30/24  
S12331

### 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:**

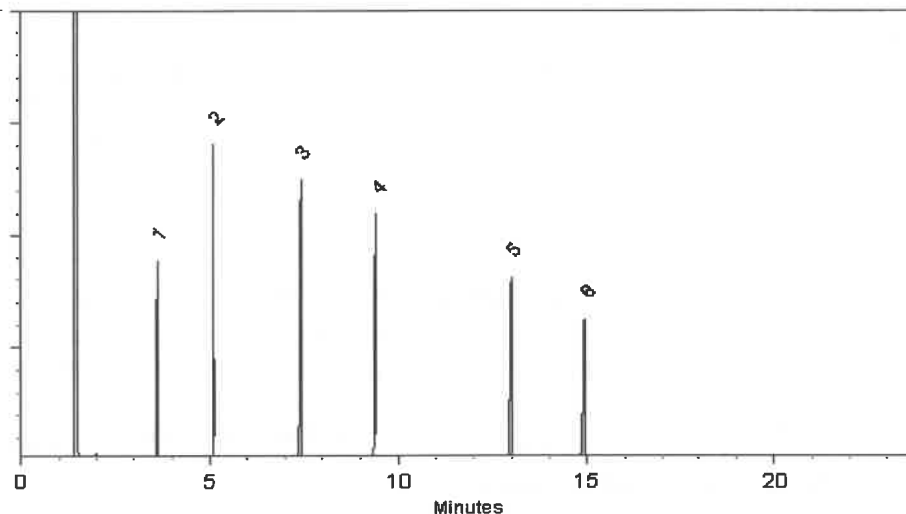
FID

**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*  
Malina Homan - Operations Technician I

Date Mixed: 12-Jan-2024

Balance Serial # 1128360905

*Jennifer Pollino*  
Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 16-Jan-2024

Manufactured under Restek's ISO 9001:2015  
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Certificate #FM 80397



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## CERTIFIED REFERENCE MATERIAL

# 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. :** 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 } RC/  
↓ 7/24/24  
S12508 }

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:

$$U_{combined\ uncertainty} = k \sqrt{u_{gravimetric}^2 + u_{homogeneity}^2 + u_{storage\ stability}^2 + u_{shipping\ stability}^2}$$

$k$  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.



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

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. :** 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 } RC/  
↓  
S12508 } 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:

$$U_{combined\ uncertainty} = k \sqrt{u_{gravimetric}^2 + u_{homogeneity}^2 + u_{storage\ stability}^2 + u_{shipping\ stability}^2}$$

$k$  is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

### Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

### Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.



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## CERTIFIED REFERENCE MATERIAL

# Certificate of Analysis

gravimetric



### 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 } RC/  
↓  
S12568 } 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:

$$U_{combined\ uncertainty} = k \sqrt{u_{gravimetric}^2 + u_{homogeneity}^2 + u_{storage\ stability}^2 + u_{shipping\ stability}^2}$$

$k$  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.

Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN112524\  
 Data File : BN035297.D  
 Acq On : 26 Nov 2024 01:26  
 Operator : RC/JU  
 Sample : P4959-01  
 Misc :  
 ALS Vial : 73 Sample Multiplier: 1

Instrument :  
 BNA\_N  
 ClientSampleId :  
 RW5-SP100-20241121

Quant Time: Nov 26 02:54:43 2024  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\8270-SIM-BN112524.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Tue Nov 26 02:36:08 2024  
 Response via : Initial Calibration

Manual Integrations  
 APPROVED

Reviewed By :Yogesh Patel 11/27/2024  
 Supervised By :mohammad ahmed 11/27/2024

| Compound                    | R.T.   | QIon | Response | Conc   | Units | Dev(Min) |
|-----------------------------|--------|------|----------|--------|-------|----------|
| -----                       |        |      |          |        |       |          |
| Internal Standards          |        |      |          |        |       |          |
| 1) 1,4-Dichlorobenzene-d4   | 7.315  | 152  | 3474     | 0.400  | ng    | 0.00     |
| 7) Naphthalene-d8           | 10.063 | 136  | 8594     | 0.400  | ng    | # 0.00   |
| 13) Acenaphthene-d10        | 13.973 | 164  | 5314     | 0.400  | ng    | # 0.00   |
| 19) Phenanthrene-d10        | 16.741 | 188  | 12516    | 0.400  | ng    | # 0.00   |
| 29) Chrysene-d12            | 21.006 | 240  | 912      | 0.400  | ng    | # 0.00   |
| 35) Perylene-d12            | 23.078 | 264  | 6981     | 0.400  | ng    | 0.00     |
| System Monitoring Compounds |        |      |          |        |       |          |
| 4) 2-Fluorophenol           | 4.968  | 112  | 1086     | 0.165  | ng    | 0.00     |
| 5) Phenol-d6                | 6.521  | 99   | 751      | 0.082  | ng    | 0.00     |
| 8) Nitrobenzene-d5          | 8.451  | 82   | 1671m    | 0.240  | ng    | 0.00     |
| 11) 2-Methylnaphthalene-d10 | 11.663 | 152  | 5726     | 0.476  | ng    | 0.00     |
| 14) 2,4,6-Tribromophenol    | 15.480 | 330  | 885      | 0.326  | ng    | 0.00     |
| 15) 2-Fluorobiphenyl        | 12.604 | 172  | 1025     | 0.349  | ng    | 0.00     |
| 27) Fluoranthene-d10        | 18.790 | 212  | 16757    | 0.500  | ng    | 0.00     |
| 31) Terphenyl-d14           | 19.417 | 244  | 12231    | 0.726  | ng    | 0.00     |
| Target Compounds            |        |      |          |        |       |          |
| 2) 1,4-Dioxane              | 3.003  | 88   | 28516    | 11.419 | ng    | # 70     |
| 6) bis(2-Chloroethyl)ether  | 6.766  | 93   | 518      | 0.067  | ng    | 96       |
| -----                       |        |      |          |        |       |          |

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

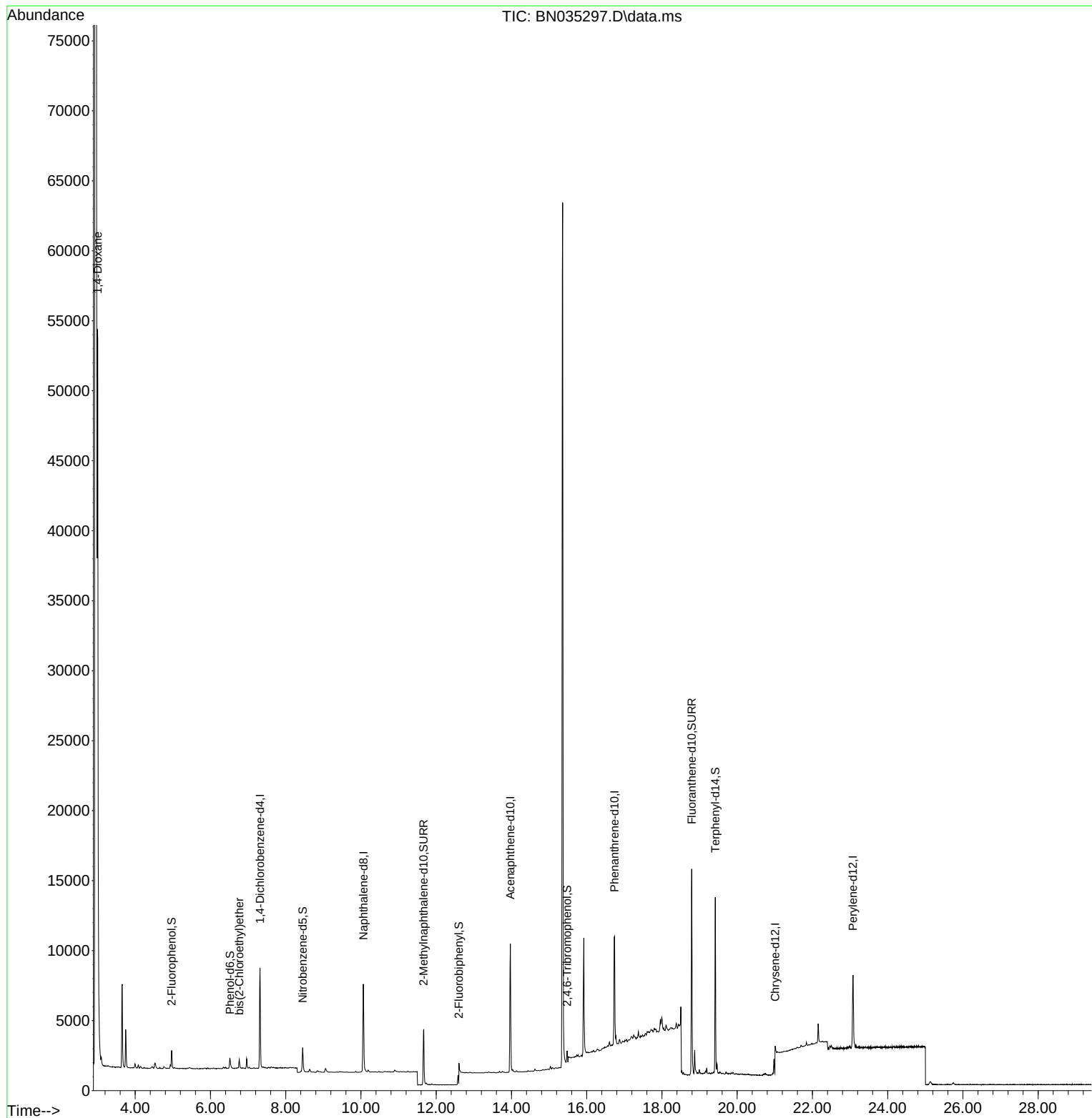
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Data File : BN035297.D  
Acq On : 26 Nov 2024 01:26  
Operator : RC/JU  
Sample : P4959-01  
Misc :  
ALS Vial : 73 Sample Multiplier: 1

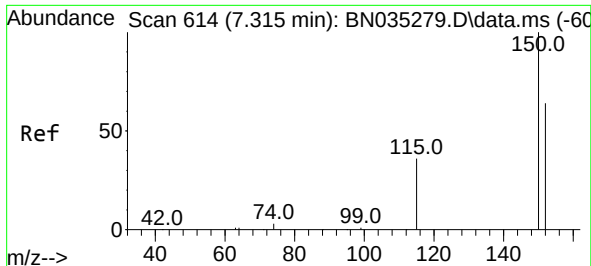
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ClientSampleId :  
RW5-SP100-20241121

Quant Time: Nov 26 02:54:43 2024  
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Tue Nov 26 02:36:08 2024  
Response via : Initial Calibration

Manual Integrations  
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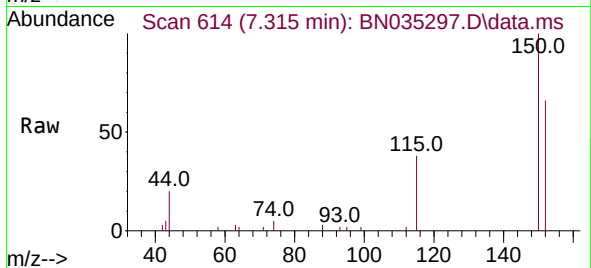
Reviewed By :Yogesh Patel 11/27/2024  
Supervised By :mohammad ahmed 11/27/2024





#1  
1,4-Dichlorobenzene-d4  
Concen: 0.400 ng  
RT: 7.315 min Scan# 614  
Delta R.T. 0.000 min  
Lab File: BN035297.D  
Acq: 26 Nov 2024 01:26

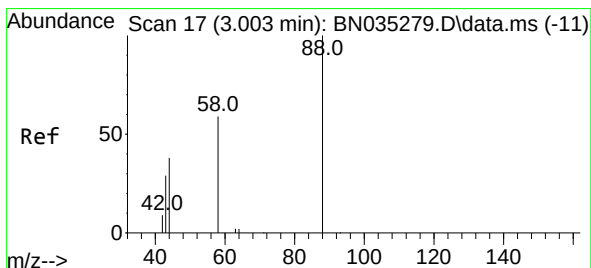
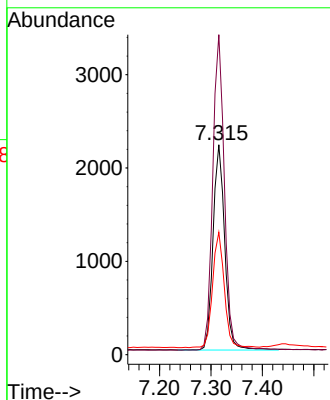
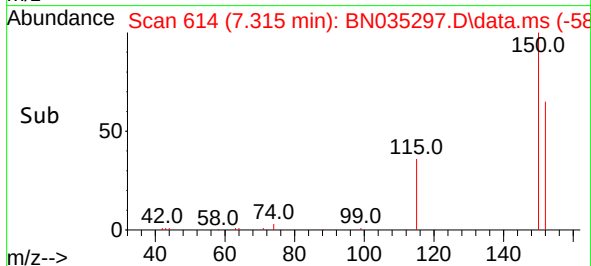
Instrument :  
BNA\_N  
ClientSampleId :  
RW5-SP100-20241121



Tgt Ion: 152 Resp: 3474  
Ion Ratio Lower Upper  
152 100  
150 152.5 124.5 186.7  
115 58.3 47.8 71.8

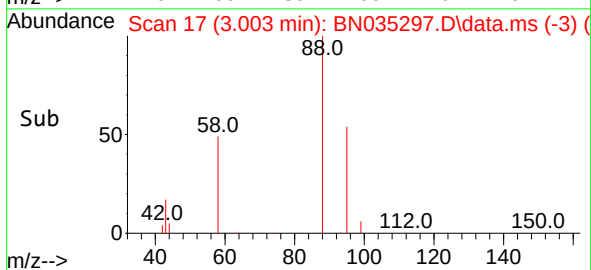
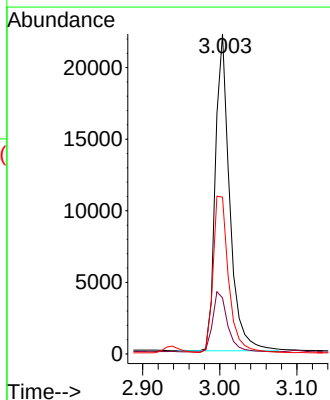
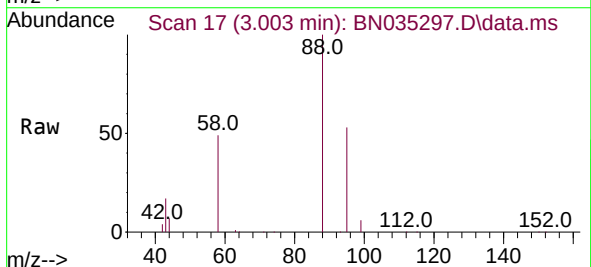
Manual Integrations  
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Reviewed By :Yogesh Patel 11/27/2024  
Supervised By :mohammad ahmed 11/27/2024

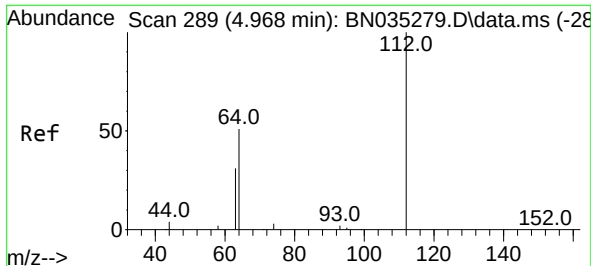


#2  
1,4-Dioxane  
Concen: 11.419 ng  
RT: 3.003 min Scan# 17  
Delta R.T. 0.000 min  
Lab File: BN035297.D  
Acq: 26 Nov 2024 01:26

Tgt Ion: 88 Resp: 28516  
Ion Ratio Lower Upper  
88 100  
43 19.7 48.1 72.1#  
58 53.5 46.9 70.3







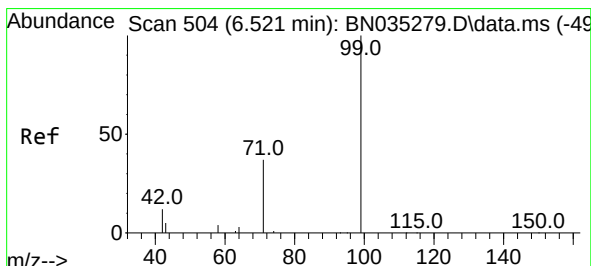
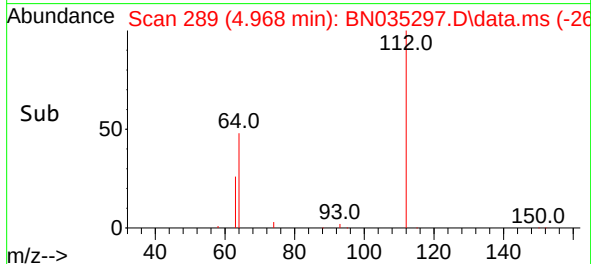
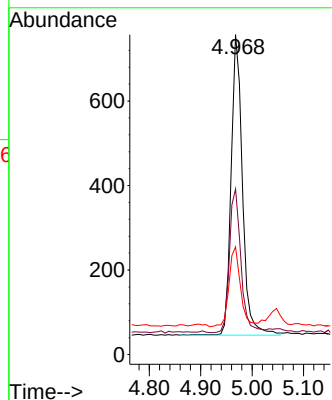
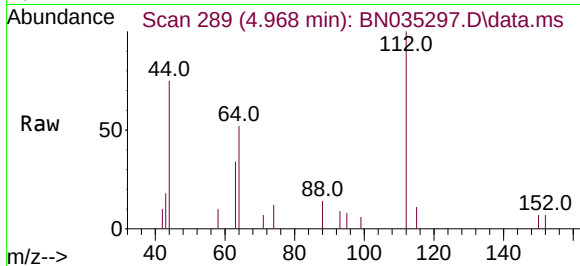
#4  
2-Fluorophenol  
Concen: 0.165 ng  
RT: 4.968 min Scan# 289  
Delta R.T. 0.000 min  
Lab File: BN035297.D  
Acq: 26 Nov 2024 01:26

Instrument :  
BNA\_N  
ClientSampleId :  
RW5-SP100-20241121

Tgt Ion:112 Resp: 1080  
Ion Ratio Lower Upper  
112 100  
64 48.4 40.4 60.6  
63 27.0 23.8 35.8

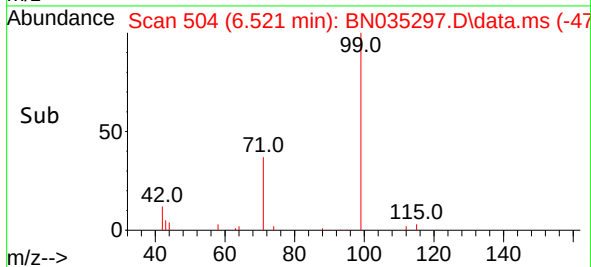
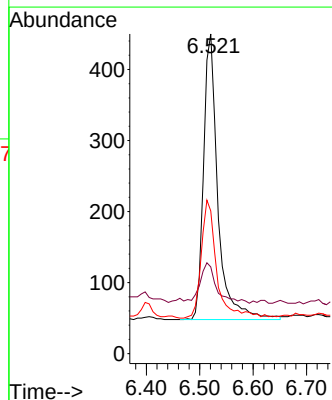
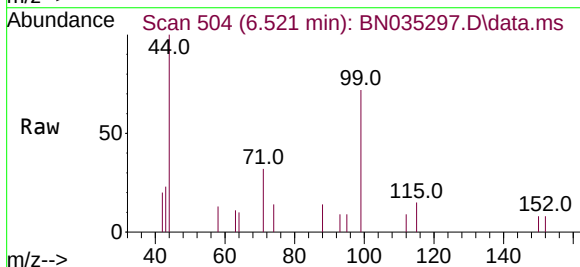
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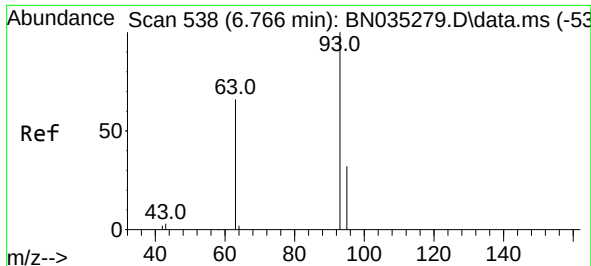
Reviewed By :Yogesh Patel 11/27/2024  
Supervised By :mohammad ahmed 11/27/2024



#5  
Phenol-d6  
Concen: 0.082 ng  
RT: 6.521 min Scan# 504  
Delta R.T. 0.000 min  
Lab File: BN035297.D  
Acq: 26 Nov 2024 01:26

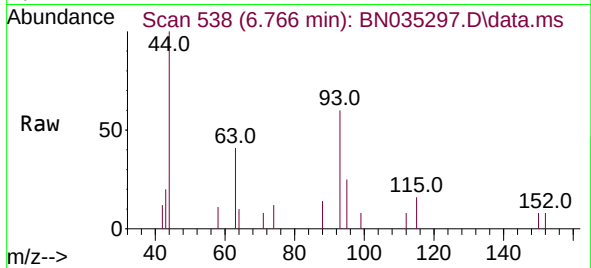
Tgt Ion: 99 Resp: 751  
Ion Ratio Lower Upper  
99 100  
42 16.2 12.8 19.2  
71 45.0 31.4 47.2





#6  
bis(2-Chloroethyl)ether  
Concen: 0.067 ng  
RT: 6.766 min Scan# 538  
Delta R.T. 0.000 min  
Lab File: BN035297.D  
Acq: 26 Nov 2024 01:26

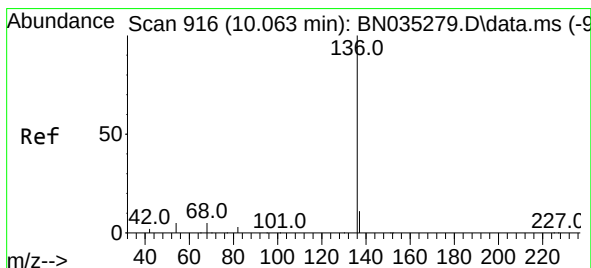
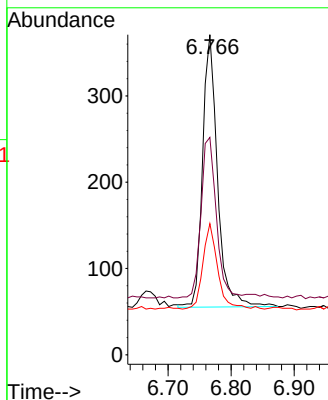
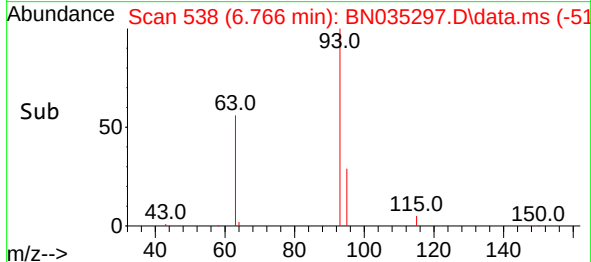
Instrument :  
BNA\_N  
ClientSampleId :  
RW5-SP100-20241121



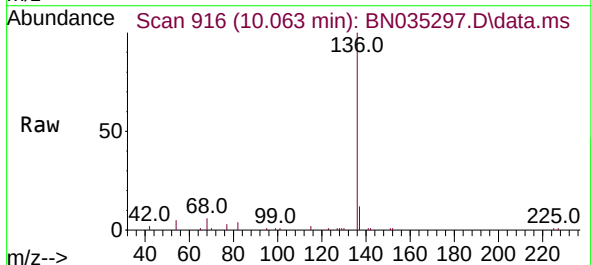
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Ion Ratio Lower Upper  
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95 31.5 25.5 38.3

Manual Integrations  
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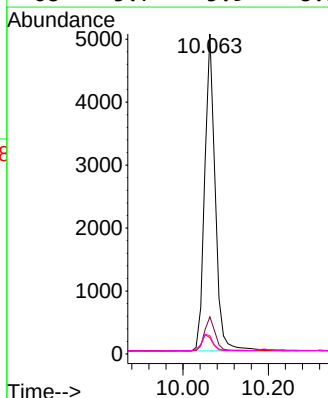
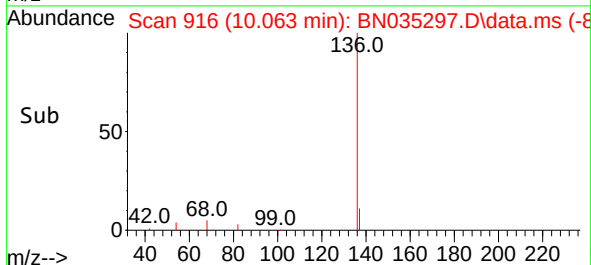
Reviewed By :Yogesh Patel 11/27/2024  
Supervised By :mohammad ahmed 11/27/2024

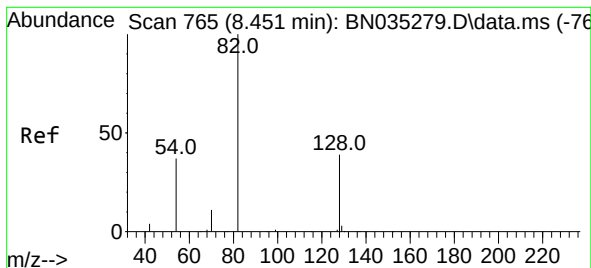


#7  
Naphthalene-d8  
Concen: 0.400 ng  
RT: 10.063 min Scan# 916  
Delta R.T. 0.000 min  
Lab File: BN035297.D  
Acq: 26 Nov 2024 01:26



Tgt Ion:136 Resp: 8594  
Ion Ratio Lower Upper  
136 100  
137 11.6 9.7 14.5  
54 5.1 5.3 7.9#  
68 5.7 5.9 8.9#





#8

Nitrobenzene-d5

Concen: 0.240 ng m

RT: 8.451 min Scan# 70

Delta R.T. 0.000 min

Lab File: BN035297.D

Acq: 26 Nov 2024 01:26

Instrument :

BNA\_N

ClientSampleId :

RW5-SP100-20241121

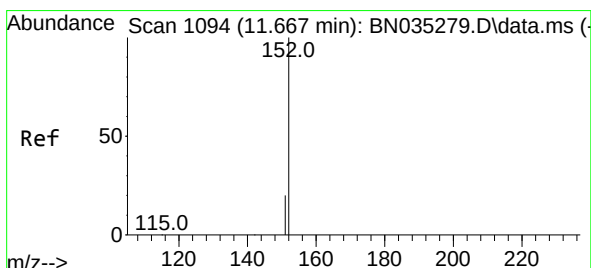
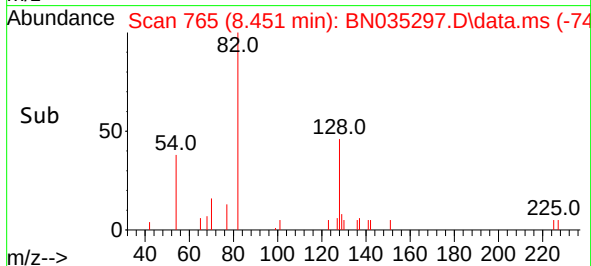
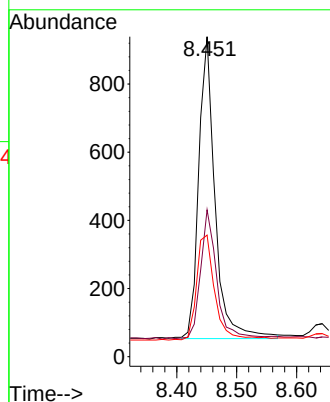
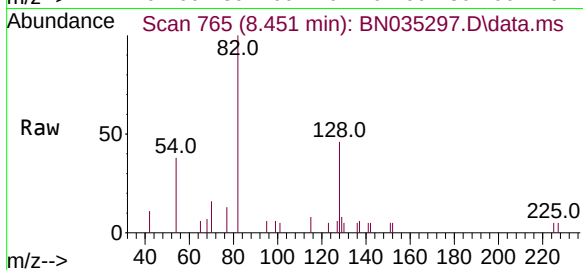
|           |       |       |      |
|-----------|-------|-------|------|
| Tgt Ion:  | 82    | Resp: | 167  |
| Ion Ratio | Lower | Upper |      |
| 82        | 100   |       |      |
| 128       | 45.9  | 33.0  | 49.4 |
| 54        | 38.0  | 33.3  | 49.9 |

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 11/27/2024

Supervised By :mohammad ahmed 11/27/2024



#11

2-Methylnaphthalene-d10

Concen: 0.476 ng

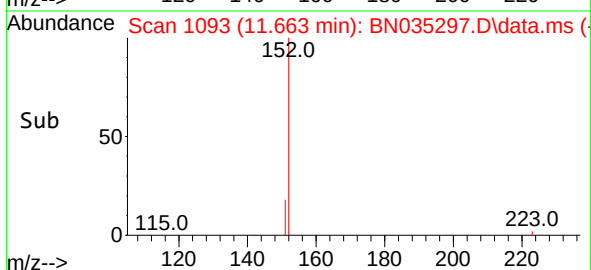
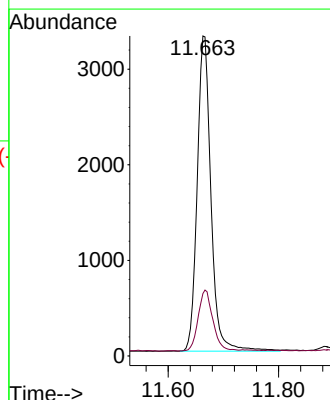
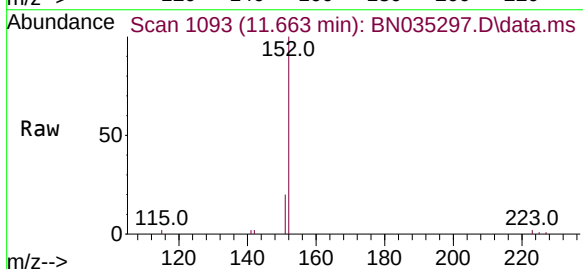
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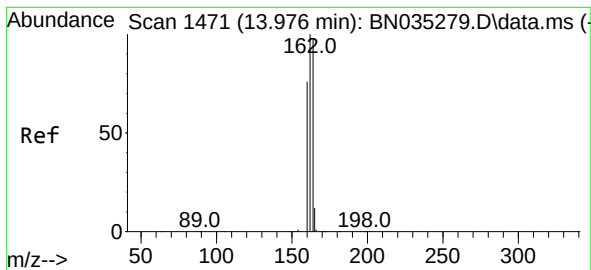
Delta R.T. -0.004 min

Lab File: BN035297.D

Acq: 26 Nov 2024 01:26

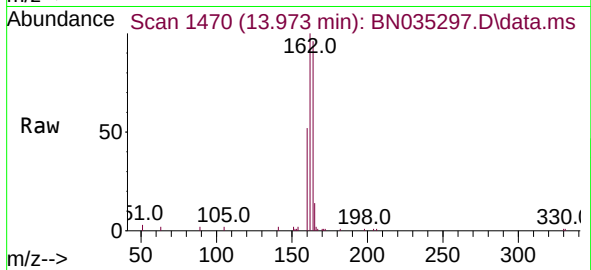
|           |       |       |      |
|-----------|-------|-------|------|
| Tgt Ion:  | 152   | Resp: | 5726 |
| Ion Ratio | Lower | Upper |      |
| 152       | 100   |       |      |
| 151       | 20.5  | 17.2  | 25.8 |





#13  
Acenaphthene-d10  
Concen: 0.400 ng  
RT: 13.973 min Scan# 1470  
Delta R.T. -0.004 min  
Lab File: BN035297.D  
Acq: 26 Nov 2024 01:26

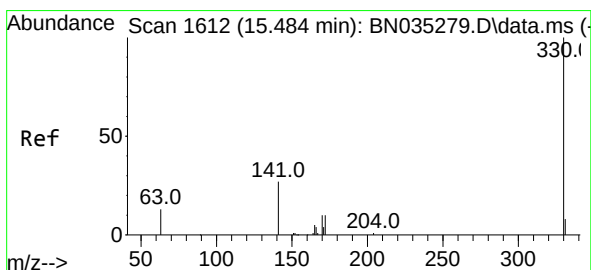
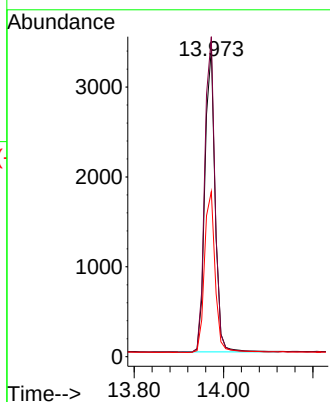
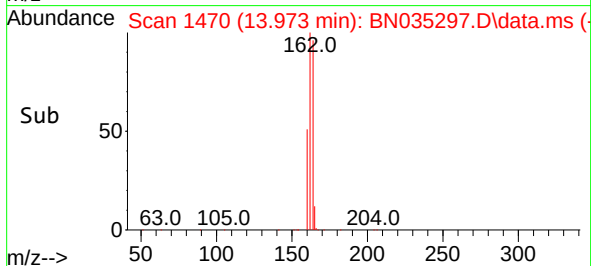
Instrument :  
BNA\_N  
ClientSampleId :  
RW5-SP100-20241121



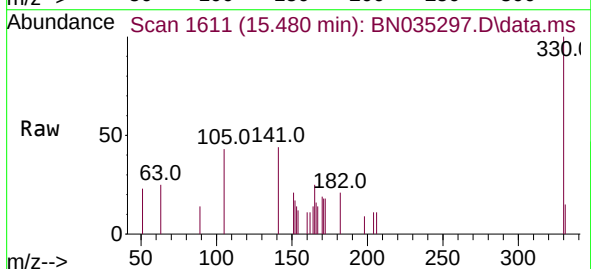
Tgt Ion:164 Resp: 5314  
Ion Ratio Lower Upper  
164 100  
162 103.9 82.0 123.0  
160 53.6 63.0 94.4

Manual Integrations  
APPROVED

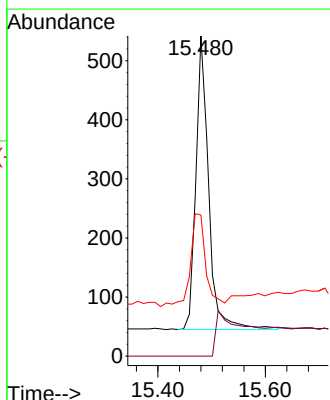
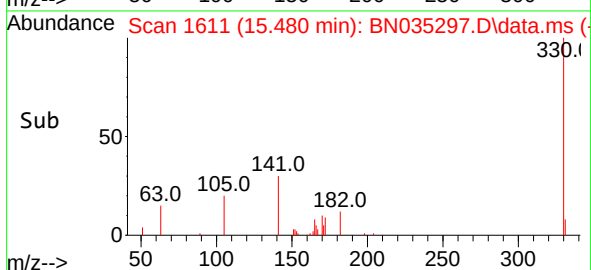
Reviewed By :Yogesh Patel 11/27/2024  
Supervised By :mohammad ahmed 11/27/2024

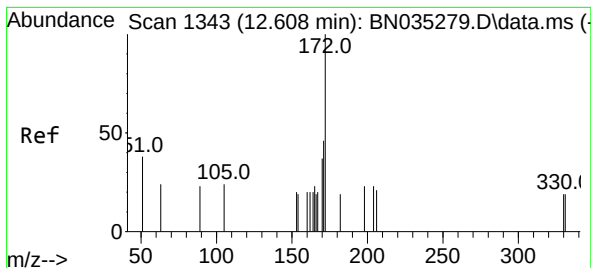


#14  
2,4,6-Tribromophenol  
Concen: 0.326 ng  
RT: 15.480 min Scan# 1611  
Delta R.T. -0.004 min  
Lab File: BN035297.D  
Acq: 26 Nov 2024 01:26



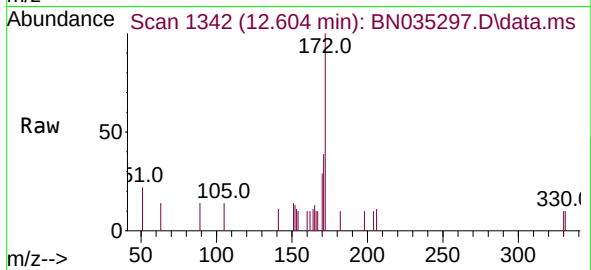
Tgt Ion:330 Resp: 885  
Ion Ratio Lower Upper  
330 100  
332 0.0 0.0 0.0  
141 35.4 32.4 48.6





#15  
2-Fluorobiphenyl  
Concen: 0.349 ng  
RT: 12.604 min Scan# 1343  
Delta R.T. -0.004 min  
Lab File: BN035297.D  
Acq: 26 Nov 2024 01:26

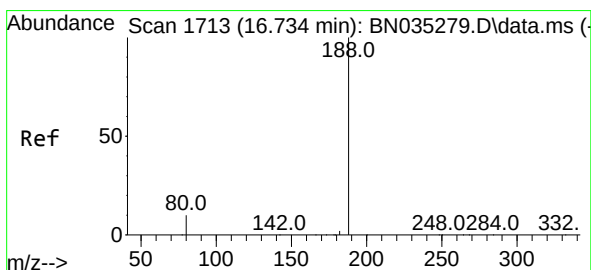
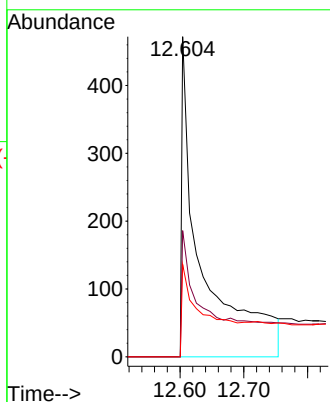
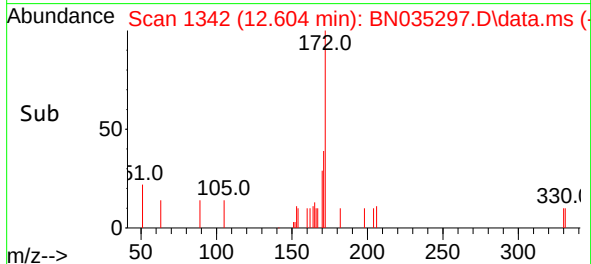
Instrument :  
BNA\_N  
ClientSampleId :  
RW5-SP100-20241121



Tgt Ion:172 Resp: 1025  
Ion Ratio Lower Upper  
172 100  
171 39.4 36.6 55.0  
170 28.8 29.7 44.5

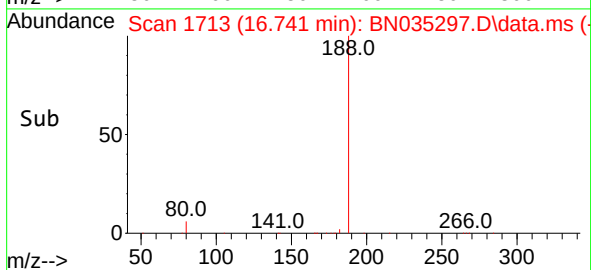
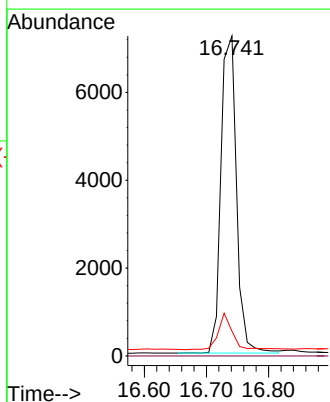
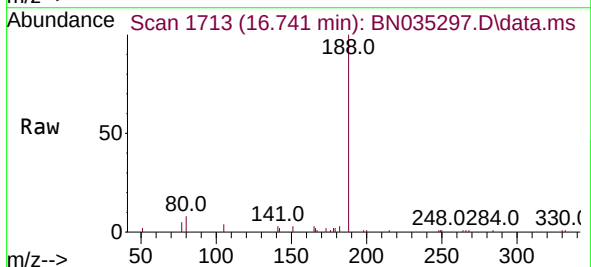
Manual Integrations  
APPROVED

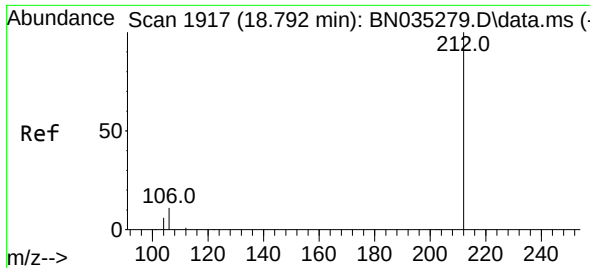
Reviewed By :Yogesh Patel 11/27/2024  
Supervised By :mohammad ahmed 11/27/2024



#19  
Phenanthrene-d10  
Concen: 0.400 ng  
RT: 16.741 min Scan# 1713  
Delta R.T. 0.007 min  
Lab File: BN035297.D  
Acq: 26 Nov 2024 01:26

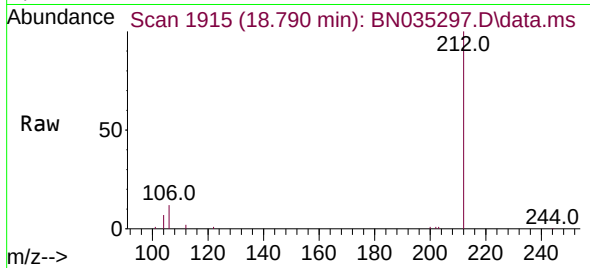
Tgt Ion:188 Resp: 12516  
Ion Ratio Lower Upper  
188 100  
94 0.0 0.0 0.0  
80 7.8 8.9 13.3





#27  
Fluoranthene-d10  
Concen: 0.500 ng  
RT: 18.790 min Scan# 1915  
Delta R.T. -0.002 min  
Lab File: BN035297.D  
Acq: 26 Nov 2024 01:26

Instrument :  
BNA\_N  
ClientSampleId :  
RW5-SP100-20241121



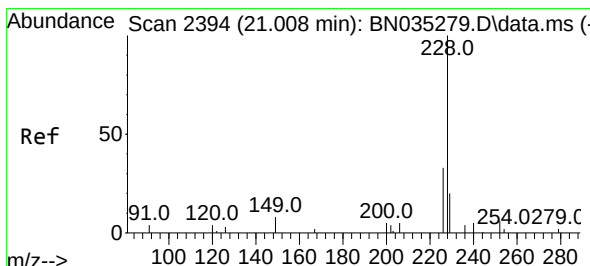
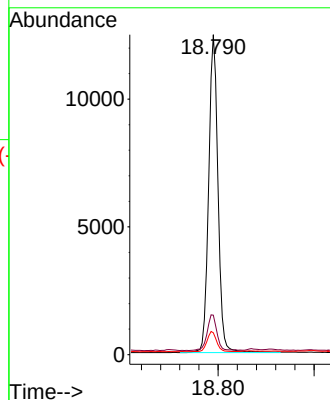
Tgt Ion:212 Resp: 1675  
Ion Ratio Lower Upper  
212 100  
106 11.8 9.8 14.8  
104 6.4 5.6 8.4

Manual Integrations  
APPROVED

Reviewed By :Yogesh  
Patel

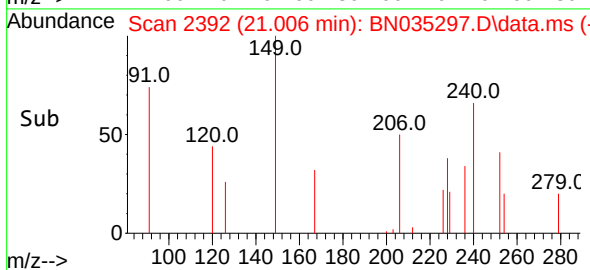
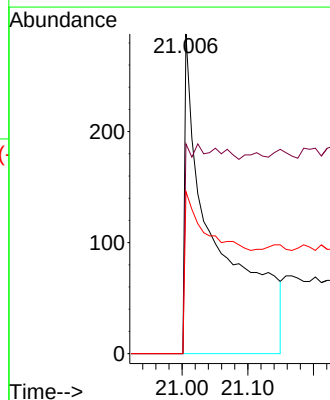
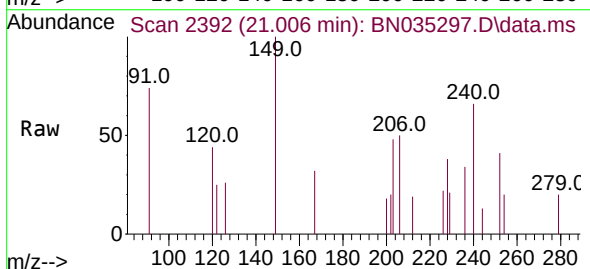
11/27/2024  
Supervised By :mohammad  
ahmed

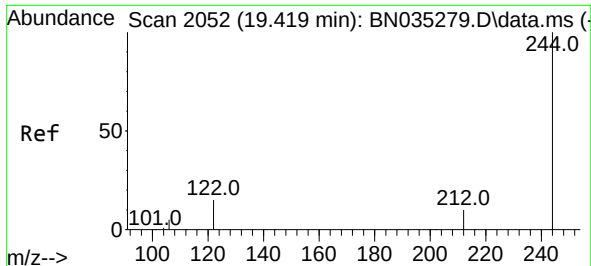
11/27/2024



#29  
Chrysene-d12  
Concen: 0.400 ng  
RT: 21.006 min Scan# 2392  
Delta R.T. -0.002 min  
Lab File: BN035297.D  
Acq: 26 Nov 2024 01:26

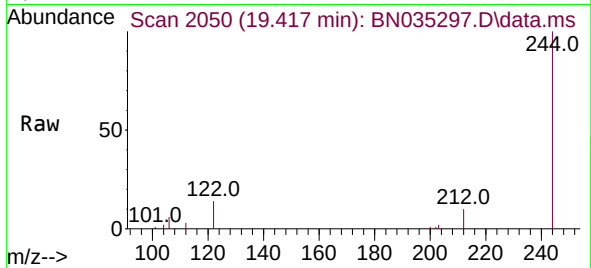
Tgt Ion:240 Resp: 912  
Ion Ratio Lower Upper  
240 100  
120 65.6 54.9 82.3  
236 50.7 54.0 81.0#





#31  
Terphenyl-d14  
Concen: 0.726 ng  
RT: 19.417 min Scan# 2052  
Delta R.T. -0.002 min  
Lab File: BN035297.D  
Acq: 26 Nov 2024 01:26

Instrument :  
BNA\_N  
ClientSampleId :  
RW5-SP100-20241121



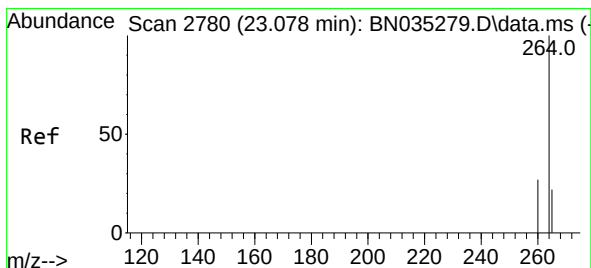
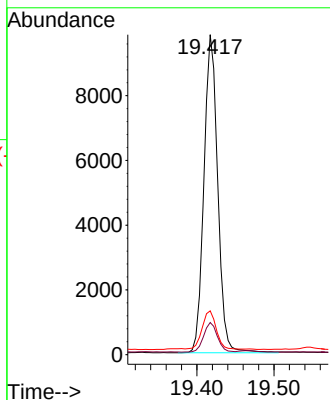
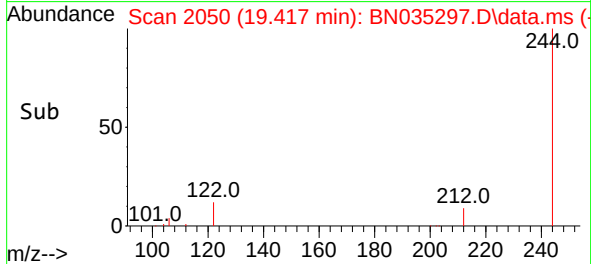
Tgt Ion:244 Resp: 1223  
Ion Ratio Lower Upper  
244 100  
212 10.0 9.4 14.0  
122 13.7 13.0 19.4

Manual Integrations  
APPROVED

Reviewed By :Yogesh  
Patel

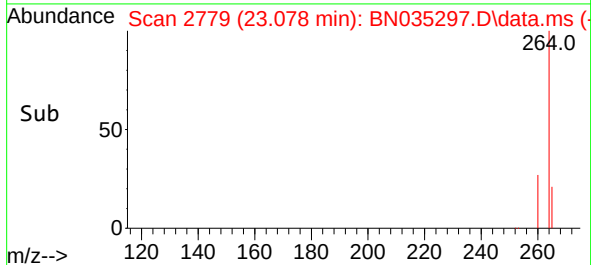
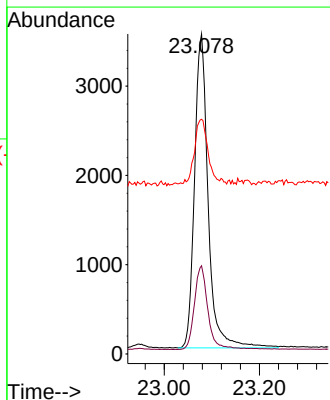
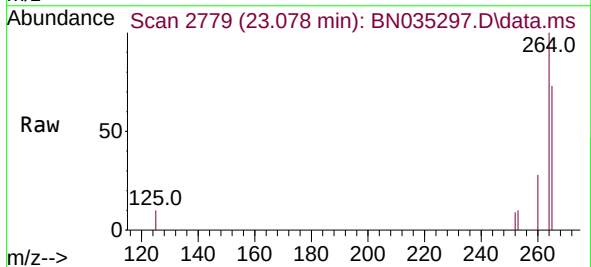
11/27/2024  
Supervised By :mohammad  
ahmed

11/27/2024



#35  
Perylene-d12  
Concen: 0.400 ng  
RT: 23.078 min Scan# 2779  
Delta R.T. 0.001 min  
Lab File: BN035297.D  
Acq: 26 Nov 2024 01:26

Tgt Ion:264 Resp: 6981  
Ion Ratio Lower Upper  
264 100  
260 27.5 22.3 33.5  
265 73.4 68.6 103.0





# SHIPPING DOCUMENTS



**CHEMTECH**

CHAIN OF CUSTODY RECORD

284 Sheffield Street, Mountainside, NJ 07092

(908) 789-8900 Fax: (908) 78-8922

www.chemtech.net

Chemtech Project Number:

P4959

COC Number:

## CLIENT INFORMATION

COMPANY: Tetra Tech

ADDRESS: 4433 Corporation Ln, Suite 300

CITY: Virginia Beach STATE: VA ZIP: 23462

ATTENTION: Ernie Wu

PHONE: 757-466-4901 FAX: 757-461-4148

## PROJECT INFORMATION

PROJECT NAME: NWIRP Bethpage

PROJECT #: 112G08005-WE13 LOCATION: RW5B

PROJECT MANAGER: Ernie Wu

E-MAIL: ernie.wu@tetrattech.com

PHONE: 757-466-4901 FAX: 757-461-4148

## BILLING INFORMATION

BILL TO:

PO#

ADDRESS:

CITY:

STATE: ZIP:

ATTENTION:

PHONE:

## ANALYSIS

1,4-Dioxane SW846 B270  
SIM

1

2

3

4

5

6

7

8

9

## PRESERVATIVES

1

2

3

4

5

6

7

8

9

B

## COMMENTS

<-- Specify Preservatives  
A-HCl B-HNO3  
C-H2SO4 D-NaOH  
E-ICE F-OtherFAX: 10 DAYS\*  
HARD COPY: 10 DAYS\*  
EDD 10 DAYS\*  
\* TO BE APPROVED BY CHEMTECH  
STANDARD TURNAROUND TIME IS 10 BUSINESS DAYS☐ RESEULTS ONLY ☐ USEPA CLP  
☐ RESULTS + QC ☐ New York State ASP "B"  
☐ New Jersey REDUCED ☐ New York State ASP "A"  
☐ New Jersey CLP ☐ Other \_\_\_\_\_  
☐ EDD Format \_\_\_\_\_

| CHEMTECH<br>SAMPLE<br>ID | PROJECT<br>SAMPLE IDENTIFICATION | SAMPLE<br>MATRIX | SAMPLE<br>TYPE |      | SAMPLE<br>COLLECTION |       | # of Bottles |   |   |   |   |   |   |   |   |   |  |
|--------------------------|----------------------------------|------------------|----------------|------|----------------------|-------|--------------|---|---|---|---|---|---|---|---|---|--|
|                          |                                  |                  | COMP           | GRAB | DATE                 | TIME  |              | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |  |
| 1.                       | RW5-SP100-20241121               | GW               |                | x    | 11/21/24             | 12:45 | 1            | x |   |   |   |   |   |   |   |   |  |
| 2.                       | RW5-SP201-20241121               | GW               |                | x    | 11/21/24             | 12:47 | 1            | x |   |   |   |   |   |   |   |   |  |
| 3.                       | RW5-SP303-20241121               | GW               |                | x    | 11/21/24             | 12:53 | 1            | x |   |   |   |   |   |   |   |   |  |
| 4.                       |                                  |                  |                |      |                      |       |              |   |   |   |   |   |   |   |   |   |  |
| 5.                       |                                  |                  |                |      |                      |       |              |   |   |   |   |   |   |   |   |   |  |
| 6.                       |                                  |                  |                |      |                      |       |              |   |   |   |   |   |   |   |   |   |  |
| 7.                       |                                  |                  |                |      |                      |       |              |   |   |   |   |   |   |   |   |   |  |
| 8.                       |                                  |                  |                |      |                      |       |              |   |   |   |   |   |   |   |   |   |  |
| 9.                       |                                  |                  |                |      |                      |       |              |   |   |   |   |   |   |   |   |   |  |
| 10.                      |                                  |                  |                |      |                      |       |              |   |   |   |   |   |   |   |   |   |  |

## SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE PROSESSION INCLUDING COURIER DELIVERY

|                         |           |                     |                                                                                                                                                                          |
|-------------------------|-----------|---------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| RELINQUISHED BY SAMPLER | DATE/TIME | RECEIVED BY         | Conditions of bottles or coolers at receipt: <input type="checkbox"/> Compliant <input type="checkbox"/> Non Compliant <input type="checkbox"/> Cooler Temp <u>1.5°C</u> |
| 1.                      | 11/14/16  | 1.                  | MeOH extraction requires an additional 4oz. Jar for percent solid                                                                                                        |
| RELINQUISHED BY         | DATE/TIME | RECEIVED BY         | Comments:                                                                                                                                                                |
| 2.                      | 11-22-24  | 2.                  | <input type="checkbox"/> Ice in Cooler? <u>4</u>                                                                                                                         |
| RELINQUISHED BY         | DATE/TIME | RECEIVED FOR LAB BY |                                                                                                                                                                          |
| 3.                      |           | 3.                  |                                                                                                                                                                          |

Page \_\_\_\_\_ of \_\_\_\_\_

SHIPPED VIA: CLIENT: ☐ Hand Delivered ☐ Overnight  
CHEMTECH: ☐ Picked Up ☐ Overnight

Shipment Complete  
☐ YES ☐ NO

WHITE - CHEMTECH COPY FOR RETURN TO CLIENT

YELLOW - CHEMTECH COPY

PINK - SAMPLER COPY



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       |

Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN112524\  
 Data File : BN035277.D  
 Acq On : 25 Nov 2024 10:16  
 Operator : RC/JU  
 Sample : SSTDICC0.1  
 Misc :  
 ALS Vial : 52 Sample Multiplier: 1

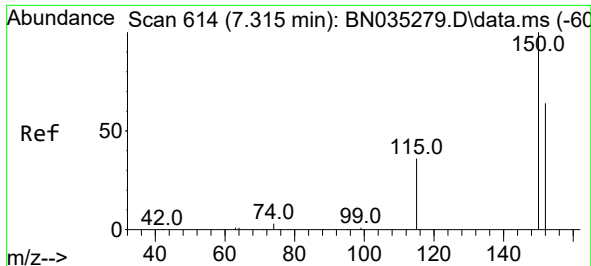
Instrument :  
 BNA\_N  
 ClientSampleId :  
 SSTDICC0.1

Quant Time: Nov 25 18:31:56 2024  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\8270-SIM-BN112524.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Mon Nov 25 14:32:52 2024  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc      | Units | Dev(Min) |
|-------------------------------|--------|------|----------|-----------|-------|----------|
| -----                         |        |      |          |           |       |          |
| Internal Standards            |        |      |          |           |       |          |
| 1) 1,4-Dichlorobenzene-d4     | 7.315  | 152  | 2616     | 0.400     | ng    | 0.00     |
| 7) Naphthalene-d8             | 10.063 | 136  | 6701     | 0.400     | ng    | 0.00     |
| 13) Acenaphthene-d10          | 13.976 | 164  | 3999     | 0.400     | ng    | 0.00     |
| 19) Phenanthrene-d10          | 16.734 | 188  | 9103     | 0.400     | ng    | 0.00     |
| 29) Chrysene-d12              | 21.008 | 240  | 834      | 0.400     | ng    | 0.00     |
| 35) Perylene-d12              | 23.081 | 264  | 5298     | 0.400     | ng    | 0.00     |
| System Monitoring Compounds   |        |      |          |           |       |          |
| 4) 2-Fluorophenol             | 4.968  | 112  | 561      | 0.114     | ng    | 0.00     |
| 5) Phenol-d6                  | 6.520  | 99   | 781      | 0.113     | ng    | 0.00     |
| 8) Nitrobenzene-d5            | 8.450  | 82   | 713      | 0.131     | ng    | 0.00     |
| 11) 2-Methylnaphthalene-d10   | 11.670 | 152  | 939      | 0.100     | ng    | 0.00     |
| 14) 2,4,6-Tribromophenol      | 15.484 | 330  | 174      | 0.085     | ng    | 0.00     |
| 15) 2-Fluorobiphenyl          | 12.608 | 172  | 595      | 0.269     | ng    | 0.00     |
| 27) Fluoranthene-d10          | 18.792 | 212  | 2168     | 0.089     | ng    | 0.00     |
| 31) Terphenyl-d14             | 19.419 | 244  | 1310     | 0.085     | ng    | 0.00     |
| Target Compounds              |        |      |          |           |       |          |
|                               |        |      |          |           |       | Qvalue   |
| 2) 1,4-Dioxane                | 3.010  | 88   | 245      | 0.130     | ng    | # 78     |
| 3) n-Nitrosodimethylamine     | 3.307  | 42   | 166      | 0.085     | ng    | # 74     |
| 6) bis(2-Chloroethyl)ether    | 6.766  | 93   | 595      | 0.102     | ng    | 97       |
| 9) Naphthalene                | 10.116 | 128  | 1817     | 0.098     | ng    | # 92     |
| 10) Hexachlorobutadiene       | 10.415 | 225  | 471      | 0.090     | ng    | # 98     |
| 12) 2-Methylnaphthalene       | 11.746 | 142  | 1156     | 0.095     | ng    | 98       |
| 16) Acenaphthylene            | 13.688 | 152  | 1859     | 0.092     | ng    | 99       |
| 17) Acenaphthene              | 14.030 | 154  | 1144     | 0.090     | ng    | 92       |
| 18) Fluorene                  | 15.035 | 166  | 1538     | 0.087     | ng    | 99       |
| 20) 4,6-Dinitro-2-methylph... | 15.141 | 198  | 47       | 0.226     | ng    | # 21     |
| 21) 4-Bromophenyl-phenylether | 15.952 | 248  | 565      | 0.098     | ng    | # 70     |
| 22) Hexachlorobenzene         | 16.051 | 284  | 743      | 0.090     | ng    | 98       |
| 23) Atrazine                  | 16.237 | 200  | 206      | 0.085     | ng    | # 82     |
| 24) Pentachlorophenol         | 16.399 | 266  | 157      | 0.079     | ng    | # 85     |
| 25) Phenanthrene              | 16.783 | 178  | 2552     | 0.091     | ng    | 99       |
| 26) Anthracene                | 16.870 | 178  | 2057     | 0.086     | ng    | 99       |
| 28) Fluoranthene              | 18.825 | 202  | 2840     | 0.080     | ng    | 99       |
| 30) Pyrene                    | 19.192 | 202  | 2830     | 0.093     | ng    | 100      |
| 32) Benzo(a)anthracene        | 21.017 | 228  | 2709     | 0.093     | ng    | 98       |
| 33) Chrysene                  | 21.017 | 228  | 2709     | 0.093     | ng    | 98       |
| 34) Bis(2-ethylhexyl)phtha... | 21.017 | 149  | 540      | Below Cal |       | # 66     |
| 36) Indeno(1,2,3-cd)pyrene    | 25.121 | 276  | 1824     | 0.084     | ng    | 98       |
| 37) Benzo(b)fluoranthene      | 22.464 | 252  | 1993     | 0.087     | ng    | # 78     |
| 38) Benzo(k)fluoranthene      | 22.505 | 252  | 2076     | 0.085     | ng    | # 78     |
| 39) Benzo(a)pyrene            | 22.987 | 252  | 1578     | 0.090     | ng    | # 73     |
| 40) Dibenzo(a,h)anthracene    | 25.142 | 278  | 1273     | 0.078     | ng    | # 76     |
| 41) Benzo(g,h,i)perylene      | 25.738 | 276  | 1716     | 0.091     | ng    | # 88     |
| -----                         |        |      |          |           |       |          |

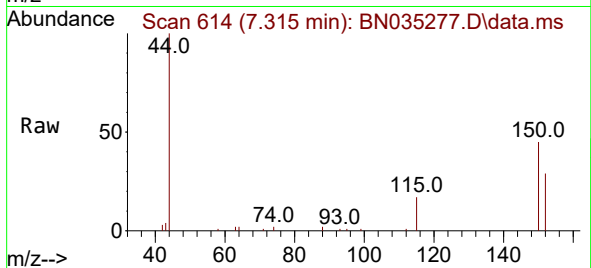
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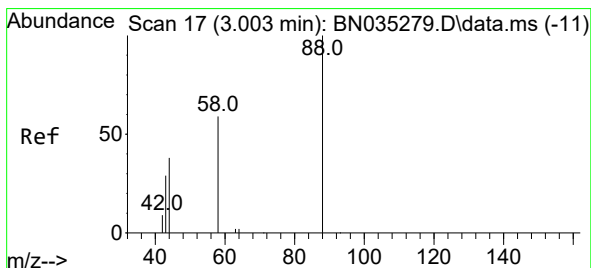
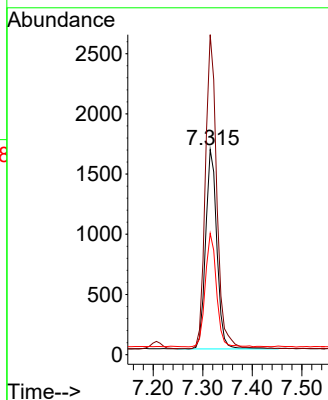
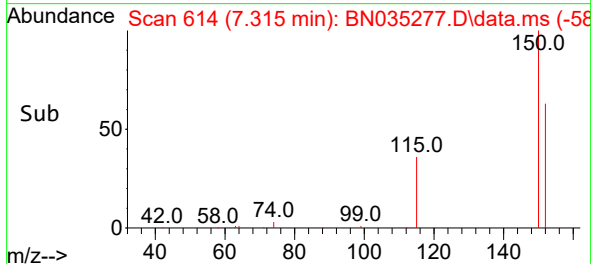


#1  
1,4-Dichlorobenzene-d4  
Concen: 0.400 ng  
RT: 7.315 min Scan# 61  
Delta R.T. -0.000 min  
Lab File: BN035277.D  
Acq: 25 Nov 2024 10:16

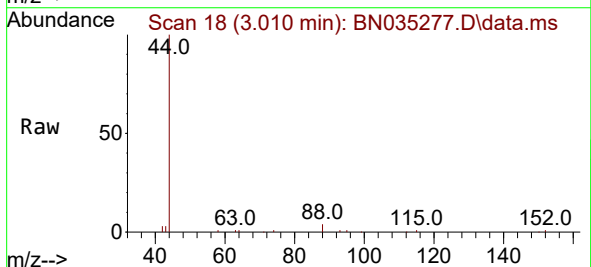
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC0.1



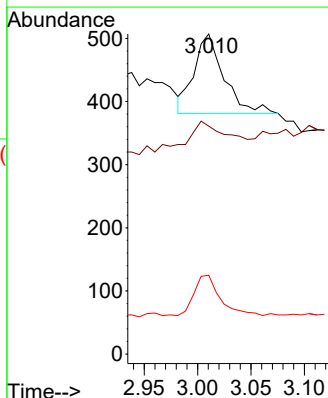
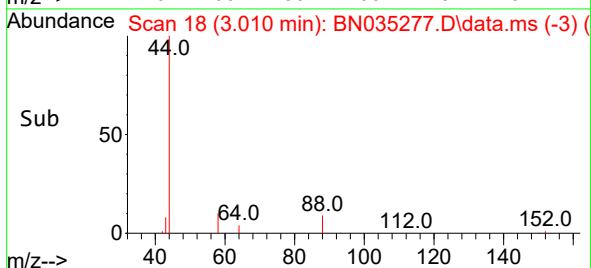
Tgt Ion:152 Resp: 2616  
Ion Ratio Lower Upper  
152 100  
150 156.0 124.5 186.7  
115 59.1 47.8 71.8

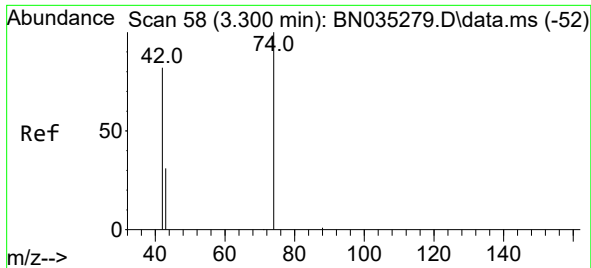


#2  
1,4-Dioxane  
Concen: 0.130 ng  
RT: 3.010 min Scan# 18  
Delta R.T. 0.007 min  
Lab File: BN035277.D  
Acq: 25 Nov 2024 10:16



Tgt Ion: 88 Resp: 245  
Ion Ratio Lower Upper  
88 100  
43 78.8 48.1 72.1#  
58 44.9 46.9 70.3#

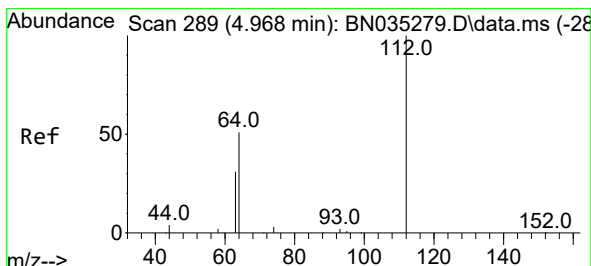
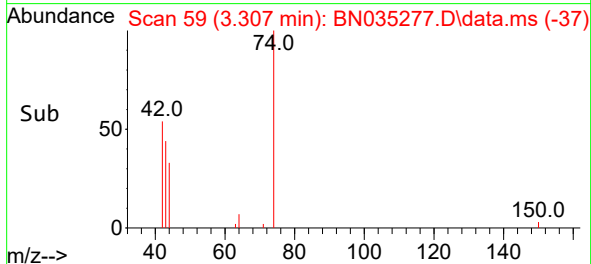
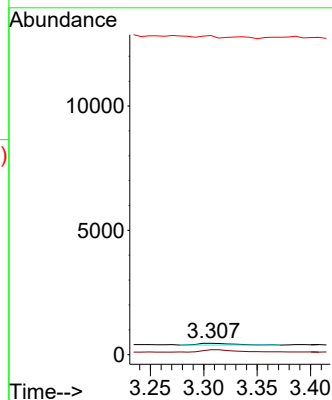
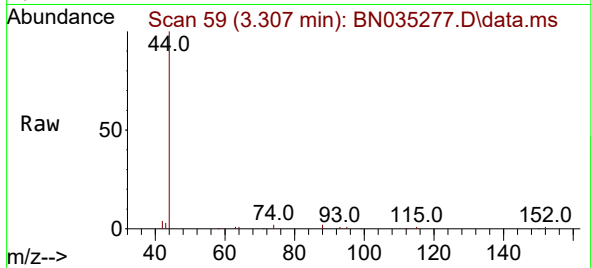




#3  
n-Nitrosodimethylamine  
Concen: 0.085 ng  
RT: 3.307 min Scan# 58  
Delta R.T. 0.007 min  
Lab File: BN035277.D  
Acq: 25 Nov 2024 10:16

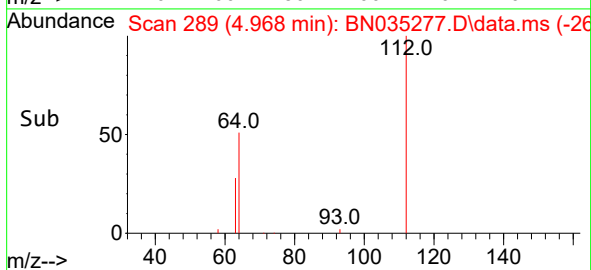
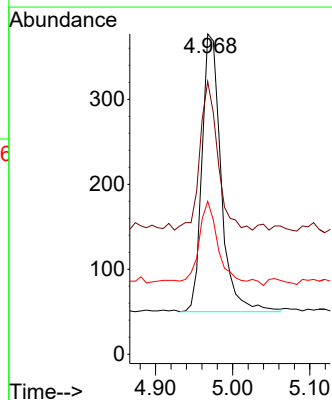
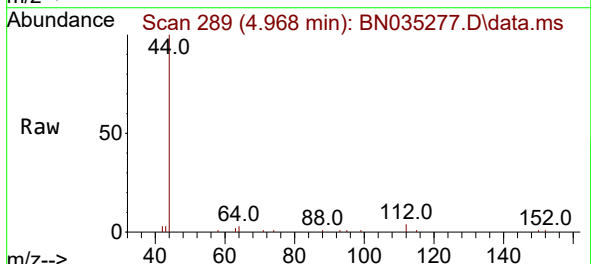
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC0.1

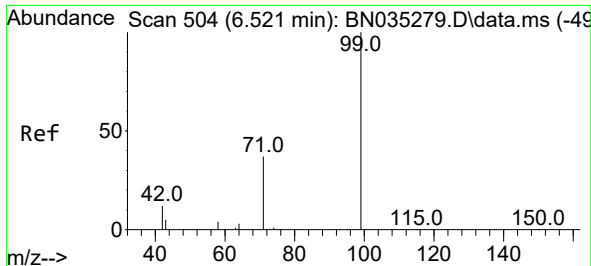
Tgt Ion: 42 Resp: 166  
Ion Ratio Lower Upper  
42 100  
74 142.8 102.7 154.1  
44 0.0 34.1 51.1#



#4  
2-Fluorophenol  
Concen: 0.114 ng  
RT: 4.968 min Scan# 289  
Delta R.T. -0.000 min  
Lab File: BN035277.D  
Acq: 25 Nov 2024 10:16

Tgt Ion: 112 Resp: 561  
Ion Ratio Lower Upper  
112 100  
64 49.9 40.4 60.6  
63 32.1 23.8 35.8

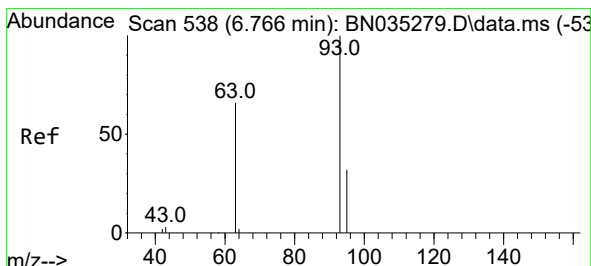
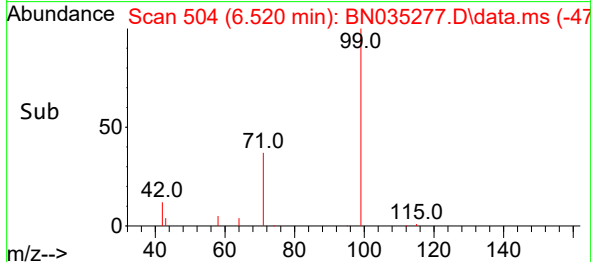
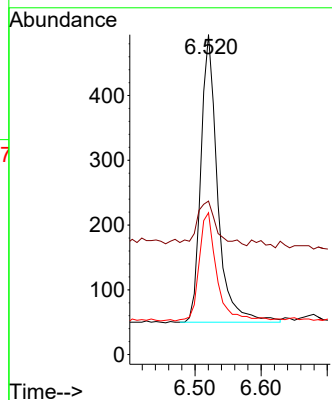
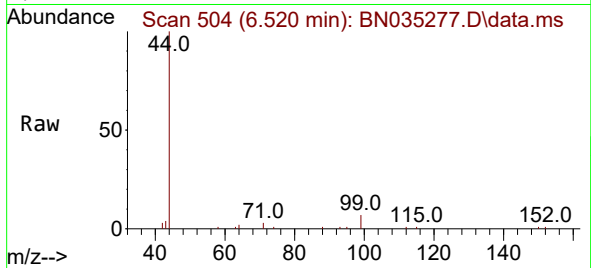




#5  
Phenol-d6  
Concen: 0.113 ng  
RT: 6.520 min Scan# 504  
Delta R.T. -0.000 min  
Lab File: BN035277.D  
Acq: 25 Nov 2024 10:16

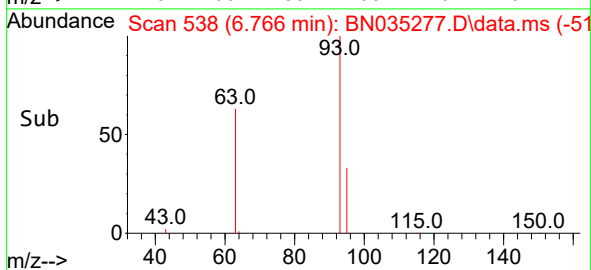
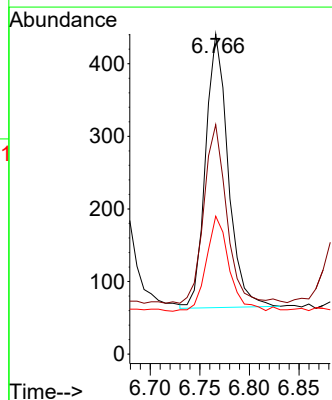
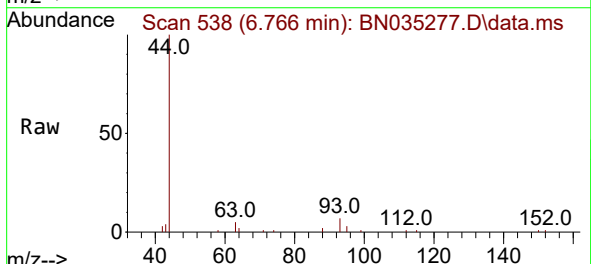
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC0.1

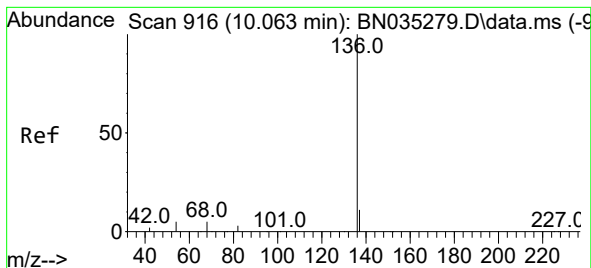
Tgt Ion: 99 Resp: 781  
Ion Ratio Lower Upper  
99 100  
42 18.4 12.8 19.2  
71 39.8 31.4 47.2



#6  
bis(2-Chloroethyl)ether  
Concen: 0.102 ng  
RT: 6.766 min Scan# 538  
Delta R.T. -0.000 min  
Lab File: BN035277.D  
Acq: 25 Nov 2024 10:16

Tgt Ion: 93 Resp: 595  
Ion Ratio Lower Upper  
93 100  
63 66.6 52.3 78.5  
95 35.0 25.5 38.3





#7

Naphthalene-d8

Concen: 0.400 ng

RT: 10.063 min Scan# 916

Delta R.T. -0.000 min

Lab File: BN035277.D

Acq: 25 Nov 2024 10:16

Instrument :

BNA\_N

ClientSampleId :

SSTDICC0.1

Tgt Ion:136 Resp: 6701

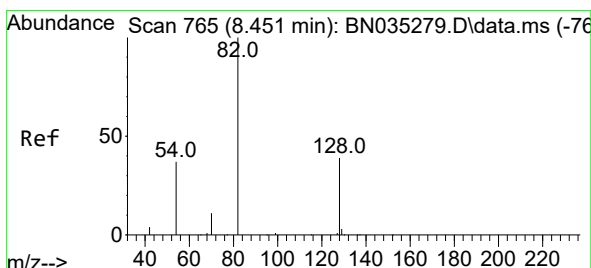
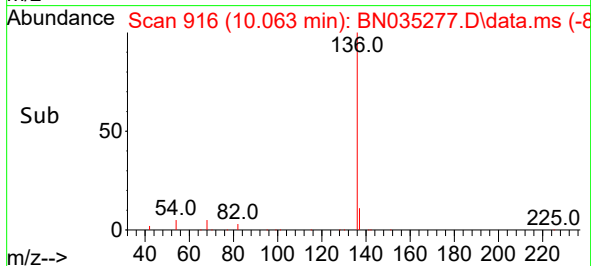
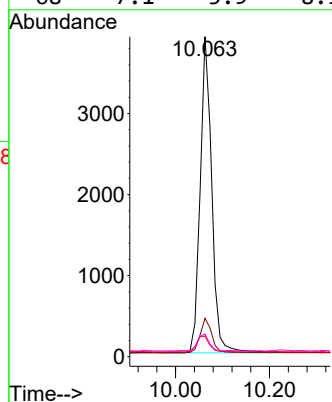
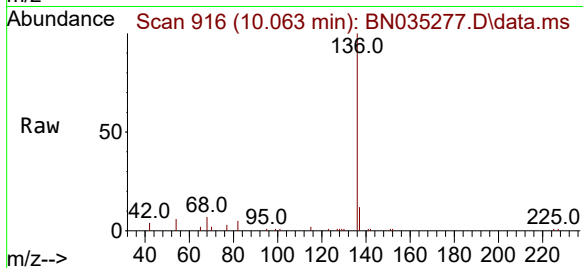
Ion Ratio Lower Upper

136 100

137 12.0 9.7 14.5

54 6.4 5.3 7.9

68 7.1 5.9 8.9



#8

Nitrobenzene-d5

Concen: 0.131 ng

RT: 8.450 min Scan# 765

Delta R.T. -0.000 min

Lab File: BN035277.D

Acq: 25 Nov 2024 10:16

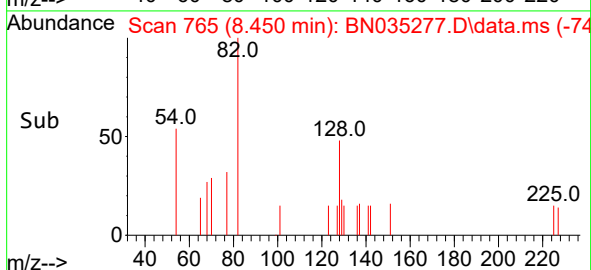
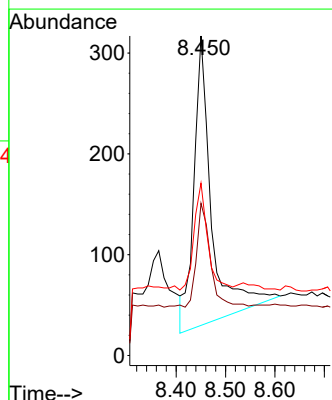
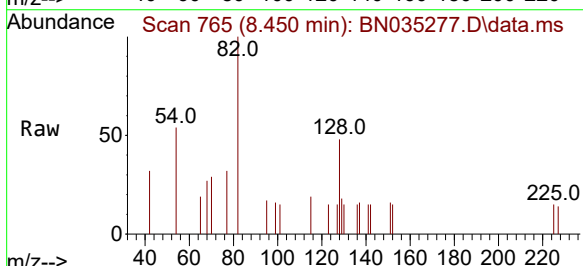
Tgt Ion: 82 Resp: 713

Ion Ratio Lower Upper

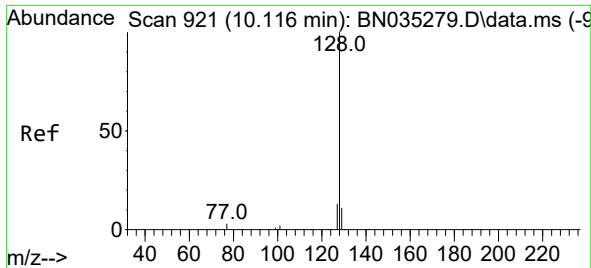
82 100

128 47.6 33.0 49.4

54 53.9 33.3 49.9#



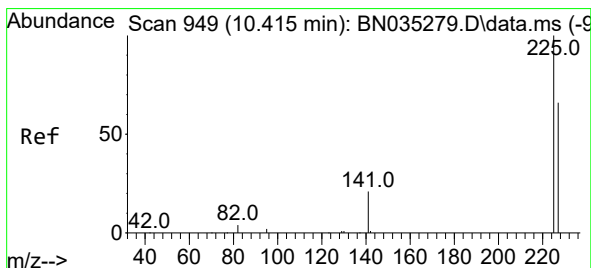
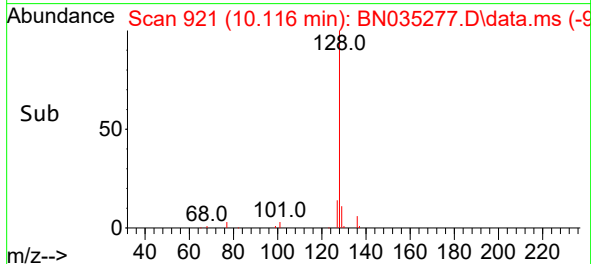
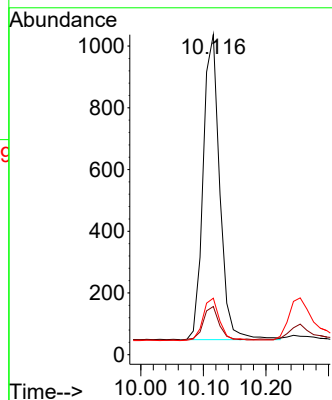
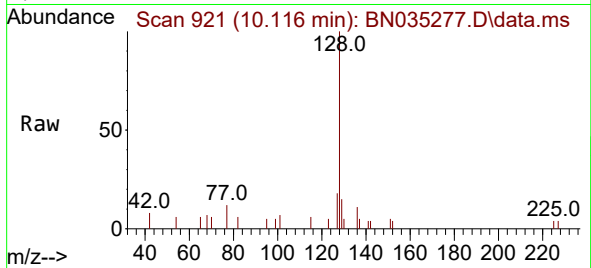




#9  
Naphthalene  
Concen: 0.098 ng  
RT: 10.116 min Scan# 911  
Delta R.T. -0.000 min  
Lab File: BN035277.D  
Acq: 25 Nov 2024 10:16

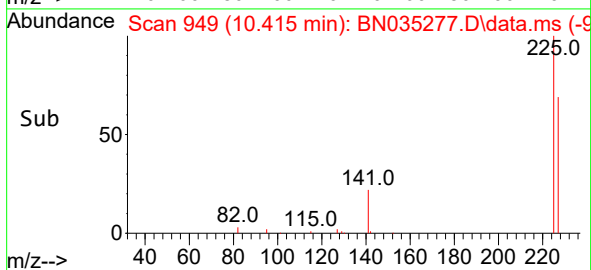
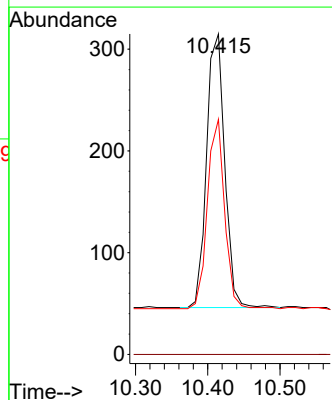
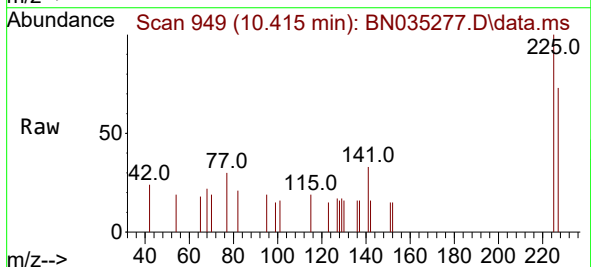
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC0.1

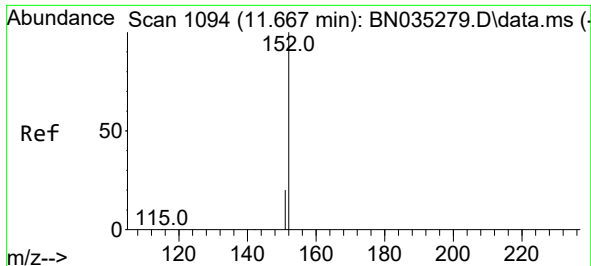
Tgt Ion:128 Resp: 1817  
Ion Ratio Lower Upper  
128 100  
129 15.0 9.6 14.4#  
127 17.6 11.3 16.9#



#10  
Hexachlorobutadiene  
Concen: 0.090 ng  
RT: 10.415 min Scan# 949  
Delta R.T. -0.000 min  
Lab File: BN035277.D  
Acq: 25 Nov 2024 10:16

Tgt Ion:225 Resp: 471  
Ion Ratio Lower Upper  
225 100  
223 0.0 0.0 0.0  
227 65.6 51.3 76.9

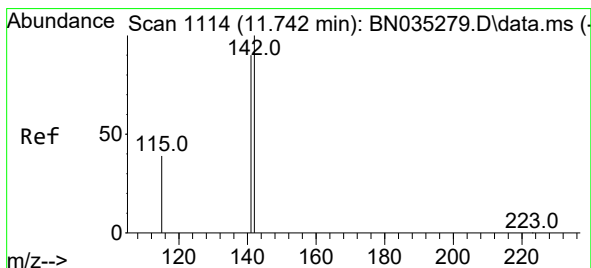
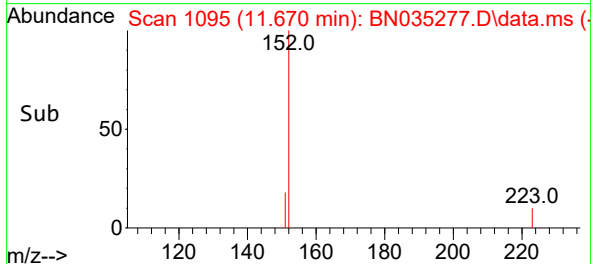
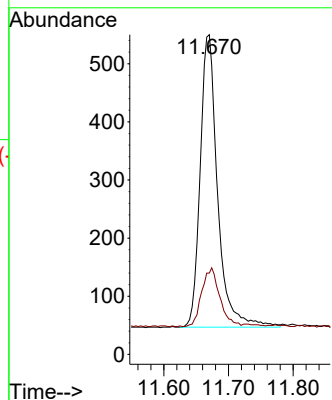
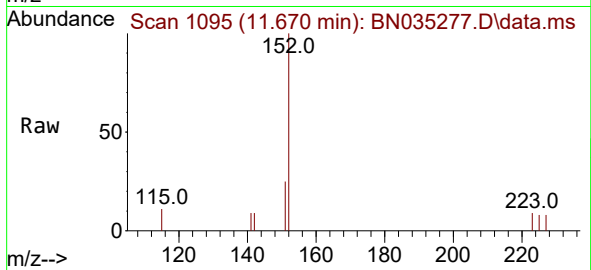




#11  
2-Methylnaphthalene-d10  
Concen: 0.100 ng  
RT: 11.670 min Scan# 1109  
Delta R.T. 0.004 min  
Lab File: BN035277.D  
Acq: 25 Nov 2024 10:16

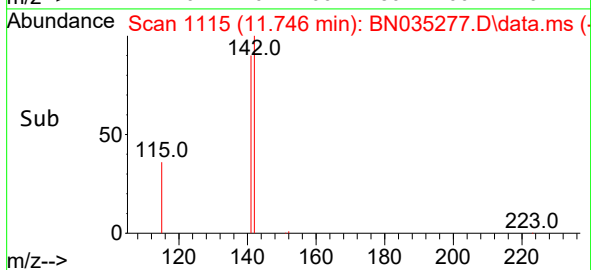
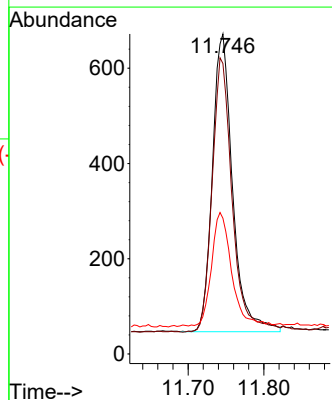
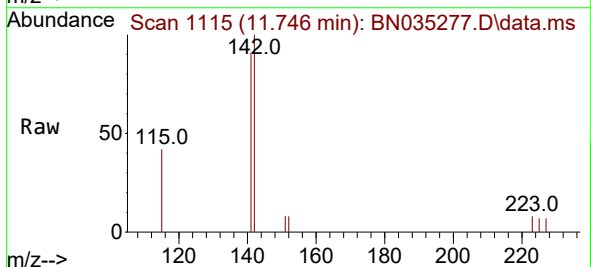
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC0.1

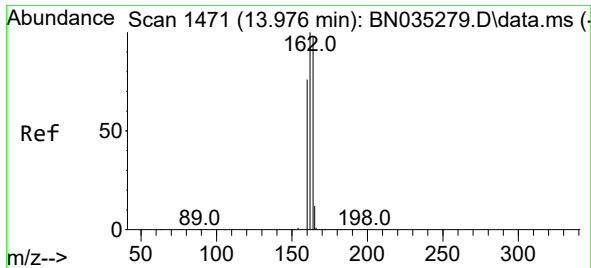
Tgt Ion:152 Resp: 939  
Ion Ratio Lower Upper  
152 100  
151 20.7 17.2 25.8



#12  
2-Methylnaphthalene  
Concen: 0.095 ng  
RT: 11.746 min Scan# 1115  
Delta R.T. 0.004 min  
Lab File: BN035277.D  
Acq: 25 Nov 2024 10:16

Tgt Ion:142 Resp: 1156  
Ion Ratio Lower Upper  
142 100  
141 90.8 71.8 107.8  
115 42.4 32.6 49.0

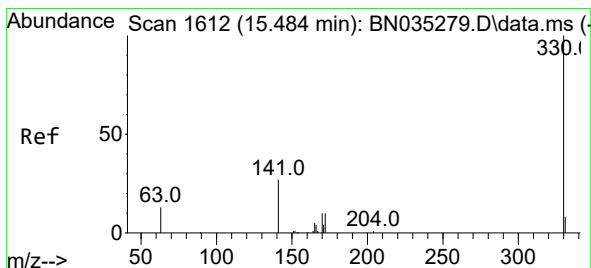
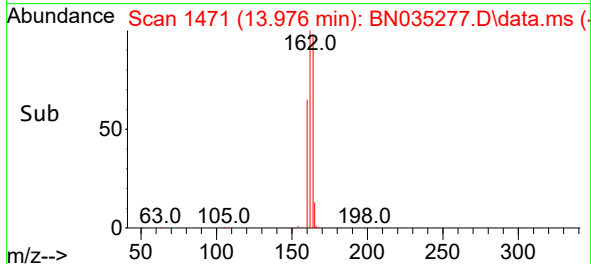
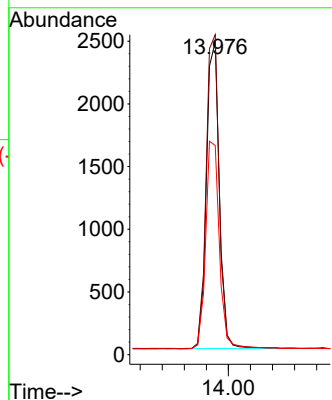
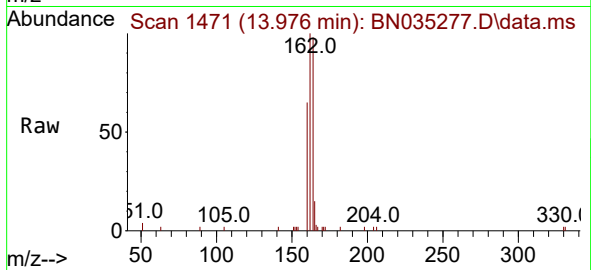




#13  
Acenaphthene-d10  
Concen: 0.400 ng  
RT: 13.976 min Scan# 1471  
Delta R.T. -0.000 min  
Lab File: BN035277.D  
Acq: 25 Nov 2024 10:16

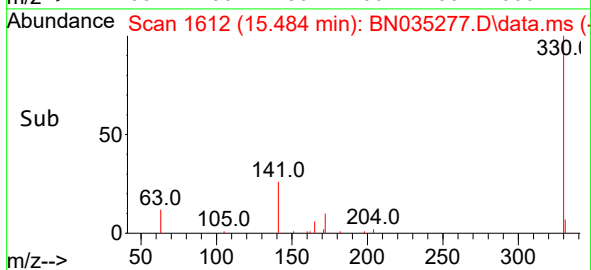
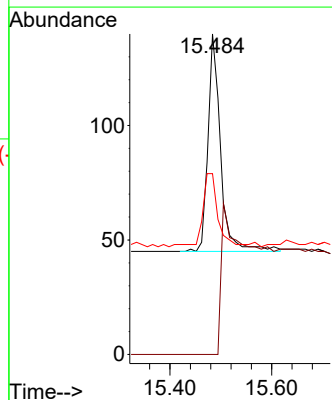
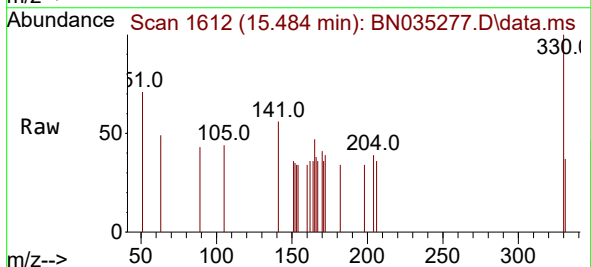
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC0.1

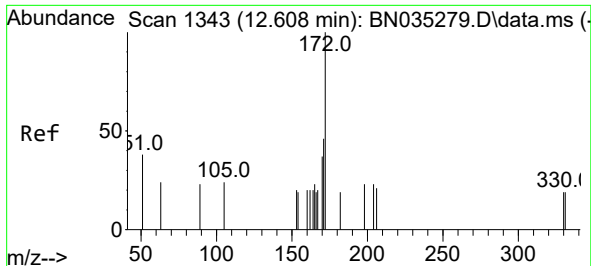
Tgt Ion:164 Resp: 3999  
Ion Ratio Lower Upper  
164 100  
162 102.2 82.0 123.0  
160 66.8 63.0 94.4



#14  
2,4,6-Tribromophenol  
Concen: 0.085 ng  
RT: 15.484 min Scan# 1612  
Delta R.T. -0.000 min  
Lab File: BN035277.D  
Acq: 25 Nov 2024 10:16

Tgt Ion:330 Resp: 174  
Ion Ratio Lower Upper  
330 100  
332 0.0 0.0 0.0  
141 34.5 32.4 48.6

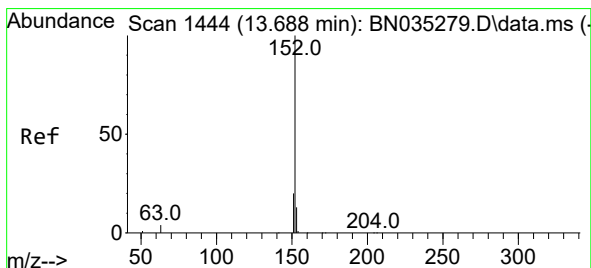
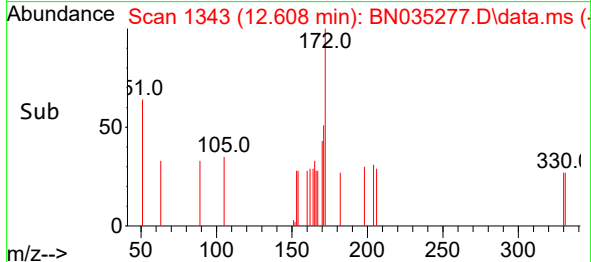
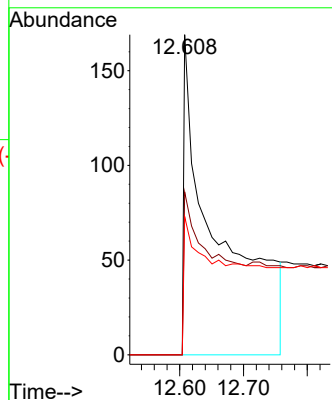
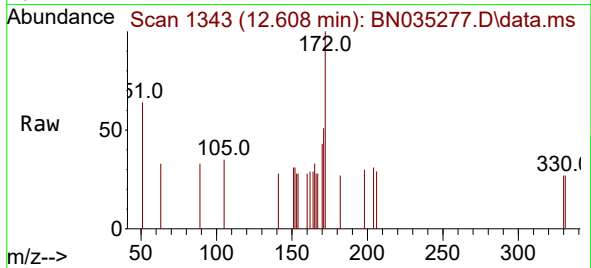




#15  
2-Fluorobiphenyl  
Concen: 0.269 ng  
RT: 12.608 min Scan# 11  
Delta R.T. -0.000 min  
Lab File: BN035277.D  
Acq: 25 Nov 2024 10:16

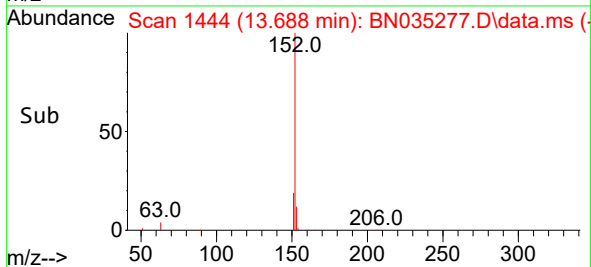
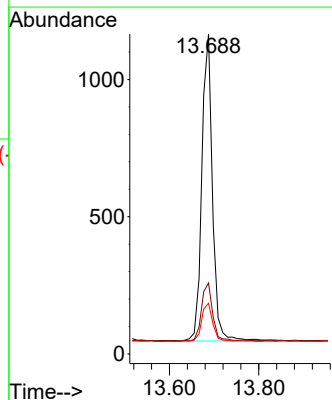
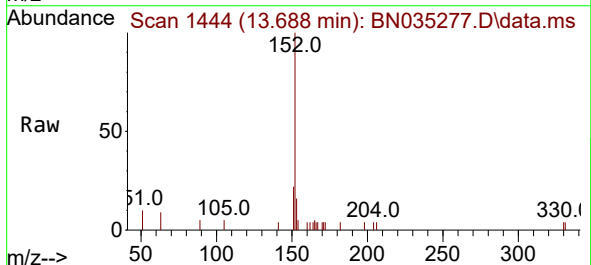
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC0.1

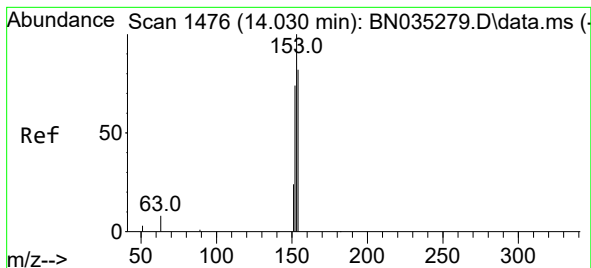
Tgt Ion:172 Resp: 595  
Ion Ratio Lower Upper  
172 100  
171 50.9 36.6 55.0  
170 43.2 29.7 44.5



#16  
Acenaphthylene  
Concen: 0.092 ng  
RT: 13.688 min Scan# 1444  
Delta R.T. -0.000 min  
Lab File: BN035277.D  
Acq: 25 Nov 2024 10:16

Tgt Ion:152 Resp: 1859  
Ion Ratio Lower Upper  
152 100  
151 19.4 15.9 23.9  
153 13.4 10.2 15.4





#17

Acenaphthene

Concen: 0.090 ng

RT: 14.030 min Scan# 1476

Delta R.T. -0.000 min

Lab File: BN035277.D

Acq: 25 Nov 2024 10:16

Instrument :

BNA\_N

ClientSampleId :

SSTDICC0.1

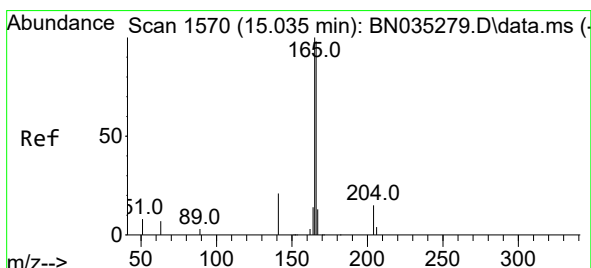
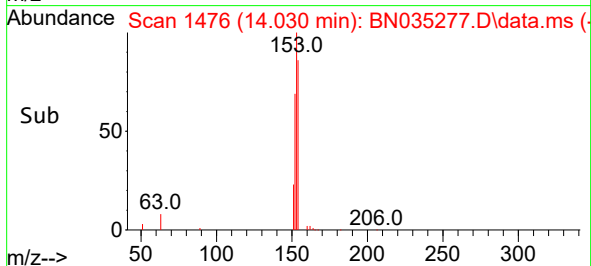
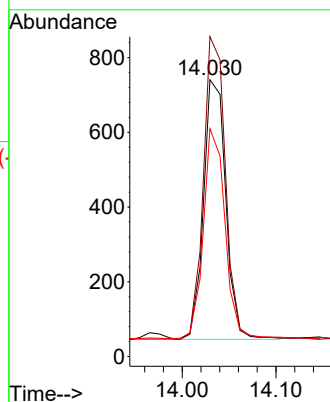
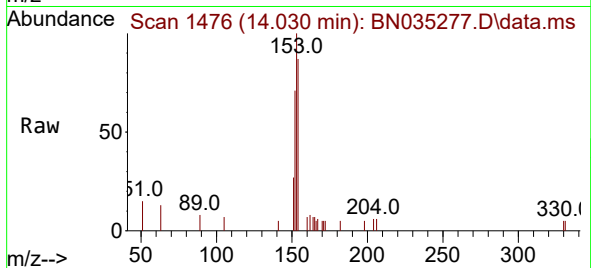
Tgt Ion:154 Resp: 1144

Ion Ratio Lower Upper

154 100

153 115.4 96.1 144.1

152 78.8 72.2 108.2



#18

Fluorene

Concen: 0.087 ng

RT: 15.035 min Scan# 1570

Delta R.T. -0.000 min

Lab File: BN035277.D

Acq: 25 Nov 2024 10:16

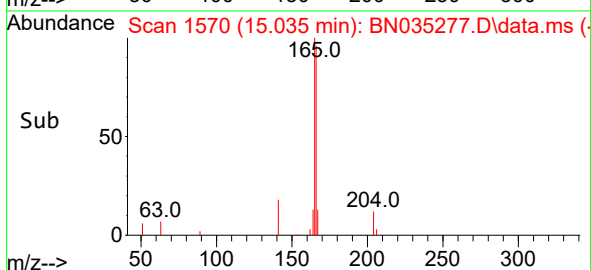
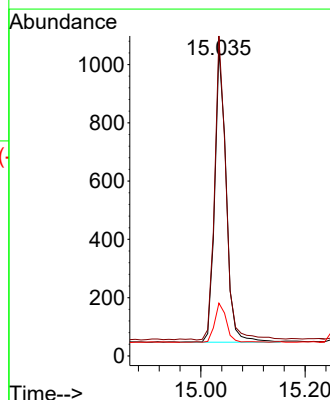
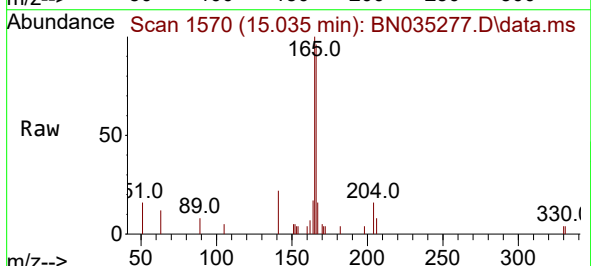
Tgt Ion:166 Resp: 1538

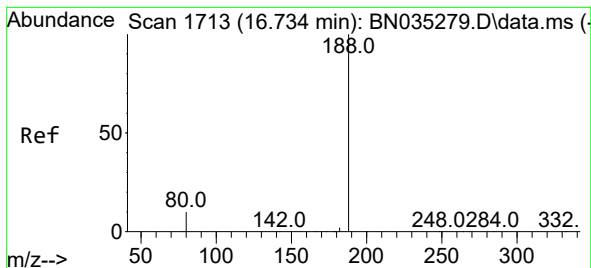
Ion Ratio Lower Upper

166 100

165 101.9 81.2 121.8

167 13.8 10.5 15.7





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 16.734 min Scan# 11

Delta R.T. -0.000 min

Lab File: BN035277.D

Acq: 25 Nov 2024 10:16

Instrument :

BNA\_N

ClientSampleId :

SSTDICC0.1

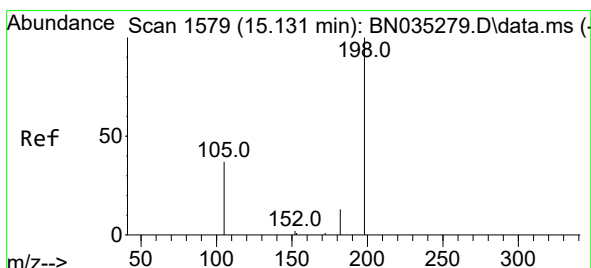
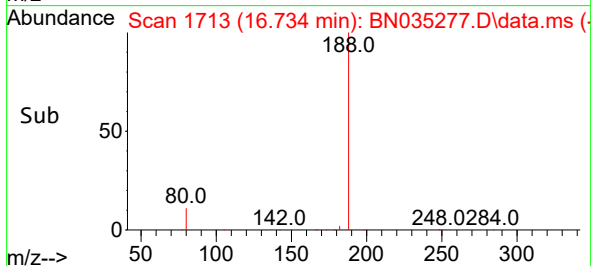
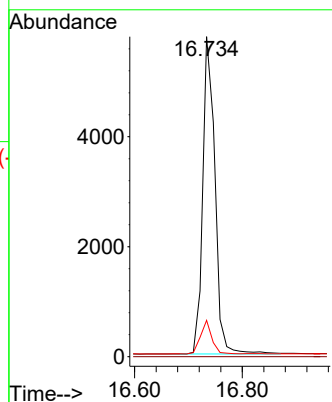
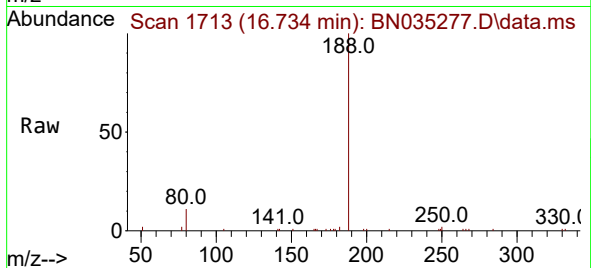
Tgt Ion:188 Resp: 9103

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 11.4 8.9 13.3



#20

4,6-Dinitro-2-methylphenol

Concen: 0.226 ng

RT: 15.141 min Scan# 1580

Delta R.T. 0.010 min

Lab File: BN035277.D

Acq: 25 Nov 2024 10:16

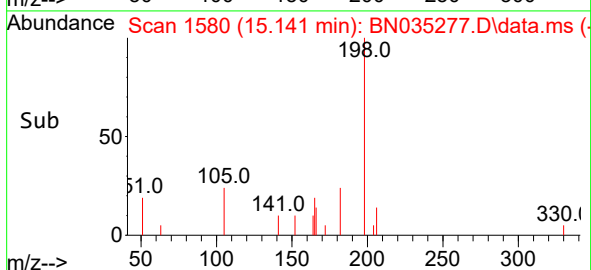
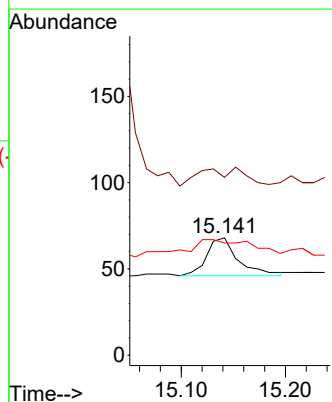
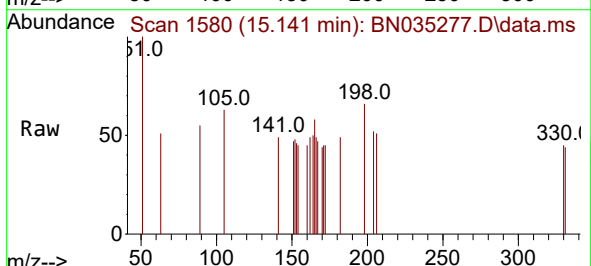
Tgt Ion:198 Resp: 47

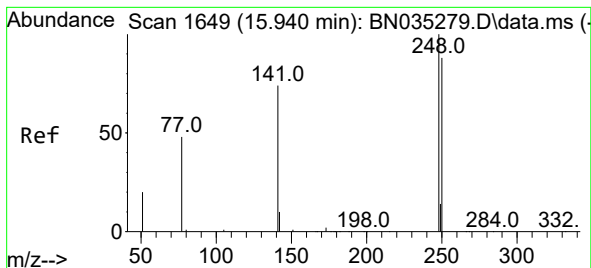
Ion Ratio Lower Upper

198 100

51 151.5 53.6 80.4#

105 95.6 47.4 71.2#

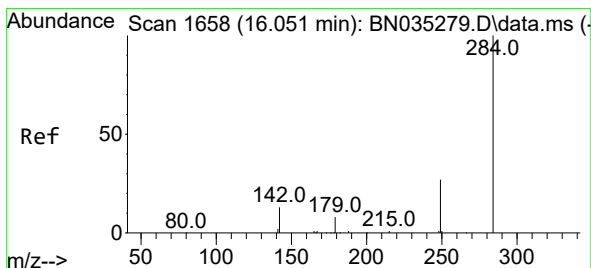
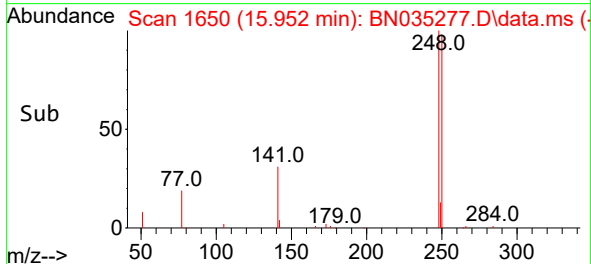
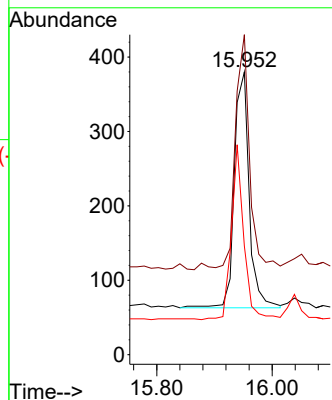
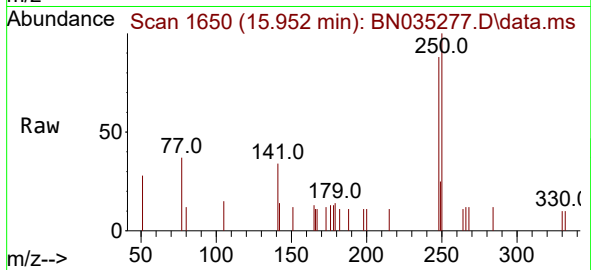




#21  
4-Bromophenyl-phenylether  
Concen: 0.098 ng  
RT: 15.952 min Scan# 1650  
Delta R.T. 0.012 min  
Lab File: BN035277.D  
Acq: 25 Nov 2024 10:16

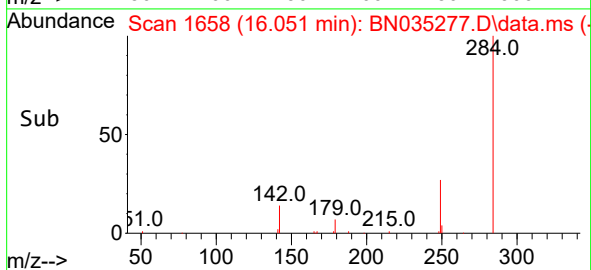
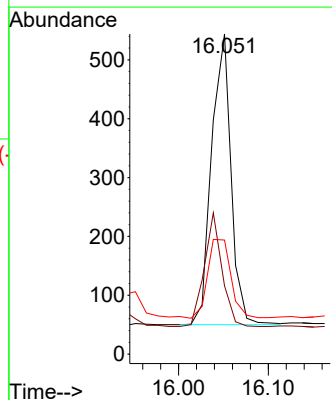
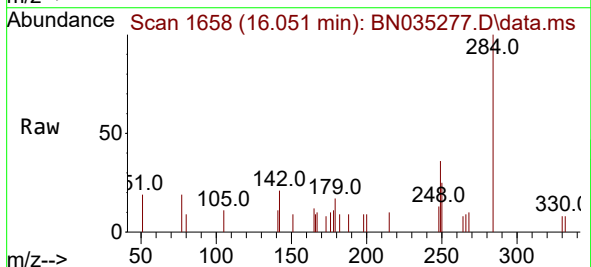
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC0.1

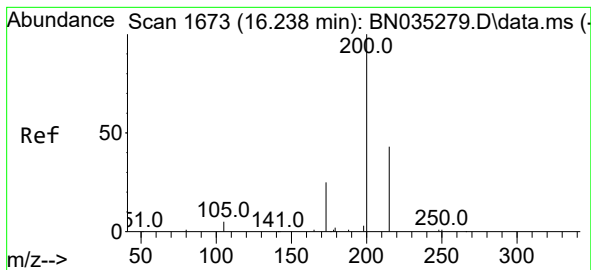
Tgt Ion:248 Resp: 565  
Ion Ratio Lower Upper  
248 100  
250 113.2 74.8 112.2#  
141 38.4 59.0 88.4#



#22  
Hexachlorobenzene  
Concen: 0.090 ng  
RT: 16.051 min Scan# 1658  
Delta R.T. -0.000 min  
Lab File: BN035277.D  
Acq: 25 Nov 2024 10:16

Tgt Ion:284 Resp: 743  
Ion Ratio Lower Upper  
284 100  
142 35.4 28.7 43.1  
249 33.1 25.4 38.0





#23

Atrazine

Concen: 0.085 ng

RT: 16.237 min Scan# 1

Delta R.T. -0.000 min

Lab File: BN035277.D

Acq: 25 Nov 2024 10:16

Instrument :

BNA\_N

ClientSampleId :

SSTDICC0.1

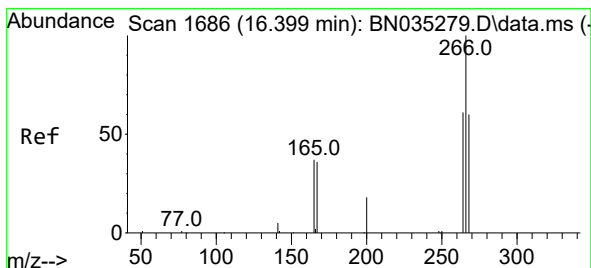
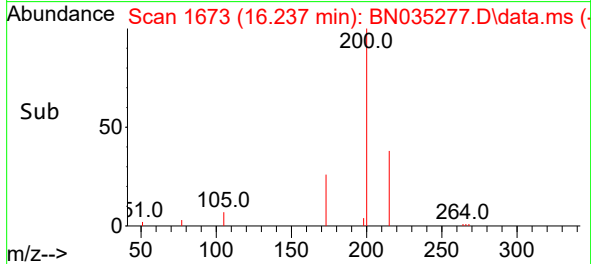
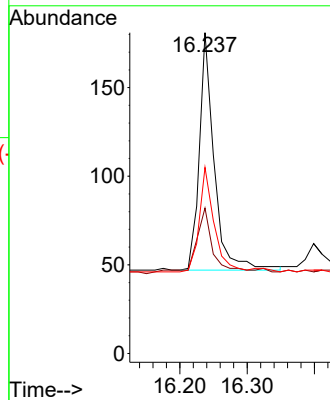
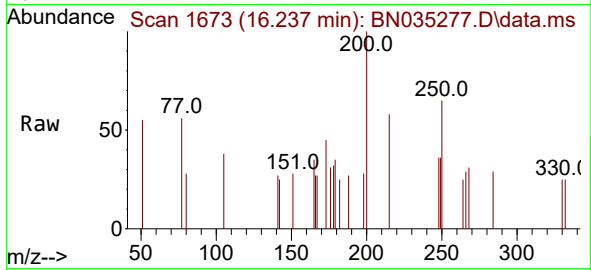
Tgt Ion:200 Resp: 206

Ion Ratio Lower Upper

200 100

173 45.3 25.8 38.8#

215 58.0 38.6 58.0#



#24

Pentachlorophenol

Concen: 0.079 ng

RT: 16.399 min Scan# 1686

Delta R.T. -0.000 min

Lab File: BN035277.D

Acq: 25 Nov 2024 10:16

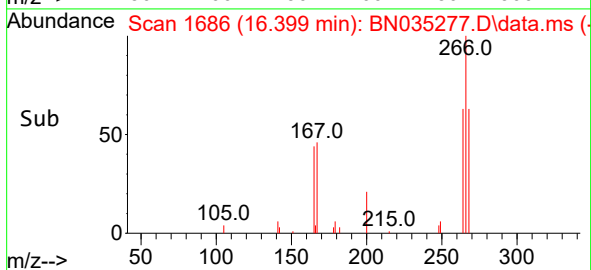
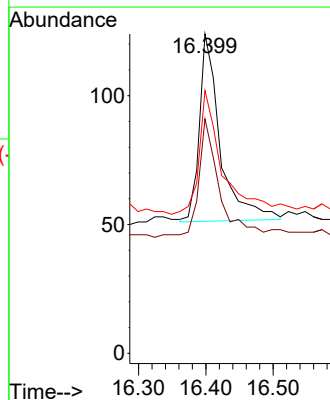
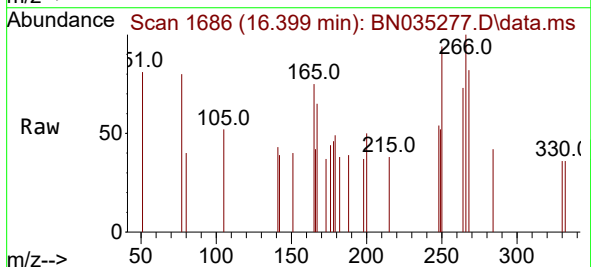
Tgt Ion:266 Resp: 157

Ion Ratio Lower Upper

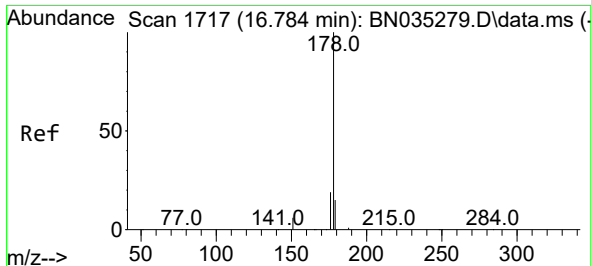
266 100

264 68.2 49.3 73.9

268 77.1 48.6 73.0#



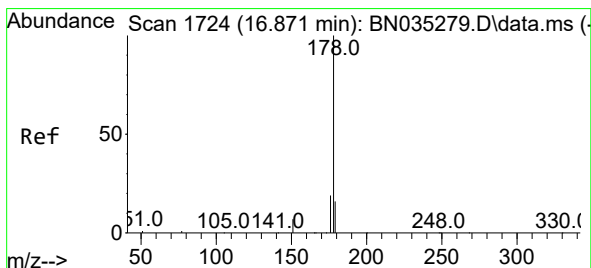
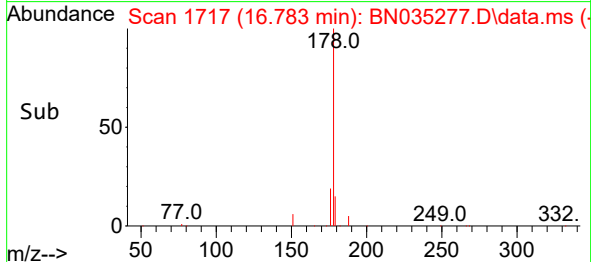
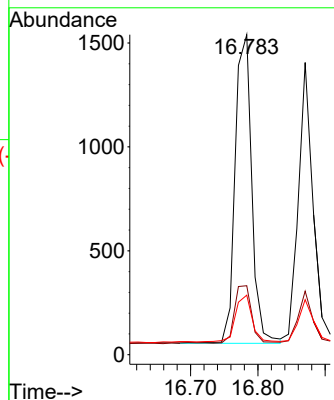
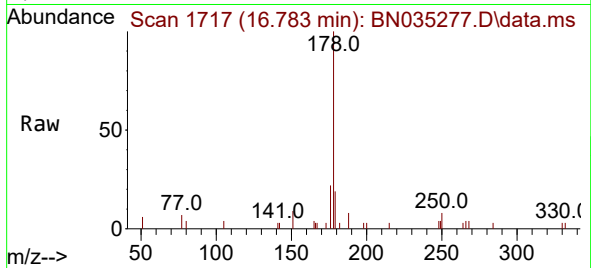




#25  
Phenanthrene  
Concen: 0.091 ng  
RT: 16.783 min Scan# 1717  
Delta R.T. -0.000 min  
Lab File: BN035277.D  
Acq: 25 Nov 2024 10:16

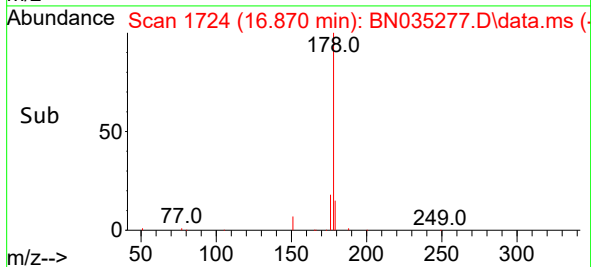
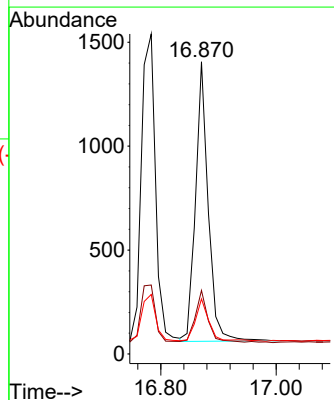
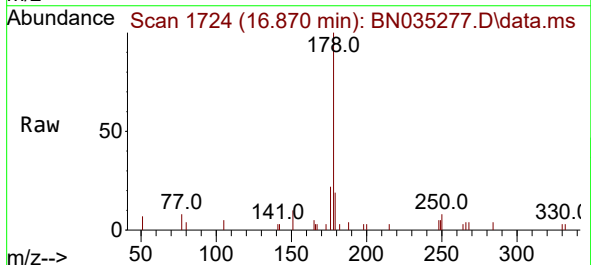
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC0.1

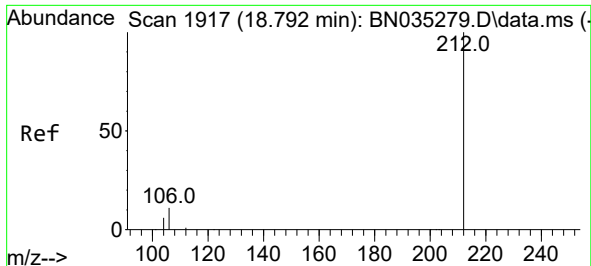
Tgt Ion:178 Resp: 2552  
Ion Ratio Lower Upper  
178 100  
176 19.1 15.4 23.0  
179 15.2 12.6 18.8



#26  
Anthracene  
Concen: 0.086 ng  
RT: 16.870 min Scan# 1724  
Delta R.T. -0.000 min  
Lab File: BN035277.D  
Acq: 25 Nov 2024 10:16

Tgt Ion:178 Resp: 2057  
Ion Ratio Lower Upper  
178 100  
176 18.3 15.0 22.4  
179 15.9 12.4 18.6

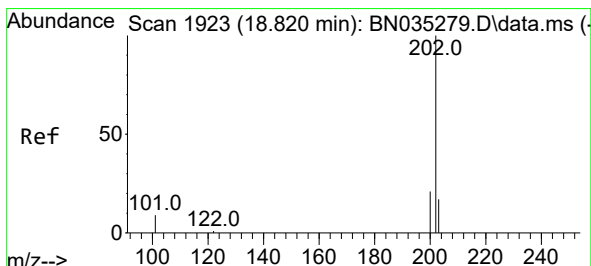
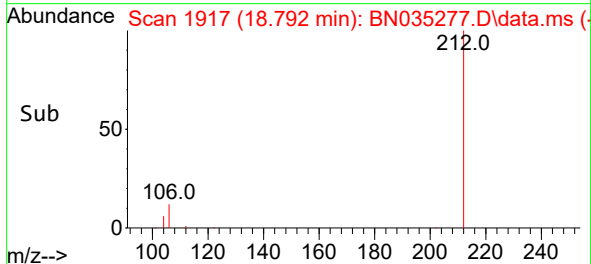
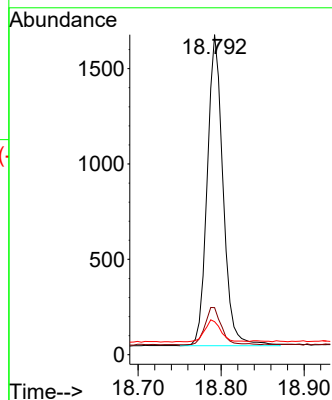
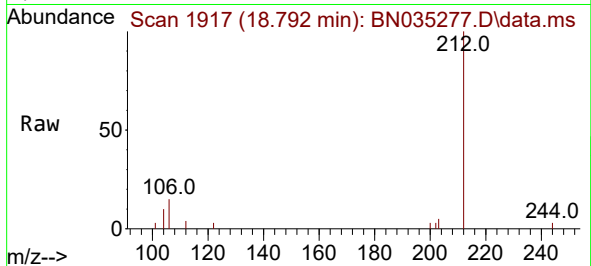




#27  
Fluoranthene-d10  
Concen: 0.089 ng  
RT: 18.792 min Scan# 1917  
Delta R.T. -0.000 min  
Lab File: BN035277.D  
Acq: 25 Nov 2024 10:16

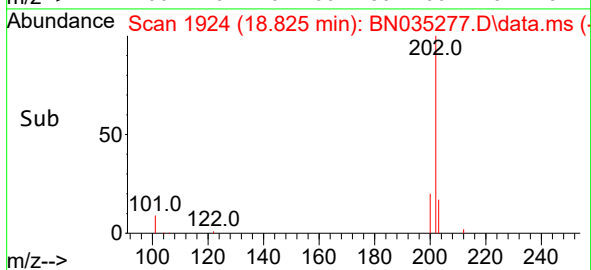
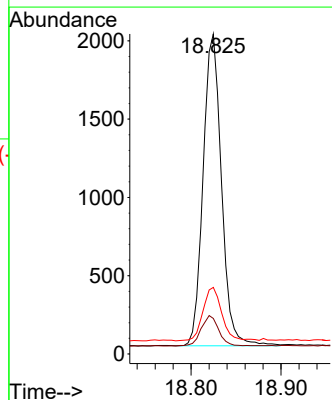
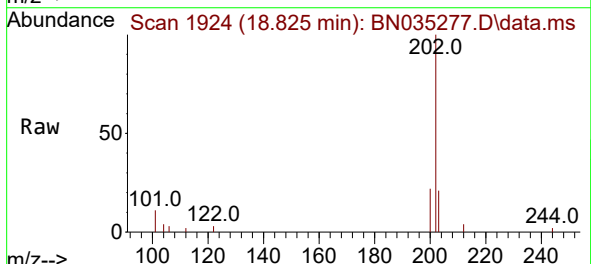
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC0.1

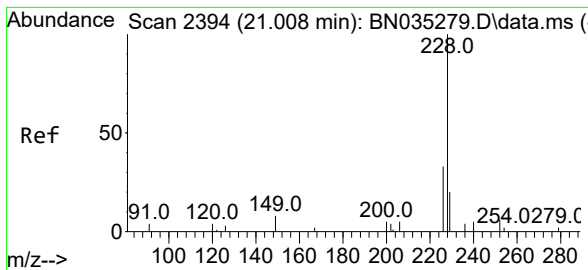
Tgt Ion:212 Resp: 2168  
Ion Ratio Lower Upper  
212 100  
106 12.5 9.8 14.8  
104 7.1 5.6 8.4



#28  
Fluoranthene  
Concen: 0.080 ng  
RT: 18.825 min Scan# 1924  
Delta R.T. 0.005 min  
Lab File: BN035277.D  
Acq: 25 Nov 2024 10:16

Tgt Ion:202 Resp: 2840  
Ion Ratio Lower Upper  
202 100  
101 9.6 7.6 11.4  
203 17.6 13.8 20.8





#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.008 min Scan# 21

Delta R.T. -0.000 min

Lab File: BN035277.D

Acq: 25 Nov 2024 10:16

Instrument :

BNA\_N

ClientSampleId :

SSTDICC0.1

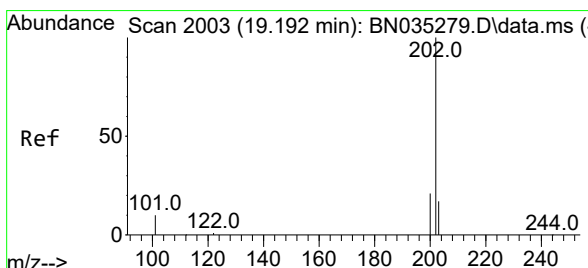
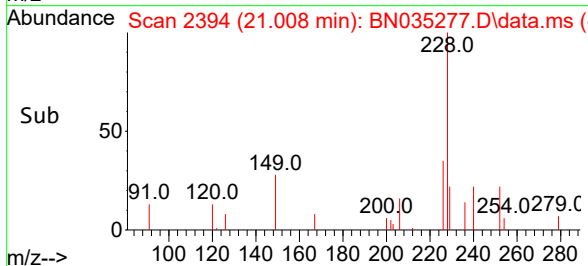
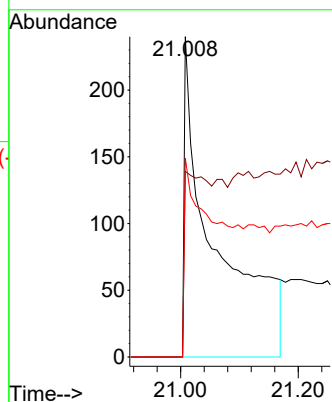
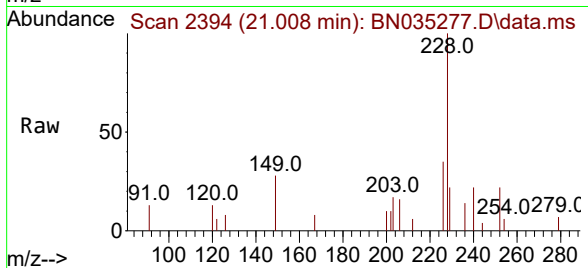
Tgt Ion:240 Resp: 834

Ion Ratio Lower Upper

240 100

120 57.9 54.9 82.3

236 62.1 54.0 81.0



#30

Pyrene

Concen: 0.093 ng

RT: 19.192 min Scan# 2003

Delta R.T. -0.000 min

Lab File: BN035277.D

Acq: 25 Nov 2024 10:16

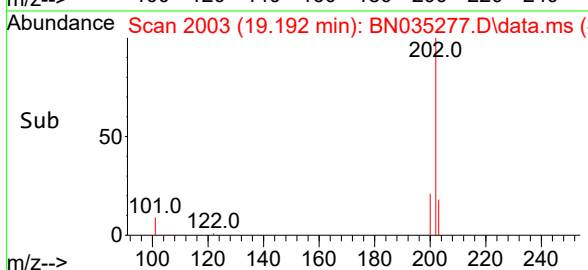
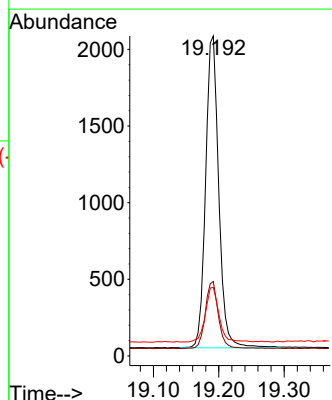
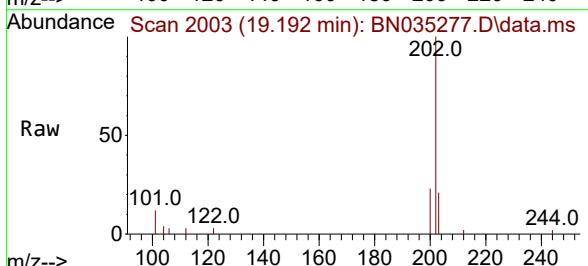
Tgt Ion:202 Resp: 2830

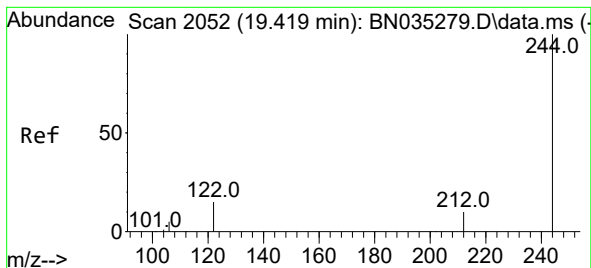
Ion Ratio Lower Upper

202 100

200 21.3 16.8 25.2

203 17.9 14.4 21.6





#31

Terphenyl-d14

Concen: 0.085 ng

RT: 19.419 min Scan# 2052

Delta R.T. 0.000 min

Lab File: BN035277.D

Acq: 25 Nov 2024 10:16

Instrument :

BNA\_N

ClientSampleId :

SSTDICC0.1

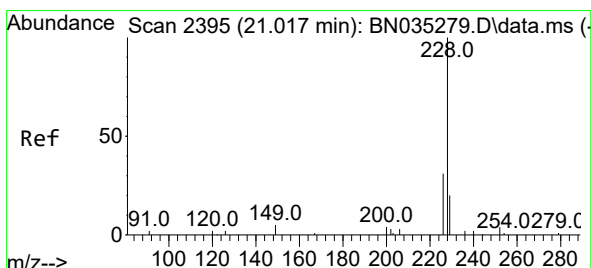
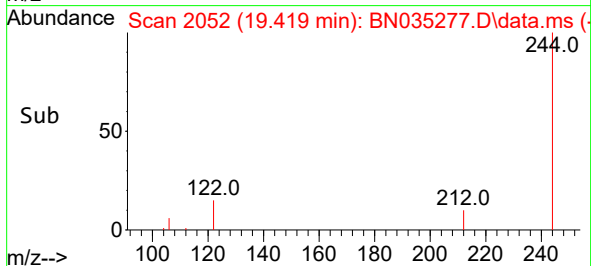
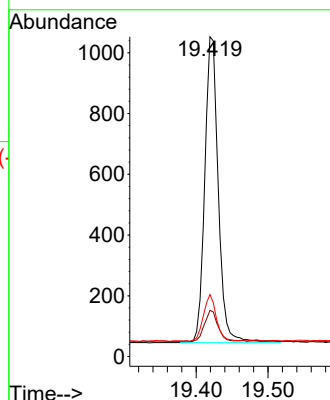
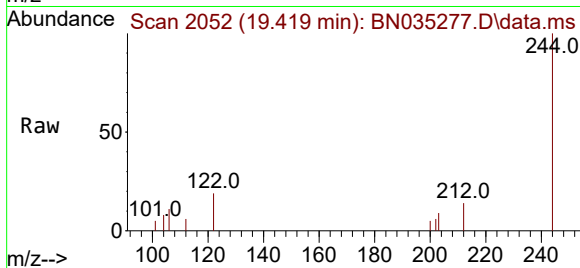
Tgt Ion:244 Resp: 1310

Ion Ratio Lower Upper

244 100

212 14.4 9.4 14.0#

122 19.4 13.0 19.4



#32

Benzo(a)anthracene

Concen: 0.093 ng

RT: 21.017 min Scan# 2395

Delta R.T. 0.000 min

Lab File: BN035277.D

Acq: 25 Nov 2024 10:16

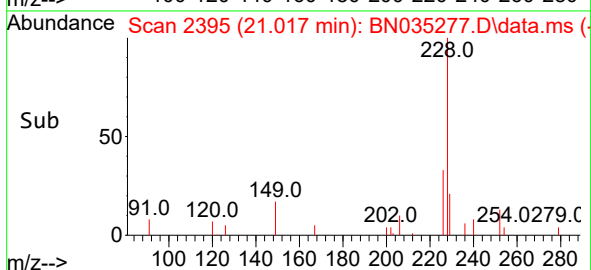
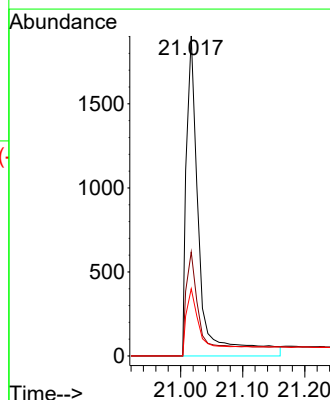
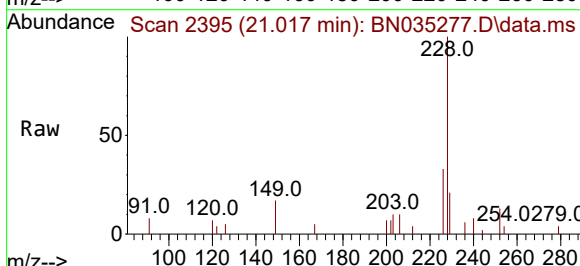
Tgt Ion:228 Resp: 2709

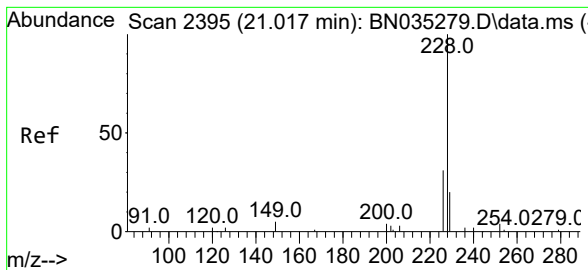
Ion Ratio Lower Upper

228 100

226 32.5 24.7 37.1

229 21.0 16.2 24.2





#33

Chrysene

Concen: 0.093 ng

RT: 21.017 min Scan# 21

Delta R.T. -0.000 min

Lab File: BN035277.D

Acq: 25 Nov 2024 10:16

Instrument :

BNA\_N

ClientSampleId :

SSTDICC0.1

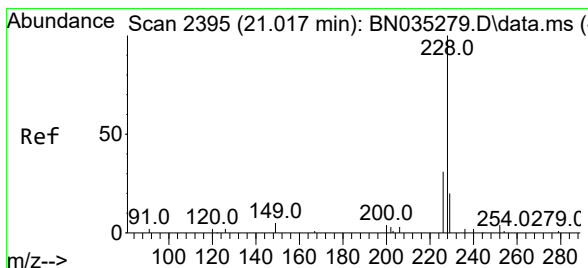
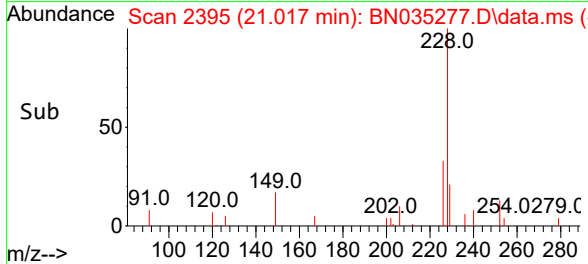
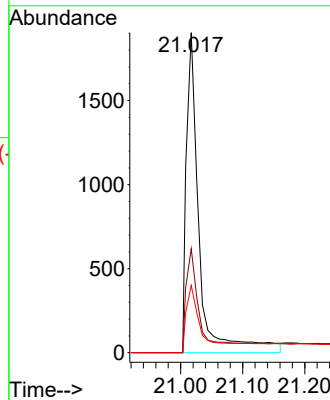
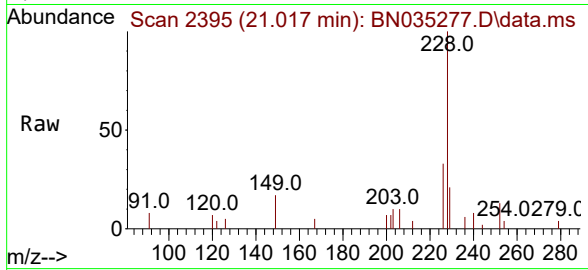
Tgt Ion:228 Resp: 2709

Ion Ratio Lower Upper

228 100

226 32.5 24.7 37.1

229 21.0 16.2 24.2



#34

Bis(2-ethylhexyl)phthalate

Concen: Below Cal

RT: 21.017 min Scan# 2395

Delta R.T. 0.000 min

Lab File: BN035277.D

Acq: 25 Nov 2024 10:16

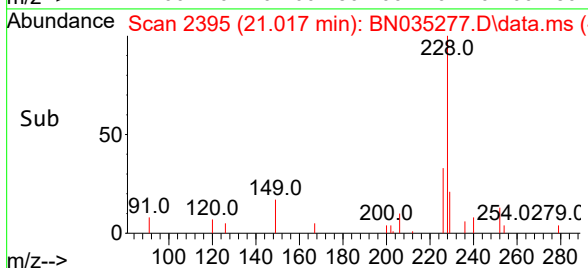
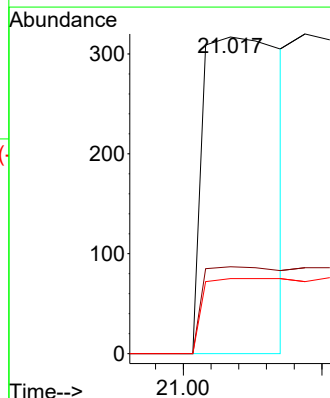
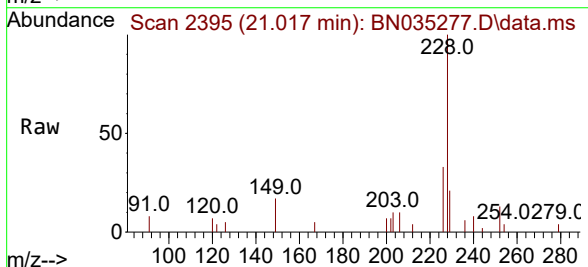
Tgt Ion:149 Resp: 540

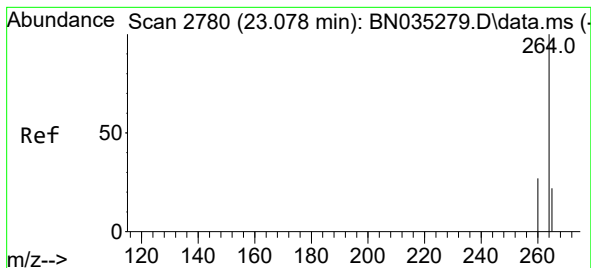
Ion Ratio Lower Upper

149 100

167 27.4 0.0 0.0#

279 30.7 13.0 19.6#





#35

Perylene-d12

Concen: 0.400 ng

RT: 23.081 min Scan# 21

Delta R.T. 0.003 min

Lab File: BN035277.D

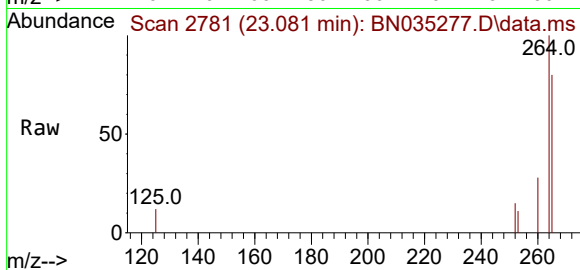
Acq: 25 Nov 2024 10:16

Instrument :

BNA\_N

ClientSampleId :

SSTDICC0.1



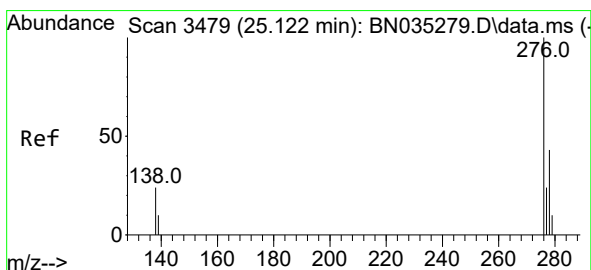
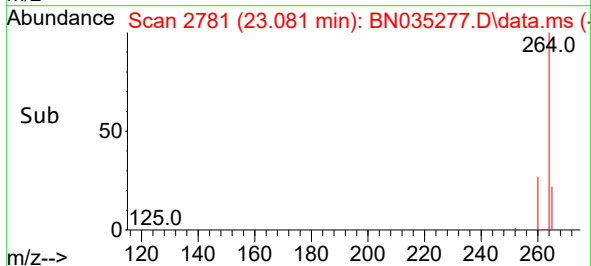
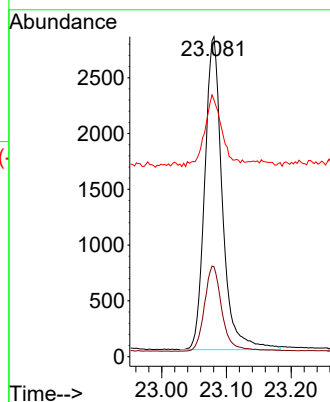
Tgt Ion:264 Resp: 5298

Ion Ratio Lower Upper

264 100

260 28.1 22.3 33.5

265 80.3 68.6 103.0



#36

Indeno(1,2,3-cd)pyrene

Concen: 0.084 ng

RT: 25.121 min Scan# 3479

Delta R.T. -0.000 min

Lab File: BN035277.D

Acq: 25 Nov 2024 10:16

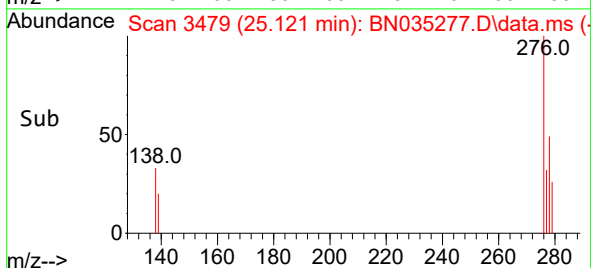
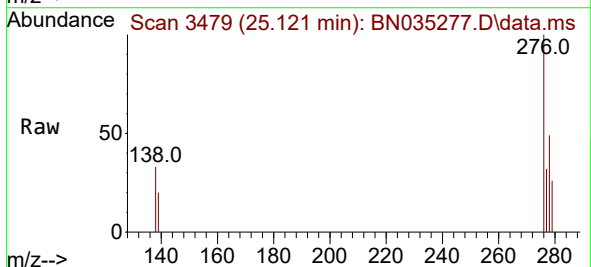
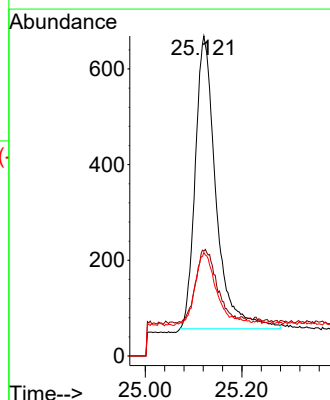
Tgt Ion:276 Resp: 1824

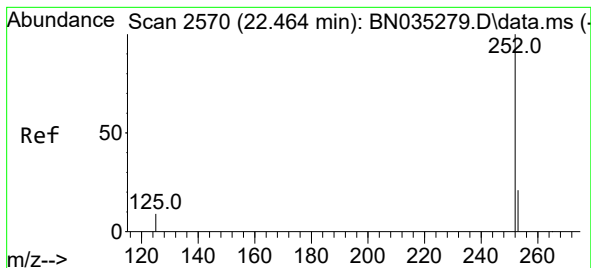
Ion Ratio Lower Upper

276 100

138 21.8 18.8 28.2

277 22.8 18.2 27.4





#37

Benzo(b)fluoranthene

Concen: 0.087 ng

RT: 22.464 min Scan# 21

Delta R.T. -0.000 min

Lab File: BN035277.D

Acq: 25 Nov 2024 10:16

Instrument :

BNA\_N

ClientSampleId :

SSTDICC0.1

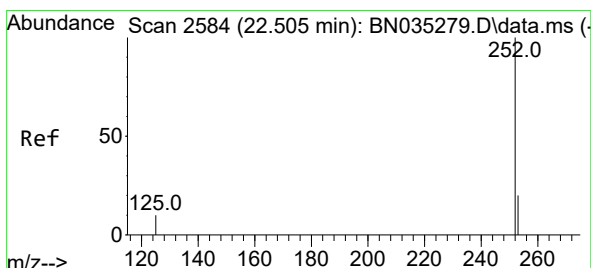
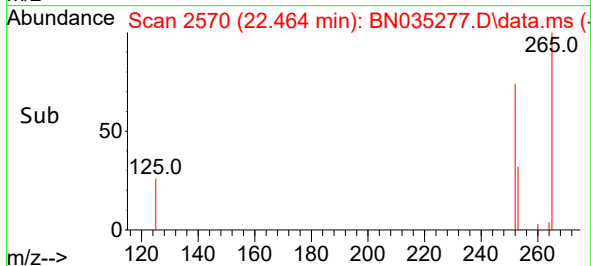
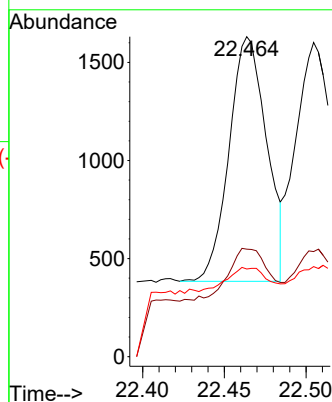
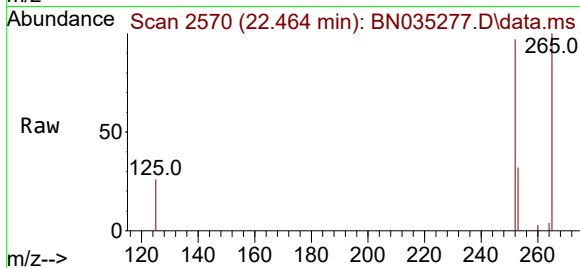
Tgt Ion:252 Resp: 1993

Ion Ratio Lower Upper

252 100

253 33.6 20.2 30.2#

125 27.4 12.0 18.0#



#38

Benzo(k)fluoranthene

Concen: 0.085 ng

RT: 22.505 min Scan# 2584

Delta R.T. -0.000 min

Lab File: BN035277.D

Acq: 25 Nov 2024 10:16

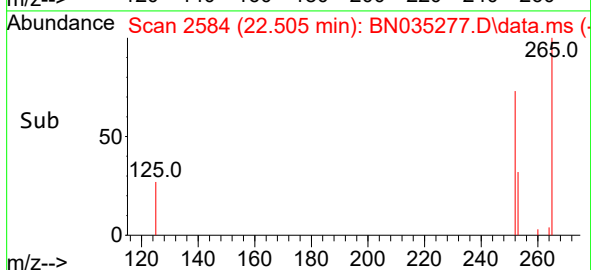
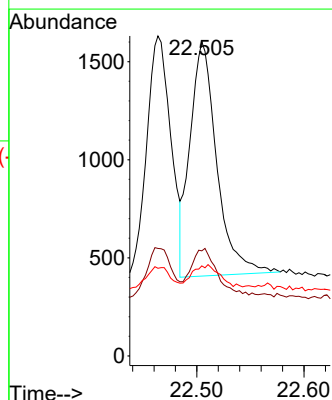
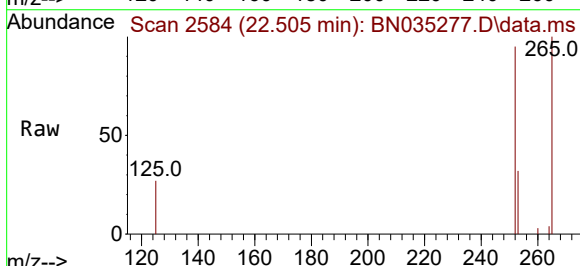
Tgt Ion:252 Resp: 2076

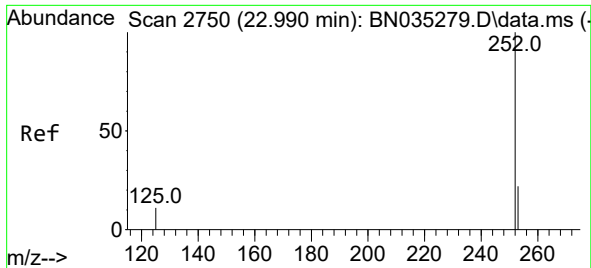
Ion Ratio Lower Upper

252 100

253 33.5 20.1 30.1#

125 28.7 12.7 19.1#

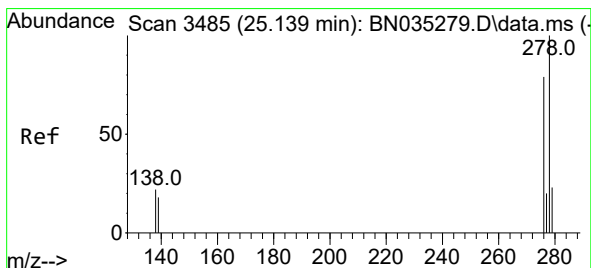
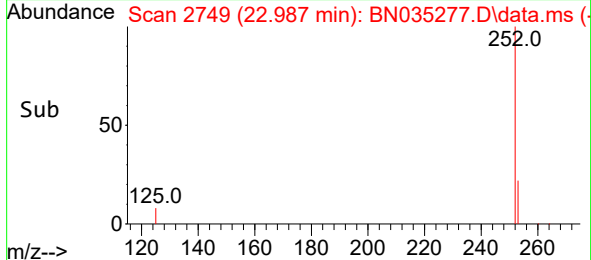
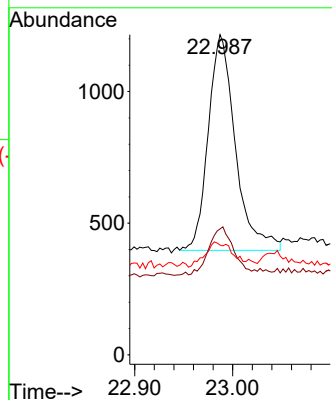
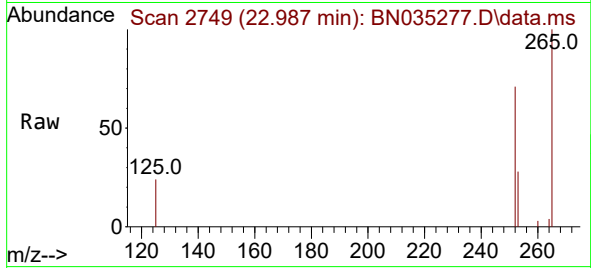




#39  
Benzo(a)pyrene  
Concen: 0.090 ng  
RT: 22.987 min Scan# 21  
Delta R.T. -0.003 min  
Lab File: BN035277.D  
Acq: 25 Nov 2024 10:16

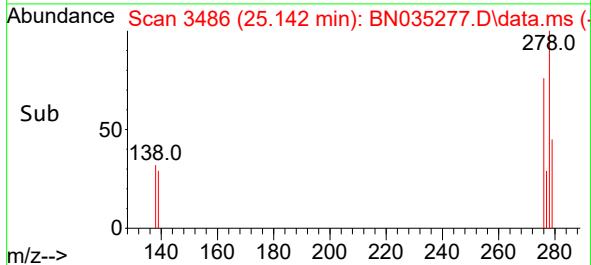
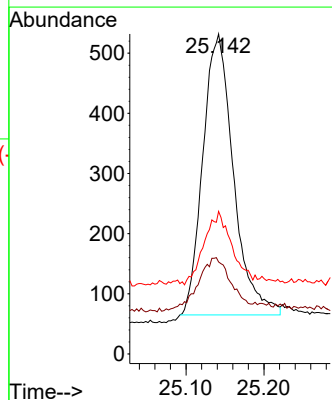
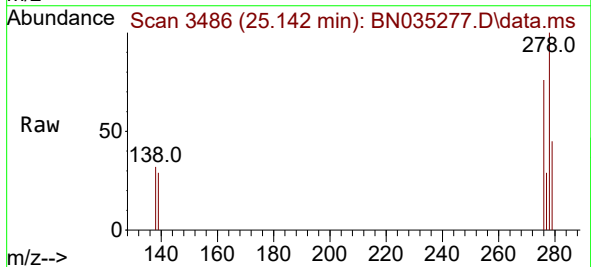
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC0.1

Tgt Ion:252 Resp: 1578  
Ion Ratio Lower Upper  
252 100  
253 39.3 22.3 33.5#  
125 34.3 15.3 22.9#

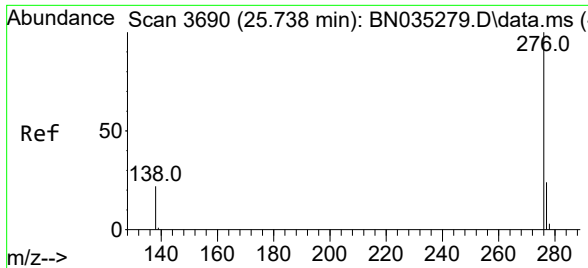


#40  
Dibenzo(a,h)anthracene  
Concen: 0.078 ng  
RT: 25.142 min Scan# 3486  
Delta R.T. 0.003 min  
Lab File: BN035277.D  
Acq: 25 Nov 2024 10:16

Tgt Ion:278 Resp: 1273  
Ion Ratio Lower Upper  
278 100  
139 28.8 17.0 25.6#  
279 44.5 23.0 34.4#

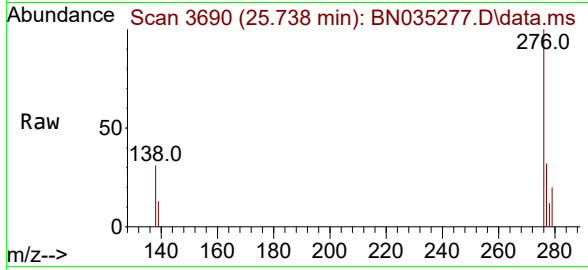




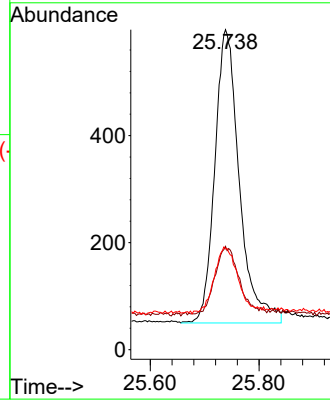
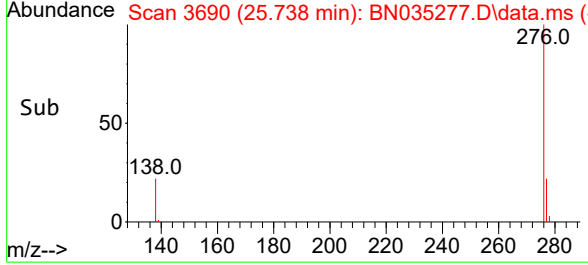


#41  
Benzo(g,h,i)perylene  
Concen: 0.091 ng  
RT: 25.738 min Scan# 30  
Delta R.T. -0.000 min  
Lab File: BN035277.D  
Acq: 25 Nov 2024 10:16

Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC0.1



Tgt Ion:276 Resp: 1716  
Ion Ratio Lower Upper  
276 100  
277 32.3 21.1 31.7#  
138 31.4 19.8 29.8#



Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN112524\  
 Data File : BN035278.D  
 Acq On : 25 Nov 2024 10:52  
 Operator : RC/JU  
 Sample : SSTDICC0.2  
 Misc :  
 ALS Vial : 53 Sample Multiplier: 1

Instrument :  
 BNA\_N  
 ClientSampleId :  
 SSTDICC0.2

Quant Time: Nov 25 18:31:59 2024  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\8270-SIM-BN112524.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Mon Nov 25 14:32:52 2024  
 Response via : Initial Calibration

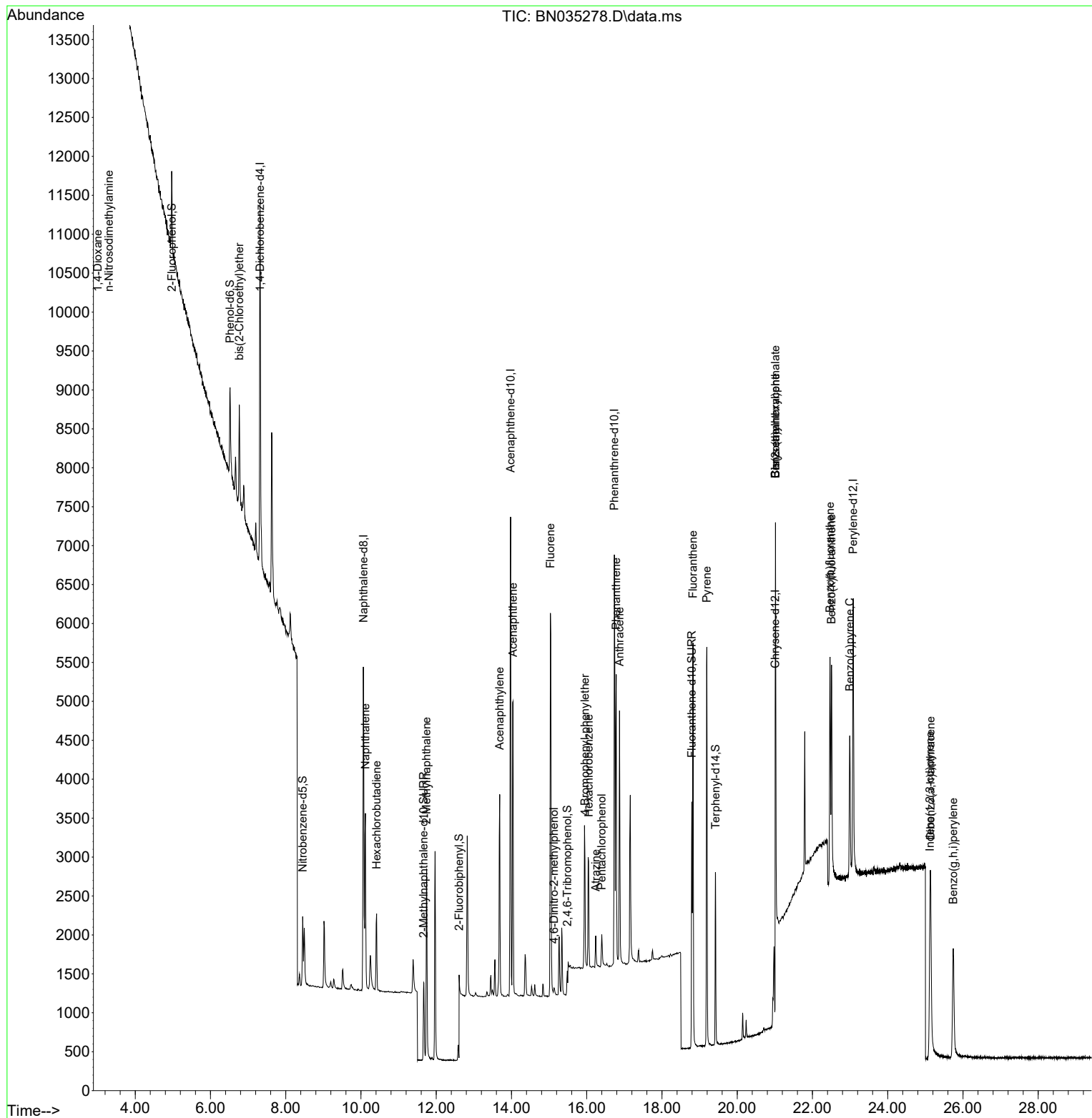
| Compound                      | R.T.   | QIon | Response | Conc  | Units | Dev(Min) |
|-------------------------------|--------|------|----------|-------|-------|----------|
| Internal Standards            |        |      |          |       |       |          |
| 1) 1,4-Dichlorobenzene-d4     | 7.315  | 152  | 2248     | 0.400 | ng    | 0.00     |
| 7) Naphthalene-d8             | 10.063 | 136  | 5670     | 0.400 | ng    | 0.00     |
| 13) Acenaphthene-d10          | 13.976 | 164  | 3200     | 0.400 | ng    | 0.00     |
| 19) Phenanthrene-d10          | 16.734 | 188  | 7531     | 0.400 | ng    | 0.00     |
| 29) Chrysene-d12              | 21.008 | 240  | 797      | 0.400 | ng    | 0.00     |
| 35) Perylene-d12              | 23.084 | 264  | 4527     | 0.400 | ng    | 0.00     |
| System Monitoring Compounds   |        |      |          |       |       |          |
| 4) 2-Fluorophenol             | 4.975  | 112  | 891      | 0.210 | ng    | 0.00     |
| 5) Phenol-d6                  | 6.520  | 99   | 1264     | 0.213 | ng    | 0.00     |
| 8) Nitrobenzene-d5            | 8.450  | 82   | 1060     | 0.231 | ng    | 0.00     |
| 11) 2-Methylnaphthalene-d10   | 11.666 | 152  | 1506     | 0.190 | ng    | 0.00     |
| 14) 2,4,6-Tribromophenol      | 15.484 | 330  | 279      | 0.171 | ng    | 0.00     |
| 15) 2-Fluorobiphenyl          | 12.608 | 172  | 679      | 0.384 | ng    | 0.00     |
| 27) Fluoranthene-d10          | 18.792 | 212  | 3625     | 0.180 | ng    | 0.00     |
| 31) Terphenyl-d14             | 19.424 | 244  | 2197     | 0.149 | ng    | 0.00     |
| Target Compounds              |        |      |          |       |       |          |
| 2) 1,4-Dioxane                | 3.003  | 88   | 310      | 0.192 | ng    | # 75     |
| 3) n-Nitrosodimethylamine     | 3.299  | 42   | 314      | 0.188 | ng    | # 82     |
| 6) bis(2-Chloroethyl)ether    | 6.766  | 93   | 978      | 0.196 | ng    | 98       |
| 9) Naphthalene                | 10.116 | 128  | 2990     | 0.190 | ng    | 96       |
| 10) Hexachlorobutadiene       | 10.415 | 225  | 818      | 0.185 | ng    | # 98     |
| 12) 2-Methylnaphthalene       | 11.742 | 142  | 1929     | 0.187 | ng    | 97       |
| 16) Acenaphthylene            | 13.688 | 152  | 2991     | 0.186 | ng    | 99       |
| 17) Acenaphthene              | 14.040 | 154  | 1852     | 0.183 | ng    | 97       |
| 18) Fluorene                  | 15.035 | 166  | 2587     | 0.182 | ng    | 98       |
| 20) 4,6-Dinitro-2-methylph... | 15.131 | 198  | 102      | 0.283 | ng    | # 49     |
| 21) 4-Bromophenyl-phenylether | 15.952 | 248  | 888      | 0.186 | ng    | # 70     |
| 22) Hexachlorobenzene         | 16.051 | 284  | 1264     | 0.185 | ng    | 98       |
| 23) Atrazine                  | 16.237 | 200  | 357      | 0.177 | ng    | 92       |
| 24) Pentachlorophenol         | 16.399 | 266  | 252      | 0.154 | ng    | 97       |
| 25) Phenanthrene              | 16.783 | 178  | 4155     | 0.180 | ng    | 100      |
| 26) Anthracene                | 16.870 | 178  | 3384     | 0.170 | ng    | 99       |
| 28) Fluoranthene              | 18.825 | 202  | 4828     | 0.165 | ng    | 100      |
| 30) Pyrene                    | 19.192 | 202  | 4697     | 0.162 | ng    | 99       |
| 32) Benzo(a)anthracene        | 21.017 | 228  | 4459     | 0.161 | ng    | 99       |
| 33) Chrysene                  | 21.017 | 228  | 4459     | 0.161 | ng    | 99       |
| 34) Bis(2-ethylhexyl)phtha... | 21.017 | 149  | 696      | 0.104 | ng    | # 92     |
| 36) Indeno(1,2,3-cd)pyrene    | 25.121 | 276  | 3191     | 0.172 | ng    | 99       |
| 37) Benzo(b)fluoranthene      | 22.467 | 252  | 3513     | 0.179 | ng    | # 90     |
| 38) Benzo(k)fluoranthene      | 22.505 | 252  | 3588     | 0.172 | ng    | # 90     |
| 39) Benzo(a)pyrene            | 22.990 | 252  | 2673     | 0.178 | ng    | # 87     |
| 40) Dibenzo(a,h)anthracene    | 25.142 | 278  | 2328     | 0.166 | ng    | # 90     |
| 41) Benzo(g,h,i)perylene      | 25.741 | 276  | 2967     | 0.183 | ng    | 95       |

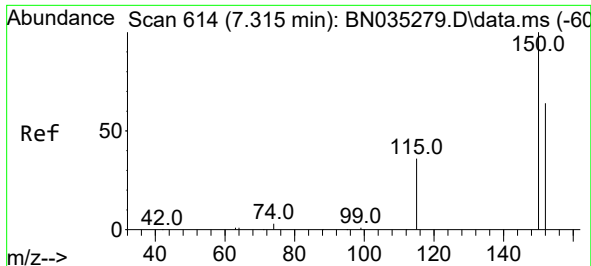
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN112524\  
Data File : BN035278.D  
Acq On : 25 Nov 2024 10:52  
Operator : RC/JU  
Sample : SSTDICC0.2  
Misc :  
ALS Vial : 53 Sample Multiplier: 1

Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC0.2

Quant Time: Nov 25 18:31:59 2024  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\8270-SIM-BN112524.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Mon Nov 25 14:32:52 2024  
Response via : Initial Calibration

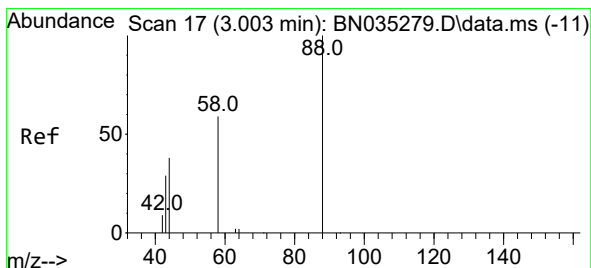
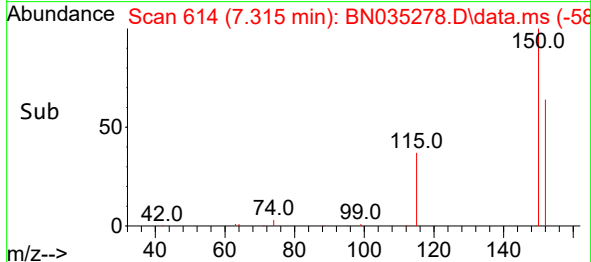
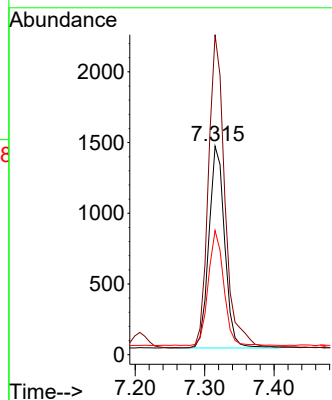
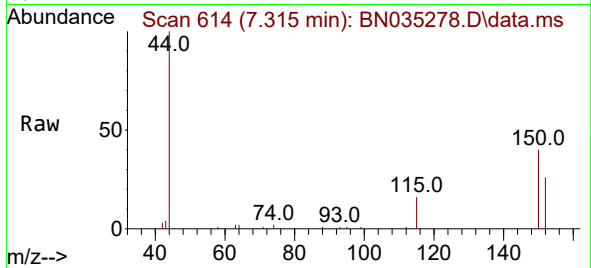




#1  
 1,4-Dichlorobenzene-d4  
 Concen: 0.400 ng  
 RT: 7.315 min Scan# 61  
 Delta R.T. -0.000 min  
 Lab File: BN035278.D  
 Acq: 25 Nov 2024 10:52

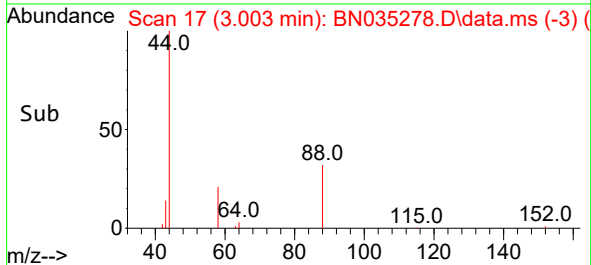
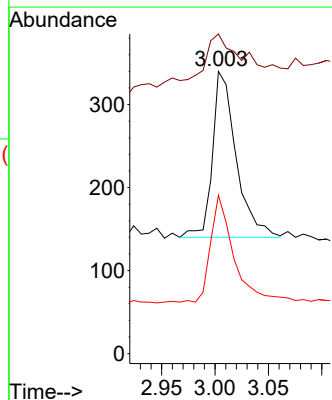
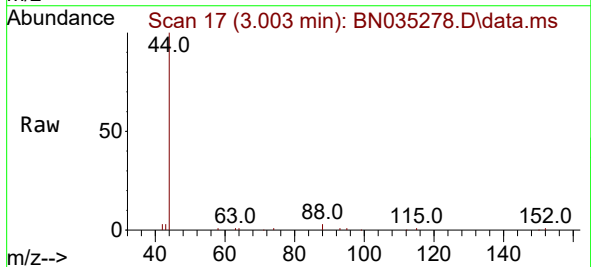
Instrument :  
 BNA\_N  
 ClientSampleId :  
 SSTDICC0.2

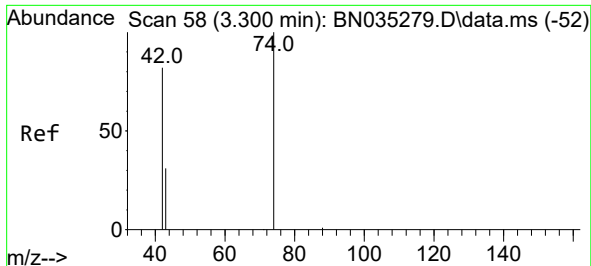
Tgt Ion:152 Resp: 2248  
 Ion Ratio Lower Upper  
 152 100  
 150 153.5 124.5 186.7  
 115 59.6 47.8 71.8



#2  
 1,4-Dioxane  
 Concen: 0.192 ng  
 RT: 3.003 min Scan# 17  
 Delta R.T. 0.000 min  
 Lab File: BN035278.D  
 Acq: 25 Nov 2024 10:52

Tgt Ion: 88 Resp: 310  
 Ion Ratio Lower Upper  
 88 100  
 43 91.0 48.1 72.1#  
 58 65.5 46.9 70.3

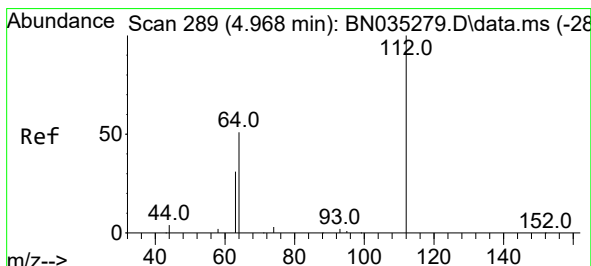
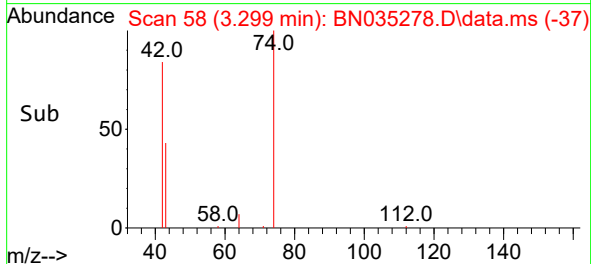
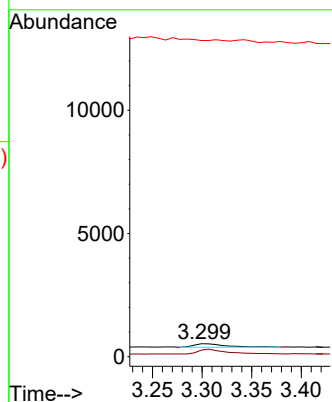
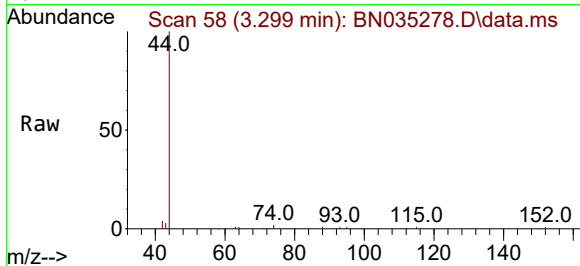




#3  
n-Nitrosodimethylamine  
Concen: 0.188 ng  
RT: 3.299 min Scan# 51  
Delta R.T. -0.001 min  
Lab File: BN035278.D  
Acq: 25 Nov 2024 10:52

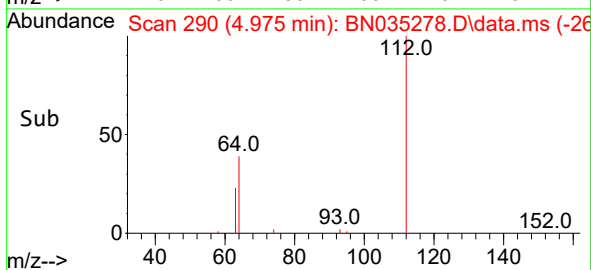
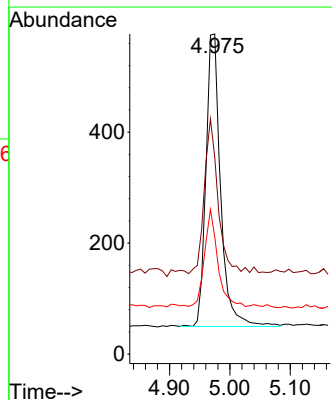
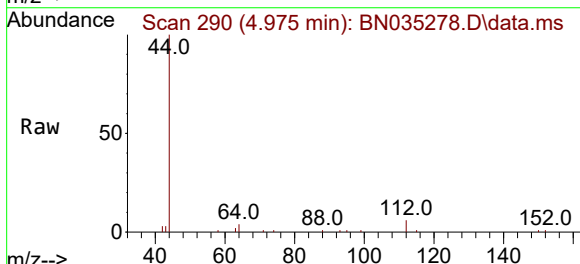
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC0.2

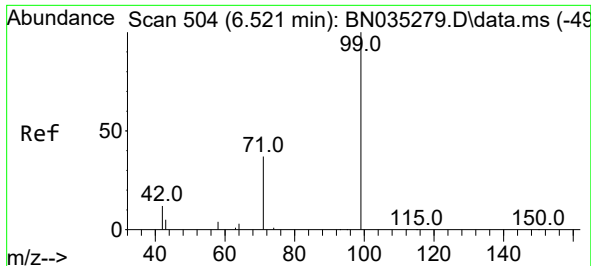
Tgt Ion: 42 Resp: 314  
Ion Ratio Lower Upper  
42 100  
74 125.8 102.7 154.1  
44 0.0 34.1 51.1#



#4  
2-Fluorophenol  
Concen: 0.210 ng  
RT: 4.975 min Scan# 290  
Delta R.T. 0.007 min  
Lab File: BN035278.D  
Acq: 25 Nov 2024 10:52

Tgt Ion: 112 Resp: 891  
Ion Ratio Lower Upper  
112 100  
64 50.3 40.4 60.6  
63 29.5 23.8 35.8

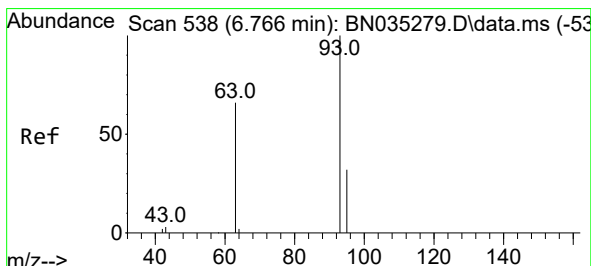
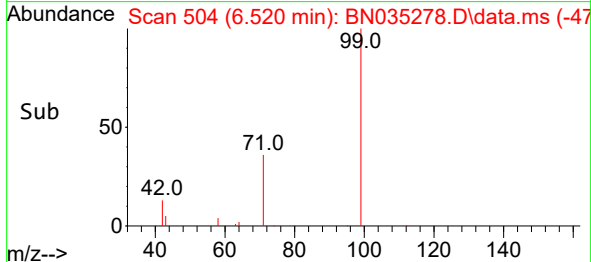
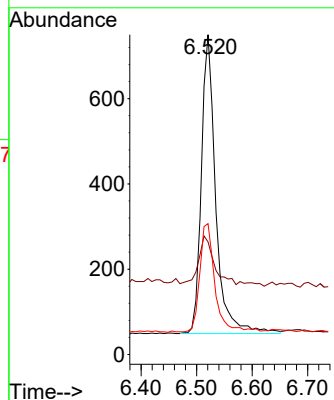
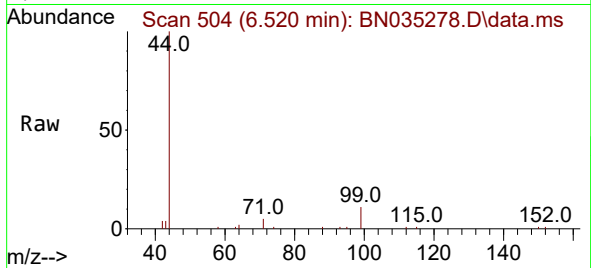




#5  
Phenol-d6  
Concen: 0.213 ng  
RT: 6.520 min Scan# 504  
Delta R.T. -0.000 min  
Lab File: BN035278.D  
Acq: 25 Nov 2024 10:52

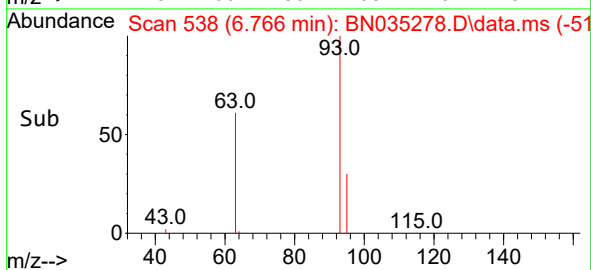
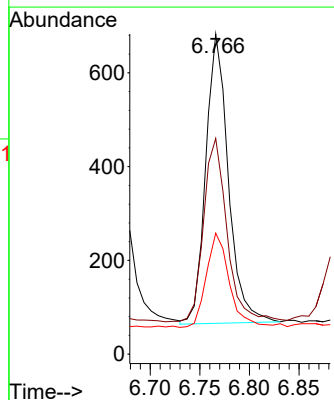
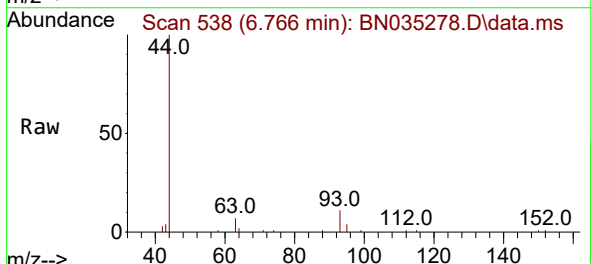
Instrument :  
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ClientSampleId :  
SSTDICC0.2

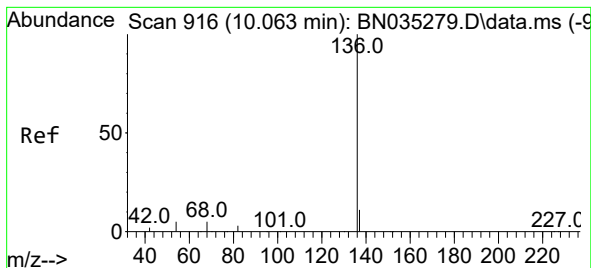
Tgt Ion: 99 Resp: 1264  
Ion Ratio Lower Upper  
99 100  
42 20.3 12.8 19.2#  
71 37.8 31.4 47.2



#6  
bis(2-Chloroethyl)ether  
Concen: 0.196 ng  
RT: 6.766 min Scan# 538  
Delta R.T. -0.000 min  
Lab File: BN035278.D  
Acq: 25 Nov 2024 10:52

Tgt Ion: 93 Resp: 978  
Ion Ratio Lower Upper  
93 100  
63 66.0 52.3 78.5  
95 33.7 25.5 38.3





#7

Naphthalene-d8

Concen: 0.400 ng

RT: 10.063 min Scan# 916

Delta R.T. -0.000 min

Lab File: BN035278.D

Acq: 25 Nov 2024 10:52

Instrument :

BNA\_N

ClientSampleId :

SSTDICC0.2

Tgt Ion:136 Resp: 5670

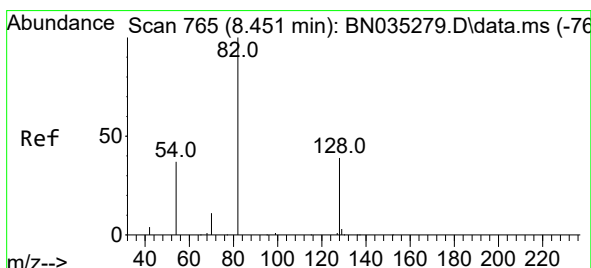
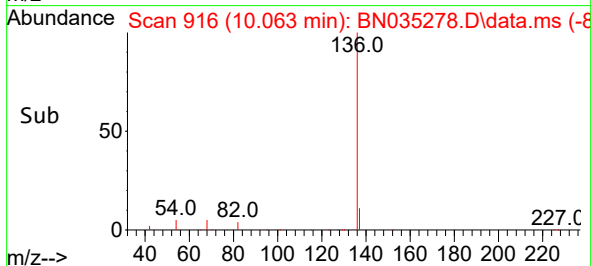
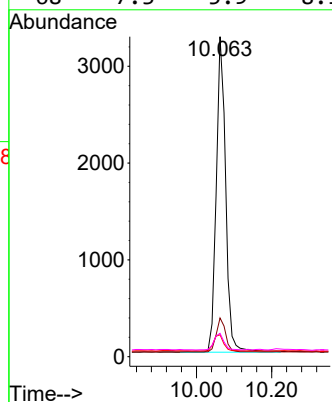
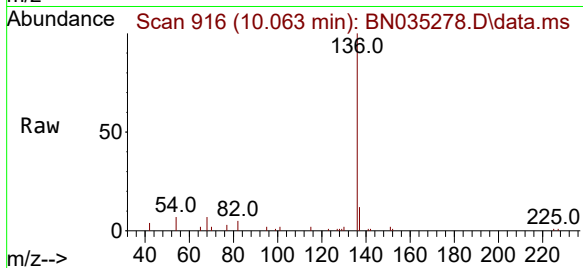
Ion Ratio Lower Upper

136 100

137 12.1 9.7 14.5

54 6.8 5.3 7.9

68 7.3 5.9 8.9



#8

Nitrobenzene-d5

Concen: 0.231 ng

RT: 8.450 min Scan# 765

Delta R.T. -0.000 min

Lab File: BN035278.D

Acq: 25 Nov 2024 10:52

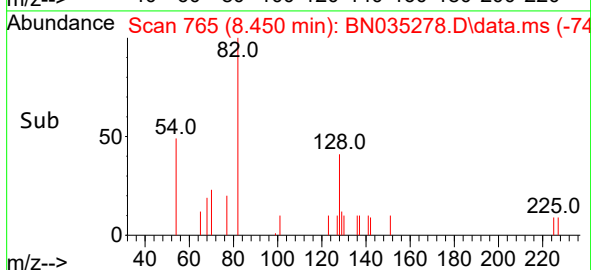
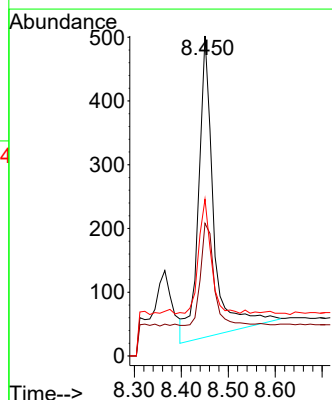
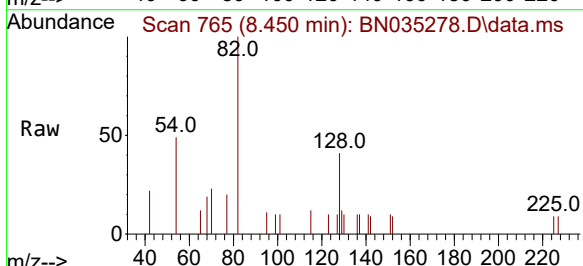
Tgt Ion: 82 Resp: 1060

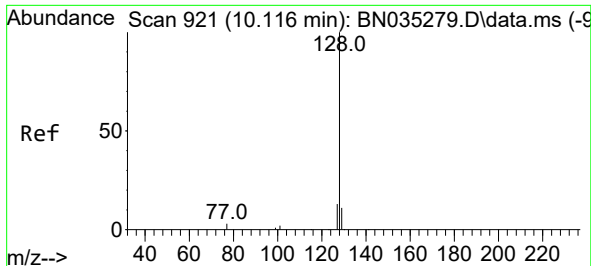
Ion Ratio Lower Upper

82 100

128 41.4 33.0 49.4

54 49.0 33.3 49.9

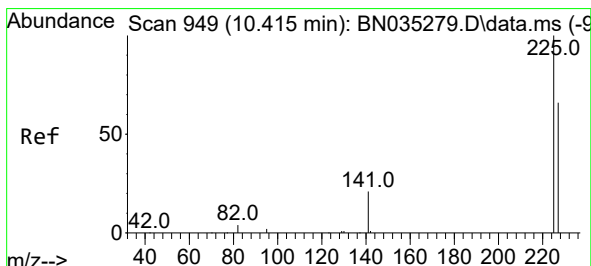
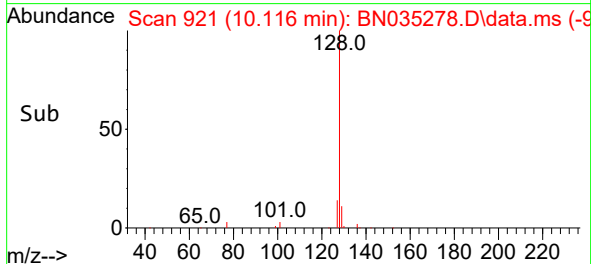
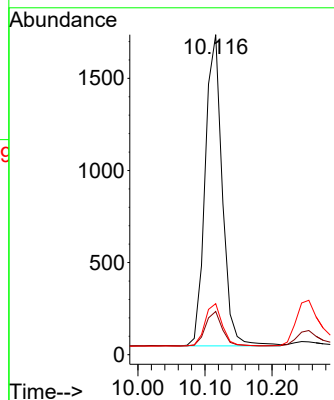
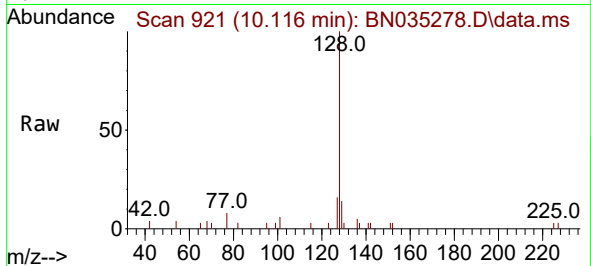




#9  
Naphthalene  
Concen: 0.190 ng  
RT: 10.116 min Scan# 911  
Delta R.T. -0.000 min  
Lab File: BN035278.D  
Acq: 25 Nov 2024 10:52

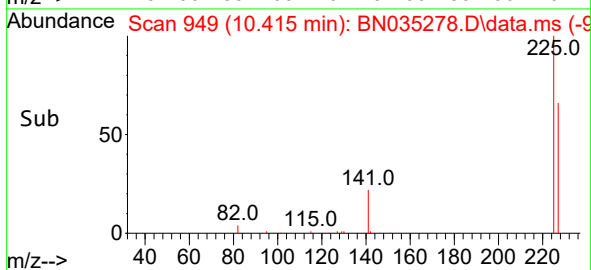
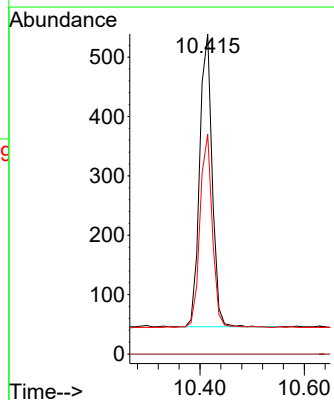
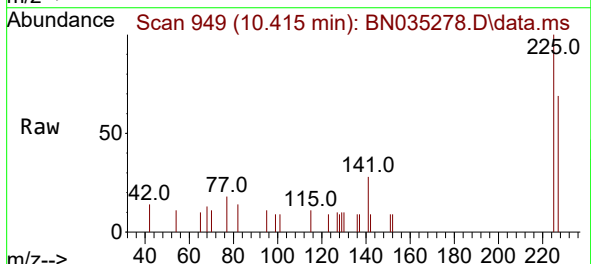
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC0.2

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 128   | Resp: | 2990  |
| Ion      | Ratio | Lower | Upper |
| 128      | 100   |       |       |
| 129      | 13.5  | 9.6   | 14.4  |
| 127      | 15.9  | 11.3  | 16.9  |

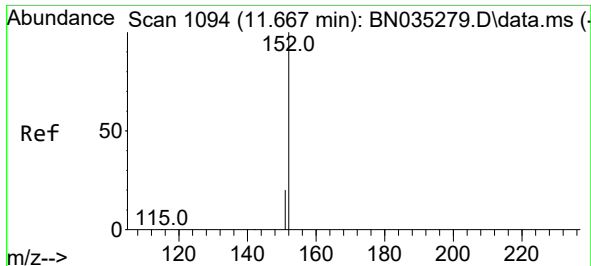


#10  
Hexachlorobutadiene  
Concen: 0.185 ng  
RT: 10.415 min Scan# 949  
Delta R.T. -0.000 min  
Lab File: BN035278.D  
Acq: 25 Nov 2024 10:52

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 225   | Resp: | 818   |
| Ion      | Ratio | Lower | Upper |
| 225      | 100   |       |       |
| 223      | 0.0   | 0.0   | 0.0   |
| 227      | 65.4  | 51.3  | 76.9  |



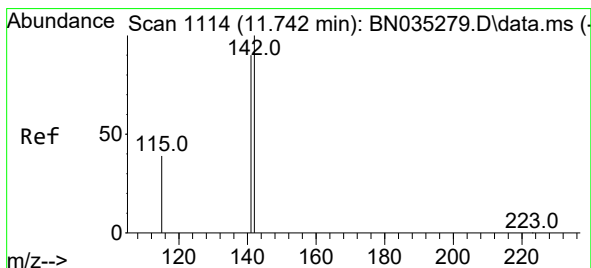
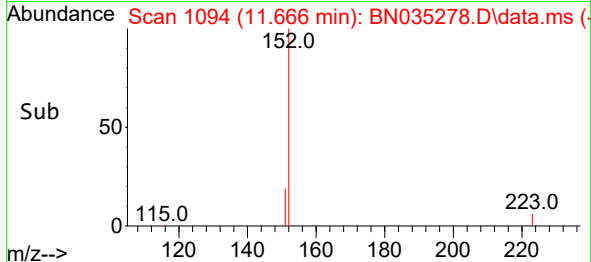
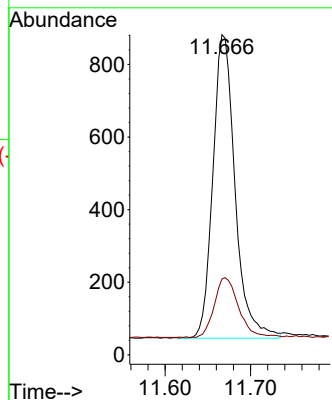
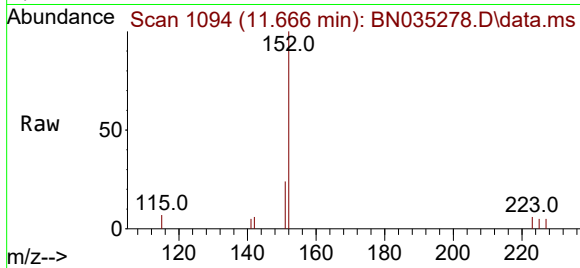




#11  
2-Methylnaphthalene-d10  
Concen: 0.190 ng  
RT: 11.666 min Scan# 1109  
Delta R.T. -0.000 min  
Lab File: BN035278.D  
Acq: 25 Nov 2024 10:52

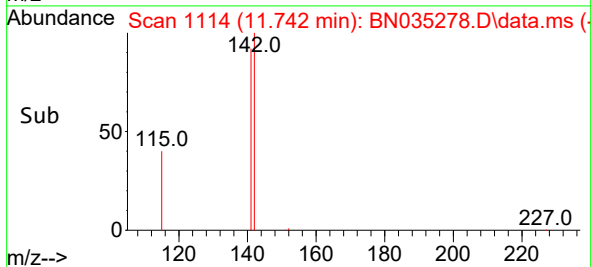
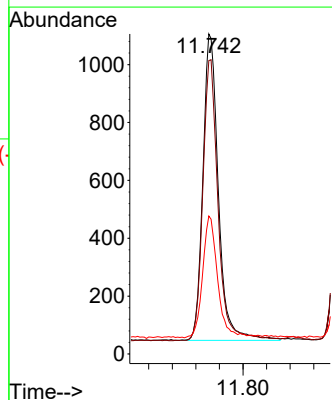
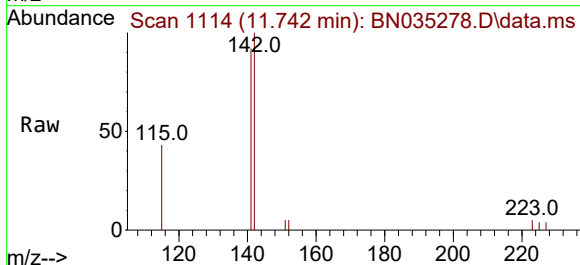
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC0.2

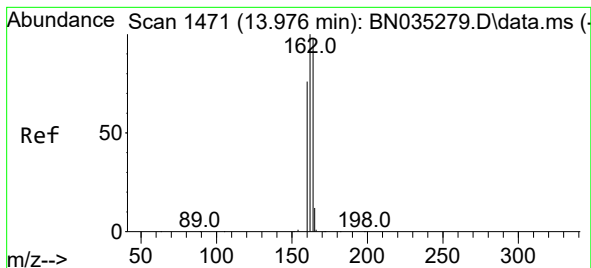
Tgt Ion:152 Resp: 1506  
Ion Ratio Lower Upper  
152 100  
151 22.0 17.2 25.8



#12  
2-Methylnaphthalene  
Concen: 0.187 ng  
RT: 11.742 min Scan# 1114  
Delta R.T. 0.000 min  
Lab File: BN035278.D  
Acq: 25 Nov 2024 10:52

Tgt Ion:142 Resp: 1929  
Ion Ratio Lower Upper  
142 100  
141 91.7 71.8 107.8  
115 43.1 32.6 49.0





#13

Acenaphthene-d10

Concen: 0.400 ng

RT: 13.976 min Scan# 1471

Delta R.T. -0.000 min

Lab File: BN035278.D

Acq: 25 Nov 2024 10:52

Instrument :

BNA\_N

ClientSampleId :

SSTDICC0.2

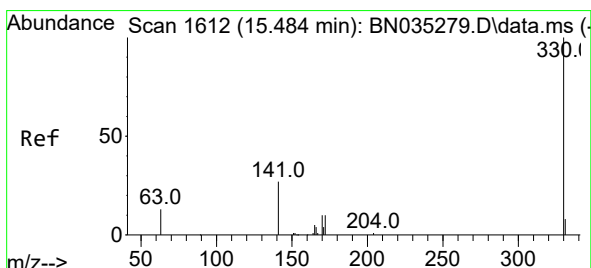
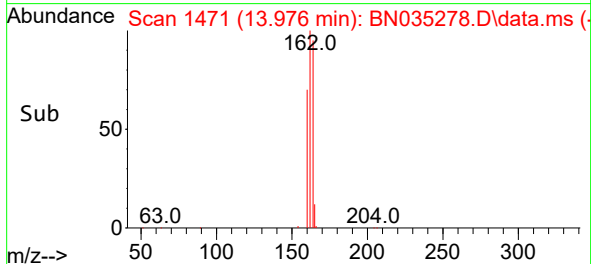
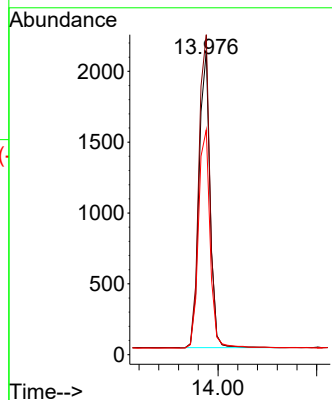
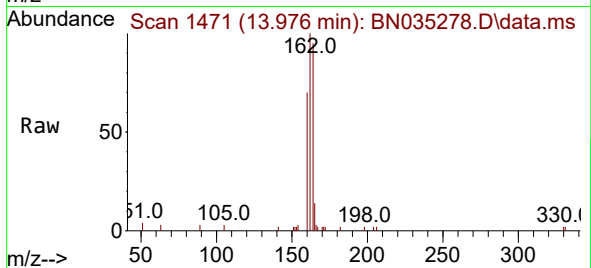
Tgt Ion:164 Resp: 3200

Ion Ratio Lower Upper

164 100

162 105.6 82.0 123.0

160 74.2 63.0 94.4



#14

2,4,6-Tribromophenol

Concen: 0.171 ng

RT: 15.484 min Scan# 1612

Delta R.T. -0.000 min

Lab File: BN035278.D

Acq: 25 Nov 2024 10:52

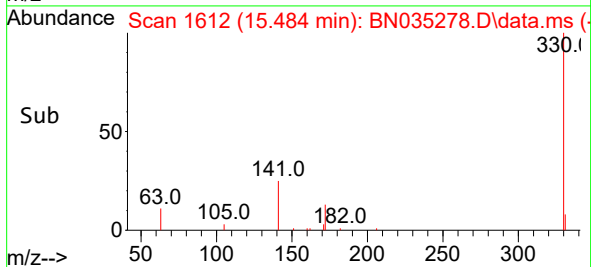
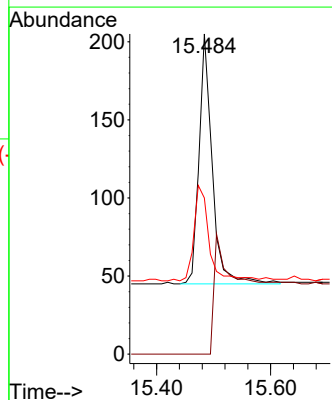
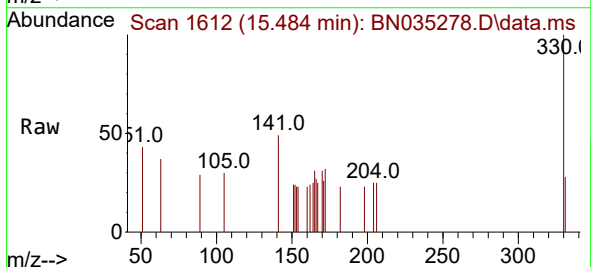
Tgt Ion:330 Resp: 279

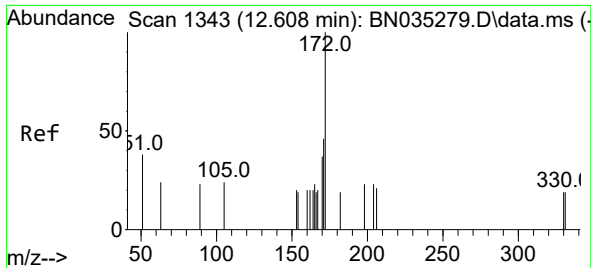
Ion Ratio Lower Upper

330 100

332 0.0 0.0 0.0

141 43.4 32.4 48.6

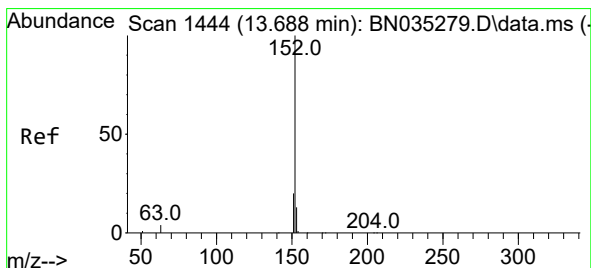
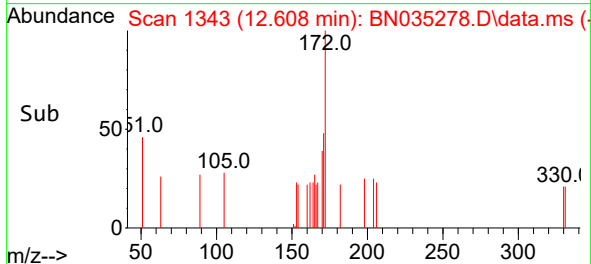
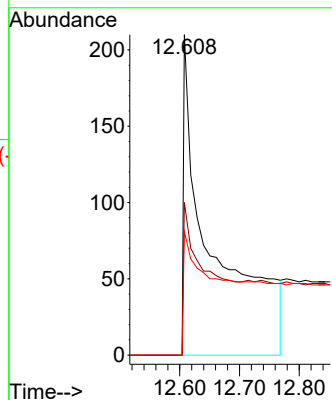
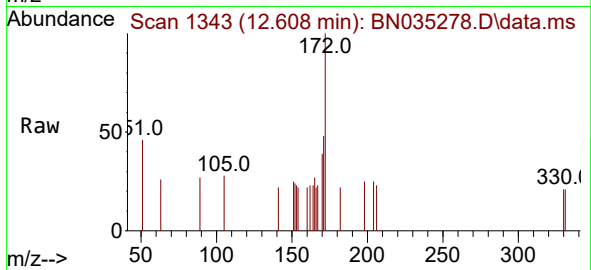




#15  
2-Fluorobiphenyl  
Concen: 0.384 ng  
RT: 12.608 min Scan# 11  
Delta R.T. -0.000 min  
Lab File: BN035278.D  
Acq: 25 Nov 2024 10:52

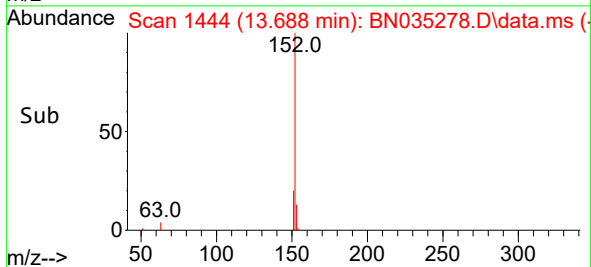
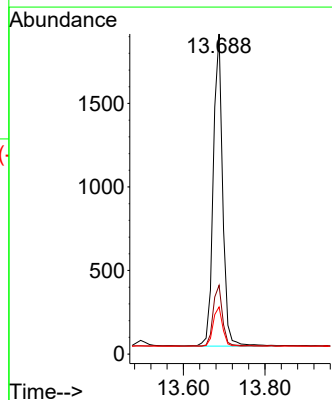
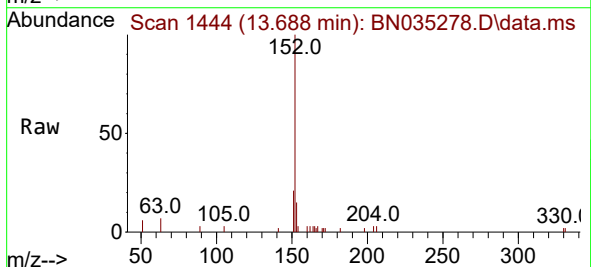
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC0.2

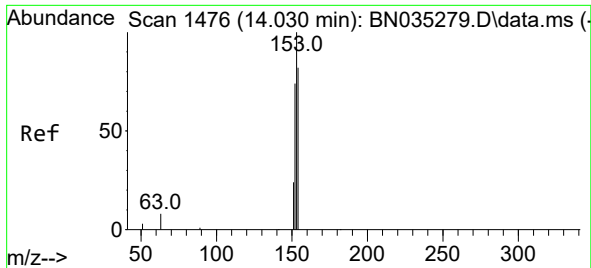
Tgt Ion:172 Resp: 679  
Ion Ratio Lower Upper  
172 100  
171 47.6 36.6 55.0  
170 38.6 29.7 44.5



#16  
Acenaphthylene  
Concen: 0.186 ng  
RT: 13.688 min Scan# 1444  
Delta R.T. -0.000 min  
Lab File: BN035278.D  
Acq: 25 Nov 2024 10:52

Tgt Ion:152 Resp: 2991  
Ion Ratio Lower Upper  
152 100  
151 19.4 15.9 23.9  
153 12.9 10.2 15.4

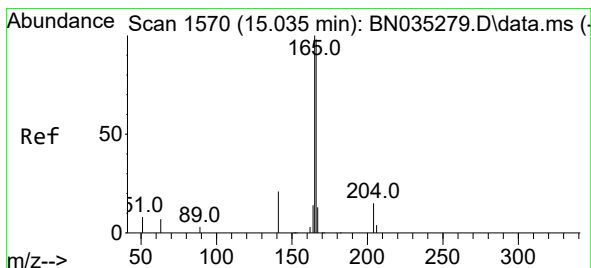
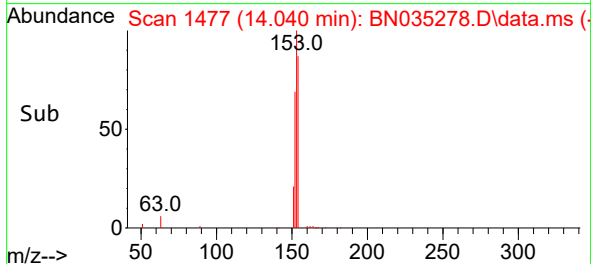
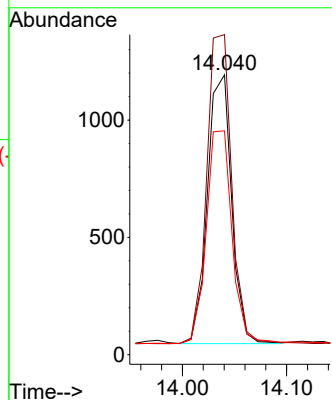
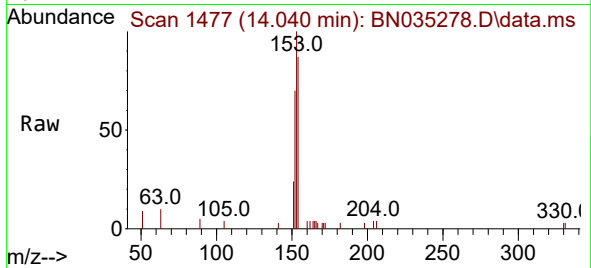




#17  
Acenaphthene  
Concen: 0.183 ng  
RT: 14.040 min Scan# 1476  
Delta R.T. 0.010 min  
Lab File: BN035278.D  
Acq: 25 Nov 2024 10:52

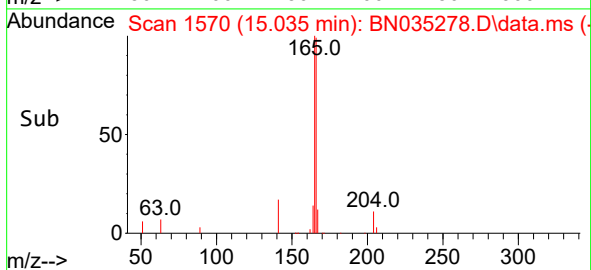
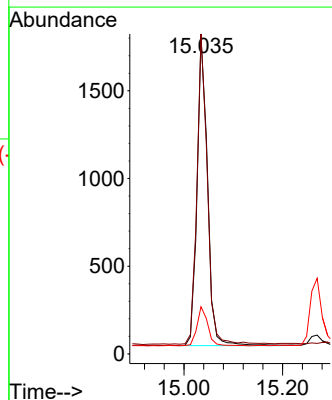
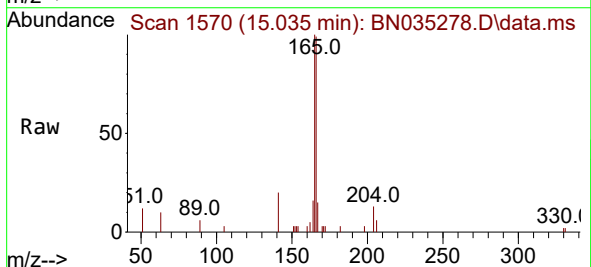
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC0.2

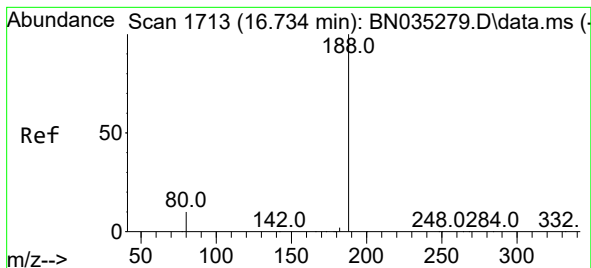
Tgt Ion:154 Resp: 1852  
Ion Ratio Lower Upper  
154 100  
153 119.7 96.1 144.1  
152 84.6 72.2 108.2



#18  
Fluorene  
Concen: 0.182 ng  
RT: 15.035 min Scan# 1570  
Delta R.T. -0.000 min  
Lab File: BN035278.D  
Acq: 25 Nov 2024 10:52

Tgt Ion:166 Resp: 2587  
Ion Ratio Lower Upper  
166 100  
165 99.7 81.2 121.8  
167 13.2 10.5 15.7





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 16.734 min Scan# 1

Delta R.T. -0.000 min

Lab File: BN035278.D

Acq: 25 Nov 2024 10:52

Instrument :

BNA\_N

ClientSampleId :

SSTDICC0.2

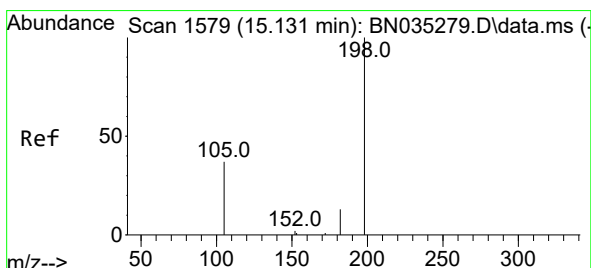
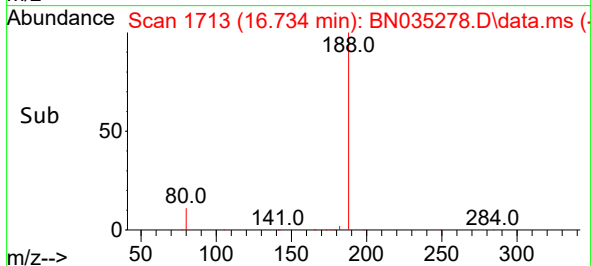
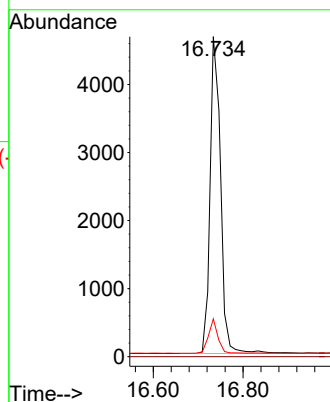
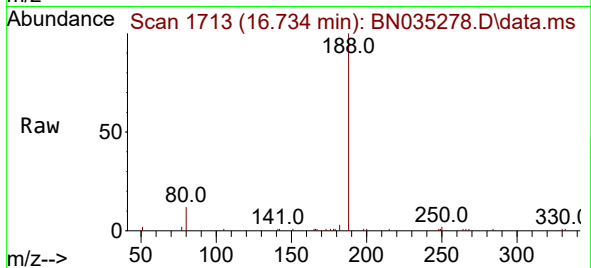
Tgt Ion:188 Resp: 7531

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 11.8 8.9 13.3



#20

4,6-Dinitro-2-methylphenol

Concen: 0.283 ng

RT: 15.131 min Scan# 1579

Delta R.T. -0.000 min

Lab File: BN035278.D

Acq: 25 Nov 2024 10:52

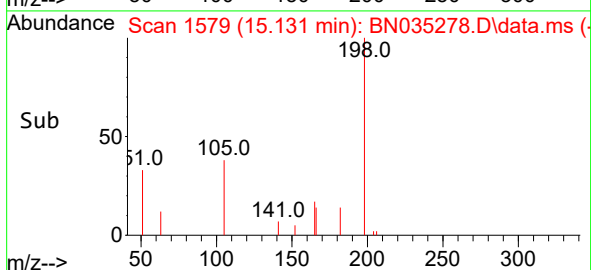
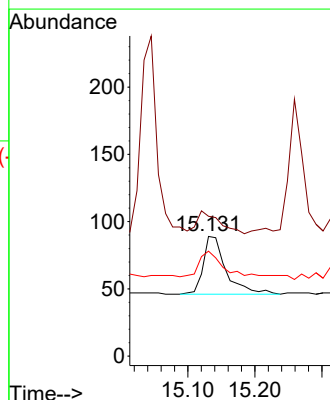
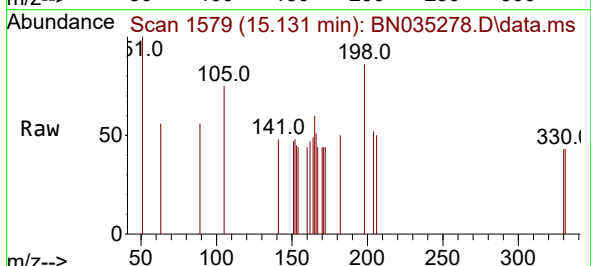
Tgt Ion:198 Resp: 102

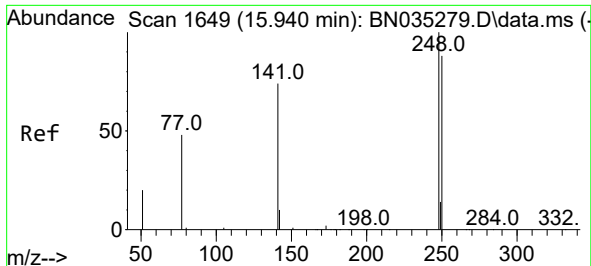
Ion Ratio Lower Upper

198 100

51 116.9 53.6 80.4#

105 87.6 47.4 71.2#

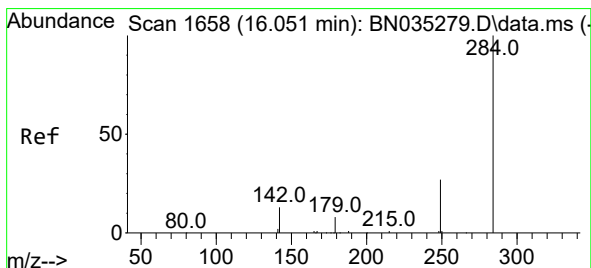
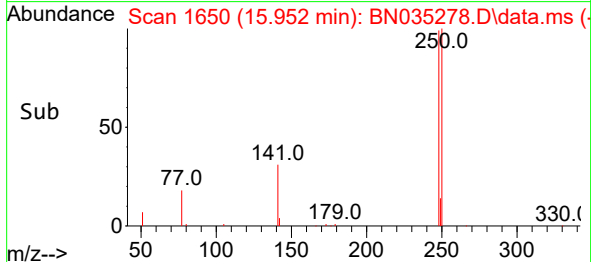
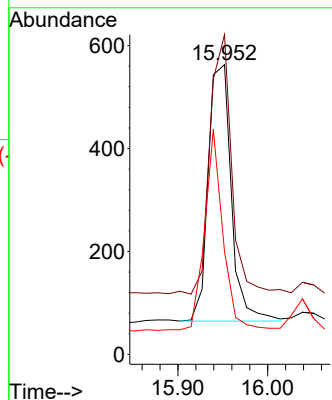
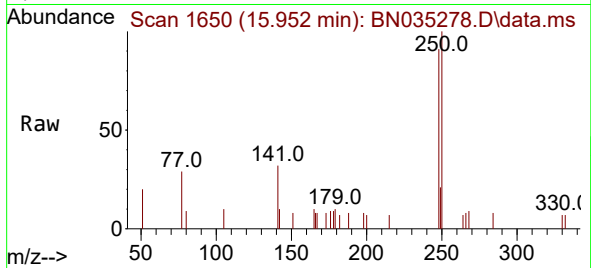




#21  
4-Bromophenyl-phenylether  
Concen: 0.186 ng  
RT: 15.952 min Scan# 1650  
Delta R.T. 0.012 min  
Lab File: BN035278.D  
Acq: 25 Nov 2024 10:52

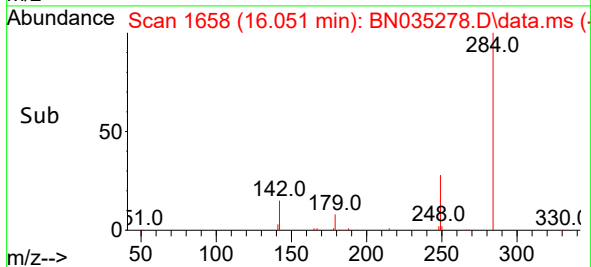
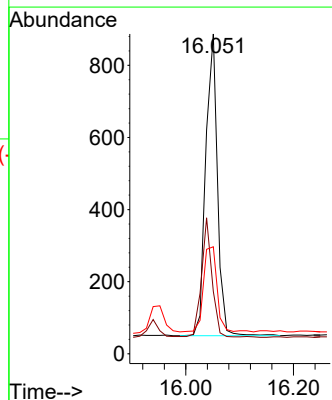
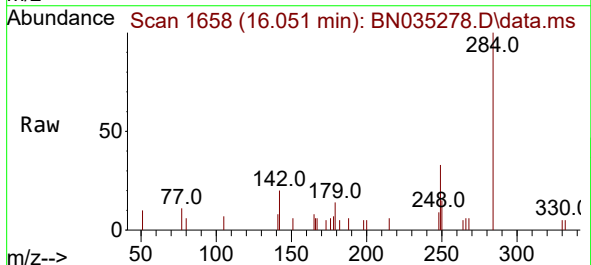
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC0.2

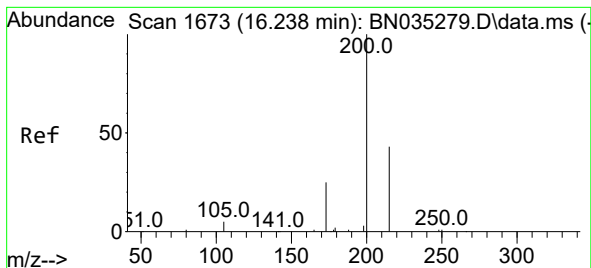
Tgt Ion:248 Resp: 888  
Ion Ratio Lower Upper  
248 100  
250 110.3 74.8 112.2  
141 35.5 59.0 88.4#



#22  
Hexachlorobenzene  
Concen: 0.185 ng  
RT: 16.051 min Scan# 1658  
Delta R.T. -0.000 min  
Lab File: BN035278.D  
Acq: 25 Nov 2024 10:52

Tgt Ion:284 Resp: 1264  
Ion Ratio Lower Upper  
284 100  
142 35.2 28.7 43.1  
249 33.8 25.4 38.0





#23

Atrazine

Concen: 0.177 ng

RT: 16.237 min Scan# 1673

Delta R.T. -0.000 min

Lab File: BN035278.D

Acq: 25 Nov 2024 10:52

Instrument :

BNA\_N

ClientSampleId :

SSTDICC0.2

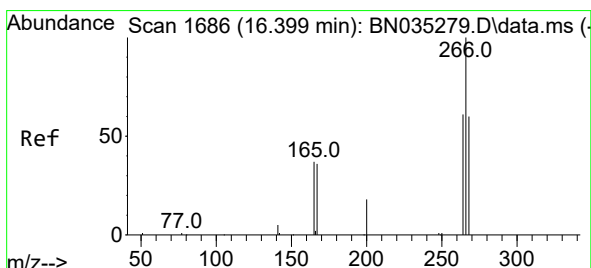
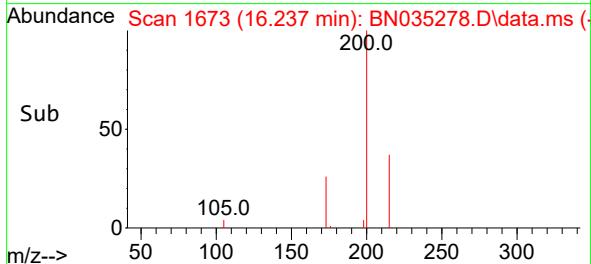
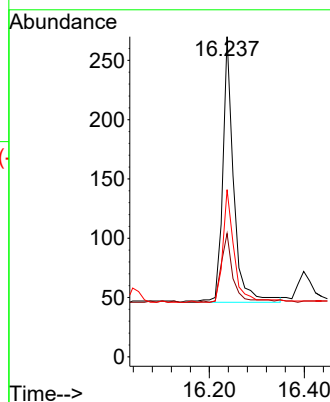
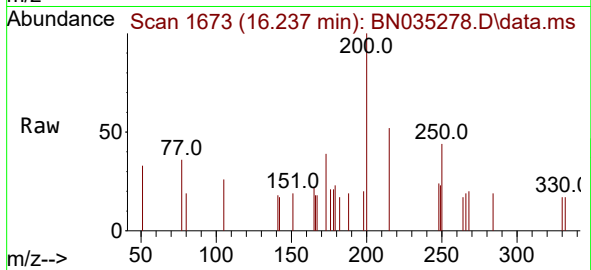
Tgt Ion:200 Resp: 357

Ion Ratio Lower Upper

200 100

173 38.5 25.8 38.8

215 52.2 38.6 58.0



#24

Pentachlorophenol

Concen: 0.154 ng

RT: 16.399 min Scan# 1686

Delta R.T. -0.000 min

Lab File: BN035278.D

Acq: 25 Nov 2024 10:52

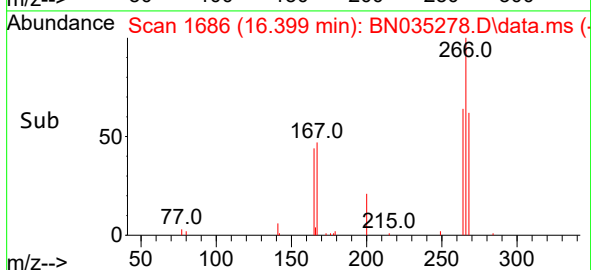
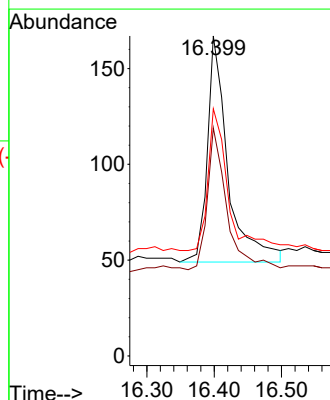
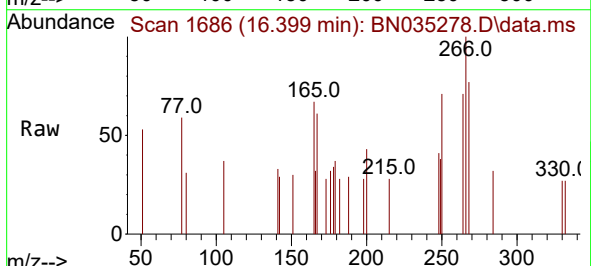
Tgt Ion:266 Resp: 252

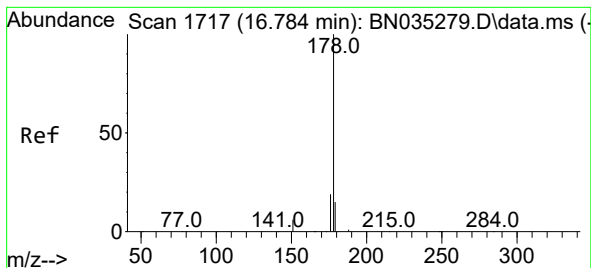
Ion Ratio Lower Upper

266 100

264 59.1 49.3 73.9

268 63.1 48.6 73.0





#25

Phenanthrene

Concen: 0.180 ng

RT: 16.783 min Scan# 1717

Delta R.T. -0.000 min

Lab File: BN035278.D

Acq: 25 Nov 2024 10:52

Instrument :

BNA\_N

ClientSampleId :

SSTDICC0.2

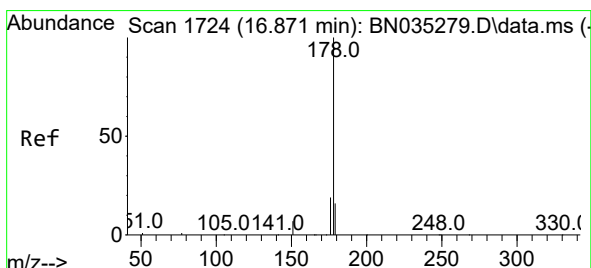
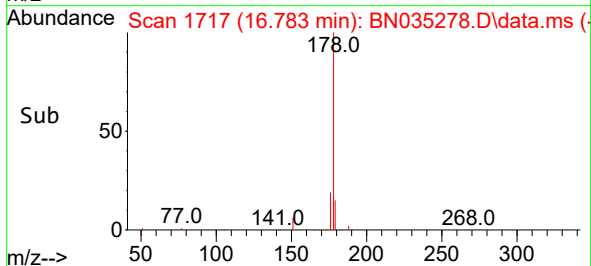
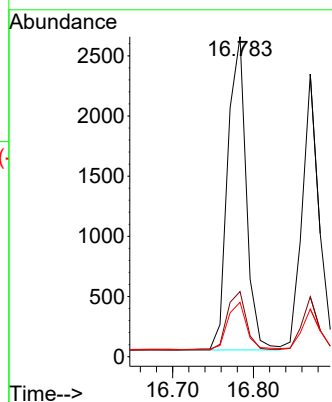
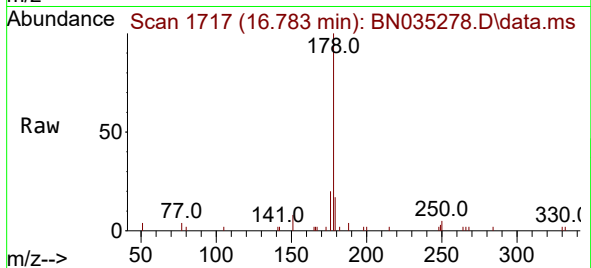
Tgt Ion:178 Resp: 4155

Ion Ratio Lower Upper

178 100

176 19.2 15.4 23.0

179 15.5 12.6 18.8



#26

Anthracene

Concen: 0.170 ng

RT: 16.870 min Scan# 1724

Delta R.T. -0.000 min

Lab File: BN035278.D

Acq: 25 Nov 2024 10:52

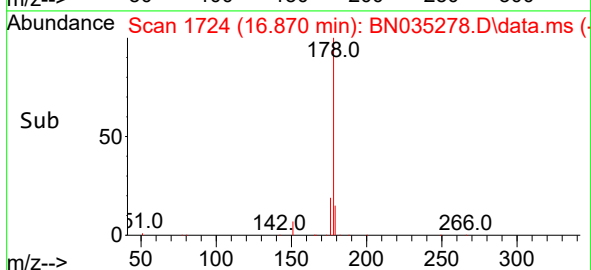
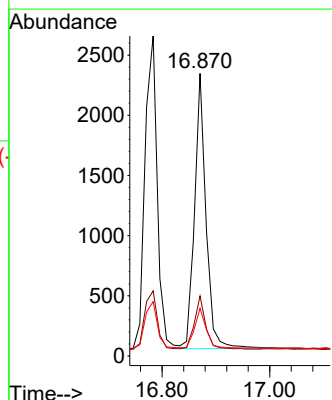
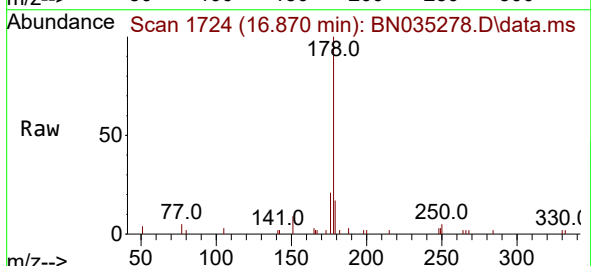
Tgt Ion:178 Resp: 3384

Ion Ratio Lower Upper

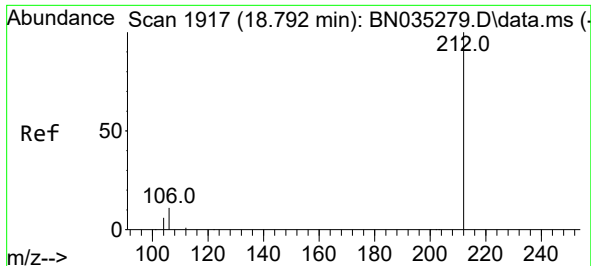
178 100

176 18.9 15.0 22.4

179 15.0 12.4 18.6



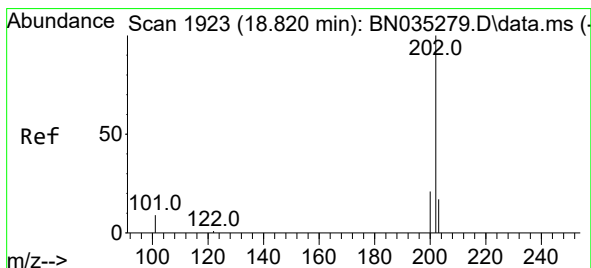
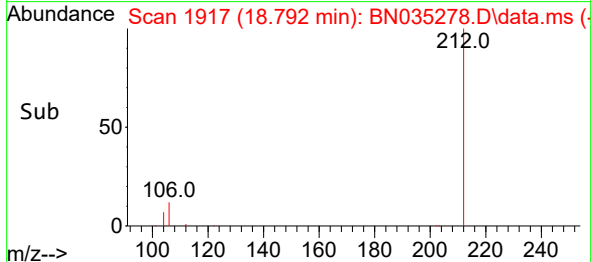
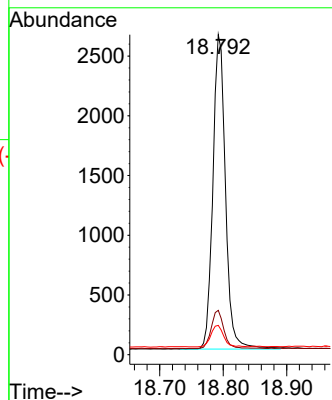
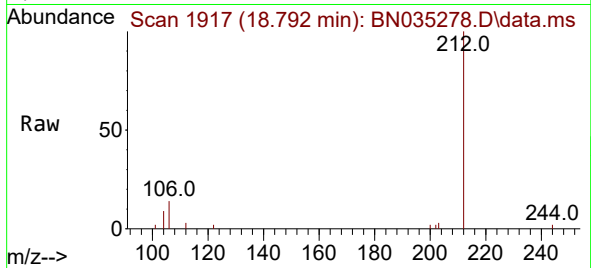




#27  
Fluoranthene-d10  
Concen: 0.180 ng  
RT: 18.792 min Scan# 1917  
Delta R.T. -0.000 min  
Lab File: BN035278.D  
Acq: 25 Nov 2024 10:52

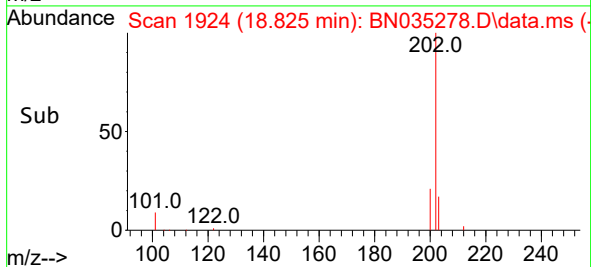
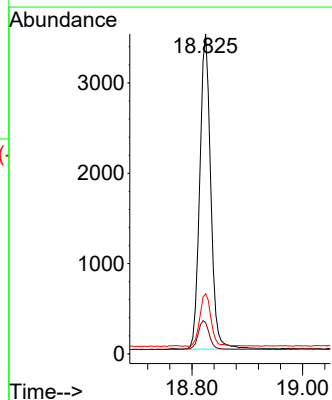
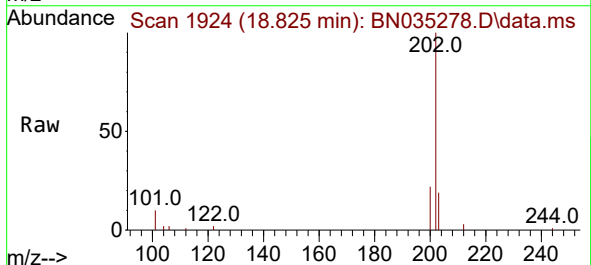
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC0.2

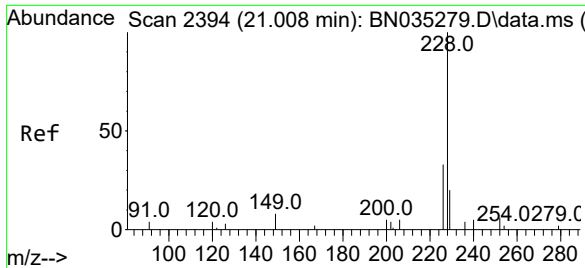
Tgt Ion:212 Resp: 3625  
Ion Ratio Lower Upper  
212 100  
106 12.3 9.8 14.8  
104 6.9 5.6 8.4



#28  
Fluoranthene  
Concen: 0.165 ng  
RT: 18.825 min Scan# 1924  
Delta R.T. 0.005 min  
Lab File: BN035278.D  
Acq: 25 Nov 2024 10:52

Tgt Ion:202 Resp: 4828  
Ion Ratio Lower Upper  
202 100  
101 9.2 7.6 11.4  
203 17.3 13.8 20.8





#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.008 min Scan# 21

Delta R.T. -0.000 min

Lab File: BN035278.D

Acq: 25 Nov 2024 10:52

Instrument :

BNA\_N

ClientSampleId :

SSTDICC0.2

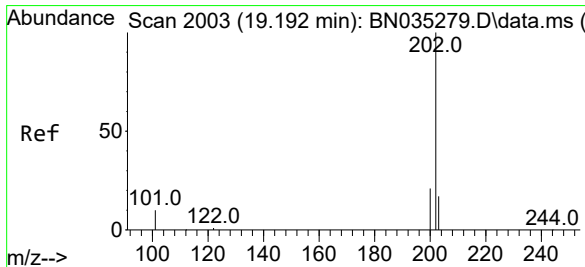
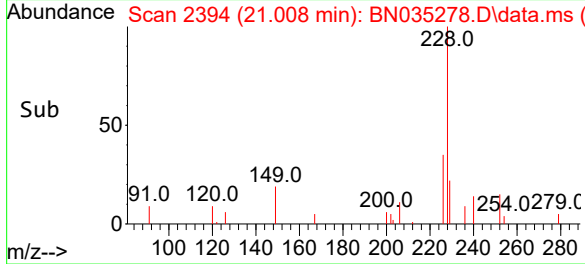
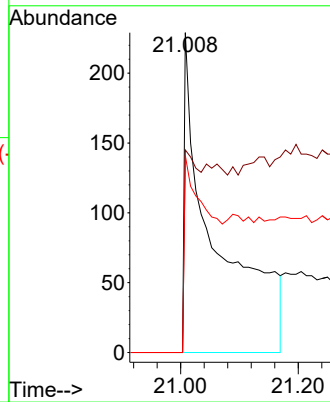
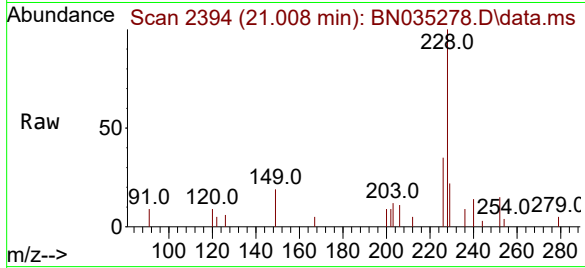
Tgt Ion:240 Resp: 797

Ion Ratio Lower Upper

240 100

120 63.3 54.9 82.3

236 61.6 54.0 81.0



#30

Pyrene

Concen: 0.162 ng

RT: 19.192 min Scan# 2003

Delta R.T. -0.000 min

Lab File: BN035278.D

Acq: 25 Nov 2024 10:52

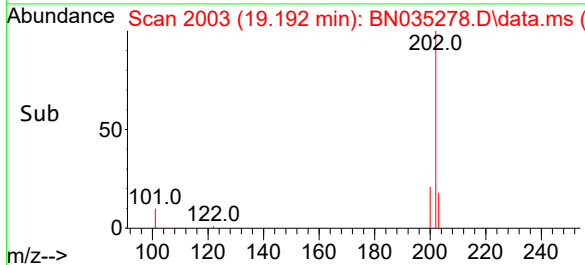
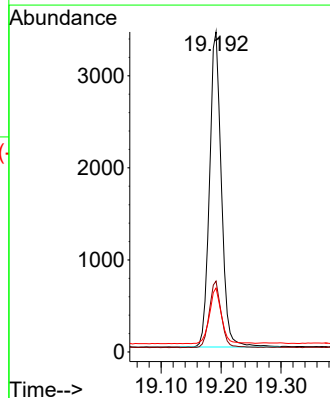
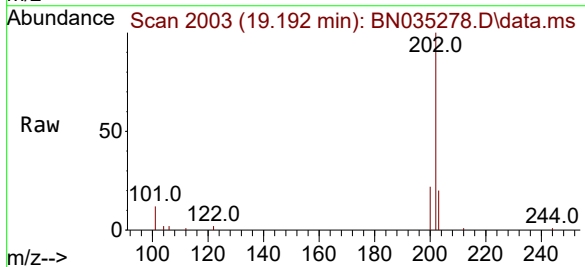
Tgt Ion:202 Resp: 4697

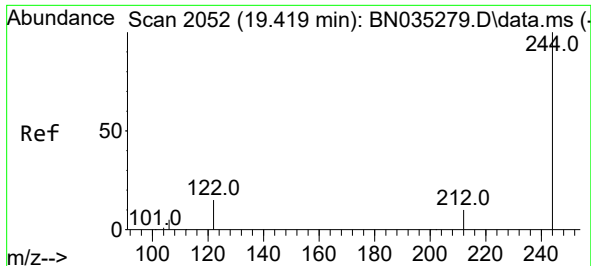
Ion Ratio Lower Upper

202 100

200 21.2 16.8 25.2

203 17.7 14.4 21.6

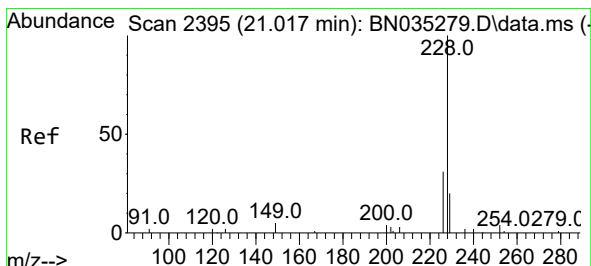
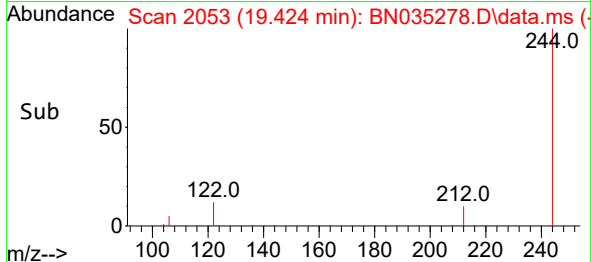
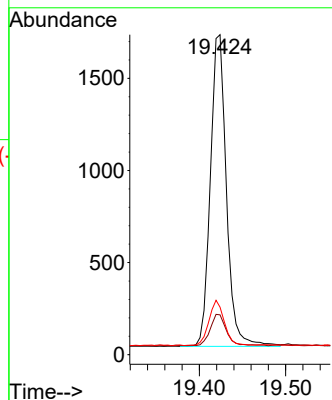
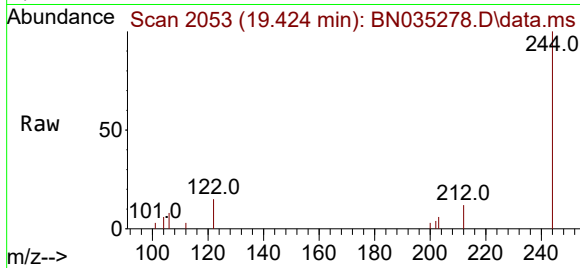




#31  
Terphenyl-d14  
Concen: 0.149 ng  
RT: 19.424 min Scan# 2052  
Delta R.T. 0.005 min  
Lab File: BN035278.D  
Acq: 25 Nov 2024 10:52

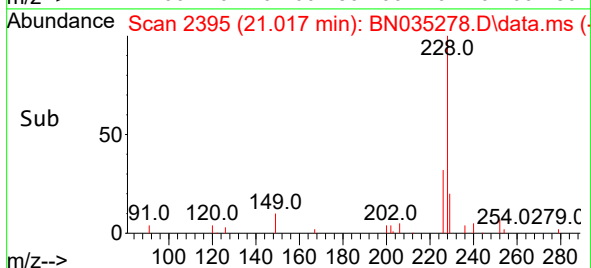
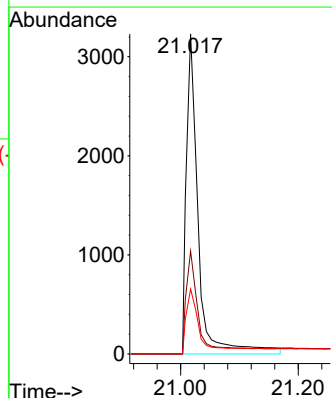
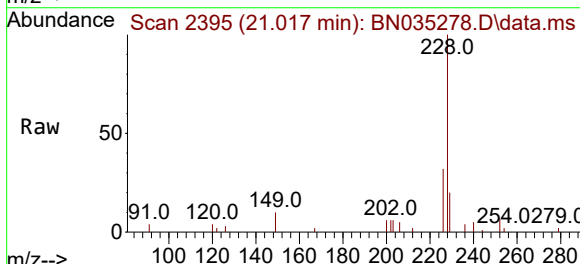
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC0.2

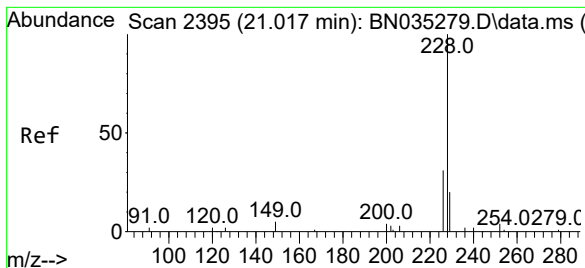
Tgt Ion:244 Resp: 2197  
Ion Ratio Lower Upper  
244 100  
212 12.4 9.4 14.0  
122 14.9 13.0 19.4



#32  
Benzo(a)anthracene  
Concen: 0.161 ng  
RT: 21.017 min Scan# 2395  
Delta R.T. 0.000 min  
Lab File: BN035278.D  
Acq: 25 Nov 2024 10:52

Tgt Ion:228 Resp: 4459  
Ion Ratio Lower Upper  
228 100  
226 32.1 24.7 37.1  
229 20.3 16.2 24.2





#33

Chrysene

Concen: 0.161 ng

RT: 21.017 min Scan# 21

Delta R.T. -0.000 min

Lab File: BN035278.D

Acq: 25 Nov 2024 10:52

Instrument :

BNA\_N

ClientSampleId :

SSTDICC0.2

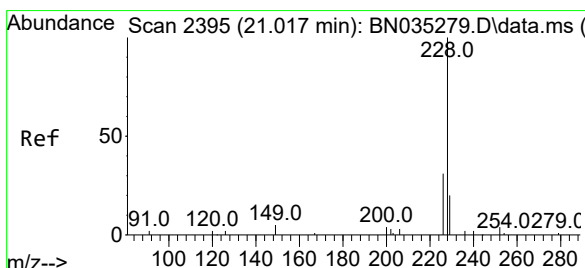
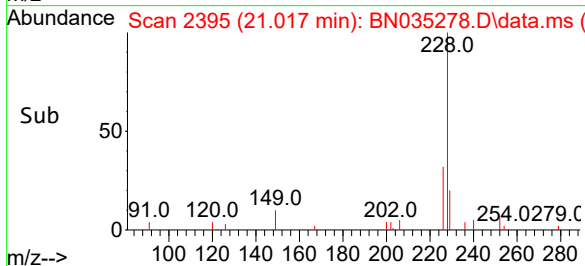
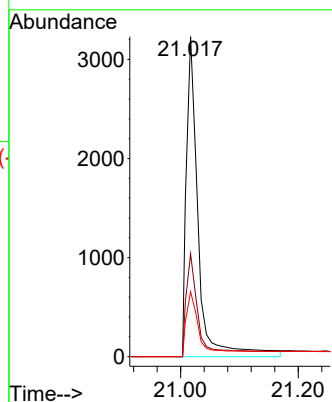
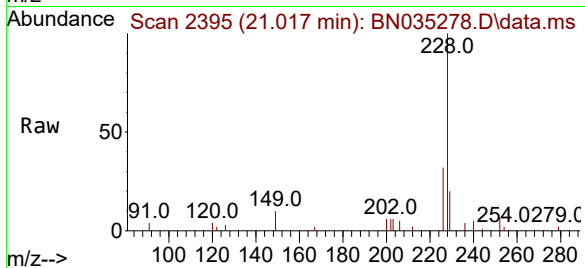
Tgt Ion:228 Resp: 4459

Ion Ratio Lower Upper

228 100

226 32.1 24.7 37.1

229 20.3 16.2 24.2



#34

Bis(2-ethylhexyl)phthalate

Concen: 0.104 ng

RT: 21.017 min Scan# 2395

Delta R.T. 0.000 min

Lab File: BN035278.D

Acq: 25 Nov 2024 10:52

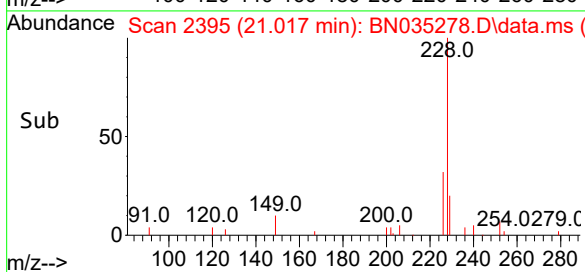
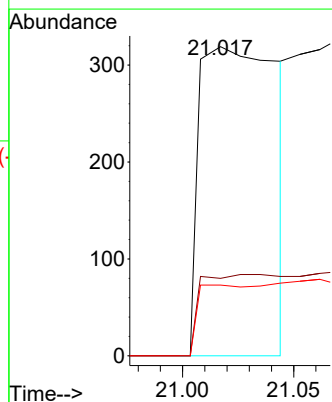
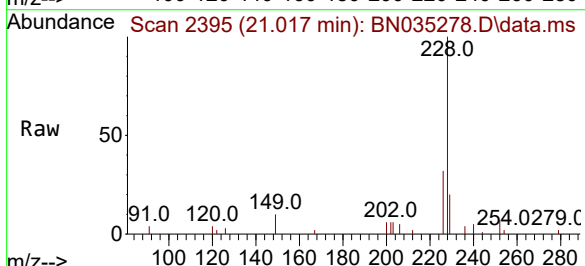
Tgt Ion:149 Resp: 696

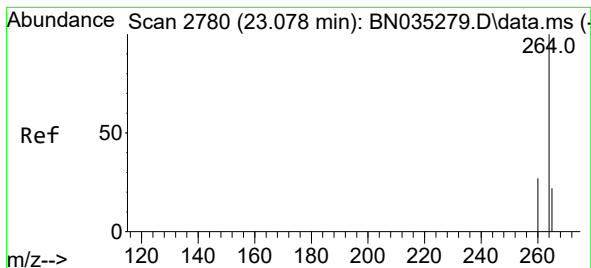
Ion Ratio Lower Upper

149 100

167 26.7 0.0 0.0#

279 12.8 13.0 19.6#





#35

Perylene-d12

Concen: 0.400 ng

RT: 23.084 min Scan# 21

Delta R.T. 0.006 min

Lab File: BN035278.D

Acq: 25 Nov 2024 10:52

Instrument :

BNA\_N

ClientSampleId :

SSTDICC0.2

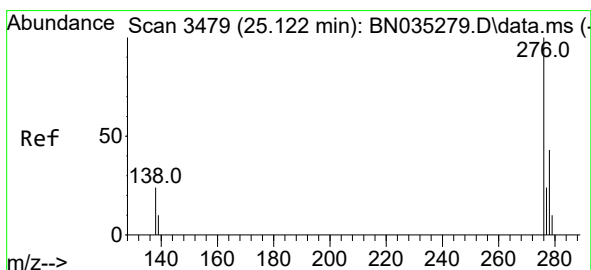
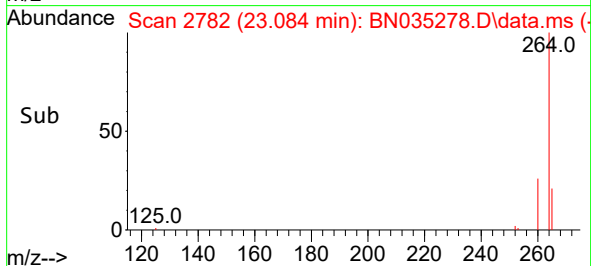
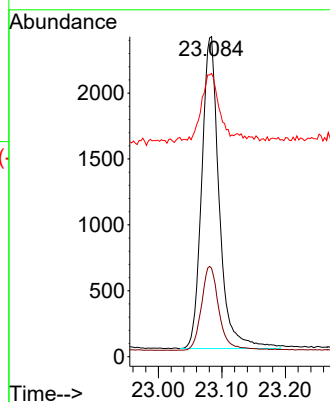
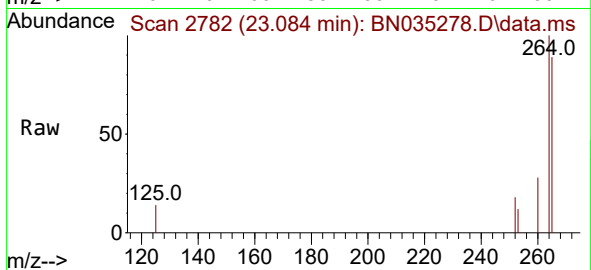
Tgt Ion:264 Resp: 4527

Ion Ratio Lower Upper

264 100

260 27.6 22.3 33.5

265 88.5 68.6 103.0



#36

Indeno(1,2,3-cd)pyrene

Concen: 0.172 ng

RT: 25.121 min Scan# 3479

Delta R.T. -0.000 min

Lab File: BN035278.D

Acq: 25 Nov 2024 10:52

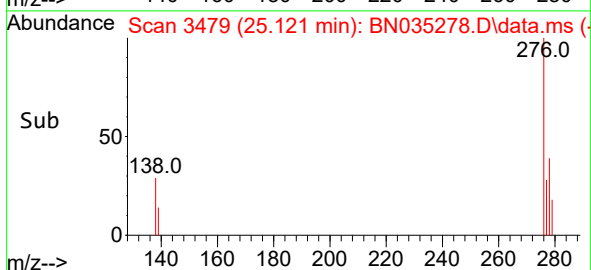
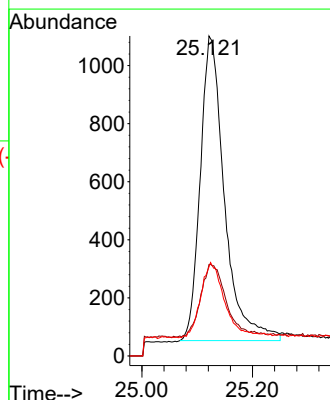
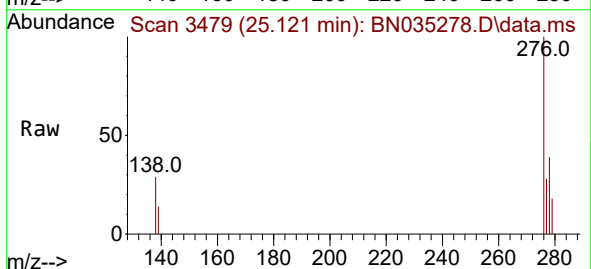
Tgt Ion:276 Resp: 3191

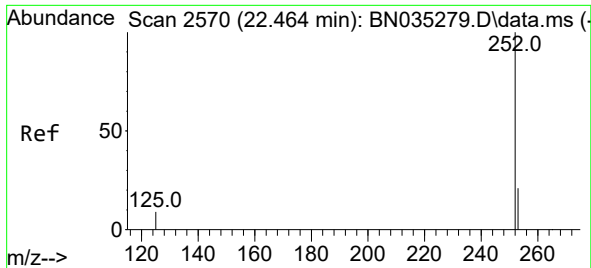
Ion Ratio Lower Upper

276 100

138 23.2 18.8 28.2

277 23.0 18.2 27.4

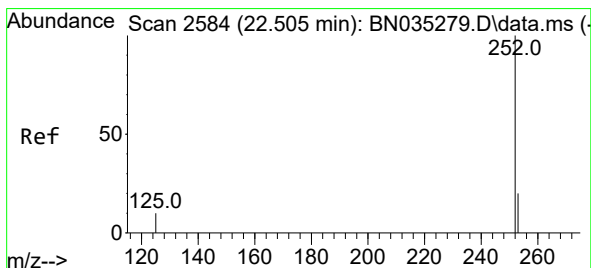
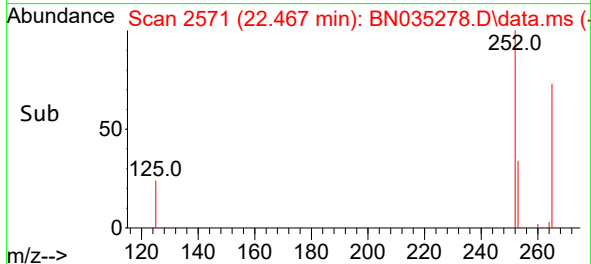
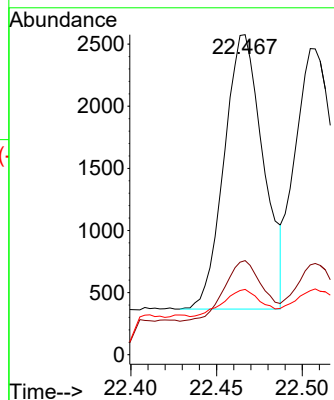
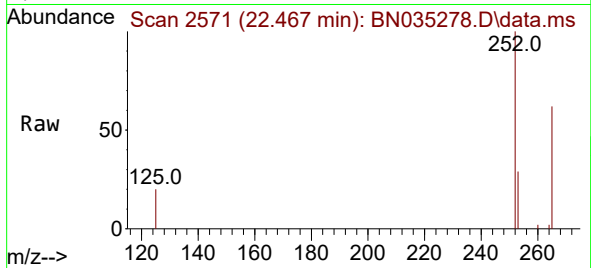




#37  
Benzo(b)fluoranthene  
Concen: 0.179 ng  
RT: 22.467 min Scan# 2571  
Delta R.T. 0.003 min  
Lab File: BN035278.D  
Acq: 25 Nov 2024 10:52

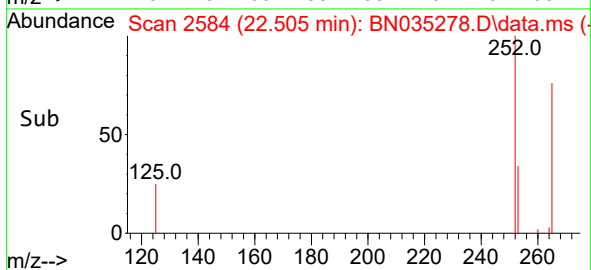
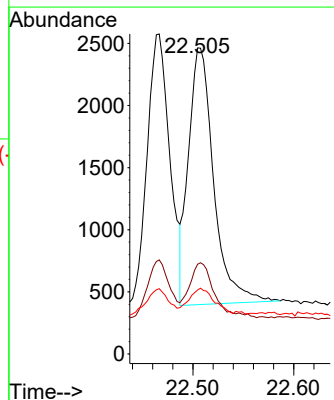
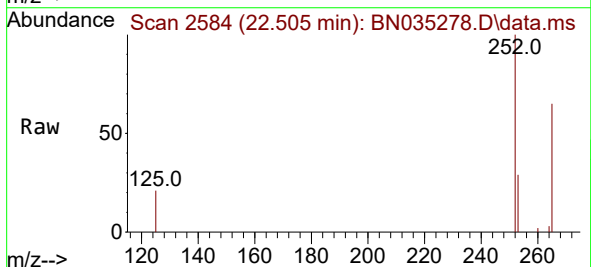
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC0.2

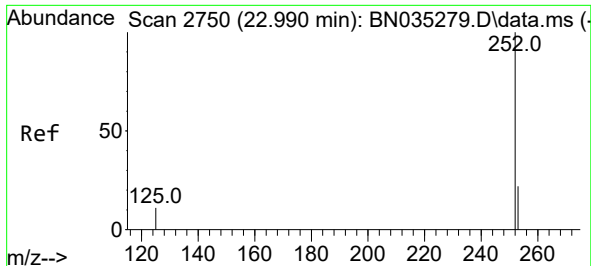
Tgt Ion:252 Resp: 3513  
Ion Ratio Lower Upper  
252 100  
253 29.4 20.2 30.2  
125 20.4 12.0 18.0#



#38  
Benzo(k)fluoranthene  
Concen: 0.172 ng  
RT: 22.505 min Scan# 2584  
Delta R.T. -0.000 min  
Lab File: BN035278.D  
Acq: 25 Nov 2024 10:52

Tgt Ion:252 Resp: 3588  
Ion Ratio Lower Upper  
252 100  
253 29.3 20.1 30.1  
125 20.9 12.7 19.1#





#39

Benzo(a)pyrene

Concen: 0.178 ng

RT: 22.990 min Scan# 21

Delta R.T. -0.000 min

Lab File: BN035278.D

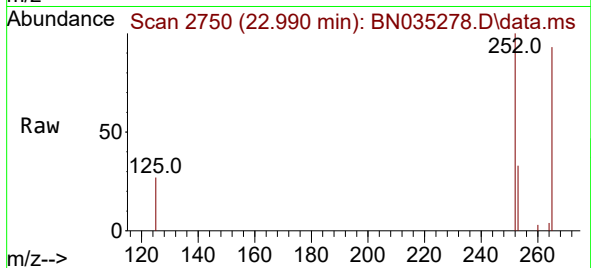
Acq: 25 Nov 2024 10:52

Instrument :

BNA\_N

ClientSampleId :

SSTDICC0.2



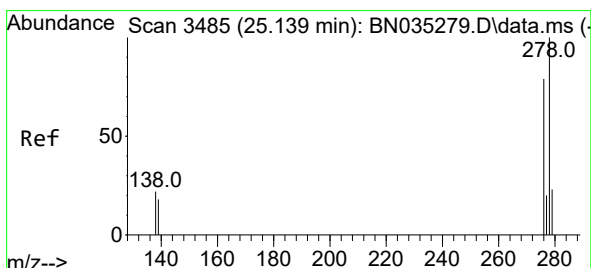
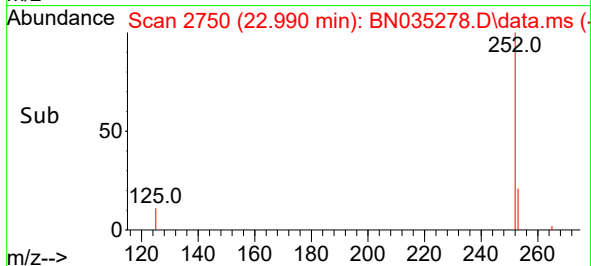
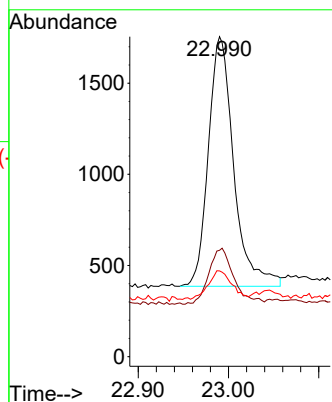
Tgt Ion:252 Resp: 2673

Ion Ratio Lower Upper

252 100

253 33.2 22.3 33.5

125 26.8 15.3 22.9#



#40

Dibenzo(a,h)anthracene

Concen: 0.166 ng

RT: 25.142 min Scan# 3486

Delta R.T. 0.003 min

Lab File: BN035278.D

Acq: 25 Nov 2024 10:52

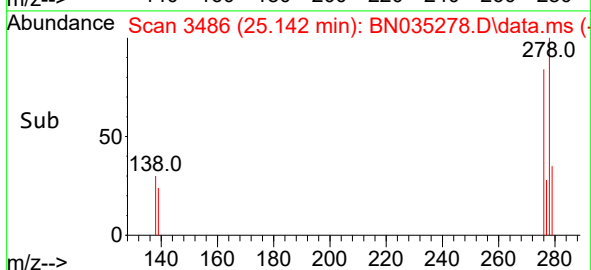
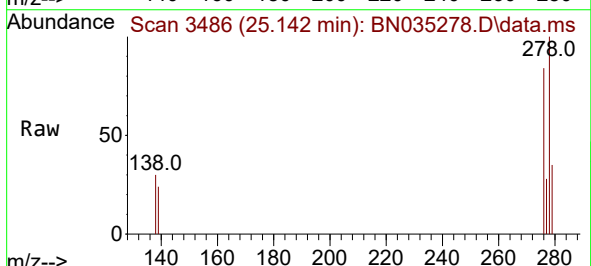
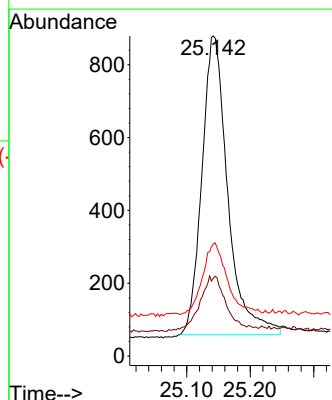
Tgt Ion:278 Resp: 2328

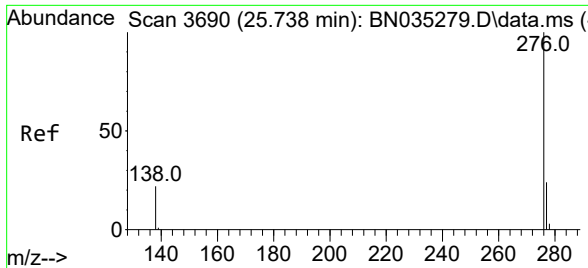
Ion Ratio Lower Upper

278 100

139 24.3 17.0 25.6

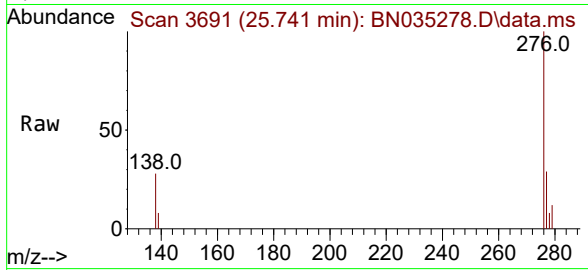
279 35.0 23.0 34.4#



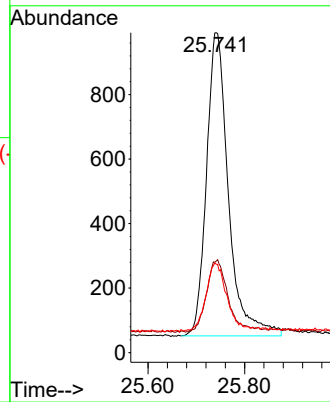
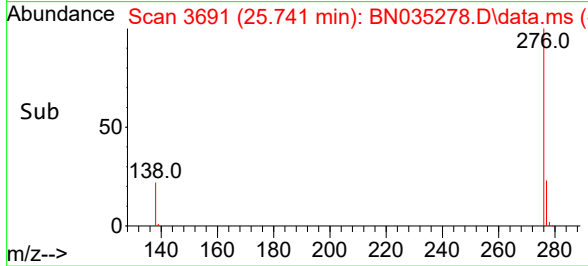


#41  
Benzo(g,h,i)perylene  
Concen: 0.183 ng  
RT: 25.741 min Scan# 30  
Delta R.T. 0.003 min  
Lab File: BN035278.D  
Acq: 25 Nov 2024 10:52

Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC0.2



|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 276   | Resp: | 2967  |
| Ion      | Ratio | Lower | Upper |
| 276      | 100   |       |       |
| 277      | 28.6  | 21.1  | 31.7  |
| 138      | 27.6  | 19.8  | 29.8  |





Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN112524\  
 Data File : BN035284.D  
 Acq On : 25 Nov 2024 14:29  
 Operator : RC/JU  
 Sample : SSTDICV0.4  
 Misc :  
 ALS Vial : 59 Sample Multiplier: 1

Instrument :  
 BNA\_N  
 ClientSampleId :  
 ICVBN112524

Quant Time: Nov 25 22:35:44 2024  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\8270-SIM-BN112524.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Mon Nov 25 14:32:52 2024  
 Response via : Initial Calibration

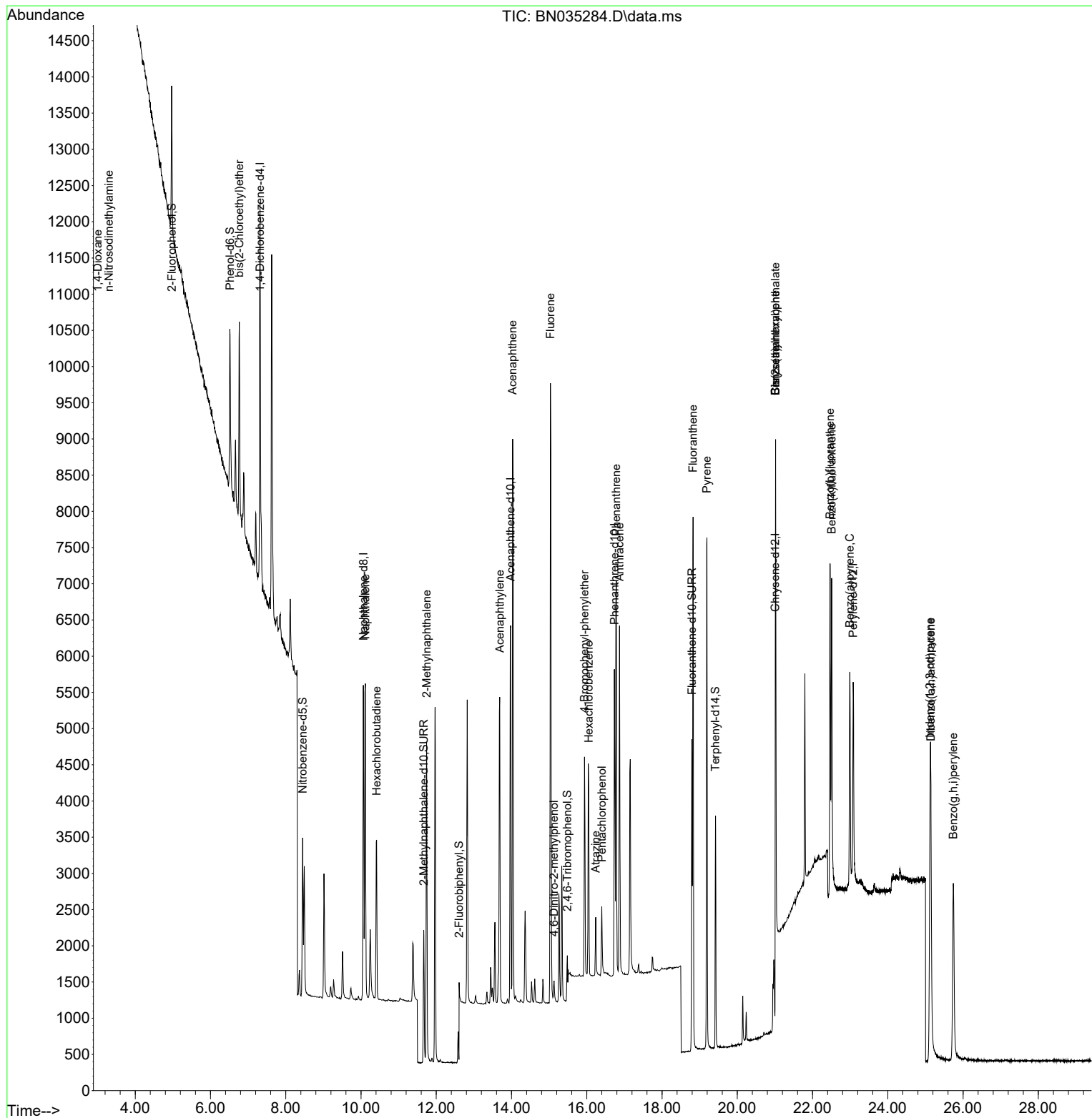
| Compound                      | R.T.   | QIon | Response | Conc  | Units | Dev(Min) |
|-------------------------------|--------|------|----------|-------|-------|----------|
| Internal Standards            |        |      |          |       |       |          |
| 1) 1,4-Dichlorobenzene-d4     | 7.315  | 152  | 2519     | 0.400 | ng    | 0.00     |
| 7) Naphthalene-d8             | 10.063 | 136  | 5593     | 0.400 | ng    | 0.00     |
| 13) Acenaphthene-d10          | 13.976 | 164  | 2659     | 0.400 | ng    | # 0.00   |
| 19) Phenanthrene-d10          | 16.734 | 188  | 5748     | 0.400 | ng    | 0.00     |
| 29) Chrysene-d12              | 21.008 | 240  | 611      | 0.400 | ng    | 0.00     |
| 35) Perylene-d12              | 23.081 | 264  | 3470     | 0.400 | ng    | # 0.00   |
| System Monitoring Compounds   |        |      |          |       |       |          |
| 4) 2-Fluorophenol             | 4.968  | 112  | 1712     | 0.360 | ng    | 0.00     |
| 5) Phenol-d6                  | 6.521  | 99   | 2314     | 0.348 | ng    | 0.00     |
| 8) Nitrobenzene-d5            | 8.450  | 82   | 2129     | 0.469 | ng    | 0.00     |
| 11) 2-Methylnaphthalene-d10   | 11.667 | 152  | 2635     | 0.337 | ng    | 0.00     |
| 14) 2,4,6-Tribromophenol      | 15.484 | 330  | 546      | 0.402 | ng    | 0.00     |
| 15) 2-Fluorobiphenyl          | 12.608 | 172  | 683      | 0.465 | ng    | 0.00     |
| 27) Fluoranthene-d10          | 18.792 | 212  | 4874     | 0.317 | ng    | 0.00     |
| 31) Terphenyl-d14             | 19.419 | 244  | 3187     | 0.282 | ng    | 0.00     |
| Target Compounds              |        |      |          |       |       |          |
| 2) 1,4-Dioxane                | 3.003  | 88   | 689      | 0.381 | ng    | # 83     |
| 3) n-Nitrosodimethylamine     | 3.299  | 42   | 809      | 0.431 | ng    | # 76     |
| 6) bis(2-Chloroethyl)ether    | 6.766  | 93   | 2132     | 0.381 | ng    | 99       |
| 9) Naphthalene                | 10.116 | 128  | 5975     | 0.385 | ng    | 99       |
| 10) Hexachlorobutadiene       | 10.415 | 225  | 1929     | 0.442 | ng    | # 100    |
| 12) 2-Methylnaphthalene       | 11.742 | 142  | 3297     | 0.325 | ng    | 98       |
| 16) Acenaphthylene            | 13.688 | 152  | 5175     | 0.387 | ng    | 99       |
| 17) Acenaphthene              | 14.030 | 154  | 3227     | 0.383 | ng    | # 90     |
| 18) Fluorene                  | 15.035 | 166  | 4194     | 0.355 | ng    | 97       |
| 20) 4,6-Dinitro-2-methylph... | 15.131 | 198  | 239      | 0.477 | ng    | 98       |
| 21) 4-Bromophenyl-phenylether | 15.940 | 248  | 1328     | 0.364 | ng    | 92       |
| 22) Hexachlorobenzene         | 16.051 | 284  | 2564     | 0.491 | ng    | 98       |
| 23) Atrazine                  | 16.237 | 200  | 643      | 0.419 | ng    | 98       |
| 24) Pentachlorophenol         | 16.399 | 266  | 510      | 0.407 | ng    | 95       |
| 25) Phenanthrene              | 16.784 | 178  | 6385     | 0.362 | ng    | 100      |
| 26) Anthracene                | 16.870 | 178  | 4852     | 0.320 | ng    | 99       |
| 28) Fluoranthene              | 18.825 | 202  | 6686     | 0.300 | ng    | 99       |
| 30) Pyrene                    | 19.192 | 202  | 6525     | 0.294 | ng    | 100      |
| 32) Benzo(a)anthracene        | 21.017 | 228  | 5799     | 0.273 | ng    | 100      |
| 33) Chrysene                  | 21.017 | 228  | 5799     | 0.273 | ng    | 100      |
| 34) Bis(2-ethylhexyl)phtha... | 21.017 | 149  | 520      | 0.041 | ng    | # 98     |
| 36) Indeno(1,2,3-cd)pyrene    | 25.121 | 276  | 5652     | 0.398 | ng    | 99       |
| 37) Benzo(b)fluoranthene      | 22.464 | 252  | 5358     | 0.355 | ng    | 97       |
| 38) Benzo(k)fluoranthene      | 22.508 | 252  | 5559     | 0.348 | ng    | 97       |
| 39) Benzo(a)pyrene            | 22.990 | 252  | 4167     | 0.361 | ng    | 97       |
| 40) Dibenzo(a,h)anthracene    | 25.145 | 278  | 4182     | 0.389 | ng    | 98       |
| 41) Benzo(g,h,i)perylene      | 25.738 | 276  | 5121     | 0.412 | ng    | 99       |

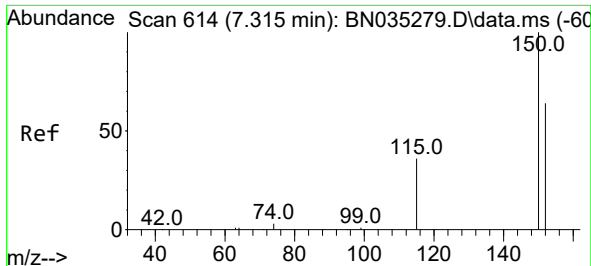
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Data File : BN035284.D  
Acq On : 25 Nov 2024 14:29  
Operator : RC/JU  
Sample : SSTDICV0.4  
Misc :  
ALS Vial : 59 Sample Multiplier: 1

Instrument :  
BNA\_N  
ClientSampleId :  
ICVBN112524

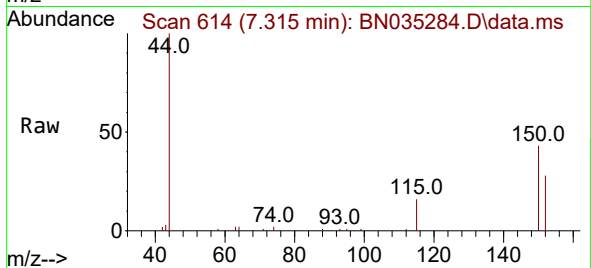
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QLast Update : Mon Nov 25 14:32:52 2024  
Response via : Initial Calibration



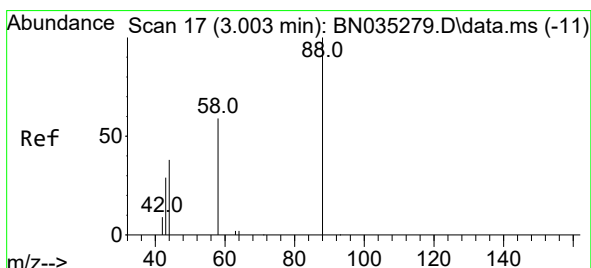
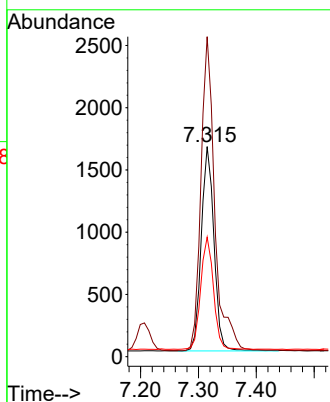
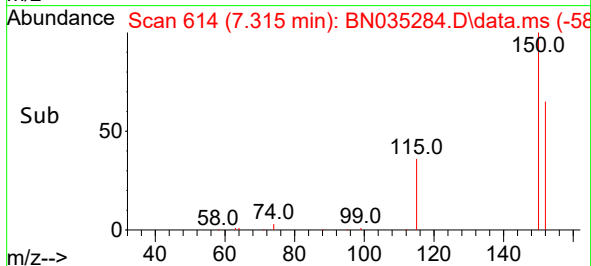


#1  
 1,4-Dichlorobenzene-d4  
 Concen: 0.400 ng  
 RT: 7.315 min Scan# 61  
 Delta R.T. -0.000 min  
 Lab File: BN035284.D  
 Acq: 25 Nov 2024 14:29

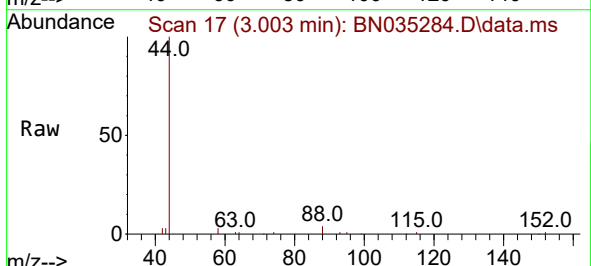
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 BNA\_N  
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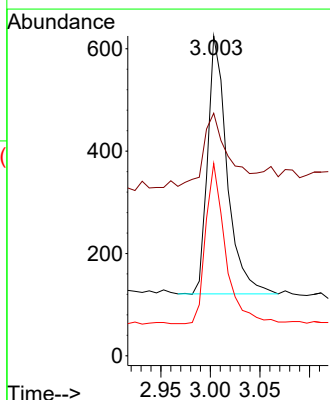
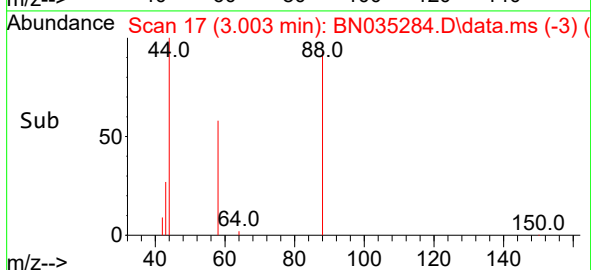
Tgt Ion:152 Resp: 2519  
 Ion Ratio Lower Upper  
 152 100  
 150 152.3 124.5 186.7  
 115 56.9 47.8 71.8

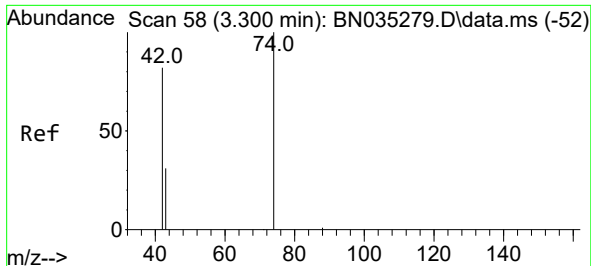


#2  
 1,4-Dioxane  
 Concen: 0.381 ng  
 RT: 3.003 min Scan# 17  
 Delta R.T. 0.000 min  
 Lab File: BN035284.D  
 Acq: 25 Nov 2024 14:29



Tgt Ion: 88 Resp: 689  
 Ion Ratio Lower Upper  
 88 100  
 43 38.3 48.1 72.1#  
 58 62.8 46.9 70.3

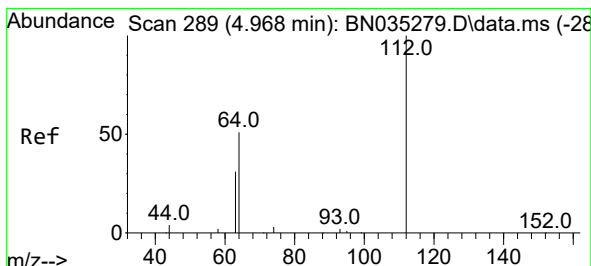
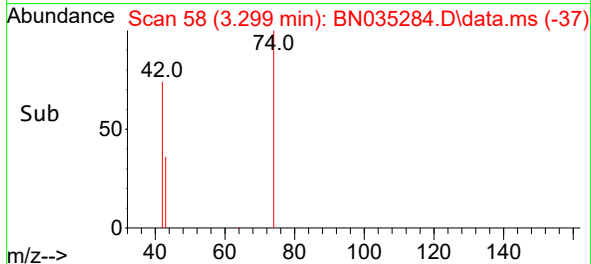
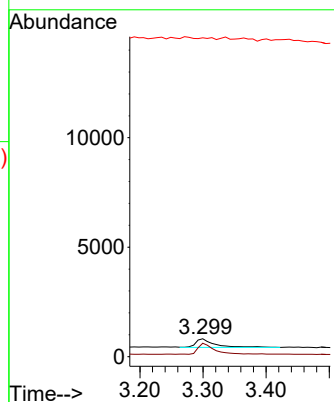
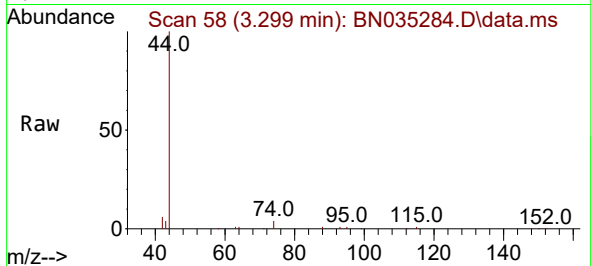




#3  
n-Nitrosodimethylamine  
Concen: 0.431 ng  
RT: 3.299 min Scan# 58  
Delta R.T. -0.001 min  
Lab File: BN035284.D  
Acq: 25 Nov 2024 14:29

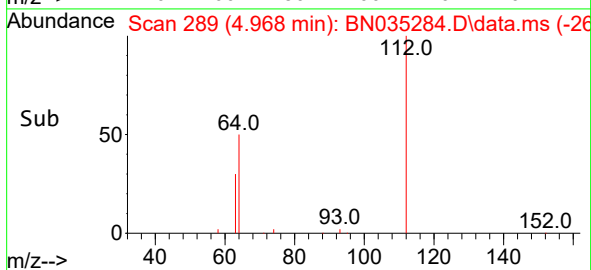
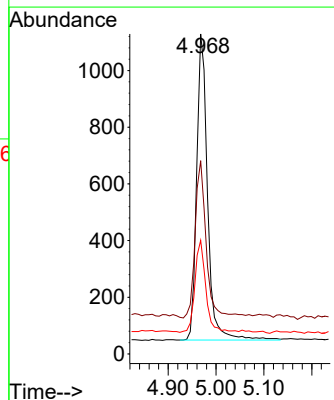
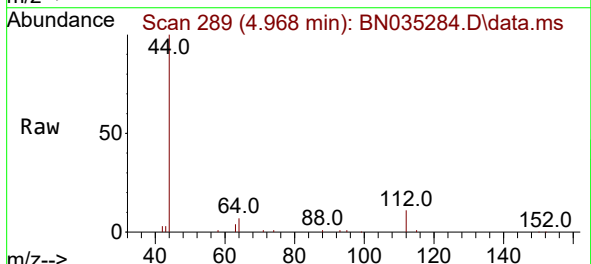
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ClientSampleId :  
ICVBN112524

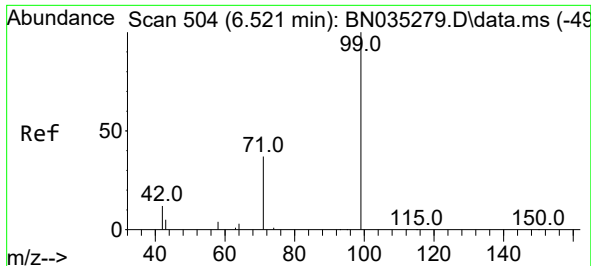
Tgt Ion: 42 Resp: 809  
Ion Ratio Lower Upper  
42 100  
74 116.4 102.7 154.1  
44 0.0 34.1 51.1#



#4  
2-Fluorophenol  
Concen: 0.360 ng  
RT: 4.968 min Scan# 289  
Delta R.T. -0.000 min  
Lab File: BN035284.D  
Acq: 25 Nov 2024 14:29

Tgt Ion: 112 Resp: 1712  
Ion Ratio Lower Upper  
112 100  
64 53.3 40.4 60.6  
63 29.8 23.8 35.8

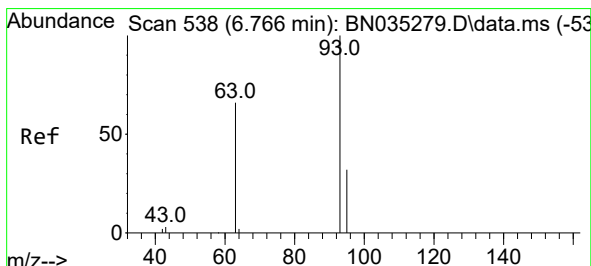
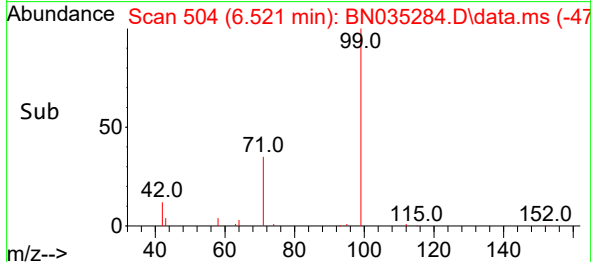
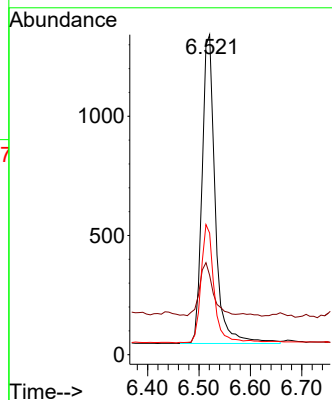
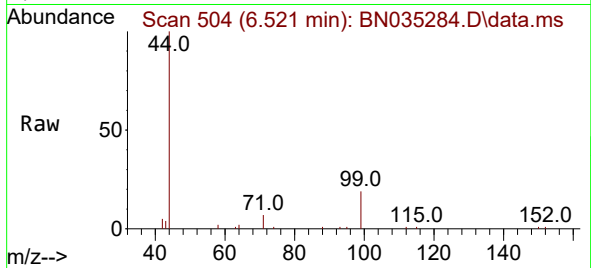




#5  
Phenol-d6  
Concen: 0.348 ng  
RT: 6.521 min Scan# 504  
Delta R.T. -0.000 min  
Lab File: BN035284.D  
Acq: 25 Nov 2024 14:29

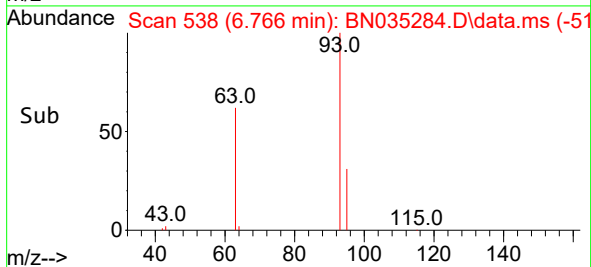
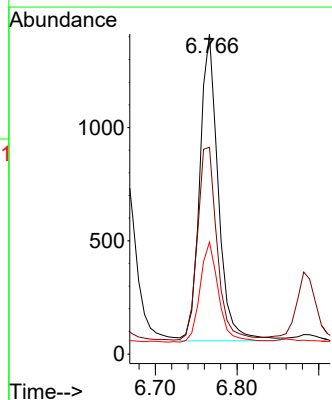
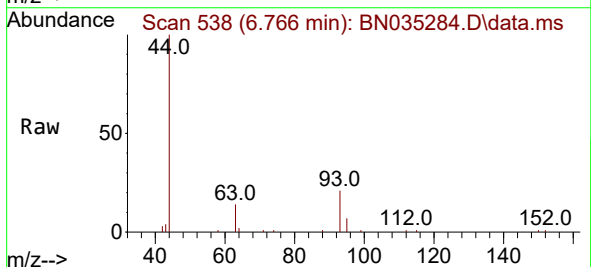
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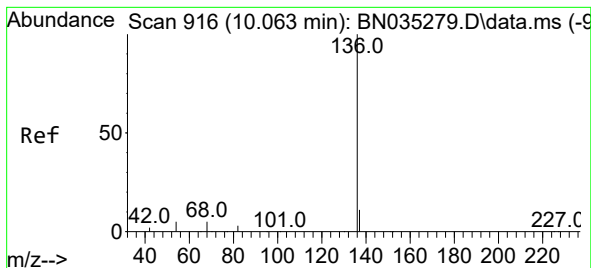
Tgt Ion: 99 Resp: 2314  
Ion Ratio Lower Upper  
99 100  
42 17.3 12.8 19.2  
71 38.1 31.4 47.2



#6  
bis(2-Chloroethyl)ether  
Concen: 0.381 ng  
RT: 6.766 min Scan# 538  
Delta R.T. -0.000 min  
Lab File: BN035284.D  
Acq: 25 Nov 2024 14:29

Tgt Ion: 93 Resp: 2132  
Ion Ratio Lower Upper  
93 100  
63 66.4 52.3 78.5  
95 32.6 25.5 38.3





#7

Naphthalene-d8

Concen: 0.400 ng

RT: 10.063 min Scan# 916

Delta R.T. -0.000 min

Lab File: BN035284.D

Acq: 25 Nov 2024 14:29

Instrument :

BNA\_N

ClientSampleId :

ICVBN112524

Tgt Ion:136 Resp: 5593

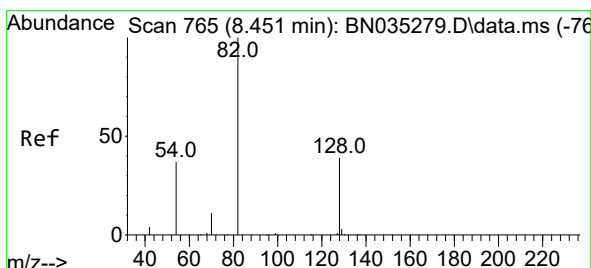
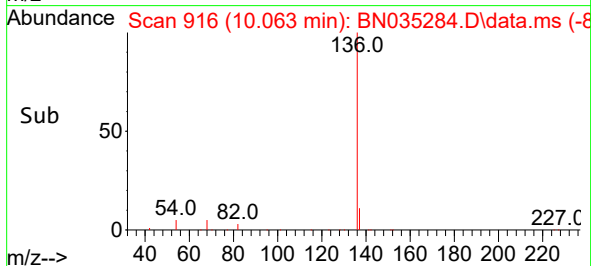
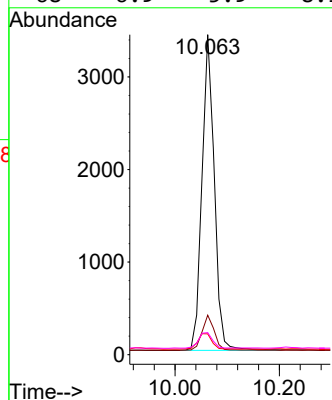
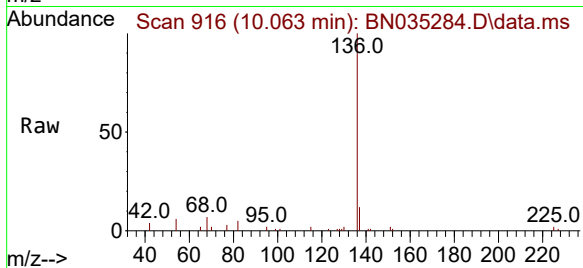
Ion Ratio Lower Upper

136 100

137 12.3 9.7 14.5

54 6.5 5.3 7.9

68 6.9 5.9 8.9



#8

Nitrobenzene-d5

Concen: 0.469 ng

RT: 8.450 min Scan# 765

Delta R.T. -0.000 min

Lab File: BN035284.D

Acq: 25 Nov 2024 14:29

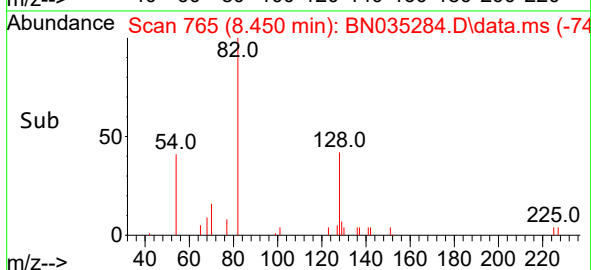
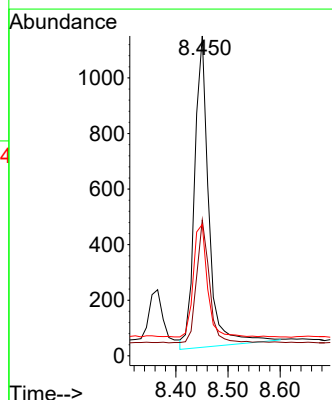
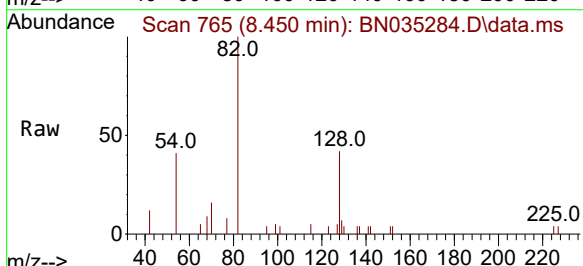
Tgt Ion: 82 Resp: 2129

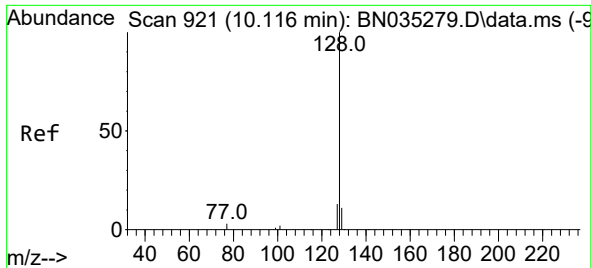
Ion Ratio Lower Upper

82 100

128 42.5 33.0 49.4

54 41.1 33.3 49.9

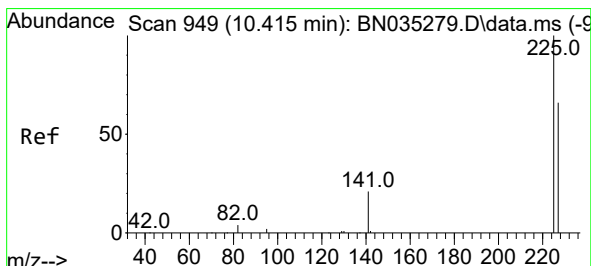
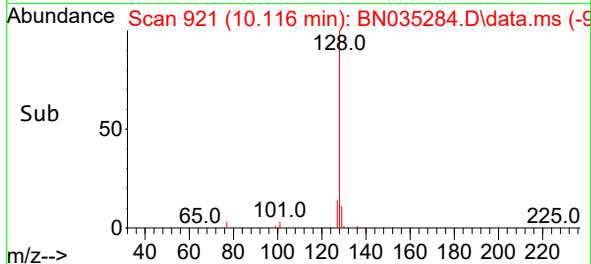
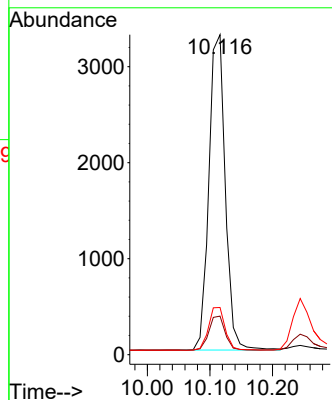
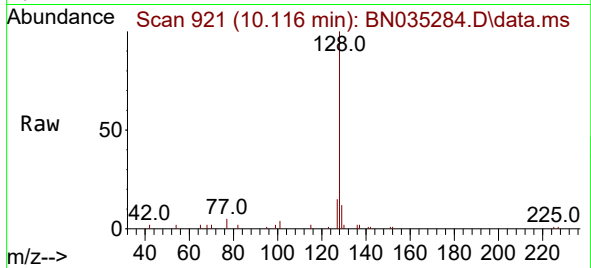




#9  
Naphthalene  
Concen: 0.385 ng  
RT: 10.116 min Scan# 911  
Delta R.T. -0.000 min  
Lab File: BN035284.D  
Acq: 25 Nov 2024 14:29

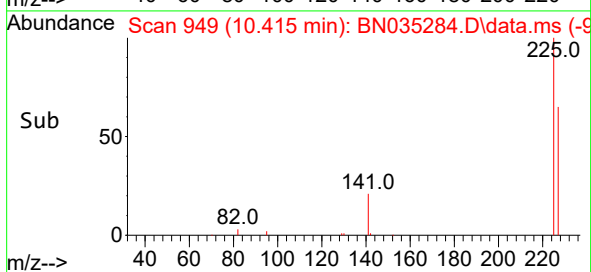
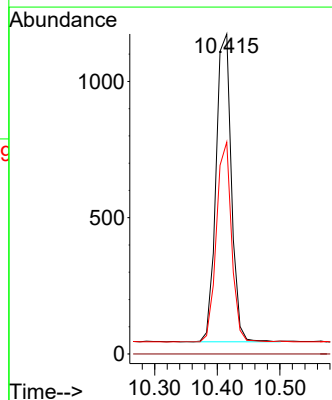
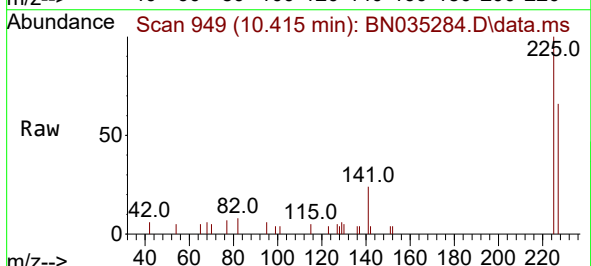
Instrument :  
BNA\_N  
ClientSampleId :  
ICVBN112524

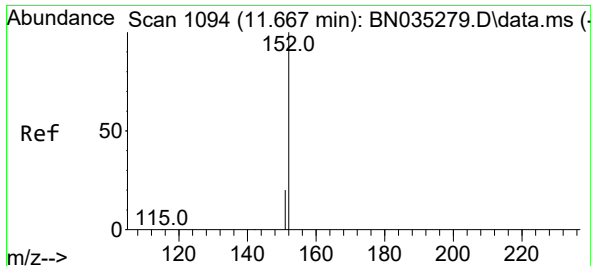
Tgt Ion:128 Resp: 5975  
Ion Ratio Lower Upper  
128 100  
129 12.0 9.6 14.4  
127 14.8 11.3 16.9



#10  
Hexachlorobutadiene  
Concen: 0.442 ng  
RT: 10.415 min Scan# 949  
Delta R.T. -0.000 min  
Lab File: BN035284.D  
Acq: 25 Nov 2024 14:29

Tgt Ion:225 Resp: 1929  
Ion Ratio Lower Upper  
225 100  
223 0.0 0.0 0.0  
227 63.7 51.3 76.9

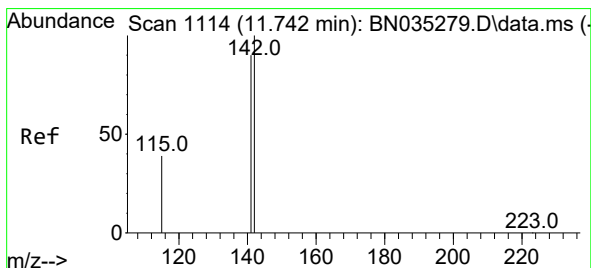
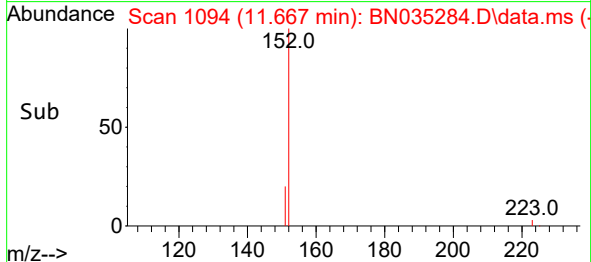
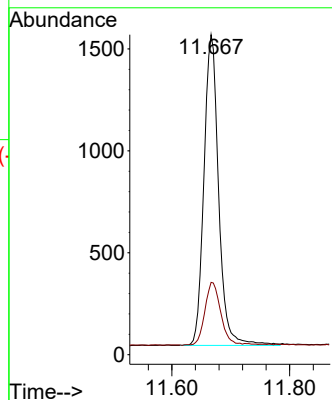
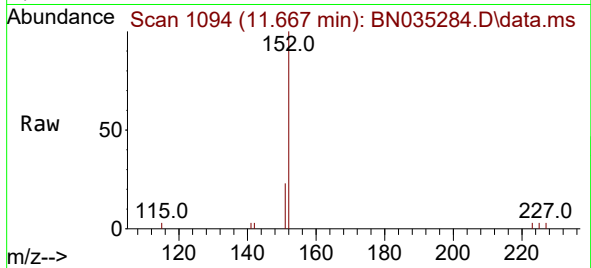




#11  
2-Methylnaphthalene-d10  
Concen: 0.337 ng  
RT: 11.667 min Scan# 1109  
Delta R.T. -0.000 min  
Lab File: BN035284.D  
Acq: 25 Nov 2024 14:29

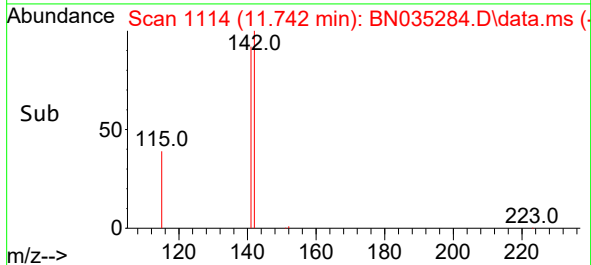
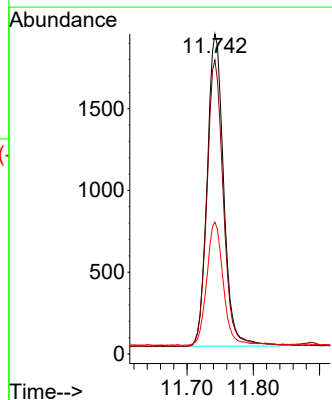
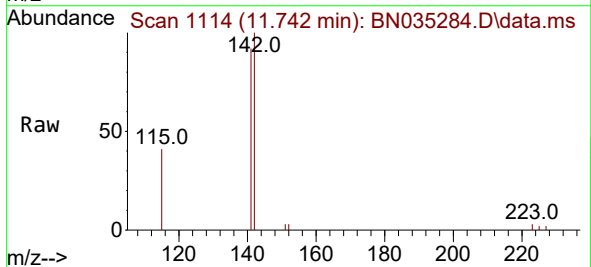
Instrument :  
BNA\_N  
ClientSampleId :  
ICVBN112524

Tgt Ion:152 Resp: 2635  
Ion Ratio Lower Upper  
152 100  
151 21.9 17.2 25.8

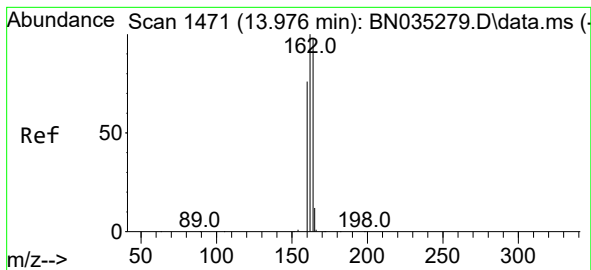


#12  
2-Methylnaphthalene  
Concen: 0.325 ng  
RT: 11.742 min Scan# 1114  
Delta R.T. 0.000 min  
Lab File: BN035284.D  
Acq: 25 Nov 2024 14:29

Tgt Ion:142 Resp: 3297  
Ion Ratio Lower Upper  
142 100  
141 91.9 71.8 107.8  
115 41.2 32.6 49.0







#13

Acenaphthene-d10

Concen: 0.400 ng

RT: 13.976 min Scan# 1471

Delta R.T. -0.000 min

Lab File: BN035284.D

Acq: 25 Nov 2024 14:29

Instrument :

BNA\_N

ClientSampleId :

ICVBN112524

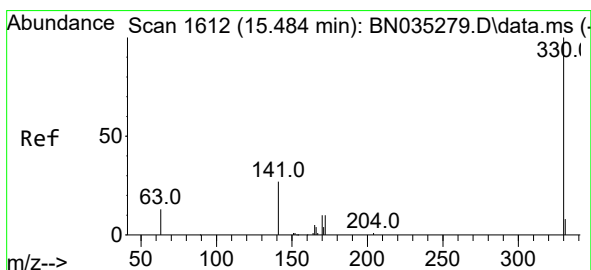
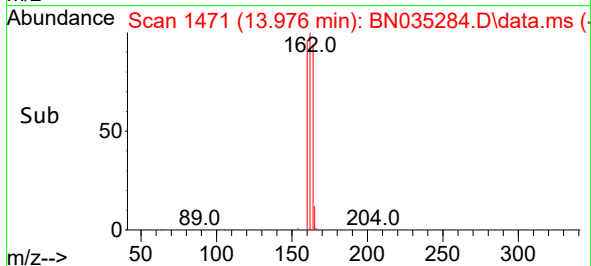
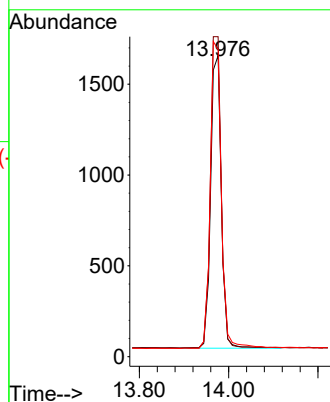
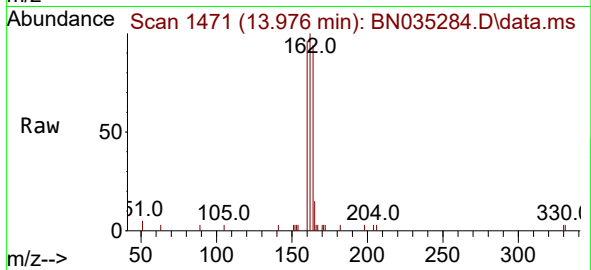
Tgt Ion:164 Resp: 2659

Ion Ratio Lower Upper

164 100

162 106.3 82.0 123.0

160 101.9 63.0 94.4#



#14

2,4,6-Tribromophenol

Concen: 0.402 ng

RT: 15.484 min Scan# 1612

Delta R.T. -0.000 min

Lab File: BN035284.D

Acq: 25 Nov 2024 14:29

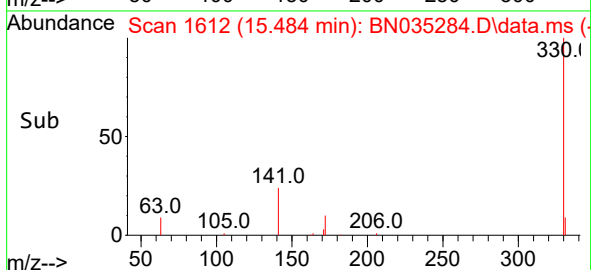
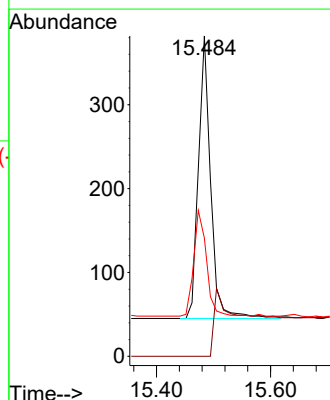
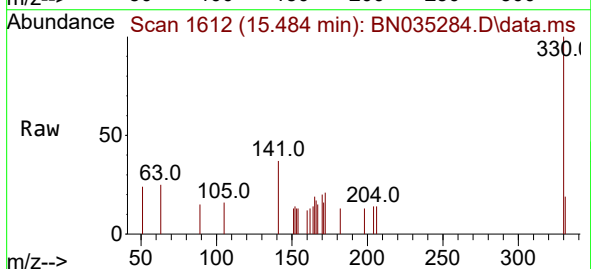
Tgt Ion:330 Resp: 546

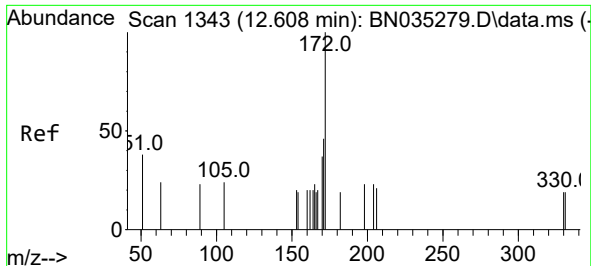
Ion Ratio Lower Upper

330 100

332 0.0 0.0 0.0

141 37.7 32.4 48.6

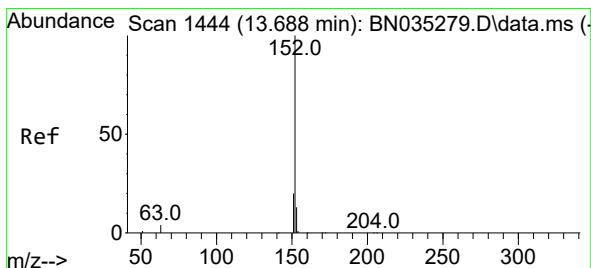
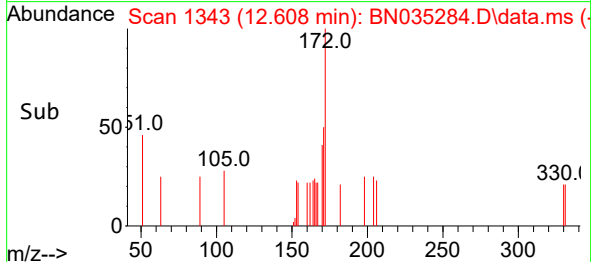
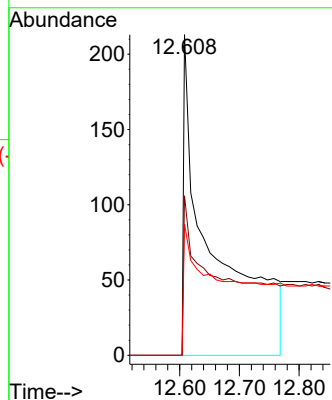
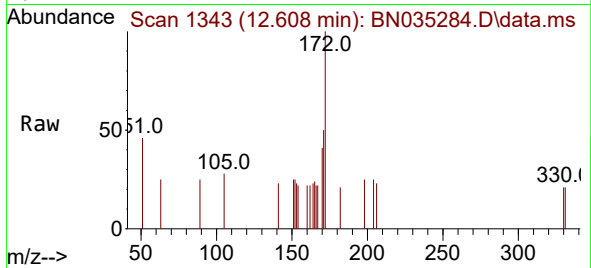




#15  
2-Fluorobiphenyl  
Concen: 0.465 ng  
RT: 12.608 min Scan# 11  
Delta R.T. -0.000 min  
Lab File: BN035284.D  
Acq: 25 Nov 2024 14:29

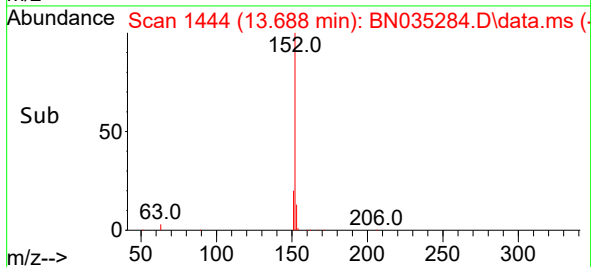
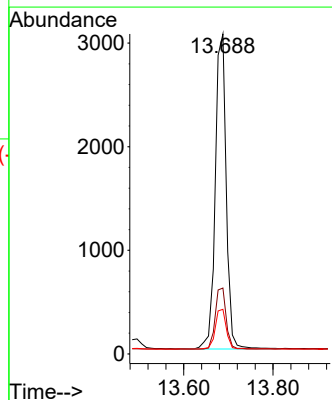
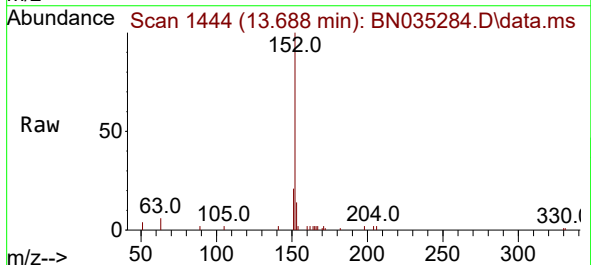
Instrument :  
BNA\_N  
ClientSampleId :  
ICVBN112524

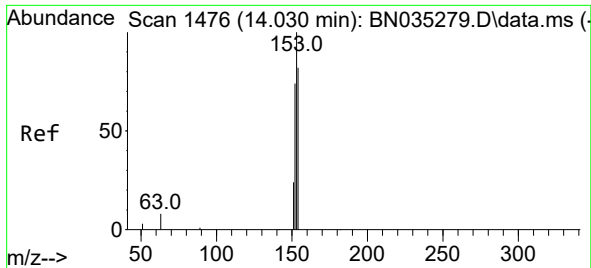
Tgt Ion:172 Resp: 683  
Ion Ratio Lower Upper  
172 100  
171 49.8 36.6 55.0  
170 40.8 29.7 44.5



#16  
Acenaphthylene  
Concen: 0.387 ng  
RT: 13.688 min Scan# 1444  
Delta R.T. -0.000 min  
Lab File: BN035284.D  
Acq: 25 Nov 2024 14:29

Tgt Ion:152 Resp: 5175  
Ion Ratio Lower Upper  
152 100  
151 19.1 15.9 23.9  
153 12.9 10.2 15.4

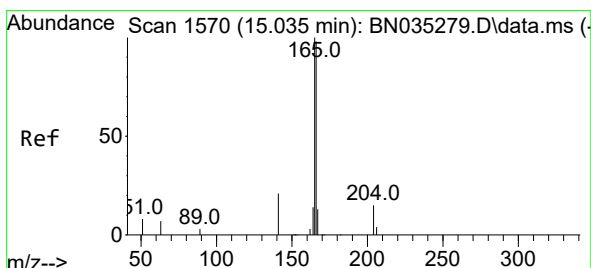
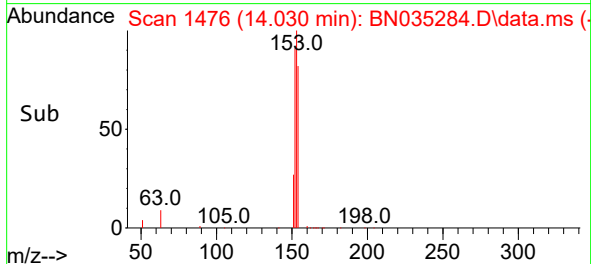
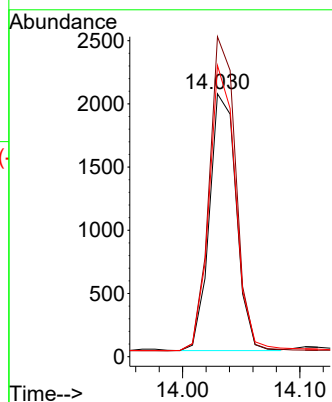
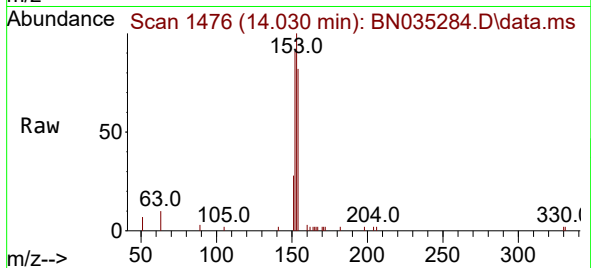




#17  
Acenaphthene  
Concen: 0.383 ng  
RT: 14.030 min Scan# 1476  
Delta R.T. -0.000 min  
Lab File: BN035284.D  
Acq: 25 Nov 2024 14:29

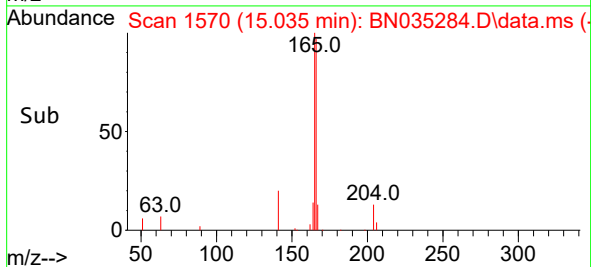
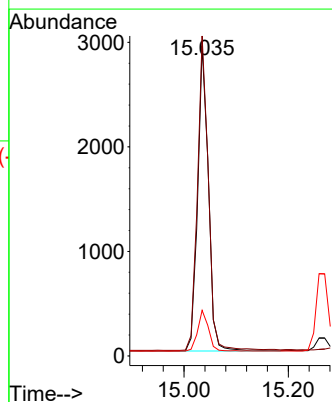
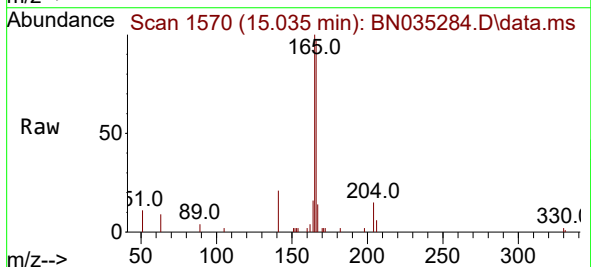
Instrument :  
BNA\_N  
ClientSampleId :  
ICVBN112524

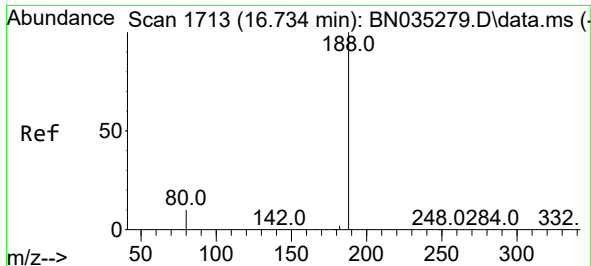
Tgt Ion:154 Resp: 3227  
Ion Ratio Lower Upper  
154 100  
153 121.8 96.1 144.1  
152 111.1 72.2 108.2#



#18  
Fluorene  
Concen: 0.355 ng  
RT: 15.035 min Scan# 1570  
Delta R.T. -0.000 min  
Lab File: BN035284.D  
Acq: 25 Nov 2024 14:29

Tgt Ion:166 Resp: 4194  
Ion Ratio Lower Upper  
166 100  
165 104.2 81.2 121.8  
167 13.7 10.5 15.7

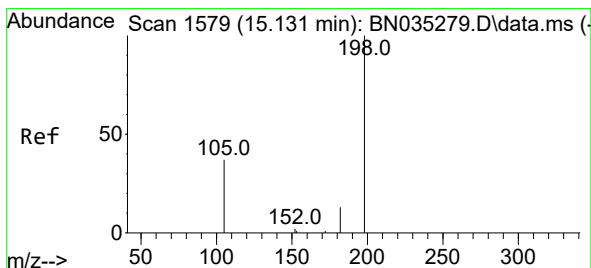
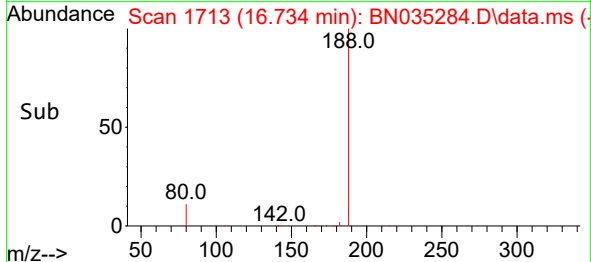
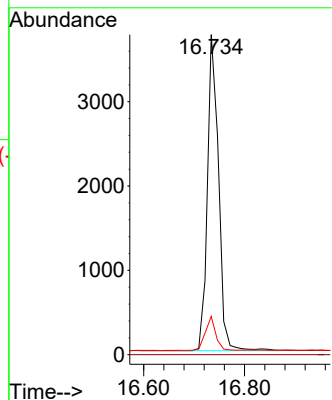
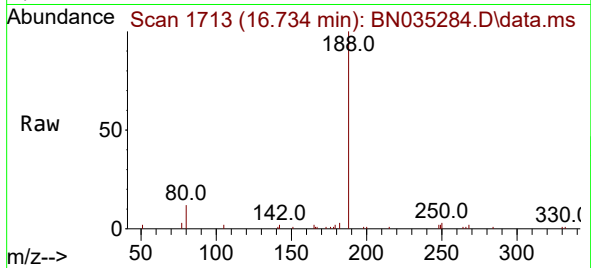




#19  
Phenanthrene-d10  
Concen: 0.400 ng  
RT: 16.734 min Scan# 1713  
Delta R.T. -0.000 min  
Lab File: BN035284.D  
Acq: 25 Nov 2024 14:29

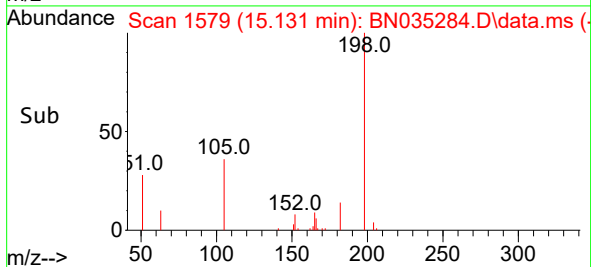
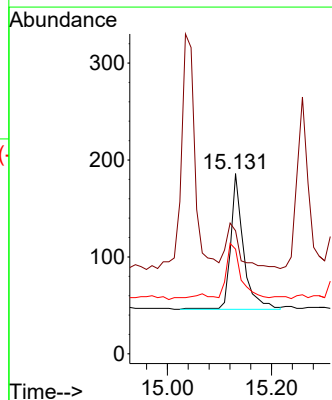
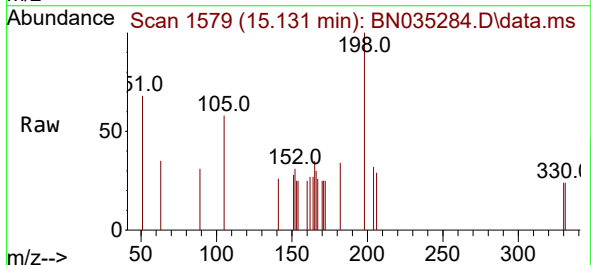
Instrument :  
BNA\_N  
ClientSampleId :  
ICVBN112524

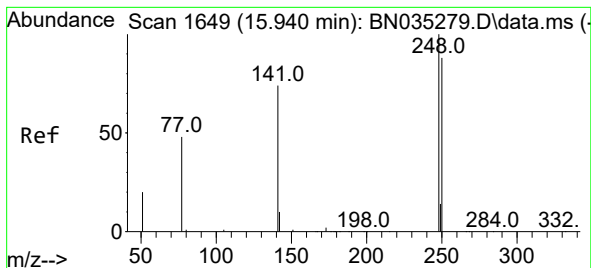
Tgt Ion:188 Resp: 5748  
Ion Ratio Lower Upper  
188 100  
94 0.0 0.0 0.0  
80 11.9 8.9 13.3



#20  
4,6-Dinitro-2-methylphenol  
Concen: 0.477 ng  
RT: 15.131 min Scan# 1579  
Delta R.T. -0.000 min  
Lab File: BN035284.D  
Acq: 25 Nov 2024 14:29

Tgt Ion:198 Resp: 239  
Ion Ratio Lower Upper  
198 100  
51 68.3 53.6 80.4  
105 58.1 47.4 71.2

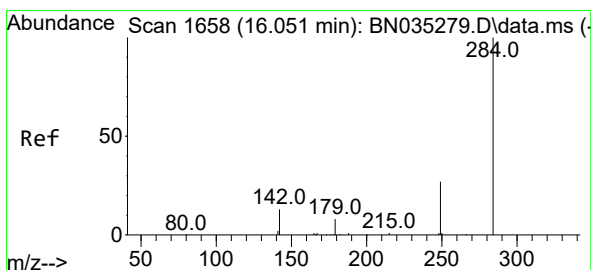
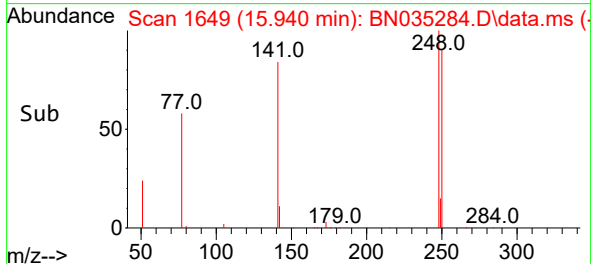
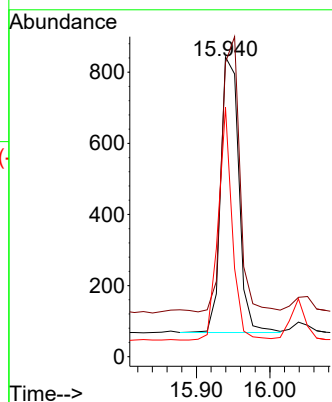
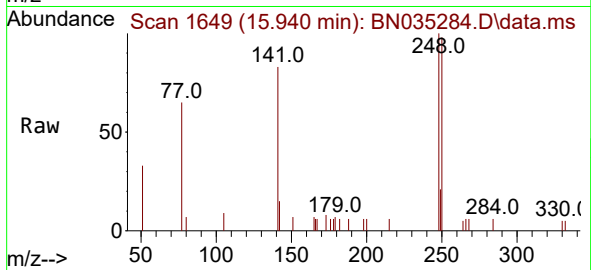




#21  
4-Bromophenyl-phenylether  
Concen: 0.364 ng  
RT: 15.940 min Scan# 1649  
Delta R.T. -0.000 min  
Lab File: BN035284.D  
Acq: 25 Nov 2024 14:29

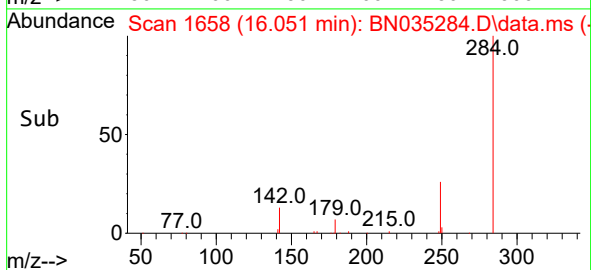
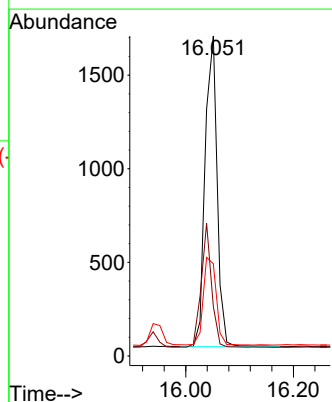
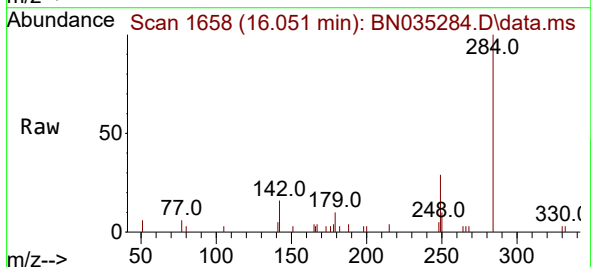
Instrument :  
BNA\_N  
ClientSampleId :  
ICVBN112524

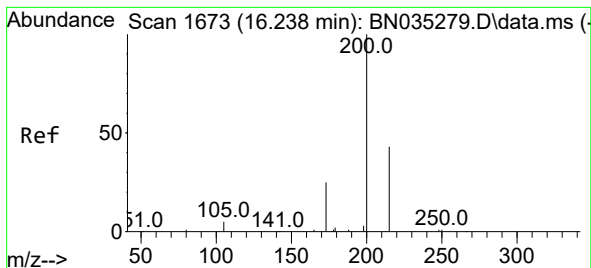
Tgt Ion:248 Resp: 1328  
Ion Ratio Lower Upper  
248 100  
250 98.1 74.8 112.2  
141 83.2 59.0 88.4



#22  
Hexachlorobenzene  
Concen: 0.491 ng  
RT: 16.051 min Scan# 1658  
Delta R.T. -0.000 min  
Lab File: BN035284.D  
Acq: 25 Nov 2024 14:29

Tgt Ion:284 Resp: 2564  
Ion Ratio Lower Upper  
284 100  
142 35.1 28.7 43.1  
249 30.5 25.4 38.0





#23

Atrazine

Concen: 0.419 ng

RT: 16.237 min Scan# 1673

Delta R.T. -0.000 min

Lab File: BN035284.D

Acq: 25 Nov 2024 14:29

Instrument :

BNA\_N

ClientSampleId :

ICVBN112524

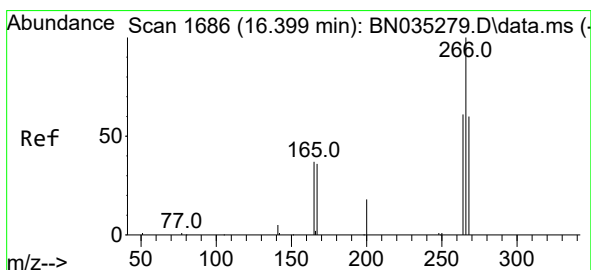
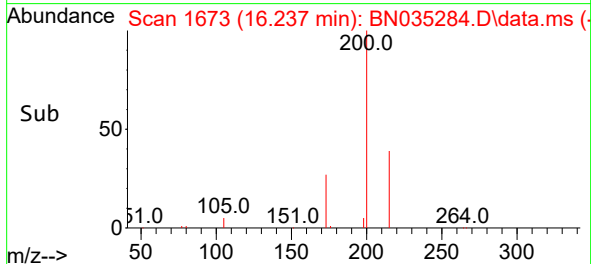
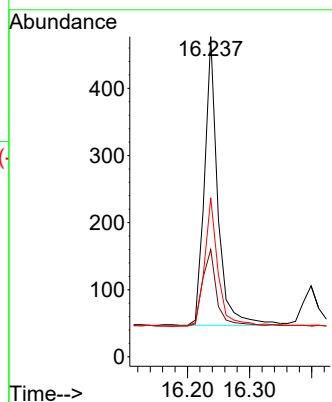
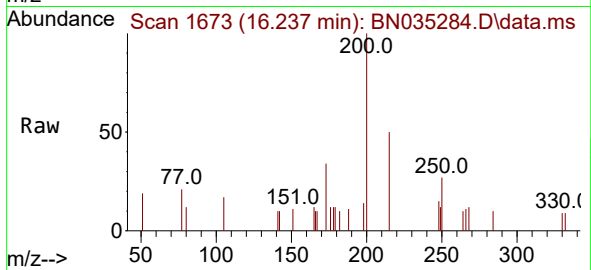
Tgt Ion:200 Resp: 643

Ion Ratio Lower Upper

200 100

173 33.5 25.8 38.8

215 49.7 38.6 58.0



#24

Pentachlorophenol

Concen: 0.407 ng

RT: 16.399 min Scan# 1686

Delta R.T. -0.000 min

Lab File: BN035284.D

Acq: 25 Nov 2024 14:29

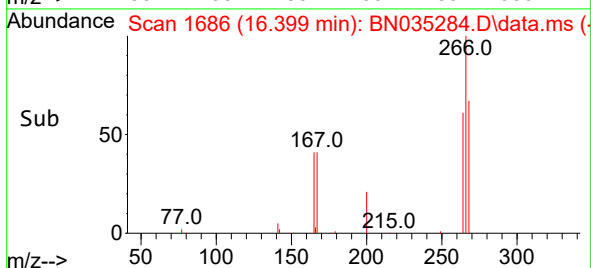
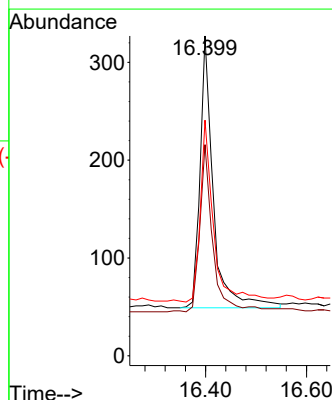
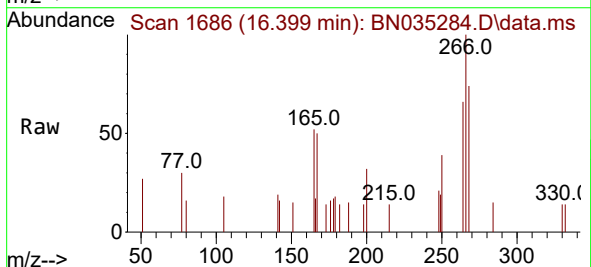
Tgt Ion:266 Resp: 510

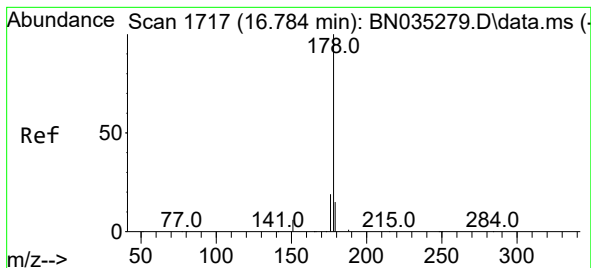
Ion Ratio Lower Upper

266 100

264 59.8 49.3 73.9

268 66.9 48.6 73.0





#25

Phenanthrene

Concen: 0.362 ng

RT: 16.784 min Scan# 1717

Delta R.T. -0.000 min

Lab File: BN035284.D

Acq: 25 Nov 2024 14:29

Instrument :

BNA\_N

ClientSampleId :

ICVBN112524

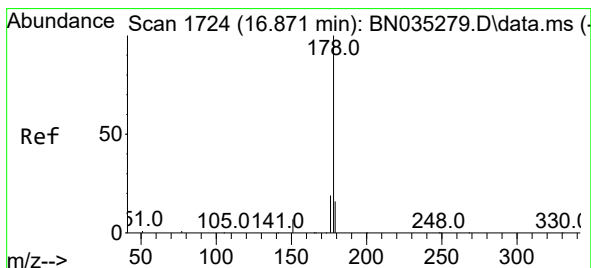
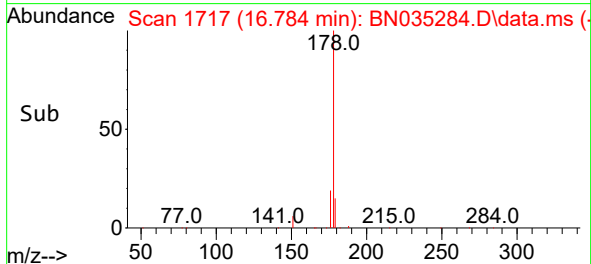
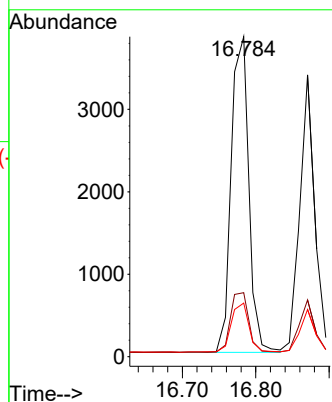
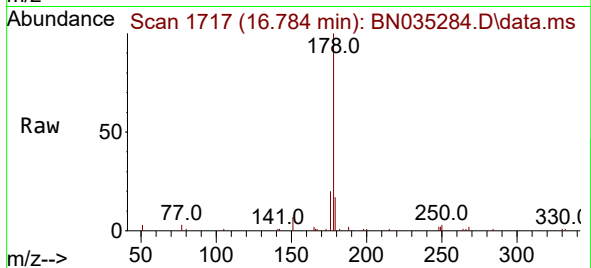
Tgt Ion:178 Resp: 6385

Ion Ratio Lower Upper

178 100

176 19.5 15.4 23.0

179 15.8 12.6 18.8



#26

Anthracene

Concen: 0.320 ng

RT: 16.870 min Scan# 1724

Delta R.T. -0.000 min

Lab File: BN035284.D

Acq: 25 Nov 2024 14:29

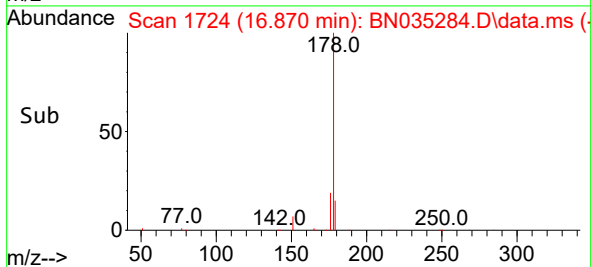
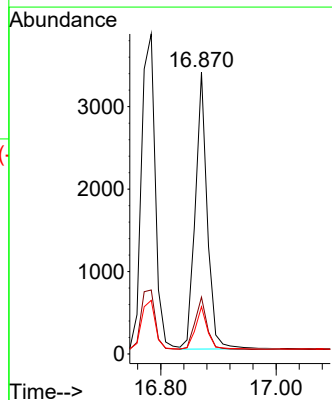
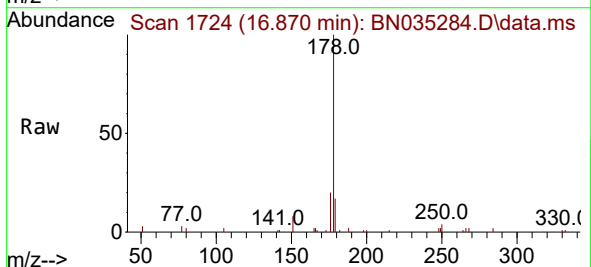
Tgt Ion:178 Resp: 4852

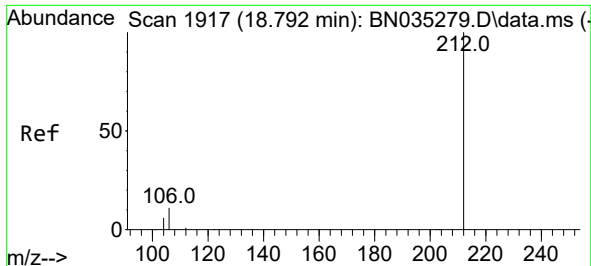
Ion Ratio Lower Upper

178 100

176 19.1 15.0 22.4

179 15.5 12.4 18.6

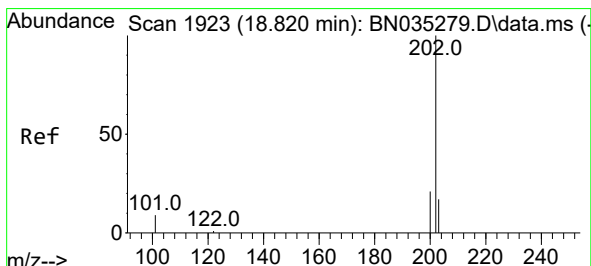
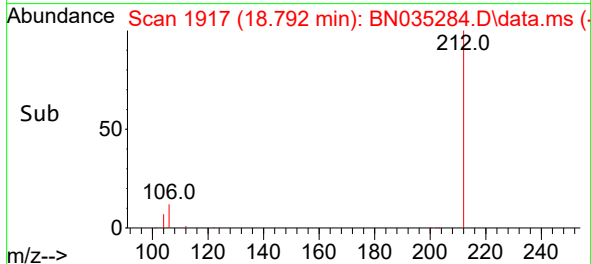
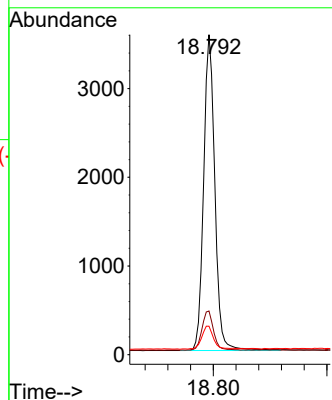
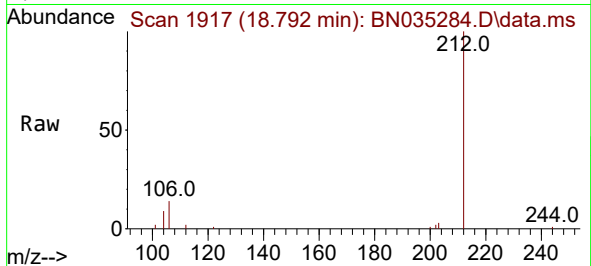




#27  
Fluoranthene-d10  
Concen: 0.317 ng  
RT: 18.792 min Scan# 1917  
Delta R.T. -0.000 min  
Lab File: BN035284.D  
Acq: 25 Nov 2024 14:29

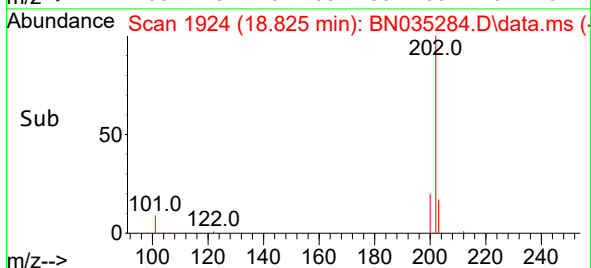
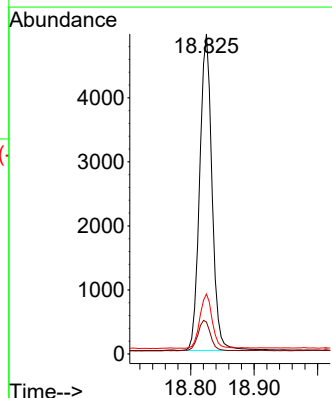
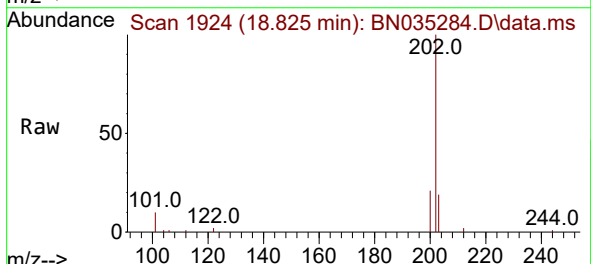
Instrument :  
BNA\_N  
ClientSampleId :  
ICVBN112524

Tgt Ion:212 Resp: 4874  
Ion Ratio Lower Upper  
212 100  
106 12.7 9.8 14.8  
104 7.9 5.6 8.4

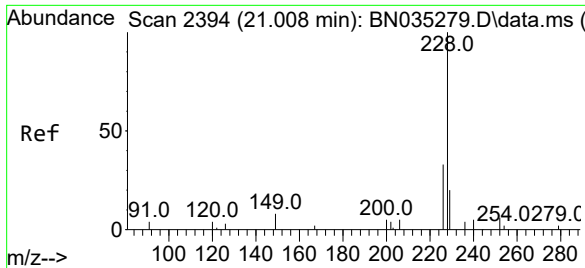


#28  
Fluoranthene  
Concen: 0.300 ng  
RT: 18.825 min Scan# 1924  
Delta R.T. 0.005 min  
Lab File: BN035284.D  
Acq: 25 Nov 2024 14:29

Tgt Ion:202 Resp: 6686  
Ion Ratio Lower Upper  
202 100  
101 9.8 7.6 11.4  
203 17.1 13.8 20.8







#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.008 min Scan# 21

Delta R.T. -0.000 min

Lab File: BN035284.D

Acq: 25 Nov 2024 14:29

Instrument :

BNA\_N

ClientSampleId :

ICVBN112524

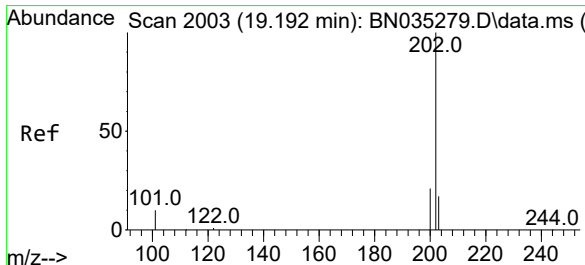
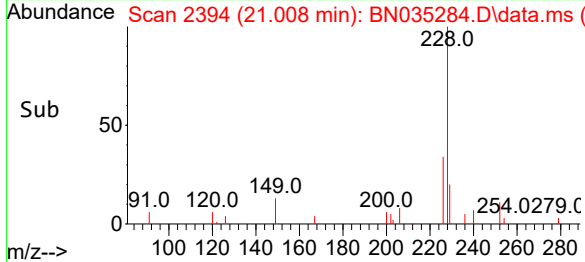
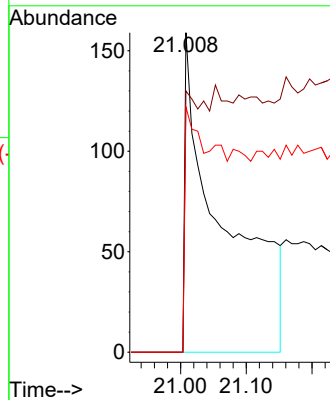
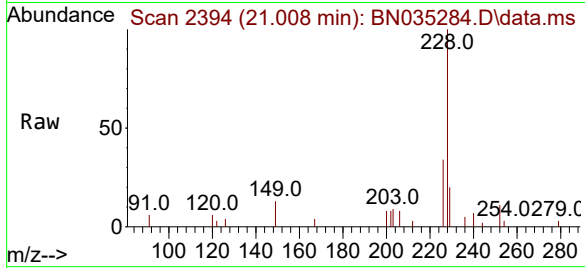
Tgt Ion:240 Resp: 611

Ion Ratio Lower Upper

240 100

120 81.8 54.9 82.3

236 76.7 54.0 81.0



#30

Pyrene

Concen: 0.294 ng

RT: 19.192 min Scan# 2003

Delta R.T. -0.000 min

Lab File: BN035284.D

Acq: 25 Nov 2024 14:29

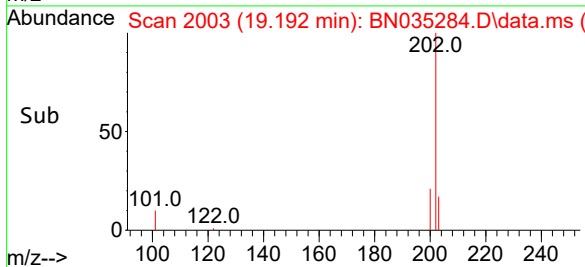
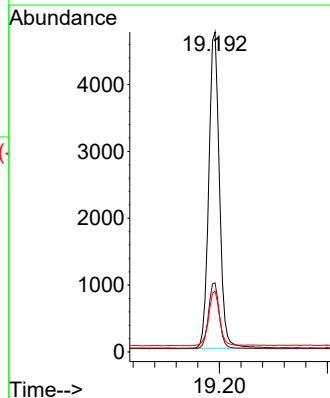
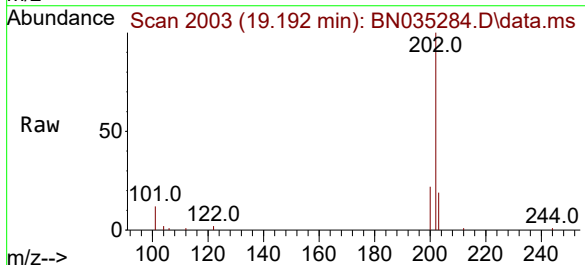
Tgt Ion:202 Resp: 6525

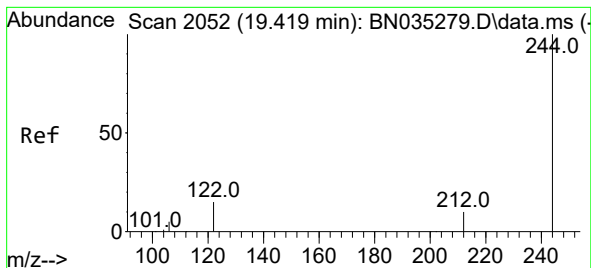
Ion Ratio Lower Upper

202 100

200 21.1 16.8 25.2

203 17.9 14.4 21.6





#31

Terphenyl-d14

Concen: 0.282 ng

RT: 19.419 min Scan# 2052

Delta R.T. 0.000 min

Lab File: BN035284.D

Acq: 25 Nov 2024 14:29

Instrument :

BNA\_N

ClientSampleId :

ICVBN112524

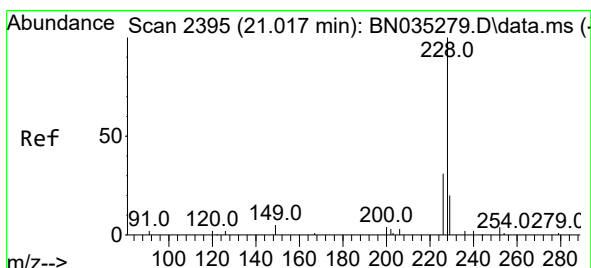
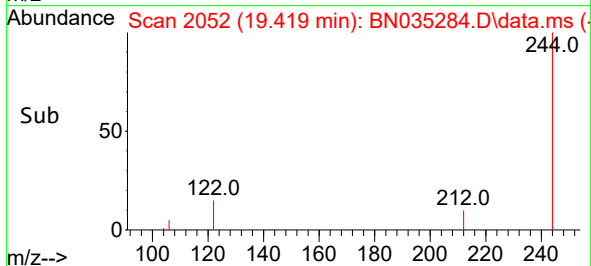
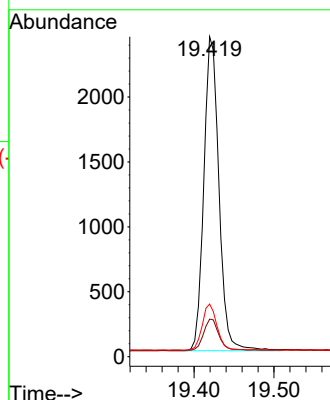
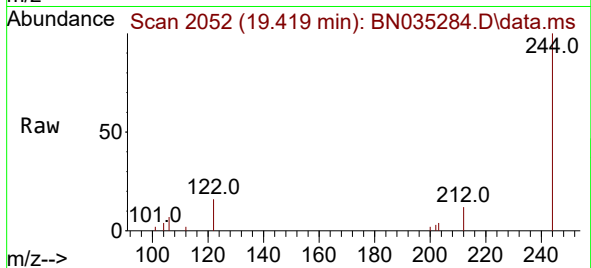
Tgt Ion:244 Resp: 3187

Ion Ratio Lower Upper

244 100

212 11.8 9.4 14.0

122 16.4 13.0 19.4



#32

Benzo(a)anthracene

Concen: 0.273 ng

RT: 21.017 min Scan# 2395

Delta R.T. 0.000 min

Lab File: BN035284.D

Acq: 25 Nov 2024 14:29

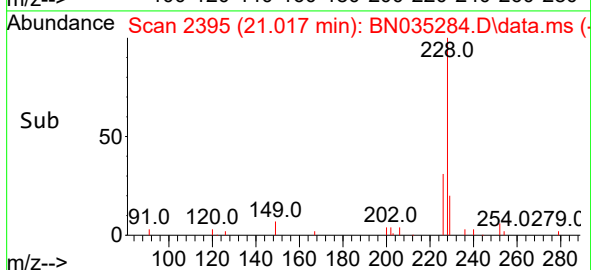
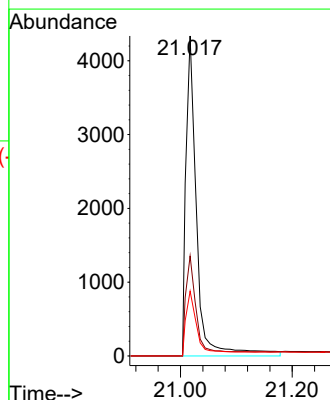
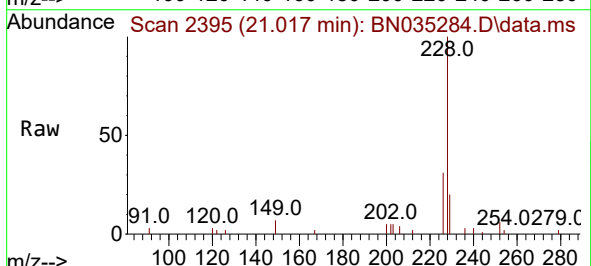
Tgt Ion:228 Resp: 5799

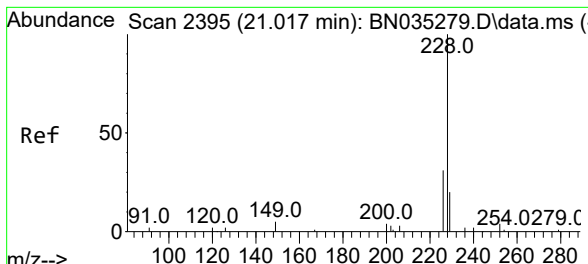
Ion Ratio Lower Upper

228 100

226 31.3 24.7 37.1

229 20.3 16.2 24.2

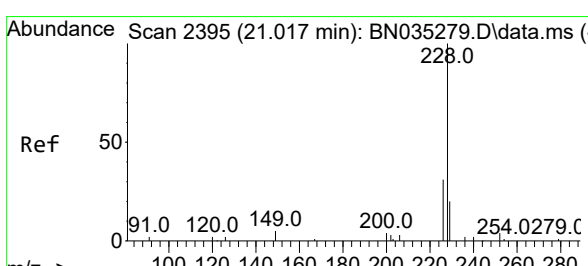
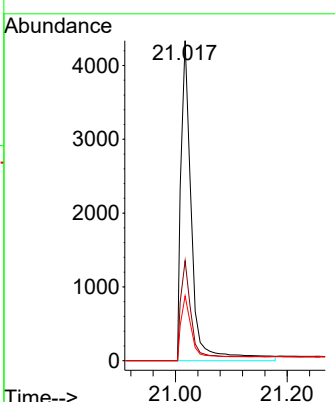
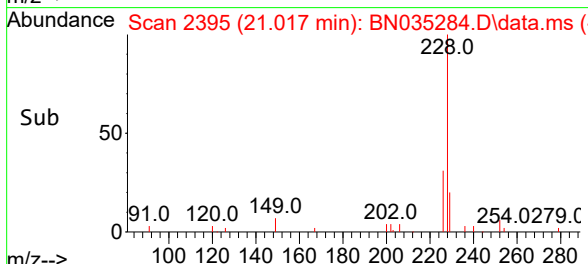
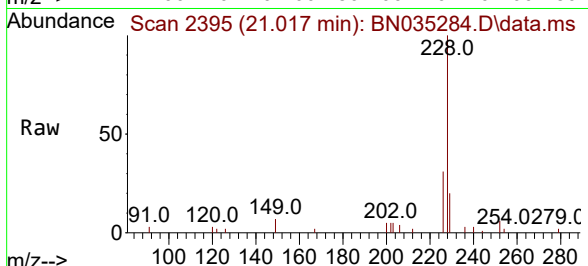




#33  
 Chrysene  
 Concen: 0.273 ng  
 RT: 21.017 min Scan# 21  
 Delta R.T. -0.000 min  
 Lab File: BN035284.D  
 Acq: 25 Nov 2024 14:29

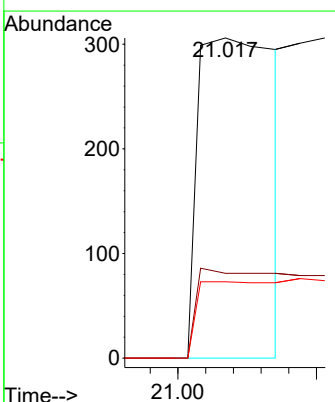
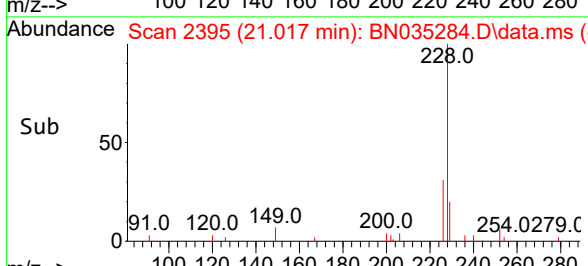
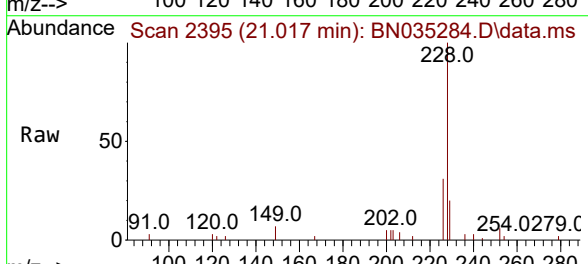
Instrument : BNA\_N  
 ClientSampleId : ICVBN112524

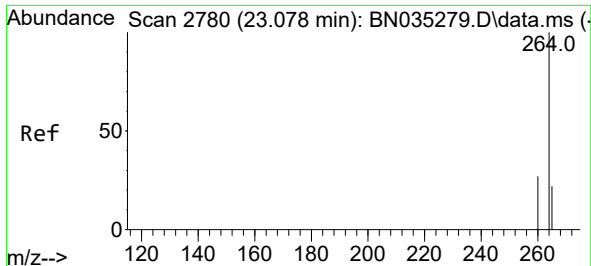
|           |       |       |      |
|-----------|-------|-------|------|
| Tgt Ion:  | 228   | Resp: | 5799 |
| Ion Ratio | Lower | Upper |      |
| 228       | 100   |       |      |
| 226       | 31.3  | 24.7  | 37.1 |
| 229       | 20.3  | 16.2  | 24.2 |



#34  
 Bis(2-ethylhexyl)phthalate  
 Concen: 0.041 ng  
 RT: 21.017 min Scan# 2395  
 Delta R.T. 0.000 min  
 Lab File: BN035284.D  
 Acq: 25 Nov 2024 14:29

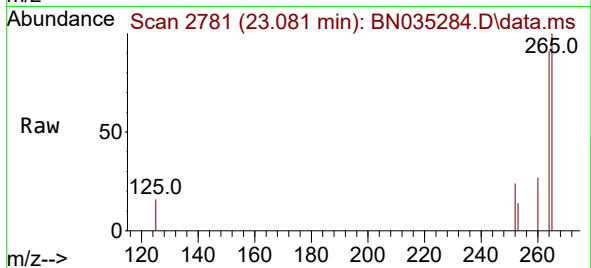
|           |       |       |      |
|-----------|-------|-------|------|
| Tgt Ion:  | 149   | Resp: | 520  |
| Ion Ratio | Lower | Upper |      |
| 149       | 100   |       |      |
| 167       | 35.4  | 0.0   | 0.0# |
| 279       | 17.1  | 13.0  | 19.6 |



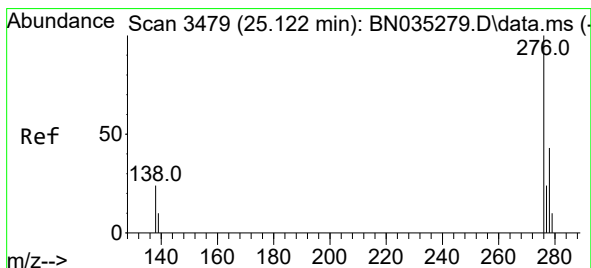
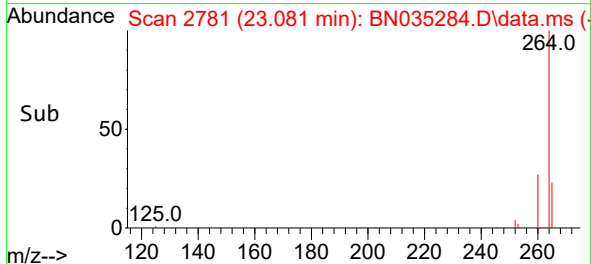
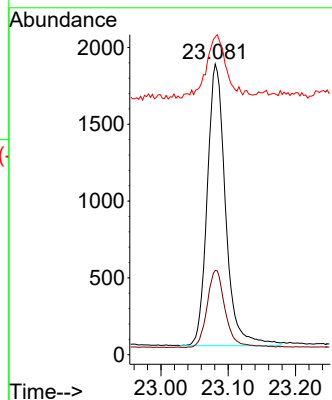


#35  
Perylene-d12  
Concen: 0.400 ng  
RT: 23.081 min Scan# 21  
Delta R.T. 0.003 min  
Lab File: BN035284.D  
Acq: 25 Nov 2024 14:29

Instrument :  
BNA\_N  
ClientSampleId :  
ICVBN112524

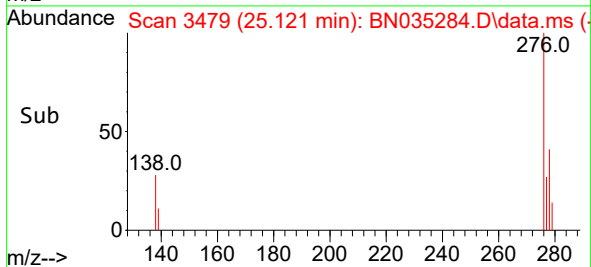
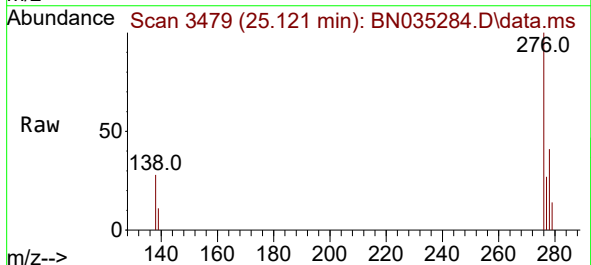
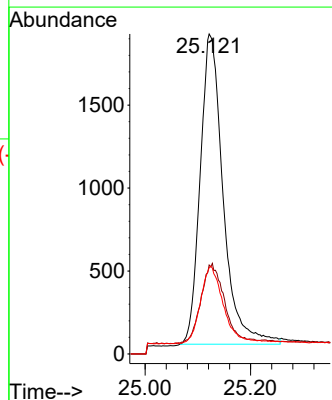


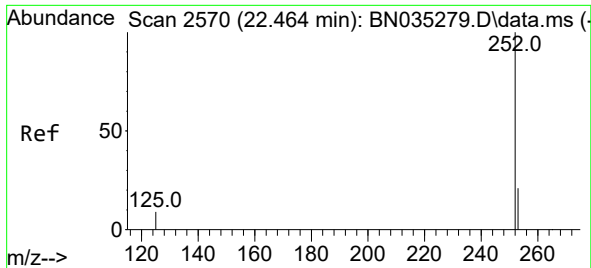
Tgt Ion:264 Resp: 3470  
Ion Ratio Lower Upper  
264 100  
260 29.0 22.3 33.5  
265 109.3 68.6 103.0#



#36  
Indeno(1,2,3-cd)pyrene  
Concen: 0.398 ng  
RT: 25.121 min Scan# 3479  
Delta R.T. -0.000 min  
Lab File: BN035284.D  
Acq: 25 Nov 2024 14:29

Tgt Ion:276 Resp: 5652  
Ion Ratio Lower Upper  
276 100  
138 23.1 18.8 28.2  
277 23.0 18.2 27.4

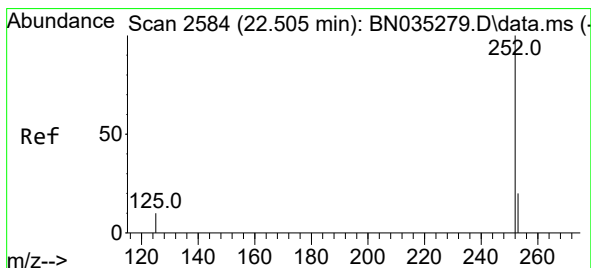
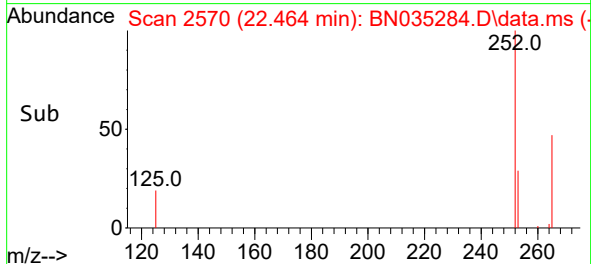
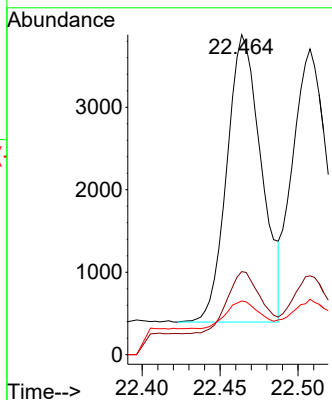
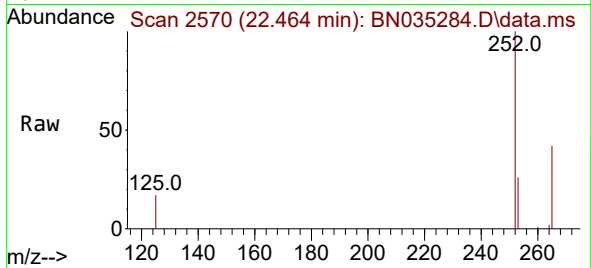




#37  
Benzo(b)fluoranthene  
Concen: 0.355 ng  
RT: 22.464 min Scan# 21  
Delta R.T. -0.000 min  
Lab File: BN035284.D  
Acq: 25 Nov 2024 14:29

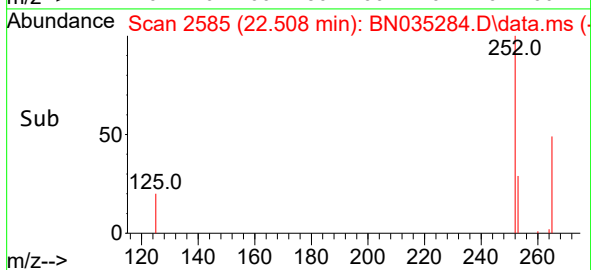
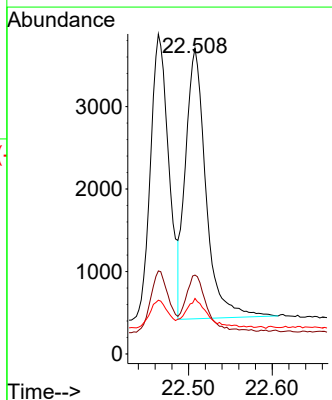
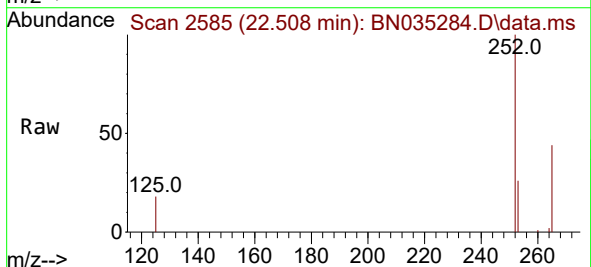
Instrument :  
BNA\_N  
ClientSampleId :  
ICVBN112524

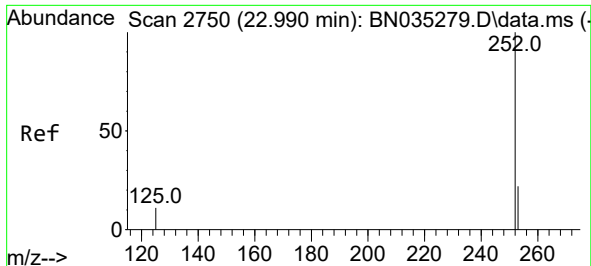
Tgt Ion:252 Resp: 5358  
Ion Ratio Lower Upper  
252 100  
253 26.0 20.2 30.2  
125 16.8 12.0 18.0



#38  
Benzo(k)fluoranthene  
Concen: 0.348 ng  
RT: 22.508 min Scan# 2585  
Delta R.T. 0.003 min  
Lab File: BN035284.D  
Acq: 25 Nov 2024 14:29

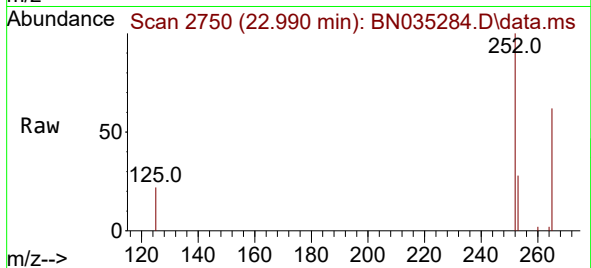
Tgt Ion:252 Resp: 5559  
Ion Ratio Lower Upper  
252 100  
253 25.8 20.1 30.1  
125 18.1 12.7 19.1



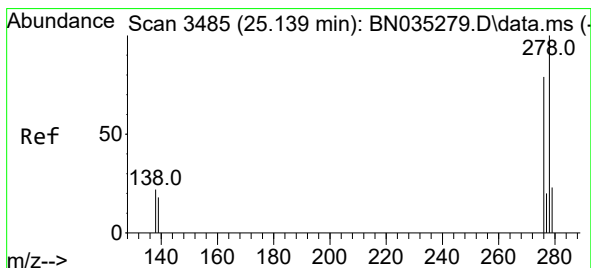
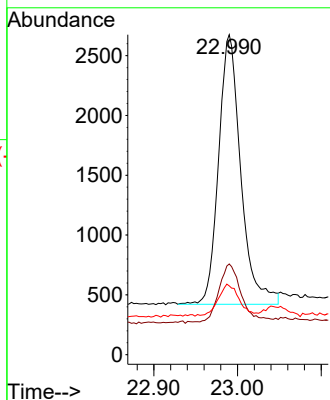
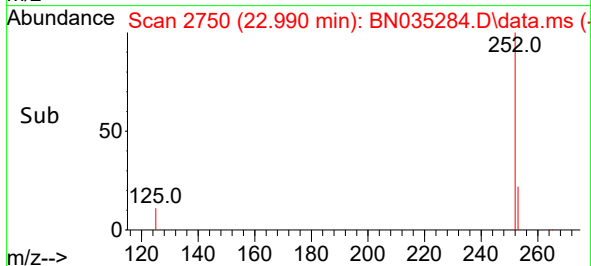


#39  
Benzo(a)pyrene  
Concen: 0.361 ng  
RT: 22.990 min Scan# 21  
Delta R.T. -0.000 min  
Lab File: BN035284.D  
Acq: 25 Nov 2024 14:29

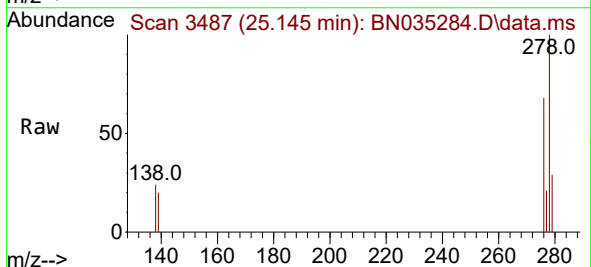
Instrument :  
BNA\_N  
ClientSampleId :  
ICVBN112524



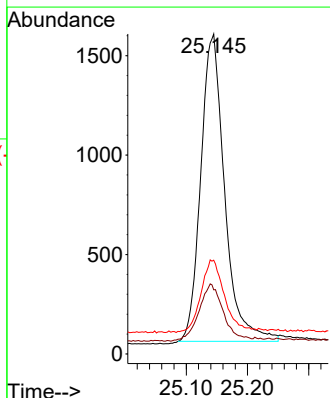
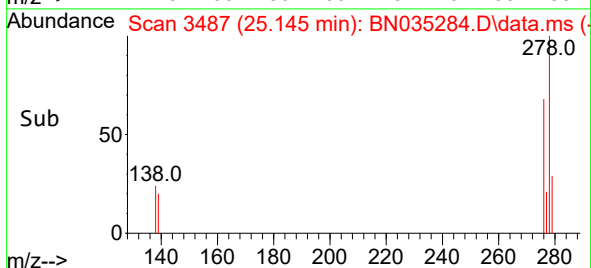
Tgt Ion:252 Resp: 4167  
Ion Ratio Lower Upper  
252 100  
253 28.3 22.3 33.5  
125 21.5 15.3 22.9

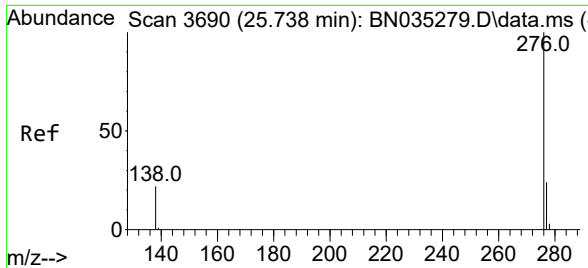


#40  
Dibenzo(a,h)anthracene  
Concen: 0.389 ng  
RT: 25.145 min Scan# 3487  
Delta R.T. 0.006 min  
Lab File: BN035284.D  
Acq: 25 Nov 2024 14:29



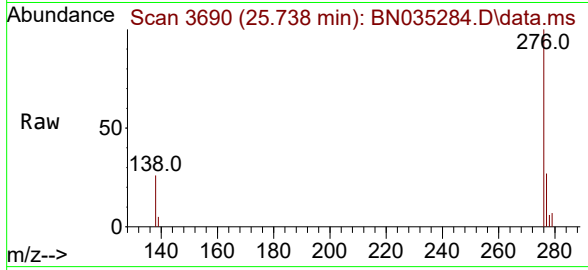
Tgt Ion:278 Resp: 4182  
Ion Ratio Lower Upper  
278 100  
139 20.1 17.0 25.6  
279 29.3 23.0 34.4



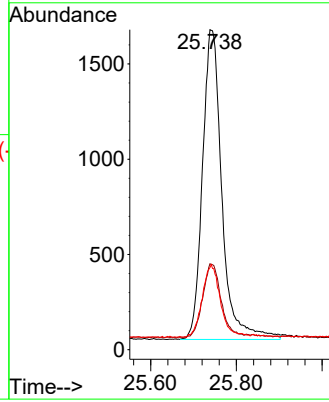
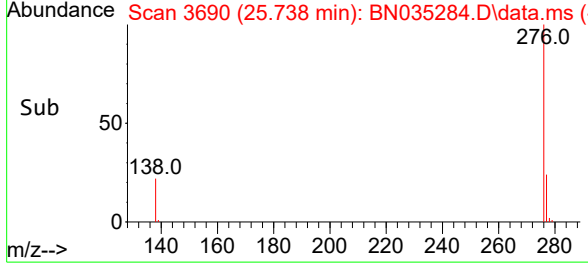


#41  
Benzo(g,h,i)perylene  
Concen: 0.412 ng  
RT: 25.738 min Scan# 30  
Delta R.T. -0.000 min  
Lab File: BN035284.D  
Acq: 25 Nov 2024 14:29

Instrument :  
BNA\_N  
ClientSampleId :  
ICVBN112524



|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 276   | Resp: | 5121  |
| Ion      | Ratio | Lower | Upper |
| 276      | 100   |       |       |
| 277      | 26.8  | 21.1  | 31.7  |
| 138      | 25.7  | 19.8  | 29.8  |



Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN112524\  
 Data File : BN035293.D  
 Acq On : 25 Nov 2024 23:02  
 Operator : RC/JU  
 Sample : SSTDCCC0.4  
 Misc :  
 ALS Vial : 76 Sample Multiplier: 1

Instrument :  
 BNA\_N  
 ClientSampleId :  
 SSTDCCC0.4

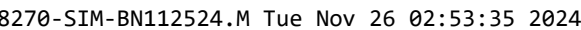
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 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\8270-SIM-BN112524.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Tue Nov 26 02:36:08 2024  
 Response via : Initial Calibration

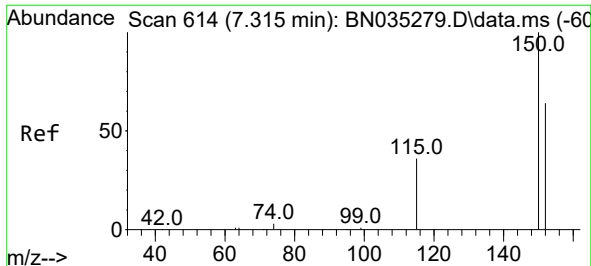
| Compound                      | R.T.   | QIon | Response | Conc  | Units | Dev(Min) |
|-------------------------------|--------|------|----------|-------|-------|----------|
| Internal Standards            |        |      |          |       |       |          |
| 1) 1,4-Dichlorobenzene-d4     | 7.315  | 152  | 3724     | 0.400 | ng    | 0.00     |
| 7) Naphthalene-d8             | 10.063 | 136  | 9273     | 0.400 | ng    | # 0.00   |
| 13) Acenaphthene-d10          | 13.973 | 164  | 5865     | 0.400 | ng    | # 0.00   |
| 19) Phenanthrene-d10          | 16.741 | 188  | 12563    | 0.400 | ng    | # 0.00   |
| 29) Chrysene-d12              | 21.006 | 240  | 932      | 0.400 | ng    | # 0.00   |
| 35) Perylene-d12              | 23.078 | 264  | 7119     | 0.400 | ng    | # 0.00   |
| System Monitoring Compounds   |        |      |          |       |       |          |
| 4) 2-Fluorophenol             | 4.968  | 112  | 3633     | 0.516 | ng    | 0.00     |
| 5) Phenol-d6                  | 6.513  | 99   | 4690     | 0.477 | ng    | 0.00     |
| 8) Nitrobenzene-d5            | 8.450  | 82   | 1996     | 0.265 | ng    | 0.00     |
| 11) 2-Methylnaphthalene-d10   | 11.663 | 152  | 5475     | 0.422 | ng    | 0.00     |
| 14) 2,4,6-Tribromophenol      | 15.480 | 330  | 1245     | 0.416 | ng    | 0.00     |
| 15) 2-Fluorobiphenyl          | 12.604 | 172  | 851      | 0.263 | ng    | 0.00     |
| 27) Fluoranthene-d10          | 18.790 | 212  | 11601    | 0.345 | ng    | 0.00     |
| 31) Terphenyl-d14             | 19.422 | 244  | 7795     | 0.453 | ng    | 0.00     |
| Target Compounds              |        |      |          |       |       |          |
| 2) 1,4-Dioxane                | 3.003  | 88   | 1344     | 0.502 | ng    | # 72     |
| 3) n-Nitrosodimethylamine     | 3.299  | 42   | 1095     | 0.395 | ng    | # 72     |
| 6) bis(2-Chloroethyl)ether    | 6.766  | 93   | 3610     | 0.436 | ng    | 98       |
| 9) Naphthalene                | 10.105 | 128  | 9911     | 0.385 | ng    | 100      |
| 10) Hexachlorobutadiene       | 10.404 | 225  | 2320     | 0.321 | ng    | # 100    |
| 12) 2-Methylnaphthalene       | 11.742 | 142  | 6764     | 0.402 | ng    | 98       |
| 16) Acenaphthylene            | 13.684 | 152  | 9720     | 0.329 | ng    | 99       |
| 17) Acenaphthene              | 14.037 | 154  | 6539     | 0.352 | ng    | # 85     |
| 18) Fluorene                  | 15.031 | 166  | 8779     | 0.337 | ng    | 98       |
| 20) 4,6-Dinitro-2-methylph... | 15.127 | 198  | 368      | 0.392 | ng    | 96       |
| 21) 4-Bromophenyl-phenylether | 15.946 | 248  | 3083     | 0.387 | ng    | # 78     |
| 22) Hexachlorobenzene         | 16.046 | 284  | 3763     | 0.330 | ng    | 99       |
| 23) Atrazine                  | 16.232 | 200  | 1428     | 0.425 | ng    | 99       |
| 24) Pentachlorophenol         | 16.393 | 266  | 1142     | 0.417 | ng    | 98       |
| 25) Phenanthrene              | 16.778 | 178  | 13726    | 0.356 | ng    | 100      |
| 26) Anthracene                | 16.865 | 178  | 11907    | 0.359 | ng    | 100      |
| 28) Fluoranthene              | 18.822 | 202  | 15419    | 0.317 | ng    | 100      |
| 30) Pyrene                    | 19.189 | 202  | 14952    | 0.441 | ng    | 100      |
| 32) Benzo(a)anthracene        | 21.015 | 228  | 11234    | 0.346 | ng    | 99       |
| 33) Chrysene                  | 21.015 | 228  | 11234    | 0.346 | ng    | 99       |
| 34) Bis(2-ethylhexyl)phtha... | 21.006 | 149  | 416      | 0.233 | ng    | # 64     |
| 36) Indeno(1,2,3-cd)pyrene    | 25.119 | 276  | 11225    | 0.385 | ng    | 99       |
| 37) Benzo(b)fluoranthene      | 22.464 | 252  | 9762     | 0.316 | ng    | 98       |
| 38) Benzo(k)fluoranthene      | 22.505 | 252  | 10556    | 0.323 | ng    | 98       |
| 39) Benzo(a)pyrene            | 22.991 | 252  | 8259     | 0.349 | ng    | 97       |
| 40) Dibenzo(a,h)anthracene    | 25.140 | 278  | 8482     | 0.385 | ng    | 96       |
| 41) Benzo(g,h,i)perylene      | 25.742 | 276  | 9609     | 0.377 | ng    | 97       |

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



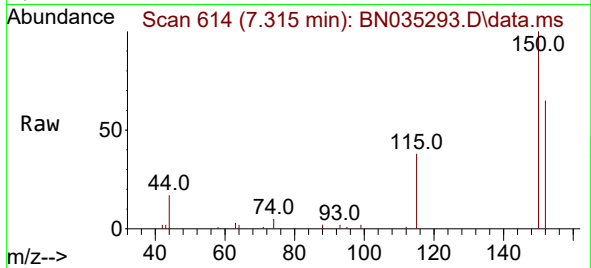
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Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\8270-SIM-BN112524.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Tue Nov 26 02:36:08 2024  
Response via : Initial Calibration



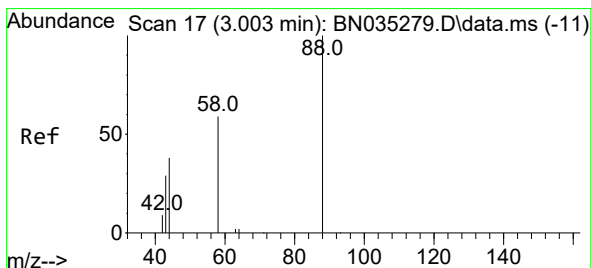
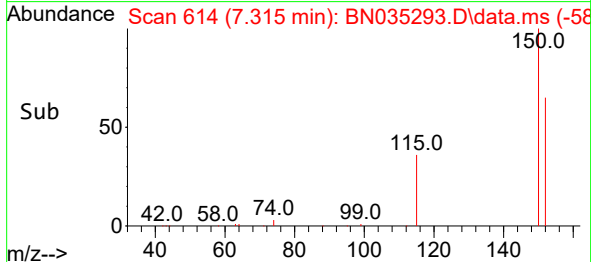
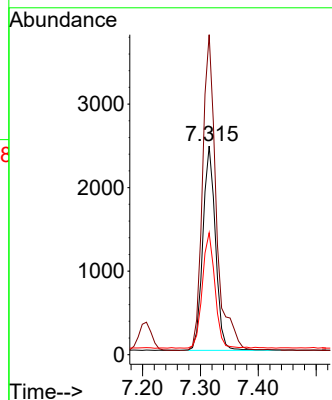


#1  
1,4-Dichlorobenzene-d4  
Concen: 0.400 ng  
RT: 7.315 min Scan# 61  
Delta R.T. 0.000 min  
Lab File: BN035293.D  
Acq: 25 Nov 2024 23:02

Instrument :  
BNA\_N  
ClientSampleId :  
SSTDCCC0.4

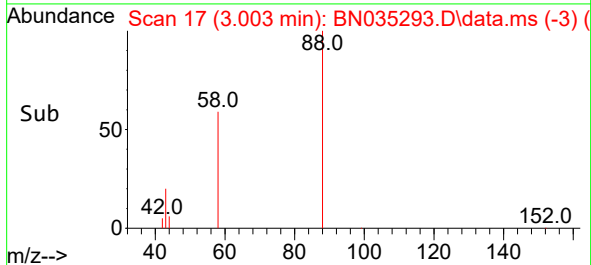
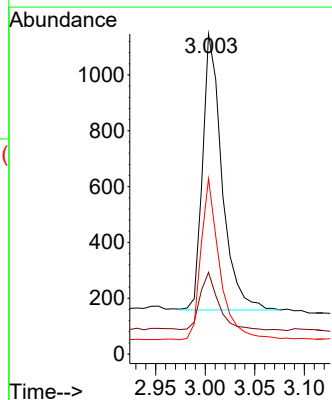
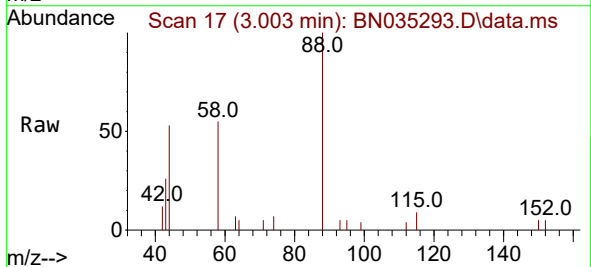


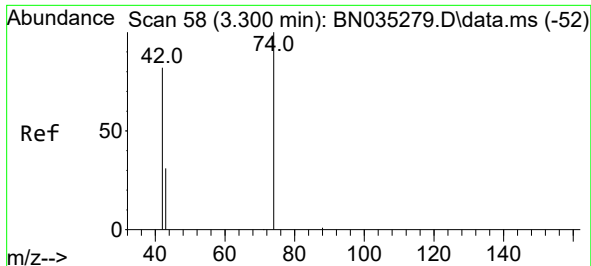
Tgt Ion:152 Resp: 3724  
Ion Ratio Lower Upper  
152 100  
150 153.4 124.5 186.7  
115 58.4 47.8 71.8



#2  
1,4-Dioxane  
Concen: 0.502 ng  
RT: 3.003 min Scan# 17  
Delta R.T. 0.000 min  
Lab File: BN035293.D  
Acq: 25 Nov 2024 23:02

Tgt Ion: 88 Resp: 1344  
Ion Ratio Lower Upper  
88 100  
43 19.7 48.1 72.1#  
58 56.6 46.9 70.3

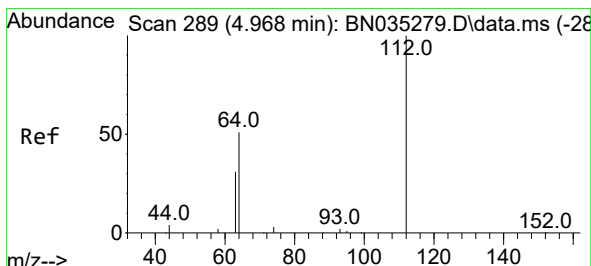
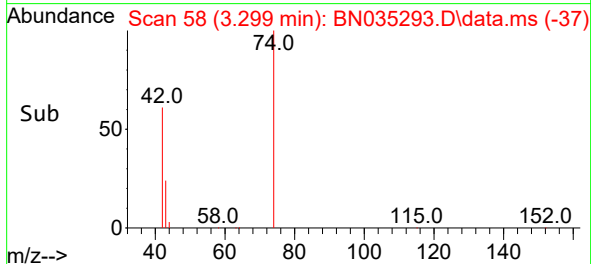
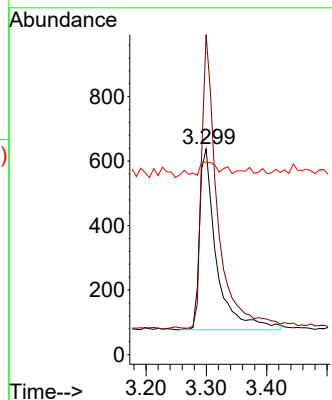
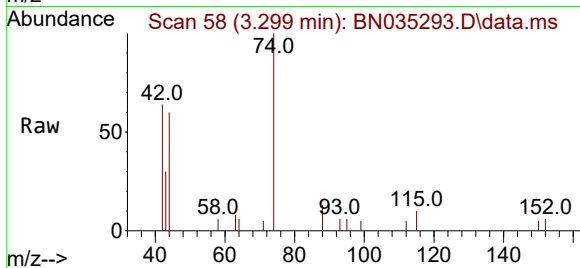




#3  
n-Nitrosodimethylamine  
Concen: 0.395 ng  
RT: 3.299 min Scan# 58  
Delta R.T. -0.001 min  
Lab File: BN035293.D  
Acq: 25 Nov 2024 23:02

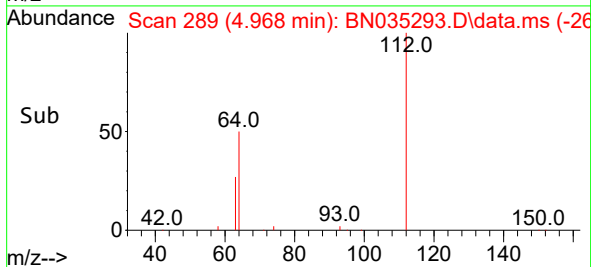
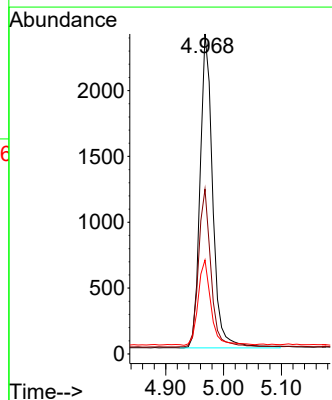
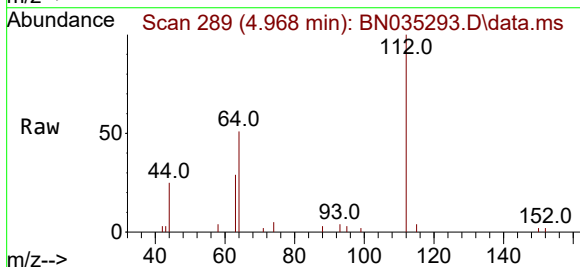
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BNA\_N  
ClientSampleId :  
SSTDCCC0.4

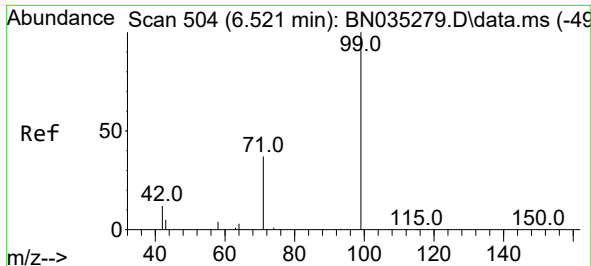
Tgt Ion: 42 Resp: 1095  
Ion Ratio Lower Upper  
42 100  
74 151.0 102.7 154.1  
44 9.1 34.1 51.1#



#4  
2-Fluorophenol  
Concen: 0.516 ng  
RT: 4.968 min Scan# 289  
Delta R.T. -0.000 min  
Lab File: BN035293.D  
Acq: 25 Nov 2024 23:02

Tgt Ion: 112 Resp: 3633  
Ion Ratio Lower Upper  
112 100  
64 49.6 40.4 60.6  
63 27.7 23.8 35.8

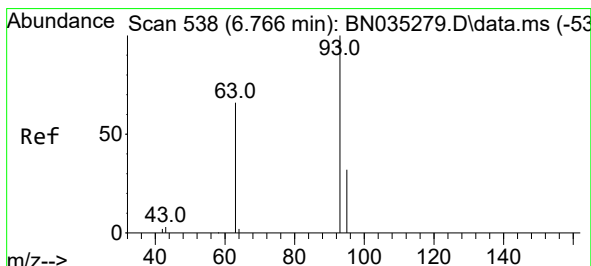
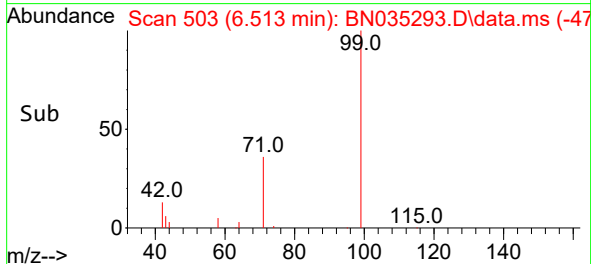
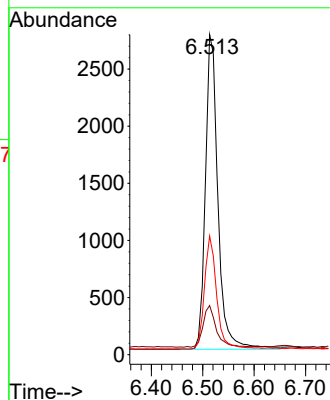
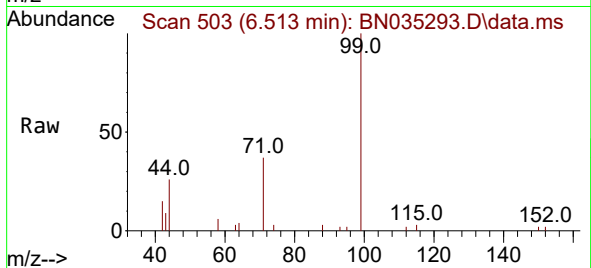




#5  
Phenol-d6  
Concen: 0.477 ng  
RT: 6.513 min Scan# 504  
Delta R.T. -0.007 min  
Lab File: BN035293.D  
Acq: 25 Nov 2024 23:02

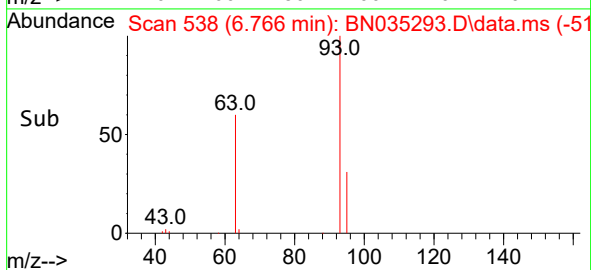
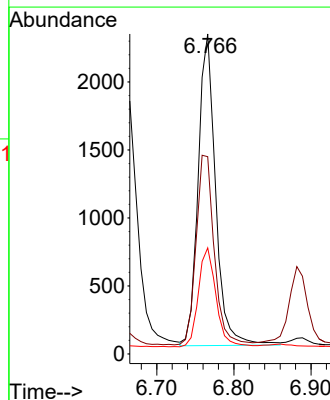
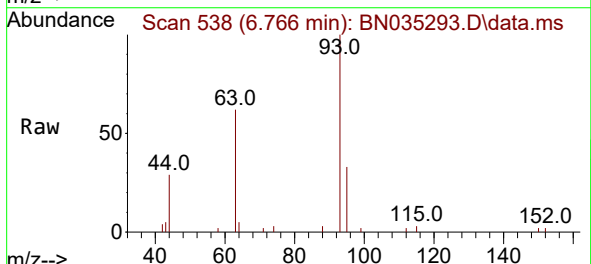
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDCCC0.4

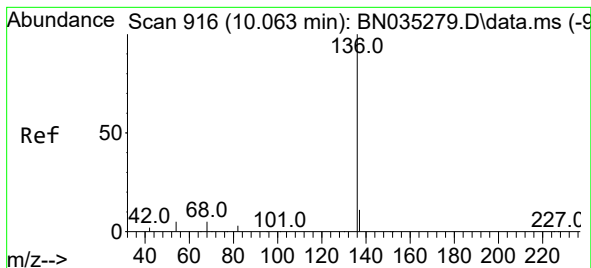
Tgt Ion: 99 Resp: 4690  
Ion Ratio Lower Upper  
99 100  
42 13.7 12.8 19.2  
71 35.0 31.4 47.2



#6  
bis(2-Chloroethyl)ether  
Concen: 0.436 ng  
RT: 6.766 min Scan# 538  
Delta R.T. -0.000 min  
Lab File: BN035293.D  
Acq: 25 Nov 2024 23:02

Tgt Ion: 93 Resp: 3610  
Ion Ratio Lower Upper  
93 100  
63 63.1 52.3 78.5  
95 31.8 25.5 38.3





#7

Naphthalene-d8

Concen: 0.400 ng

RT: 10.063 min Scan# 916

Delta R.T. -0.000 min

Lab File: BN035293.D

Acq: 25 Nov 2024 23:02

Instrument :

BNA\_N

ClientSampleId :

SSTDCCC0.4

Tgt Ion:136 Resp: 9273

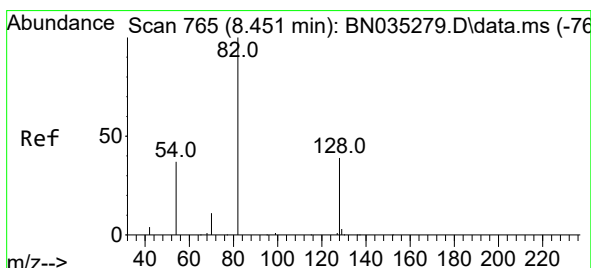
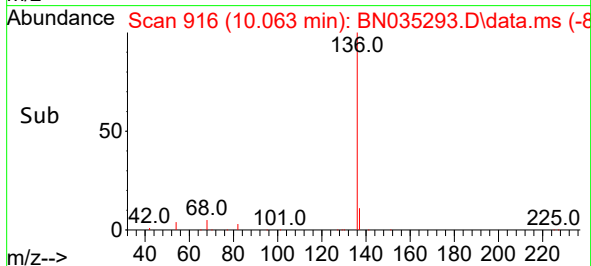
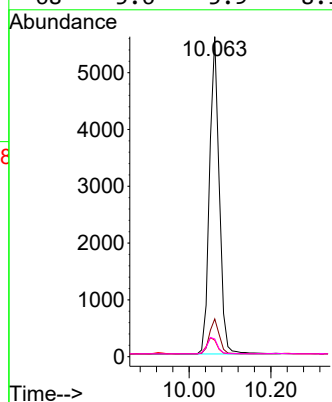
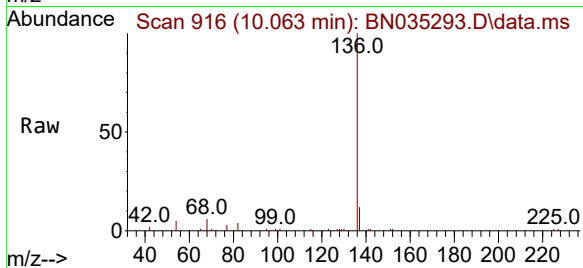
Ion Ratio Lower Upper

136 100

137 11.8 9.7 14.5

54 5.2 5.3 7.9#

68 5.6 5.9 8.9#



#8

Nitrobenzene-d5

Concen: 0.265 ng

RT: 8.450 min Scan# 765

Delta R.T. -0.000 min

Lab File: BN035293.D

Acq: 25 Nov 2024 23:02

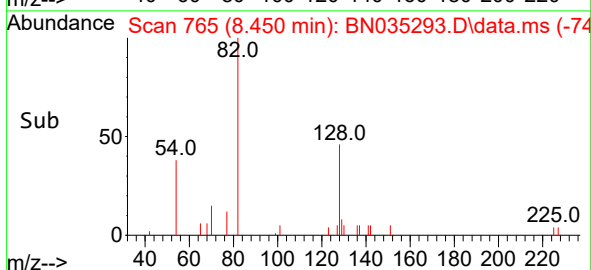
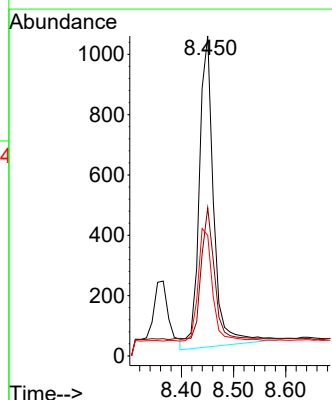
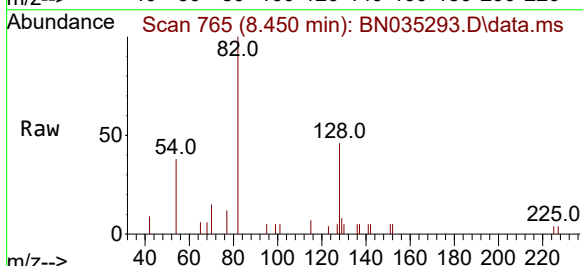
Tgt Ion: 82 Resp: 1996

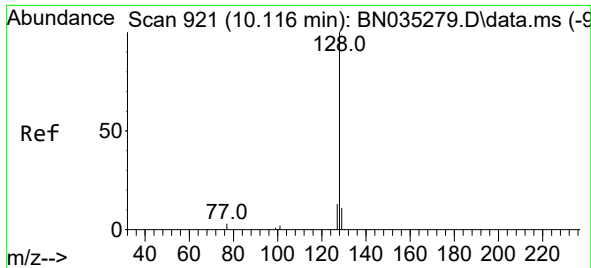
Ion Ratio Lower Upper

82 100

128 46.3 33.0 49.4

54 37.7 33.3 49.9

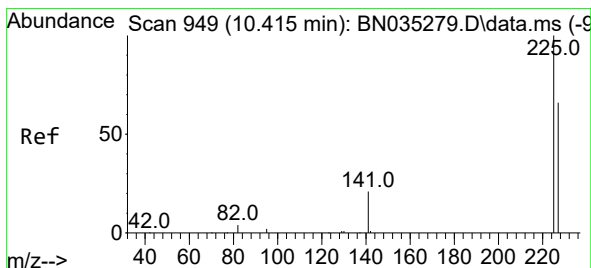
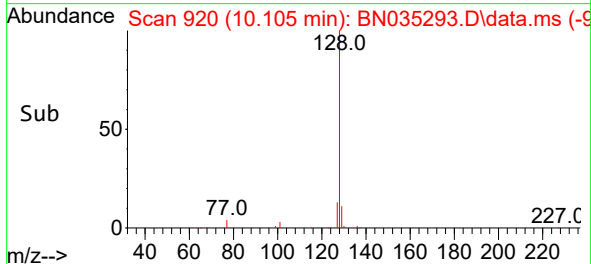
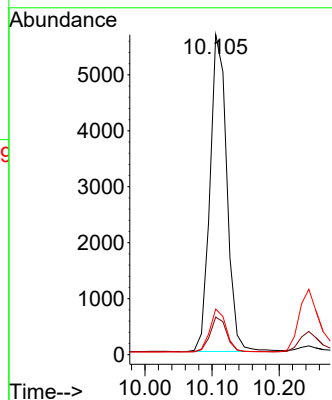
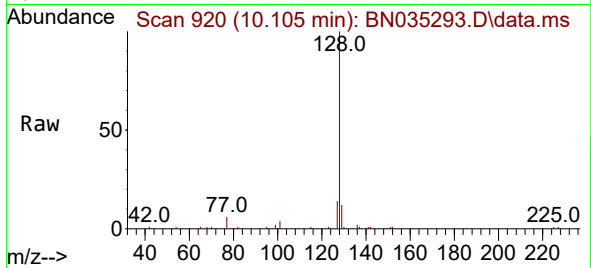




#9  
Naphthalene  
Concen: 0.385 ng  
RT: 10.105 min Scan# 911  
Delta R.T. -0.011 min  
Lab File: BN035293.D  
Acq: 25 Nov 2024 23:02

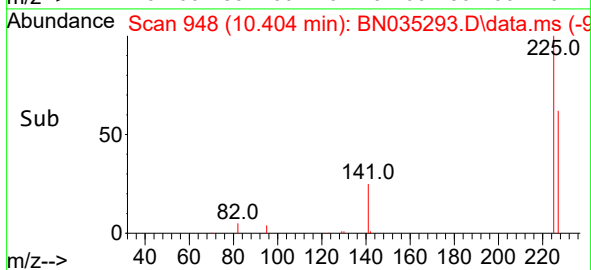
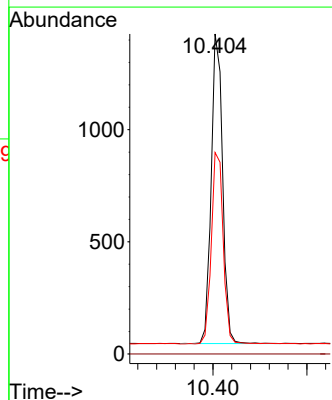
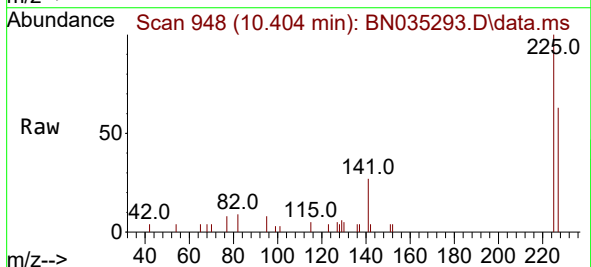
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDCCC0.4

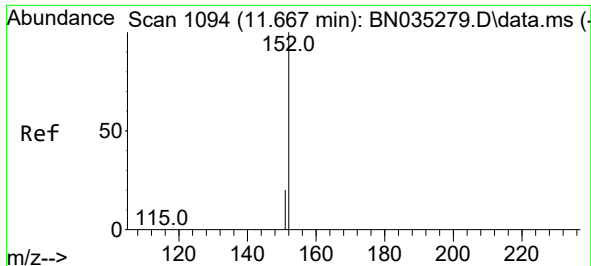
Tgt Ion:128 Resp: 9911  
Ion Ratio Lower Upper  
128 100  
129 11.7 9.6 14.4  
127 14.2 11.3 16.9



#10  
Hexachlorobutadiene  
Concen: 0.321 ng  
RT: 10.404 min Scan# 948  
Delta R.T. -0.011 min  
Lab File: BN035293.D  
Acq: 25 Nov 2024 23:02

Tgt Ion:225 Resp: 2320  
Ion Ratio Lower Upper  
225 100  
223 0.0 0.0 0.0  
227 64.5 51.3 76.9





#11

2-Methylnaphthalene-d10

Concen: 0.422 ng

RT: 11.663 min Scan# 1093

Delta R.T. -0.004 min

Lab File: BN035293.D

Acq: 25 Nov 2024 23:02

Instrument :

BNA\_N

ClientSampleId :

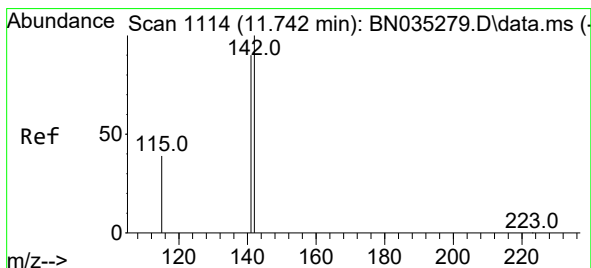
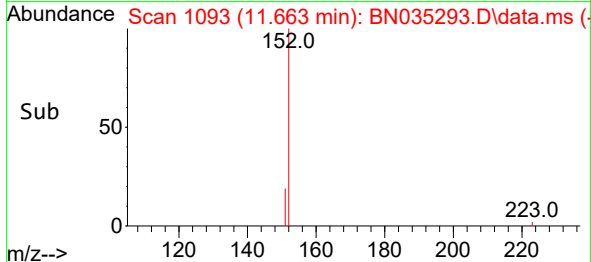
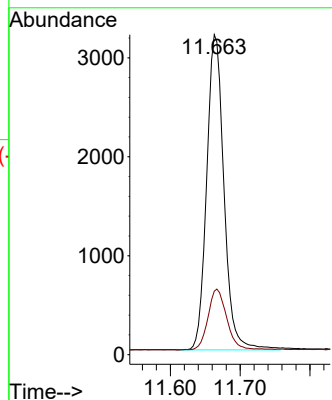
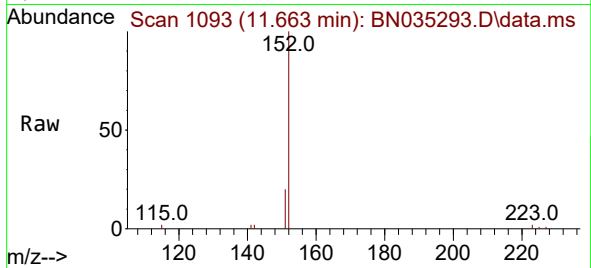
SSTDCCC0.4

Tgt Ion:152 Resp: 5475

Ion Ratio Lower Upper

152 100

151 20.9 17.2 25.8



#12

2-Methylnaphthalene

Concen: 0.402 ng

RT: 11.742 min Scan# 1114

Delta R.T. 0.000 min

Lab File: BN035293.D

Acq: 25 Nov 2024 23:02

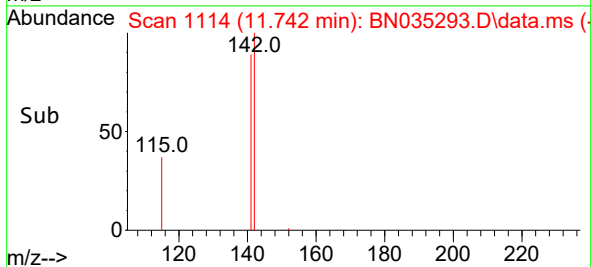
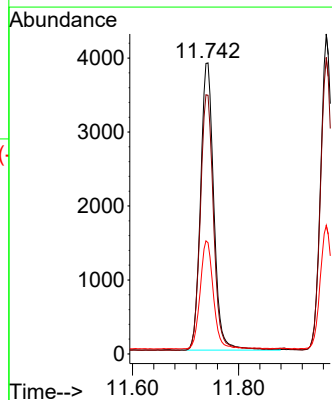
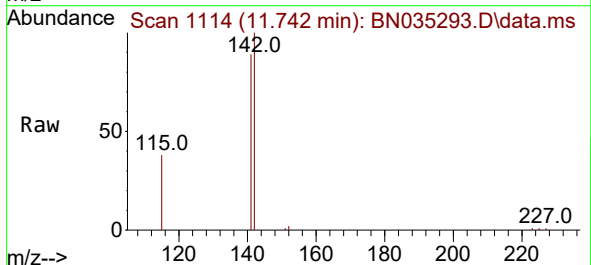
Tgt Ion:142 Resp: 6764

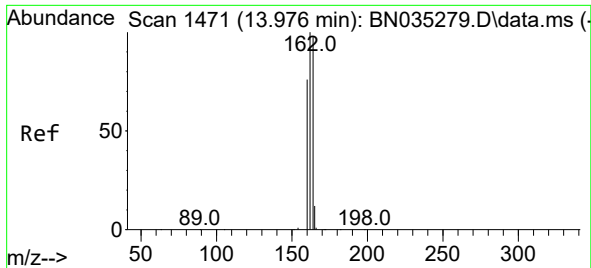
Ion Ratio Lower Upper

142 100

141 88.9 71.8 107.8

115 38.2 32.6 49.0

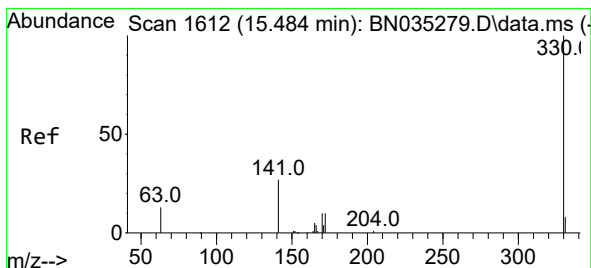
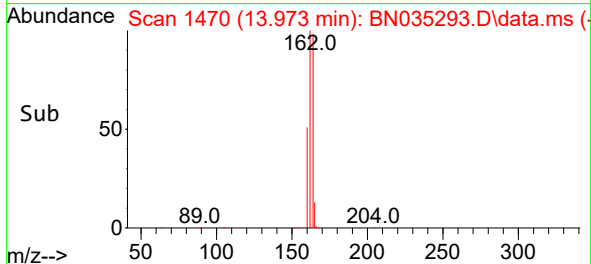
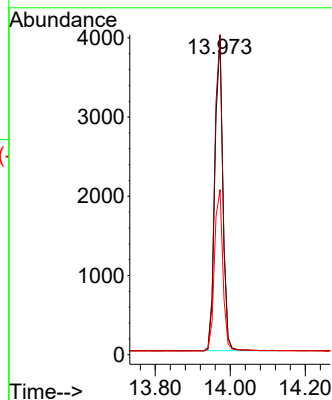
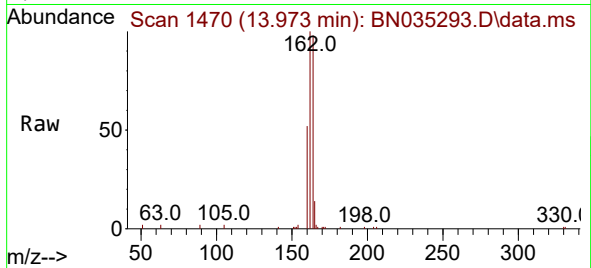




#13  
 Acenaphthene-d10  
 Concen: 0.400 ng  
 RT: 13.973 min Scan# 14  
 Delta R.T. -0.004 min  
 Lab File: BN035293.D  
 Acq: 25 Nov 2024 23:02

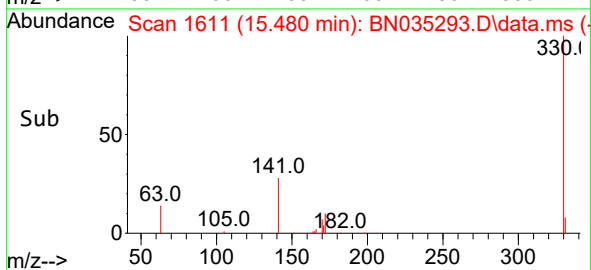
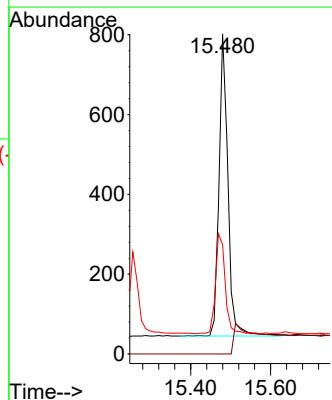
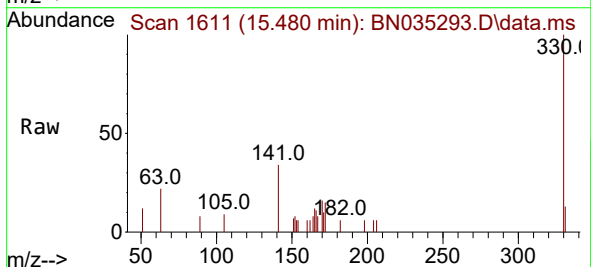
Instrument :  
 BNA\_N  
 ClientSampleId :  
 SSTDCCC0.4

Tgt Ion:164 Resp: 5865  
 Ion Ratio Lower Upper  
 164 100  
 162 101.6 82.0 123.0  
 160 52.4 63.0 94.4#

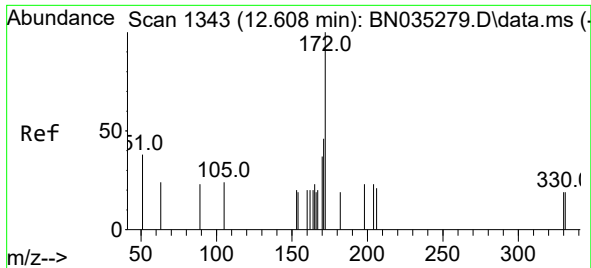


#14  
 2,4,6-Tribromophenol  
 Concen: 0.416 ng  
 RT: 15.480 min Scan# 1611  
 Delta R.T. -0.004 min  
 Lab File: BN035293.D  
 Acq: 25 Nov 2024 23:02

Tgt Ion:330 Resp: 1245  
 Ion Ratio Lower Upper  
 330 100  
 332 0.0 0.0 0.0  
 141 36.1 32.4 48.6



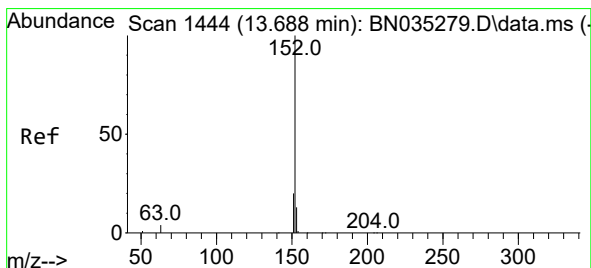
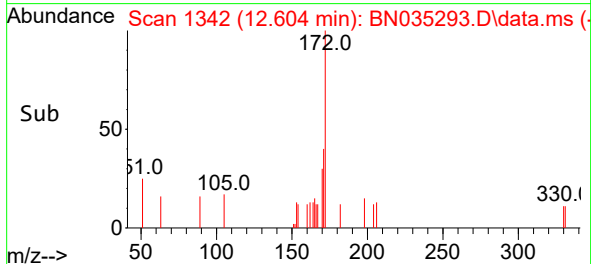
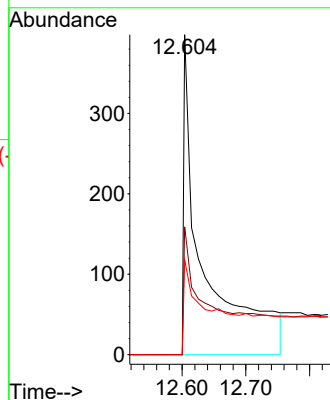
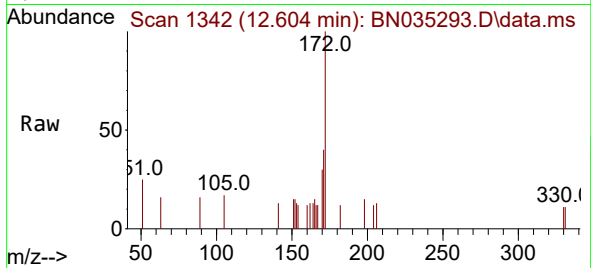




#15  
2-Fluorobiphenyl  
Concen: 0.263 ng  
RT: 12.604 min Scan# 11  
Delta R.T. -0.004 min  
Lab File: BN035293.D  
Acq: 25 Nov 2024 23:02

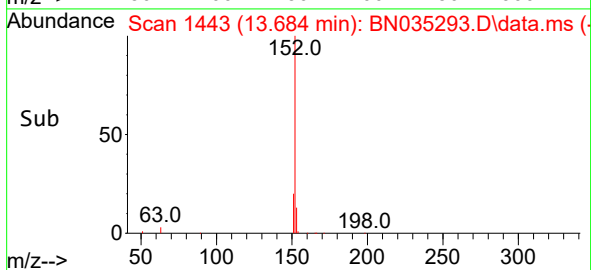
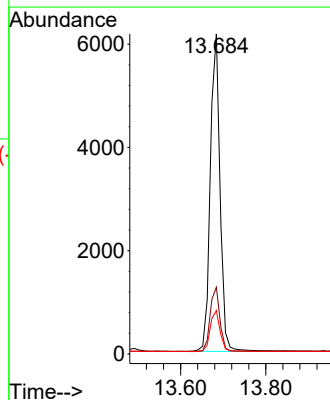
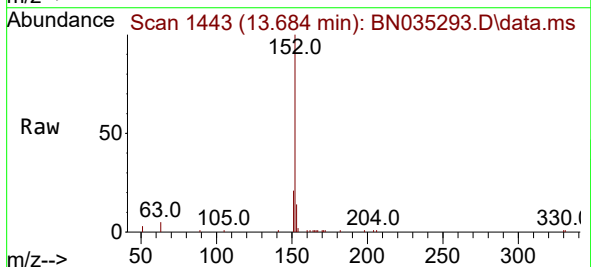
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDCCC0.4

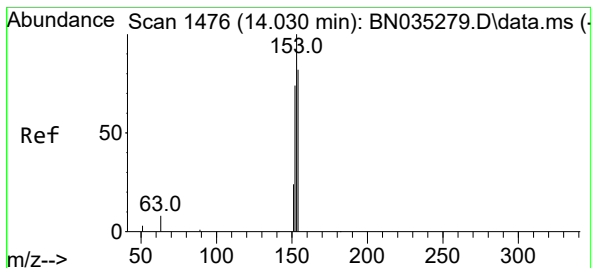
Tgt Ion:172 Resp: 851  
Ion Ratio Lower Upper  
172 100  
171 39.9 36.6 55.0  
170 29.6 29.7 44.5#



#16  
Acenaphthylene  
Concen: 0.329 ng  
RT: 13.684 min Scan# 1443  
Delta R.T. -0.004 min  
Lab File: BN035293.D  
Acq: 25 Nov 2024 23:02

Tgt Ion:152 Resp: 9720  
Ion Ratio Lower Upper  
152 100  
151 20.1 15.9 23.9  
153 13.1 10.2 15.4





#17

Acenaphthene

Concen: 0.352 ng

RT: 14.037 min Scan# 1476

Delta R.T. 0.007 min

Lab File: BN035293.D

Acq: 25 Nov 2024 23:02

Instrument :

BNA\_N

ClientSampleId :

SSTDCCC0.4

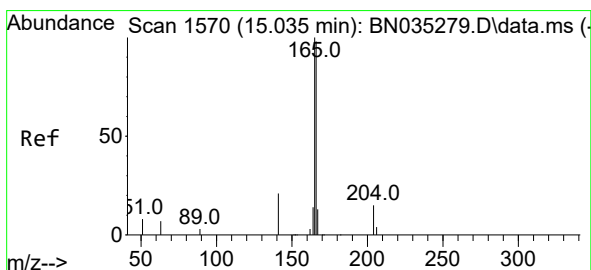
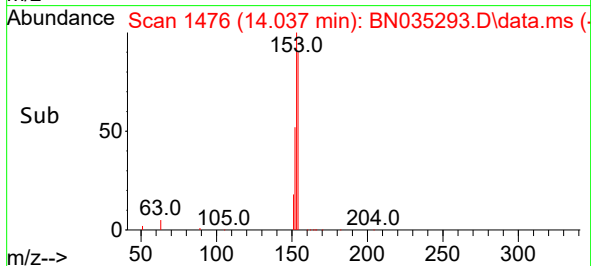
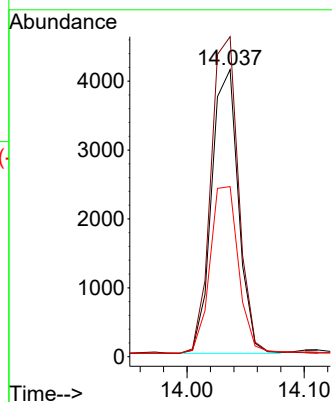
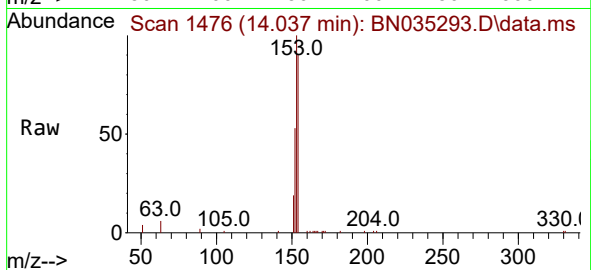
Tgt Ion:154 Resp: 6539

Ion Ratio Lower Upper

154 100

153 115.4 96.1 144.1

152 63.2 72.2 108.2#



#18

Fluorene

Concen: 0.337 ng

RT: 15.031 min Scan# 1569

Delta R.T. -0.004 min

Lab File: BN035293.D

Acq: 25 Nov 2024 23:02

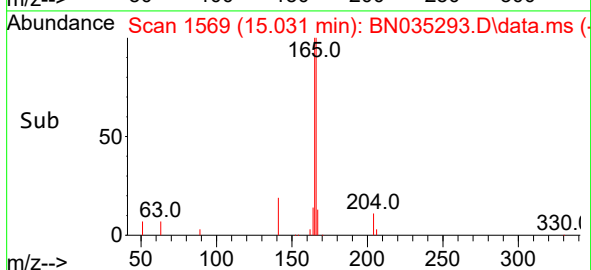
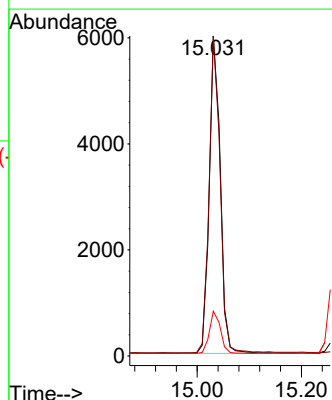
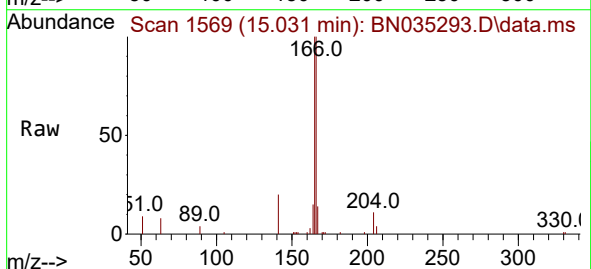
Tgt Ion:166 Resp: 8779

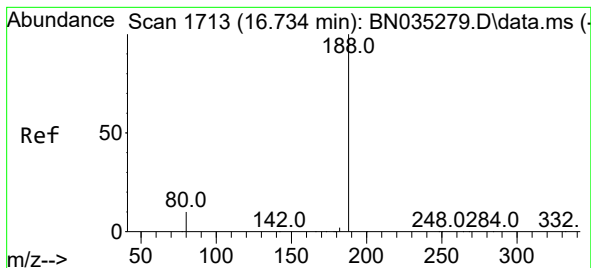
Ion Ratio Lower Upper

166 100

165 98.8 81.2 121.8

167 13.3 10.5 15.7





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 16.741 min Scan# 11

Delta R.T. 0.007 min

Lab File: BN035293.D

Acq: 25 Nov 2024 23:02

Instrument :

BNA\_N

ClientSampleId :

SSTDCCC0.4

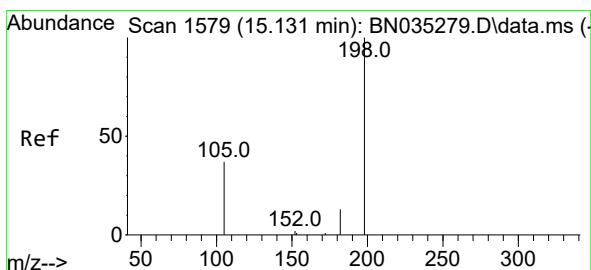
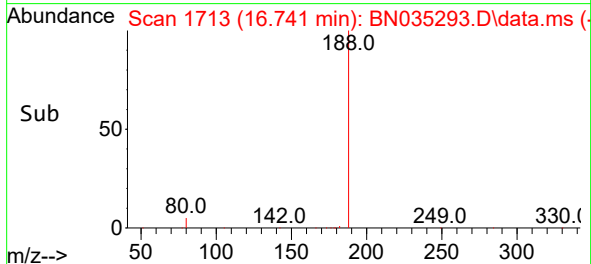
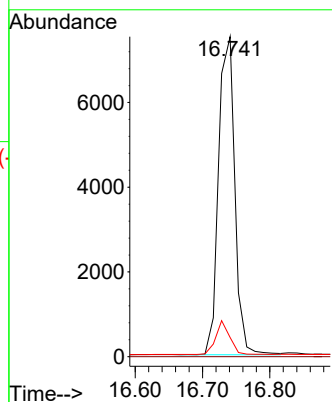
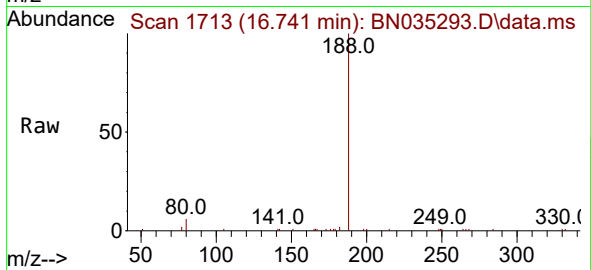
Tgt Ion:188 Resp: 12563

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 6.0 8.9 13.3#



#20

4,6-Dinitro-2-methylphenol

Concen: 0.392 ng

RT: 15.127 min Scan# 1578

Delta R.T. -0.004 min

Lab File: BN035293.D

Acq: 25 Nov 2024 23:02

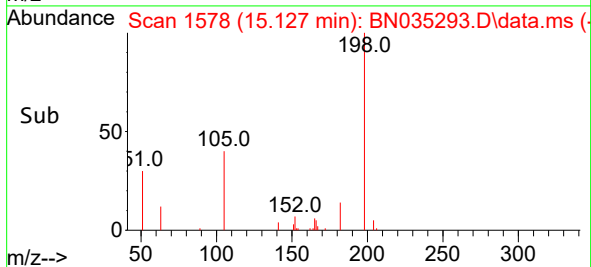
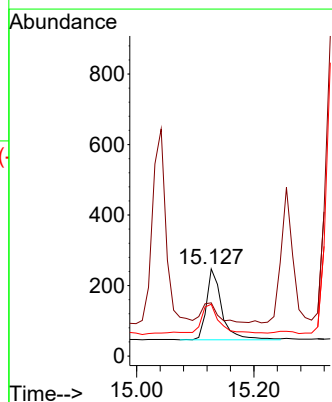
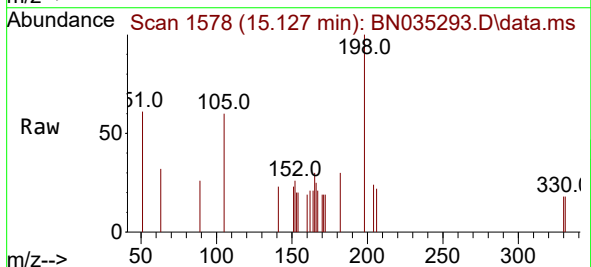
Tgt Ion:198 Resp: 368

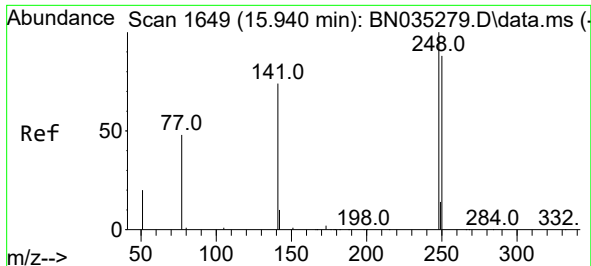
Ion Ratio Lower Upper

198 100

51 61.1 53.6 80.4

105 59.5 47.4 71.2

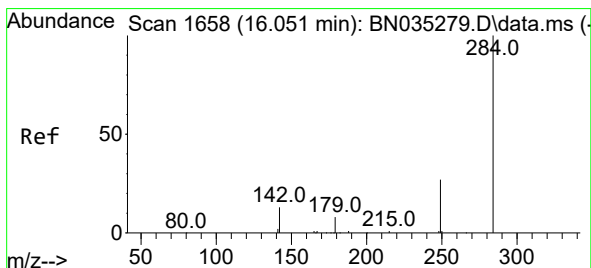
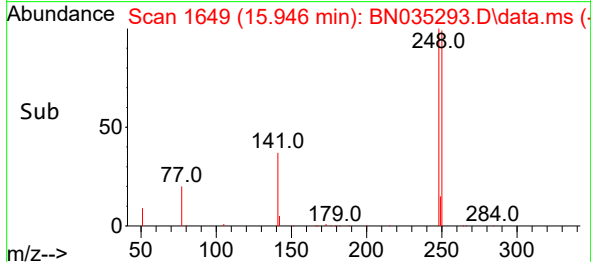
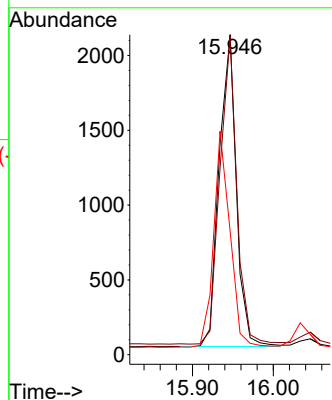
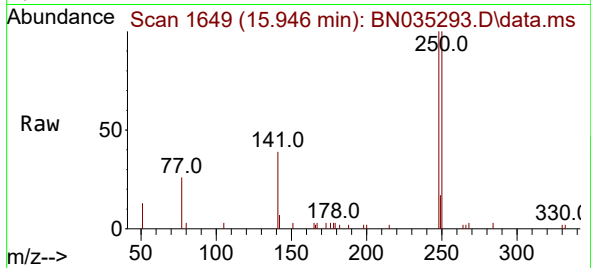




#21  
4-Bromophenyl-phenylether  
Concen: 0.387 ng  
RT: 15.946 min Scan# 1649  
Delta R.T. 0.006 min  
Lab File: BN035293.D  
Acq: 25 Nov 2024 23:02

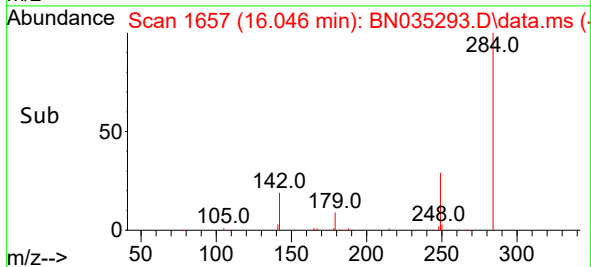
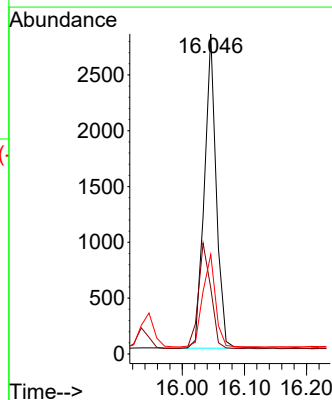
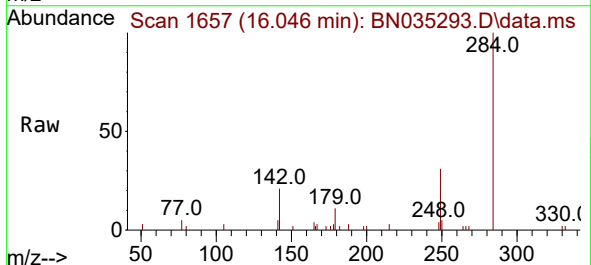
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDCCC0.4

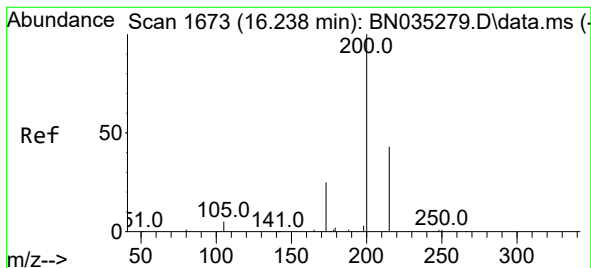
Tgt Ion:248 Resp: 3083  
Ion Ratio Lower Upper  
248 100  
250 99.6 74.8 112.2  
141 38.7 59.0 88.4#



#22  
Hexachlorobenzene  
Concen: 0.330 ng  
RT: 16.046 min Scan# 1657  
Delta R.T. -0.006 min  
Lab File: BN035293.D  
Acq: 25 Nov 2024 23:02

Tgt Ion:284 Resp: 3763  
Ion Ratio Lower Upper  
284 100  
142 35.3 28.7 43.1  
249 31.5 25.4 38.0





#23

Atrazine

Concen: 0.425 ng

RT: 16.232 min Scan# 1672

Delta R.T. -0.006 min

Lab File: BN035293.D

Acq: 25 Nov 2024 23:02

Instrument :

BNA\_N

ClientSampleId :

SSTDCCC0.4

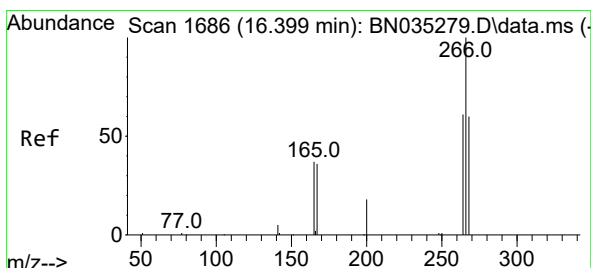
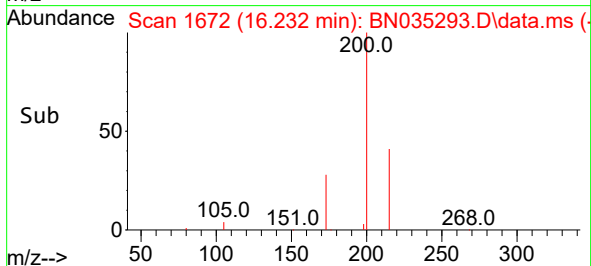
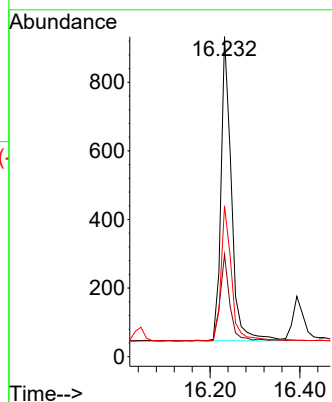
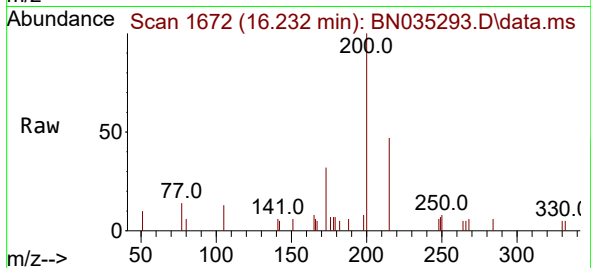
Tgt Ion:200 Resp: 1428

Ion Ratio Lower Upper

200 100

173 31.9 25.8 38.8

215 47.2 38.6 58.0



#24

Pentachlorophenol

Concen: 0.417 ng

RT: 16.393 min Scan# 1685

Delta R.T. -0.006 min

Lab File: BN035293.D

Acq: 25 Nov 2024 23:02

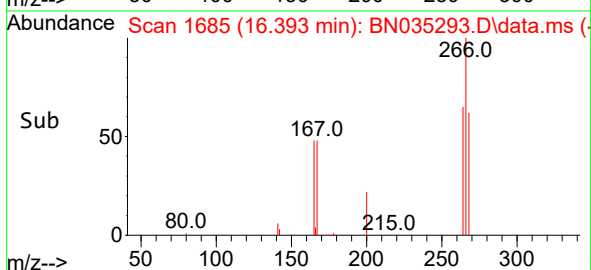
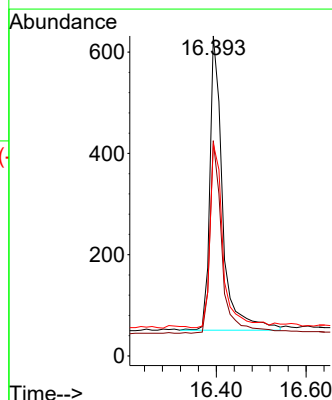
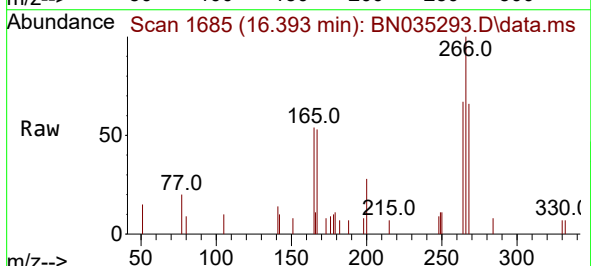
Tgt Ion:266 Resp: 1142

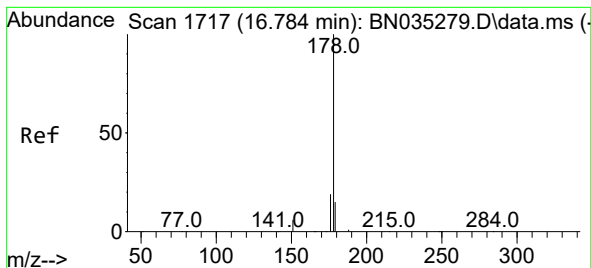
Ion Ratio Lower Upper

266 100

264 62.2 49.3 73.9

268 63.6 48.6 73.0





#25

Phenanthrene

Concen: 0.356 ng

RT: 16.778 min Scan# 1716

Delta R.T. -0.006 min

Lab File: BN035293.D

Acq: 25 Nov 2024 23:02

Instrument :

BNA\_N

ClientSampleId :

SSTDCCC0.4

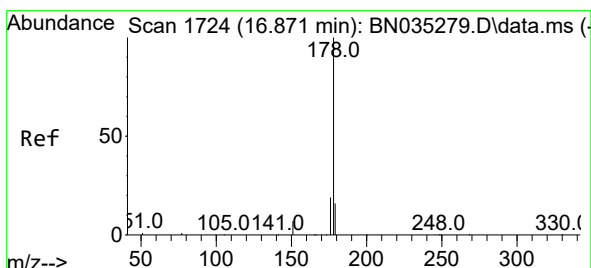
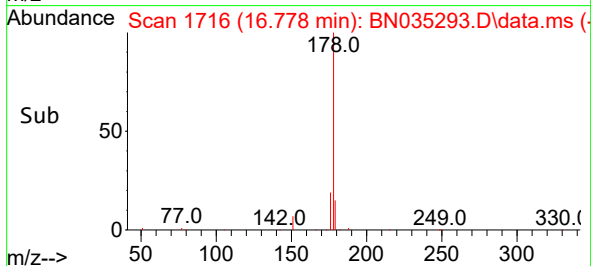
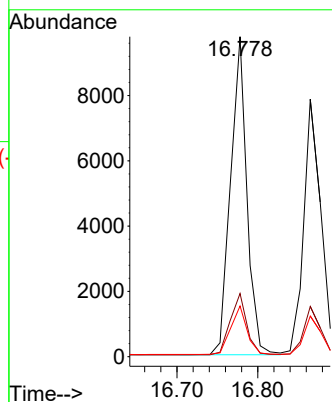
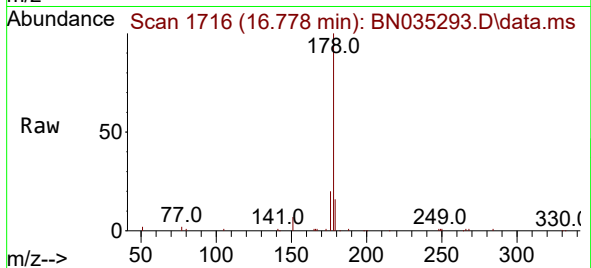
Tgt Ion:178 Resp: 13726

Ion Ratio Lower Upper

178 100

176 19.4 15.4 23.0

179 15.5 12.6 18.8



#26

Anthracene

Concen: 0.359 ng

RT: 16.865 min Scan# 1723

Delta R.T. -0.006 min

Lab File: BN035293.D

Acq: 25 Nov 2024 23:02

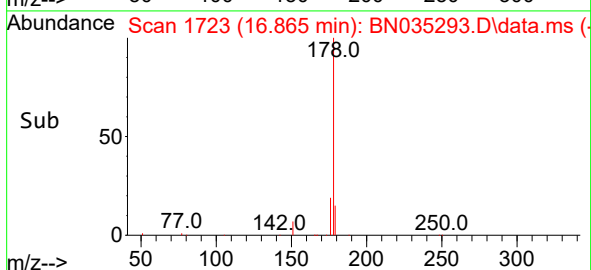
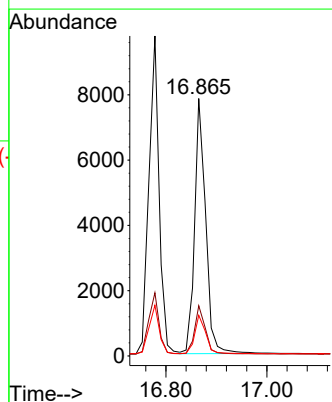
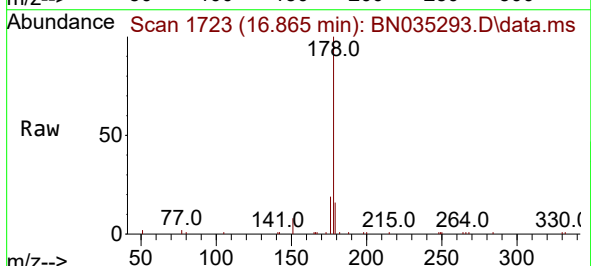
Tgt Ion:178 Resp: 11907

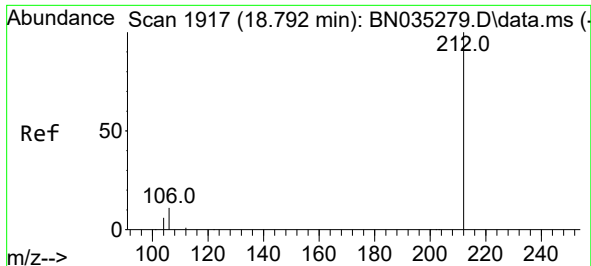
Ion Ratio Lower Upper

178 100

176 18.7 15.0 22.4

179 15.1 12.4 18.6

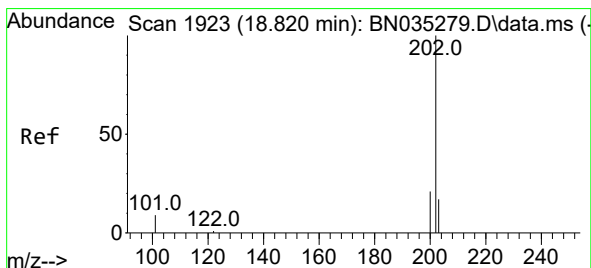
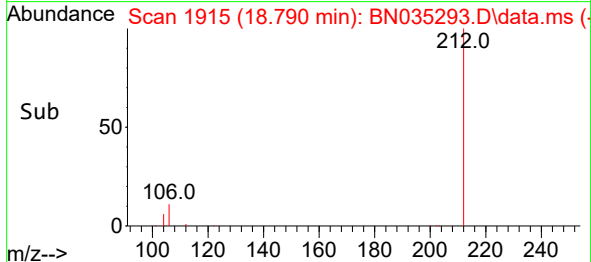
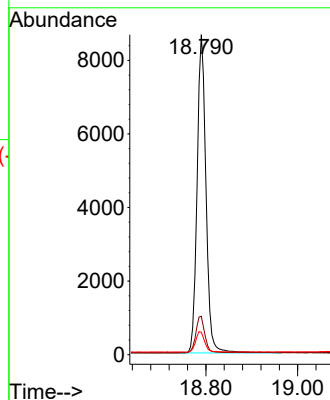
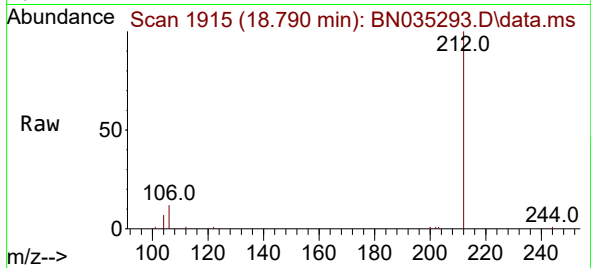




#27  
Fluoranthene-d10  
Concen: 0.345 ng  
RT: 18.790 min Scan# 1917  
Delta R.T. -0.002 min  
Lab File: BN035293.D  
Acq: 25 Nov 2024 23:02

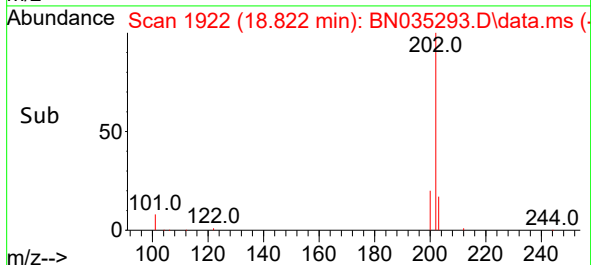
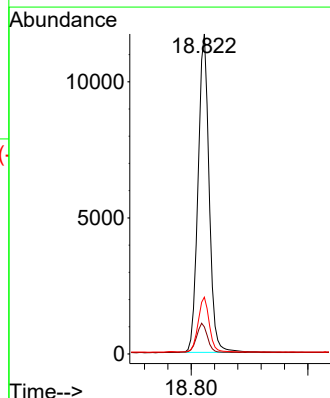
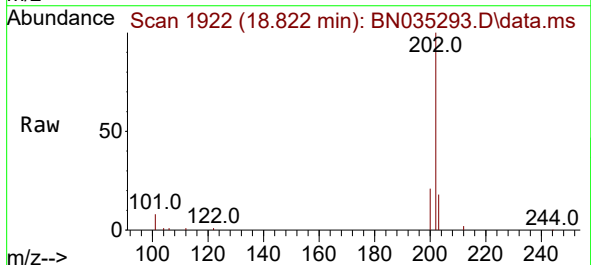
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDCCC0.4

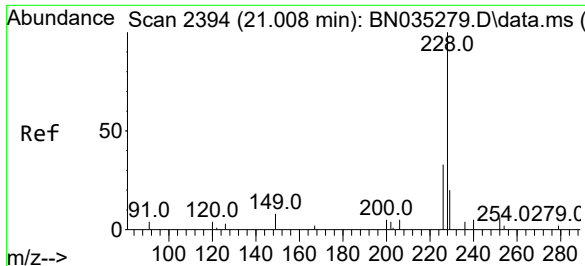
Tgt Ion:212 Resp: 11601  
Ion Ratio Lower Upper  
212 100  
106 11.6 9.8 14.8  
104 6.6 5.6 8.4



#28  
Fluoranthene  
Concen: 0.317 ng  
RT: 18.822 min Scan# 1922  
Delta R.T. 0.002 min  
Lab File: BN035293.D  
Acq: 25 Nov 2024 23:02

Tgt Ion:202 Resp: 15419  
Ion Ratio Lower Upper  
202 100  
101 9.4 7.6 11.4  
203 17.1 13.8 20.8





#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.006 min Scan# 21

Delta R.T. -0.002 min

Lab File: BN035293.D

Acq: 25 Nov 2024 23:02

Instrument :

BNA\_N

ClientSampleId :

SSTDCCC0.4

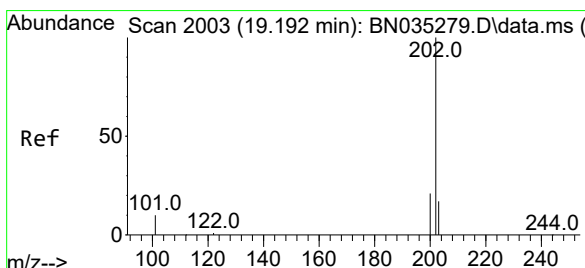
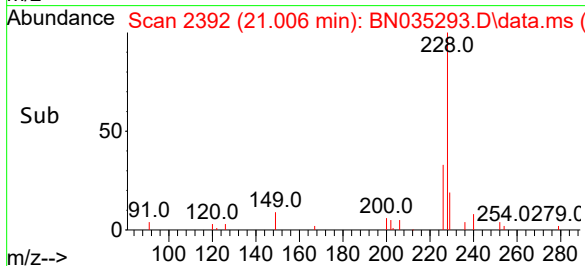
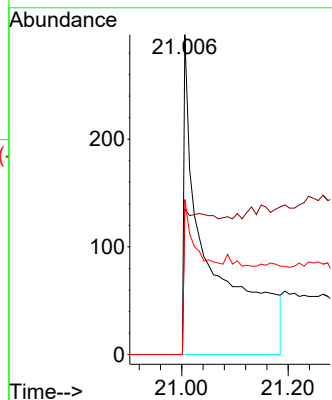
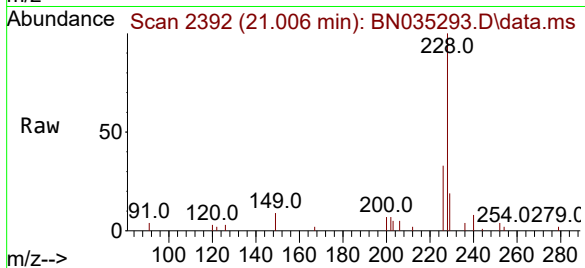
Tgt Ion:240 Resp: 932

Ion Ratio Lower Upper

240 100

120 45.5 54.9 82.3#

236 48.5 54.0 81.0#



#30

Pyrene

Concen: 0.441 ng

RT: 19.189 min Scan# 2001

Delta R.T. -0.003 min

Lab File: BN035293.D

Acq: 25 Nov 2024 23:02

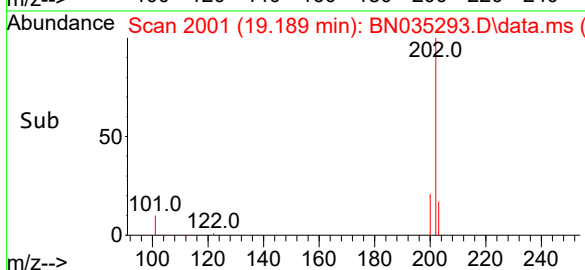
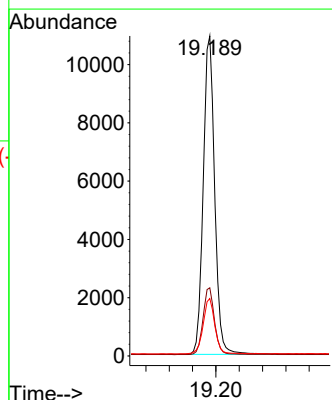
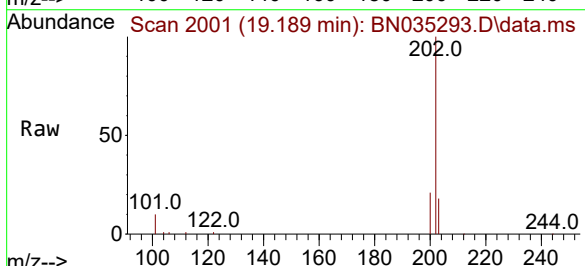
Tgt Ion:202 Resp: 14952

Ion Ratio Lower Upper

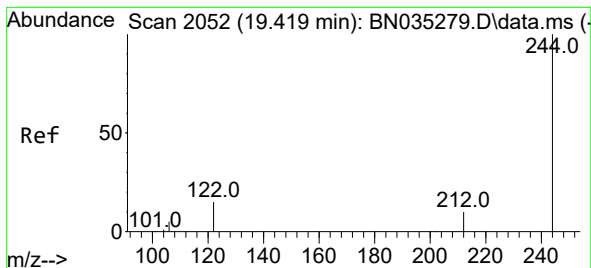
202 100

200 21.0 16.8 25.2

203 17.7 14.4 21.6







#31

Terphenyl-d14

Concen: 0.453 ng

RT: 19.422 min Scan# 2052

Delta R.T. 0.003 min

Lab File: BN035293.D

Acq: 25 Nov 2024 23:02

Instrument :

BNA\_N

ClientSampleId :

SSTDCCC0.4

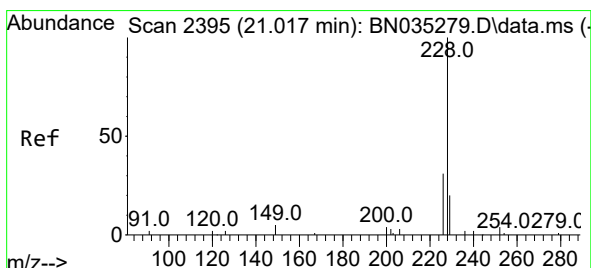
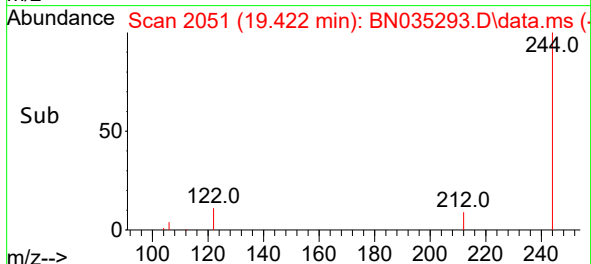
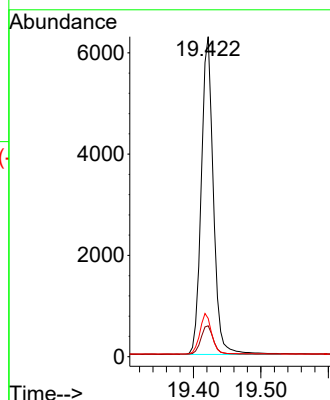
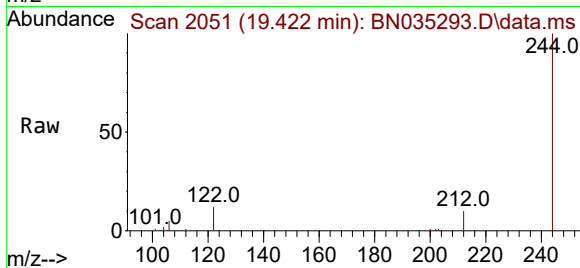
Tgt Ion:244 Resp: 7795

Ion Ratio Lower Upper

244 100

212 9.6 9.4 14.0

122 12.0 13.0 19.4#



#32

Benzo(a)anthracene

Concen: 0.346 ng

RT: 21.015 min Scan# 2393

Delta R.T. -0.002 min

Lab File: BN035293.D

Acq: 25 Nov 2024 23:02

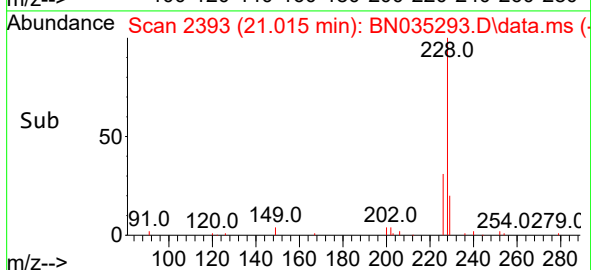
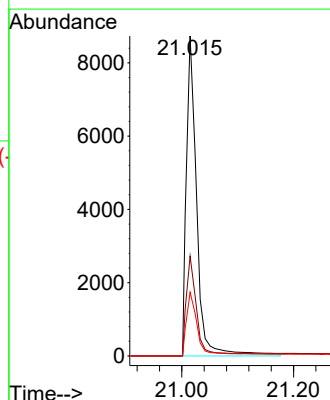
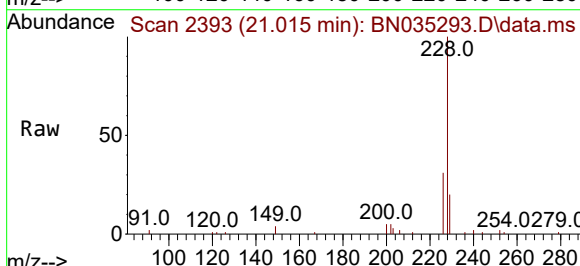
Tgt Ion:228 Resp: 11234

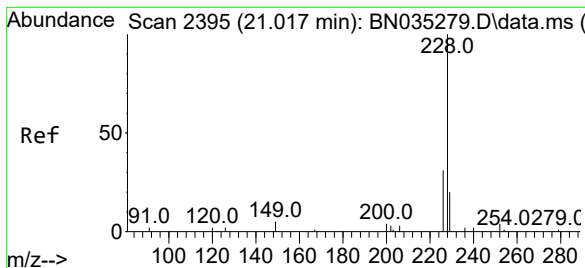
Ion Ratio Lower Upper

228 100

226 31.2 24.7 37.1

229 19.9 16.2 24.2





#33

Chrysene

Concen: 0.346 ng

RT: 21.015 min Scan# 21

Delta R.T. -0.002 min

Lab File: BN035293.D

Acq: 25 Nov 2024 23:02

Instrument :

BNA\_N

ClientSampleId :

SSTDCCC0.4

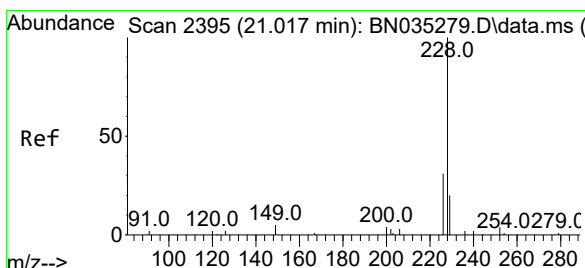
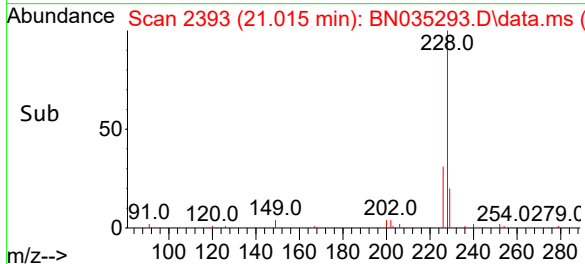
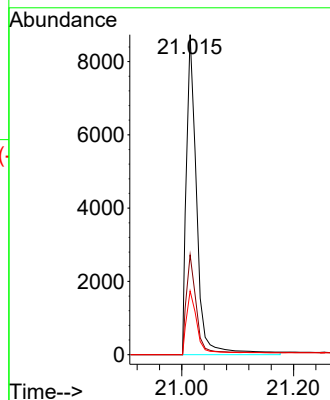
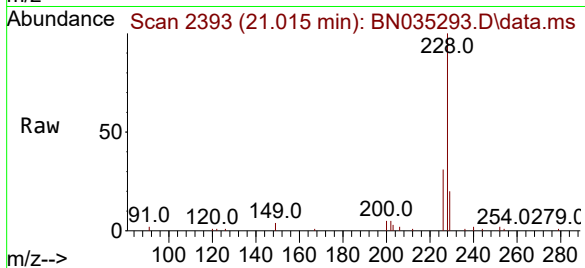
Tgt Ion:228 Resp: 11234

Ion Ratio Lower Upper

228 100

226 31.2 24.7 37.1

229 19.9 16.2 24.2



#34

Bis(2-ethylhexyl)phthalate

Concen: 0.233 ng

RT: 21.006 min Scan# 2392

Delta R.T. -0.011 min

Lab File: BN035293.D

Acq: 25 Nov 2024 23:02

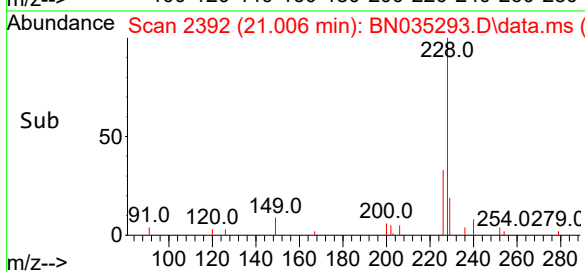
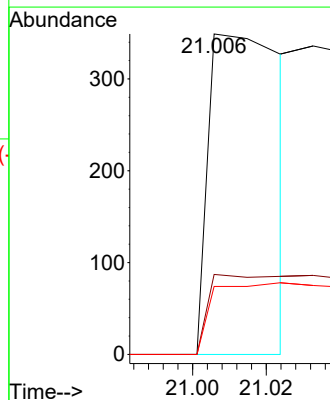
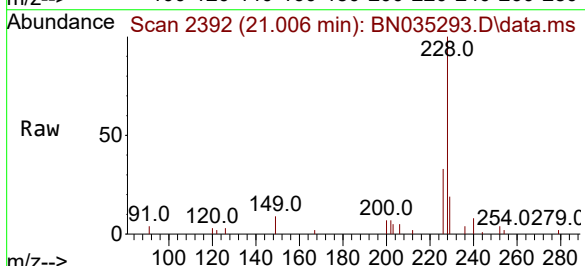
Tgt Ion:149 Resp: 416

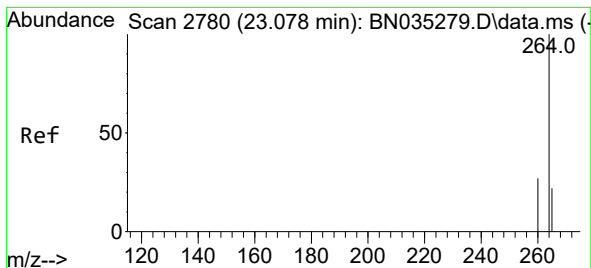
Ion Ratio Lower Upper

149 100

167 77.9 0.0 0.0#

279 31.5 13.0 19.6#





#35

Perylene-d12

Concen: 0.400 ng

RT: 23.078 min Scan# 21

Delta R.T. 0.000 min

Lab File: BN035293.D

Acq: 25 Nov 2024 23:02

Instrument :

BNA\_N

ClientSampleId :

SSTDCCC0.4

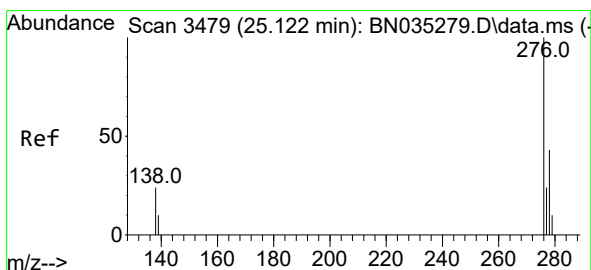
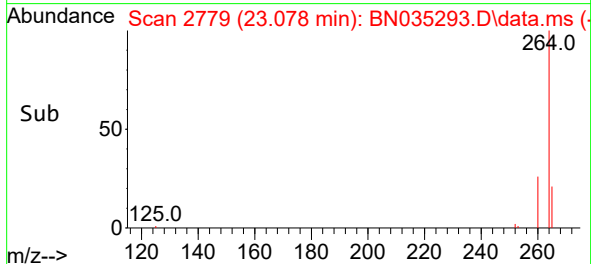
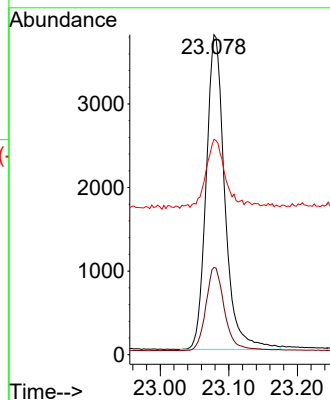
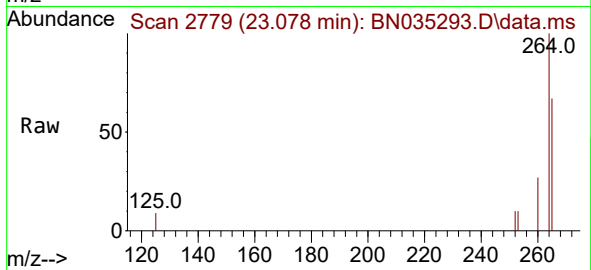
Tgt Ion:264 Resp: 7119

Ion Ratio Lower Upper

264 100

260 27.3 22.3 33.5

265 67.3 68.6 103.0#



#36

Indeno(1,2,3-cd)pyrene

Concen: 0.385 ng

RT: 25.119 min Scan# 3477

Delta R.T. -0.002 min

Lab File: BN035293.D

Acq: 25 Nov 2024 23:02

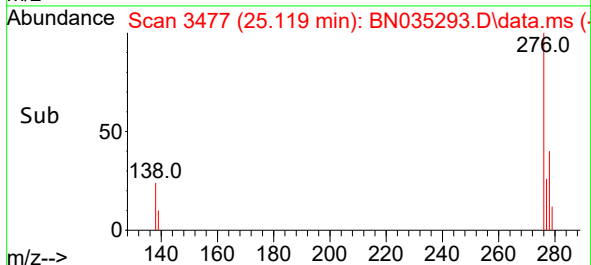
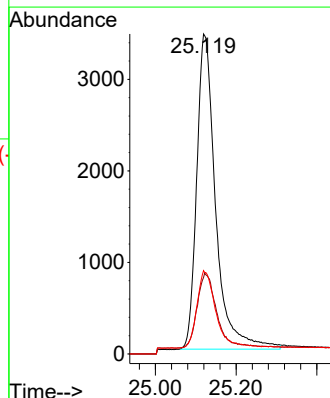
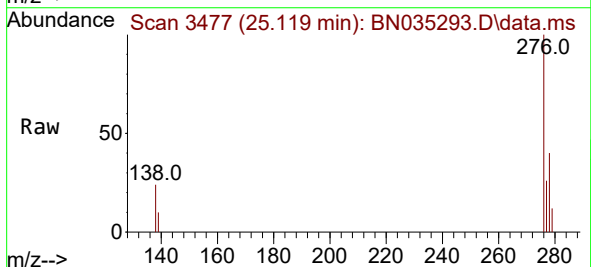
Tgt Ion:276 Resp: 11225

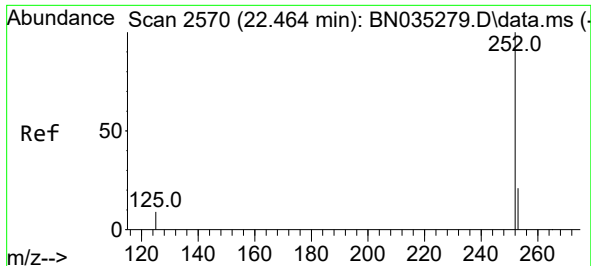
Ion Ratio Lower Upper

276 100

138 23.2 18.8 28.2

277 23.8 18.2 27.4

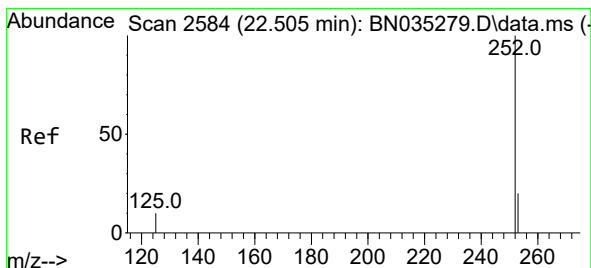
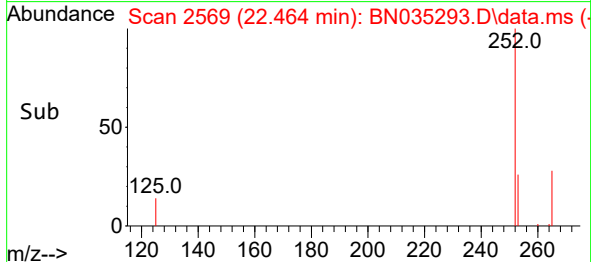
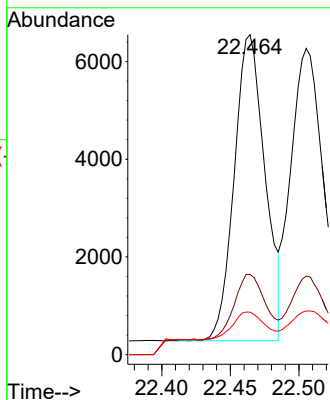
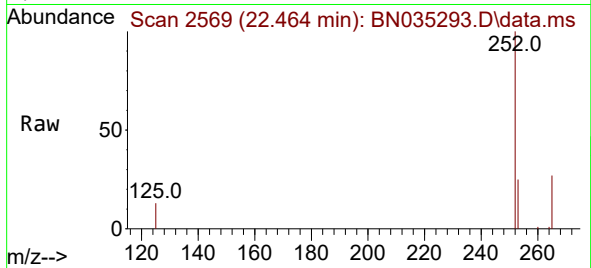




#37  
Benzo(b)fluoranthene  
Concen: 0.316 ng  
RT: 22.464 min Scan# 2570  
Delta R.T. 0.000 min  
Lab File: BN035293.D  
Acq: 25 Nov 2024 23:02

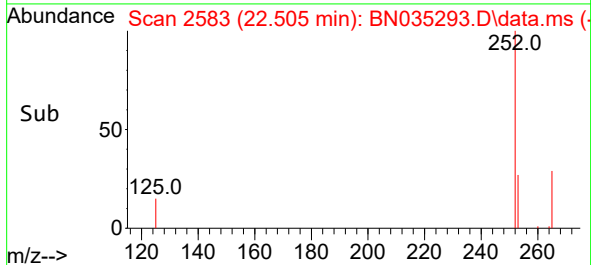
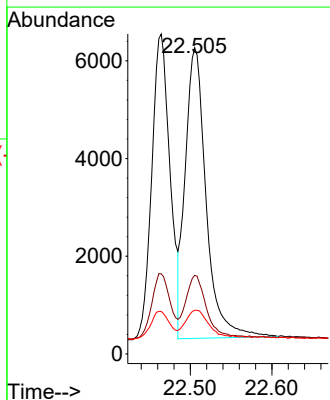
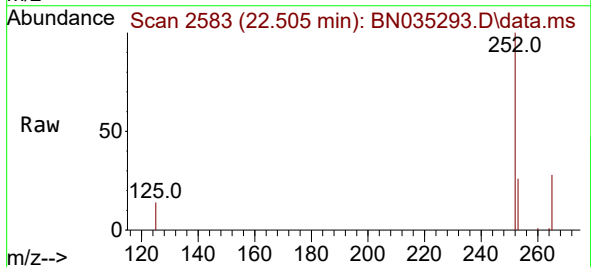
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDCCC0.4

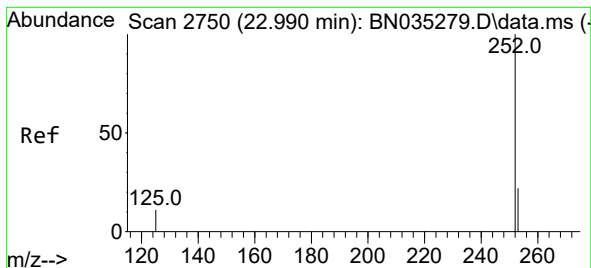
Tgt Ion:252 Resp: 9762  
Ion Ratio Lower Upper  
252 100  
253 25.0 20.2 30.2  
125 13.3 12.0 18.0



#38  
Benzo(k)fluoranthene  
Concen: 0.323 ng  
RT: 22.505 min Scan# 2583  
Delta R.T. 0.000 min  
Lab File: BN035293.D  
Acq: 25 Nov 2024 23:02

Tgt Ion:252 Resp: 10556  
Ion Ratio Lower Upper  
252 100  
253 25.7 20.1 30.1  
125 14.3 12.7 19.1





#39

Benzo(a)pyrene

Concen: 0.349 ng

RT: 22.991 min Scan# 21

Delta R.T. 0.000 min

Lab File: BN035293.D

Acq: 25 Nov 2024 23:02

Instrument :

BNA\_N

ClientSampleId :

SSTDCCC0.4

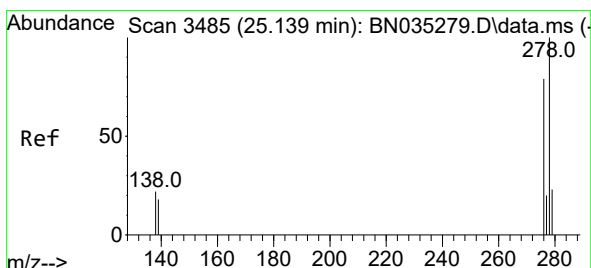
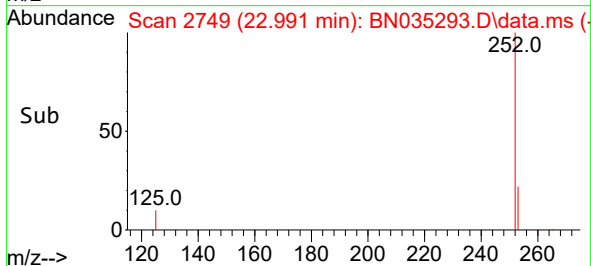
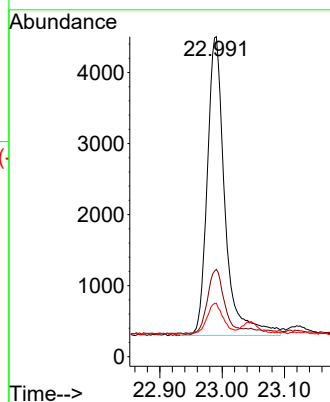
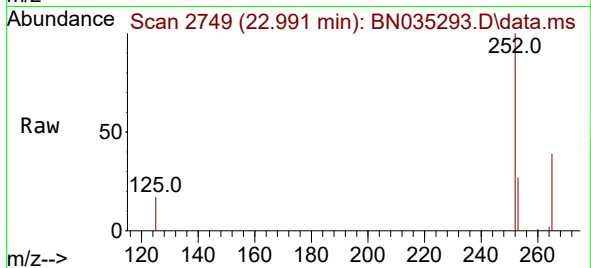
Tgt Ion:252 Resp: 8259

Ion Ratio Lower Upper

252 100

253 27.3 22.3 33.5

125 16.7 15.3 22.9



#40

Dibenzo(a,h)anthracene

Concen: 0.385 ng

RT: 25.140 min Scan# 3484

Delta R.T. 0.000 min

Lab File: BN035293.D

Acq: 25 Nov 2024 23:02

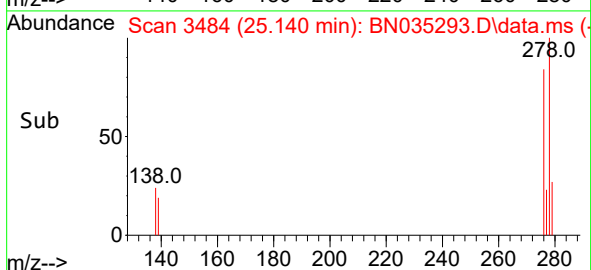
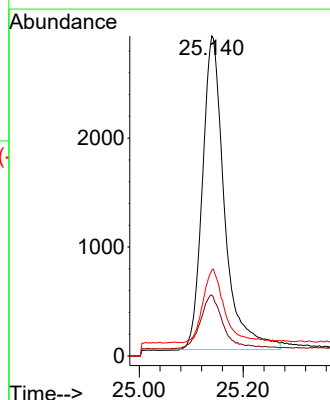
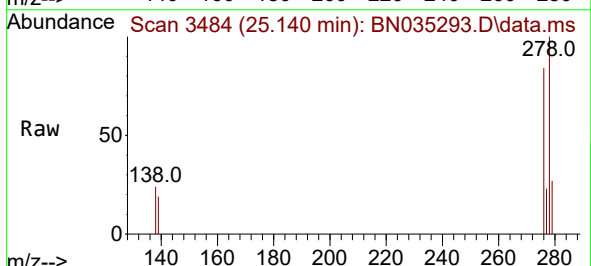
Tgt Ion:278 Resp: 8482

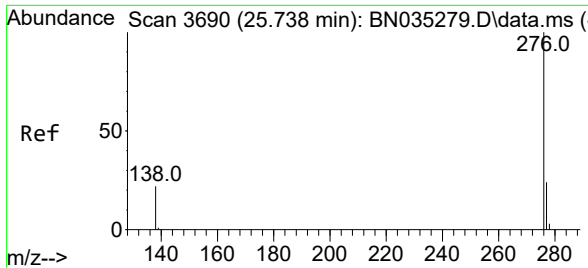
Ion Ratio Lower Upper

278 100

139 19.0 17.0 25.6

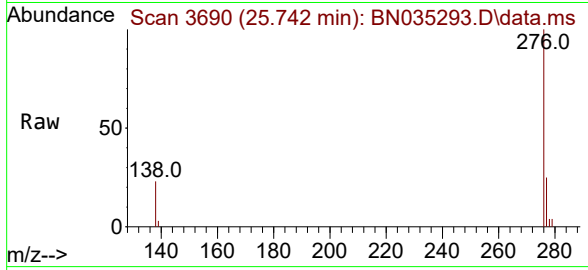
279 26.8 23.0 34.4



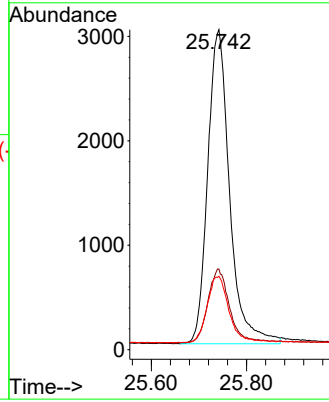
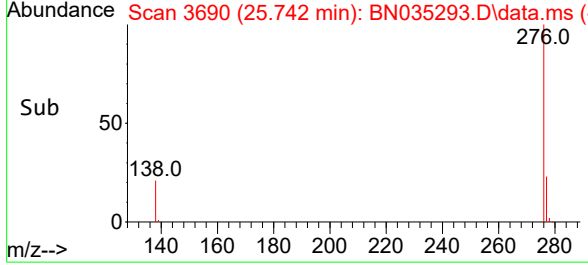


#41  
Benzo(g,h,i)perylene  
Concen: 0.377 ng  
RT: 25.742 min Scan# 30  
Delta R.T. 0.003 min  
Lab File: BN035293.D  
Acq: 25 Nov 2024 23:02

Instrument :  
BNA\_N  
ClientSampleId :  
SSTDCCC0.4



|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 276   | Resp: | 9609  |
| Ion      | Ratio | Lower | Upper |
| 276      | 100   |       |       |
| 277      | 25.2  | 21.1  | 31.7  |
| 138      | 23.0  | 19.8  | 29.8  |



Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN112524\  
 Data File : BN035297.D  
 Acq On : 26 Nov 2024 01:26  
 Operator : RC/JU  
 Sample : P4959-01  
 Misc :  
 ALS Vial : 73 Sample Multiplier: 1

Instrument :  
 BNA\_N  
 ClientSampleId :  
 RW5-SP100-20241121

Quant Time: Nov 26 02:54:43 2024  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\8270-SIM-BN112524.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Tue Nov 26 02:36:08 2024  
 Response via : Initial Calibration

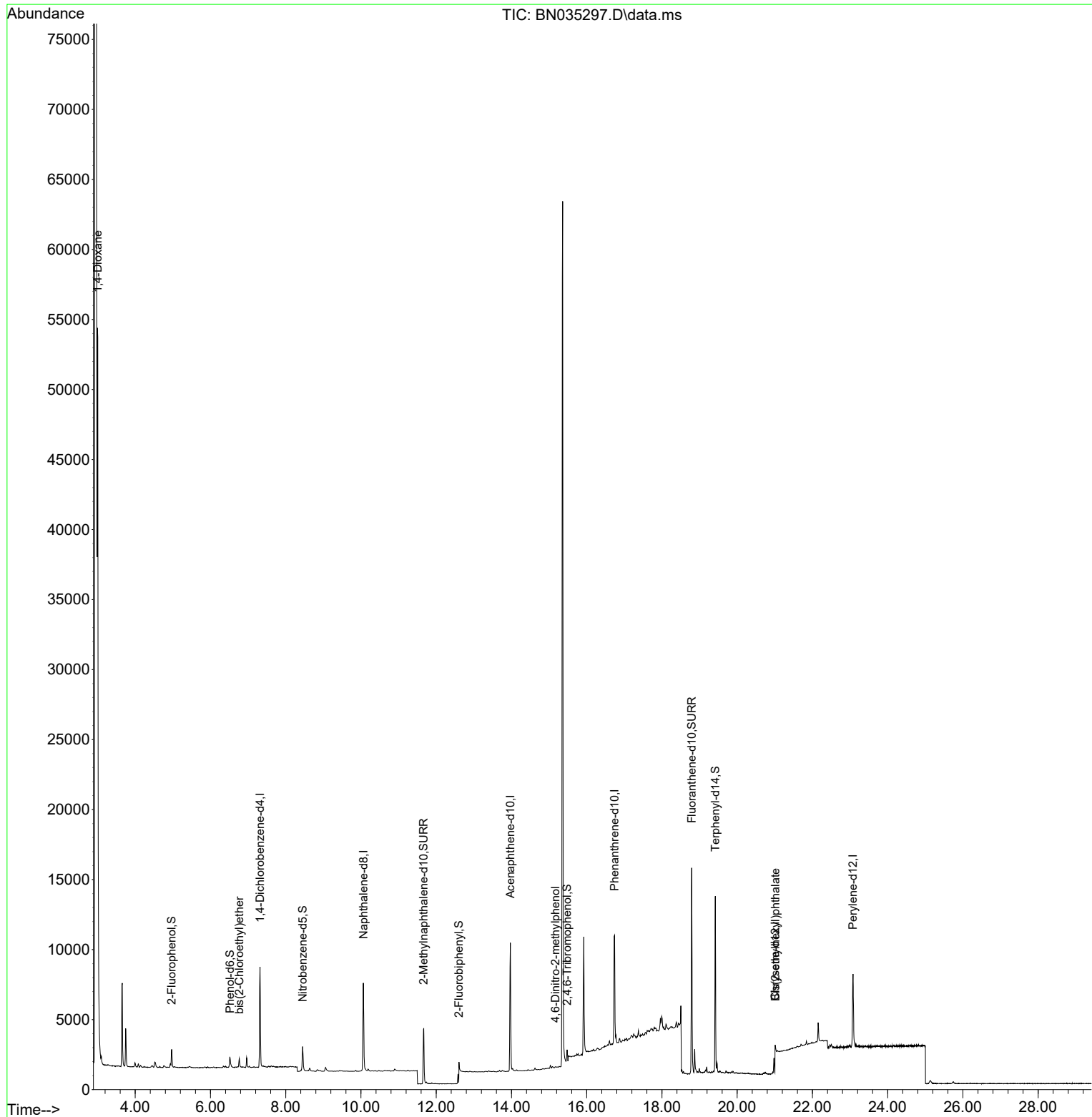
| Compound                      | R.T.   | QIon | Response | Conc   | Units | Dev(Min) |
|-------------------------------|--------|------|----------|--------|-------|----------|
| -----                         |        |      |          |        |       |          |
| Internal Standards            |        |      |          |        |       |          |
| 1) 1,4-Dichlorobenzene-d4     | 7.315  | 152  | 3474     | 0.400  | ng    | 0.00     |
| 7) Naphthalene-d8             | 10.063 | 136  | 8594     | 0.400  | ng    | # 0.00   |
| 13) Acenaphthene-d10          | 13.973 | 164  | 5314     | 0.400  | ng    | # 0.00   |
| 19) Phenanthrene-d10          | 16.741 | 188  | 12516    | 0.400  | ng    | # 0.00   |
| 29) Chrysene-d12              | 21.006 | 240  | 912      | 0.400  | ng    | # 0.00   |
| 35) Perylene-d12              | 23.078 | 264  | 6981     | 0.400  | ng    | 0.00     |
| System Monitoring Compounds   |        |      |          |        |       |          |
| 4) 2-Fluorophenol             | 4.968  | 112  | 1086     | 0.165  | ng    | 0.00     |
| 5) Phenol-d6                  | 6.521  | 99   | 751      | 0.082  | ng    | 0.00     |
| 8) Nitrobenzene-d5            | 8.451  | 82   | 1834     | 0.263  | ng    | 0.00     |
| 11) 2-Methylnaphthalene-d10   | 11.663 | 152  | 5726     | 0.476  | ng    | 0.00     |
| 14) 2,4,6-Tribromophenol      | 15.480 | 330  | 885      | 0.326  | ng    | 0.00     |
| 15) 2-Fluorobiphenyl          | 12.604 | 172  | 1025     | 0.349  | ng    | 0.00     |
| 27) Fluoranthene-d10          | 18.790 | 212  | 16757    | 0.500  | ng    | 0.00     |
| 31) Terphenyl-d14             | 19.417 | 244  | 12231    | 0.726  | ng    | 0.00     |
| Target Compounds              |        |      |          |        |       |          |
| 2) 1,4-Dioxane                | 3.003  | 88   | 28516    | 11.419 | ng    | # 70     |
| 6) bis(2-Chloroethyl)ether    | 6.766  | 93   | 518      | 0.067  | ng    | 96       |
| 20) 4,6-Dinitro-2-methylph... | 15.170 | 198  | 6        | 0.193  | ng    | # 1      |
| 34) Bis(2-ethylhexyl)phtha... | 21.015 | 149  | 531      | 0.304  | ng    | # 62     |
| -----                         |        |      |          |        |       |          |

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

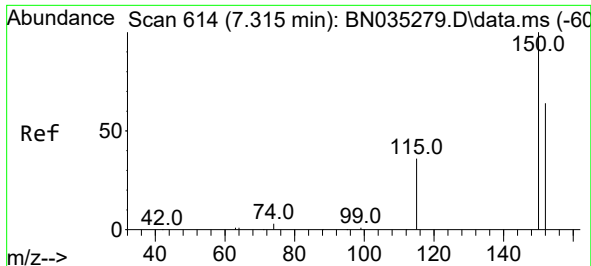
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Data File : BN035297.D  
Acq On : 26 Nov 2024 01:26  
Operator : RC/JU  
Sample : P4959-01  
Misc :  
ALS Vial : 73 Sample Multiplier: 1

Instrument :  
BNA\_N  
ClientSampleId :  
RW5-SP100-20241121

Quant Time: Nov 26 02:54:43 2024  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\8270-SIM-BN112524.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Tue Nov 26 02:36:08 2024  
Response via : Initial Calibration

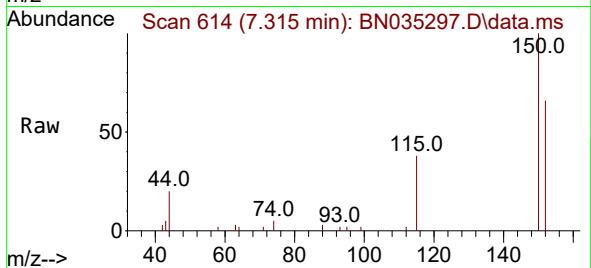




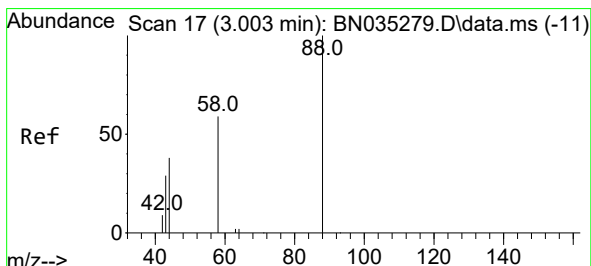
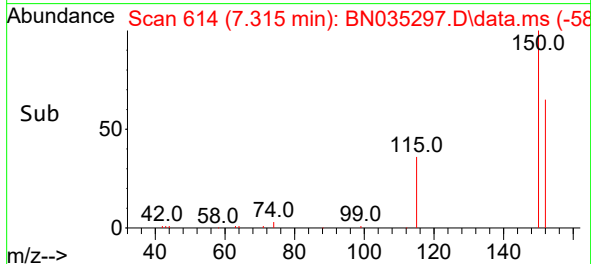
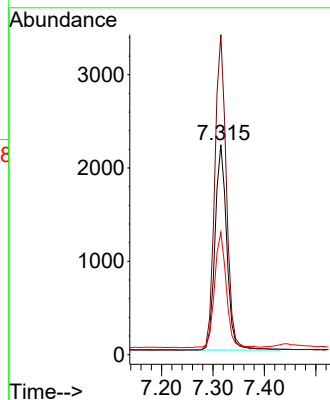


#1  
 1,4-Dichlorobenzene-d4  
 Concen: 0.400 ng  
 RT: 7.315 min Scan# 61  
 Delta R.T. 0.000 min  
 Lab File: BN035297.D  
 Acq: 26 Nov 2024 01:26

Instrument :  
 BNA\_N  
 ClientSampleId :  
 RW5-SP100-20241121

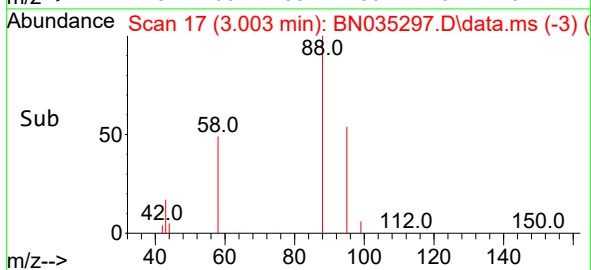
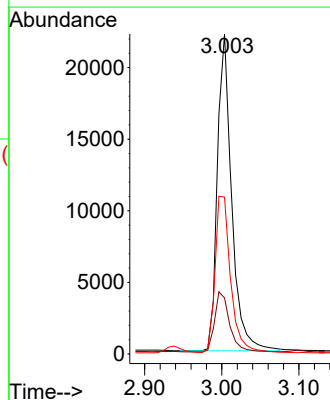
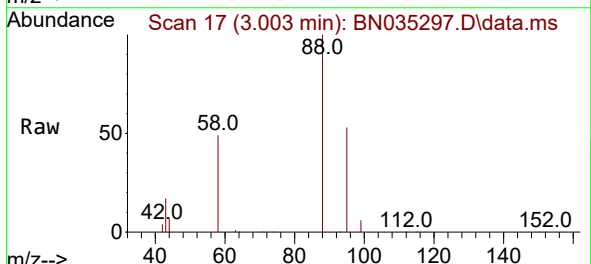


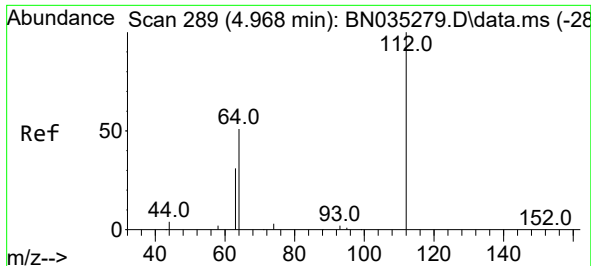
Tgt Ion:152 Resp: 3474  
 Ion Ratio Lower Upper  
 152 100  
 150 152.5 124.5 186.7  
 115 58.3 47.8 71.8



#2  
 1,4-Dioxane  
 Concen: 11.419 ng  
 RT: 3.003 min Scan# 17  
 Delta R.T. 0.000 min  
 Lab File: BN035297.D  
 Acq: 26 Nov 2024 01:26

Tgt Ion: 88 Resp: 28516  
 Ion Ratio Lower Upper  
 88 100  
 43 19.7 48.1 72.1#  
 58 53.5 46.9 70.3

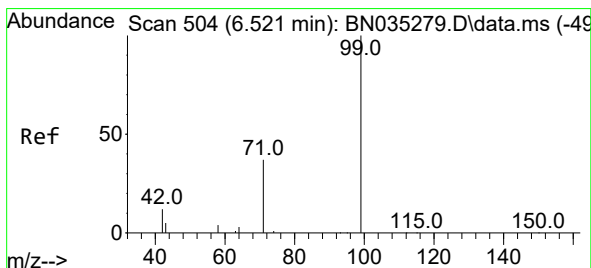
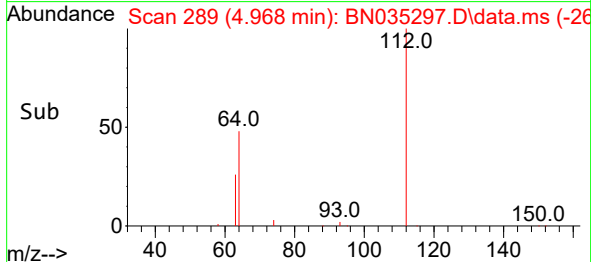
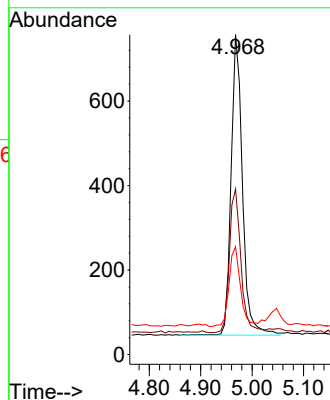
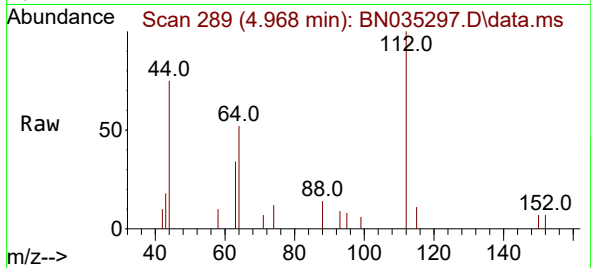




#4  
2-Fluorophenol  
Concen: 0.165 ng  
RT: 4.968 min Scan# 289  
Delta R.T. 0.000 min  
Lab File: BN035297.D  
Acq: 26 Nov 2024 01:26

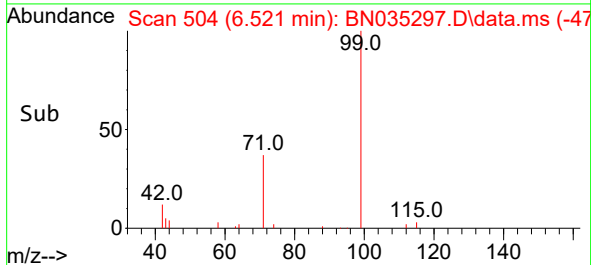
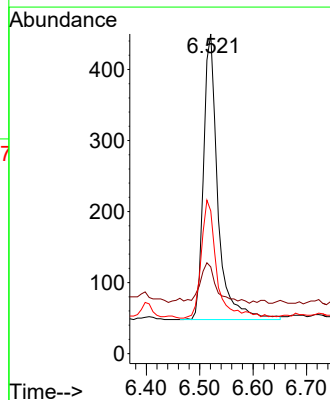
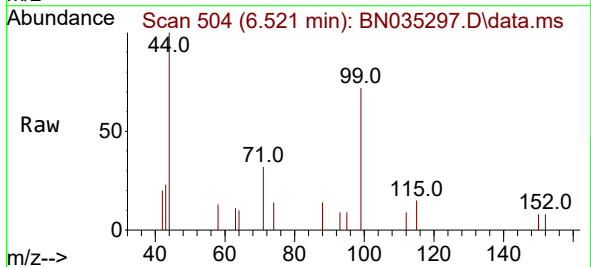
Instrument :  
BNA\_N  
ClientSampleId :  
RW5-SP100-20241121

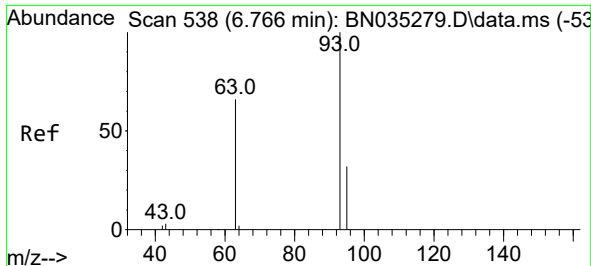
Tgt Ion:112 Resp: 1086  
Ion Ratio Lower Upper  
112 100  
64 48.4 40.4 60.6  
63 27.0 23.8 35.8



#5  
Phenol-d6  
Concen: 0.082 ng  
RT: 6.521 min Scan# 504  
Delta R.T. 0.000 min  
Lab File: BN035297.D  
Acq: 26 Nov 2024 01:26

Tgt Ion: 99 Resp: 751  
Ion Ratio Lower Upper  
99 100  
42 16.2 12.8 19.2  
71 45.0 31.4 47.2

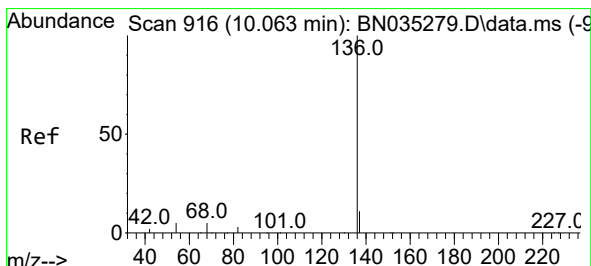
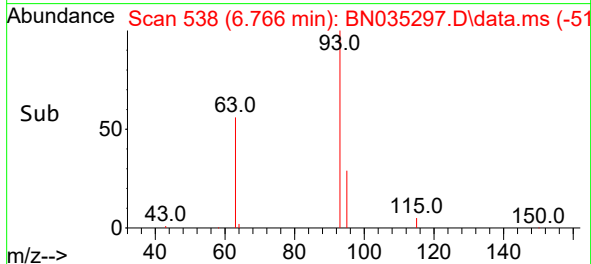
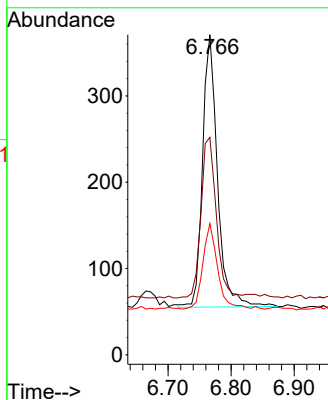
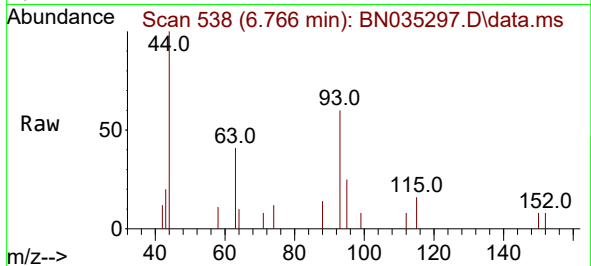




#6  
bis(2-Chloroethyl)ether  
Concen: 0.067 ng  
RT: 6.766 min Scan# 511  
Delta R.T. 0.000 min  
Lab File: BN035297.D  
Acq: 26 Nov 2024 01:26

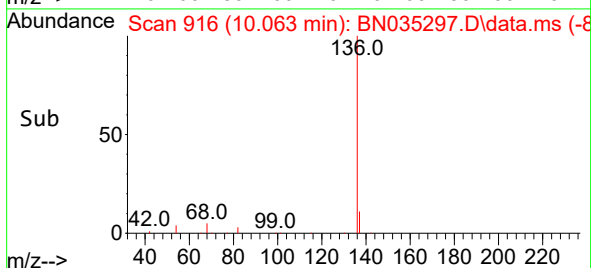
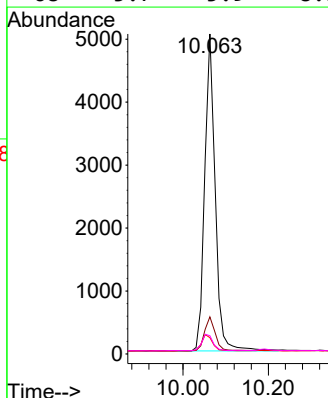
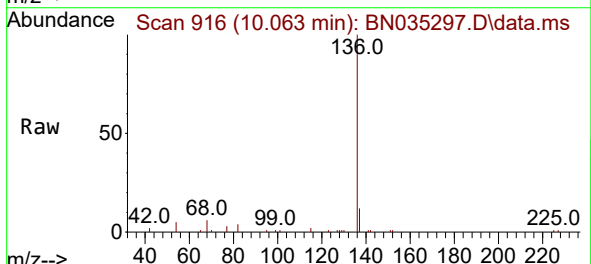
Instrument :  
BNA\_N  
ClientSampleId :  
RW5-SP100-20241121

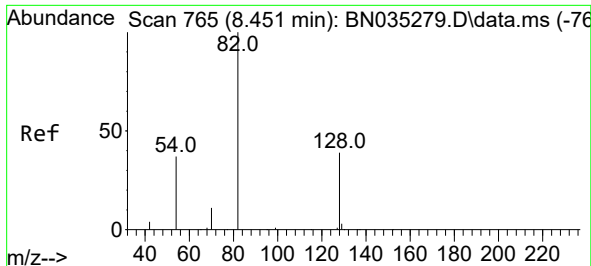
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 93    | Resp: | 518   |
| Ion      | Ratio | Lower | Upper |
| 93       | 100   |       |       |
| 63       | 60.4  | 52.3  | 78.5  |
| 95       | 31.5  | 25.5  | 38.3  |



#7  
Naphthalene-d8  
Concen: 0.400 ng  
RT: 10.063 min Scan# 916  
Delta R.T. 0.000 min  
Lab File: BN035297.D  
Acq: 26 Nov 2024 01:26

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 136   | Resp: | 8594  |
| Ion      | Ratio | Lower | Upper |
| 136      | 100   |       |       |
| 137      | 11.6  | 9.7   | 14.5  |
| 54       | 5.1   | 5.3   | 7.9#  |
| 68       | 5.7   | 5.9   | 8.9#  |

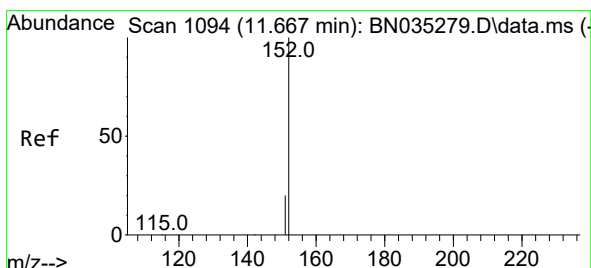
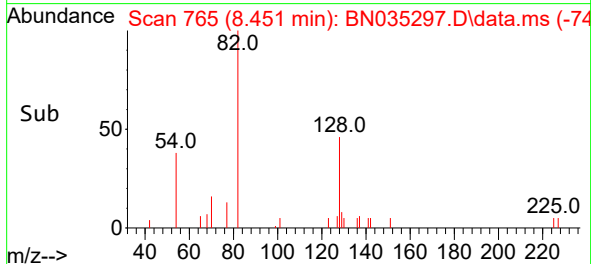
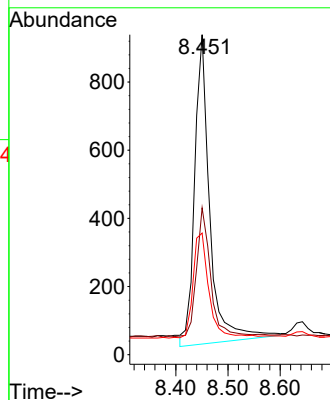
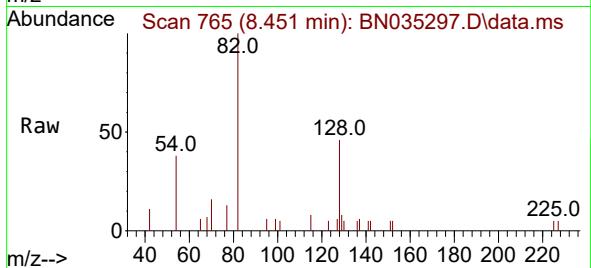




#8  
Nitrobenzene-d5  
Concen: 0.263 ng  
RT: 8.451 min Scan# 765  
Delta R.T. 0.000 min  
Lab File: BN035297.D  
Acq: 26 Nov 2024 01:26

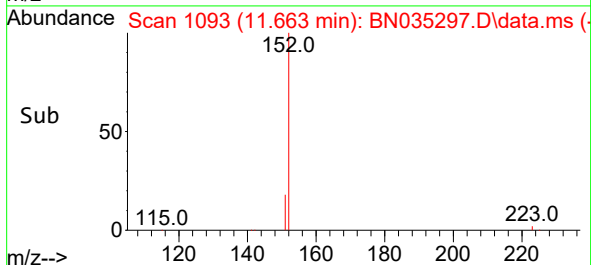
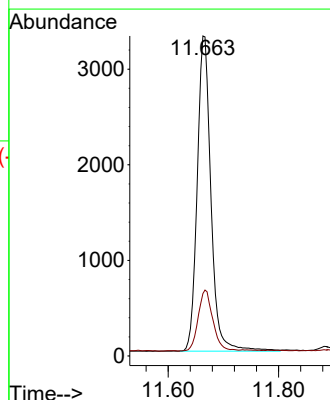
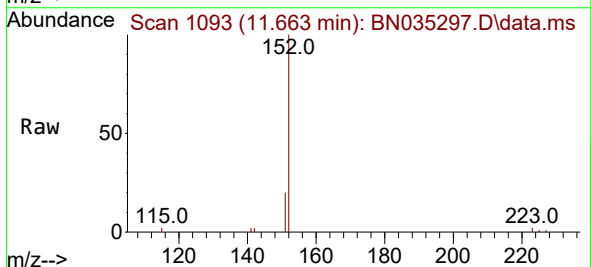
Instrument :  
BNA\_N  
ClientSampleId :  
RW5-SP100-20241121

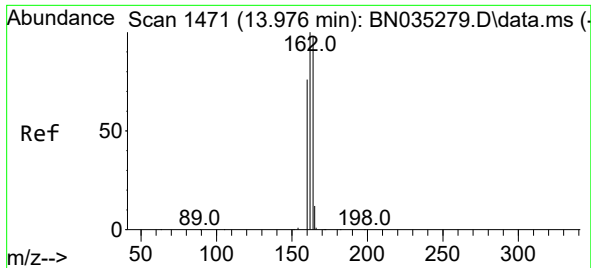
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 82    | Resp: | 1834  |
| Ion      | Ratio | Lower | Upper |
| 82       | 100   |       |       |
| 128      | 45.9  | 33.0  | 49.4  |
| 54       | 38.0  | 33.3  | 49.9  |



#11  
2-Methylnaphthalene-d10  
Concen: 0.476 ng  
RT: 11.663 min Scan# 1093  
Delta R.T. -0.004 min  
Lab File: BN035297.D  
Acq: 26 Nov 2024 01:26

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 152   | Resp: | 5726  |
| Ion      | Ratio | Lower | Upper |
| 152      | 100   |       |       |
| 151      | 20.5  | 17.2  | 25.8  |

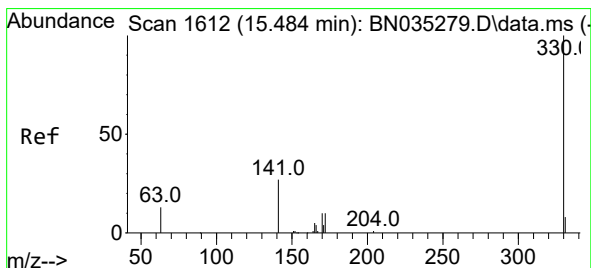
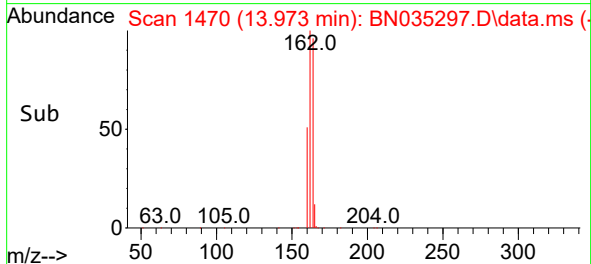
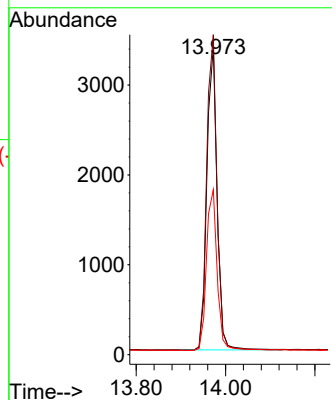
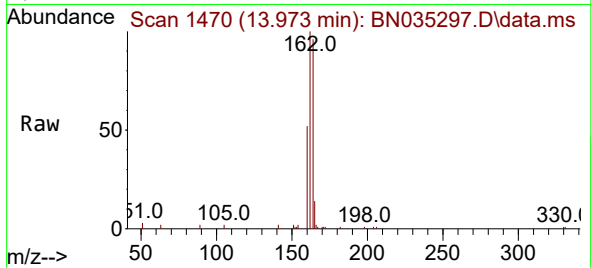




#13  
Acenaphthene-d10  
Concen: 0.400 ng  
RT: 13.973 min Scan# 1470  
Delta R.T. -0.004 min  
Lab File: BN035297.D  
Acq: 26 Nov 2024 01:26

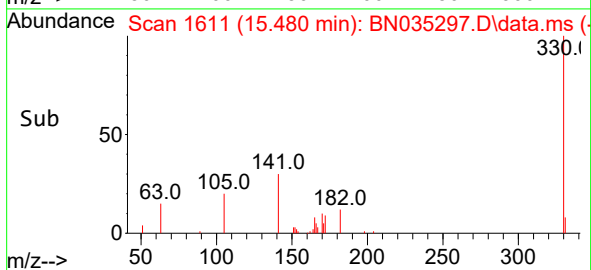
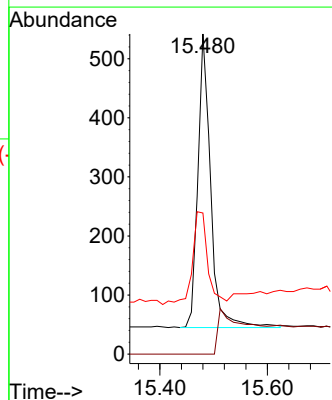
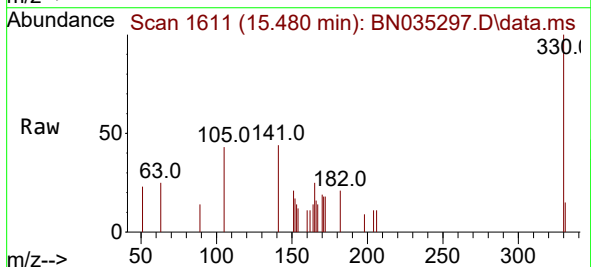
Instrument :  
BNA\_N  
ClientSampleId :  
RW5-SP100-20241121

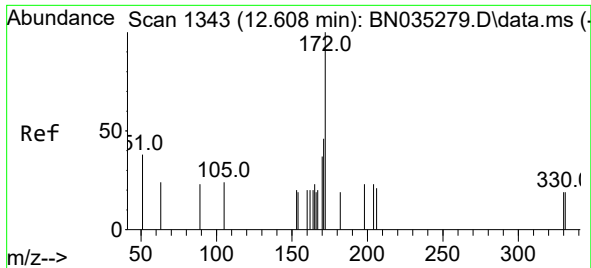
Tgt Ion:164 Resp: 5314  
Ion Ratio Lower Upper  
164 100  
162 103.9 82.0 123.0  
160 53.6 63.0 94.4#



#14  
2,4,6-Tribromophenol  
Concen: 0.326 ng  
RT: 15.480 min Scan# 1611  
Delta R.T. -0.004 min  
Lab File: BN035297.D  
Acq: 26 Nov 2024 01:26

Tgt Ion:330 Resp: 885  
Ion Ratio Lower Upper  
330 100  
332 0.0 0.0 0.0  
141 35.4 32.4 48.6

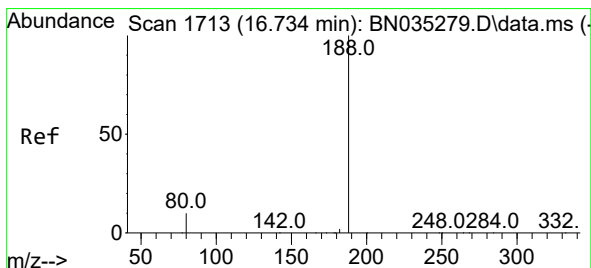
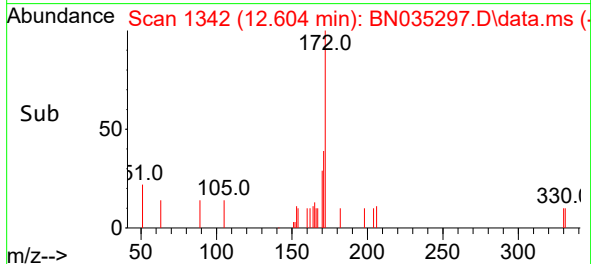
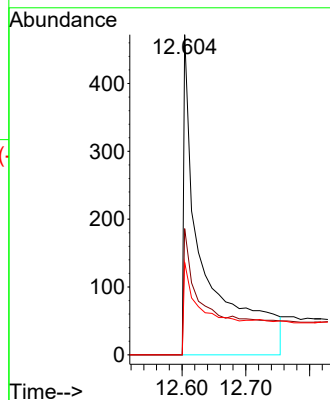
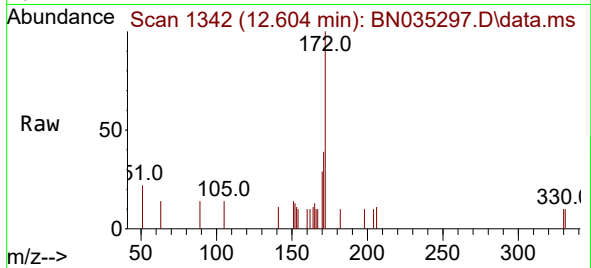




#15  
2-Fluorobiphenyl  
Concen: 0.349 ng  
RT: 12.604 min Scan# 11  
Delta R.T. -0.004 min  
Lab File: BN035297.D  
Acq: 26 Nov 2024 01:26

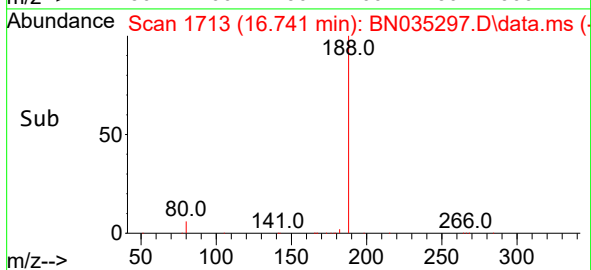
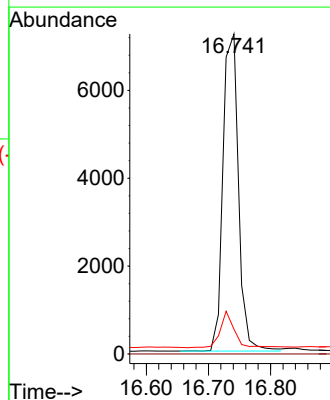
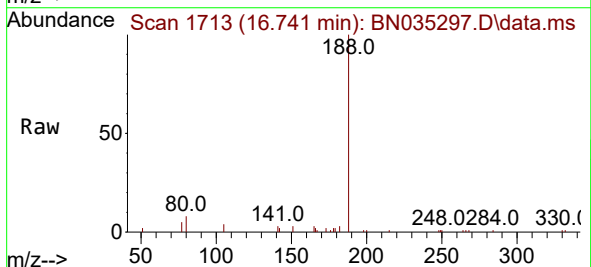
Instrument :  
BNA\_N  
ClientSampleId :  
RW5-SP100-20241121

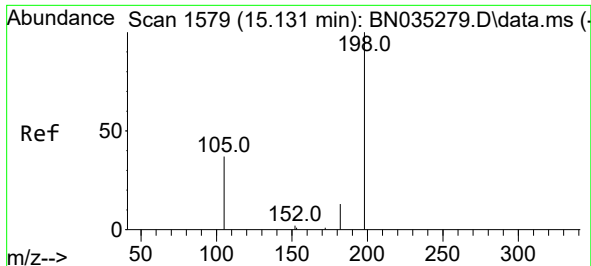
Tgt Ion:172 Resp: 1025  
Ion Ratio Lower Upper  
172 100  
171 39.4 36.6 55.0  
170 28.8 29.7 44.5#



#19  
Phenanthrene-d10  
Concen: 0.400 ng  
RT: 16.741 min Scan# 1713  
Delta R.T. 0.007 min  
Lab File: BN035297.D  
Acq: 26 Nov 2024 01:26

Tgt Ion:188 Resp: 12516  
Ion Ratio Lower Upper  
188 100  
94 0.0 0.0 0.0  
80 7.8 8.9 13.3#

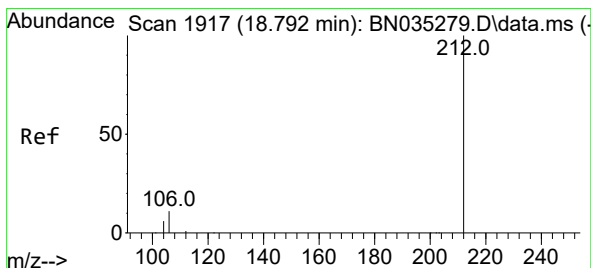
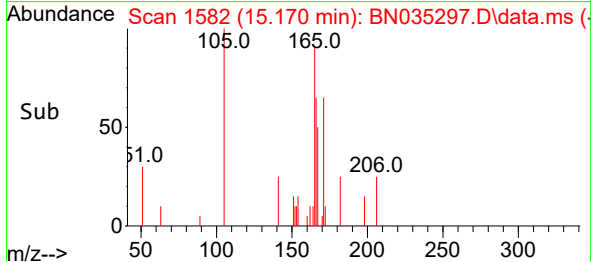
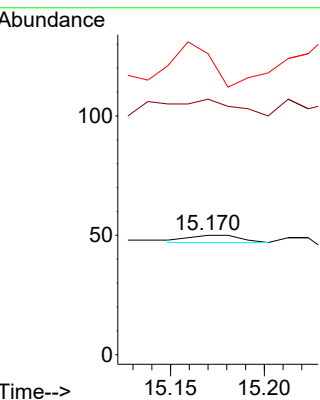
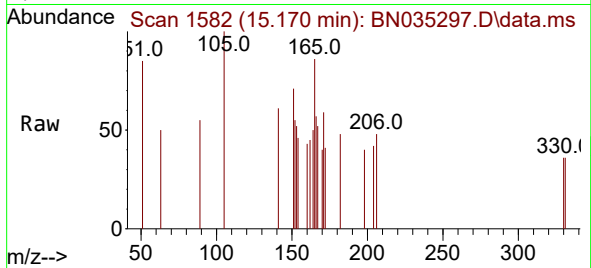




#20  
4,6-Dinitro-2-methylphenol  
Concen: 0.193 ng  
RT: 15.170 min Scan# 1582  
Delta R.T. 0.039 min  
Lab File: BN035297.D  
Acq: 26 Nov 2024 01:26

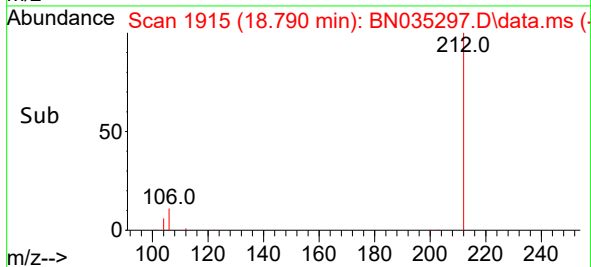
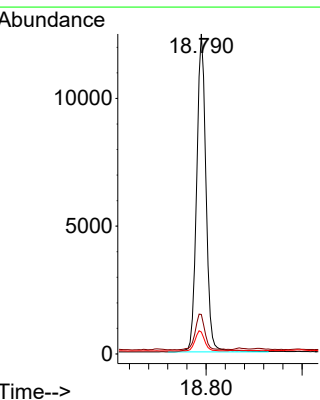
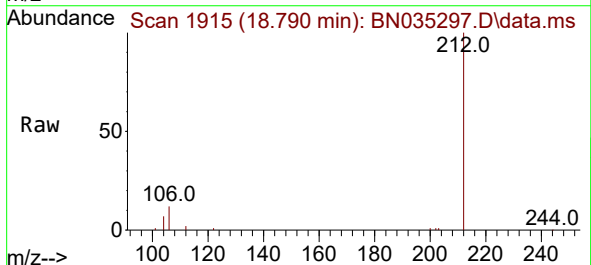
Instrument :  
BNA\_N  
ClientSampleId :  
RW5-SP100-20241121

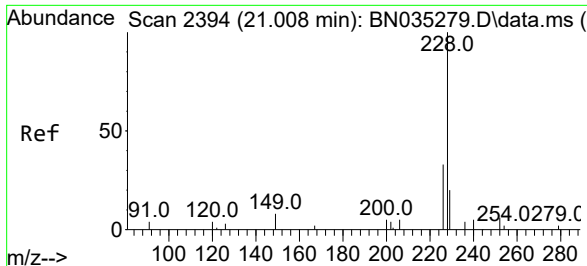
Tgt Ion:198 Resp: 6  
Ion Ratio Lower Upper  
198 100  
51 214.0 53.6 80.4#  
105 252.0 47.4 71.2#



#27  
Fluoranthene-d10  
Concen: 0.500 ng  
RT: 18.790 min Scan# 1915  
Delta R.T. -0.002 min  
Lab File: BN035297.D  
Acq: 26 Nov 2024 01:26

Tgt Ion:212 Resp: 16757  
Ion Ratio Lower Upper  
212 100  
106 11.8 9.8 14.8  
104 6.4 5.6 8.4





#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.006 min Scan# 21

Delta R.T. -0.002 min

Lab File: BN035297.D

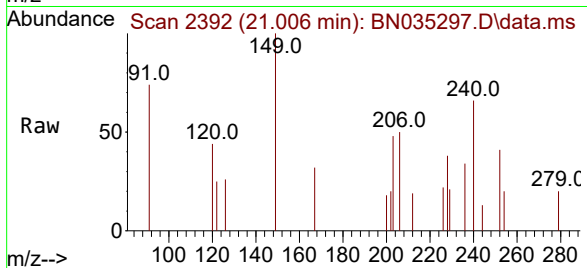
Acq: 26 Nov 2024 01:26

Instrument :

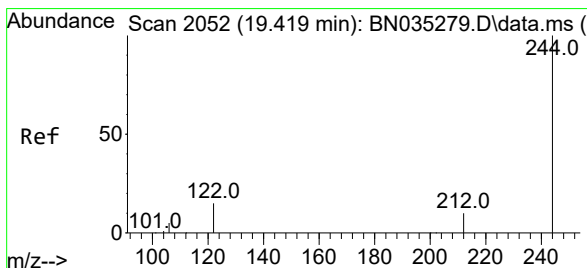
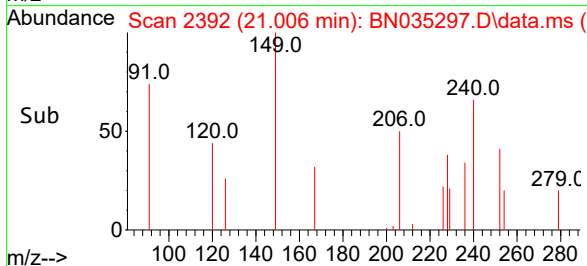
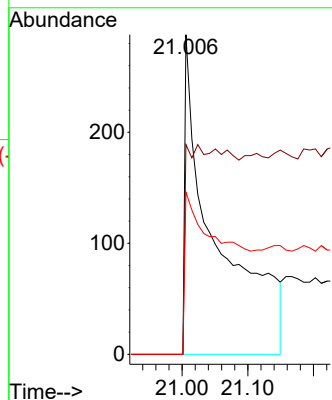
BNA\_N

ClientSampleId :

RW5-SP100-20241121



|           |       |       |      |
|-----------|-------|-------|------|
| Tgt Ion:  | 240   | Resp: | 912  |
| Ion Ratio | Lower | Upper |      |
| 240       | 100   |       |      |
| 120       | 65.6  | 54.9  | 82.3 |
| 236       | 50.7  | 54.0  | 81.0 |



#31

Terphenyl-d14

Concen: 0.726 ng

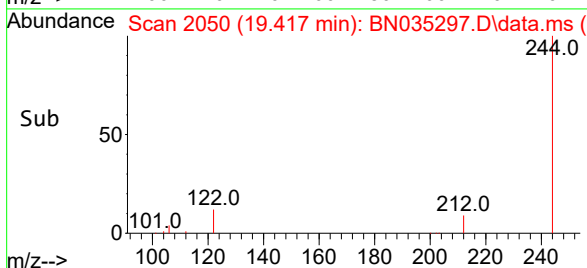
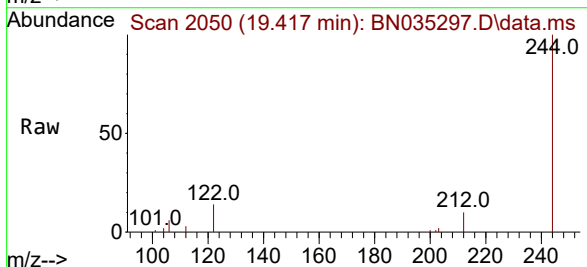
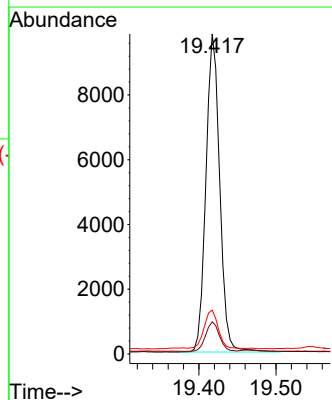
RT: 19.417 min Scan# 2050

Delta R.T. -0.002 min

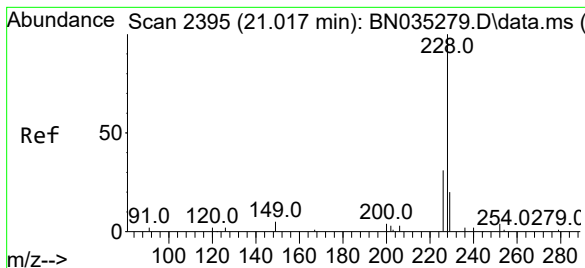
Lab File: BN035297.D

Acq: 26 Nov 2024 01:26

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 244   | Resp: | 12231 |
| Ion Ratio | Lower | Upper |       |
| 244       | 100   |       |       |
| 212       | 10.0  | 9.4   | 14.0  |
| 122       | 13.7  | 13.0  | 19.4  |



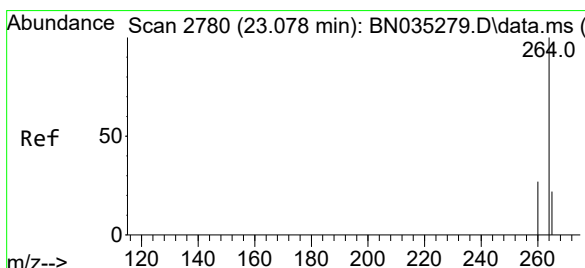
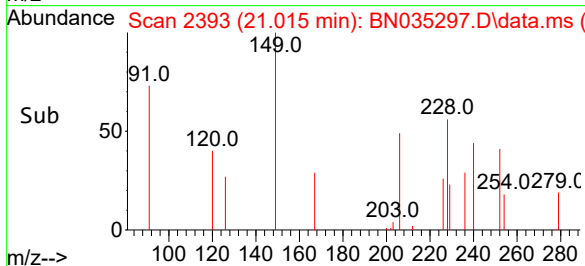
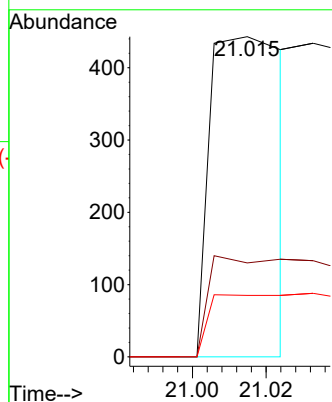
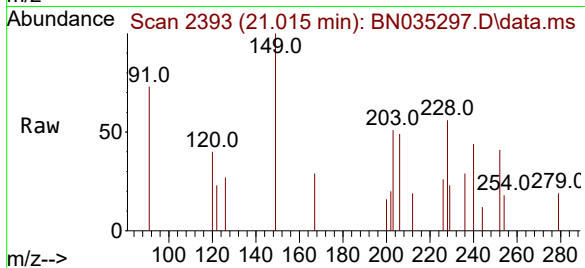




#34  
 Bis(2-ethylhexyl)phthalate  
 Concen: 0.304 ng  
 RT: 21.015 min Scan# 2100  
 Delta R.T. -0.002 min  
 Lab File: BN035297.D  
 Acq: 26 Nov 2024 01:26

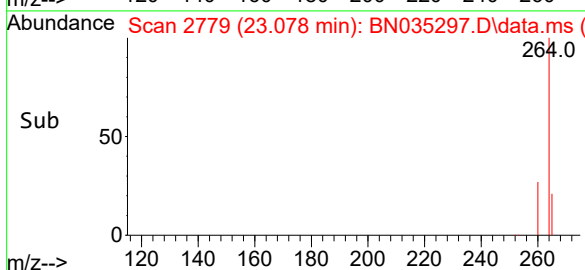
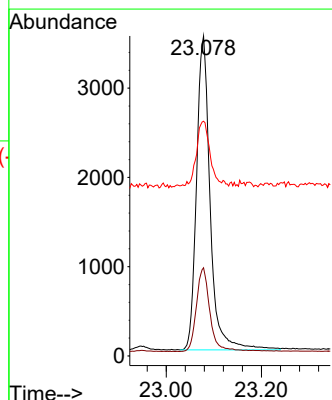
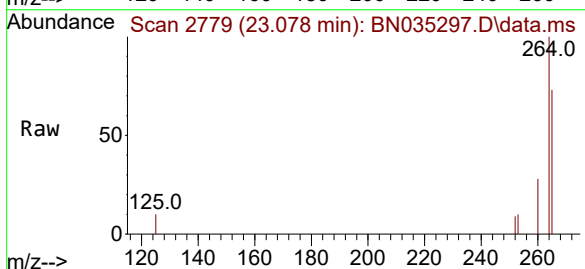
Instrument :  
 BNA\_N  
 ClientSampleId :  
 RW5-SP100-20241121

Tgt Ion:149 Resp: 531  
 Ion Ratio Lower Upper  
 149 100  
 167 56.5 0.0 0.0#  
 279 0.0 13.0 19.6#



#35  
 Perylene-d12  
 Concen: 0.400 ng  
 RT: 23.078 min Scan# 2779  
 Delta R.T. 0.001 min  
 Lab File: BN035297.D  
 Acq: 26 Nov 2024 01:26

Tgt Ion:264 Resp: 6981  
 Ion Ratio Lower Upper  
 264 100  
 260 27.5 22.3 33.5  
 265 73.4 68.6 103.0



Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN112524\  
 Data File : BN035298.D  
 Acq On : 26 Nov 2024 02:02  
 Operator : RC/JU  
 Sample : P4959-02  
 Misc :  
 ALS Vial : 74 Sample Multiplier: 1

Instrument :  
 BNA\_N  
 ClientSampleId :  
 RW5-SP201-20241121

Quant Time: Nov 26 03:32:52 2024  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\8270-SIM-BN112524.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Tue Nov 26 02:36:08 2024  
 Response via : Initial Calibration

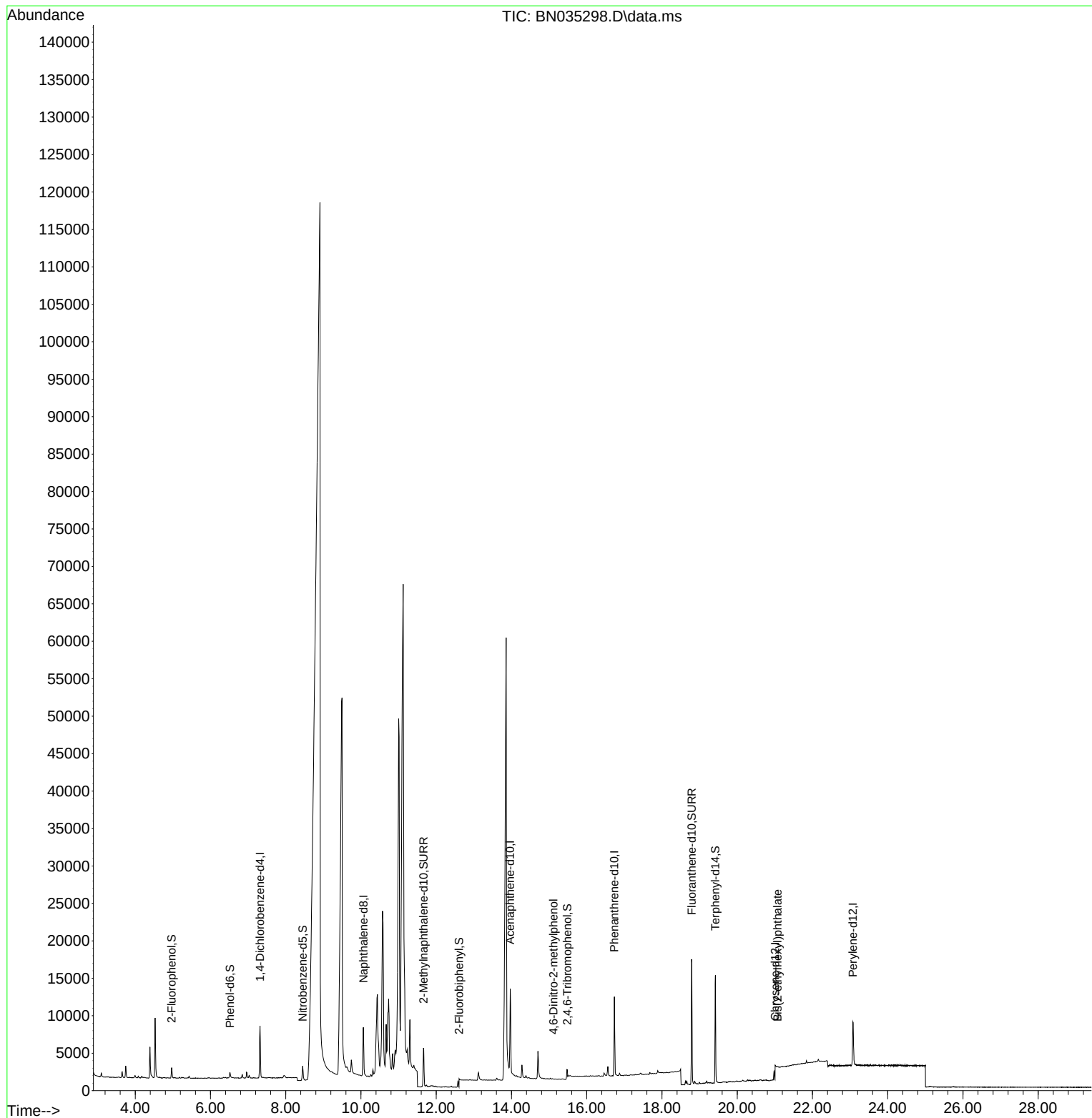
| Compound                      | R.T.   | QIon | Response | Conc  | Units | Dev(Min) |
|-------------------------------|--------|------|----------|-------|-------|----------|
| -----                         |        |      |          |       |       |          |
| Internal Standards            |        |      |          |       |       |          |
| 1) 1,4-Dichlorobenzene-d4     | 7.315  | 152  | 3353     | 0.400 | ng    | 0.00     |
| 7) Naphthalene-d8             | 10.062 | 136  | 8974     | 0.400 | ng    | 0.00     |
| 13) Acenaphthene-d10          | 13.965 | 164  | 7827     | 0.400 | ng    | #-0.01   |
| 19) Phenanthrene-d10          | 16.734 | 188  | 12956    | 0.400 | ng    | 0.00     |
| 29) Chrysene-d12              | 21.008 | 240  | 823      | 0.400 | ng    | # 0.00   |
| 35) Perylene-d12              | 23.075 | 264  | 7685     | 0.400 | ng    | 0.00     |
| System Monitoring Compounds   |        |      |          |       |       |          |
| 4) 2-Fluorophenol             | 4.968  | 112  | 1124     | 0.177 | ng    | 0.00     |
| 5) Phenol-d6                  | 6.520  | 99   | 772      | 0.087 | ng    | 0.00     |
| 8) Nitrobenzene-d5            | 8.450  | 82   | 1804     | 0.248 | ng    | 0.00     |
| 11) 2-Methylnaphthalene-d10   | 11.663 | 152  | 6842     | 0.545 | ng    | 0.00     |
| 14) 2,4,6-Tribromophenol      | 15.484 | 330  | 1237     | 0.310 | ng    | 0.00     |
| 15) 2-Fluorobiphenyl          | 12.608 | 172  | 373      | 0.086 | ng    | 0.00     |
| 27) Fluoranthene-d10          | 18.787 | 212  | 18292    | 0.528 | ng    | 0.00     |
| 31) Terphenyl-d14             | 19.419 | 244  | 13926    | 0.916 | ng    | 0.00     |
| Target Compounds              |        |      |          |       |       |          |
| 20) 4,6-Dinitro-2-methylph... | 15.120 | 198  | 3        | 0.192 | ng    | # 1      |
| 34) Bis(2-ethylhexyl)phtha... | 21.071 | 149  | 2245     | 1.426 | ng    | # 62     |
| -----                         |        |      |          |       |       |          |

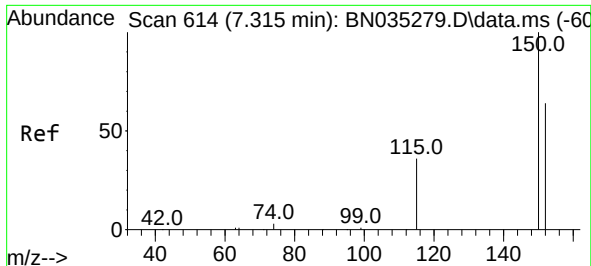
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN112524\  
Data File : BN035298.D  
Acq On : 26 Nov 2024 02:02  
Operator : RC/JU  
Sample : P4959-02  
Misc :  
ALS Vial : 74 Sample Multiplier: 1

Instrument :  
BNA\_N  
ClientSampleId :  
RW5-SP201-20241121

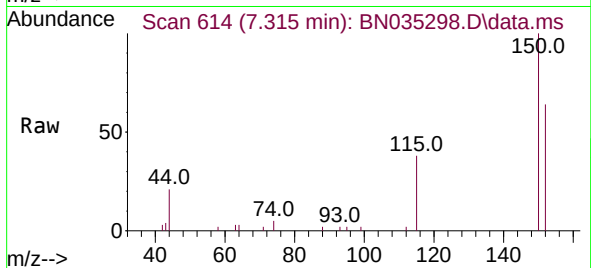
Quant Time: Nov 26 03:32:52 2024  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\8270-SIM-BN112524.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Tue Nov 26 02:36:08 2024  
Response via : Initial Calibration



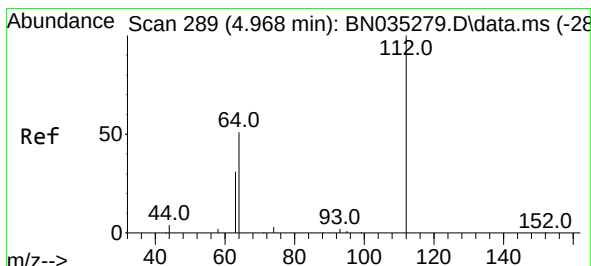
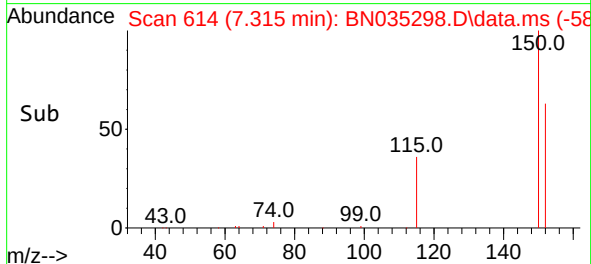
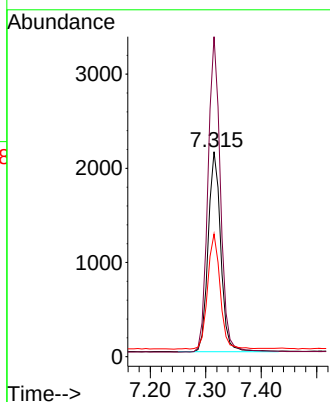


#1  
 1,4-Dichlorobenzene-d4  
 Concen: 0.400 ng  
 RT: 7.315 min Scan# 614  
 Delta R.T. -0.000 min  
 Lab File: BN035298.D  
 Acq: 26 Nov 2024 02:02

Instrument :  
 BNA\_N  
 ClientSampleId :  
 RW5-SP201-20241121

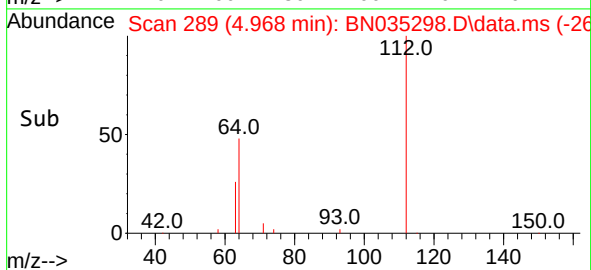
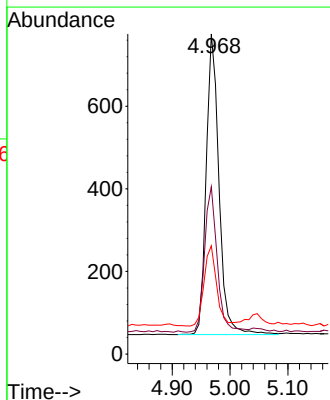
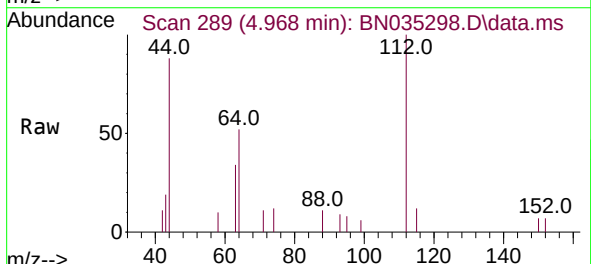


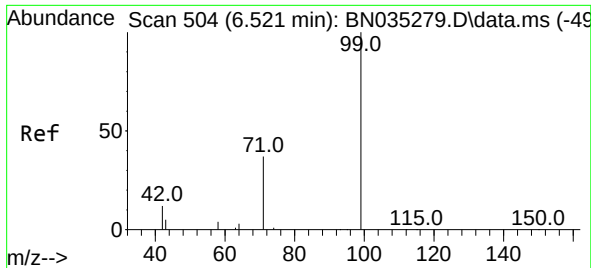
Tgt Ion:152 Resp: 3353  
 Ion Ratio Lower Upper  
 152 100  
 150 156.1 124.5 186.7  
 115 59.9 47.8 71.8



#4  
 2-Fluorophenol  
 Concen: 0.177 ng  
 RT: 4.968 min Scan# 289  
 Delta R.T. -0.000 min  
 Lab File: BN035298.D  
 Acq: 26 Nov 2024 02:02

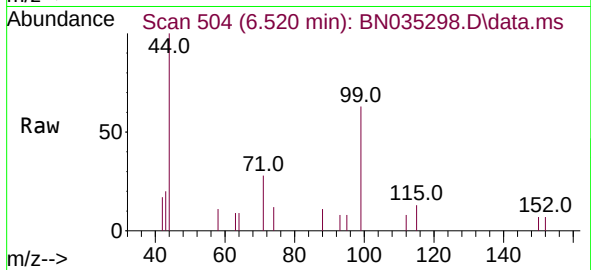
Tgt Ion:112 Resp: 1124  
 Ion Ratio Lower Upper  
 112 100  
 64 48.0 40.4 60.6  
 63 26.2 23.8 35.8



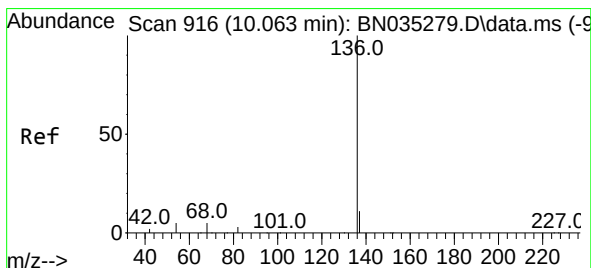
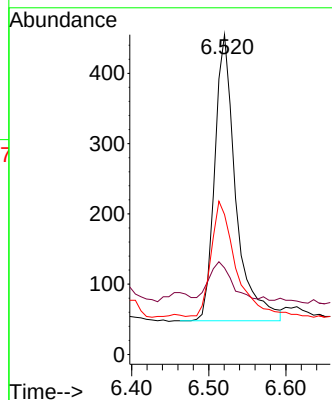
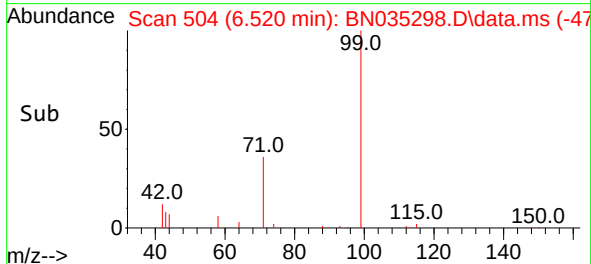


#5  
Phenol-d6  
Concen: 0.087 ng  
RT: 6.520 min Scan# 504  
Delta R.T. -0.000 min  
Lab File: BN035298.D  
Acq: 26 Nov 2024 02:02

Instrument :  
BNA\_N  
ClientSampleId :  
RW5-SP201-20241121

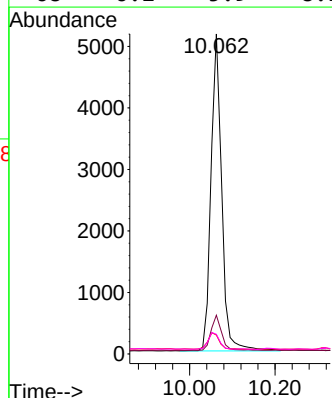
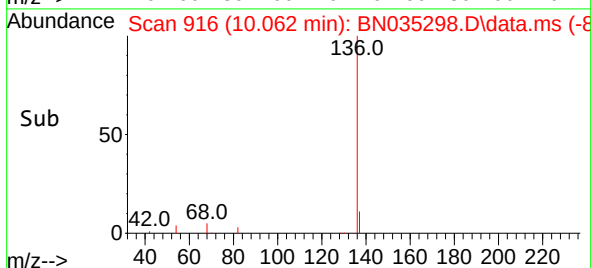
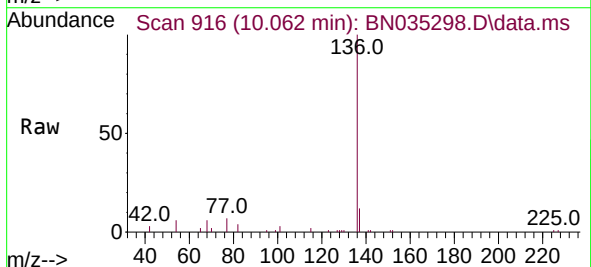


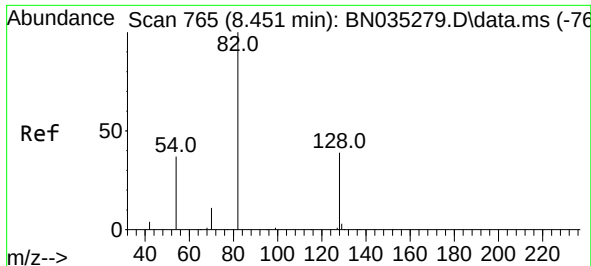
Tgt Ion: 99 Resp: 772  
Ion Ratio Lower Upper  
99 100  
42 14.5 12.8 19.2  
71 48.4 31.4 47.2#



#7  
Naphthalene-d8  
Concen: 0.400 ng  
RT: 10.062 min Scan# 916  
Delta R.T. -0.000 min  
Lab File: BN035298.D  
Acq: 26 Nov 2024 02:02

Tgt Ion: 136 Resp: 8974  
Ion Ratio Lower Upper  
136 100  
137 12.1 9.7 14.5  
54 5.9 5.3 7.9  
68 6.2 5.9 8.9

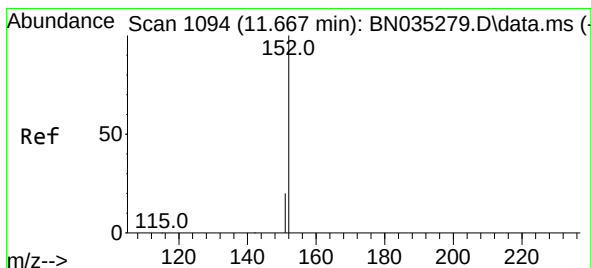
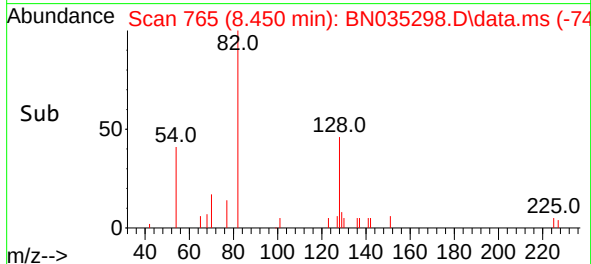
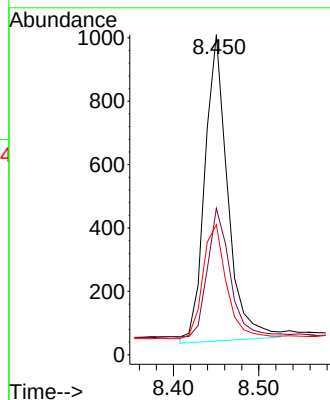
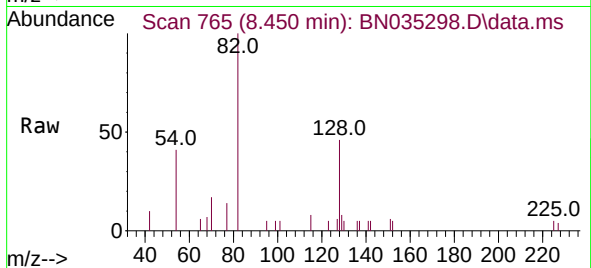




#8  
Nitrobenzene-d5  
Concen: 0.248 ng  
RT: 8.450 min Scan# 765  
Delta R.T. -0.000 min  
Lab File: BN035298.D  
Acq: 26 Nov 2024 02:02

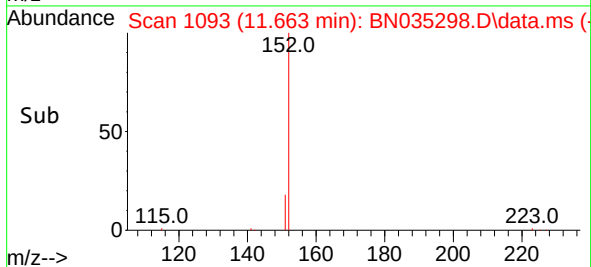
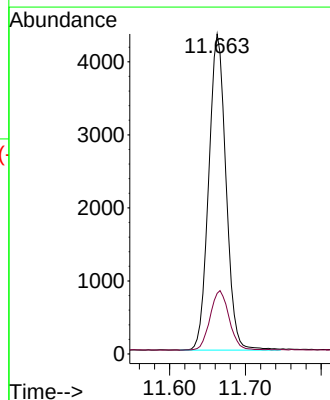
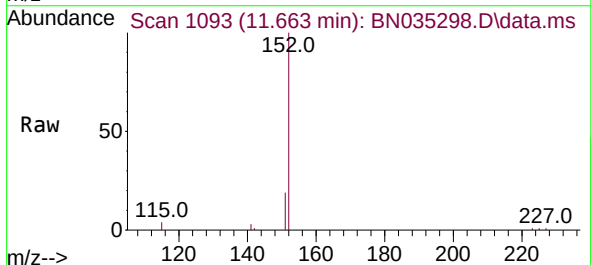
Instrument :  
BNA\_N  
ClientSampleId :  
RW5-SP201-20241121

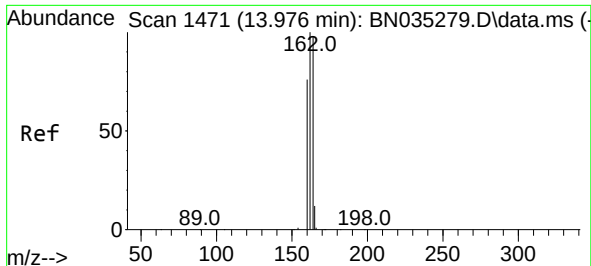
Tgt Ion: 82 Resp: 1804  
Ion Ratio Lower Upper  
82 100  
128 45.7 33.0 49.4  
54 40.7 33.3 49.9



#11  
2-Methylnaphthalene-d10  
Concen: 0.545 ng  
RT: 11.663 min Scan# 1093  
Delta R.T. -0.004 min  
Lab File: BN035298.D  
Acq: 26 Nov 2024 02:02

Tgt Ion:152 Resp: 6842  
Ion Ratio Lower Upper  
152 100  
151 20.8 17.2 25.8

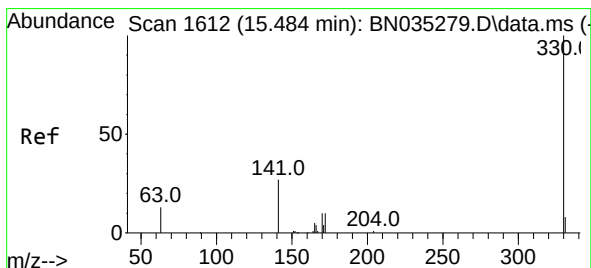
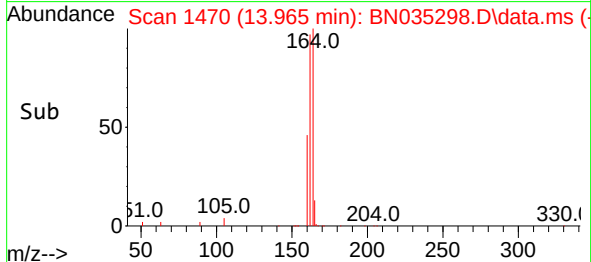
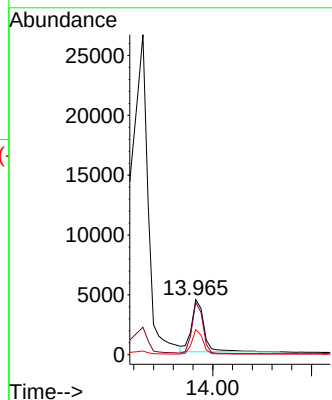
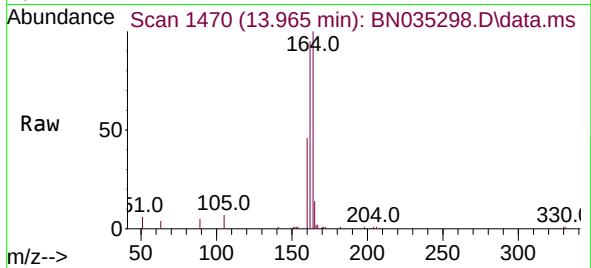




#13  
Acenaphthene-d10  
Concen: 0.400 ng  
RT: 13.965 min Scan# 1471  
Delta R.T. -0.011 min  
Lab File: BN035298.D  
Acq: 26 Nov 2024 02:02

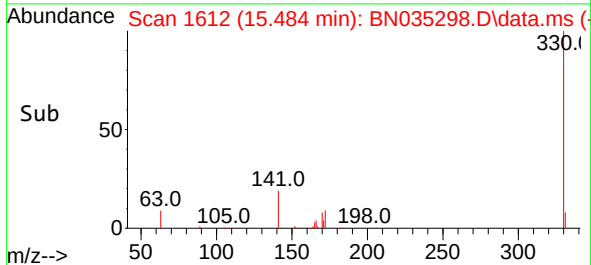
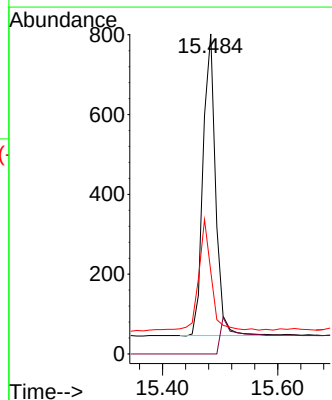
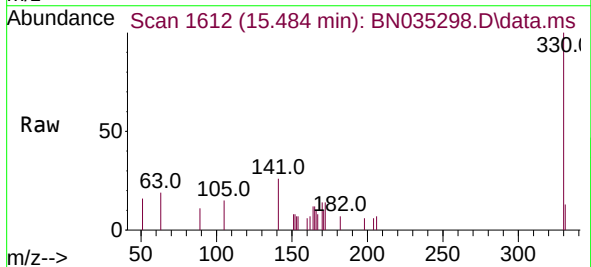
Instrument :  
BNA\_N  
ClientSampleId :  
RW5-SP201-20241121

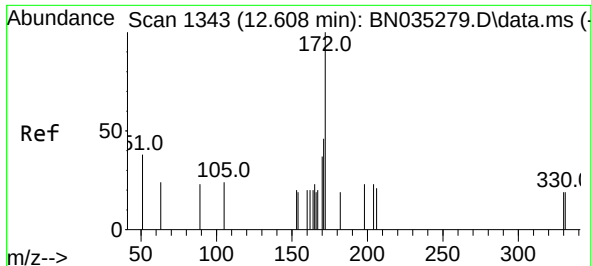
Tgt Ion:164 Resp: 7827  
Ion Ratio Lower Upper  
164 100  
162 95.1 82.0 123.0  
160 45.6 63.0 94.4#



#14  
2,4,6-Tribromophenol  
Concen: 0.310 ng  
RT: 15.484 min Scan# 1612  
Delta R.T. -0.000 min  
Lab File: BN035298.D  
Acq: 26 Nov 2024 02:02

Tgt Ion:330 Resp: 1237  
Ion Ratio Lower Upper  
330 100  
332 0.0 0.0 0.0  
141 37.5 32.4 48.6

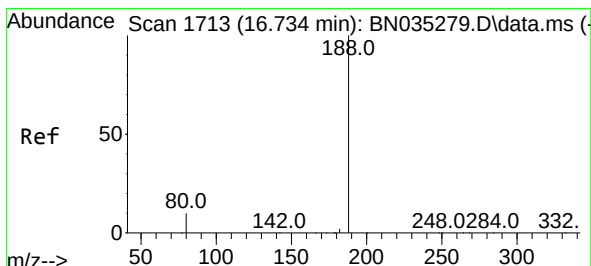
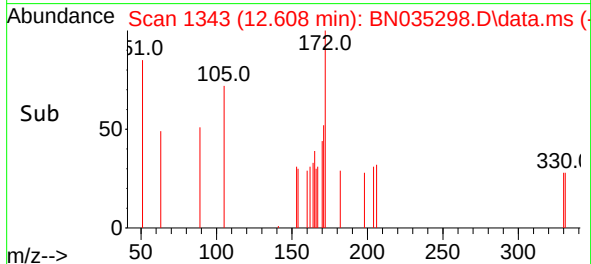
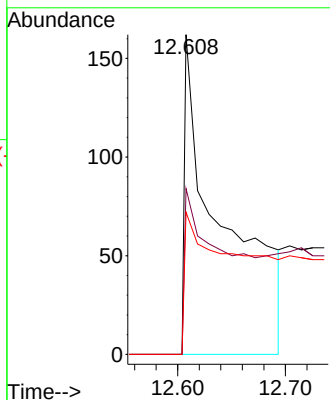
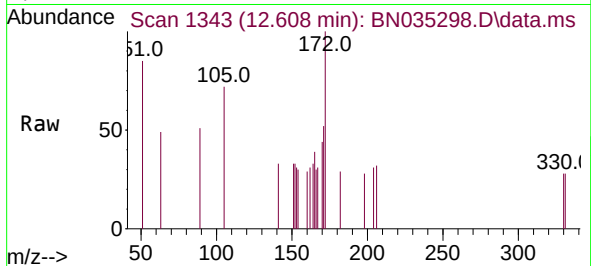




#15  
2-Fluorobiphenyl  
Concen: 0.086 ng  
RT: 12.608 min Scan# 11  
Delta R.T. -0.000 min  
Lab File: BN035298.D  
Acq: 26 Nov 2024 02:02

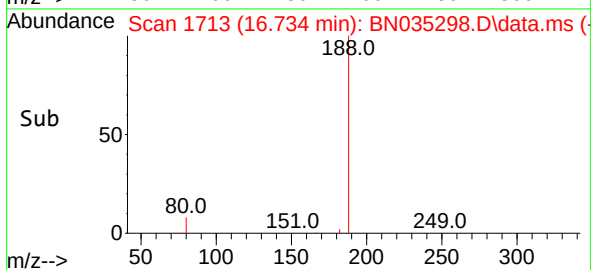
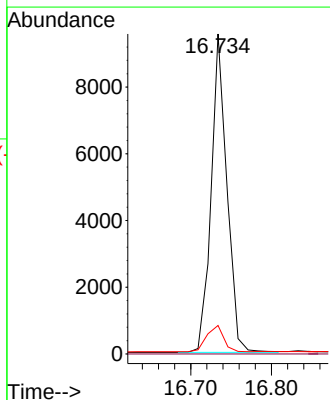
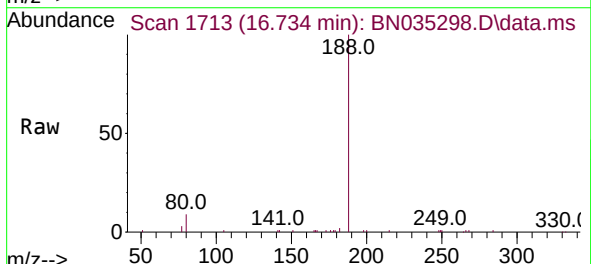
Instrument :  
BNA\_N  
ClientSampleId :  
RW5-SP201-20241121

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 172   | Resp: | 373   |
| Ion      | Ratio | Lower | Upper |
| 172      | 100   |       |       |
| 171      | 51.9  | 36.6  | 55.0  |
| 170      | 44.4  | 29.7  | 44.5  |

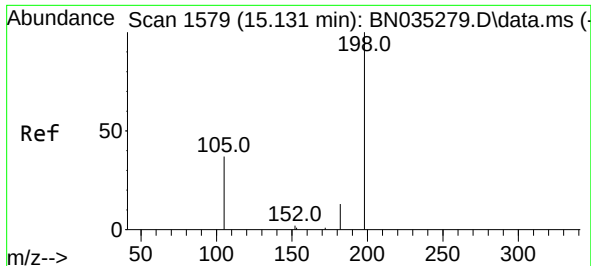


#19  
Phenanthrene-d10  
Concen: 0.400 ng  
RT: 16.734 min Scan# 1713  
Delta R.T. -0.000 min  
Lab File: BN035298.D  
Acq: 26 Nov 2024 02:02

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 188   | Resp: | 12956 |
| Ion      | Ratio | Lower | Upper |
| 188      | 100   |       |       |
| 94       | 0.0   | 0.0   | 0.0   |
| 80       | 8.9   | 8.9   | 13.3  |



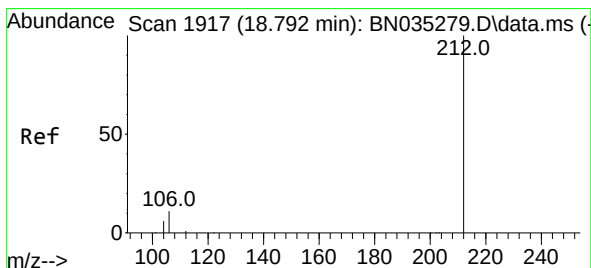
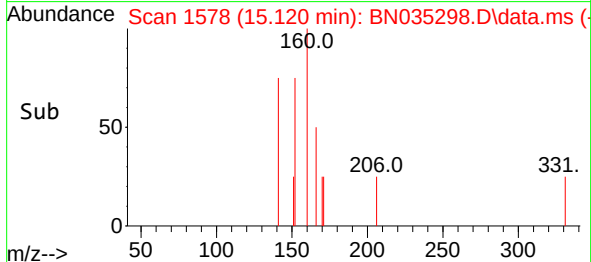
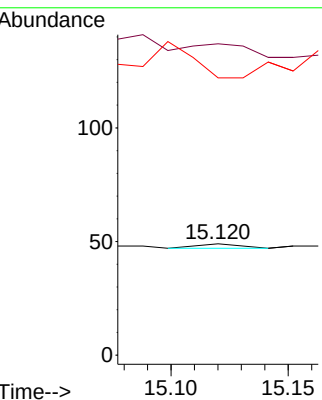
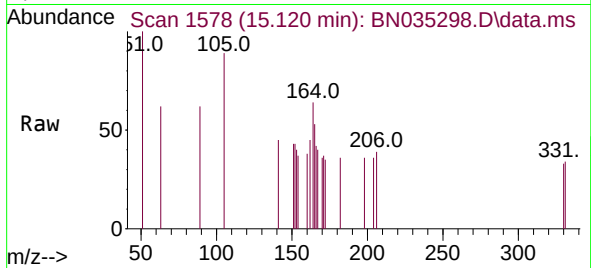




#20  
4,6-Dinitro-2-methylphenol  
Concen: 0.192 ng  
RT: 15.120 min Scan# 11  
Delta R.T. -0.011 min  
Lab File: BN035298.D  
Acq: 26 Nov 2024 02:02

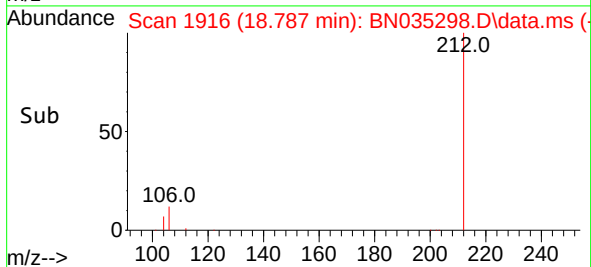
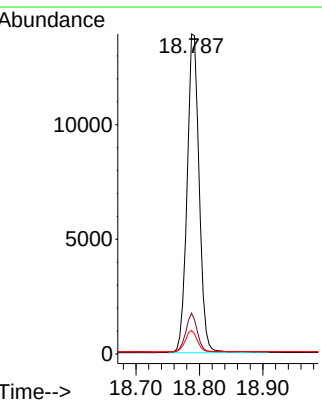
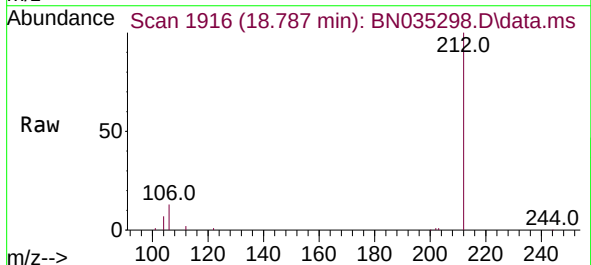
Instrument :  
BNA\_N  
ClientSampleId :  
RW5-SP201-20241121

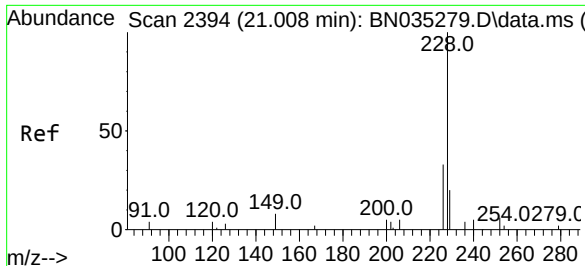
Tgt Ion:198 Resp: 3  
Ion Ratio Lower Upper  
198 100  
51 279.6 53.6 80.4#  
105 249.0 47.4 71.2#



#27  
Fluoranthene-d10  
Concen: 0.528 ng  
RT: 18.787 min Scan# 1916  
Delta R.T. -0.005 min  
Lab File: BN035298.D  
Acq: 26 Nov 2024 02:02

Tgt Ion:212 Resp: 18292  
Ion Ratio Lower Upper  
212 100  
106 11.6 9.8 14.8  
104 6.6 5.6 8.4





#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.008 min Scan# 21

Delta R.T. -0.000 min

Lab File: BN035298.D

Acq: 26 Nov 2024 02:02

Instrument :

BNA\_N

ClientSampleId :

RW5-SP201-20241121

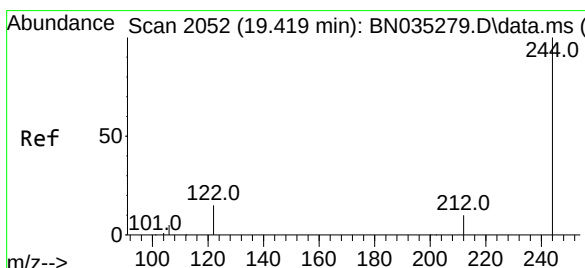
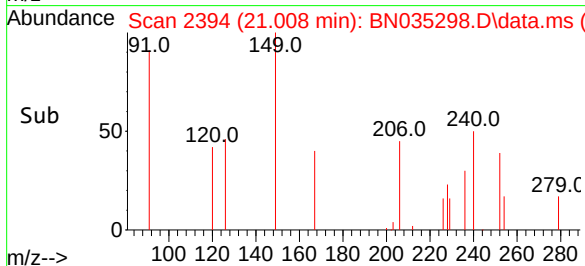
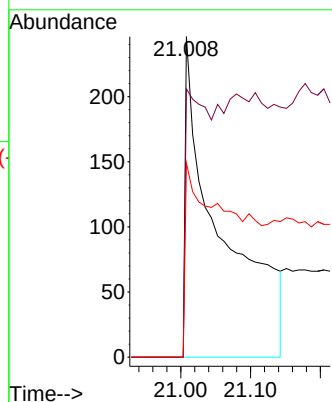
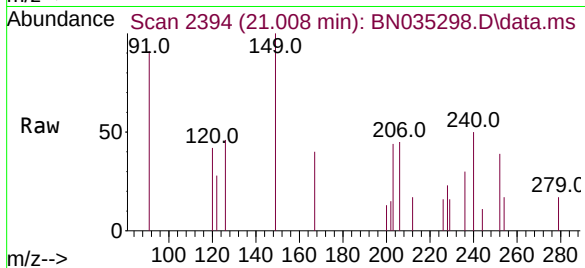
Tgt Ion:240 Resp: 823

Ion Ratio Lower Upper

240 100

120 83.7 54.9 82.3#

236 60.6 54.0 81.0



#31

Terphenyl-d14

Concen: 0.916 ng

RT: 19.419 min Scan# 2052

Delta R.T. 0.000 min

Lab File: BN035298.D

Acq: 26 Nov 2024 02:02

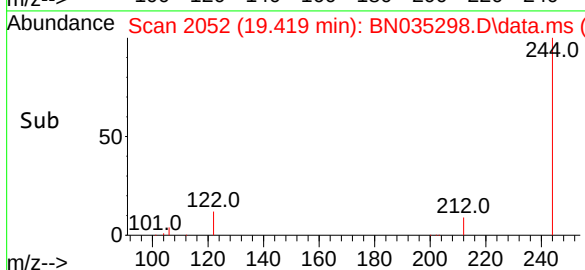
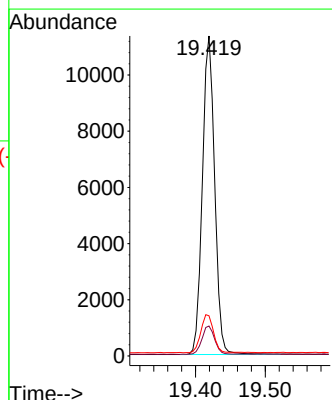
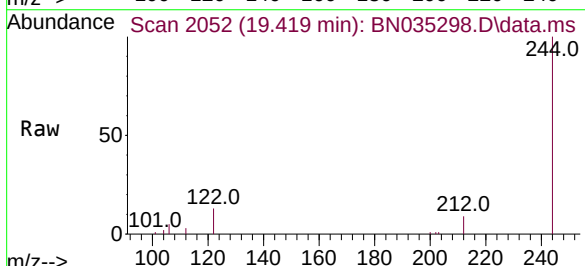
Tgt Ion:244 Resp: 13926

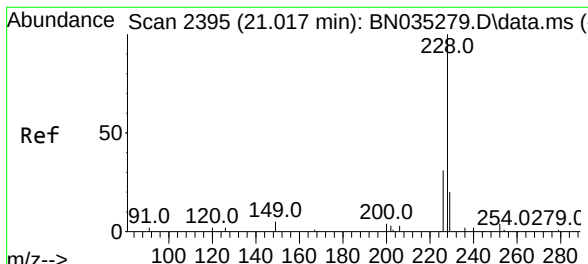
Ion Ratio Lower Upper

244 100

212 9.4 9.4 14.0#

122 12.6 13.0 19.4#

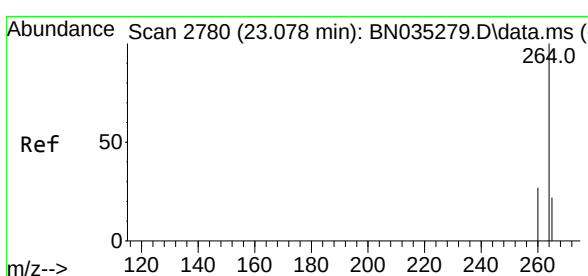
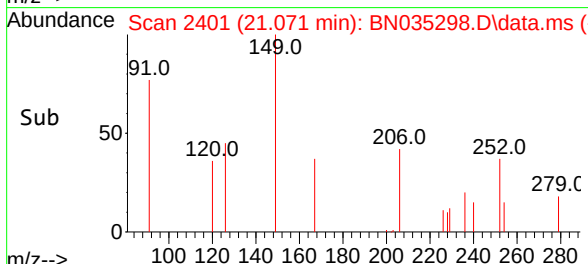
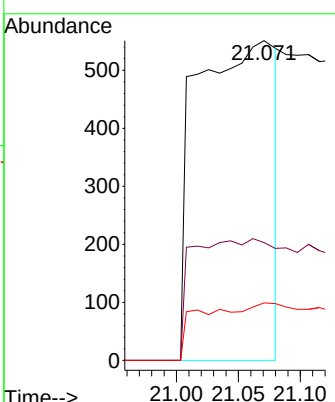
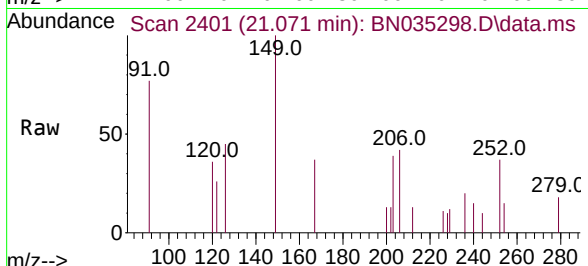




#34  
 Bis(2-ethylhexyl)phthalate  
 Concen: 1.426 ng  
 RT: 21.071 min Scan# 2401  
 Delta R.T. 0.054 min  
 Lab File: BN035298.D  
 Acq: 26 Nov 2024 02:02

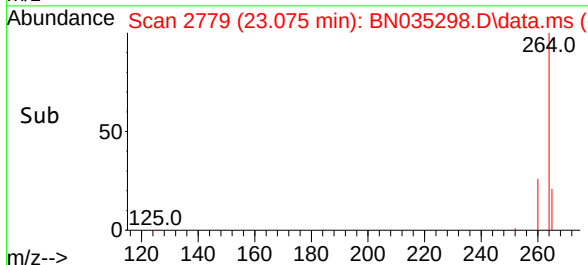
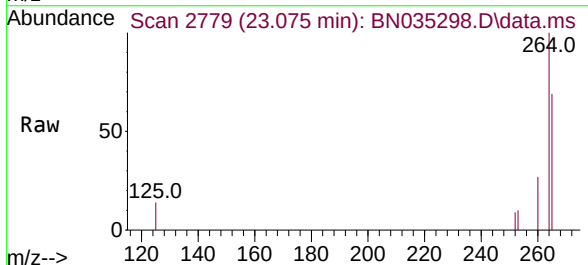
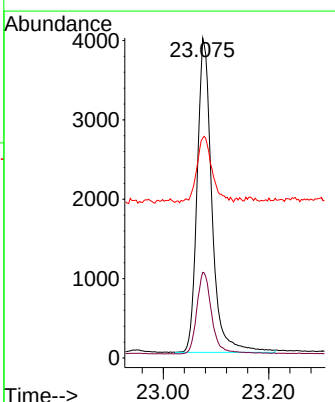
Instrument :  
 BNA\_N  
 ClientSampleId :  
 RW5-SP201-20241121

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 149   | Resp: | 2245  |
| Ion Ratio | Lower | Upper |       |
| 149       | 100   |       |       |
| 167       | 0.0   | 0.0   | 0.0   |
| 279       | 0.0   | 13.0  | 19.6# |



#35  
 Perylene-d12  
 Concen: 0.400 ng  
 RT: 23.075 min Scan# 2779  
 Delta R.T. -0.003 min  
 Lab File: BN035298.D  
 Acq: 26 Nov 2024 02:02

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 264   | Resp: | 7685  |
| Ion Ratio | Lower | Upper |       |
| 264       | 100   |       |       |
| 260       | 26.8  | 22.3  | 33.5  |
| 265       | 68.7  | 68.6  | 103.0 |



Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN112524\  
 Data File : BN035299.D  
 Acq On : 26 Nov 2024 02:38  
 Operator : RC/JU  
 Sample : P4959-03  
 Misc :  
 ALS Vial : 75 Sample Multiplier: 1

Instrument :  
 BNA\_N  
 ClientSampleId :  
 RW5-SP303-20241121

Quant Time: Nov 26 03:33:04 2024  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\8270-SIM-BN112524.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Tue Nov 26 02:36:08 2024  
 Response via : Initial Calibration

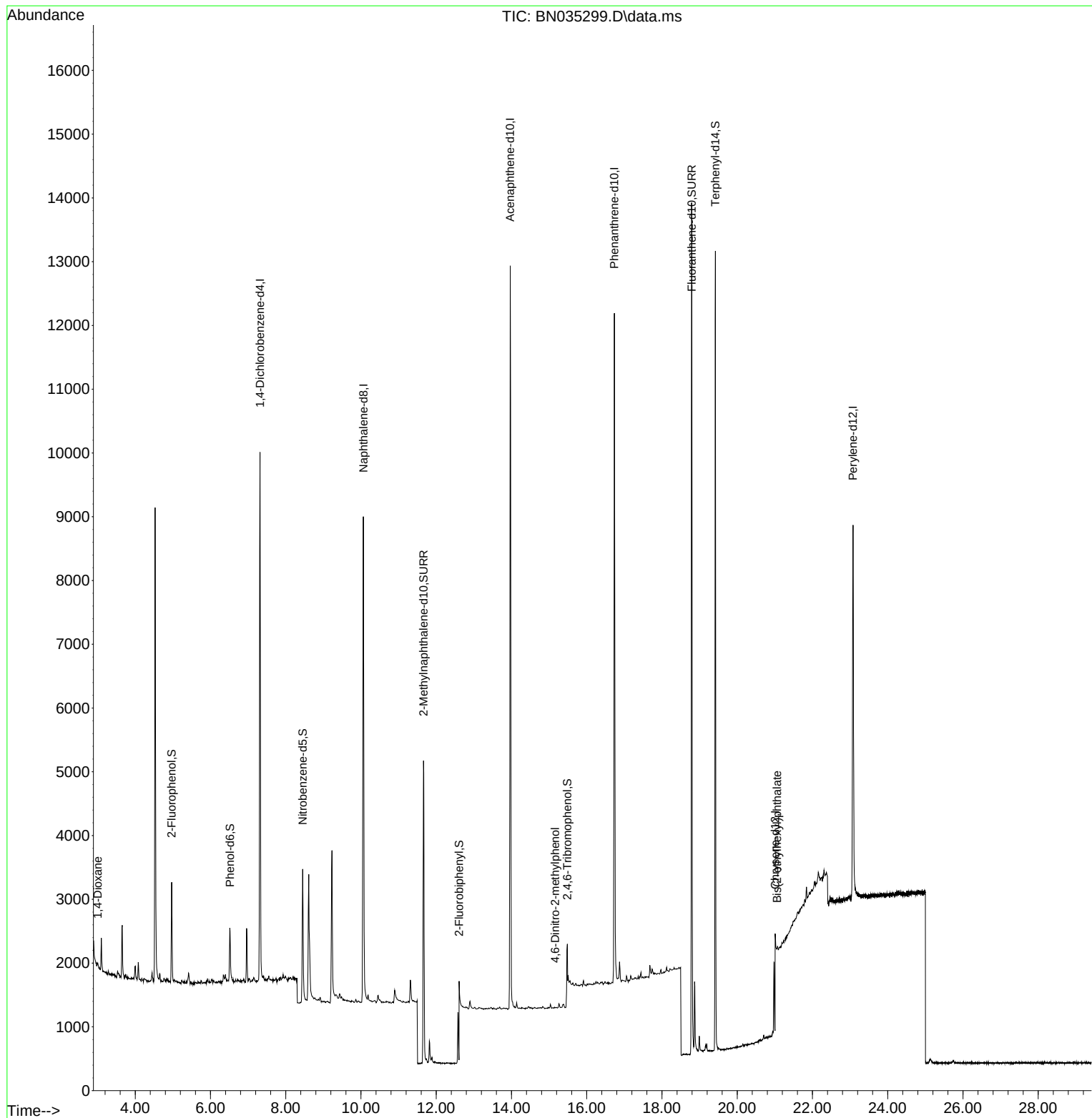
| Compound                      | R.T.   | QIon | Response | Conc  | Units | Dev(Min) |
|-------------------------------|--------|------|----------|-------|-------|----------|
| -----                         |        |      |          |       |       |          |
| Internal Standards            |        |      |          |       |       |          |
| 1) 1,4-Dichlorobenzene-d4     | 7.315  | 152  | 4025     | 0.400 | ng    | 0.00     |
| 7) Naphthalene-d8             | 10.063 | 136  | 10571    | 0.400 | ng    | # 0.00   |
| 13) Acenaphthene-d10          | 13.966 | 164  | 6682     | 0.400 | ng    | #-0.01   |
| 19) Phenanthrene-d10          | 16.734 | 188  | 14026    | 0.400 | ng    | 0.00     |
| 29) Chrysene-d12              | 21.008 | 240  | 880      | 0.400 | ng    | # 0.00   |
| 35) Perylene-d12              | 23.078 | 264  | 7740     | 0.400 | ng    | # 0.00   |
|                               |        |      |          |       |       |          |
| System Monitoring Compounds   |        |      |          |       |       |          |
| 4) 2-Fluorophenol             | 4.968  | 112  | 1297     | 0.171 | ng    | 0.00     |
| 5) Phenol-d6                  | 6.520  | 99   | 900      | 0.085 | ng    | 0.00     |
| 8) Nitrobenzene-d5            | 8.450  | 82   | 2122     | 0.248 | ng    | 0.00     |
| 11) 2-Methylnaphthalene-d10   | 11.663 | 152  | 6676     | 0.451 | ng    | 0.00     |
| 14) 2,4,6-Tribromophenol      | 15.484 | 330  | 972      | 0.285 | ng    | 0.00     |
| 15) 2-Fluorobiphenyl          | 12.608 | 172  | 890      | 0.241 | ng    | 0.00     |
| 27) Fluoranthene-d10          | 18.788 | 212  | 15405    | 0.410 | ng    | 0.00     |
| 31) Terphenyl-d14             | 19.419 | 244  | 11853    | 0.729 | ng    | 0.00     |
|                               |        |      |          |       |       |          |
| Target Compounds              |        |      |          |       |       | Qvalue   |
| 2) 1,4-Dioxane                | 3.003  | 88   | 67       | 0.023 | ng    | # 55     |
| 20) 4,6-Dinitro-2-methylph... | 15.163 | 198  | 6        | 0.193 | ng    | # 1      |
| 34) Bis(2-ethylhexyl)phtha... | 21.062 | 149  | 1573     | 0.934 | ng    | # 62     |
| -----                         |        |      |          |       |       |          |

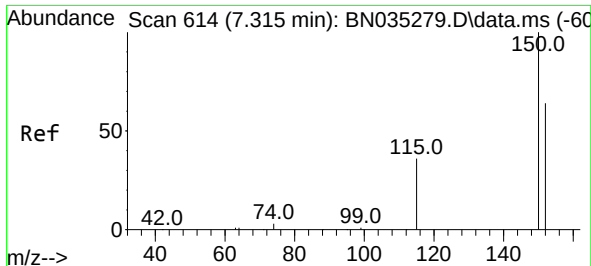
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN112524\  
Data File : BN035299.D  
Acq On : 26 Nov 2024 02:38  
Operator : RC/JU  
Sample : P4959-03  
Misc :  
ALS Vial : 75 Sample Multiplier: 1

Instrument :  
BNA\_N  
ClientSampleId :  
RW5-SP303-20241121

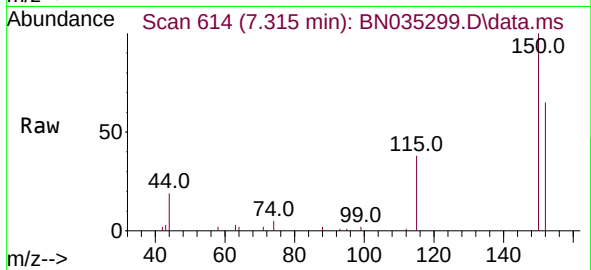
Quant Time: Nov 26 03:33:04 2024  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\8270-SIM-BN112524.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Tue Nov 26 02:36:08 2024  
Response via : Initial Calibration





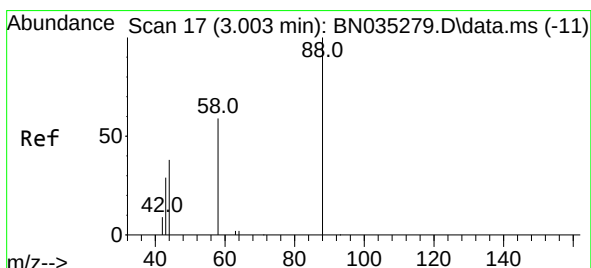
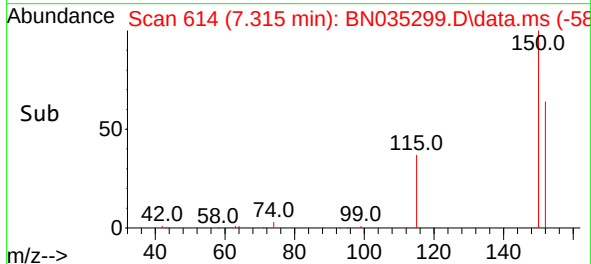
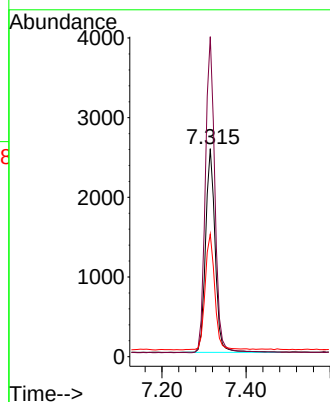
#1  
 1,4-Dichlorobenzene-d4  
 Concen: 0.400 ng  
 RT: 7.315 min Scan# 614  
 Delta R.T. -0.000 min  
 Lab File: BN035299.D  
 Acq: 26 Nov 2024 02:38

Instrument :  
 BNA\_N  
 ClientSampleId :  
 RW5-SP303-20241121



Tgt Ion: 152 Resp: 4025

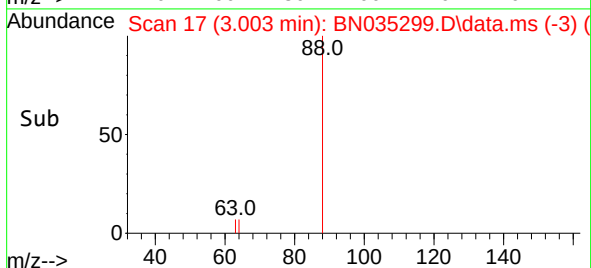
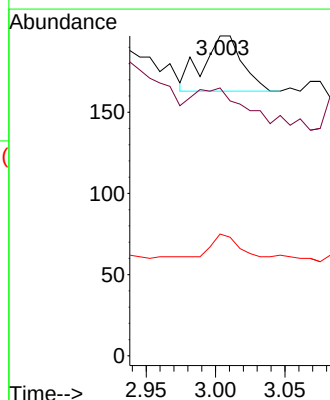
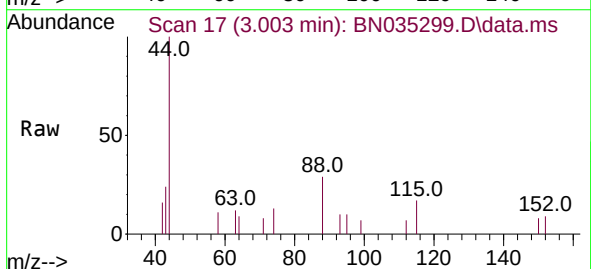
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 152 | 100   |       |       |
| 150 | 153.8 | 124.5 | 186.7 |
| 115 | 58.9  | 47.8  | 71.8  |

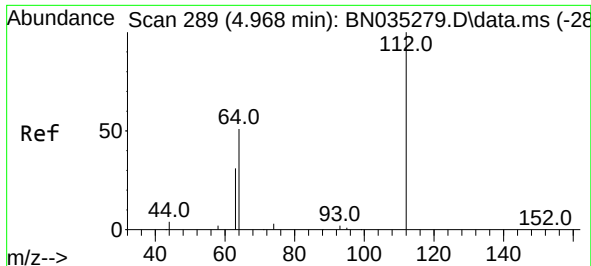


#2  
 1,4-Dioxane  
 Concen: 0.023 ng  
 RT: 3.003 min Scan# 17  
 Delta R.T. 0.000 min  
 Lab File: BN035299.D  
 Acq: 26 Nov 2024 02:38

Tgt Ion: 88 Resp: 67

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 88  | 100   |       |       |
| 43  | 101.5 | 48.1  | 72.1# |
| 58  | 32.8  | 46.9  | 70.3# |

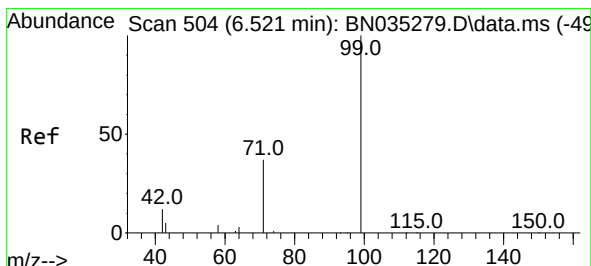
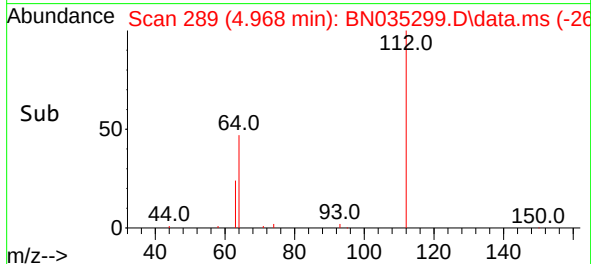
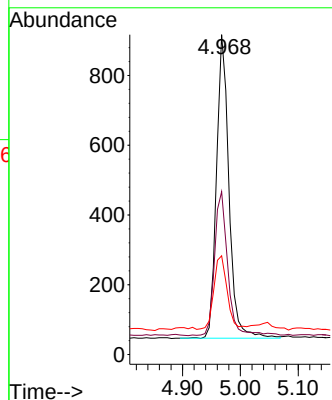
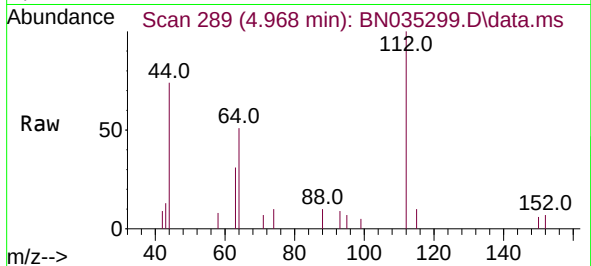




#4  
2-Fluorophenol  
Concen: 0.171 ng  
RT: 4.968 min Scan# 21  
Delta R.T. -0.000 min  
Lab File: BN035299.D  
Acq: 26 Nov 2024 02:38

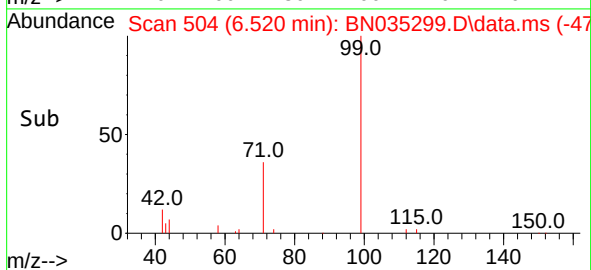
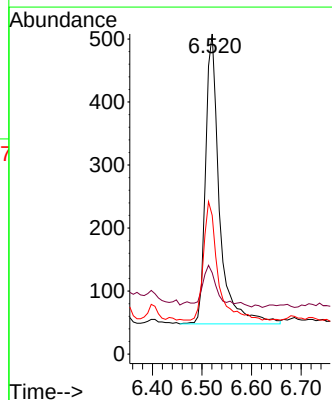
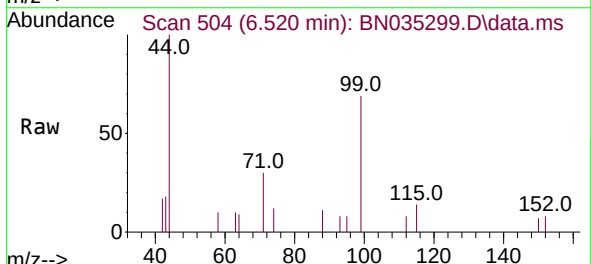
Instrument :  
BNA\_N  
ClientSampleId :  
RW5-SP303-20241121

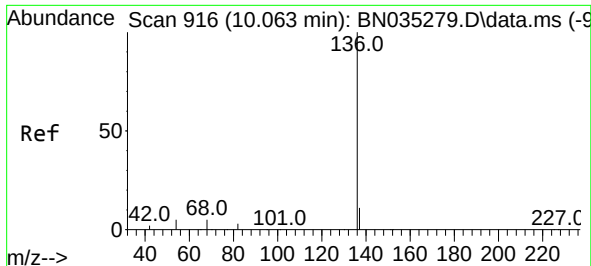
Tgt Ion:112 Resp: 1297  
Ion Ratio Lower Upper  
112 100  
64 50.6 40.4 60.6  
63 26.8 23.8 35.8



#5  
Phenol-d6  
Concen: 0.085 ng  
RT: 6.520 min Scan# 504  
Delta R.T. -0.000 min  
Lab File: BN035299.D  
Acq: 26 Nov 2024 02:38

Tgt Ion: 99 Resp: 900  
Ion Ratio Lower Upper  
99 100  
42 14.9 12.8 19.2  
71 41.7 31.4 47.2

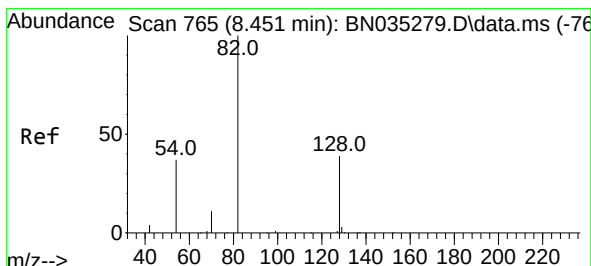
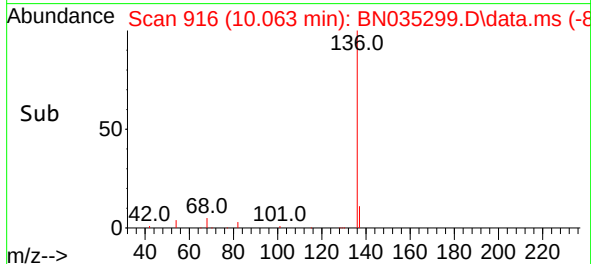
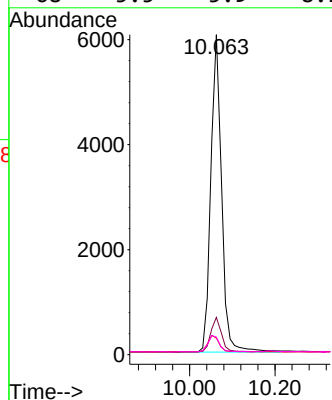
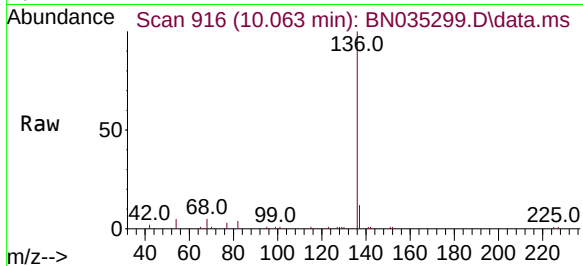




#7  
Naphthalene-d8  
Concen: 0.400 ng  
RT: 10.063 min Scan# 916  
Delta R.T. -0.000 min  
Lab File: BN035299.D  
Acq: 26 Nov 2024 02:38

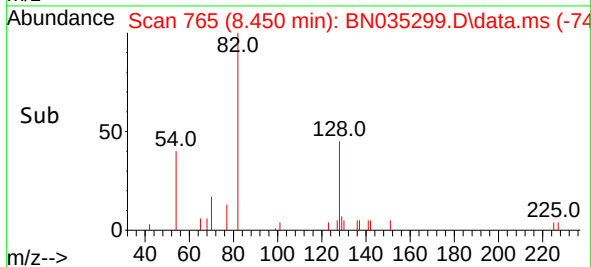
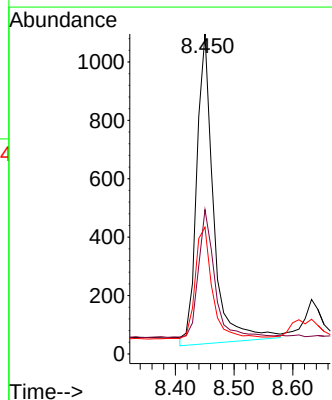
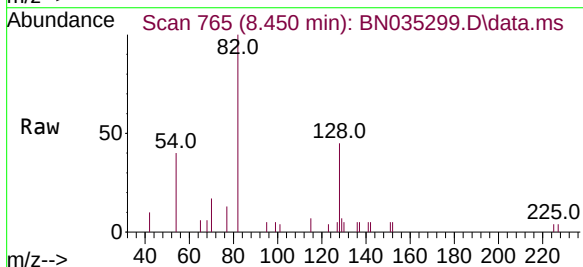
Instrument :  
BNA\_N  
ClientSampleId :  
RW5-SP303-20241121

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 136   | Resp: | 10571 |
| Ion Ratio | Lower | Upper |       |
| 136       | 100   |       |       |
| 137       | 11.7  | 9.7   | 14.5  |
| 54        | 5.2   | 5.3   | 7.9#  |
| 68        | 5.5   | 5.9   | 8.9#  |

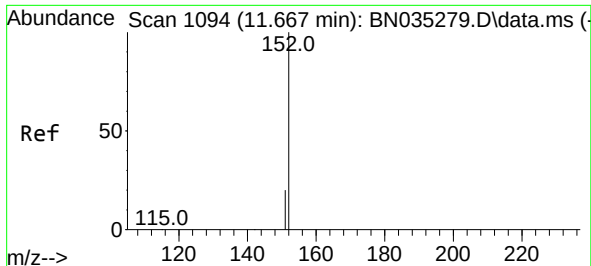


#8  
Nitrobenzene-d5  
Concen: 0.248 ng  
RT: 8.450 min Scan# 765  
Delta R.T. -0.000 min  
Lab File: BN035299.D  
Acq: 26 Nov 2024 02:38

|           |       |       |      |
|-----------|-------|-------|------|
| Tgt Ion:  | 82    | Resp: | 2122 |
| Ion Ratio | Lower | Upper |      |
| 82        | 100   |       |      |
| 128       | 45.1  | 33.0  | 49.4 |
| 54        | 39.6  | 33.3  | 49.9 |



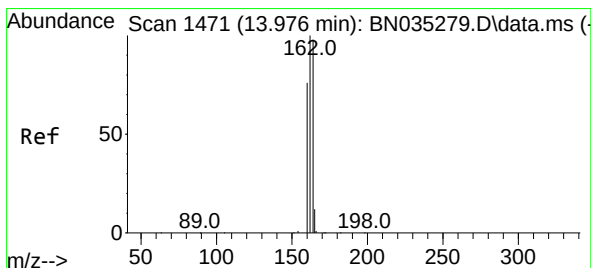
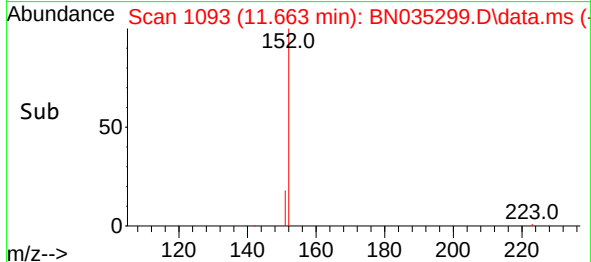
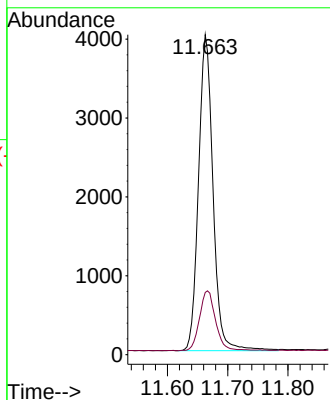
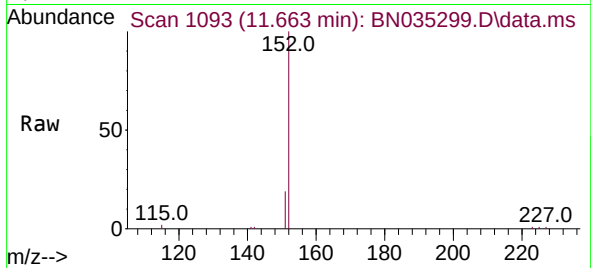




#11  
2-Methylnaphthalene-d10  
Concen: 0.451 ng  
RT: 11.663 min Scan# 1093  
Delta R.T. -0.004 min  
Lab File: BN035299.D  
Acq: 26 Nov 2024 02:38

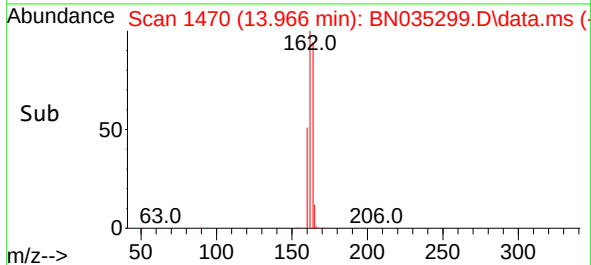
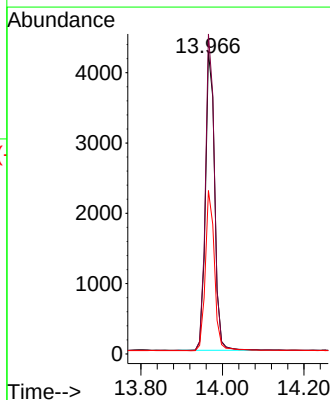
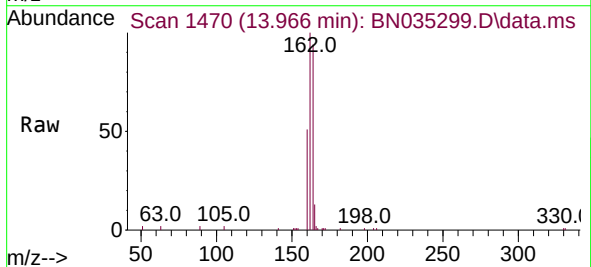
Instrument :  
BNA\_N  
ClientSampleId :  
RW5-SP303-20241121

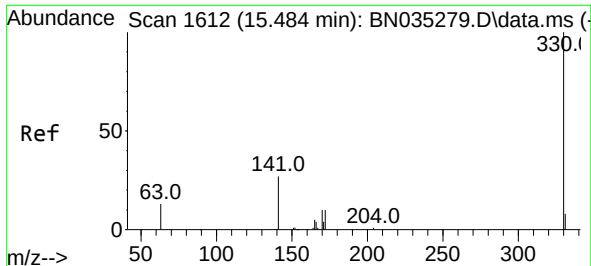
Tgt Ion:152 Resp: 6676  
Ion Ratio Lower Upper  
152 100  
151 21.0 17.2 25.8



#13  
Acenaphthene-d10  
Concen: 0.400 ng  
RT: 13.966 min Scan# 1470  
Delta R.T. -0.011 min  
Lab File: BN035299.D  
Acq: 26 Nov 2024 02:38

Tgt Ion:164 Resp: 6682  
Ion Ratio Lower Upper  
164 100  
162 106.0 82.0 123.0  
160 54.1 63.0 94.4#

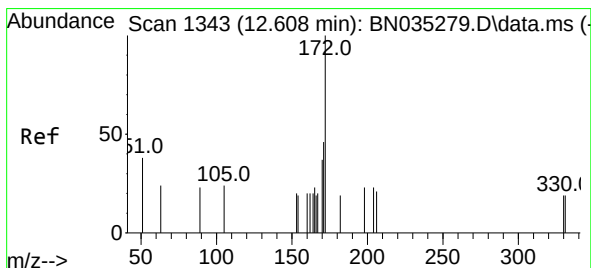
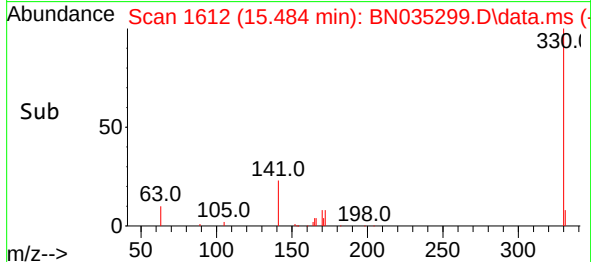
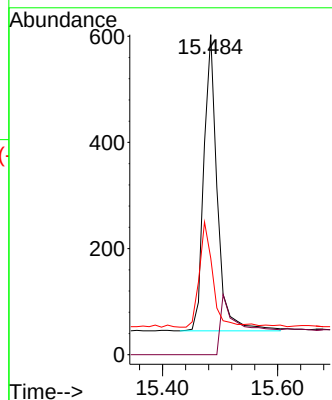
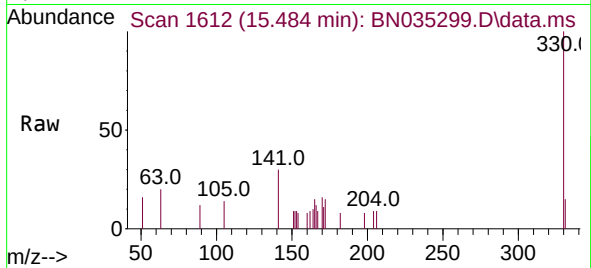




#14  
2,4,6-Tribromophenol  
Concen: 0.285 ng  
RT: 15.484 min Scan# 1612  
Delta R.T. -0.000 min  
Lab File: BN035299.D  
Acq: 26 Nov 2024 02:38

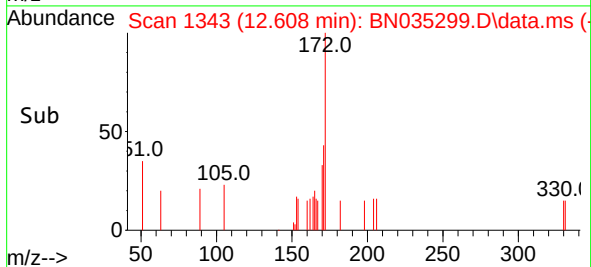
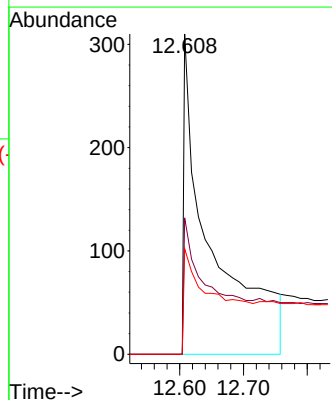
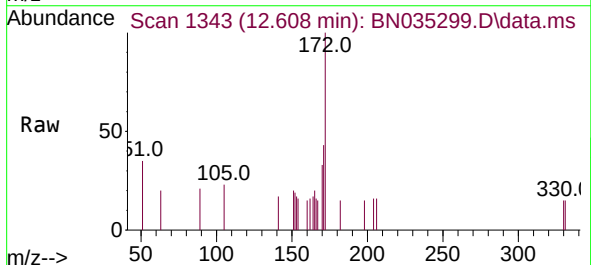
Instrument :  
BNA\_N  
ClientSampleId :  
RW5-SP303-20241121

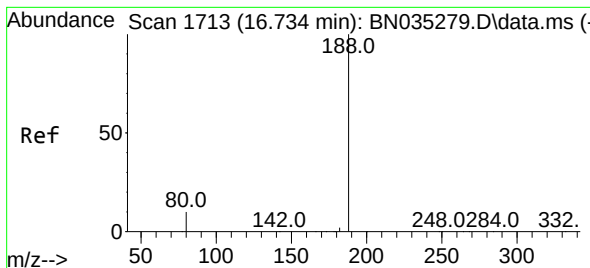
Tgt Ion:330 Resp: 972  
Ion Ratio Lower Upper  
330 100  
332 0.0 0.0 0.0  
141 36.7 32.4 48.6



#15  
2-Fluorobiphenyl  
Concen: 0.241 ng  
RT: 12.608 min Scan# 1343  
Delta R.T. -0.000 min  
Lab File: BN035299.D  
Acq: 26 Nov 2024 02:38

Tgt Ion:172 Resp: 890  
Ion Ratio Lower Upper  
172 100  
171 42.6 36.6 55.0  
170 32.9 29.7 44.5





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 16.734 min Scan# 1

Delta R.T. -0.000 min

Lab File: BN035299.D

Acq: 26 Nov 2024 02:38

Instrument :

BNA\_N

ClientSampleId :

RW5-SP303-20241121

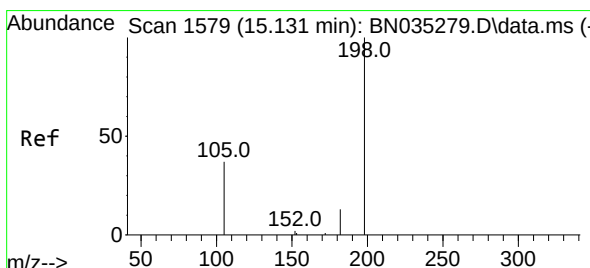
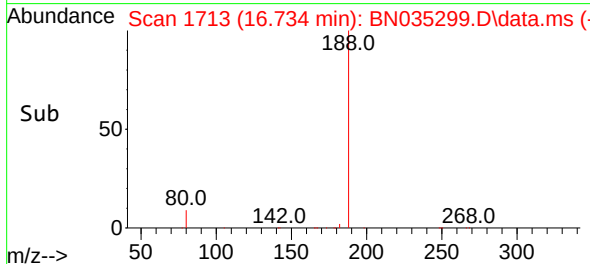
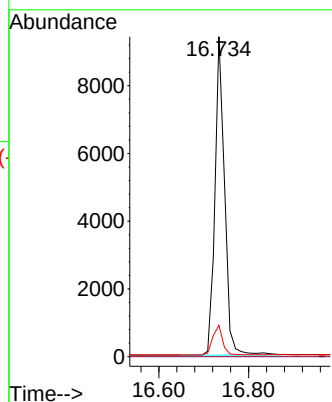
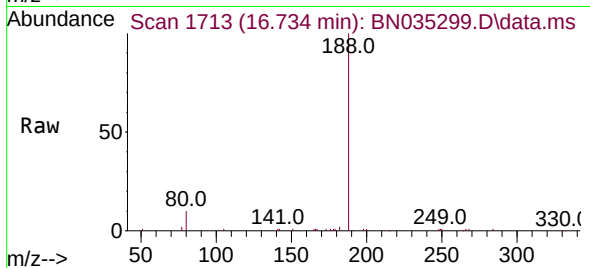
Tgt Ion:188 Resp: 14026

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 9.8 8.9 13.3



#20

4,6-Dinitro-2-methylphenol

Concen: 0.193 ng

RT: 15.163 min Scan# 1582

Delta R.T. 0.032 min

Lab File: BN035299.D

Acq: 26 Nov 2024 02:38

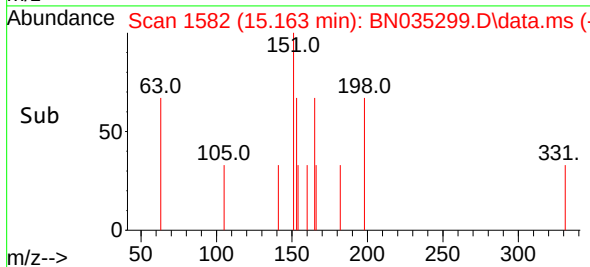
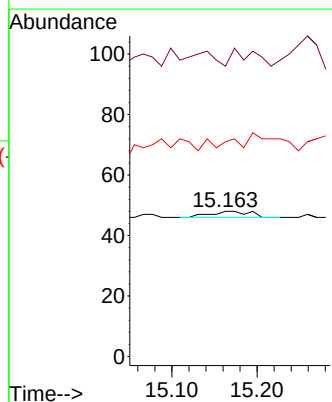
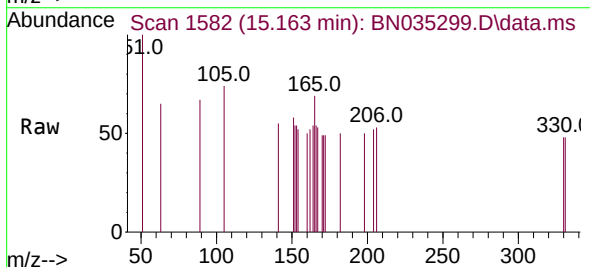
Tgt Ion:198 Resp: 6

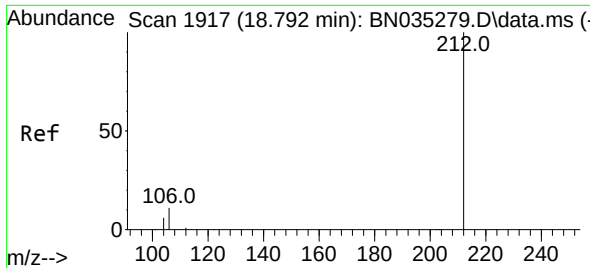
Ion Ratio Lower Upper

198 100

51 200.0 53.6 80.4#

105 147.9 47.4 71.2#

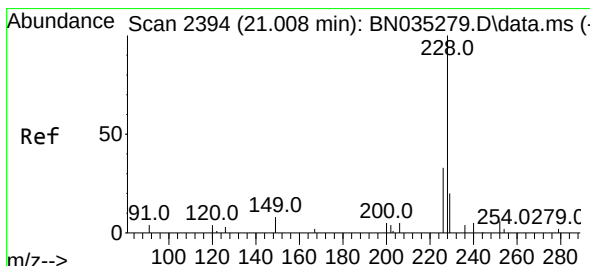
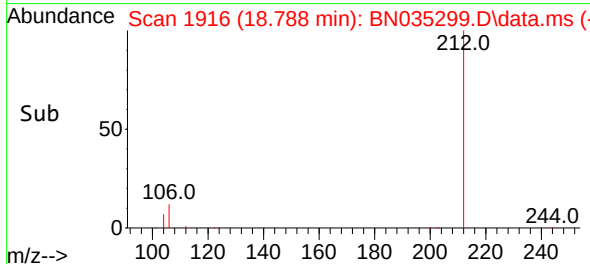
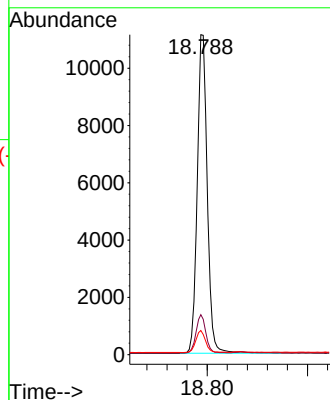
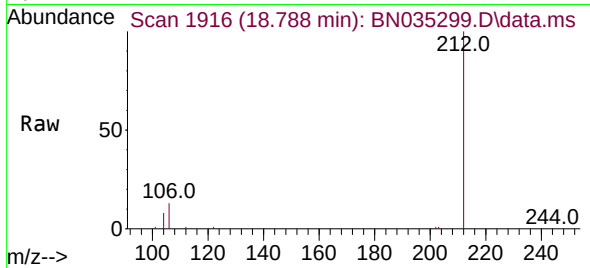




#27  
Fluoranthene-d10  
Concen: 0.410 ng  
RT: 18.788 min Scan# 1916  
Delta R.T. -0.005 min  
Lab File: BN035299.D  
Acq: 26 Nov 2024 02:38

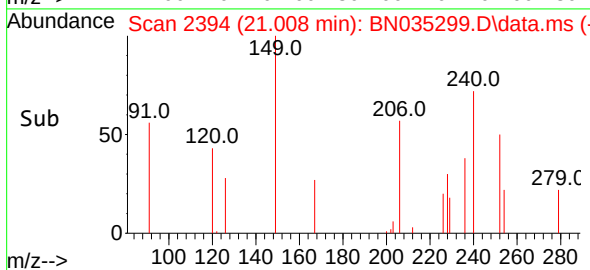
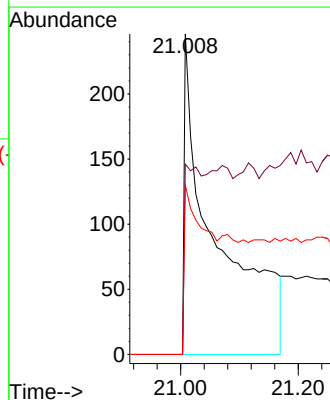
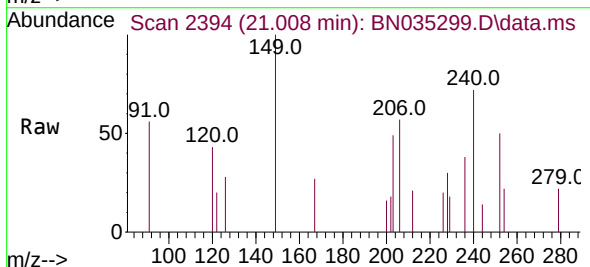
Instrument :  
BNA\_N  
ClientSampleId :  
RW5-SP303-20241121

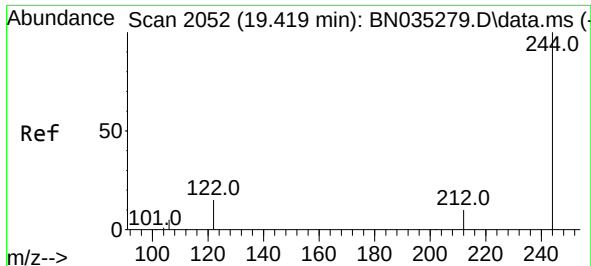
Tgt Ion:212 Resp: 15405  
Ion Ratio Lower Upper  
212 100  
106 11.7 9.8 14.8  
104 6.8 5.6 8.4



#29  
Chrysene-d12  
Concen: 0.400 ng  
RT: 21.008 min Scan# 2394  
Delta R.T. -0.000 min  
Lab File: BN035299.D  
Acq: 26 Nov 2024 02:38

Tgt Ion:240 Resp: 880  
Ion Ratio Lower Upper  
240 100  
120 59.3 54.9 82.3  
236 52.8 54.0 81.0#

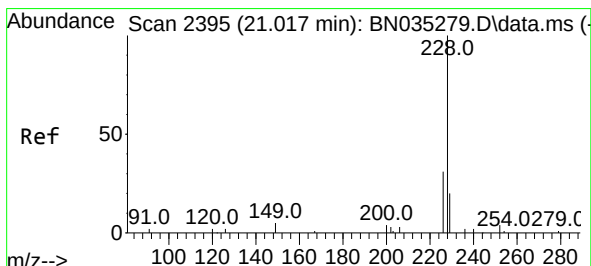
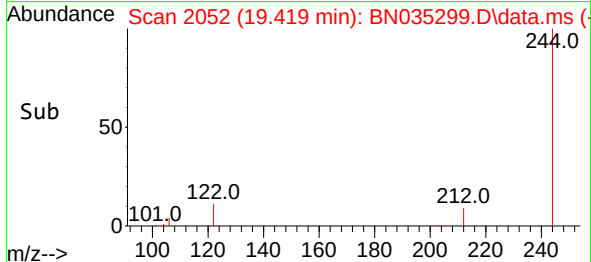
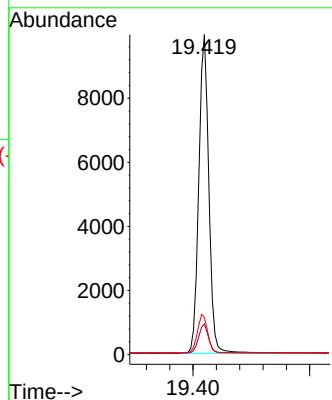
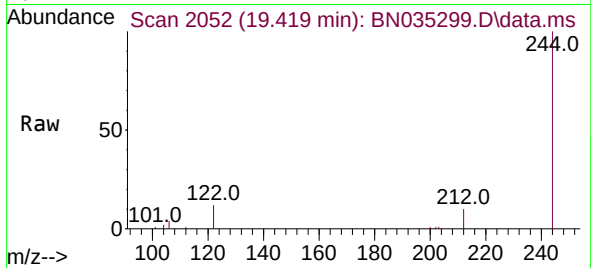




#31  
 Terphenyl-d14  
 Concen: 0.729 ng  
 RT: 19.419 min Scan# 2052  
 Delta R.T. 0.000 min  
 Lab File: BN035299.D  
 Acq: 26 Nov 2024 02:38

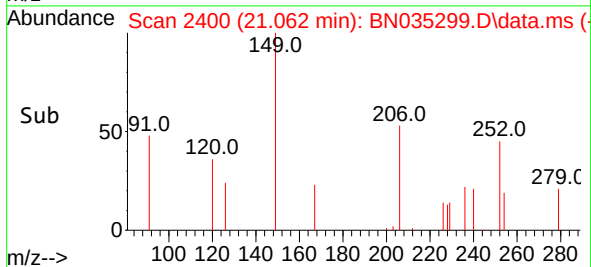
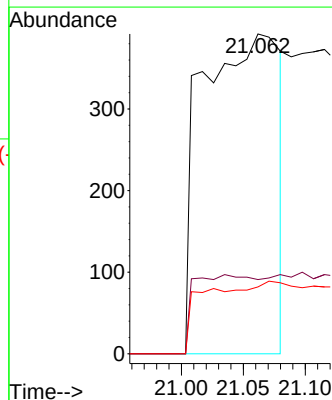
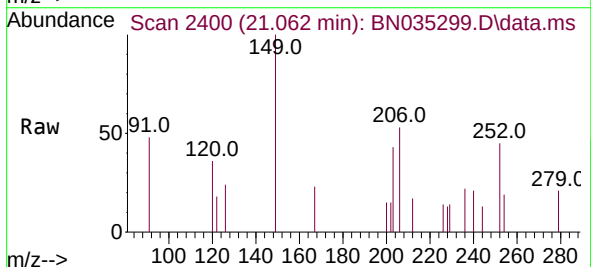
Instrument :  
 BNA\_N  
 ClientSampleId :  
 RW5-SP303-20241121

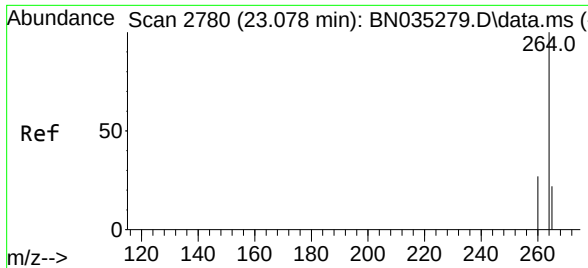
Tgt Ion:244 Resp: 11853  
 Ion Ratio Lower Upper  
 244 100  
 212 9.6 9.4 14.0  
 122 11.7 13.0 19.4#



#34  
 Bis(2-ethylhexyl)phthalate  
 Concen: 0.934 ng  
 RT: 21.062 min Scan# 2400  
 Delta R.T. 0.045 min  
 Lab File: BN035299.D  
 Acq: 26 Nov 2024 02:38

Tgt Ion:149 Resp: 1573  
 Ion Ratio Lower Upper  
 149 100  
 167 0.0 0.0 0.0  
 279 0.0 13.0 19.6#

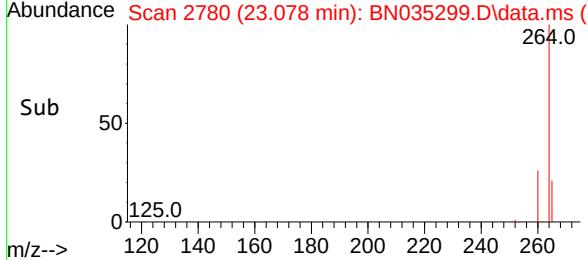
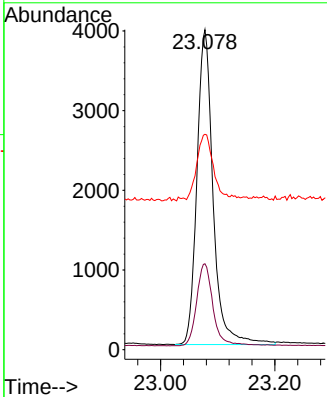
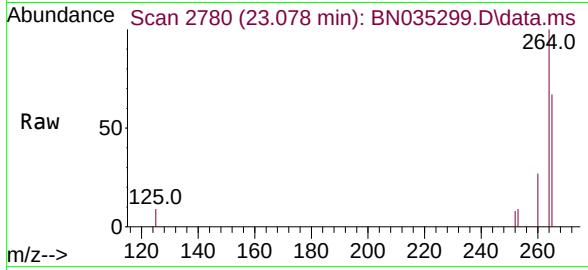




#35  
Perylene-d12  
Concen: 0.400 ng  
RT: 23.078 min Scan# 21  
Delta R.T. -0.000 min  
Lab File: BN035299.D  
Acq: 26 Nov 2024 02:38

Instrument :  
BNA\_N  
ClientSampleId :  
RW5-SP303-20241121

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 264   | Resp: | 7740   |
| Ion Ratio | Lower | Upper |        |
| 264       | 100   |       |        |
| 260       | 26.8  | 22.3  | 33.5   |
| 265       | 67.3  | 68.6  | 103.0# |



Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN112524\  
 Data File : BN035300.D  
 Acq On : 26 Nov 2024 03:14  
 Operator : RC/JU  
 Sample : SSTDCCC0.4  
 Misc :  
 ALS Vial : 76 Sample Multiplier: 1

Instrument :  
 BNA\_N  
 ClientSampleId :  
 SSTDCCC0.4EC

Quant Time: Nov 26 04:38:57 2024  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\8270-SIM-BN112524.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Tue Nov 26 02:36:08 2024  
 Response via : Initial Calibration

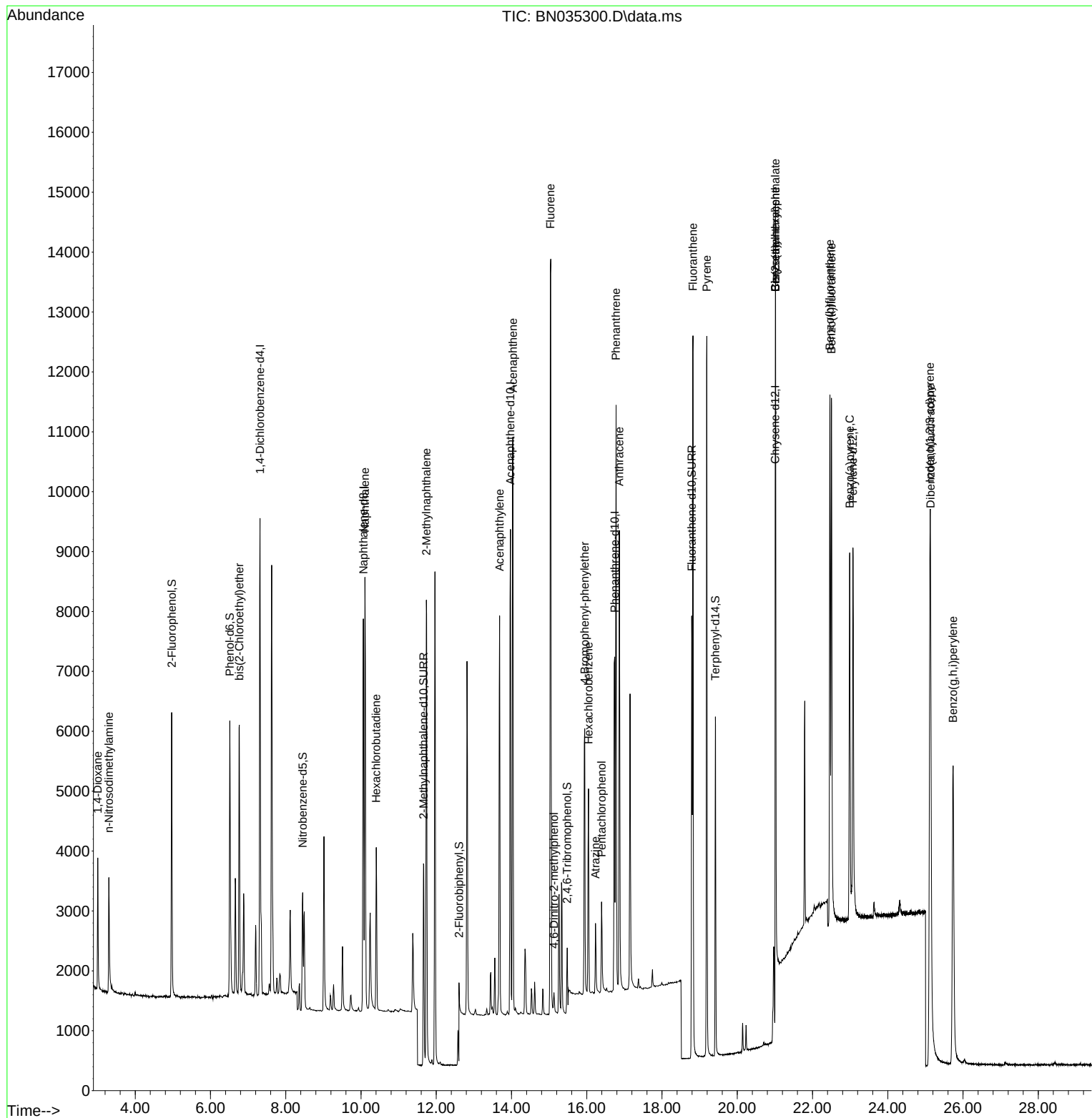
| Compound                      | R.T.   | QIon | Response | Conc  | Units | Dev(Min) |
|-------------------------------|--------|------|----------|-------|-------|----------|
| -----                         |        |      |          |       |       |          |
| Internal Standards            |        |      |          |       |       |          |
| 1) 1,4-Dichlorobenzene-d4     | 7.315  | 152  | 3805     | 0.400 | ng    | 0.00     |
| 7) Naphthalene-d8             | 10.063 | 136  | 8746     | 0.400 | ng    | # 0.00   |
| 13) Acenaphthene-d10          | 13.973 | 164  | 4650     | 0.400 | ng    | # 0.00   |
| 19) Phenanthrene-d10          | 16.741 | 188  | 8944     | 0.400 | ng    | # 0.00   |
| 29) Chrysene-d12              | 21.006 | 240  | 871      | 0.400 | ng    | # 0.00   |
| 35) Perylene-d12              | 23.075 | 264  | 8001     | 0.400 | ng    | # 0.00   |
|                               |        |      |          |       |       |          |
| System Monitoring Compounds   |        |      |          |       |       |          |
| 4) 2-Fluorophenol             | 4.968  | 112  | 3847     | 0.535 | ng    | 0.00     |
| 5) Phenol-d6                  | 6.513  | 99   | 4573     | 0.455 | ng    | 0.00     |
| 8) Nitrobenzene-d5            | 8.450  | 82   | 1947     | 0.275 | ng    | 0.00     |
| 11) 2-Methylnaphthalene-d10   | 11.663 | 152  | 4853     | 0.396 | ng    | 0.00     |
| 14) 2,4,6-Tribromophenol      | 15.480 | 330  | 969      | 0.408 | ng    | 0.00     |
| 15) 2-Fluorobiphenyl          | 12.604 | 172  | 795      | 0.310 | ng    | 0.00     |
| 27) Fluoranthene-d10          | 18.790 | 212  | 8444     | 0.353 | ng    | 0.00     |
| 31) Terphenyl-d14             | 19.422 | 244  | 5811     | 0.361 | ng    | 0.00     |
|                               |        |      |          |       |       |          |
| Target Compounds              |        |      |          |       |       | Qvalue   |
| 2) 1,4-Dioxane                | 3.003  | 88   | 1488     | 0.544 | ng    | # 71     |
| 3) n-Nitrosodimethylamine     | 3.299  | 42   | 1097     | 0.387 | ng    | # 64     |
| 6) bis(2-Chloroethyl)ether    | 6.766  | 93   | 3676     | 0.435 | ng    | 98       |
| 9) Naphthalene                | 10.105 | 128  | 9278     | 0.382 | ng    | 99       |
| 10) Hexachlorobutadiene       | 10.404 | 225  | 2190     | 0.321 | ng    | # 99     |
| 12) 2-Methylnaphthalene       | 11.738 | 142  | 5885     | 0.371 | ng    | 99       |
| 16) Acenaphthylene            | 13.684 | 152  | 7671     | 0.328 | ng    | 100      |
| 17) Acenaphthene              | 14.037 | 154  | 5129     | 0.348 | ng    | # 85     |
| 18) Fluorene                  | 15.031 | 166  | 6559     | 0.318 | ng    | 97       |
| 20) 4,6-Dinitro-2-methylph... | 15.127 | 198  | 319      | 0.436 | ng    | 93       |
| 21) 4-Bromophenyl-phenylether | 15.946 | 248  | 2233     | 0.394 | ng    | # 78     |
| 22) Hexachlorobenzene         | 16.046 | 284  | 2720     | 0.335 | ng    | 98       |
| 23) Atrazine                  | 16.232 | 200  | 1031     | 0.431 | ng    | 98       |
| 24) Pentachlorophenol         | 16.393 | 266  | 878      | 0.450 | ng    | 98       |
| 25) Phenanthrene              | 16.778 | 178  | 9774     | 0.356 | ng    | 100      |
| 26) Anthracene                | 16.865 | 178  | 8425     | 0.357 | ng    | 100      |
| 28) Fluoranthene              | 18.822 | 202  | 11052    | 0.319 | ng    | 99       |
| 30) Pyrene                    | 19.189 | 202  | 11118    | 0.351 | ng    | 99       |
| 32) Benzo(a)anthracene        | 21.015 | 228  | 10362    | 0.342 | ng    | 99       |
| 33) Chrysene                  | 21.015 | 228  | 10362    | 0.342 | ng    | 99       |
| 34) Bis(2-ethylhexyl)phtha... | 21.015 | 149  | 596      | 0.358 | ng    | # 98     |
| 36) Indeno(1,2,3-cd)pyrene    | 25.122 | 276  | 12330    | 0.376 | ng    | 99       |
| 37) Benzo(b)fluoranthene      | 22.461 | 252  | 10486    | 0.302 | ng    | 98       |
| 38) Benzo(k)fluoranthene      | 22.502 | 252  | 11527    | 0.313 | ng    | 98       |
| 39) Benzo(a)pyrene            | 22.988 | 252  | 8958     | 0.337 | ng    | 96       |
| 40) Dibenzo(a,h)anthracene    | 25.137 | 278  | 9558     | 0.386 | ng    | 95       |
| 41) Benzo(g,h,i)perylene      | 25.736 | 276  | 10647    | 0.372 | ng    | 97       |
| -----                         |        |      |          |       |       |          |

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

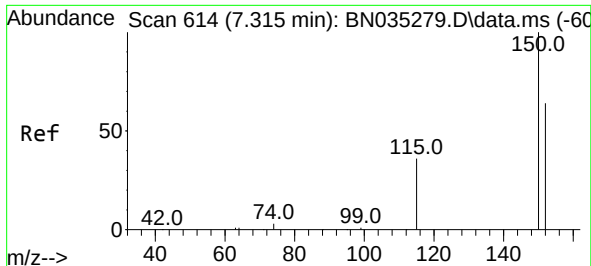
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Data File : BN035300.D  
Acq On : 26 Nov 2024 03:14  
Operator : RC/JU  
Sample : SSTDCCC0.4  
Misc :  
ALS Vial : 76 Sample Multiplier: 1

Instrument :  
BNA\_N  
ClientSampleId :  
SSTDCCC0.4EC

Quant Time: Nov 26 04:38:57 2024  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\8270-SIM-BN112524.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Tue Nov 26 02:36:08 2024  
Response via : Initial Calibration

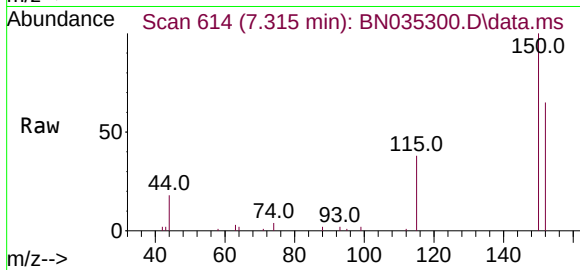




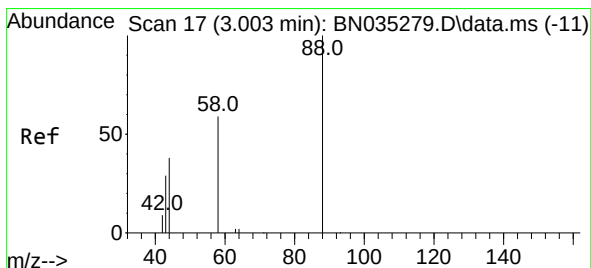
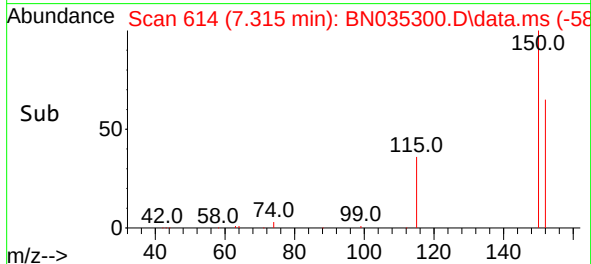
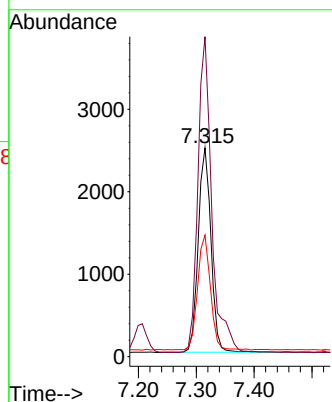


#1  
 1,4-Dichlorobenzene-d4  
 Concen: 0.400 ng  
 RT: 7.315 min Scan# 61  
 Delta R.T. 0.000 min  
 Lab File: BN035300.D  
 Acq: 26 Nov 2024 03:14

Instrument :  
 BNA\_N  
 ClientSampleId :  
 SSTDCCC0.4EC

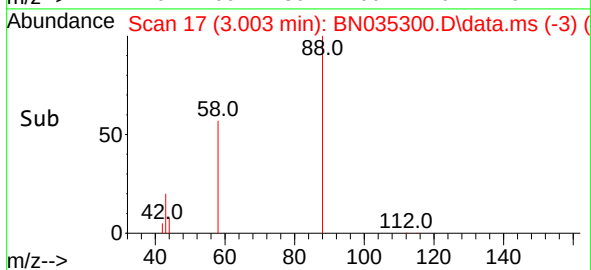
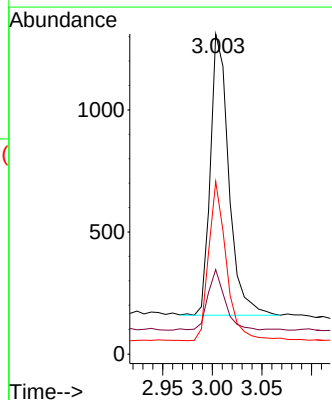
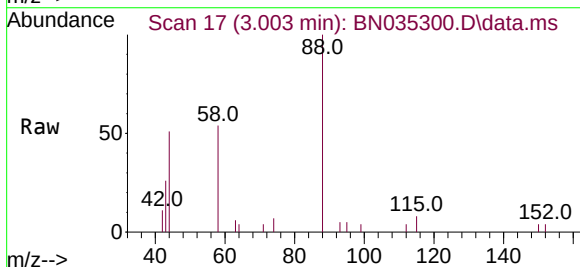


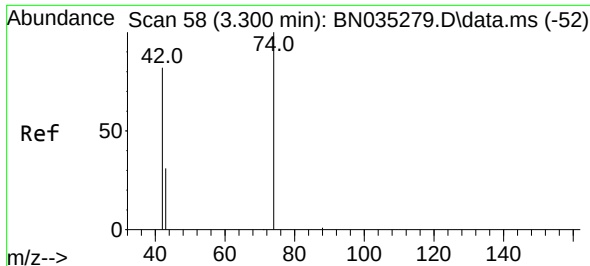
Tgt Ion:152 Resp: 3805  
 Ion Ratio Lower Upper  
 152 100  
 150 153.3 124.5 186.7  
 115 58.3 47.8 71.8



#2  
 1,4-Dioxane  
 Concen: 0.544 ng  
 RT: 3.003 min Scan# 17  
 Delta R.T. 0.000 min  
 Lab File: BN035300.D  
 Acq: 26 Nov 2024 03:14

Tgt Ion: 88 Resp: 1488  
 Ion Ratio Lower Upper  
 88 100  
 43 20.2 48.1 72.1#  
 58 54.6 46.9 70.3

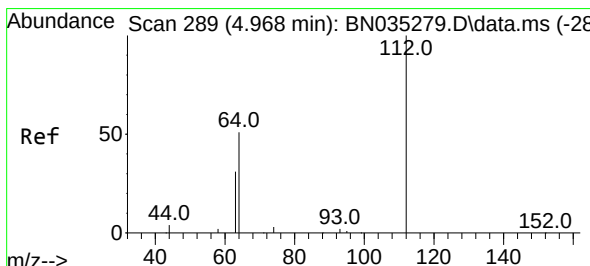
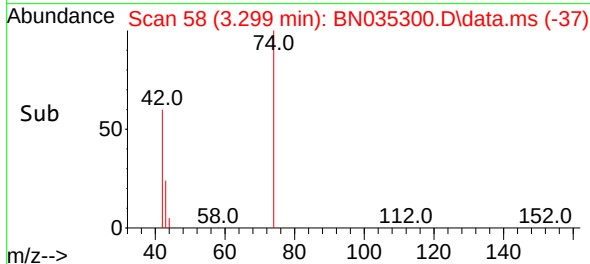
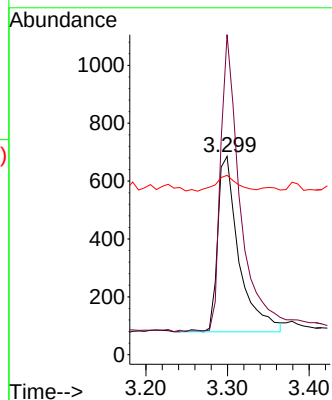
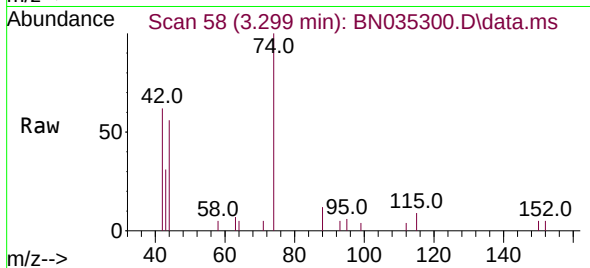




#3  
n-Nitrosodimethylamine  
Concen: 0.387 ng  
RT: 3.299 min Scan# 58  
Delta R.T. -0.001 min  
Lab File: BN035300.D  
Acq: 26 Nov 2024 03:14

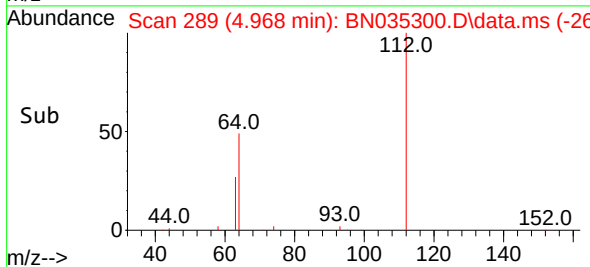
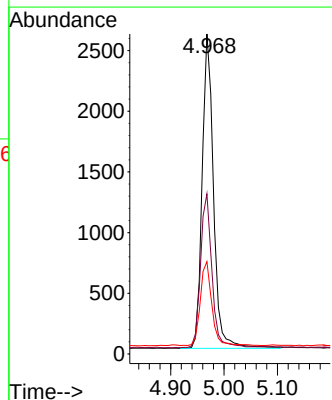
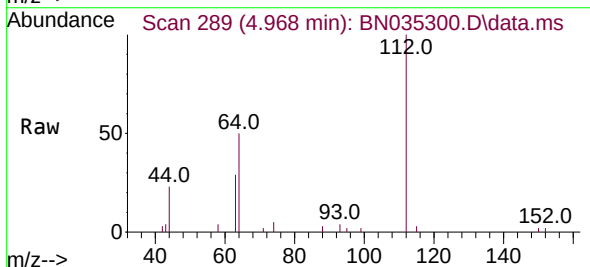
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDCCC0.4EC

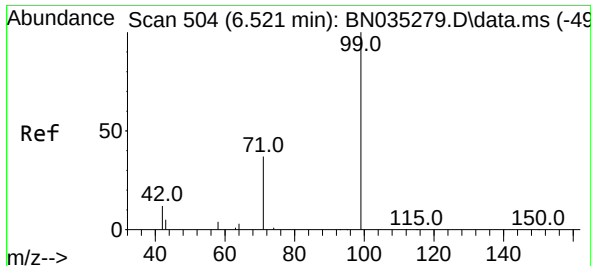
Tgt Ion: 42 Resp: 1097  
Ion Ratio Lower Upper  
42 100  
74 163.7 102.7 154.1#  
44 9.3 34.1 51.1#



#4  
2-Fluorophenol  
Concen: 0.535 ng  
RT: 4.968 min Scan# 289  
Delta R.T. -0.000 min  
Lab File: BN035300.D  
Acq: 26 Nov 2024 03:14

Tgt Ion: 112 Resp: 3847  
Ion Ratio Lower Upper  
112 100  
64 49.1 40.4 60.6  
63 26.8 23.8 35.8

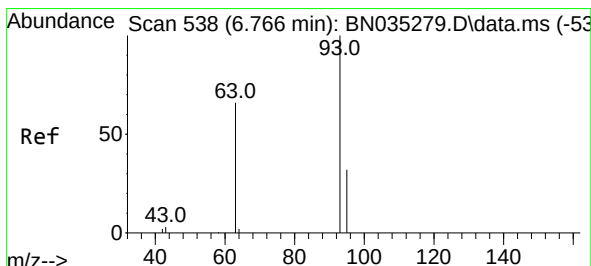
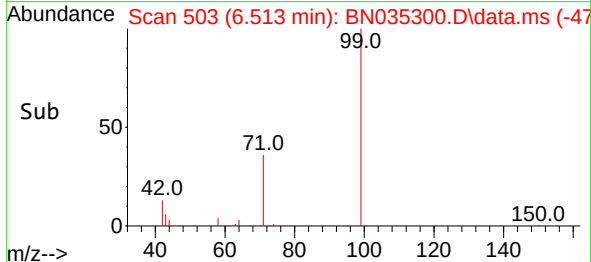
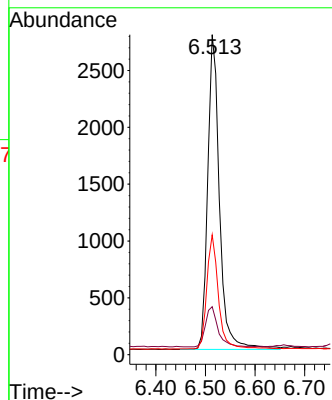
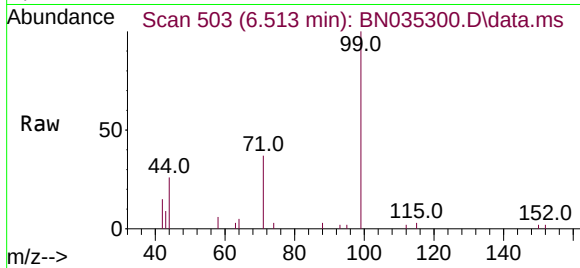




#5  
Phenol-d6  
Concen: 0.455 ng  
RT: 6.513 min Scan# 504  
Delta R.T. -0.007 min  
Lab File: BN035300.D  
Acq: 26 Nov 2024 03:14

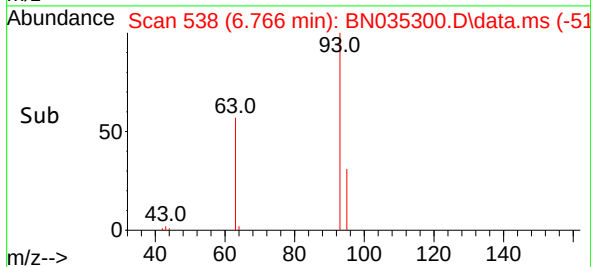
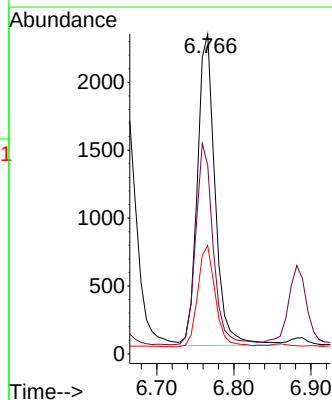
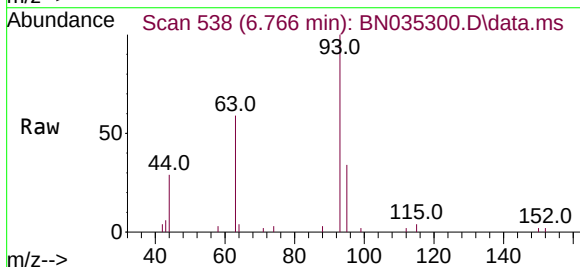
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDCCC0.4EC

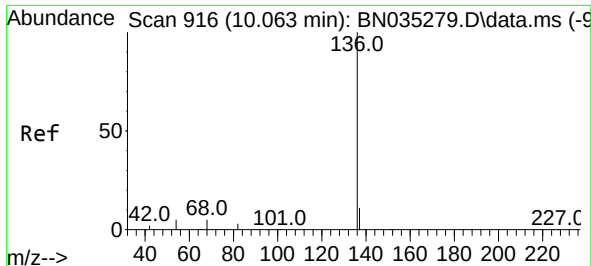
Tgt Ion: 99 Resp: 4573  
Ion Ratio Lower Upper  
99 100  
42 13.6 12.8 19.2  
71 35.7 31.4 47.2



#6  
bis(2-Chloroethyl)ether  
Concen: 0.435 ng  
RT: 6.766 min Scan# 538  
Delta R.T. -0.000 min  
Lab File: BN035300.D  
Acq: 26 Nov 2024 03:14

Tgt Ion: 93 Resp: 3676  
Ion Ratio Lower Upper  
93 100  
63 63.3 52.3 78.5  
95 32.3 25.5 38.3

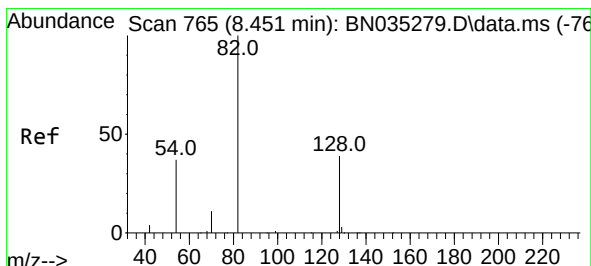
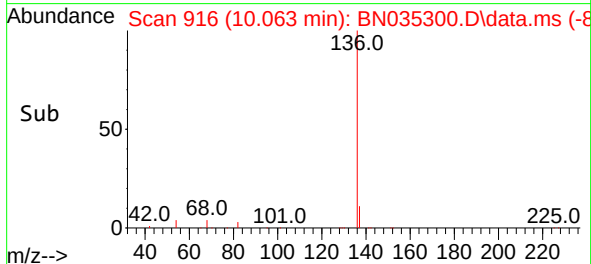
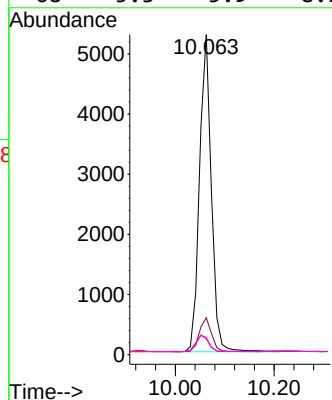
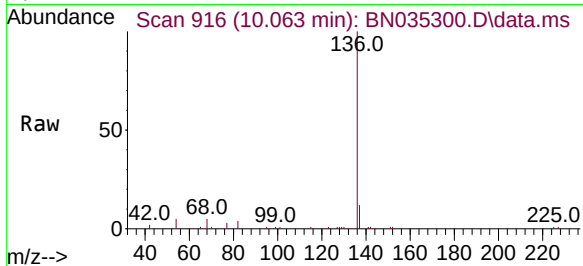




#7  
Naphthalene-d8  
Concen: 0.400 ng  
RT: 10.063 min Scan# 916  
Delta R.T. -0.000 min  
Lab File: BN035300.D  
Acq: 26 Nov 2024 03:14

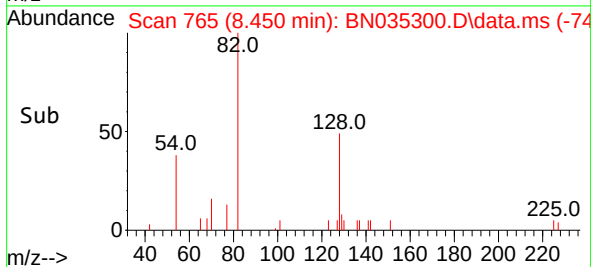
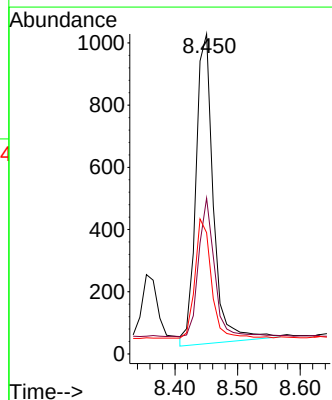
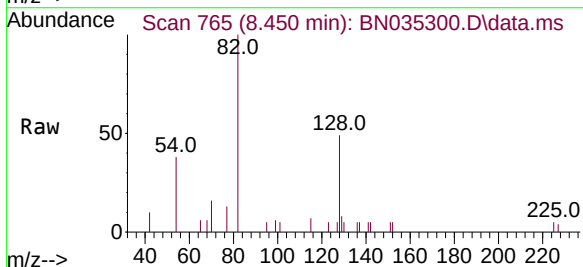
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDCCC0.4EC

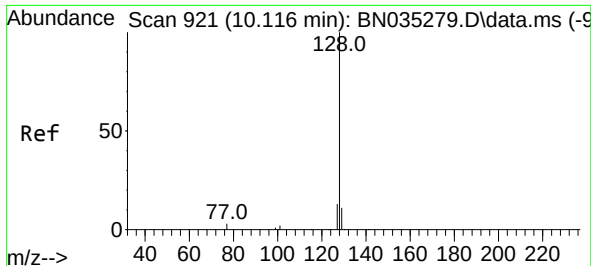
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 136   | Resp: | 8746  |
| Ion      | Ratio | Lower | Upper |
| 136      | 100   |       |       |
| 137      | 11.5  | 9.7   | 14.5  |
| 54       | 5.0   | 5.3   | 7.9#  |
| 68       | 5.3   | 5.9   | 8.9#  |



#8  
Nitrobenzene-d5  
Concen: 0.275 ng  
RT: 8.450 min Scan# 765  
Delta R.T. -0.000 min  
Lab File: BN035300.D  
Acq: 26 Nov 2024 03:14

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 82    | Resp: | 1947  |
| Ion      | Ratio | Lower | Upper |
| 82       | 100   |       |       |
| 128      | 48.7  | 33.0  | 49.4  |
| 54       | 37.9  | 33.3  | 49.9  |

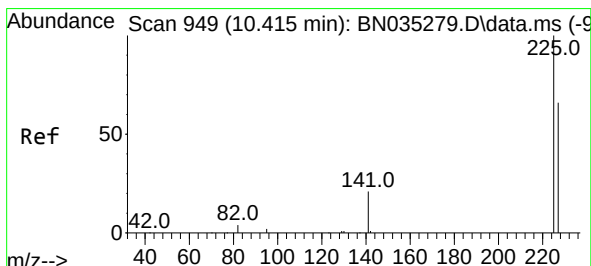
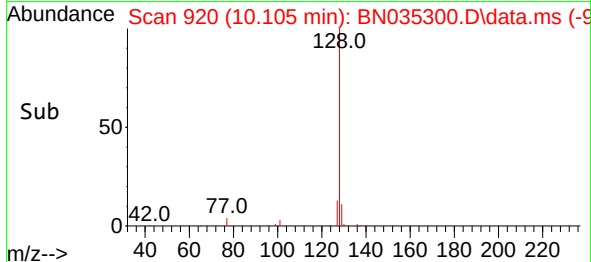
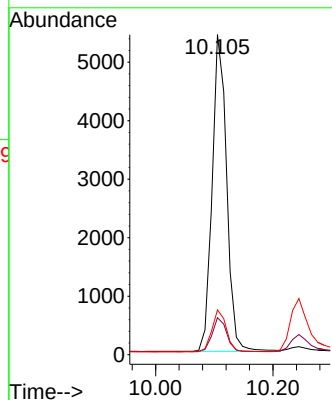
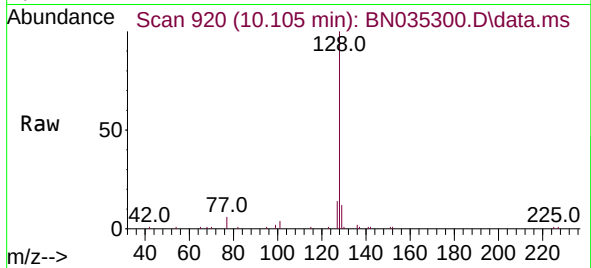




#9  
Naphthalene  
Concen: 0.382 ng  
RT: 10.105 min Scan# 91  
Delta R.T. -0.011 min  
Lab File: BN035300.D  
Acq: 26 Nov 2024 03:14

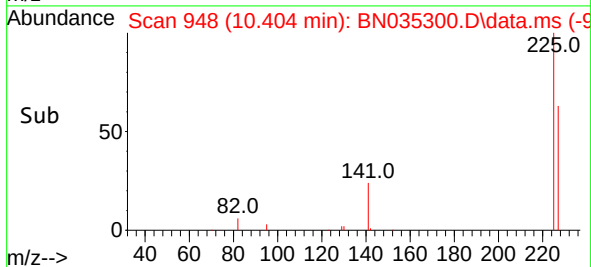
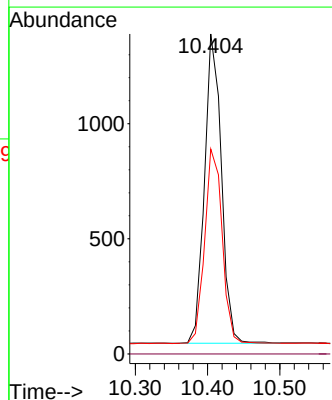
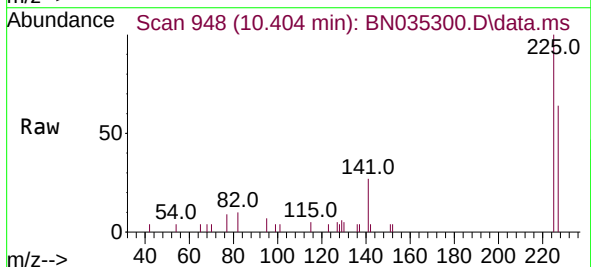
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDCCC0.4EC

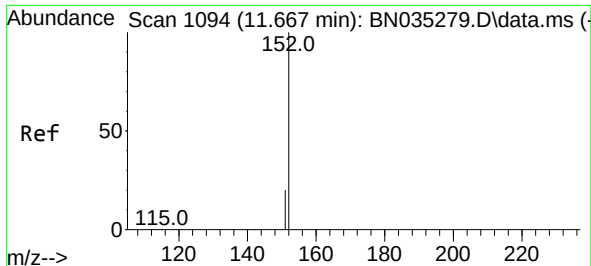
Tgt Ion:128 Resp: 9278  
Ion Ratio Lower Upper  
128 100  
129 11.6 9.6 14.4  
127 14.0 11.3 16.9



#10  
Hexachlorobutadiene  
Concen: 0.321 ng  
RT: 10.404 min Scan# 948  
Delta R.T. -0.011 min  
Lab File: BN035300.D  
Acq: 26 Nov 2024 03:14

Tgt Ion:225 Resp: 2190  
Ion Ratio Lower Upper  
225 100  
223 0.0 0.0 0.0  
227 65.2 51.3 76.9

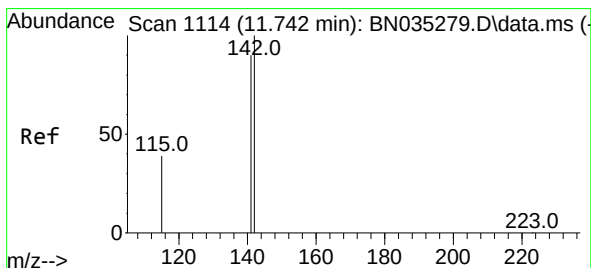
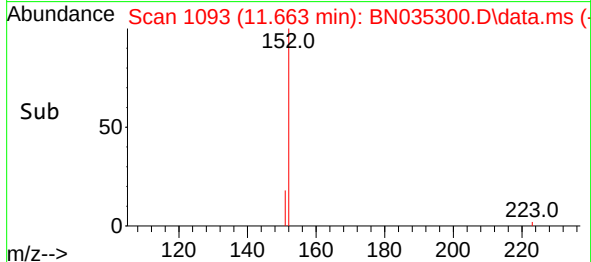
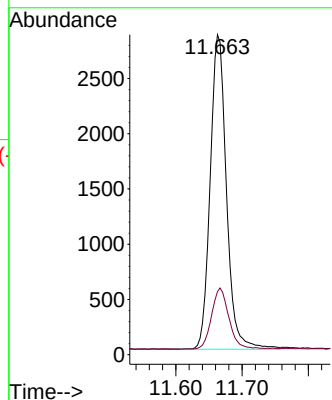
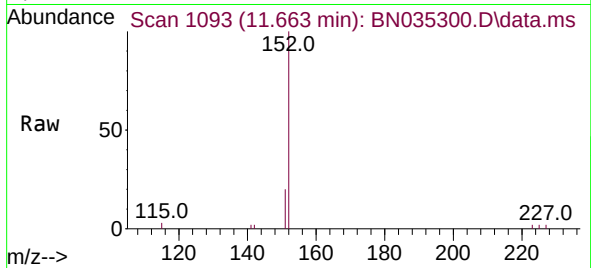




#11  
2-Methylnaphthalene-d10  
Concen: 0.396 ng  
RT: 11.663 min Scan# 1109  
Delta R.T. -0.004 min  
Lab File: BN035300.D  
Acq: 26 Nov 2024 03:14

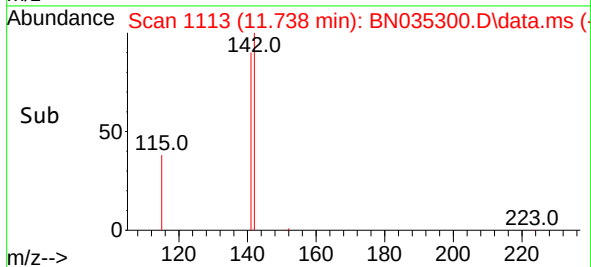
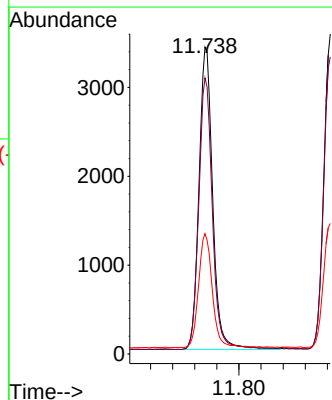
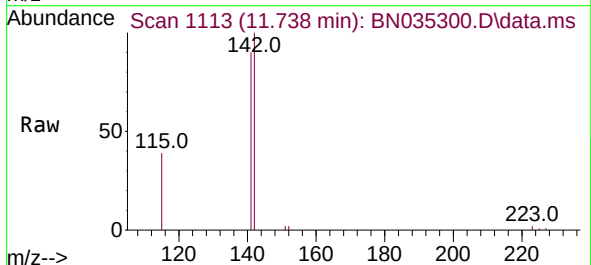
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDCCC0.4EC

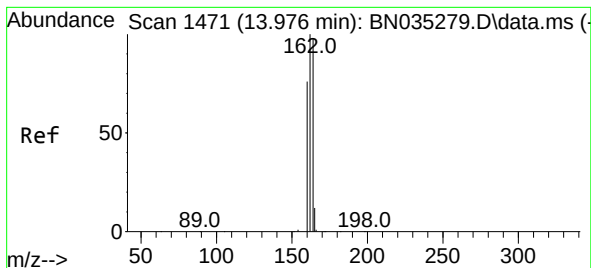
Tgt Ion:152 Resp: 4853  
Ion Ratio Lower Upper  
152 100  
151 20.7 17.2 25.8



#12  
2-Methylnaphthalene  
Concen: 0.371 ng  
RT: 11.738 min Scan# 1113  
Delta R.T. -0.004 min  
Lab File: BN035300.D  
Acq: 26 Nov 2024 03:14

Tgt Ion:142 Resp: 5885  
Ion Ratio Lower Upper  
142 100  
141 89.9 71.8 107.8  
115 39.2 32.6 49.0





#13

Acenaphthene-d10

Concen: 0.400 ng

RT: 13.973 min Scan# 14

Delta R.T. -0.004 min

Lab File: BN035300.D

Acq: 26 Nov 2024 03:14

Instrument :

BNA\_N

ClientSampleId :

SSTDCCC0.4EC

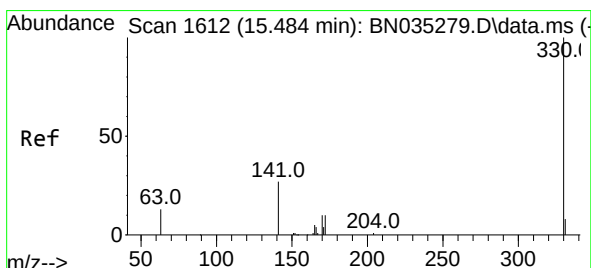
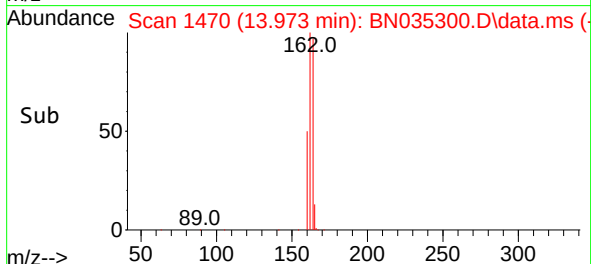
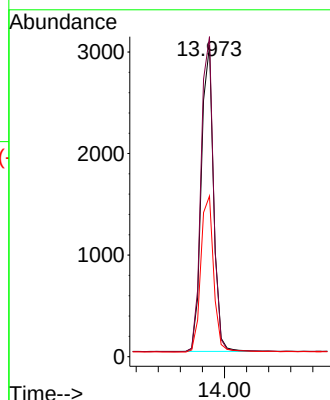
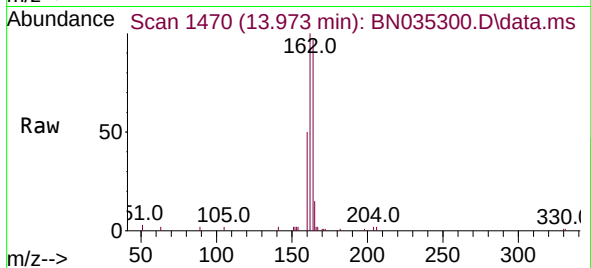
Tgt Ion:164 Resp: 4650

Ion Ratio Lower Upper

164 100

162 102.8 82.0 123.0

160 51.6 63.0 94.4#



#14

2,4,6-Tribromophenol

Concen: 0.408 ng

RT: 15.480 min Scan# 1611

Delta R.T. -0.004 min

Lab File: BN035300.D

Acq: 26 Nov 2024 03:14

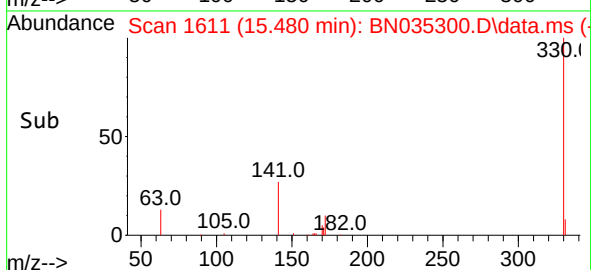
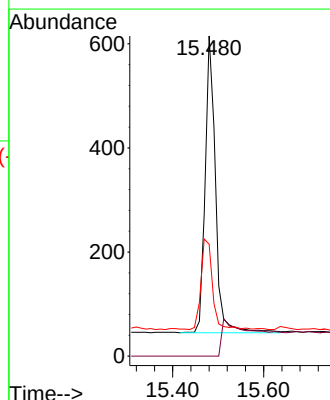
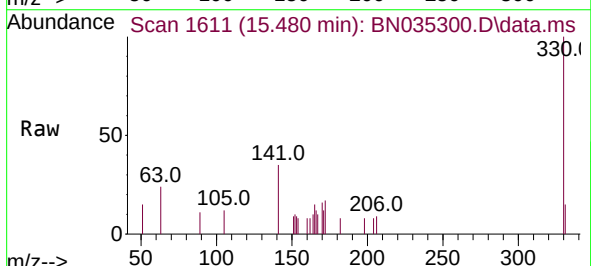
Tgt Ion:330 Resp: 969

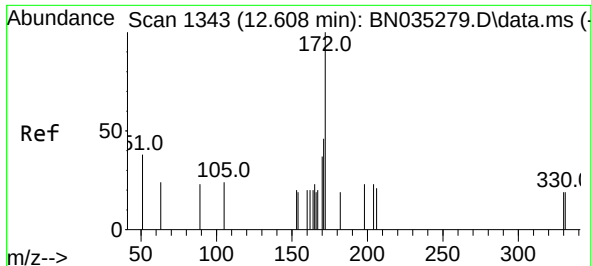
Ion Ratio Lower Upper

330 100

332 0.0 0.0 0.0

141 34.5 32.4 48.6

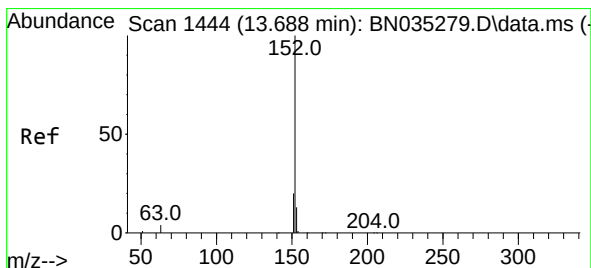
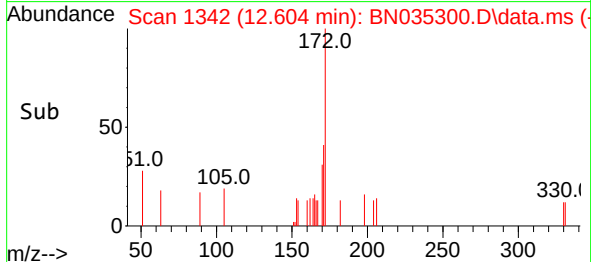
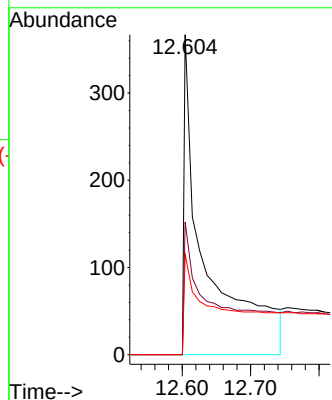
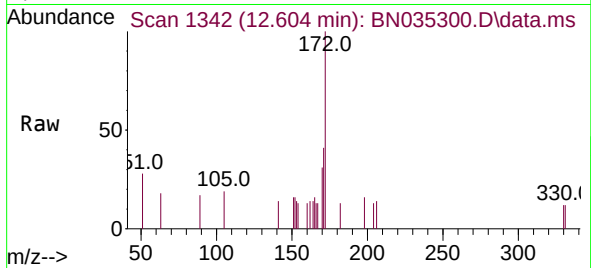




#15  
2-Fluorobiphenyl  
Concen: 0.310 ng  
RT: 12.604 min Scan# 11  
Delta R.T. -0.004 min  
Lab File: BN035300.D  
Acq: 26 Nov 2024 03:14

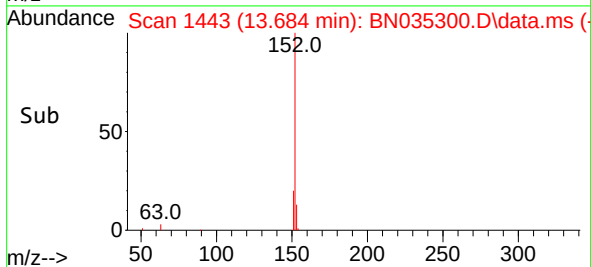
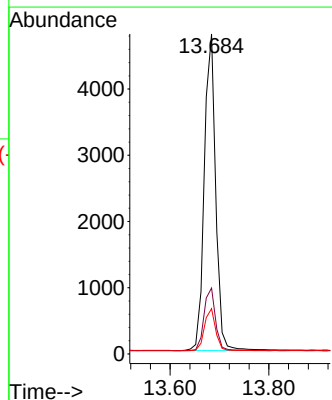
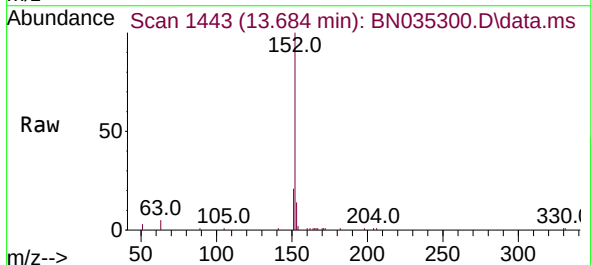
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDCCC0.4EC

Tgt Ion:172 Resp: 795  
Ion Ratio Lower Upper  
172 100  
171 41.4 36.6 55.0  
170 31.3 29.7 44.5

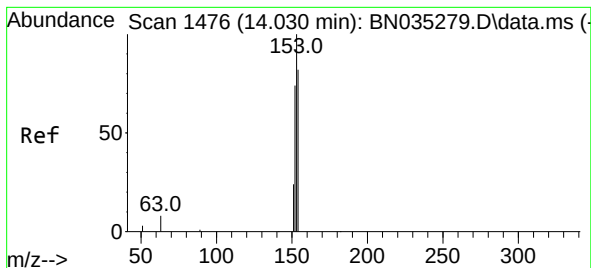


#16  
Acenaphthylene  
Concen: 0.328 ng  
RT: 13.684 min Scan# 1443  
Delta R.T. -0.004 min  
Lab File: BN035300.D  
Acq: 26 Nov 2024 03:14

Tgt Ion:152 Resp: 7671  
Ion Ratio Lower Upper  
152 100  
151 19.9 15.9 23.9  
153 13.1 10.2 15.4







#17

Acenaphthene

Concen: 0.348 ng

RT: 14.037 min Scan# 1476

Delta R.T. 0.007 min

Lab File: BN035300.D

Acq: 26 Nov 2024 03:14

Instrument :

BNA\_N

ClientSampleId :

SSTDCCC0.4EC

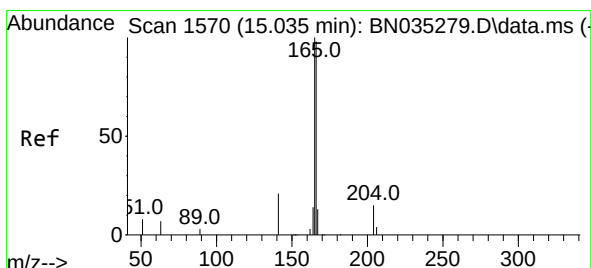
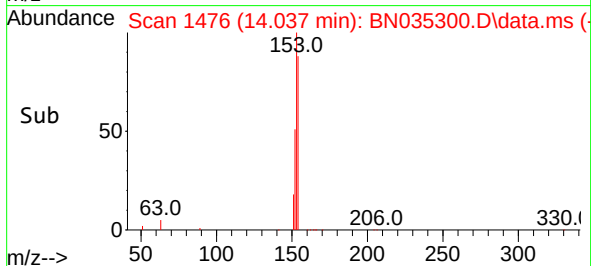
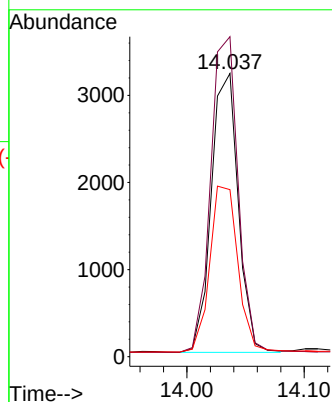
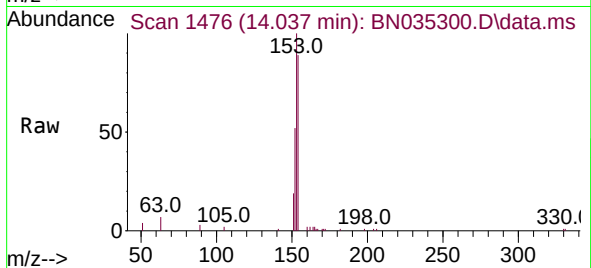
Tgt Ion:154 Resp: 5129

Ion Ratio Lower Upper

154 100

153 115.9 96.1 144.1

152 62.8 72.2 108.2#



#18

Fluorene

Concen: 0.318 ng

RT: 15.031 min Scan# 1569

Delta R.T. -0.004 min

Lab File: BN035300.D

Acq: 26 Nov 2024 03:14

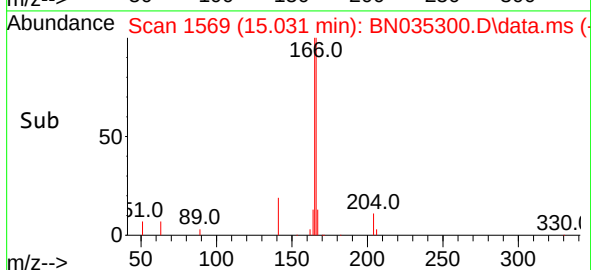
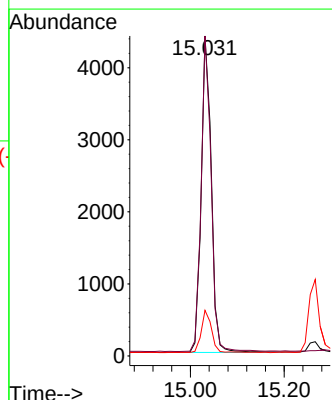
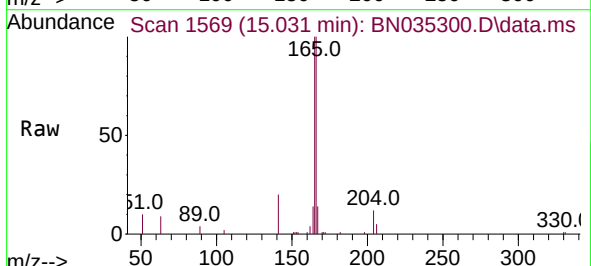
Tgt Ion:166 Resp: 6559

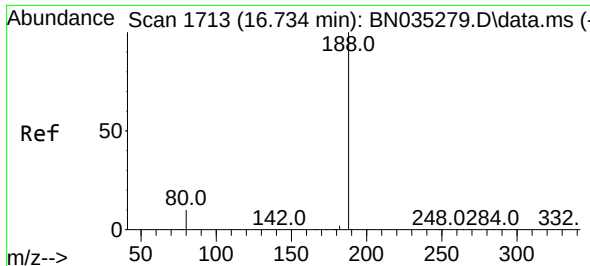
Ion Ratio Lower Upper

166 100

165 98.2 81.2 121.8

167 13.7 10.5 15.7

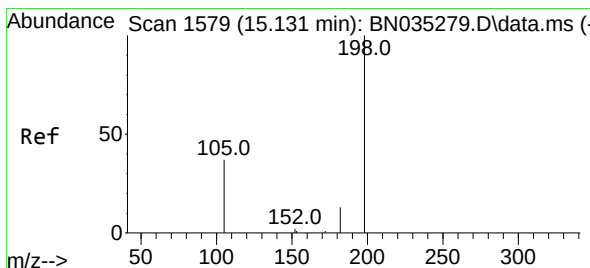
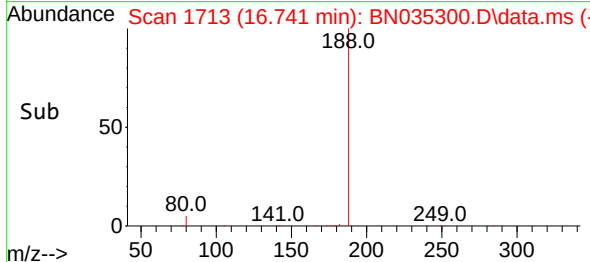
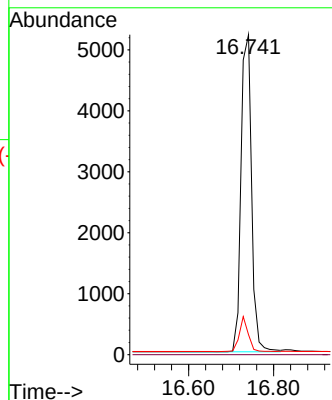
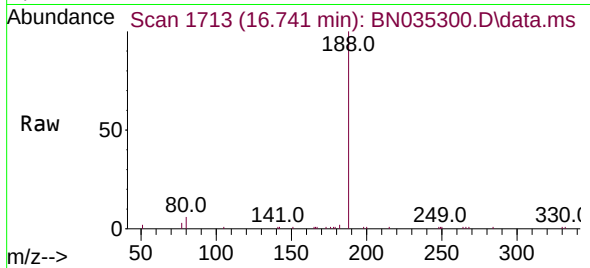




#19  
Phenanthrene-d10  
Concen: 0.400 ng  
RT: 16.741 min Scan# 11  
Delta R.T. 0.007 min  
Lab File: BN035300.D  
Acq: 26 Nov 2024 03:14

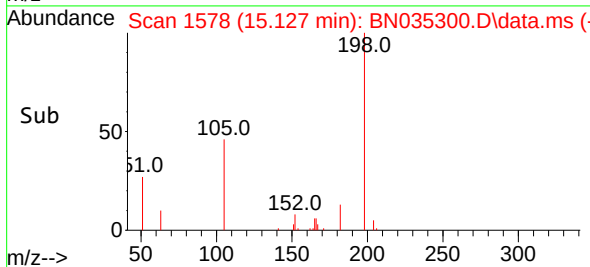
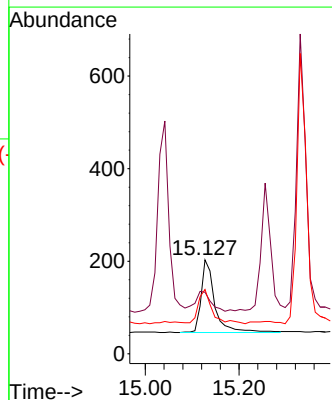
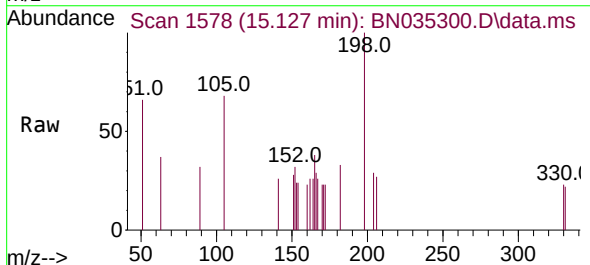
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDCCC0.4EC

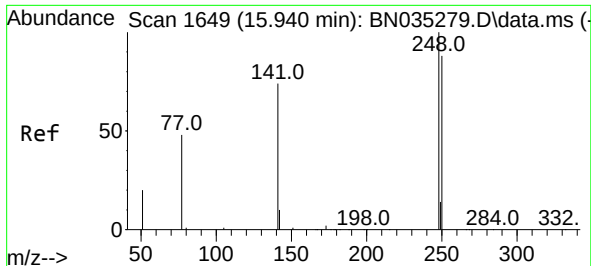
Tgt Ion:188 Resp: 8944  
Ion Ratio Lower Upper  
188 100  
94 0.0 0.0 0.0  
80 6.2 8.9 13.3#



#20  
4,6-Dinitro-2-methylphenol  
Concen: 0.436 ng  
RT: 15.127 min Scan# 1578  
Delta R.T. -0.004 min  
Lab File: BN035300.D  
Acq: 26 Nov 2024 03:14

Tgt Ion:198 Resp: 319  
Ion Ratio Lower Upper  
198 100  
51 65.5 53.6 80.4  
105 68.5 47.4 71.2

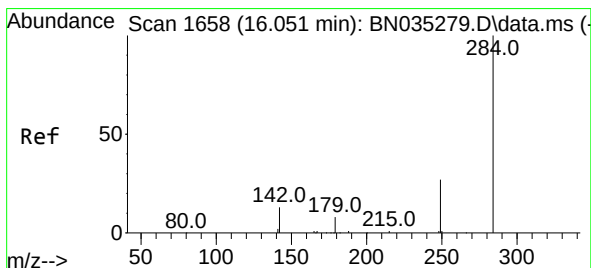
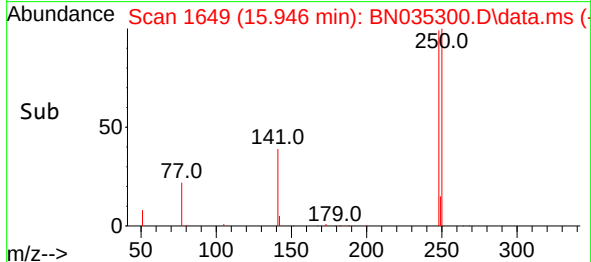
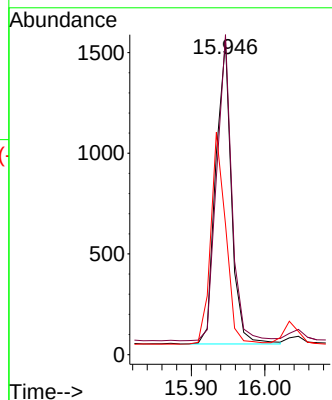
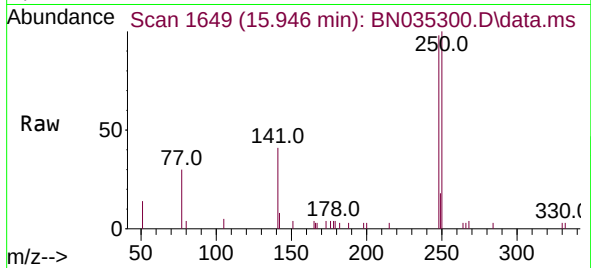




#21  
4-Bromophenyl-phenylether  
Concen: 0.394 ng  
RT: 15.946 min Scan# 1649  
Delta R.T. 0.006 min  
Lab File: BN035300.D  
Acq: 26 Nov 2024 03:14

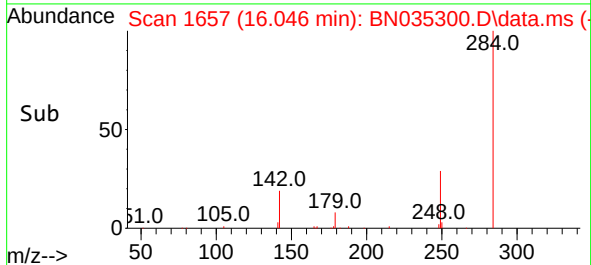
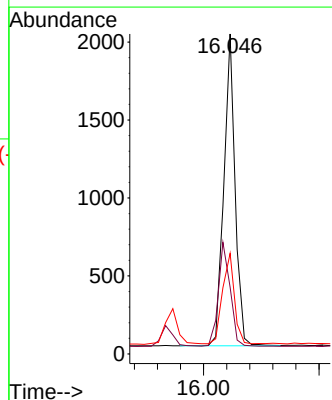
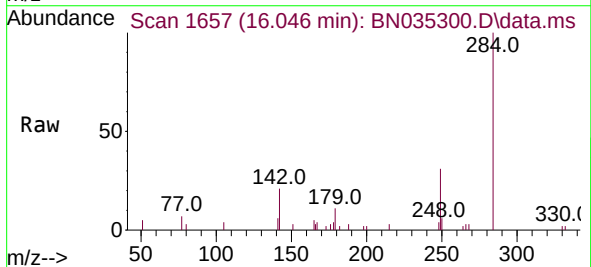
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDCCC0.4EC

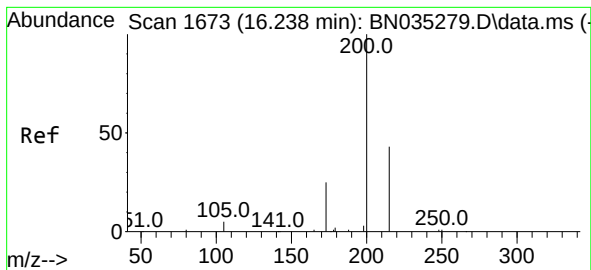
Tgt Ion:248 Resp: 2233  
Ion Ratio Lower Upper  
248 100  
250 102.1 74.8 112.2  
141 41.6 59.0 88.4#



#22  
Hexachlorobenzene  
Concen: 0.335 ng  
RT: 16.046 min Scan# 1657  
Delta R.T. -0.006 min  
Lab File: BN035300.D  
Acq: 26 Nov 2024 03:14

Tgt Ion:284 Resp: 2720  
Ion Ratio Lower Upper  
284 100  
142 34.9 28.7 43.1  
249 30.4 25.4 38.0





#23

Atrazine

Concen: 0.431 ng

RT: 16.232 min Scan# 1672

Delta R.T. -0.006 min

Lab File: BN035300.D

Acq: 26 Nov 2024 03:14

Instrument :

BNA\_N

ClientSampleId :

SSTDCCC0.4EC

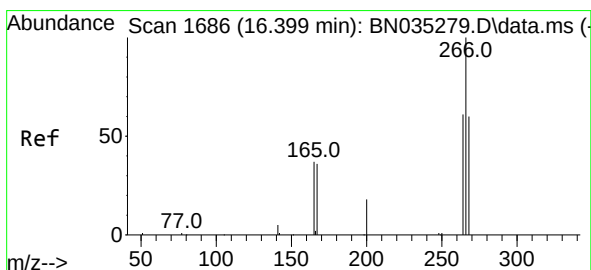
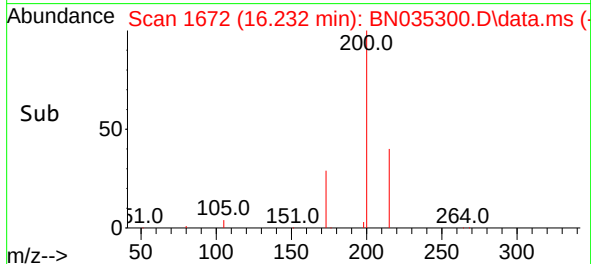
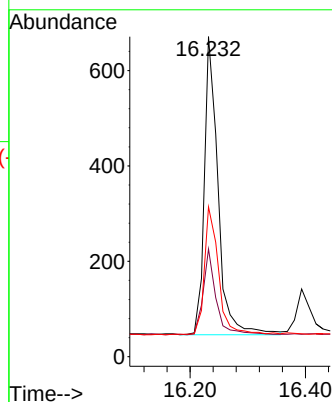
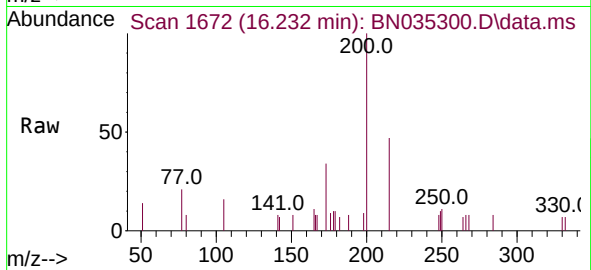
Tgt Ion:200 Resp: 1031

Ion Ratio Lower Upper

200 100

173 33.7 25.8 38.8

215 46.8 38.6 58.0



#24

Pentachlorophenol

Concen: 0.450 ng

RT: 16.393 min Scan# 1685

Delta R.T. -0.006 min

Lab File: BN035300.D

Acq: 26 Nov 2024 03:14

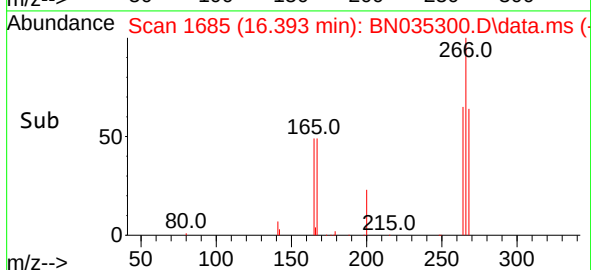
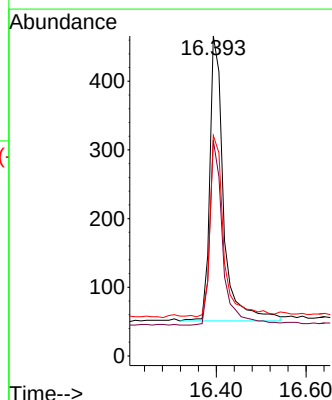
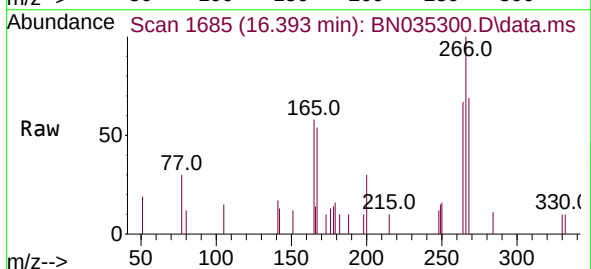
Tgt Ion:266 Resp: 878

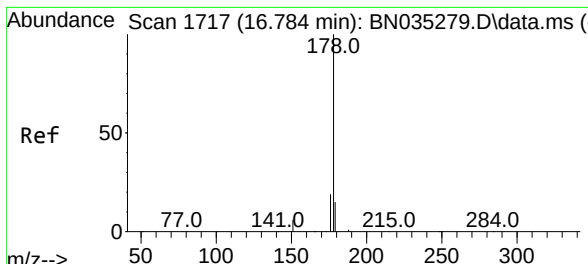
Ion Ratio Lower Upper

266 100

264 61.7 49.3 73.9

268 63.4 48.6 73.0

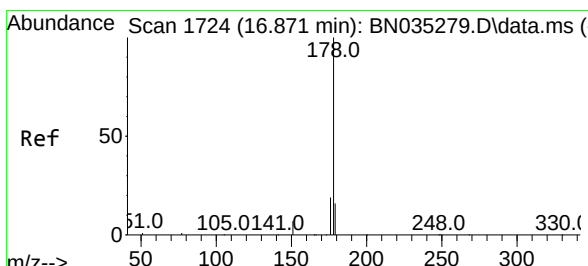
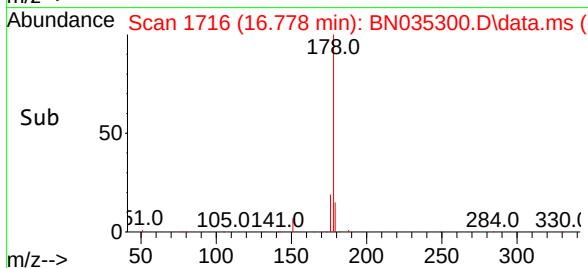
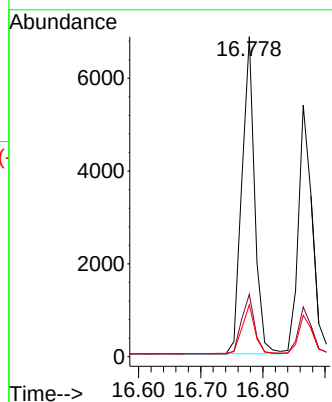
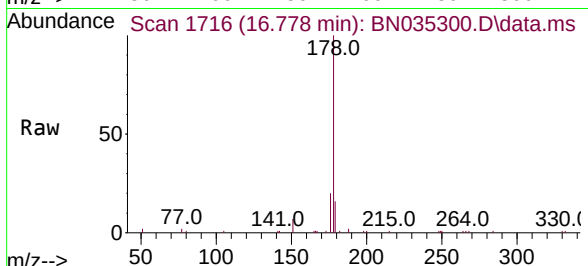




#25  
Phenanthrene  
Concen: 0.356 ng  
RT: 16.778 min Scan# 1716  
Delta R.T. -0.006 min  
Lab File: BN035300.D  
Acq: 26 Nov 2024 03:14

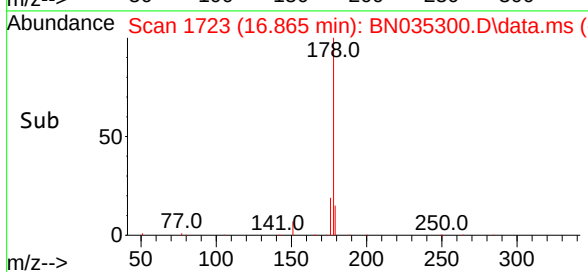
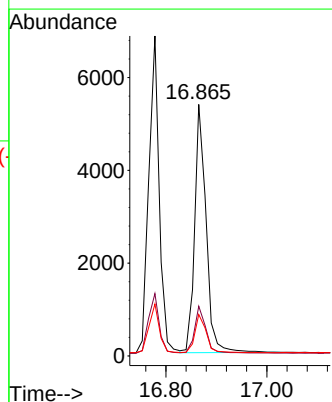
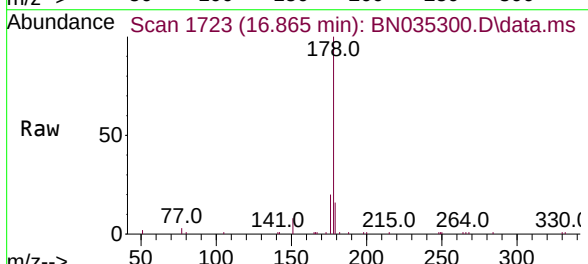
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDCCC0.4EC

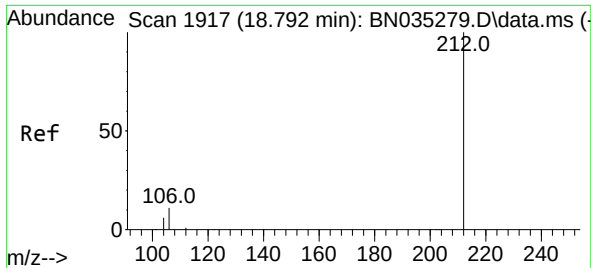
Tgt Ion:178 Resp: 9774  
Ion Ratio Lower Upper  
178 100  
176 19.2 15.4 23.0  
179 15.5 12.6 18.8



#26  
Anthracene  
Concen: 0.357 ng  
RT: 16.865 min Scan# 1723  
Delta R.T. -0.006 min  
Lab File: BN035300.D  
Acq: 26 Nov 2024 03:14

Tgt Ion:178 Resp: 8425  
Ion Ratio Lower Upper  
178 100  
176 18.5 15.0 22.4  
179 15.5 12.4 18.6

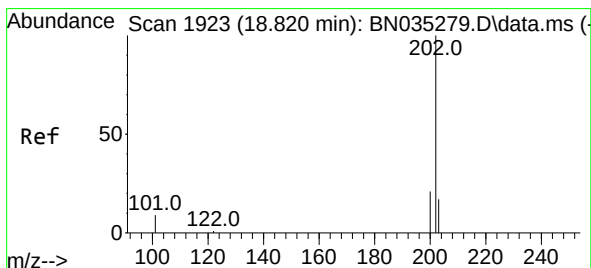
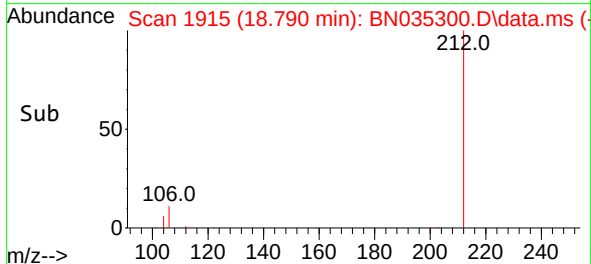
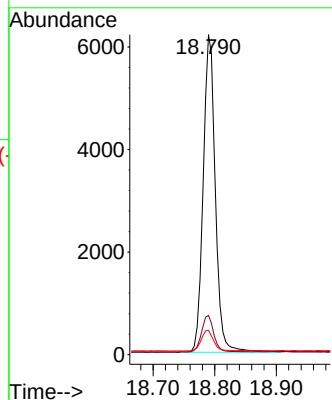
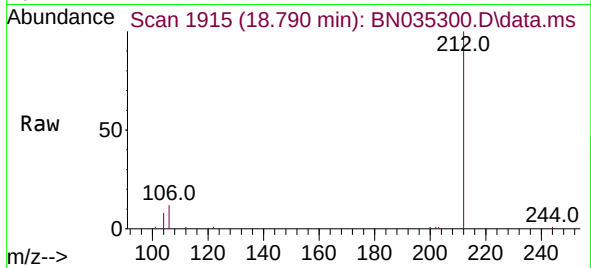




#27  
Fluoranthene-d10  
Concen: 0.353 ng  
RT: 18.790 min Scan# 1915  
Delta R.T. -0.002 min  
Lab File: BN035300.D  
Acq: 26 Nov 2024 03:14

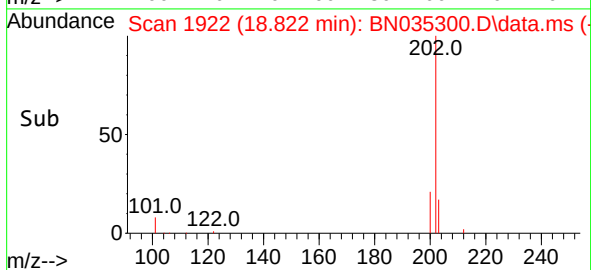
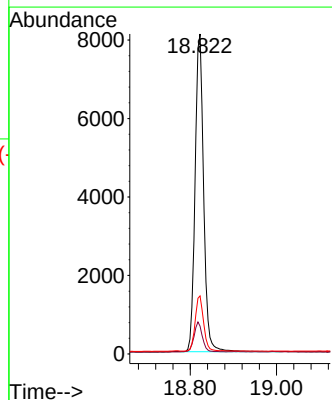
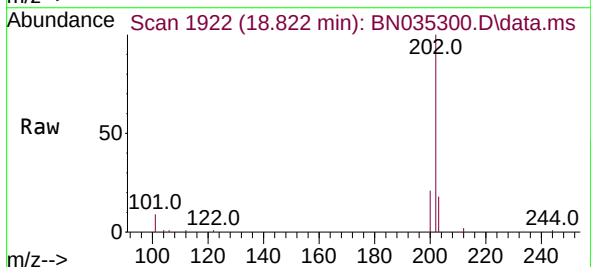
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDCCC0.4EC

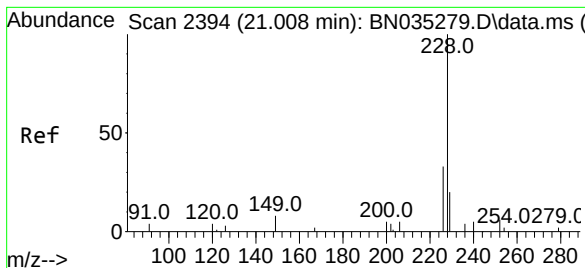
Tgt Ion:212 Resp: 8444  
Ion Ratio Lower Upper  
212 100  
106 11.6 9.8 14.8  
104 6.8 5.6 8.4



#28  
Fluoranthene  
Concen: 0.319 ng  
RT: 18.822 min Scan# 1922  
Delta R.T. 0.002 min  
Lab File: BN035300.D  
Acq: 26 Nov 2024 03:14

Tgt Ion:202 Resp: 11052  
Ion Ratio Lower Upper  
202 100  
101 9.1 7.6 11.4  
203 17.1 13.8 20.8





#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.006 min Scan# 21

Delta R.T. -0.002 min

Lab File: BN035300.D

Acq: 26 Nov 2024 03:14

Instrument :

BNA\_N

ClientSampleId :

SSTDCCC0.4EC

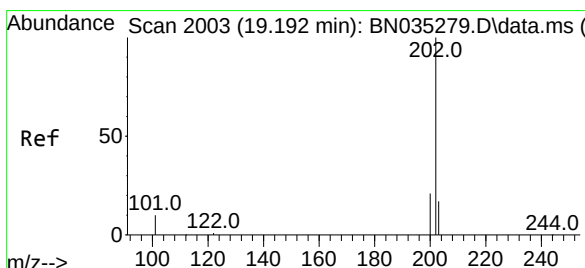
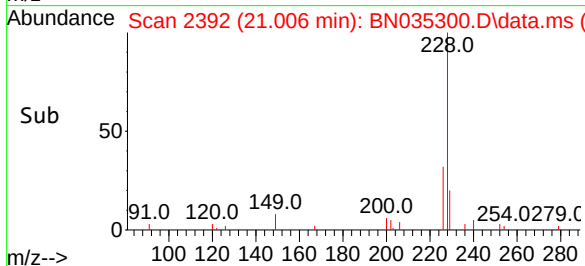
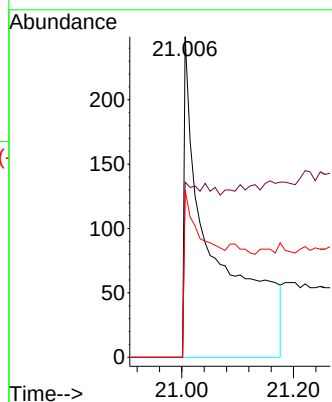
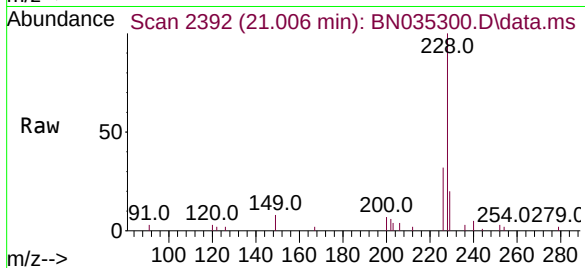
Tgt Ion:240 Resp: 871

Ion Ratio Lower Upper

240 100

120 54.6 54.9 82.3#

236 52.2 54.0 81.0#



#30

Pyrene

Concen: 0.351 ng

RT: 19.189 min Scan# 2001

Delta R.T. -0.003 min

Lab File: BN035300.D

Acq: 26 Nov 2024 03:14

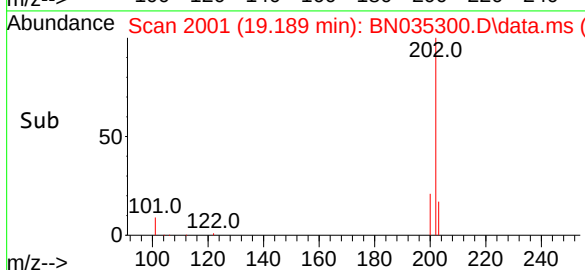
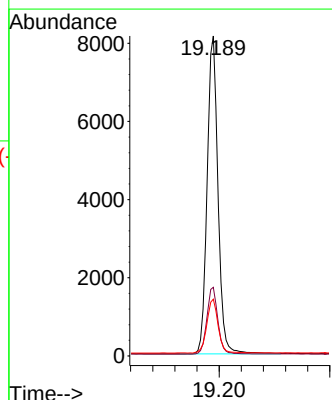
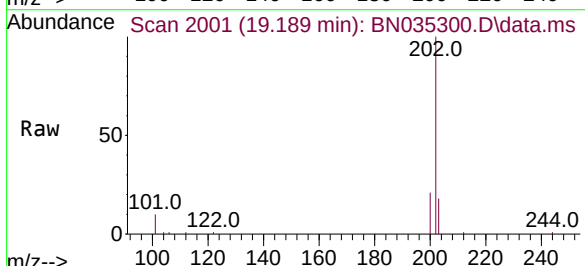
Tgt Ion:202 Resp: 11118

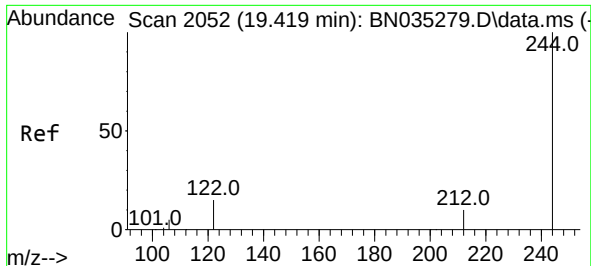
Ion Ratio Lower Upper

202 100

200 21.2 16.8 25.2

203 17.6 14.4 21.6

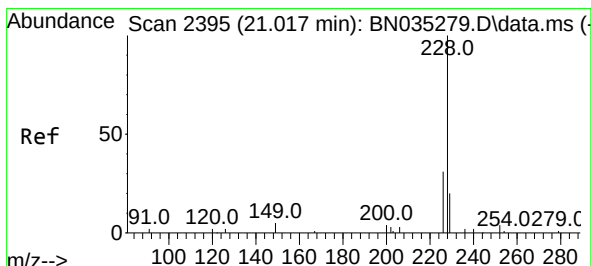
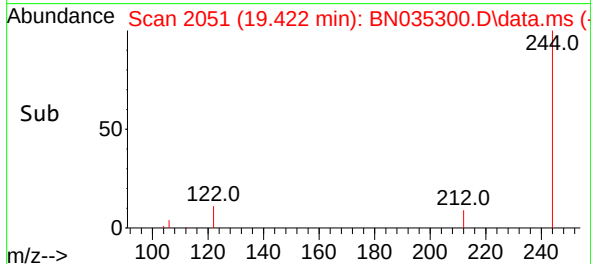
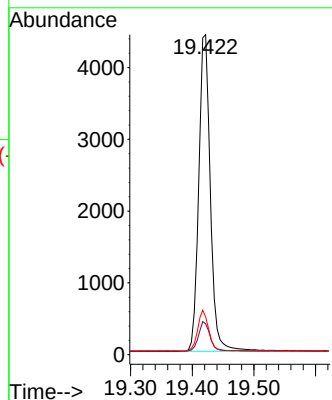
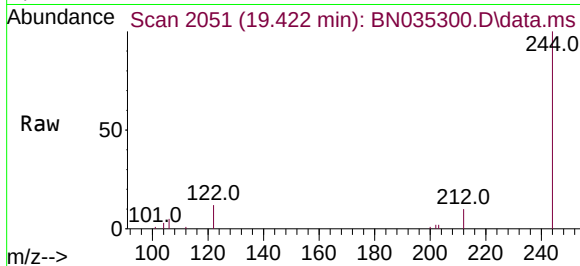




#31  
Terphenyl-d14  
Concen: 0.361 ng  
RT: 19.422 min Scan# 2051  
Delta R.T. 0.003 min  
Lab File: BN035300.D  
Acq: 26 Nov 2024 03:14

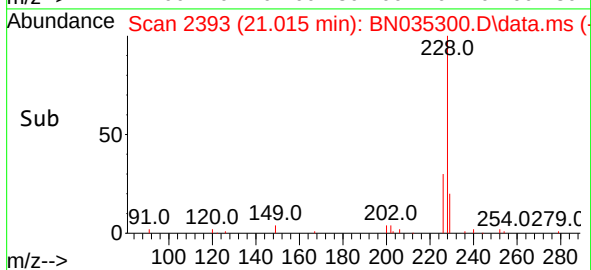
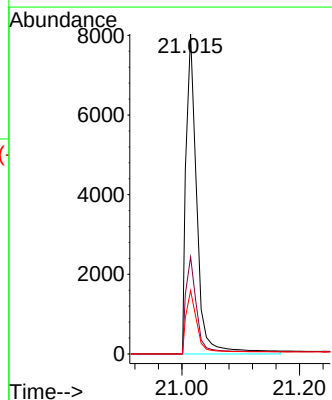
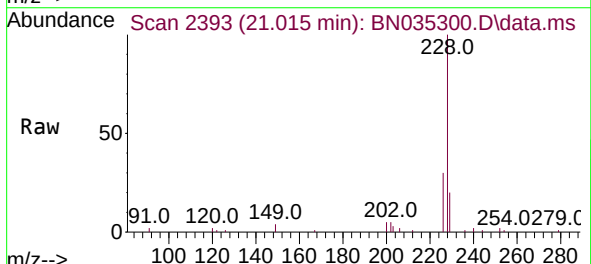
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDCCC0.4EC

Tgt Ion:244 Resp: 5811  
Ion Ratio Lower Upper  
244 100  
212 9.6 9.4 14.0  
122 11.8 13.0 19.4#

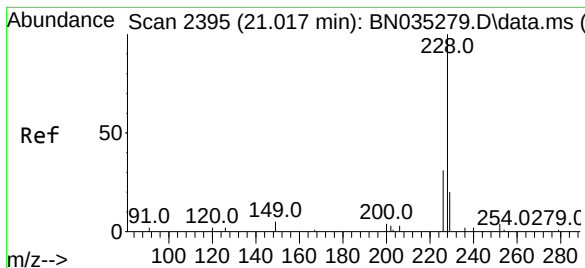


#32  
Benzo(a)anthracene  
Concen: 0.342 ng  
RT: 21.015 min Scan# 2393  
Delta R.T. -0.002 min  
Lab File: BN035300.D  
Acq: 26 Nov 2024 03:14

Tgt Ion:228 Resp: 10362  
Ion Ratio Lower Upper  
228 100  
226 30.3 24.7 37.1  
229 19.8 16.2 24.2







#33

Chrysene

Concen: 0.342 ng

RT: 21.015 min Scan# 21

Delta R.T. -0.002 min

Lab File: BN035300.D

Acq: 26 Nov 2024 03:14

Instrument :

BNA\_N

ClientSampleId :

SSTDCCC0.4EC

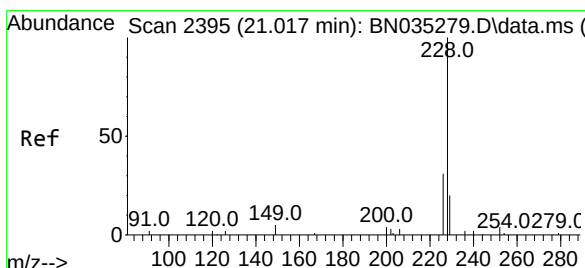
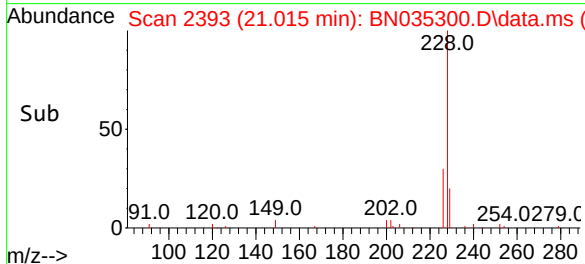
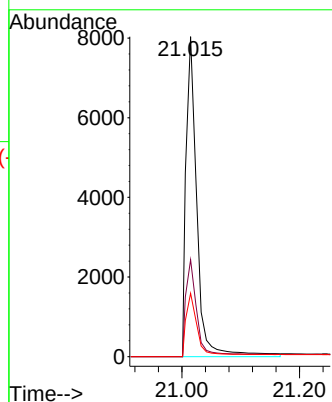
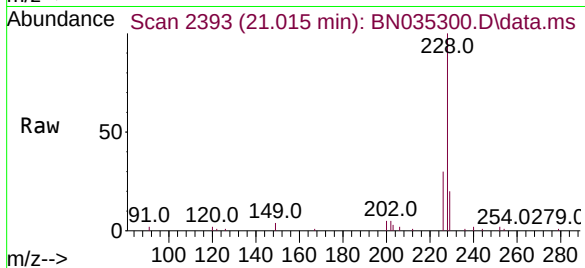
Tgt Ion:228 Resp: 10362

Ion Ratio Lower Upper

228 100

226 30.3 24.7 37.1

229 19.8 16.2 24.2



#34

Bis(2-ethylhexyl)phthalate

Concen: 0.358 ng

RT: 21.015 min Scan# 2393

Delta R.T. -0.002 min

Lab File: BN035300.D

Acq: 26 Nov 2024 03:14

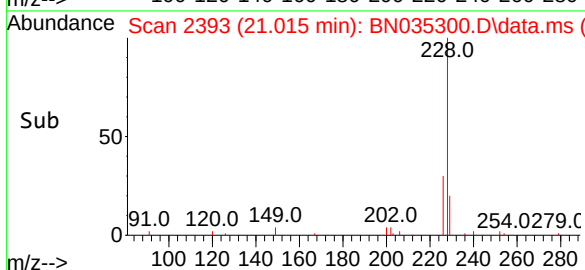
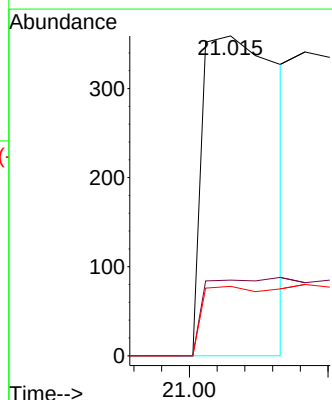
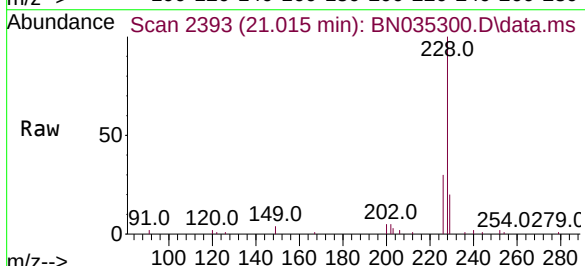
Tgt Ion:149 Resp: 596

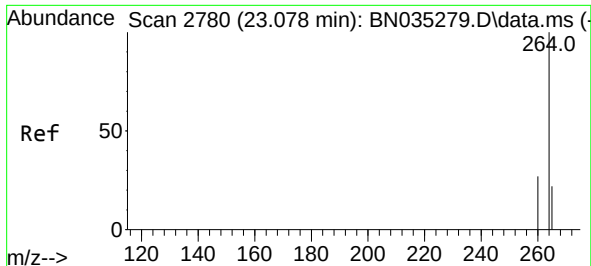
Ion Ratio Lower Upper

149 100

167 32.0 0.0 0.0#

279 15.4 13.0 19.6

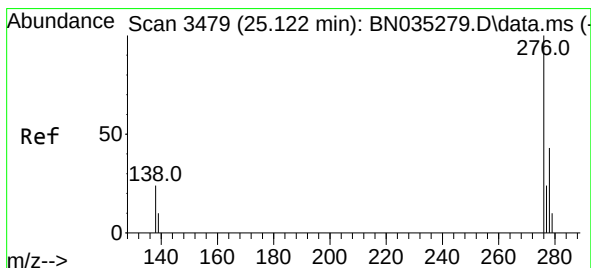
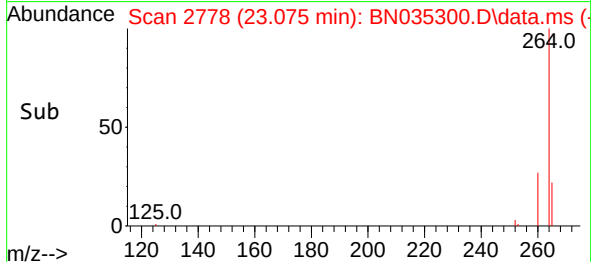
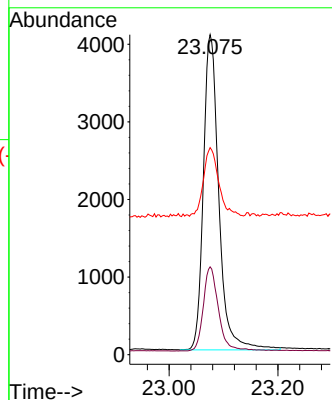
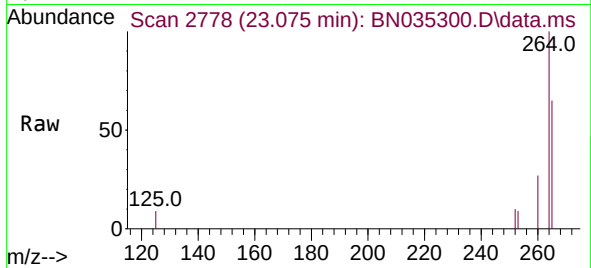




#35  
Perylene-d12  
Concen: 0.400 ng  
RT: 23.075 min Scan# 21  
Delta R.T. -0.002 min  
Lab File: BN035300.D  
Acq: 26 Nov 2024 03:14

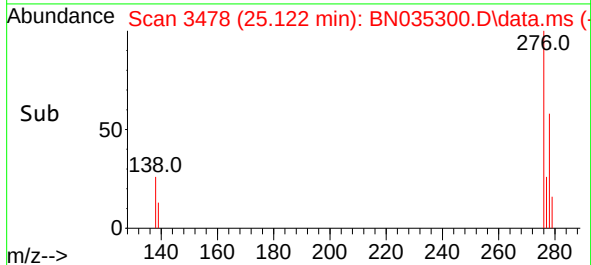
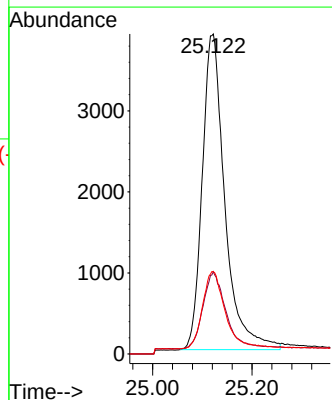
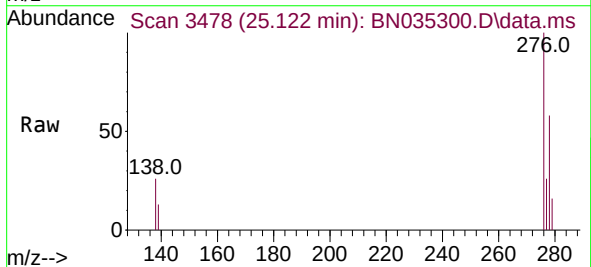
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDCCC0.4EC

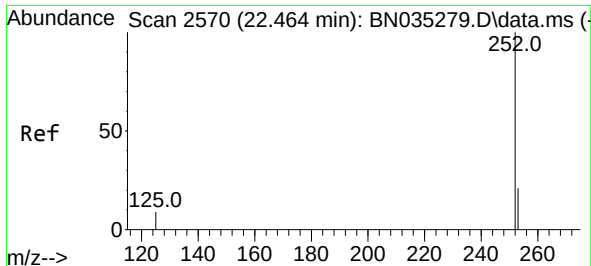
Tgt Ion:264 Resp: 8001  
Ion Ratio Lower Upper  
264 100  
260 27.4 22.3 33.5  
265 64.7 68.6 103.0#



#36  
Indeno(1,2,3-cd)pyrene  
Concen: 0.376 ng  
RT: 25.122 min Scan# 3478  
Delta R.T. 0.000 min  
Lab File: BN035300.D  
Acq: 26 Nov 2024 03:14

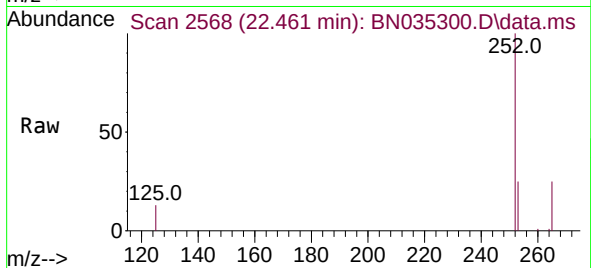
Tgt Ion:276 Resp: 12330  
Ion Ratio Lower Upper  
276 100  
138 23.7 18.8 28.2  
277 24.0 18.2 27.4



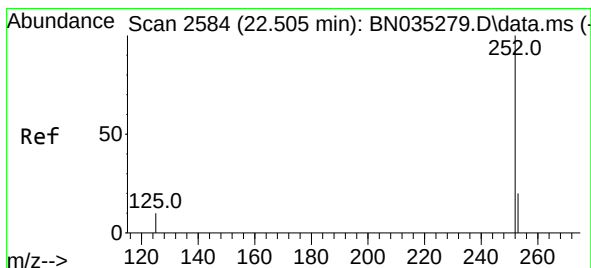
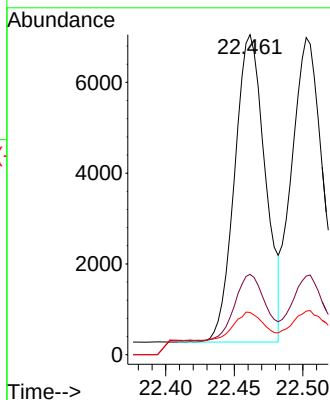


#37  
Benzo(b)fluoranthene  
Concen: 0.302 ng  
RT: 22.461 min Scan# 2568  
Delta R.T. -0.002 min  
Lab File: BN035300.D  
Acq: 26 Nov 2024 03:14

Instrument :  
BNA\_N  
ClientSampleId :  
SSTDCCC0.4EC

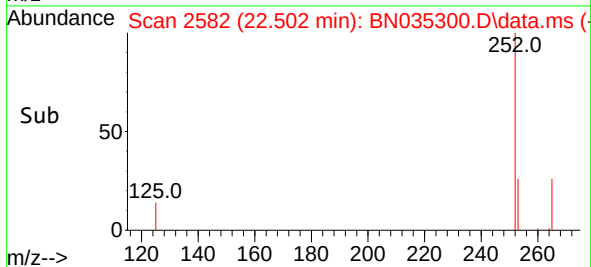
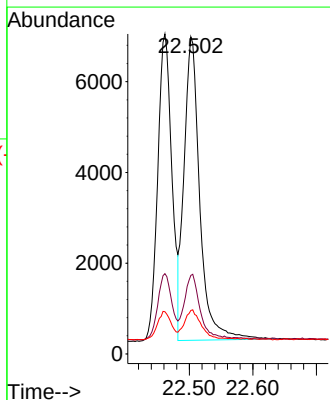
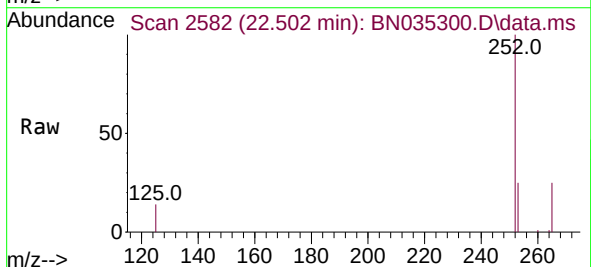


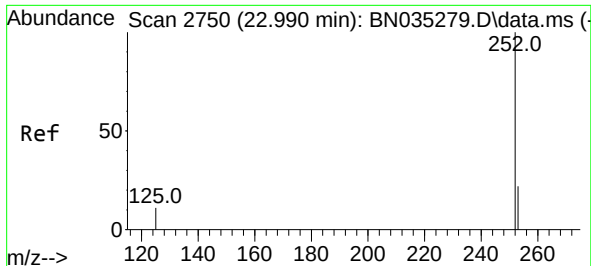
Tgt Ion:252 Resp: 10486  
Ion Ratio Lower Upper  
252 100  
253 25.1 20.2 30.2  
125 13.2 12.0 18.0



#38  
Benzo(k)fluoranthene  
Concen: 0.313 ng  
RT: 22.502 min Scan# 2582  
Delta R.T. -0.002 min  
Lab File: BN035300.D  
Acq: 26 Nov 2024 03:14

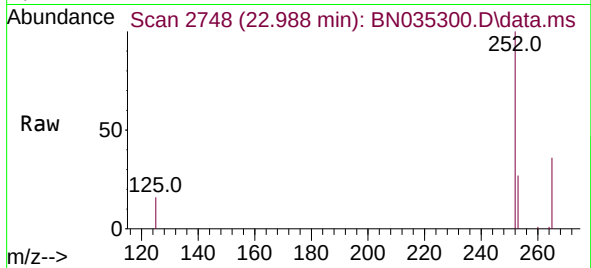
Tgt Ion:252 Resp: 11527  
Ion Ratio Lower Upper  
252 100  
253 24.8 20.1 30.1  
125 13.7 12.7 19.1



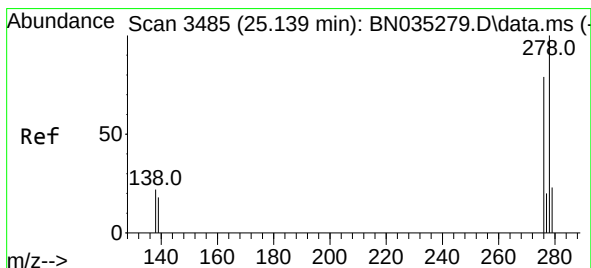
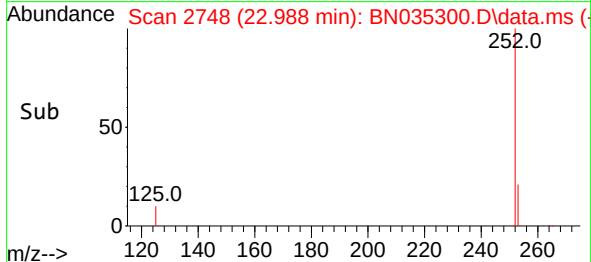
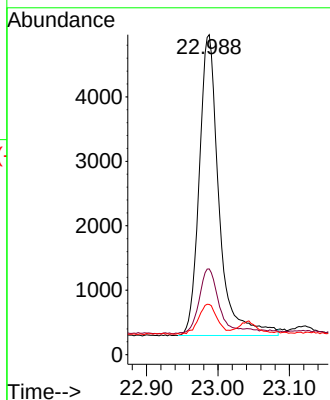


#39  
Benzo(a)pyrene  
Concen: 0.337 ng  
RT: 22.988 min Scan# 21  
Delta R.T. -0.002 min  
Lab File: BN035300.D  
Acq: 26 Nov 2024 03:14

Instrument :  
BNA\_N  
ClientSampleId :  
SSTDCCC0.4EC

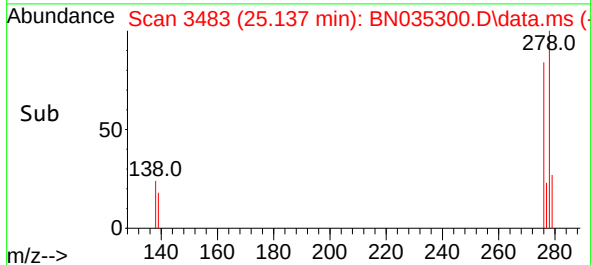
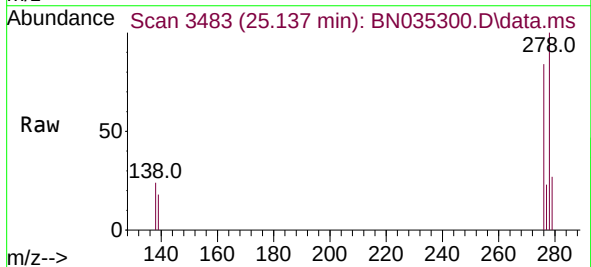
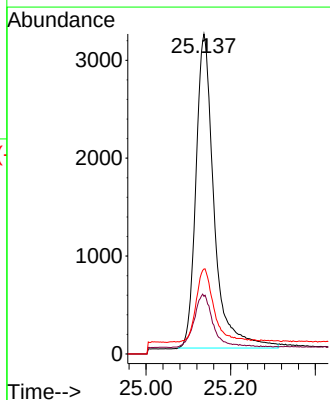


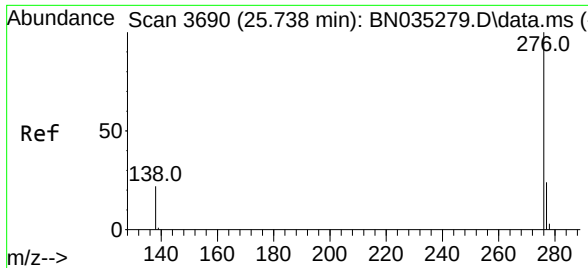
Tgt Ion:252 Resp: 8958  
Ion Ratio Lower Upper  
252 100  
253 26.8 22.3 33.5  
125 15.7 15.3 22.9



#40  
Dibenzo(a,h)anthracene  
Concen: 0.386 ng  
RT: 25.137 min Scan# 3483  
Delta R.T. -0.002 min  
Lab File: BN035300.D  
Acq: 26 Nov 2024 03:14

Tgt Ion:278 Resp: 9558  
Ion Ratio Lower Upper  
278 100  
139 18.0 17.0 25.6  
279 26.6 23.0 34.4

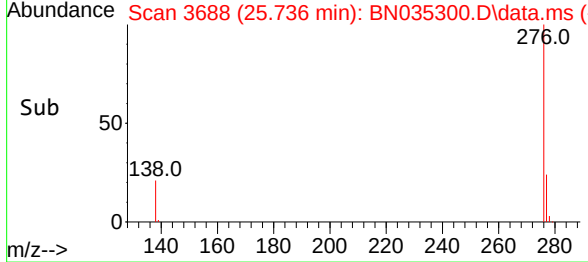
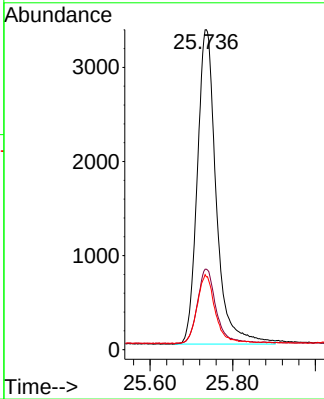
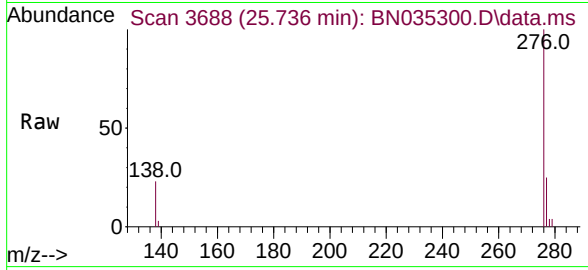




#41  
 Benzo(g,h,i)perylene  
 Concen: 0.372 ng  
 RT: 25.736 min Scan# 30  
 Delta R.T. -0.002 min  
 Lab File: BN035300.D  
 Acq: 26 Nov 2024 03:14

Instrument :  
 BNA\_N  
 ClientSampleId :  
 SSTDCCC0.4EC

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 276   | Resp: | 10647 |
| Ion Ratio | Lower | Upper |       |
| 276       | 100   |       |       |
| 277       | 25.2  | 21.1  | 31.7  |
| 138       | 22.7  | 19.8  | 29.8  |



Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN112724\  
 Data File : BN035350.D  
 Acq On : 27 Nov 2024 15:34  
 Operator : RC/JU  
 Sample : SSTDICC0.1  
 Misc :  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 BNA\_N  
 ClientSampleId :  
 SSTDICC0.1

Quant Time: Nov 27 22:52:09 2024  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\8270-SIM-BN112724.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Wed Nov 27 22:48:24 2024  
 Response via : Initial Calibration

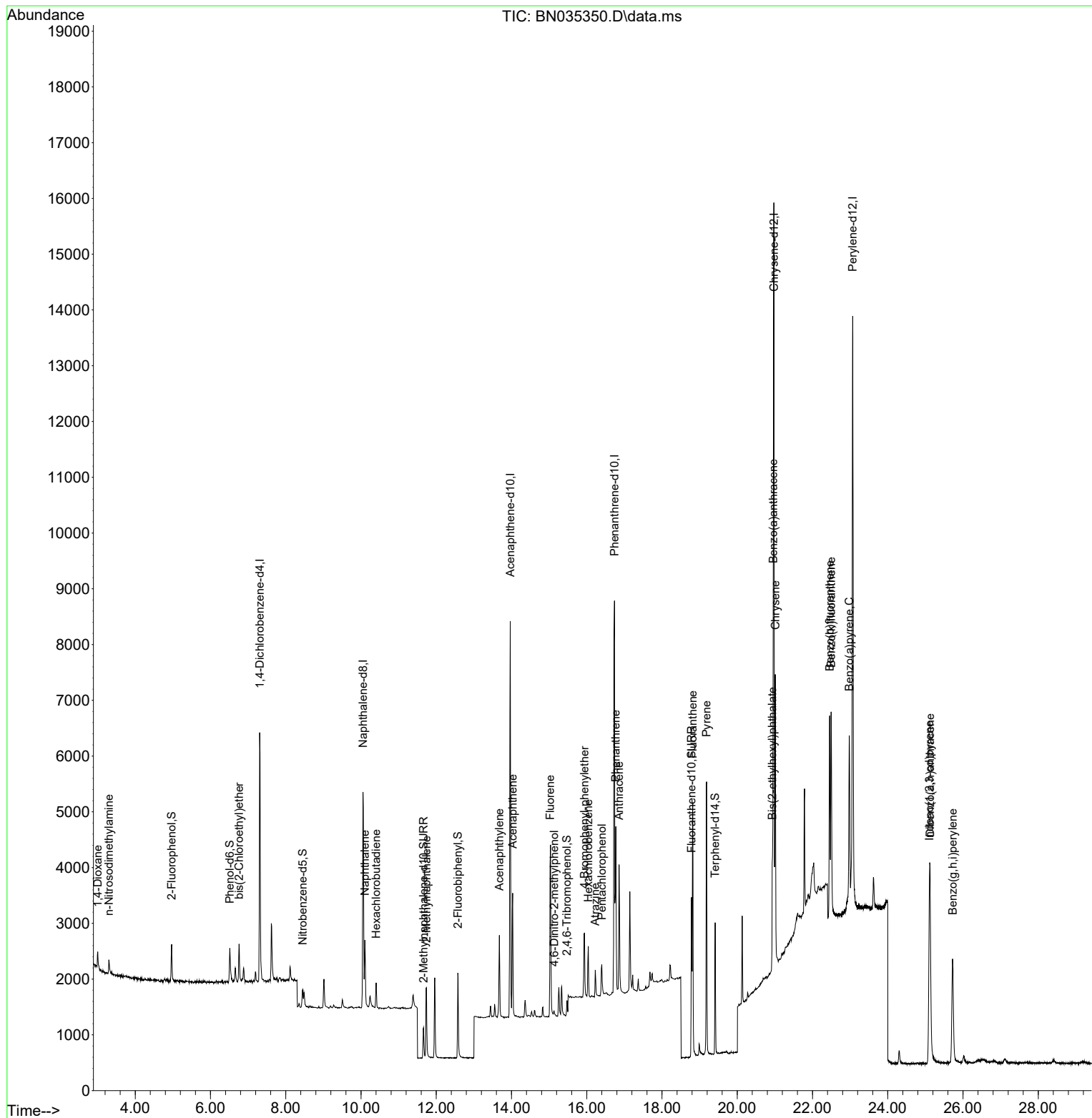
| Compound                      | R.T.   | QIon | Response | Conc  | Units | Dev(Min) |
|-------------------------------|--------|------|----------|-------|-------|----------|
| Internal Standards            |        |      |          |       |       |          |
| 1) 1,4-Dichlorobenzene-d4     | 7.308  | 152  | 2237     | 0.400 | ng    | 0.00     |
| 7) Naphthalene-d8             | 10.052 | 136  | 5753     | 0.400 | ng    | 0.00     |
| 13) Acenaphthene-d10          | 13.967 | 164  | 4077     | 0.400 | ng    | 0.00     |
| 19) Phenanthrene-d10          | 16.736 | 188  | 10855    | 0.400 | ng    | 0.00     |
| 29) Chrysene-d12              | 20.974 | 240  | 11269    | 0.400 | ng    | 0.00     |
| 35) Perylene-d12              | 23.067 | 264  | 13004    | 0.400 | ng    | 0.00     |
| System Monitoring Compounds   |        |      |          |       |       |          |
| 4) 2-Fluorophenol             | 4.968  | 112  | 573      | 0.101 | ng    | 0.00     |
| 5) Phenol-d6                  | 6.513  | 99   | 686      | 0.096 | ng    | 0.00     |
| 8) Nitrobenzene-d5            | 8.450  | 82   | 492      | 0.098 | ng    | 0.01     |
| 11) 2-Methylnaphthalene-d10   | 11.661 | 152  | 850      | 0.083 | ng    | 0.00     |
| 14) 2,4,6-Tribromophenol      | 15.475 | 330  | 278      | 0.095 | ng    | 0.00     |
| 15) 2-Fluorobiphenyl          | 12.574 | 172  | 1518     | 0.092 | ng    | 0.00     |
| 27) Fluoranthene-d10          | 18.785 | 212  | 3265     | 0.098 | ng    | 0.00     |
| 31) Terphenyl-d14             | 19.412 | 244  | 2344     | 0.099 | ng    | 0.00     |
| Target Compounds              |        |      |          |       |       |          |
| 2) 1,4-Dioxane                | 3.003  | 88   | 227      | 0.112 | ng    | # 87     |
| 3) n-Nitrosodimethylamine     | 3.299  | 42   | 187      | 0.099 | ng    | # 90     |
| 6) bis(2-Chloroethyl)ether    | 6.759  | 93   | 579      | 0.108 | ng    | 98       |
| 9) Naphthalene                | 10.105 | 128  | 1527     | 0.102 | ng    | # 91     |
| 10) Hexachlorobutadiene       | 10.404 | 225  | 352      | 0.080 | ng    | # 97     |
| 12) 2-Methylnaphthalene       | 11.737 | 142  | 1042     | 0.094 | ng    | 96       |
| 16) Acenaphthylene            | 13.679 | 152  | 1675     | 0.096 | ng    | 100      |
| 17) Acenaphthene              | 14.031 | 154  | 1143     | 0.100 | ng    | 99       |
| 18) Fluorene                  | 15.026 | 166  | 1620     | 0.096 | ng    | 98       |
| 20) 4,6-Dinitro-2-methylph... | 15.133 | 198  | 103      | 0.046 | ng    | # 29     |
| 21) 4-Bromophenyl-phenylether | 15.941 | 248  | 612      | 0.088 | ng    | # 94     |
| 22) Hexachlorobenzene         | 16.041 | 284  | 720      | 0.100 | ng    | 97       |
| 23) Atrazine                  | 16.227 | 200  | 421      | 0.068 | ng    | # 86     |
| 24) Pentachlorophenol         | 16.401 | 266  | 381      | 0.114 | ng    | 90       |
| 25) Phenanthrene              | 16.773 | 178  | 2963     | 0.104 | ng    | 99       |
| 26) Anthracene                | 16.860 | 178  | 2617     | 0.100 | ng    | 98       |
| 28) Fluoranthene              | 18.817 | 202  | 4173     | 0.106 | ng    | 99       |
| 30) Pyrene                    | 19.184 | 202  | 4461     | 0.119 | ng    | 100      |
| 32) Benzo(a)anthracene        | 20.956 | 228  | 4031     | 0.103 | ng    | 99       |
| 33) Chrysene                  | 21.010 | 228  | 4123     | 0.106 | ng    | 97       |
| 34) Bis(2-ethylhexyl)phtha... | 20.929 | 149  | 1999     | 0.097 | ng    | 99       |
| 36) Indeno(1,2,3-cd)pyrene    | 25.105 | 276  | 4586     | 0.088 | ng    | 97       |
| 37) Benzo(b)fluoranthene      | 22.456 | 252  | 4243     | 0.097 | ng    | # 82     |
| 38) Benzo(k)fluoranthene      | 22.494 | 252  | 4378     | 0.100 | ng    | # 80     |
| 39) Benzo(a)pyrene            | 22.977 | 252  | 3913     | 0.102 | ng    | # 69     |
| 40) Dibenzo(a,h)anthracene    | 25.126 | 278  | 3588     | 0.087 | ng    | # 86     |
| 41) Benzo(g,h,i)perylene      | 25.725 | 276  | 3863     | 0.088 | ng    | # 93     |

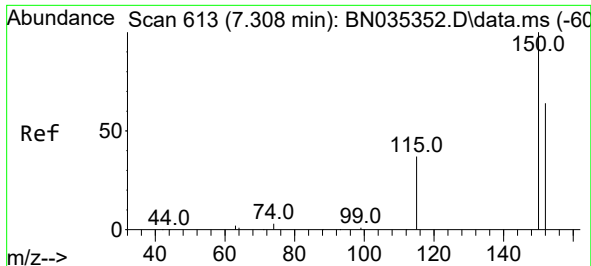
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN112724\  
Data File : BN035350.D  
Acq On : 27 Nov 2024 15:34  
Operator : RC/JU  
Sample : SSTDICC0.1  
Misc :  
ALS Vial : 2 Sample Multiplier: 1

Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC0.1

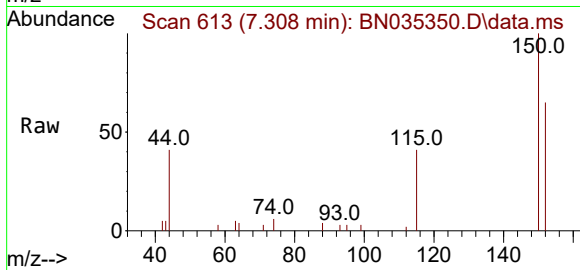
Quant Time: Nov 27 22:52:09 2024  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\8270-SIM-BN112724.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Wed Nov 27 22:48:24 2024  
Response via : Initial Calibration



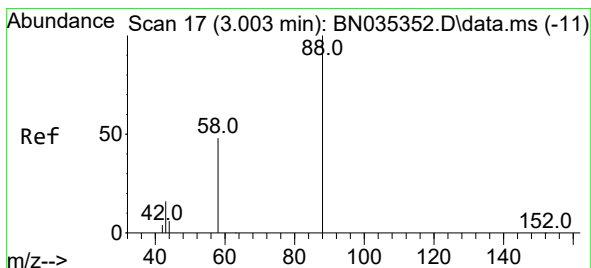
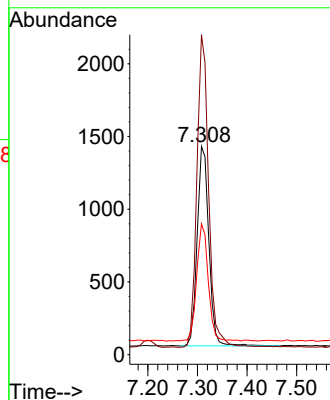
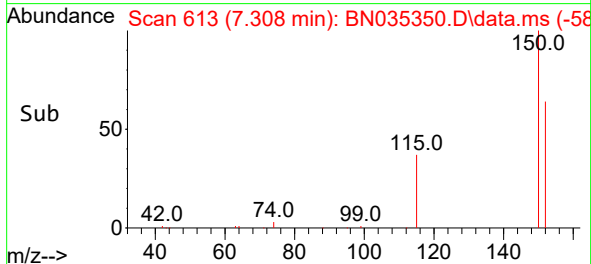


#1  
 1,4-Dichlorobenzene-d4  
 Concen: 0.400 ng  
 RT: 7.308 min Scan# 61  
 Delta R.T. -0.000 min  
 Lab File: BN035350.D  
 Acq: 27 Nov 2024 15:34

Instrument :  
 BNA\_N  
 ClientSampleId :  
 SSTDICC0.1

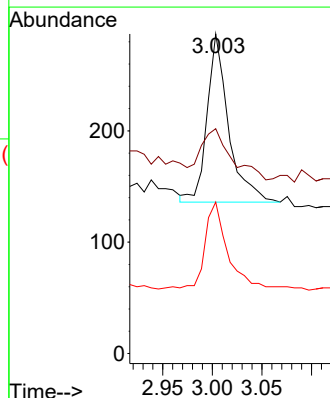
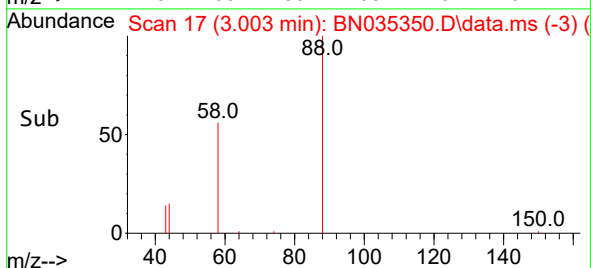
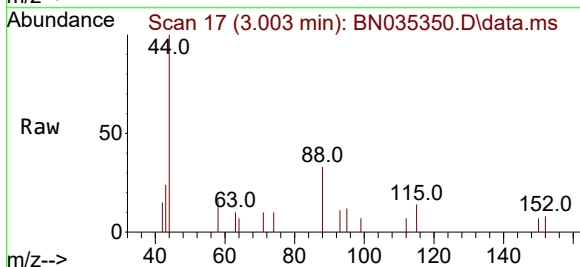


Tgt Ion:152 Resp: 2237  
 Ion Ratio Lower Upper  
 152 100  
 150 153.6 124.0 186.0  
 115 62.8 49.6 74.4

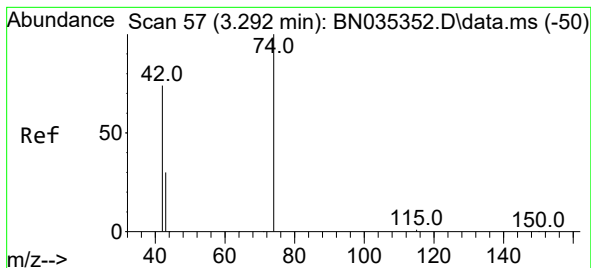


#2  
 1,4-Dioxane  
 Concen: 0.112 ng  
 RT: 3.003 min Scan# 17  
 Delta R.T. 0.000 min  
 Lab File: BN035350.D  
 Acq: 27 Nov 2024 15:34

Tgt Ion: 88 Resp: 227  
 Ion Ratio Lower Upper  
 88 100  
 43 41.4 17.2 25.8#  
 58 54.6 44.5 66.7







#3

n-Nitrosodimethylamine

Concen: 0.099 ng

RT: 3.299 min Scan# 51

Delta R.T. 0.007 min

Lab File: BN035350.D

Acq: 27 Nov 2024 15:34

Instrument :

BNA\_N

ClientSampleId :

SSTDICC0.1

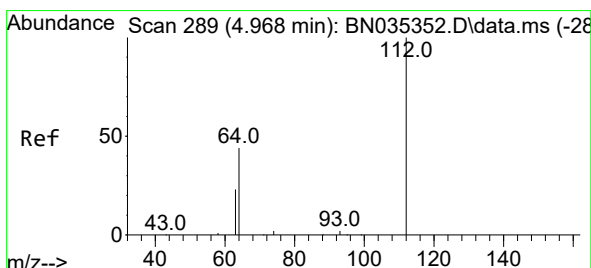
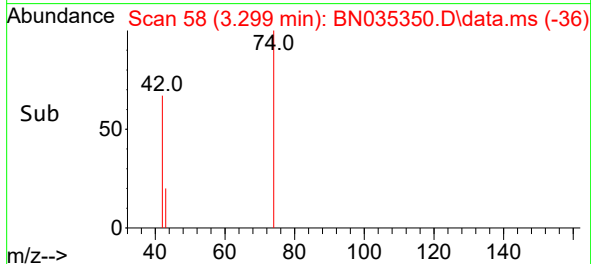
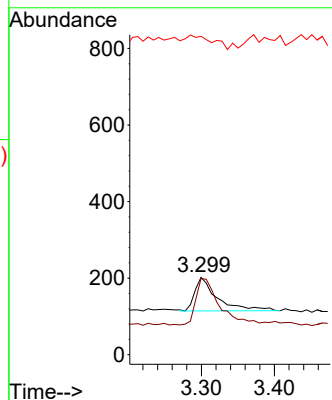
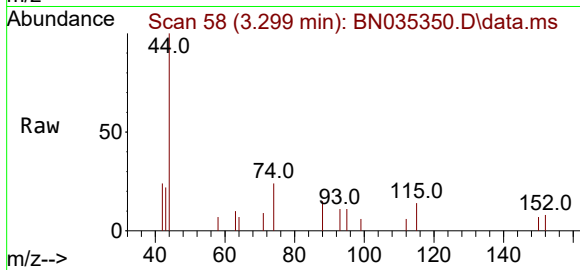
Tgt Ion: 42 Resp: 187

Ion Ratio Lower Upper

42 100

74 146.5 124.9 187.3

44 51.9 2.2 3.4#



#4

2-Fluorophenol

Concen: 0.101 ng

RT: 4.968 min Scan# 289

Delta R.T. 0.000 min

Lab File: BN035350.D

Acq: 27 Nov 2024 15:34

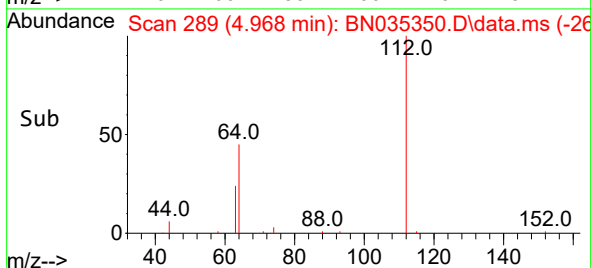
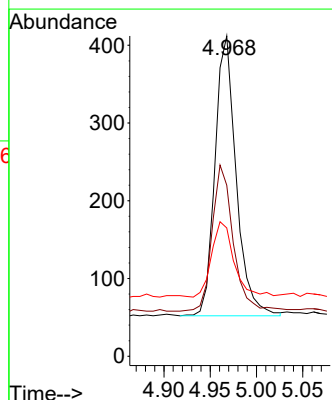
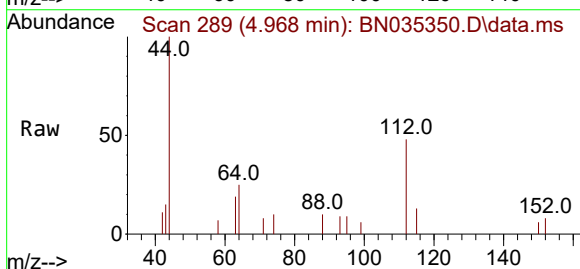
Tgt Ion: 112 Resp: 573

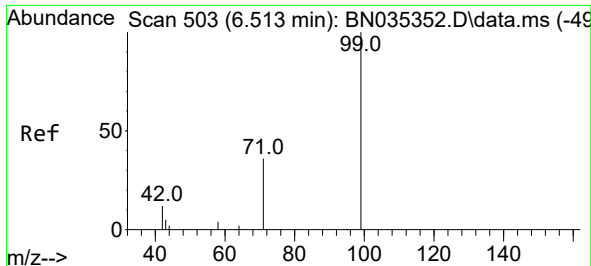
Ion Ratio Lower Upper

112 100

64 52.0 39.8 59.8

63 28.8 21.0 31.6

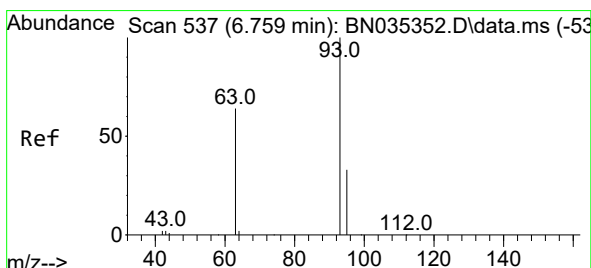
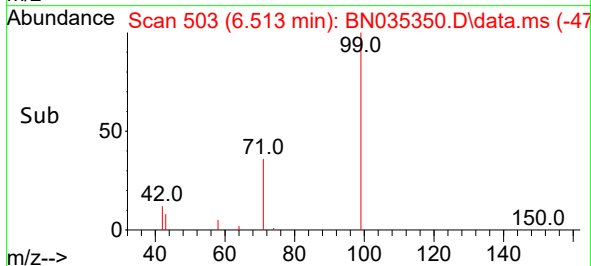
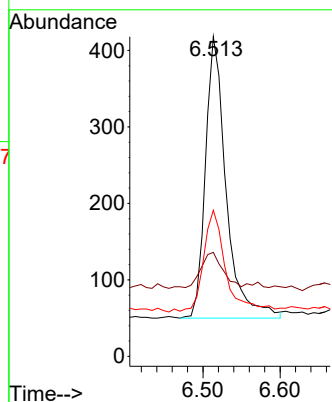
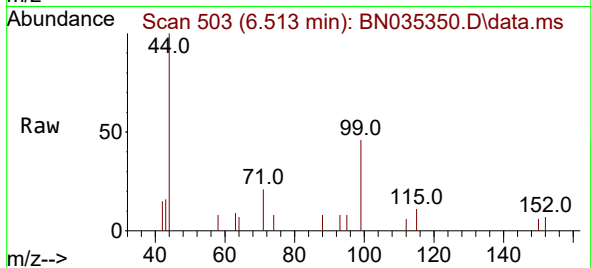




#5  
Phenol-d6  
Concen: 0.096 ng  
RT: 6.513 min Scan# 503  
Delta R.T. 0.000 min  
Lab File: BN035350.D  
Acq: 27 Nov 2024 15:34

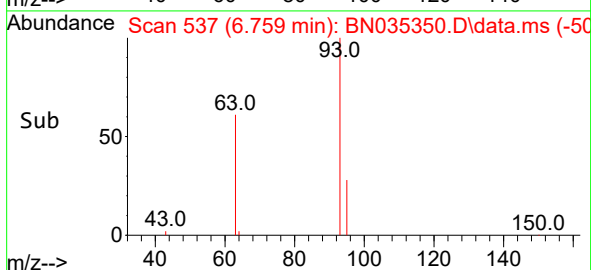
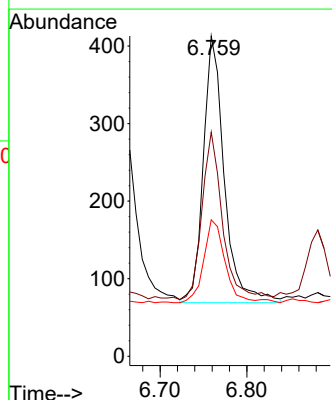
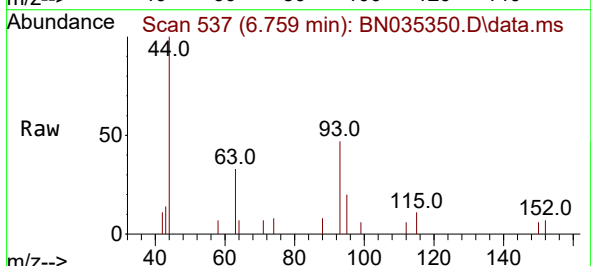
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC0.1

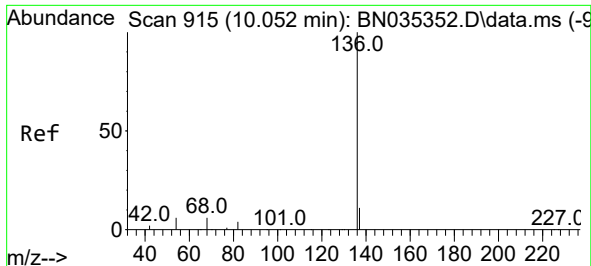
Tgt Ion: 99 Resp: 686  
Ion Ratio Lower Upper  
99 100  
42 13.7 11.4 17.2  
71 38.9 29.3 43.9



#6  
bis(2-Chloroethyl)ether  
Concen: 0.108 ng  
RT: 6.759 min Scan# 537  
Delta R.T. 0.000 min  
Lab File: BN035350.D  
Acq: 27 Nov 2024 15:34

Tgt Ion: 93 Resp: 579  
Ion Ratio Lower Upper  
93 100  
63 61.7 50.4 75.6  
95 31.3 25.7 38.5

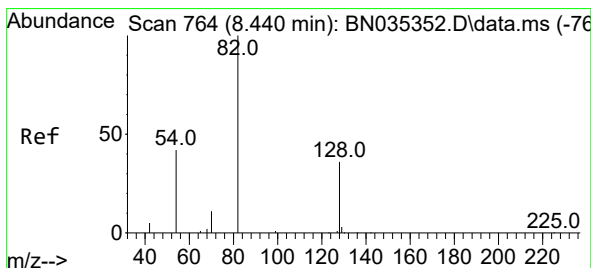
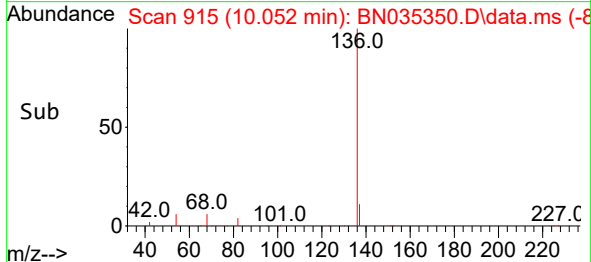
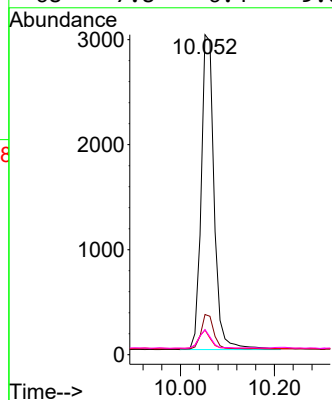
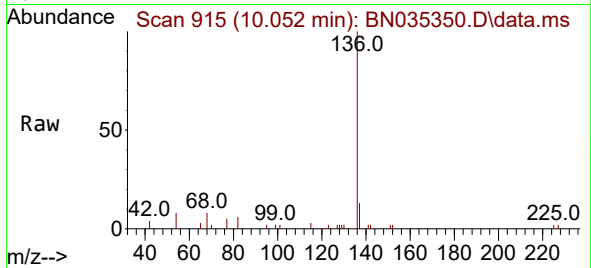




#7  
Naphthalene-d8  
Concen: 0.400 ng  
RT: 10.052 min Scan# 915  
Delta R.T. 0.000 min  
Lab File: BN035350.D  
Acq: 27 Nov 2024 15:34

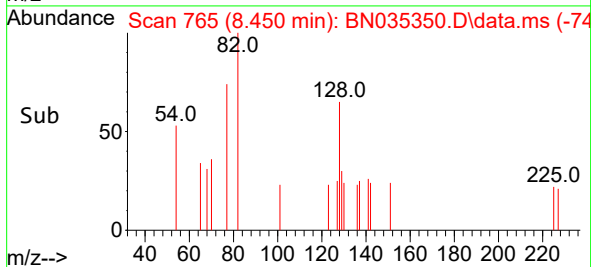
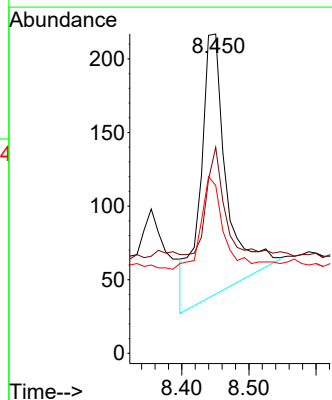
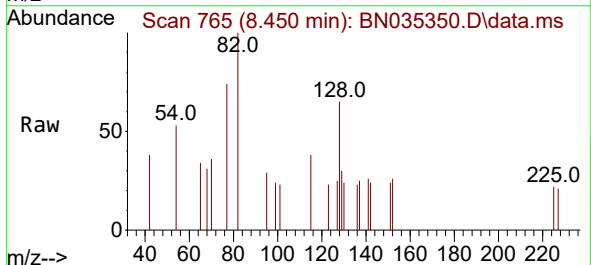
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC0.1

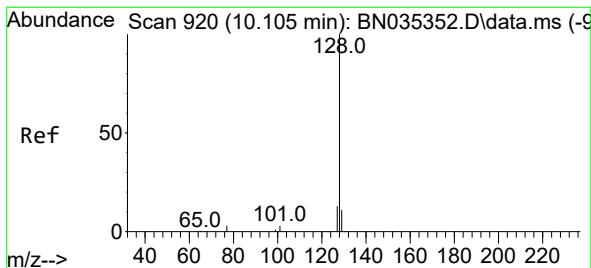
|             |       |           |
|-------------|-------|-----------|
| Tgt Ion:136 | Resp: | 5753      |
| Ion Ratio   | Lower | Upper     |
| 136         | 100   |           |
| 137         | 12.6  | 10.2 15.2 |
| 54          | 7.7   | 6.1 9.1   |
| 68          | 7.8   | 6.4 9.6   |



#8  
Nitrobenzene-d5  
Concen: 0.098 ng  
RT: 8.450 min Scan# 765  
Delta R.T. 0.011 min  
Lab File: BN035350.D  
Acq: 27 Nov 2024 15:34

|             |       |            |
|-------------|-------|------------|
| Tgt Ion: 82 | Resp: | 492        |
| Ion Ratio   | Lower | Upper      |
| 82          | 100   |            |
| 128         | 64.5  | 33.4 50.0# |
| 54          | 52.5  | 36.7 55.1  |





#9

Naphthalene

Concen: 0.102 ng

RT: 10.105 min Scan# 91

Delta R.T. 0.000 min

Lab File: BN035350.D

Acq: 27 Nov 2024 15:34

Instrument :

BNA\_N

ClientSampleId :

SSTDICC0.1

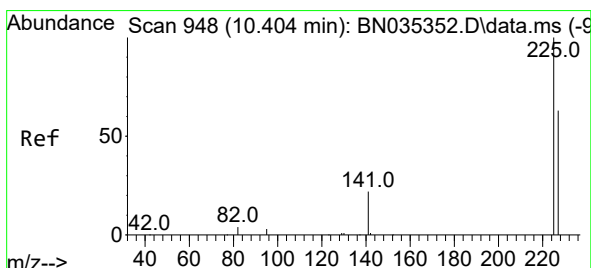
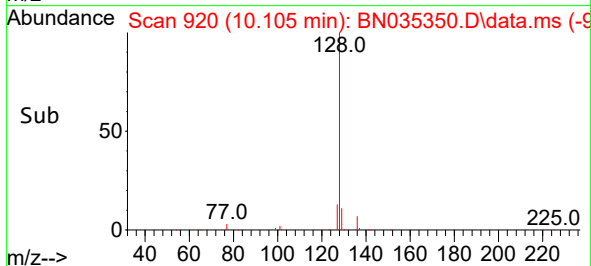
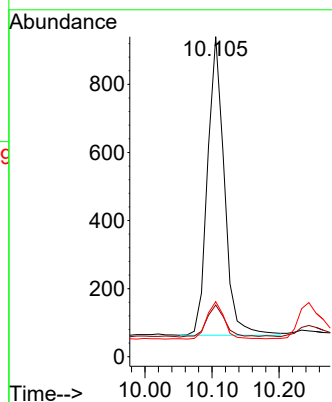
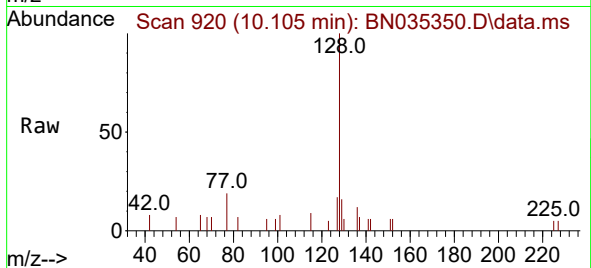
Tgt Ion:128 Resp: 1527

Ion Ratio Lower Upper

128 100

129 16.2 9.8 14.6#

127 17.2 11.4 17.2#



#10

Hexachlorobutadiene

Concen: 0.080 ng

RT: 10.404 min Scan# 948

Delta R.T. 0.000 min

Lab File: BN035350.D

Acq: 27 Nov 2024 15:34

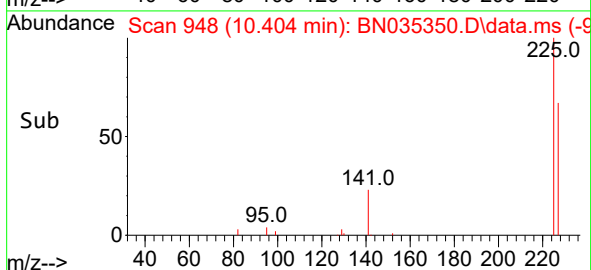
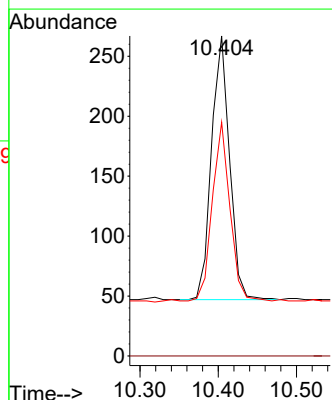
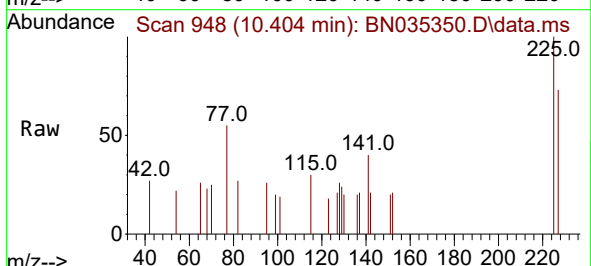
Tgt Ion:225 Resp: 352

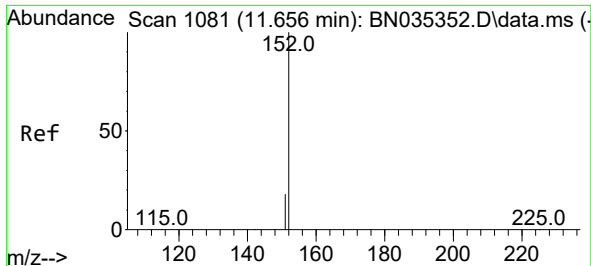
Ion Ratio Lower Upper

225 100

223 0.0 0.0 0.0

227 66.2 51.3 76.9

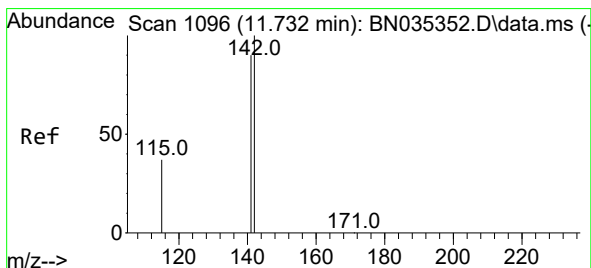
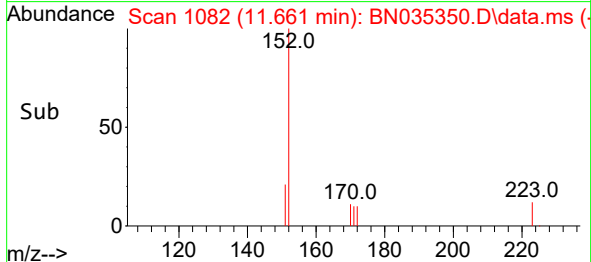
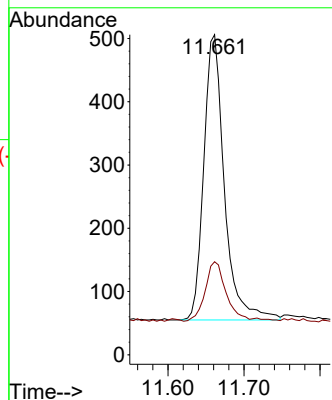
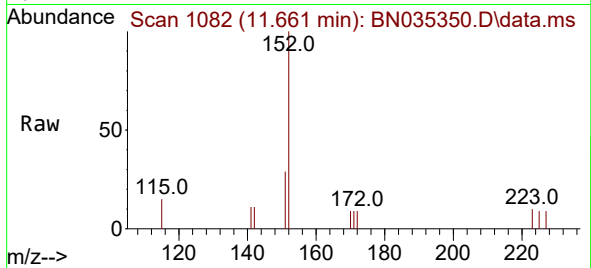




#11  
2-Methylnaphthalene-d10  
Concen: 0.083 ng  
RT: 11.661 min Scan# 1082  
Delta R.T. 0.005 min  
Lab File: BN035350.D  
Acq: 27 Nov 2024 15:34

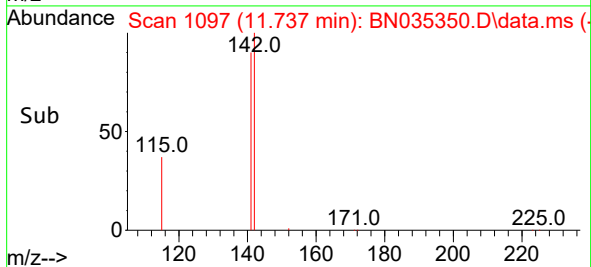
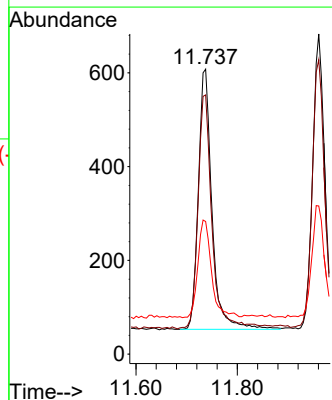
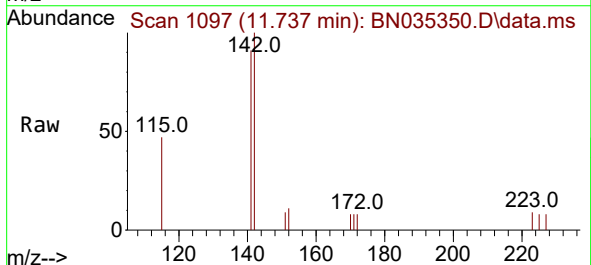
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC0.1

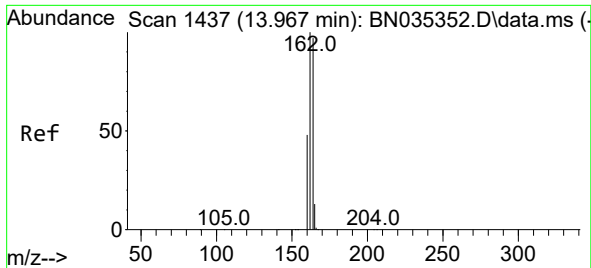
Tgt Ion:152 Resp: 850  
Ion Ratio Lower Upper  
152 100  
151 21.1 16.6 25.0



#12  
2-Methylnaphthalene  
Concen: 0.094 ng  
RT: 11.737 min Scan# 1097  
Delta R.T. 0.005 min  
Lab File: BN035350.D  
Acq: 27 Nov 2024 15:34

Tgt Ion:142 Resp: 1042  
Ion Ratio Lower Upper  
142 100  
141 91.0 72.2 108.4  
115 46.5 31.4 47.0

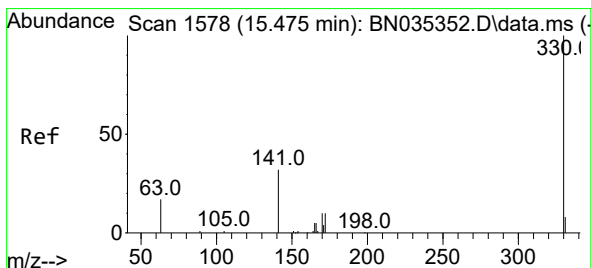
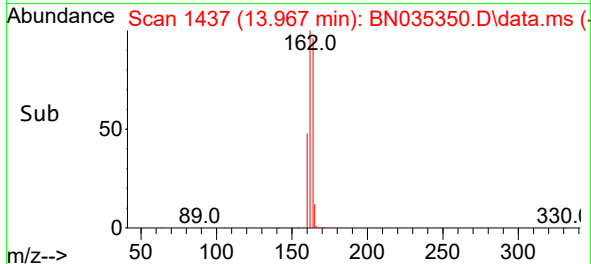
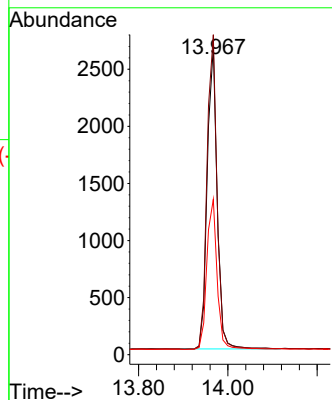
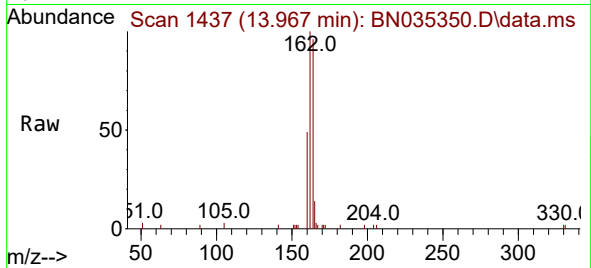




#13  
Acenaphthene-d10  
Concen: 0.400 ng  
RT: 13.967 min Scan# 1437  
Delta R.T. 0.000 min  
Lab File: BN035350.D  
Acq: 27 Nov 2024 15:34

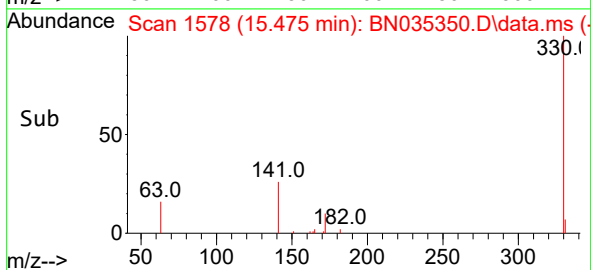
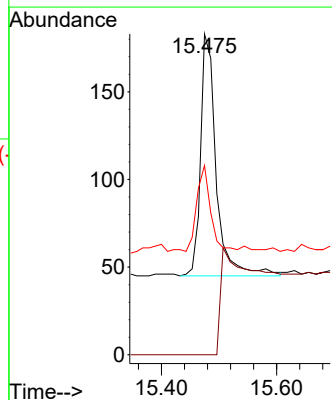
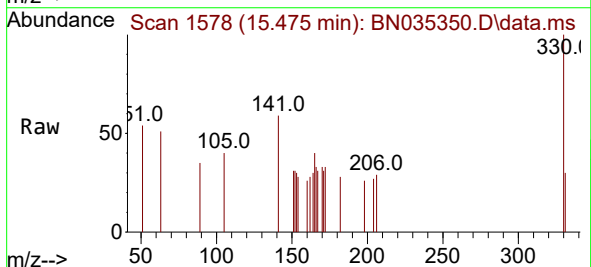
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC0.1

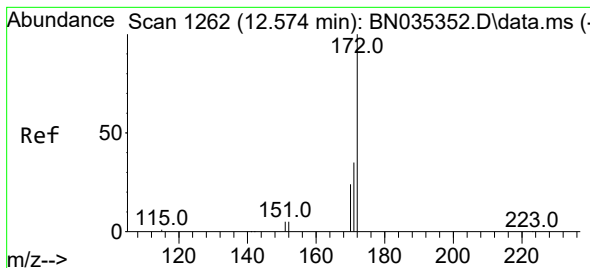
Tgt Ion:164 Resp: 4077  
Ion Ratio Lower Upper  
164 100  
162 103.9 82.2 123.2  
160 50.4 40.1 60.1



#14  
2,4,6-Tribromophenol  
Concen: 0.095 ng  
RT: 15.475 min Scan# 1578  
Delta R.T. 0.000 min  
Lab File: BN035350.D  
Acq: 27 Nov 2024 15:34

Tgt Ion:330 Resp: 278  
Ion Ratio Lower Upper  
330 100  
332 0.0 0.0 0.0  
141 29.1 26.6 40.0





#15

2-Fluorobiphenyl

Concen: 0.092 ng

RT: 12.574 min Scan# 1

Delta R.T. 0.000 min

Lab File: BN035350.D

Acq: 27 Nov 2024 15:34

Instrument :

BNA\_N

ClientSampleId :

SSTDICC0.1

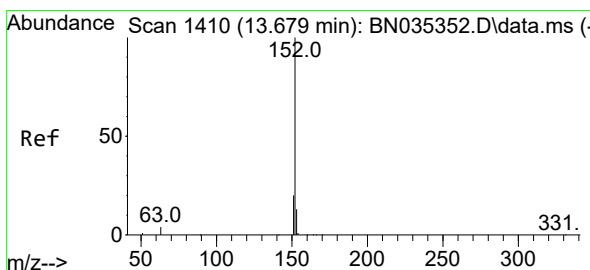
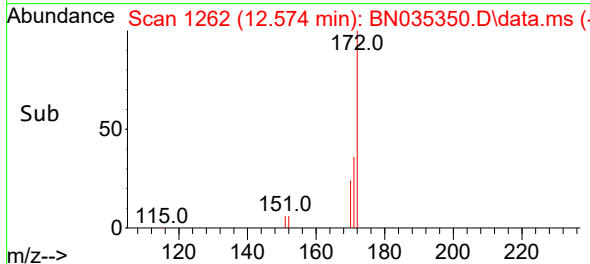
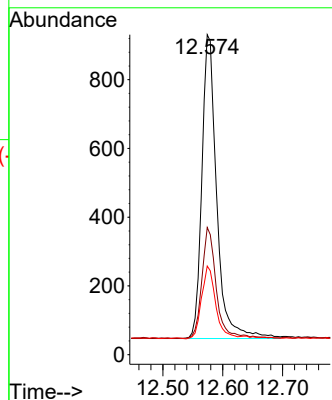
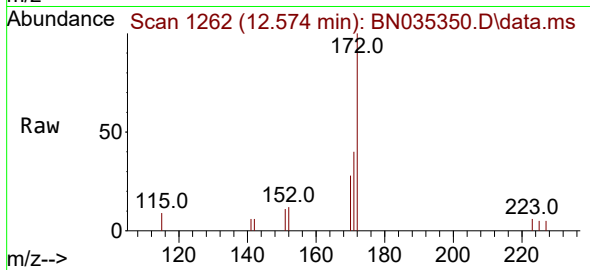
Tgt Ion:172 Resp: 1518

Ion Ratio Lower Upper

172 100

171 39.7 29.0 43.4

170 27.7 19.8 29.8



#16

Acenaphthylene

Concen: 0.096 ng

RT: 13.679 min Scan# 1410

Delta R.T. 0.000 min

Lab File: BN035350.D

Acq: 27 Nov 2024 15:34

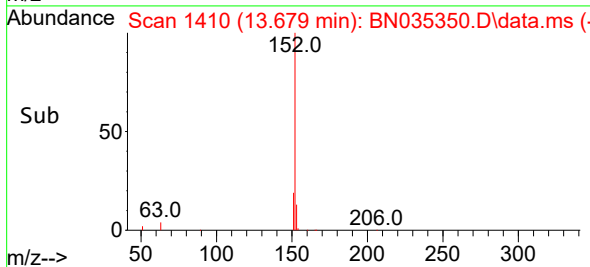
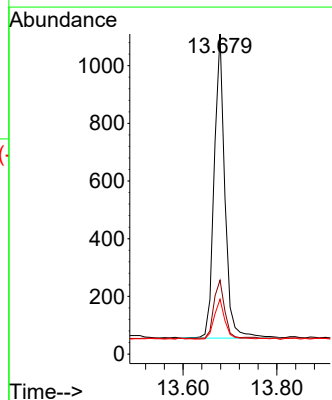
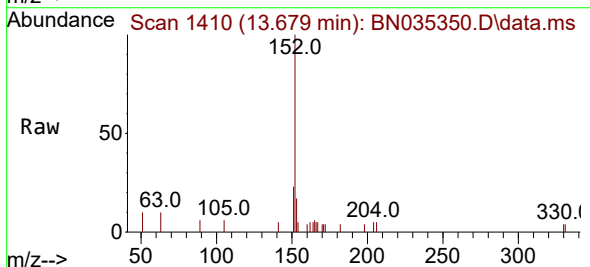
Tgt Ion:152 Resp: 1675

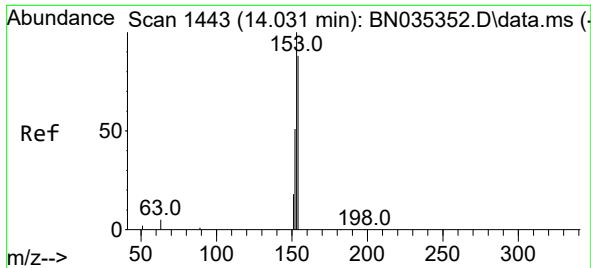
Ion Ratio Lower Upper

152 100

151 20.4 16.2 24.2

153 13.1 10.4 15.6

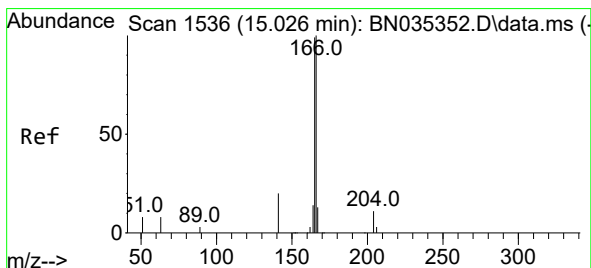
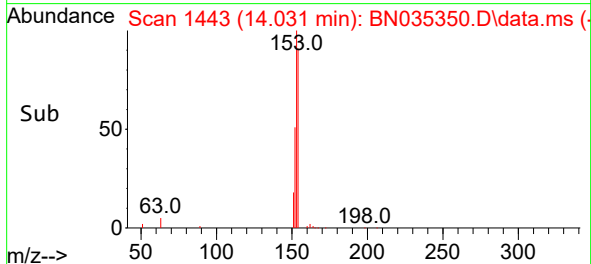
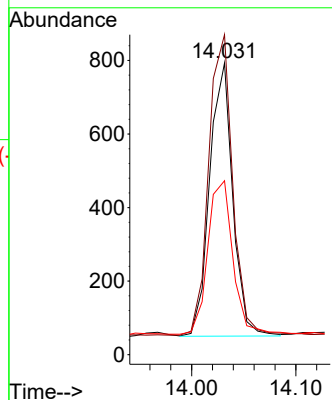
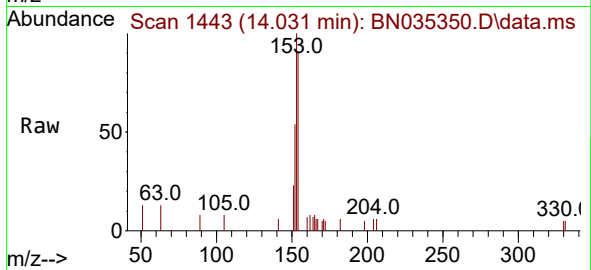




#17  
Acenaphthene  
Concen: 0.100 ng  
RT: 14.031 min Scan# 1443  
Delta R.T. 0.000 min  
Lab File: BN035350.D  
Acq: 27 Nov 2024 15:34

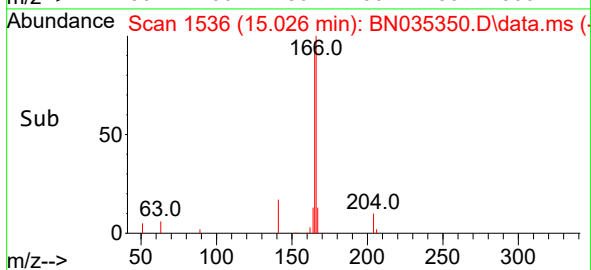
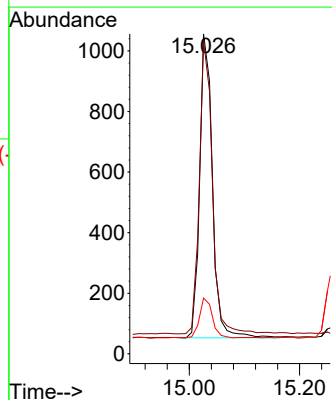
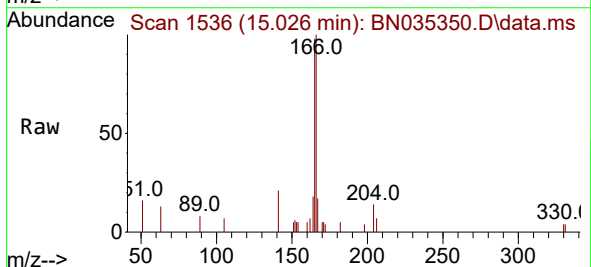
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC0.1

Tgt Ion:154 Resp: 1143  
Ion Ratio Lower Upper  
154 100  
153 115.0 92.6 139.0  
152 60.9 49.0 73.6

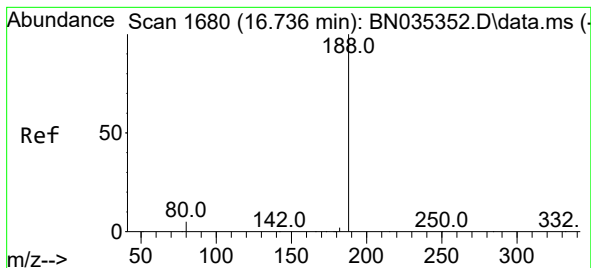


#18  
Fluorene  
Concen: 0.096 ng  
RT: 15.026 min Scan# 1536  
Delta R.T. 0.000 min  
Lab File: BN035350.D  
Acq: 27 Nov 2024 15:34

Tgt Ion:166 Resp: 1620  
Ion Ratio Lower Upper  
166 100  
165 97.7 79.7 119.5  
167 13.1 10.8 16.2







#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 16.736 min Scan# 1

Delta R.T. 0.000 min

Lab File: BN035350.D

Acq: 27 Nov 2024 15:34

Instrument :

BNA\_N

ClientSampleId :

SSTDICC0.1

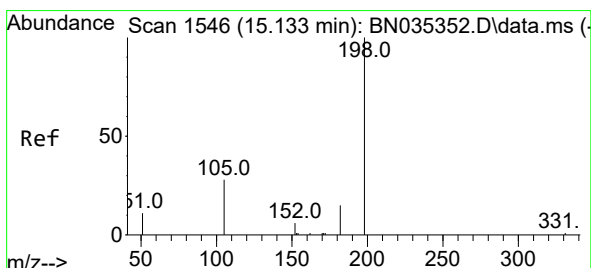
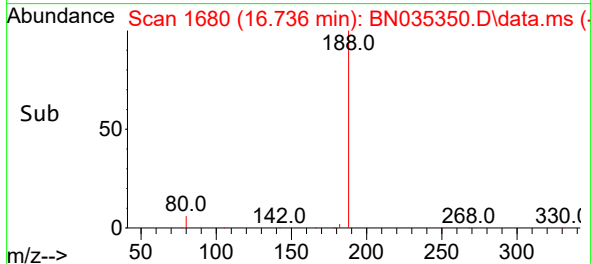
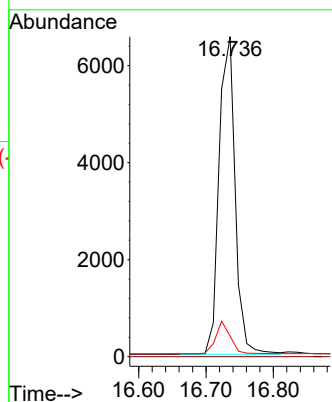
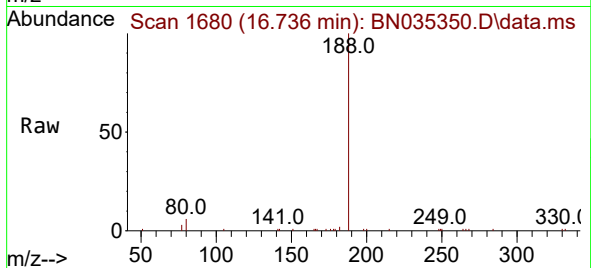
Tgt Ion:188 Resp: 10855

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 6.4 4.6 6.8



#20

4,6-Dinitro-2-methylphenol

Concen: 0.046 ng

RT: 15.133 min Scan# 1546

Delta R.T. 0.000 min

Lab File: BN035350.D

Acq: 27 Nov 2024 15:34

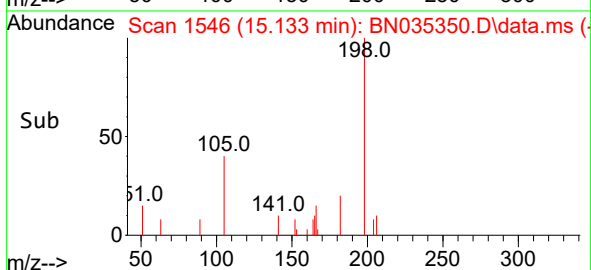
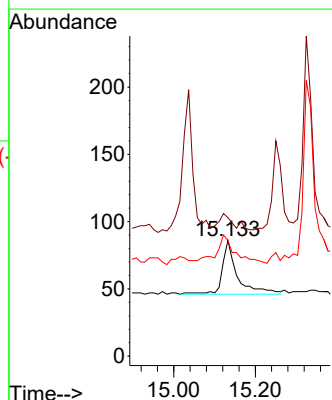
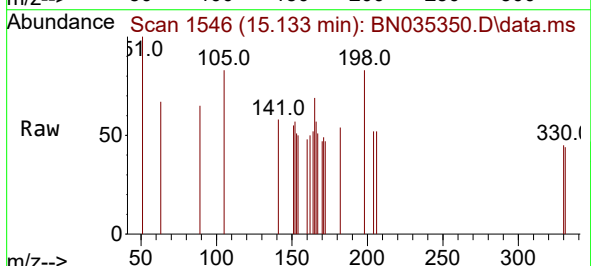
Tgt Ion:198 Resp: 103

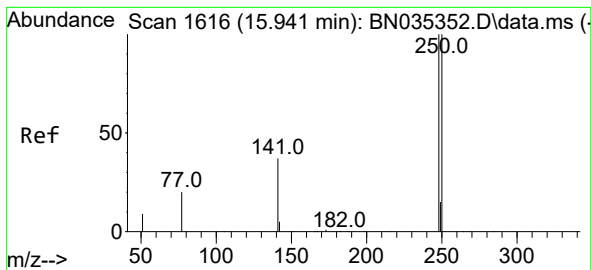
Ion Ratio Lower Upper

198 100

51 119.8 46.5 69.7#

105 100.0 45.3 67.9#

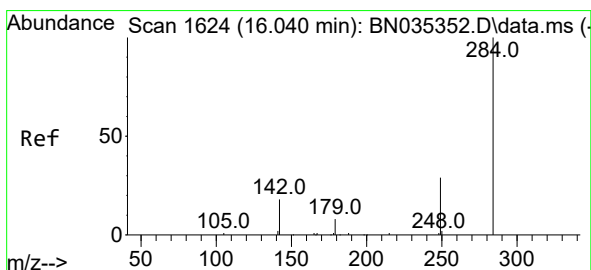
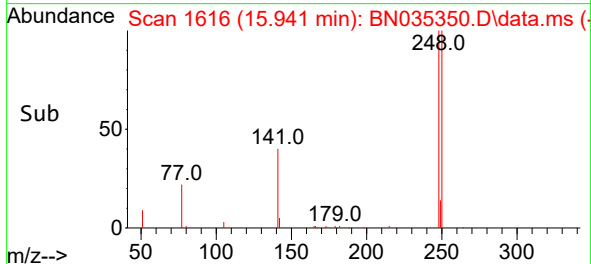
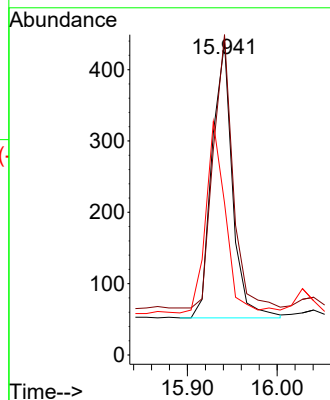
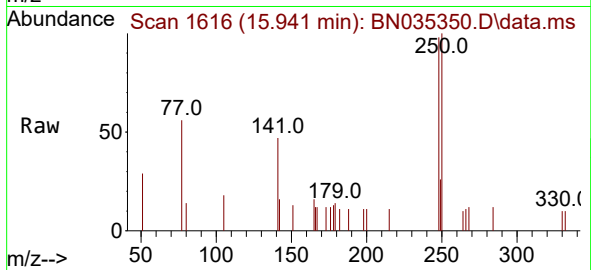




#21  
4-Bromophenyl-phenylether  
Concen: 0.088 ng  
RT: 15.941 min Scan# 1616  
Delta R.T. 0.000 min  
Lab File: BN035350.D  
Acq: 27 Nov 2024 15:34

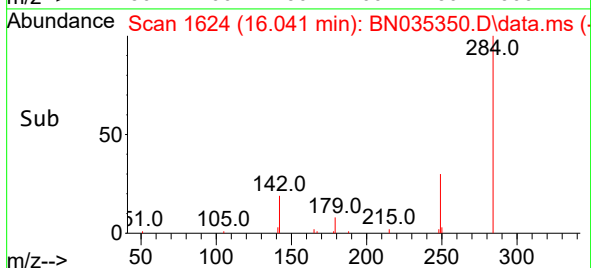
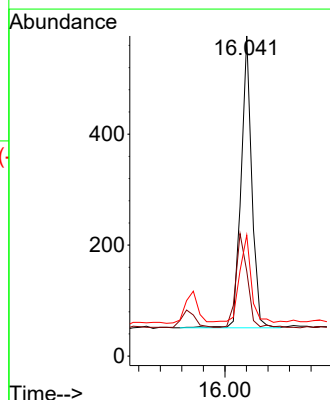
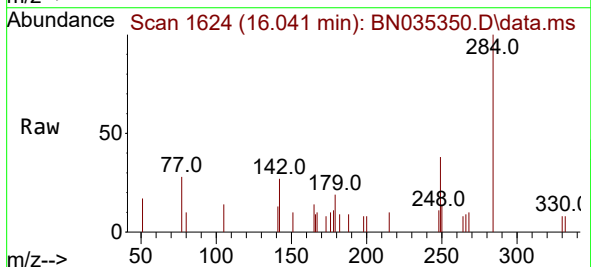
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC0.1

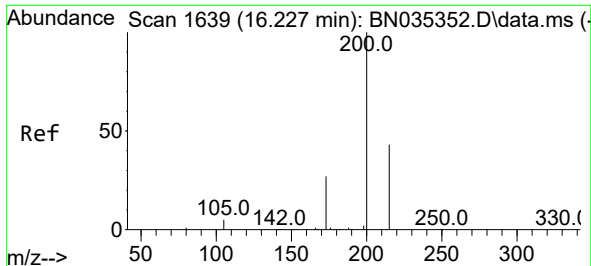
Tgt Ion:248 Resp: 612  
Ion Ratio Lower Upper  
248 100  
250 102.5 80.6 120.8  
141 48.6 31.5 47.3#



#22  
Hexachlorobenzene  
Concen: 0.100 ng  
RT: 16.041 min Scan# 1624  
Delta R.T. 0.000 min  
Lab File: BN035350.D  
Acq: 27 Nov 2024 15:34

Tgt Ion:284 Resp: 720  
Ion Ratio Lower Upper  
284 100  
142 35.4 26.7 40.1  
249 32.2 24.6 36.8

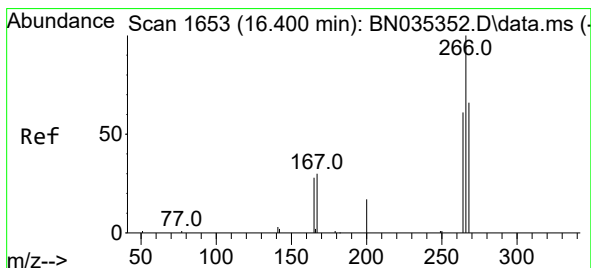
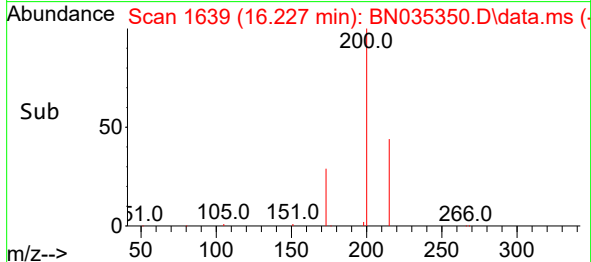
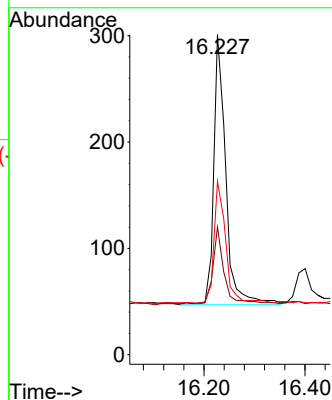
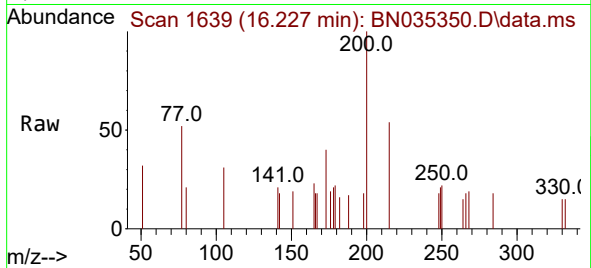




#23  
 Atrazine  
 Concen: 0.068 ng  
 RT: 16.227 min Scan# 1639  
 Delta R.T. 0.000 min  
 Lab File: BN035350.D  
 Acq: 27 Nov 2024 15:34

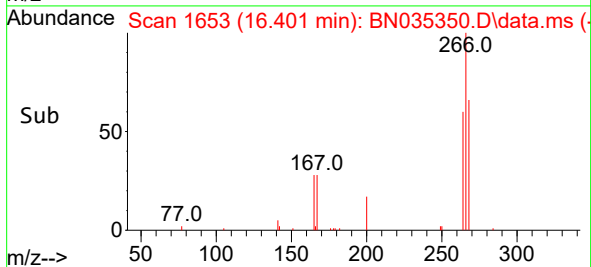
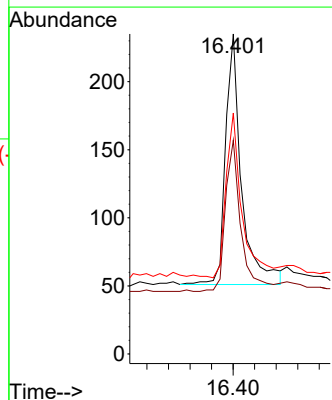
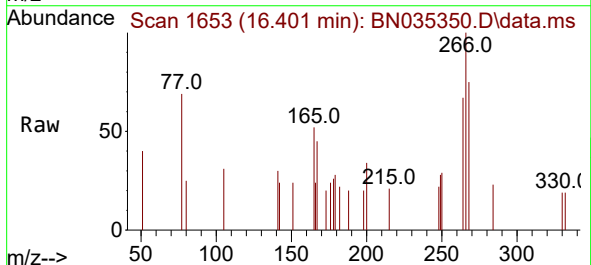
Instrument :  
 BNA\_N  
 ClientSampleId :  
 SSTDICC0.1

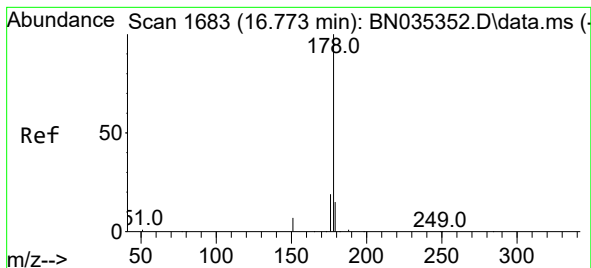
Tgt Ion:200 Resp: 421  
 Ion Ratio Lower Upper  
 200 100  
 173 39.9 24.1 36.1#  
 215 54.2 36.9 55.3



#24  
 Pentachlorophenol  
 Concen: 0.114 ng  
 RT: 16.401 min Scan# 1653  
 Delta R.T. 0.000 min  
 Lab File: BN035350.D  
 Acq: 27 Nov 2024 15:34

Tgt Ion:266 Resp: 381  
 Ion Ratio Lower Upper  
 266 100  
 264 58.3 42.3 63.5  
 268 63.3 43.3 64.9





#25

Phenanthrene

Concen: 0.104 ng

RT: 16.773 min Scan# 1683

Delta R.T. 0.000 min

Lab File: BN035350.D

Acq: 27 Nov 2024 15:34

Instrument :

BNA\_N

ClientSampleId :

SSTDICC0.1

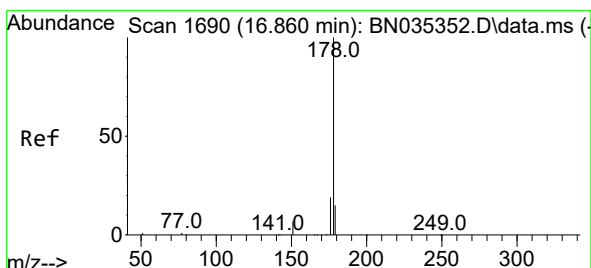
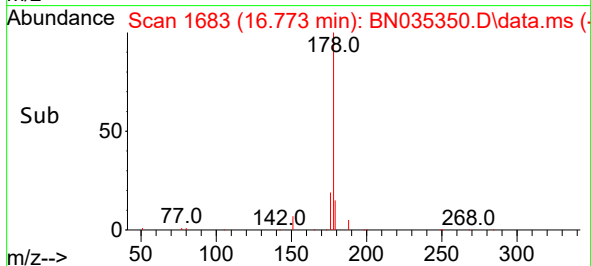
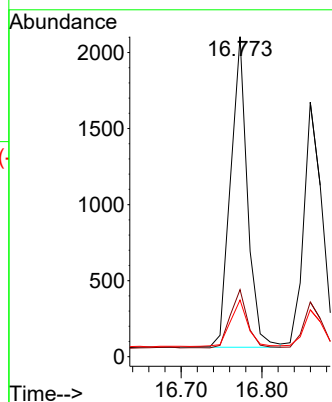
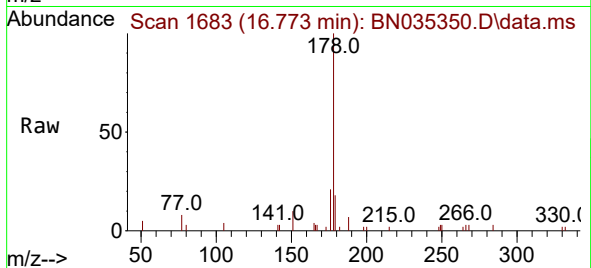
Tgt Ion:178 Resp: 2963

Ion Ratio Lower Upper

178 100

176 18.8 15.4 23.2

179 15.6 12.3 18.5



#26

Anthracene

Concen: 0.100 ng

RT: 16.860 min Scan# 1690

Delta R.T. 0.000 min

Lab File: BN035350.D

Acq: 27 Nov 2024 15:34

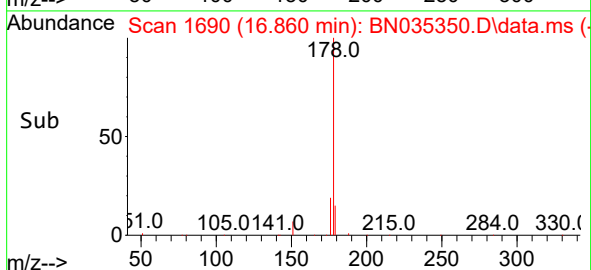
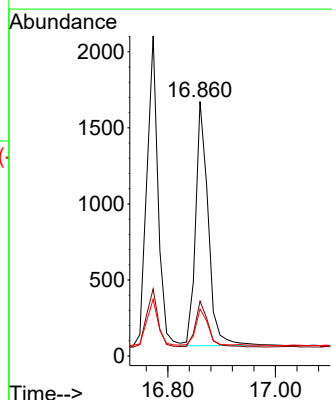
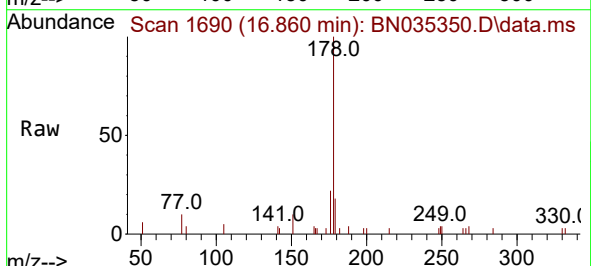
Tgt Ion:178 Resp: 2617

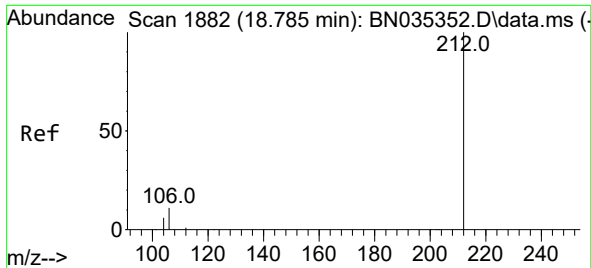
Ion Ratio Lower Upper

178 100

176 18.8 15.0 22.6

179 14.3 12.6 18.8

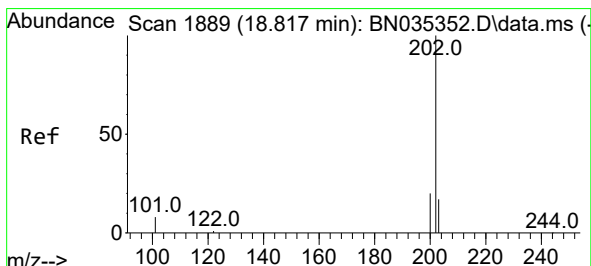
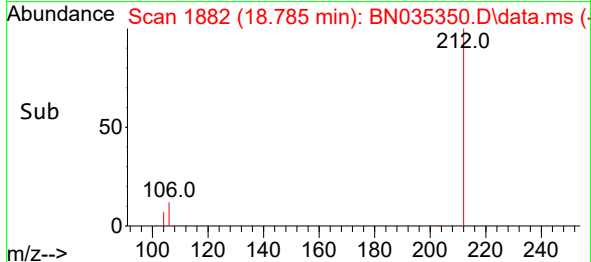
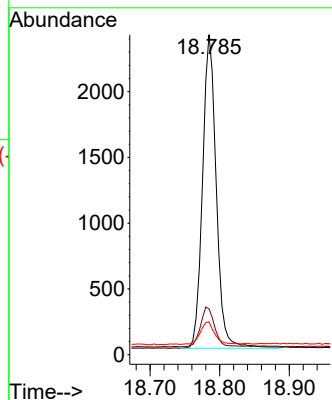
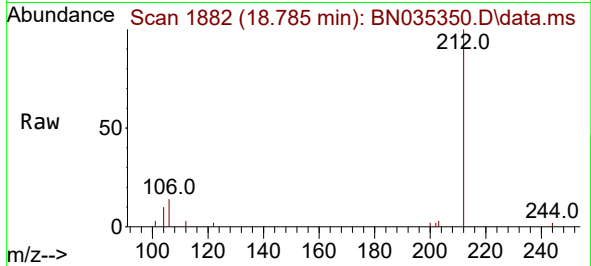




#27  
Fluoranthene-d10  
Concen: 0.098 ng  
RT: 18.785 min Scan# 1882  
Delta R.T. 0.000 min  
Lab File: BN035350.D  
Acq: 27 Nov 2024 15:34

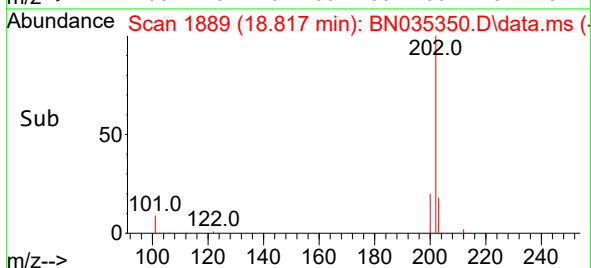
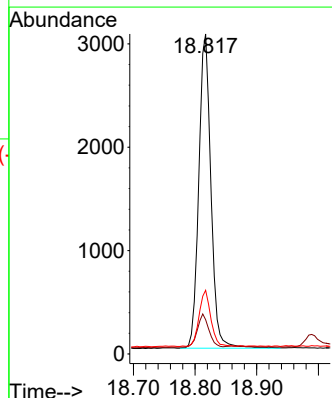
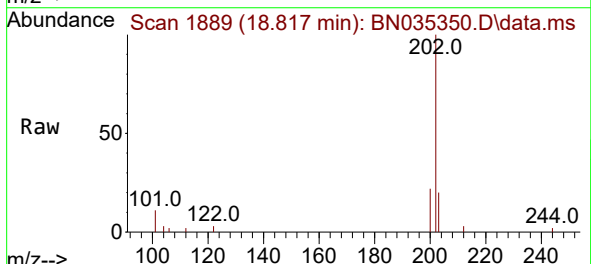
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC0.1

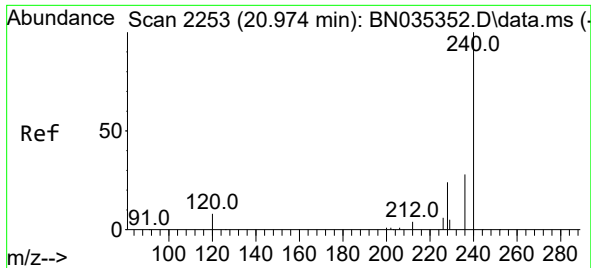
Tgt Ion:212 Resp: 3265  
Ion Ratio Lower Upper  
212 100  
106 12.8 9.2 13.8  
104 7.6 5.3 7.9



#28  
Fluoranthene  
Concen: 0.106 ng  
RT: 18.817 min Scan# 1889  
Delta R.T. 0.000 min  
Lab File: BN035350.D  
Acq: 27 Nov 2024 15:34

Tgt Ion:202 Resp: 4173  
Ion Ratio Lower Upper  
202 100  
101 10.2 7.4 11.0  
203 17.3 13.7 20.5

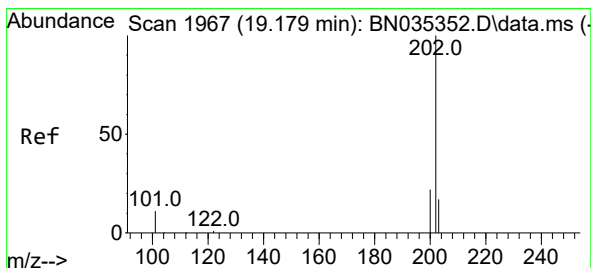
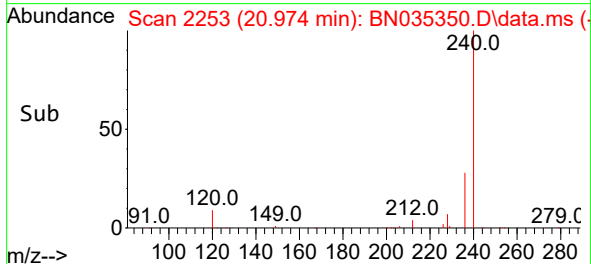
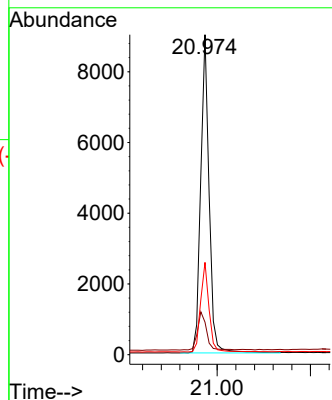
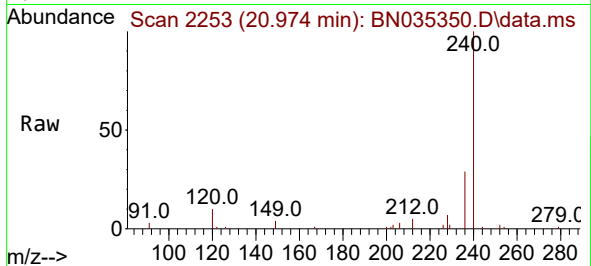




#29  
Chrysene-d12  
Concen: 0.400 ng  
RT: 20.974 min Scan# 21  
Delta R.T. 0.000 min  
Lab File: BN035350.D  
Acq: 27 Nov 2024 15:34

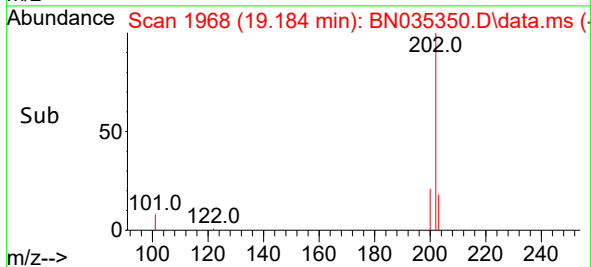
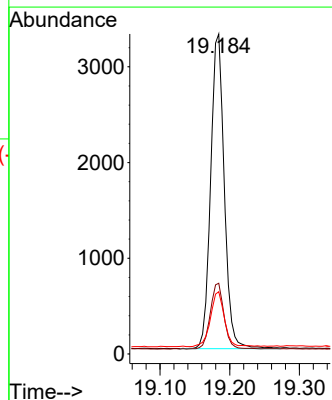
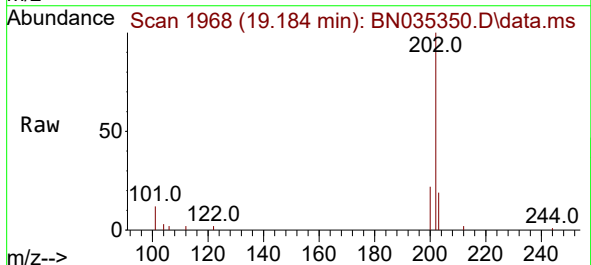
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC0.1

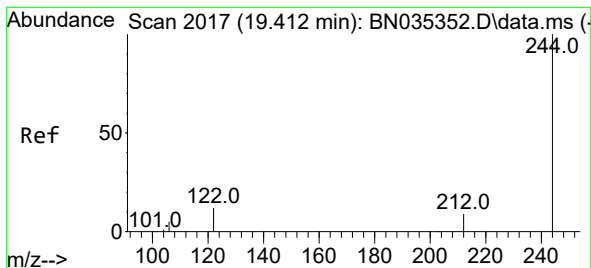
Tgt Ion:240 Resp: 11269  
Ion Ratio Lower Upper  
240 100  
120 10.1 7.9 11.9  
236 28.8 22.9 34.3



#30  
Pyrene  
Concen: 0.119 ng  
RT: 19.184 min Scan# 1968  
Delta R.T. 0.005 min  
Lab File: BN035350.D  
Acq: 27 Nov 2024 15:34

Tgt Ion:202 Resp: 4461  
Ion Ratio Lower Upper  
202 100  
200 21.1 17.0 25.4  
203 18.0 14.3 21.5





#31

Terphenyl-d14

Concen: 0.099 ng

RT: 19.412 min Scan# 2017

Delta R.T. 0.000 min

Lab File: BN035350.D

Acq: 27 Nov 2024 15:34

Instrument :

BNA\_N

ClientSampleId :

SSTDICC0.1

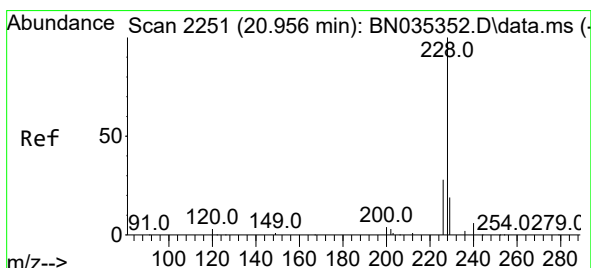
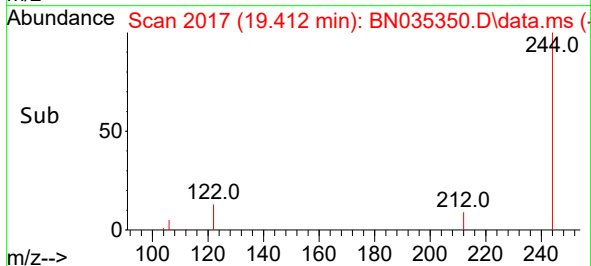
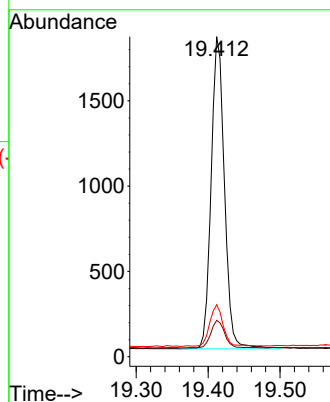
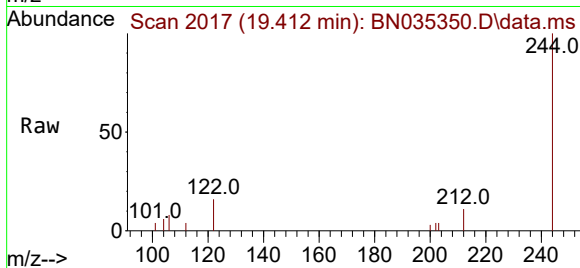
Tgt Ion:244 Resp: 2344

Ion Ratio Lower Upper

244 100

212 11.4 8.1 12.1

122 16.3 10.3 15.5#



#32

Benzo(a)anthracene

Concen: 0.103 ng

RT: 20.956 min Scan# 2251

Delta R.T. 0.000 min

Lab File: BN035350.D

Acq: 27 Nov 2024 15:34

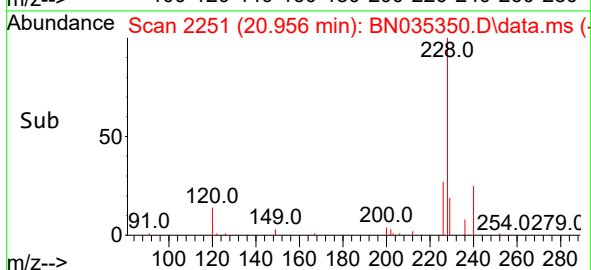
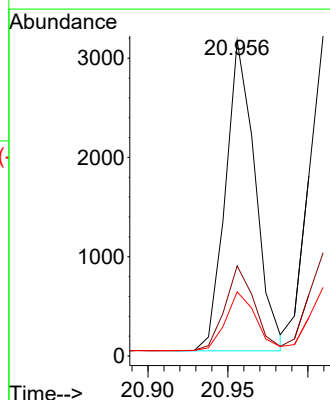
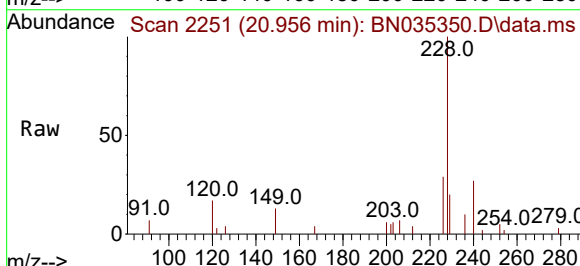
Tgt Ion:228 Resp: 4031

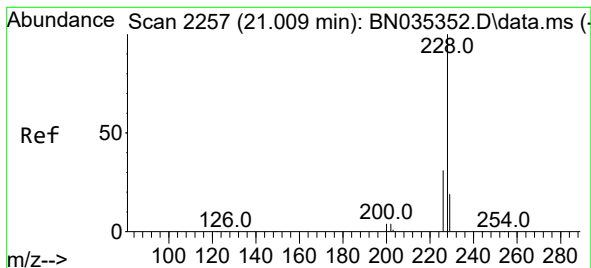
Ion Ratio Lower Upper

228 100

226 28.5 22.5 33.7

229 20.4 15.8 23.8





#33

Chrysene

Concen: 0.106 ng

RT: 21.010 min Scan# 21

Delta R.T. 0.000 min

Lab File: BN035350.D

Acq: 27 Nov 2024 15:34

Instrument :

BNA\_N

ClientSampleId :

SSTDICC0.1

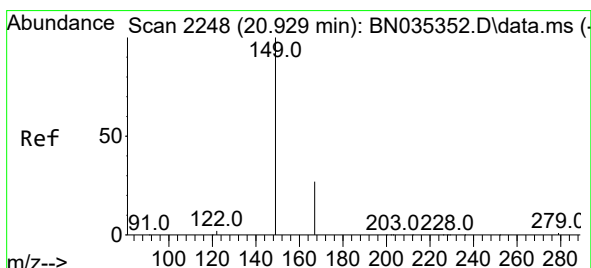
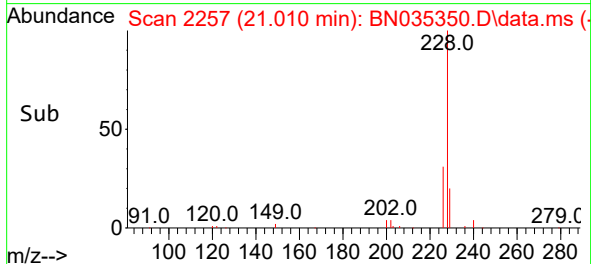
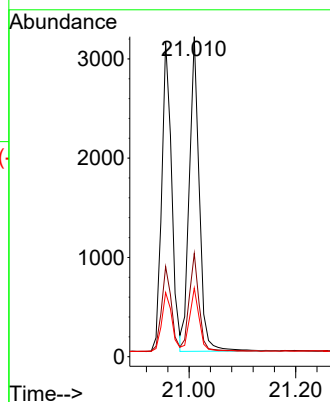
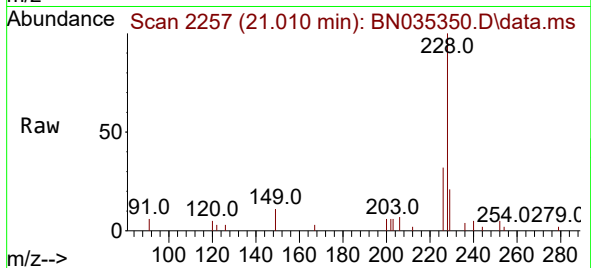
Tgt Ion:228 Resp: 4123

Ion Ratio Lower Upper

228 100

226 32.3 24.6 37.0

229 21.5 15.9 23.9



#34

Bis(2-ethylhexyl)phthalate

Concen: 0.097 ng

RT: 20.929 min Scan# 2248

Delta R.T. 0.000 min

Lab File: BN035350.D

Acq: 27 Nov 2024 15:34

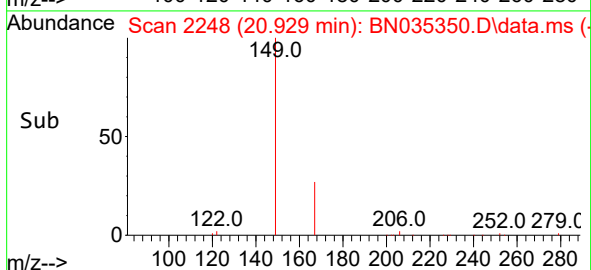
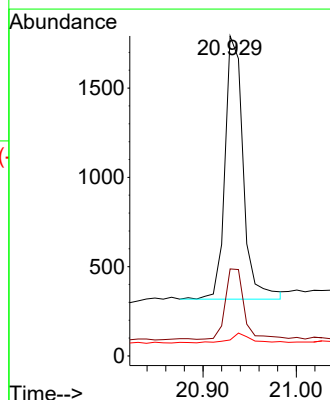
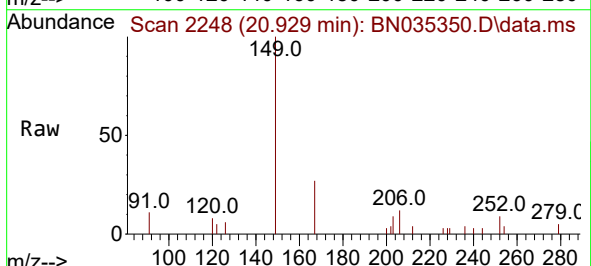
Tgt Ion:149 Resp: 1999

Ion Ratio Lower Upper

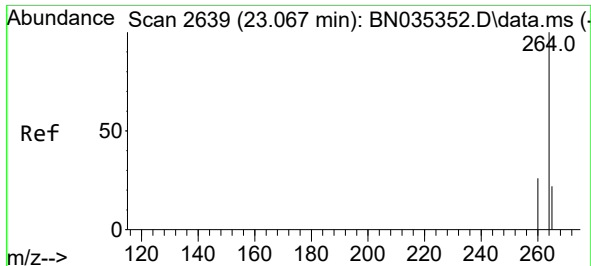
149 100

167 27.5 22.2 33.4

279 3.6 2.7 4.1



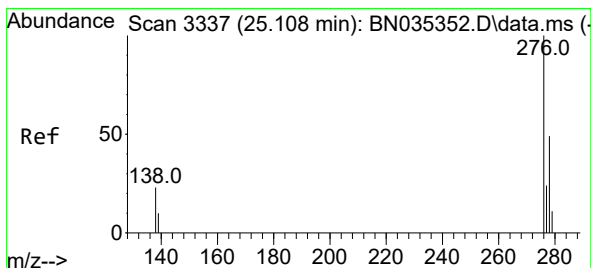
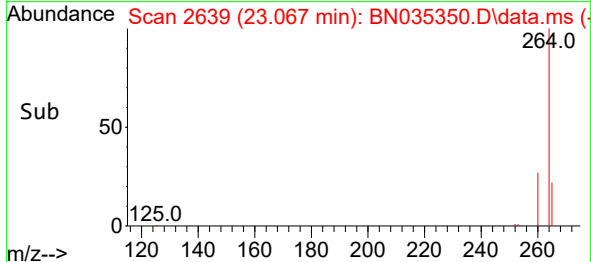
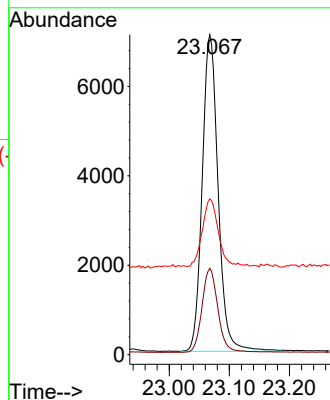
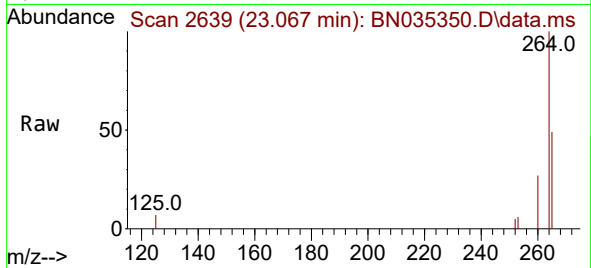




#35  
Perylene-d12  
Concen: 0.400 ng  
RT: 23.067 min Scan# 2  
Delta R.T. 0.000 min  
Lab File: BN035350.D  
Acq: 27 Nov 2024 15:34

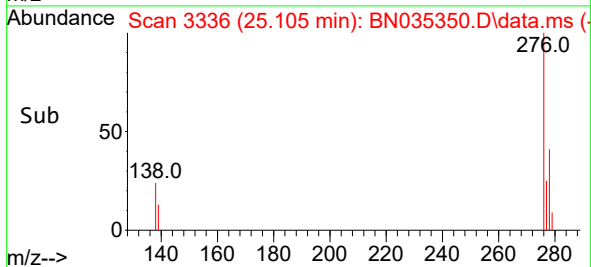
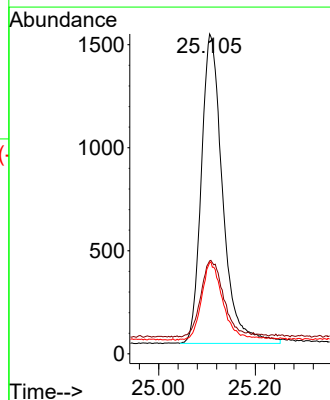
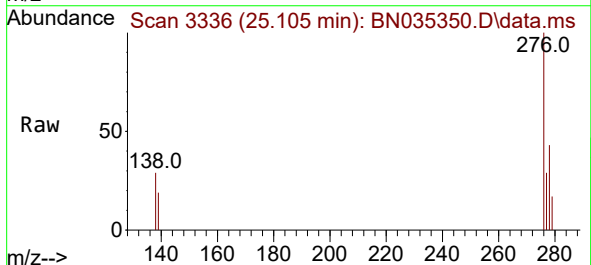
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC0.1

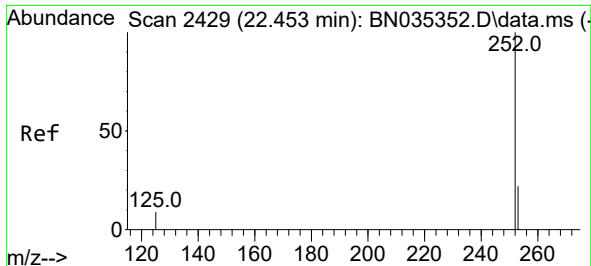
Tgt Ion:264 Resp: 13004  
Ion Ratio Lower Upper  
264 100  
260 27.0 21.4 32.2  
265 48.7 40.2 60.4



#36  
Indeno(1,2,3-cd)pyrene  
Concen: 0.088 ng  
RT: 25.105 min Scan# 3336  
Delta R.T. -0.003 min  
Lab File: BN035350.D  
Acq: 27 Nov 2024 15:34

Tgt Ion:276 Resp: 4586  
Ion Ratio Lower Upper  
276 100  
138 26.2 19.4 29.0  
277 25.6 19.8 29.6

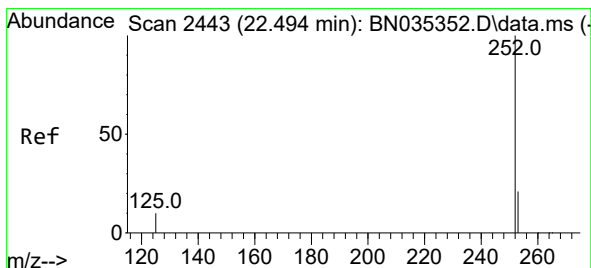
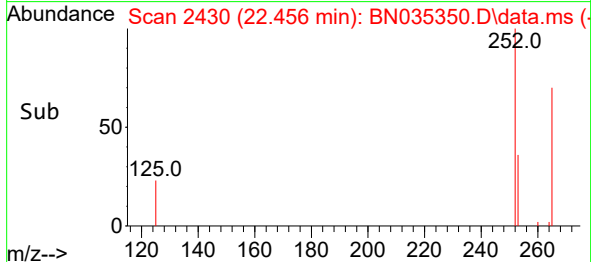
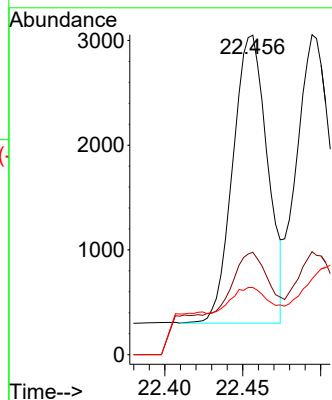
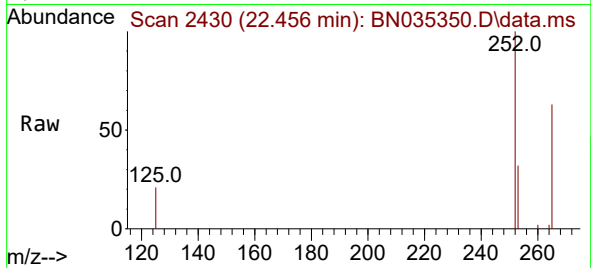




#37  
Benzo(b)fluoranthene  
Concen: 0.097 ng  
RT: 22.456 min Scan# 2430  
Delta R.T. 0.003 min  
Lab File: BN035350.D  
Acq: 27 Nov 2024 15:34

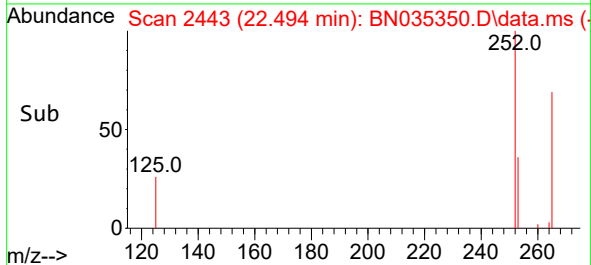
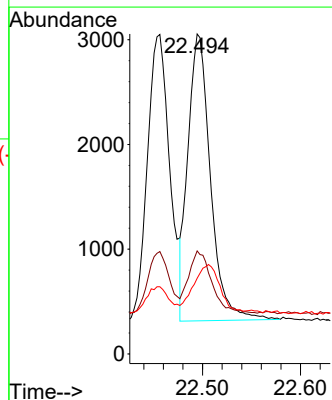
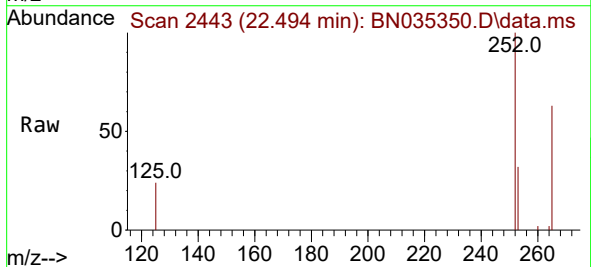
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC0.1

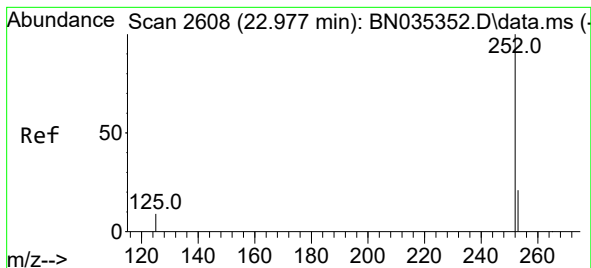
Tgt Ion:252 Resp: 4243  
Ion Ratio Lower Upper  
252 100  
253 32.1 19.6 29.4#  
125 21.0 9.6 14.4#



#38  
Benzo(k)fluoranthene  
Concen: 0.100 ng  
RT: 22.494 min Scan# 2443  
Delta R.T. 0.000 min  
Lab File: BN035350.D  
Acq: 27 Nov 2024 15:34

Tgt Ion:252 Resp: 4378  
Ion Ratio Lower Upper  
252 100  
253 32.2 19.5 29.3#  
125 23.7 10.2 15.4#





#39

Benzo(a)pyrene

Concen: 0.102 ng

RT: 22.977 min Scan# 2608

Delta R.T. 0.000 min

Lab File: BN035350.D

Acq: 27 Nov 2024 15:34

Instrument :

BNA\_N

ClientSampleId :

SSTDICC0.1

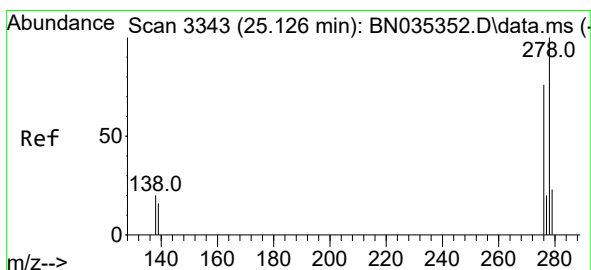
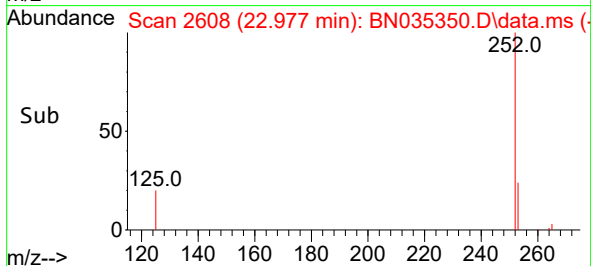
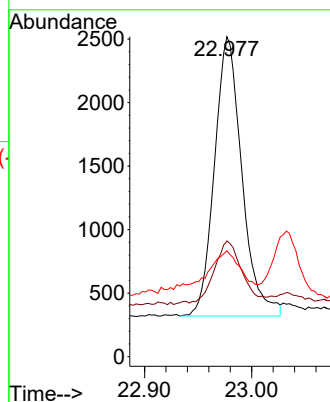
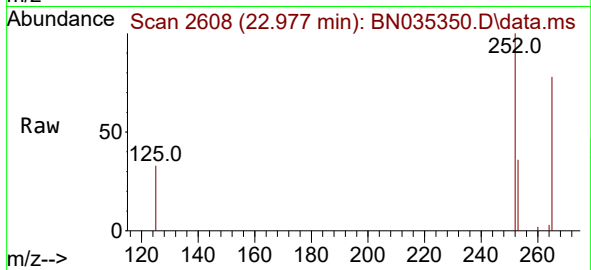
Tgt Ion:252 Resp: 3913

Ion Ratio Lower Upper

252 100

253 36.1 20.2 30.4#

125 33.1 10.9 16.3#



#40

Dibenzo(a,h)anthracene

Concen: 0.087 ng

RT: 25.126 min Scan# 3343

Delta R.T. 0.000 min

Lab File: BN035350.D

Acq: 27 Nov 2024 15:34

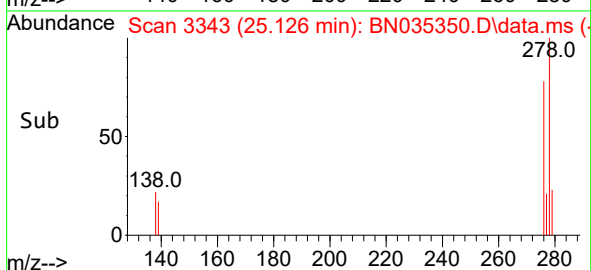
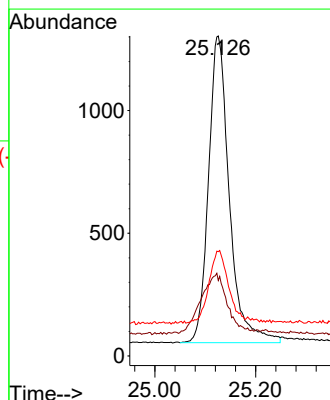
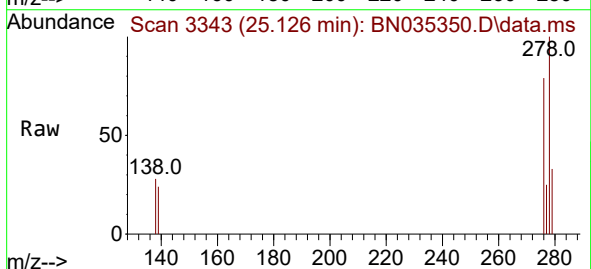
Tgt Ion:278 Resp: 3588

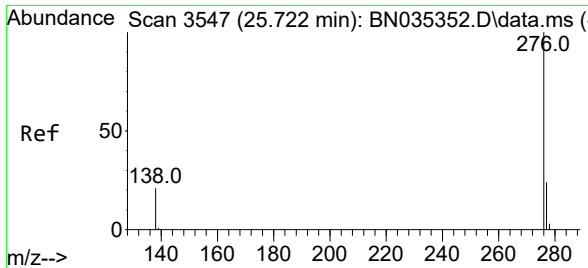
Ion Ratio Lower Upper

278 100

139 23.6 14.2 21.4#

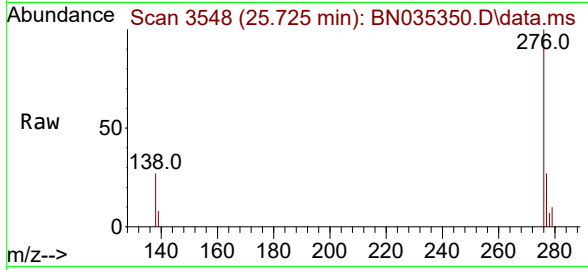
279 32.6 20.5 30.7#



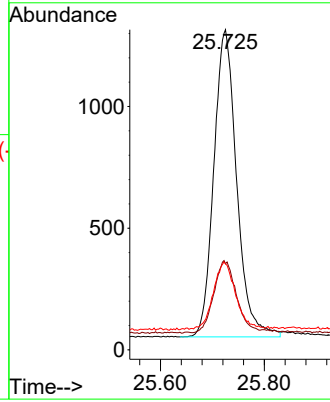
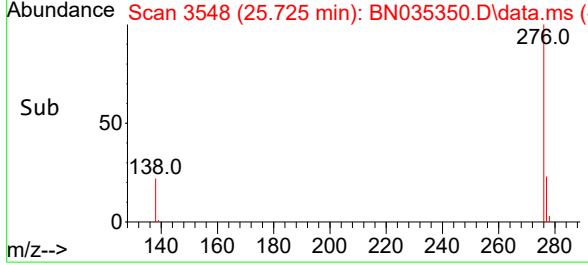


#41  
Benzo(g,h,i)perylene  
Concen: 0.088 ng  
RT: 25.725 min Scan# 31  
Delta R.T. 0.003 min  
Lab File: BN035350.D  
Acq: 27 Nov 2024 15:34

Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC0.1



Tgt Ion:276 Resp: 3863  
Ion Ratio Lower Upper  
276 100  
277 26.9 19.9 29.9  
138 26.8 17.8 26.8#



Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN112724\  
 Data File : BN035351.D  
 Acq On : 27 Nov 2024 16:10  
 Operator : RC/JU  
 Sample : SSTDICC0.2  
 Misc :  
 ALS Vial : 3 Sample Multiplier: 1

Instrument :  
 BNA\_N  
 ClientSampleId :  
 SSTDICC0.2

Quant Time: Nov 27 22:52:33 2024  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\8270-SIM-BN112724.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Wed Nov 27 22:48:24 2024  
 Response via : Initial Calibration

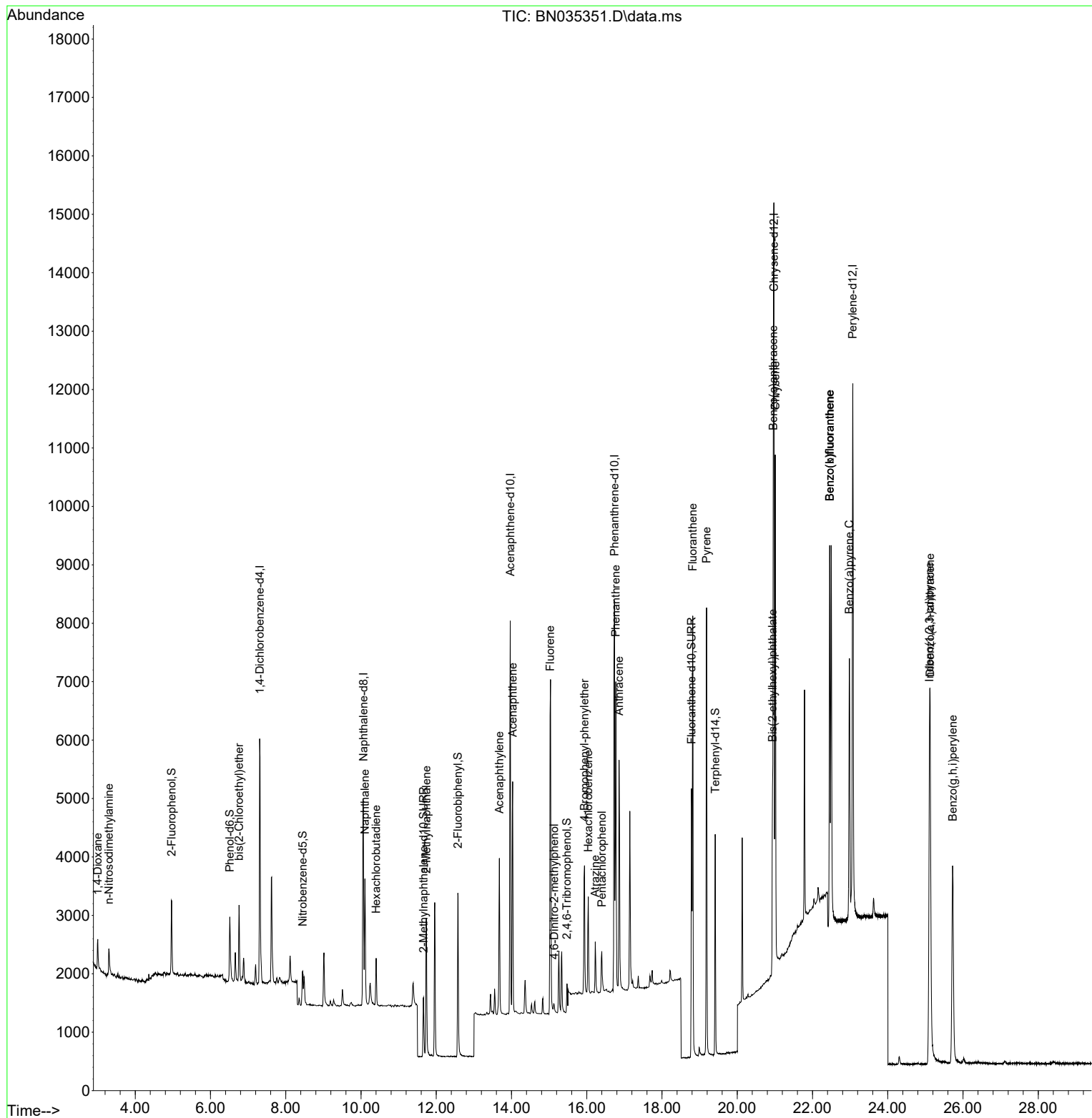
| Compound                      | R.T.   | QIon | Response | Conc  | Units | Dev(Min) |
|-------------------------------|--------|------|----------|-------|-------|----------|
| -----                         |        |      |          |       |       |          |
| Internal Standards            |        |      |          |       |       |          |
| 1) 1,4-Dichlorobenzene-d4     | 7.308  | 152  | 2084     | 0.400 | ng    | 0.00     |
| 7) Naphthalene-d8             | 10.063 | 136  | 5334     | 0.400 | ng    | # 0.01   |
| 13) Acenaphthene-d10          | 13.967 | 164  | 3808     | 0.400 | ng    | 0.00     |
| 19) Phenanthrene-d10          | 16.735 | 188  | 9904     | 0.400 | ng    | 0.00     |
| 29) Chrysene-d12              | 20.974 | 240  | 9963     | 0.400 | ng    | 0.00     |
| 35) Perylene-d12              | 23.070 | 264  | 11158    | 0.400 | ng    | 0.00     |
|                               |        |      |          |       |       |          |
| System Monitoring Compounds   |        |      |          |       |       |          |
| 4) 2-Fluorophenol             | 4.968  | 112  | 1159     | 0.219 | ng    | 0.00     |
| 5) Phenol-d6                  | 6.513  | 99   | 1236     | 0.186 | ng    | 0.00     |
| 8) Nitrobenzene-d5            | 8.450  | 82   | 806      | 0.174 | ng    | 0.01     |
| 11) 2-Methylnaphthalene-d10   | 11.661 | 152  | 1608     | 0.169 | ng    | 0.00     |
| 14) 2,4,6-Tribromophenol      | 15.475 | 330  | 492      | 0.179 | ng    | 0.00     |
| 15) 2-Fluorobiphenyl          | 12.574 | 172  | 2838     | 0.184 | ng    | 0.00     |
| 27) Fluoranthene-d10          | 18.784 | 212  | 5379     | 0.177 | ng    | 0.00     |
| 31) Terphenyl-d14             | 19.416 | 244  | 3871     | 0.185 | ng    | 0.00     |
|                               |        |      |          |       |       |          |
| Target Compounds              |        |      |          |       |       | Qvalue   |
| 2) 1,4-Dioxane                | 3.003  | 88   | 435      | 0.230 | ng    | # 95     |
| 3) n-Nitrosodimethylamine     | 3.299  | 42   | 315      | 0.179 | ng    | # 87     |
| 6) bis(2-Chloroethyl)ether    | 6.759  | 93   | 1064     | 0.214 | ng    | 99       |
| 9) Naphthalene                | 10.105 | 128  | 2744     | 0.197 | ng    | 96       |
| 10) Hexachlorobutadiene       | 10.404 | 225  | 646      | 0.158 | ng    | # 99     |
| 12) 2-Methylnaphthalene       | 11.737 | 142  | 1910     | 0.186 | ng    | 98       |
| 16) Acenaphthylene            | 13.678 | 152  | 3047     | 0.187 | ng    | 99       |
| 17) Acenaphthene              | 14.031 | 154  | 2064     | 0.194 | ng    | 99       |
| 18) Fluorene                  | 15.026 | 166  | 2949     | 0.188 | ng    | 99       |
| 20) 4,6-Dinitro-2-methylph... | 15.132 | 198  | 153      | 0.074 | ng    | # 53     |
| 21) 4-Bromophenyl-phenylether | 15.941 | 248  | 1081     | 0.171 | ng    | 96       |
| 22) Hexachlorobenzene         | 16.040 | 284  | 1318     | 0.201 | ng    | 98       |
| 23) Atrazine                  | 16.227 | 200  | 770      | 0.136 | ng    | 93       |
| 24) Pentachlorophenol         | 16.400 | 266  | 445      | 0.145 | ng    | # 84     |
| 25) Phenanthrene              | 16.773 | 178  | 5182     | 0.199 | ng    | 99       |
| 26) Anthracene                | 16.860 | 178  | 4571     | 0.191 | ng    | 100      |
| 28) Fluoranthene              | 18.817 | 202  | 6914     | 0.193 | ng    | 100      |
| 30) Pyrene                    | 19.184 | 202  | 7198     | 0.217 | ng    | 100      |
| 32) Benzo(a)anthracene        | 20.956 | 228  | 6691     | 0.193 | ng    | 99       |
| 33) Chrysene                  | 21.009 | 228  | 7234     | 0.211 | ng    | 99       |
| 34) Bis(2-ethylhexyl)phtha... | 20.938 | 149  | 2779     | 0.153 | ng    | # 99     |
| 36) Indeno(1,2,3-cd)pyrene    | 25.108 | 276  | 8305     | 0.187 | ng    | 100      |
| 37) Benzo(b)fluoranthene      | 22.456 | 252  | 7522     | 0.200 | ng    | # 94     |
| 38) Benzo(k)fluoranthene      | 22.456 | 252  | 7522     | 0.200 | ng    | 94       |
| 39) Benzo(a)pyrene            | 22.980 | 252  | 6450     | 0.195 | ng    | # 90     |
| 40) Dibenzo(a,h)anthracene    | 25.128 | 278  | 6620     | 0.188 | ng    | 96       |
| 41) Benzo(g,h,i)perylene      | 25.725 | 276  | 6908     | 0.184 | ng    | 99       |
| -----                         |        |      |          |       |       |          |

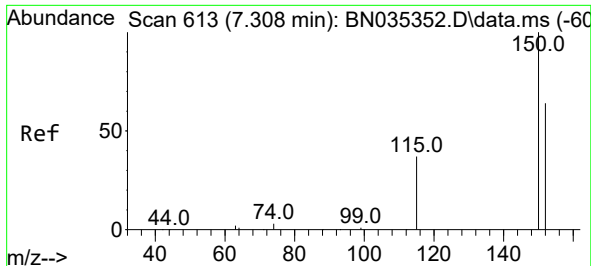
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Data File : BN035351.D  
Acq On : 27 Nov 2024 16:10  
Operator : RC/JU  
Sample : SSTDICC0.2  
Misc :  
ALS Vial : 3 Sample Multiplier: 1

Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC0.2

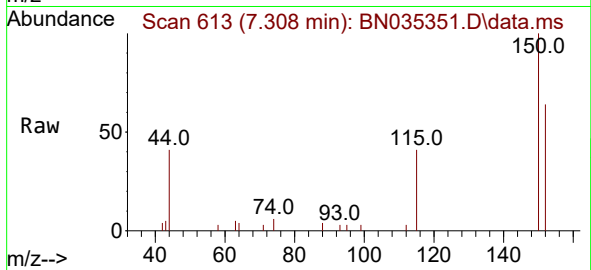
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QLast Update : Wed Nov 27 22:48:24 2024  
Response via : Initial Calibration





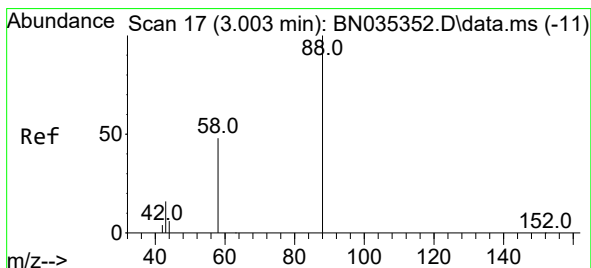
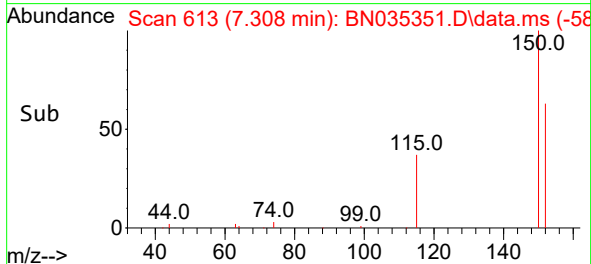
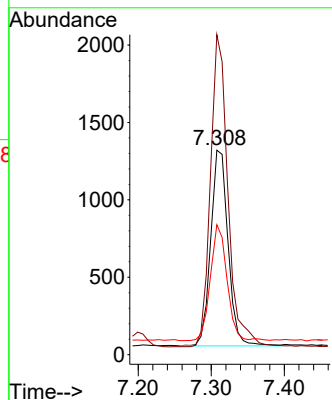
#1  
 1,4-Dichlorobenzene-d4  
 Concen: 0.400 ng  
 RT: 7.308 min Scan# 61  
 Delta R.T. -0.000 min  
 Lab File: BN035351.D  
 Acq: 27 Nov 2024 16:10

Instrument :  
 BNA\_N  
 ClientSampleId :  
 SSTDICC0.2



Tgt Ion:152 Resp: 2084

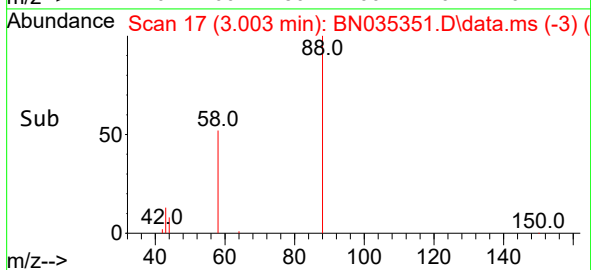
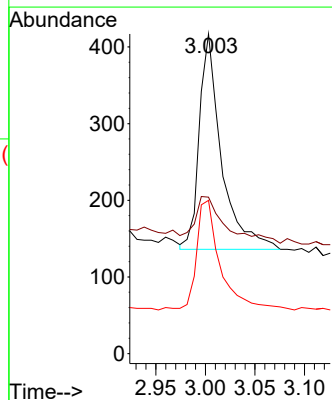
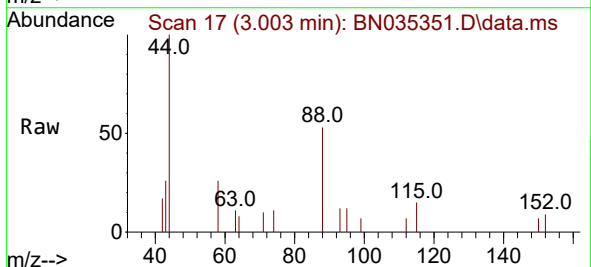
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 152 | 100   |       |       |
| 150 | 156.5 | 124.0 | 186.0 |
| 115 | 63.5  | 49.6  | 74.4  |

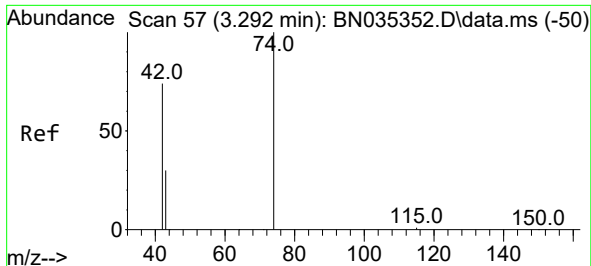


#2  
 1,4-Dioxane  
 Concen: 0.230 ng  
 RT: 3.003 min Scan# 17  
 Delta R.T. -0.000 min  
 Lab File: BN035351.D  
 Acq: 27 Nov 2024 16:10

Tgt Ion: 88 Resp: 435

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 88  | 100   |       |       |
| 43  | 29.9  | 17.2  | 25.8  |
| 58  | 55.2  | 44.5  | 66.7  |

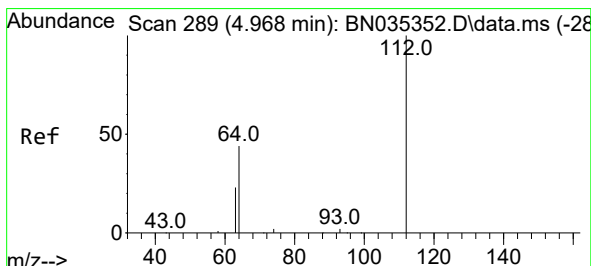
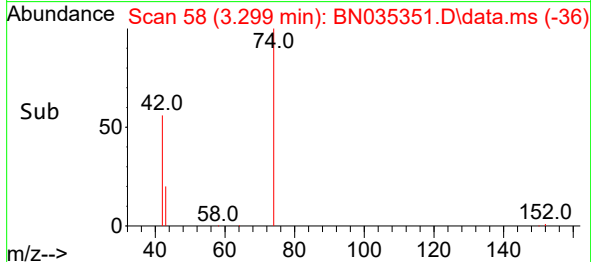
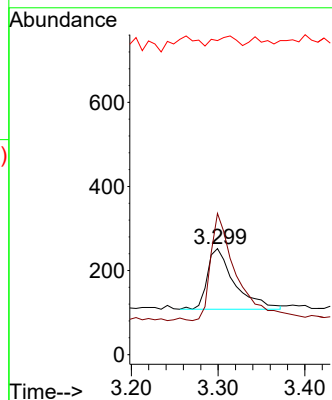
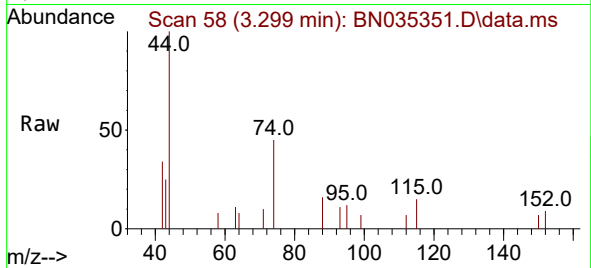




#3  
n-Nitrosodimethylamine  
Concen: 0.179 ng  
RT: 3.299 min Scan# 51  
Delta R.T. 0.007 min  
Lab File: BN035351.D  
Acq: 27 Nov 2024 16:10

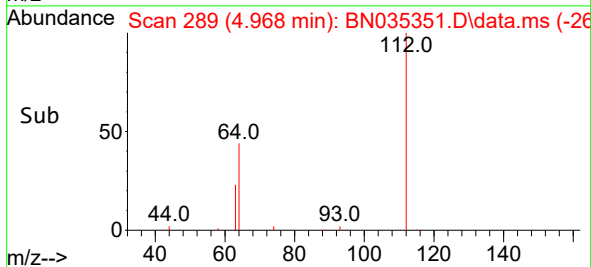
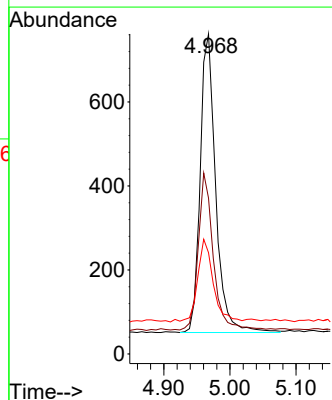
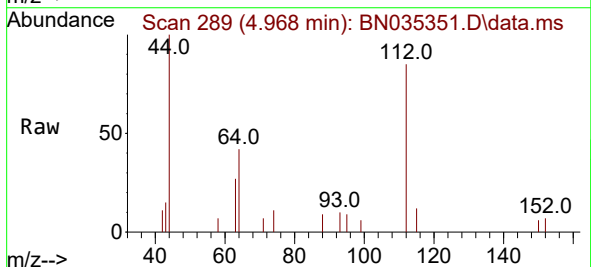
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC0.2

Tgt Ion: 42 Resp: 315  
Ion Ratio Lower Upper  
42 100  
74 172.4 124.9 187.3  
44 16.2 2.2 3.4#

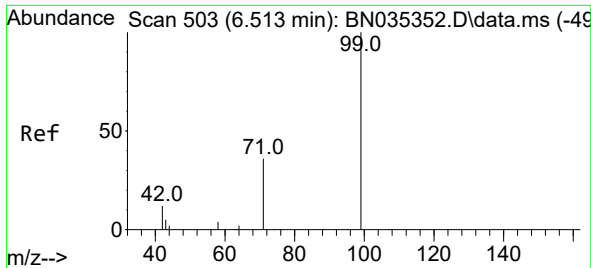


#4  
2-Fluorophenol  
Concen: 0.219 ng  
RT: 4.968 min Scan# 289  
Delta R.T. -0.000 min  
Lab File: BN035351.D  
Acq: 27 Nov 2024 16:10

Tgt Ion: 112 Resp: 1159  
Ion Ratio Lower Upper  
112 100  
64 51.2 39.8 59.8  
63 27.9 21.0 31.6



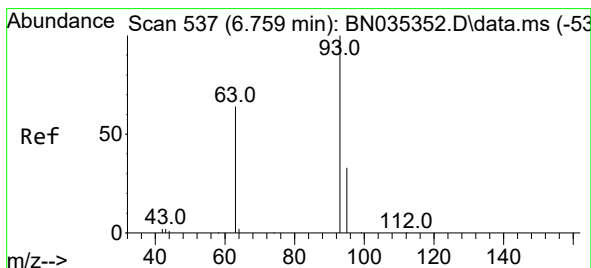
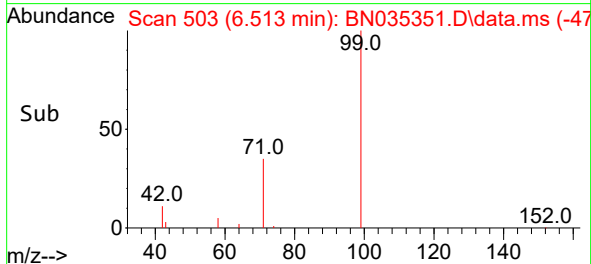
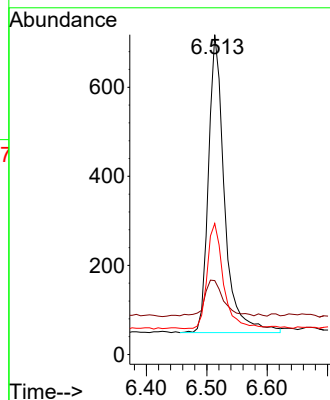
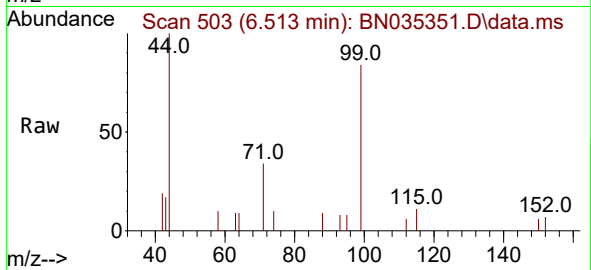




#5  
Phenol-d6  
Concen: 0.186 ng  
RT: 6.513 min Scan# 503  
Delta R.T. -0.000 min  
Lab File: BN035351.D  
Acq: 27 Nov 2024 16:10

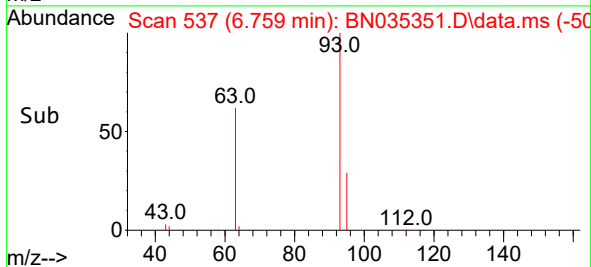
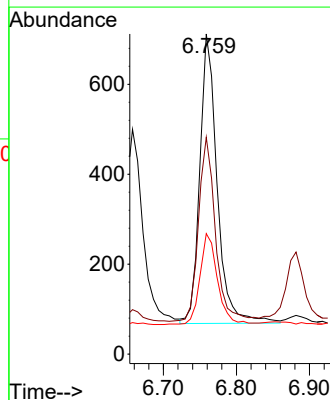
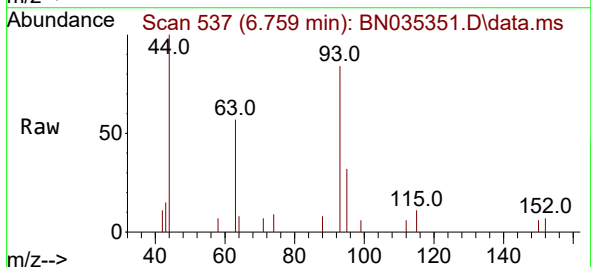
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC0.2

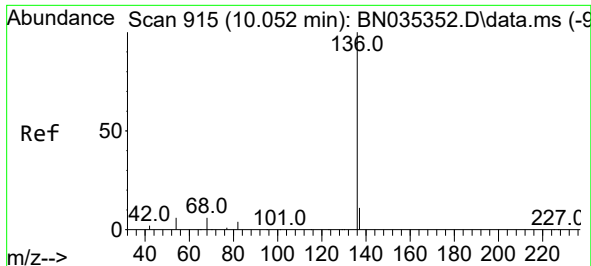
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 99    | Resp: | 1236  |
| Ion      | Ratio | Lower | Upper |
| 99       | 100   |       |       |
| 42       | 15.0  | 11.4  | 17.2  |
| 71       | 35.8  | 29.3  | 43.9  |



#6  
bis(2-Chloroethyl)ether  
Concen: 0.214 ng  
RT: 6.759 min Scan# 537  
Delta R.T. -0.000 min  
Lab File: BN035351.D  
Acq: 27 Nov 2024 16:10

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 93    | Resp: | 1064  |
| Ion      | Ratio | Lower | Upper |
| 93       | 100   |       |       |
| 63       | 62.2  | 50.4  | 75.6  |
| 95       | 31.6  | 25.7  | 38.5  |

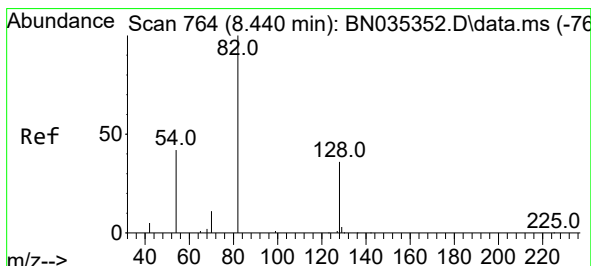
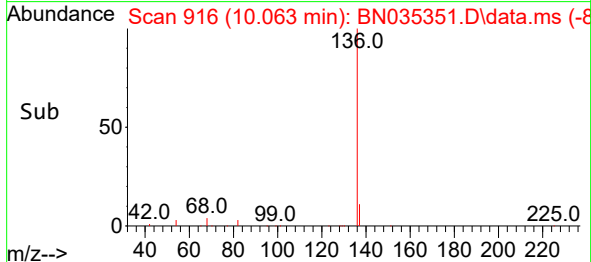
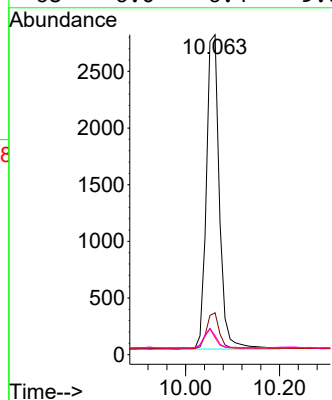
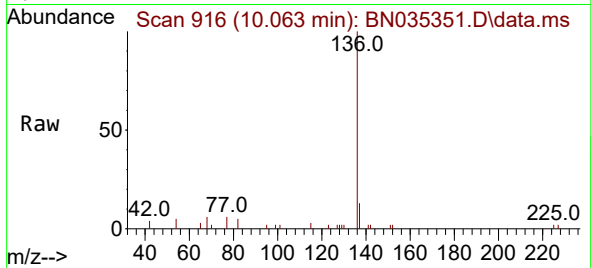




#7  
Naphthalene-d8  
Concen: 0.400 ng  
RT: 10.063 min Scan# 915  
Delta R.T. 0.011 min  
Lab File: BN035351.D  
Acq: 27 Nov 2024 16:10

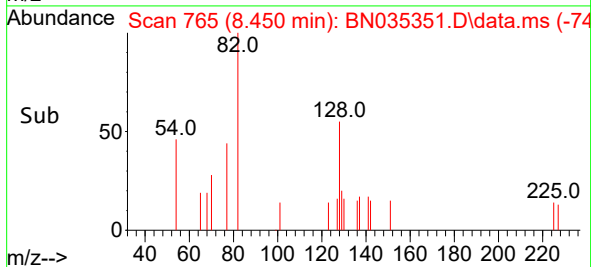
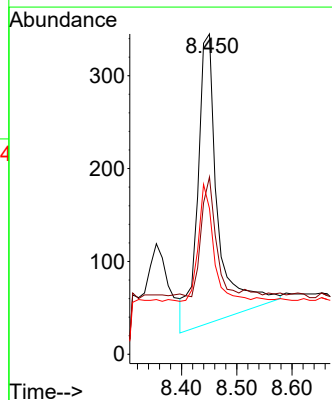
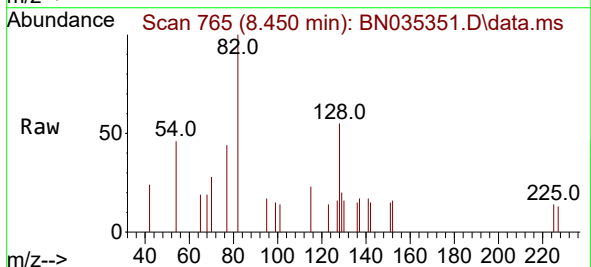
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC0.2

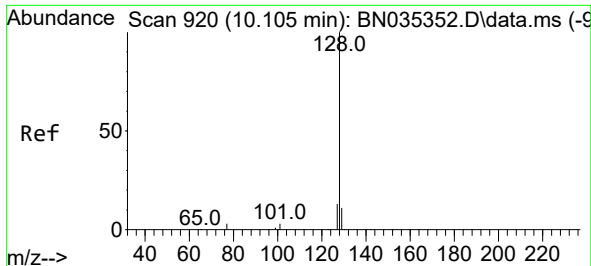
|           |       |       |      |
|-----------|-------|-------|------|
| Tgt Ion:  | 136   | Resp: | 5334 |
| Ion Ratio | Lower | Upper |      |
| 136       | 100   |       |      |
| 137       | 13.1  | 10.2  | 15.2 |
| 54        | 5.3   | 6.1   | 9.1# |
| 68        | 6.0   | 6.4   | 9.6# |



#8  
Nitrobenzene-d5  
Concen: 0.174 ng  
RT: 8.450 min Scan# 765  
Delta R.T. 0.011 min  
Lab File: BN035351.D  
Acq: 27 Nov 2024 16:10

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 82    | Resp: | 806   |
| Ion Ratio | Lower | Upper |       |
| 82        | 100   |       |       |
| 128       | 55.4  | 33.4  | 50.0# |
| 54        | 45.5  | 36.7  | 55.1  |

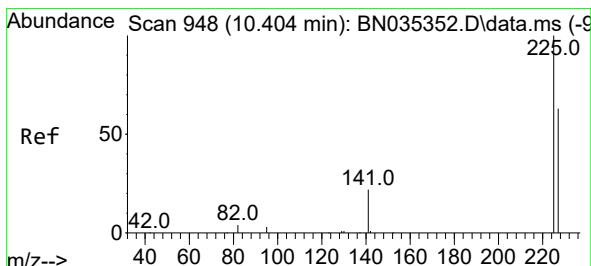
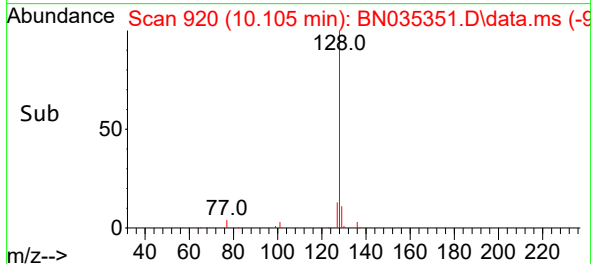
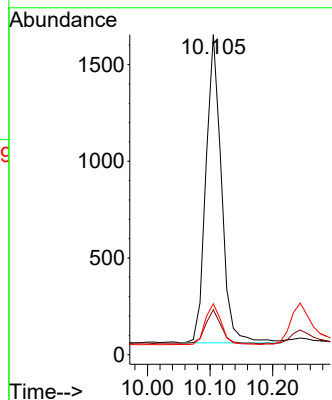
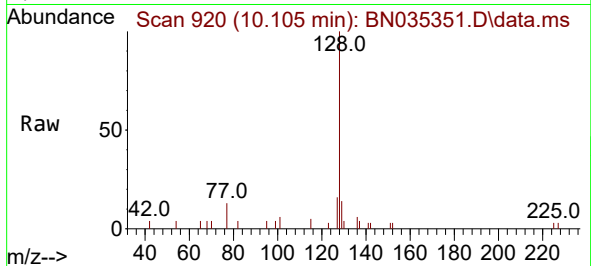




#9  
Naphthalene  
Concen: 0.197 ng  
RT: 10.105 min Scan# 91  
Delta R.T. -0.000 min  
Lab File: BN035351.D  
Acq: 27 Nov 2024 16:10

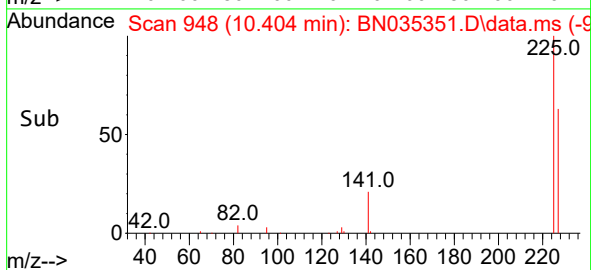
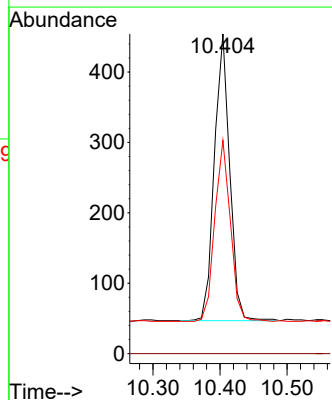
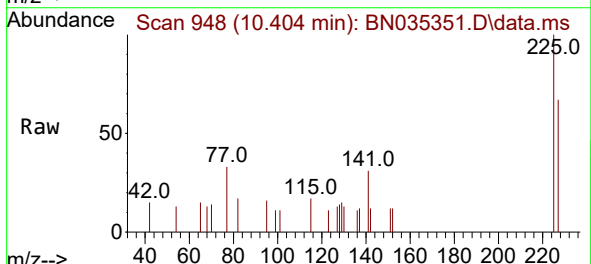
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BNA\_N  
ClientSampleId :  
SSTDICC0.2

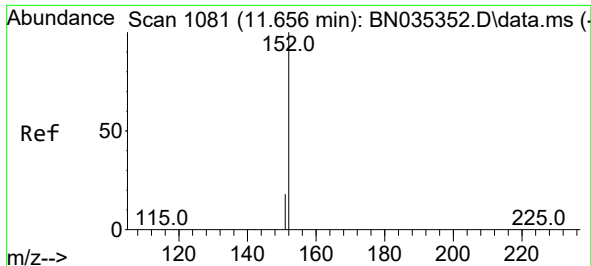
Tgt Ion:128 Resp: 2744  
Ion Ratio Lower Upper  
128 100  
129 14.0 9.8 14.6  
127 15.9 11.4 17.2



#10  
Hexachlorobutadiene  
Concen: 0.158 ng  
RT: 10.404 min Scan# 948  
Delta R.T. -0.000 min  
Lab File: BN035351.D  
Acq: 27 Nov 2024 16:10

Tgt Ion:225 Resp: 646  
Ion Ratio Lower Upper  
225 100  
223 0.0 0.0 0.0  
227 64.7 51.3 76.9





#11

2-Methylnaphthalene-d10

Concen: 0.169 ng

RT: 11.661 min Scan# 1082

Delta R.T. 0.005 min

Lab File: BN035351.D

Acq: 27 Nov 2024 16:10

Instrument :

BNA\_N

ClientSampleId :

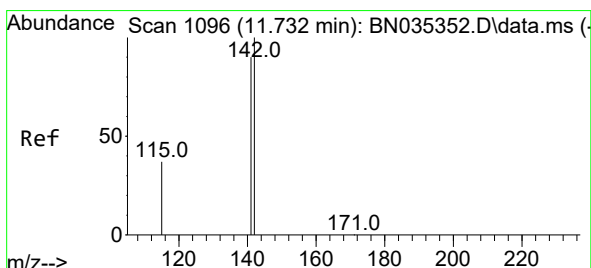
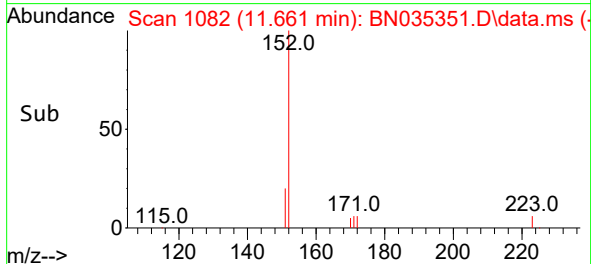
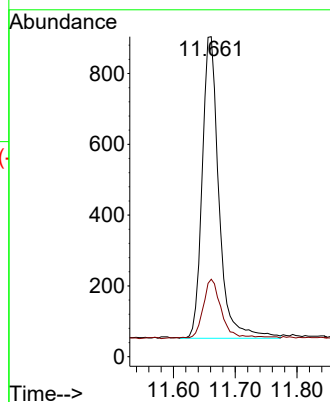
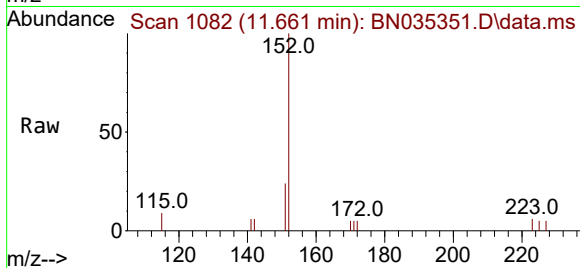
SSTDICC0.2

Tgt Ion:152 Resp: 1608

Ion Ratio Lower Upper

152 100

151 22.3 16.6 25.0



#12

2-Methylnaphthalene

Concen: 0.186 ng

RT: 11.737 min Scan# 1097

Delta R.T. 0.005 min

Lab File: BN035351.D

Acq: 27 Nov 2024 16:10

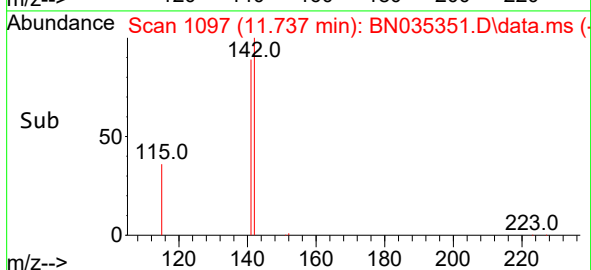
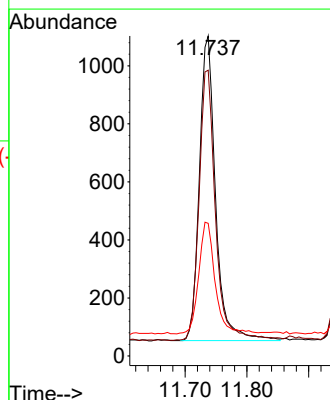
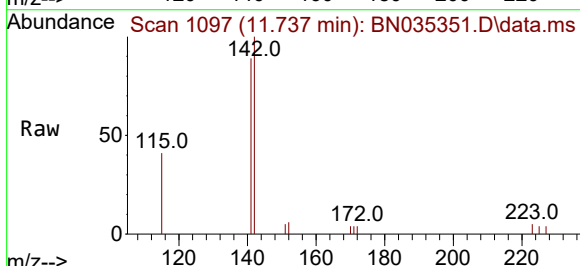
Tgt Ion:142 Resp: 1910

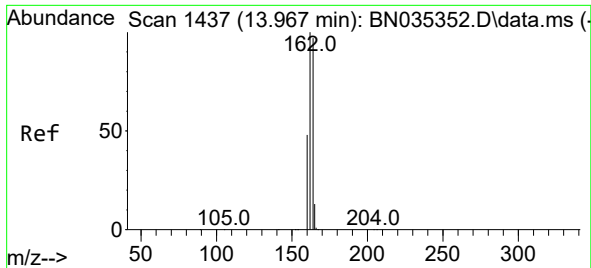
Ion Ratio Lower Upper

142 100

141 89.3 72.2 108.4

115 41.4 31.4 47.0

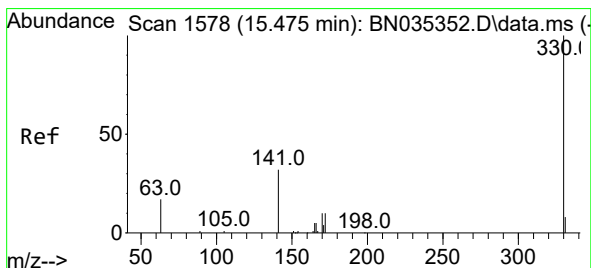
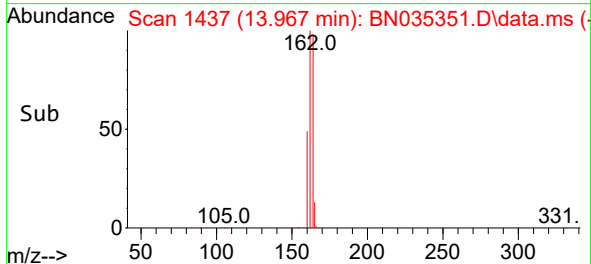
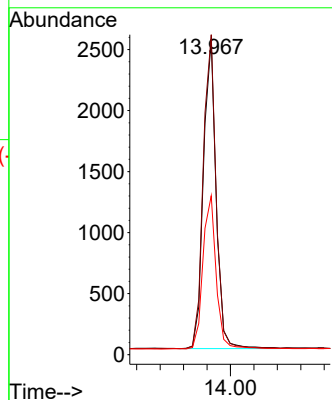
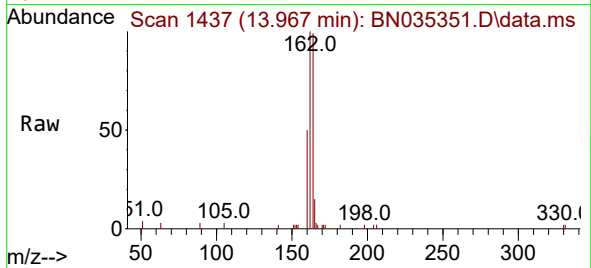




#13  
Acenaphthene-d10  
Concen: 0.400 ng  
RT: 13.967 min Scan# 14  
Delta R.T. -0.000 min  
Lab File: BN035351.D  
Acq: 27 Nov 2024 16:10

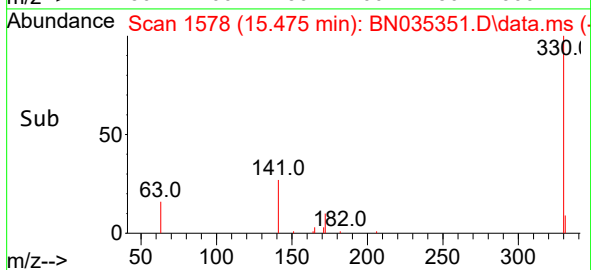
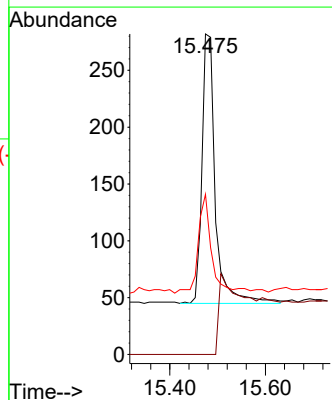
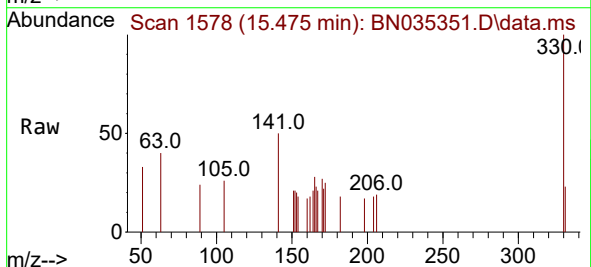
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BNA\_N  
ClientSampleId :  
SSTDICC0.2

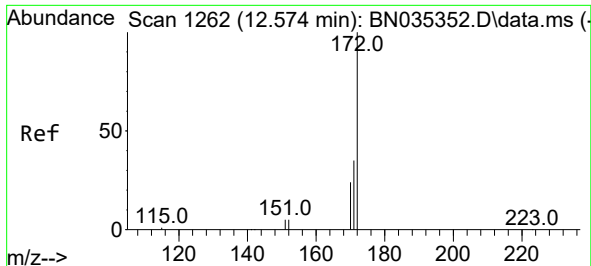
Tgt Ion:164 Resp: 3808  
Ion Ratio Lower Upper  
164 100  
162 101.5 82.2 123.2  
160 50.4 40.1 60.1



#14  
2,4,6-Tribromophenol  
Concen: 0.179 ng  
RT: 15.475 min Scan# 1578  
Delta R.T. -0.000 min  
Lab File: BN035351.D  
Acq: 27 Nov 2024 16:10

Tgt Ion:330 Resp: 492  
Ion Ratio Lower Upper  
330 100  
332 0.0 0.0 0.0  
141 37.2 26.6 40.0

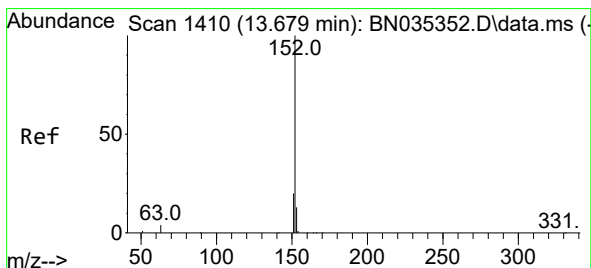
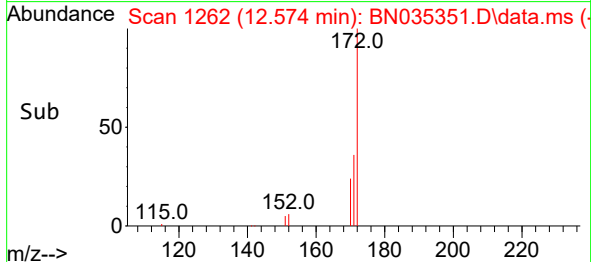
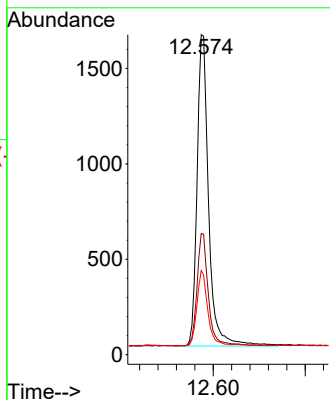
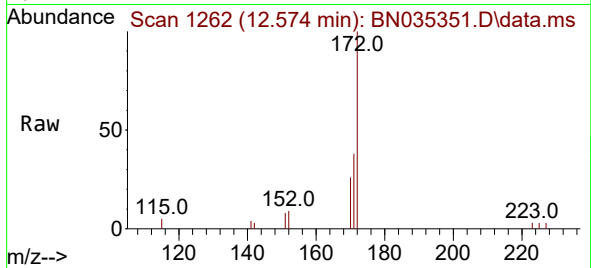




#15  
2-Fluorobiphenyl  
Concen: 0.184 ng  
RT: 12.574 min Scan# 1262  
Delta R.T. -0.000 min  
Lab File: BN035351.D  
Acq: 27 Nov 2024 16:10

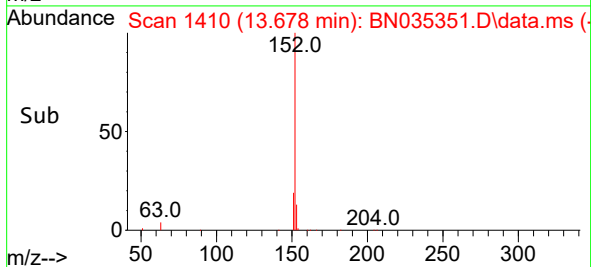
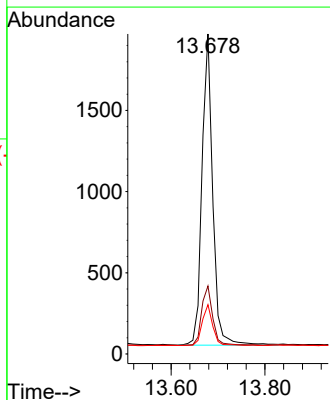
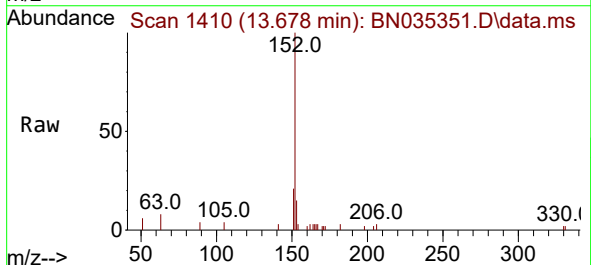
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC0.2

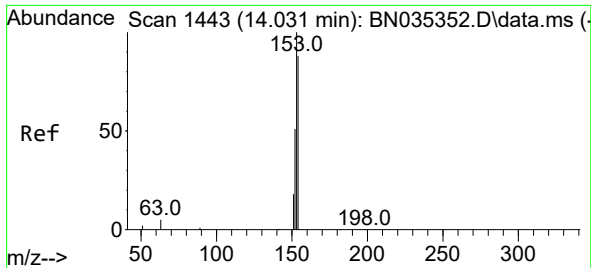
Tgt Ion:172 Resp: 2838  
Ion Ratio Lower Upper  
172 100  
171 37.9 29.0 43.4  
170 26.3 19.8 29.8



#16  
Acenaphthylene  
Concen: 0.187 ng  
RT: 13.678 min Scan# 1410  
Delta R.T. -0.000 min  
Lab File: BN035351.D  
Acq: 27 Nov 2024 16:10

Tgt Ion:152 Resp: 3047  
Ion Ratio Lower Upper  
152 100  
151 19.8 16.2 24.2  
153 12.9 10.4 15.6

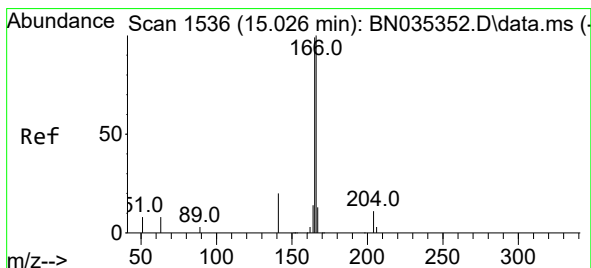
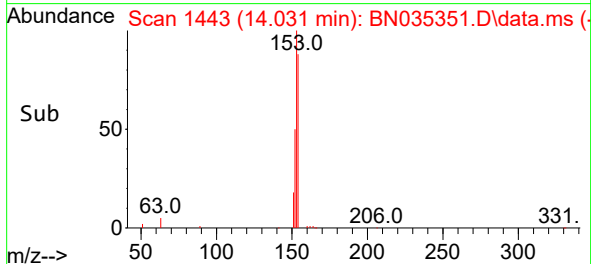
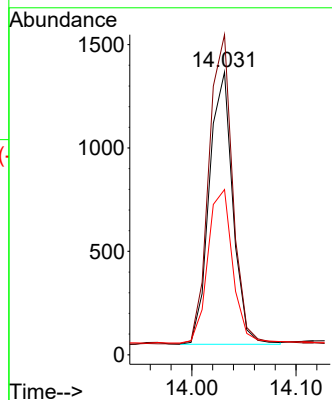
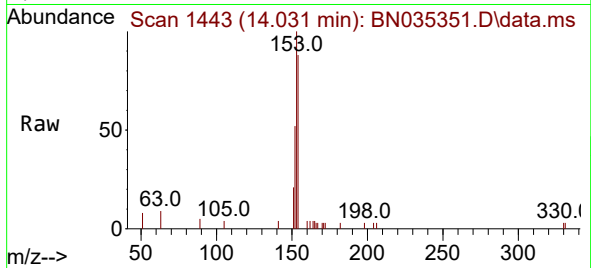




#17  
Acenaphthene  
Concen: 0.194 ng  
RT: 14.031 min Scan# 1443  
Delta R.T. -0.000 min  
Lab File: BN035351.D  
Acq: 27 Nov 2024 16:10

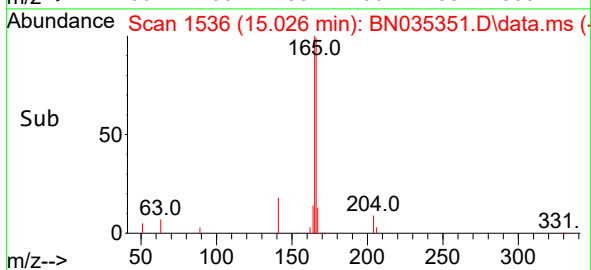
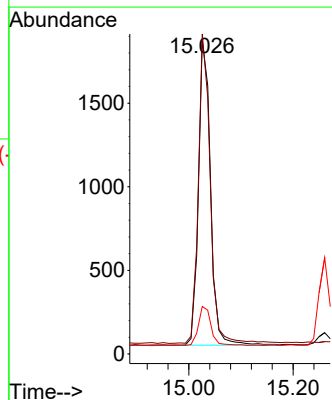
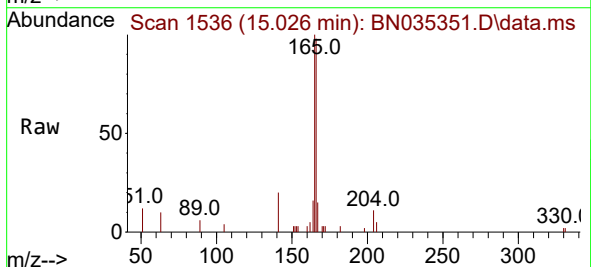
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC0.2

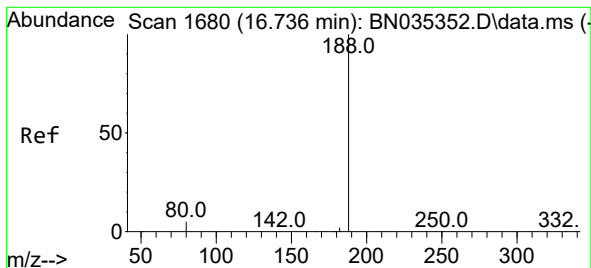
Tgt Ion:154 Resp: 2064  
Ion Ratio Lower Upper  
154 100  
153 115.2 92.6 139.0  
152 60.7 49.0 73.6



#18  
Fluorene  
Concen: 0.188 ng  
RT: 15.026 min Scan# 1536  
Delta R.T. -0.000 min  
Lab File: BN035351.D  
Acq: 27 Nov 2024 16:10

Tgt Ion:166 Resp: 2949  
Ion Ratio Lower Upper  
166 100  
165 99.1 79.7 119.5  
167 14.1 10.8 16.2





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 16.735 min Scan# 1

Delta R.T. -0.000 min

Lab File: BN035351.D

Acq: 27 Nov 2024 16:10

Instrument :

BNA\_N

ClientSampleId :

SSTDICC0.2

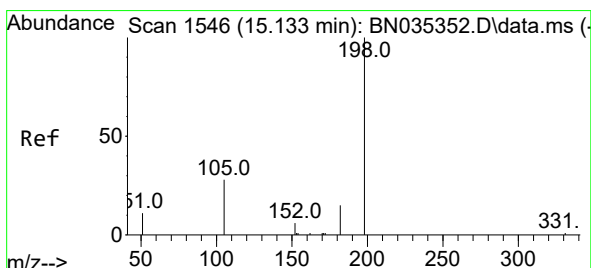
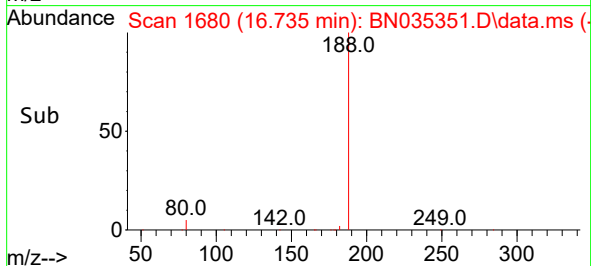
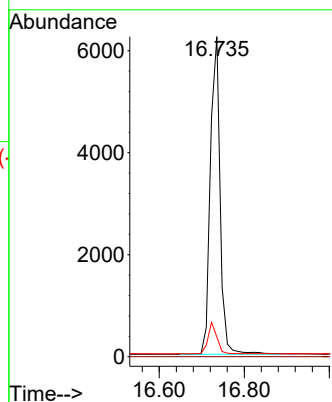
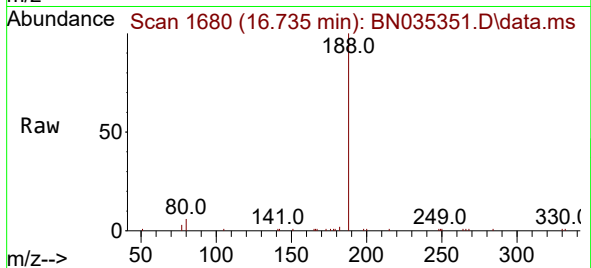
Tgt Ion:188 Resp: 9904

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 6.2 4.6 6.8



#20

4,6-Dinitro-2-methylphenol

Concen: 0.074 ng

RT: 15.132 min Scan# 1546

Delta R.T. -0.000 min

Lab File: BN035351.D

Acq: 27 Nov 2024 16:10

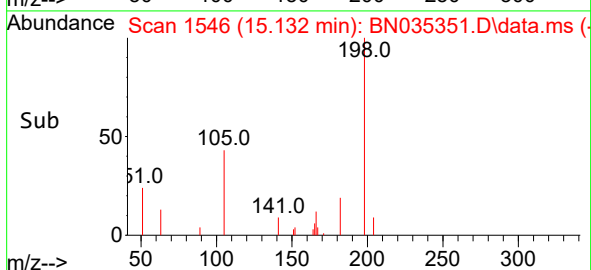
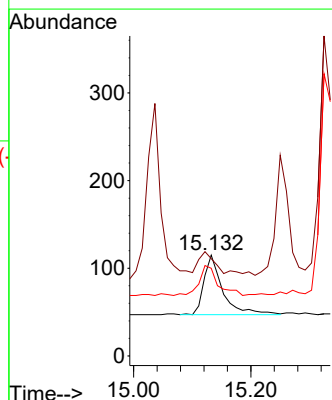
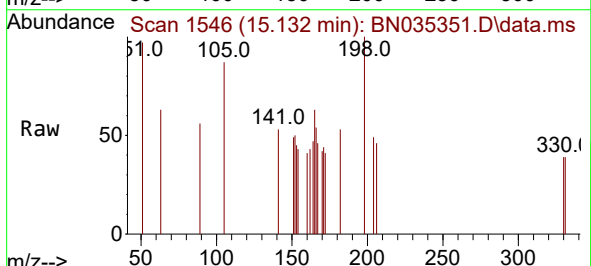
Tgt Ion:198 Resp: 153

Ion Ratio Lower Upper

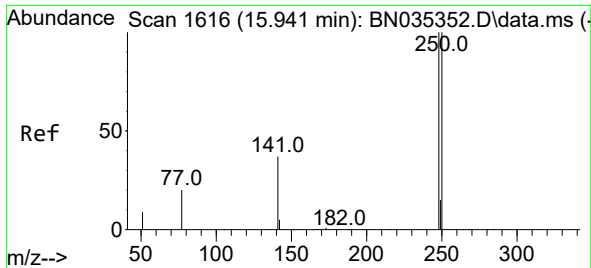
198 100

51 96.5 46.5 69.7#

105 87.0 45.3 67.9#



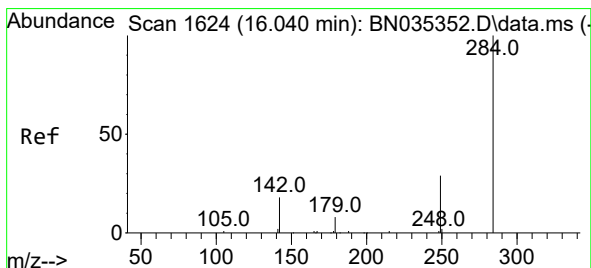
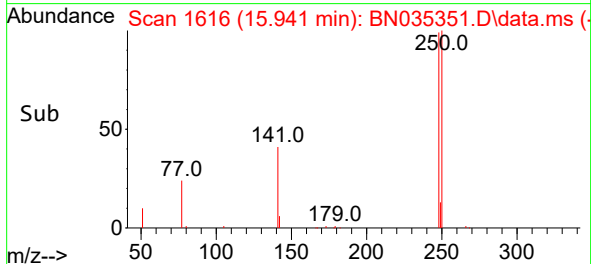
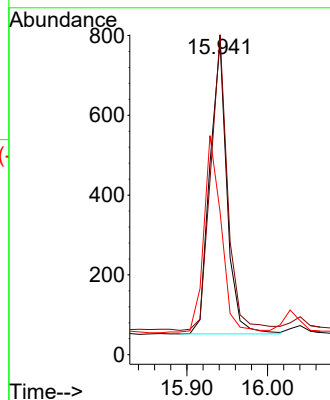
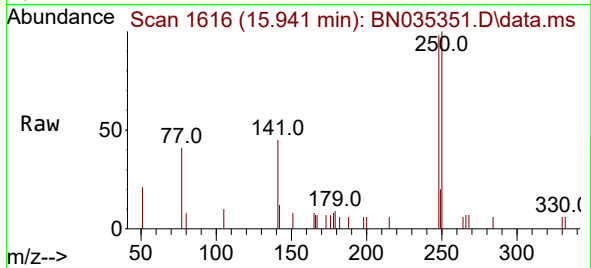




#21  
4-Bromophenyl-phenylether  
Concen: 0.171 ng  
RT: 15.941 min Scan# 1616  
Delta R.T. -0.000 min  
Lab File: BN035351.D  
Acq: 27 Nov 2024 16:10

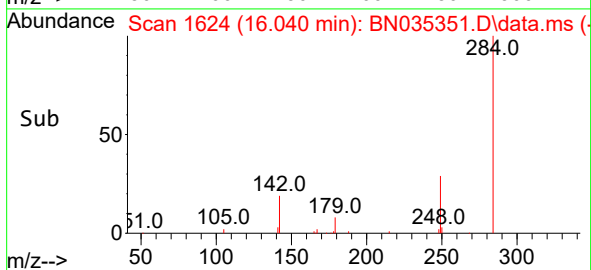
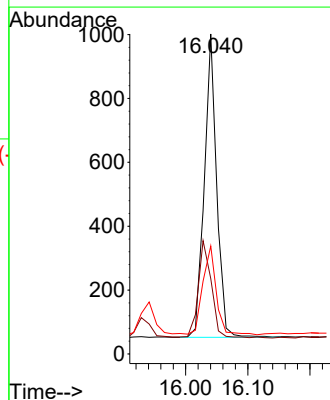
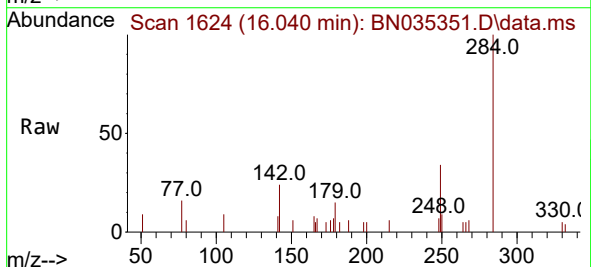
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC0.2

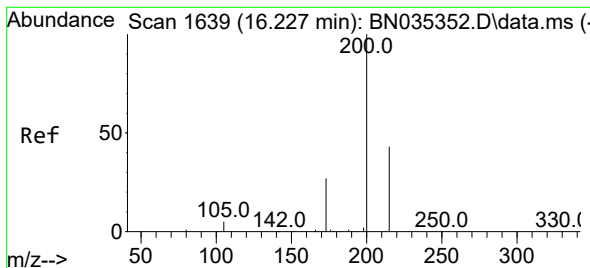
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 248   | Resp: | 1081  |
| Ion      | Ratio | Lower | Upper |
| 248      | 100   |       |       |
| 250      | 102.3 | 80.6  | 120.8 |
| 141      | 45.7  | 31.5  | 47.3  |



#22  
Hexachlorobenzene  
Concen: 0.201 ng  
RT: 16.040 min Scan# 1624  
Delta R.T. -0.000 min  
Lab File: BN035351.D  
Acq: 27 Nov 2024 16:10

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 284   | Resp: | 1318  |
| Ion      | Ratio | Lower | Upper |
| 284      | 100   |       |       |
| 142      | 34.2  | 26.7  | 40.1  |
| 249      | 32.0  | 24.6  | 36.8  |





#23

Atrazine

Concen: 0.136 ng

RT: 16.227 min Scan# 1639

Delta R.T. -0.000 min

Lab File: BN035351.D

Acq: 27 Nov 2024 16:10

Instrument :

BNA\_N

ClientSampleId :

SSTDICC0.2

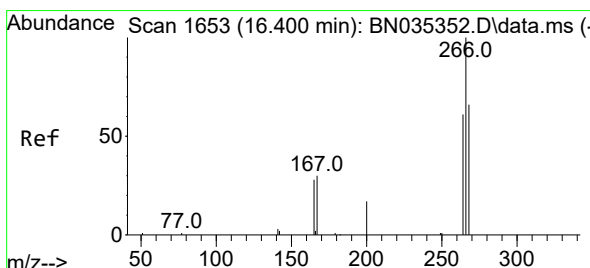
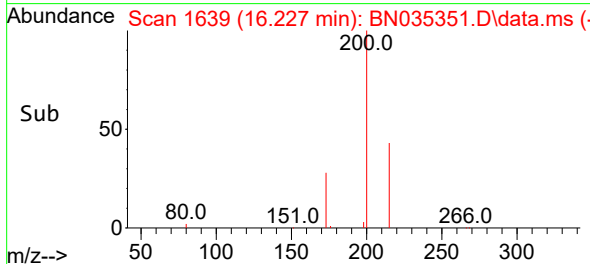
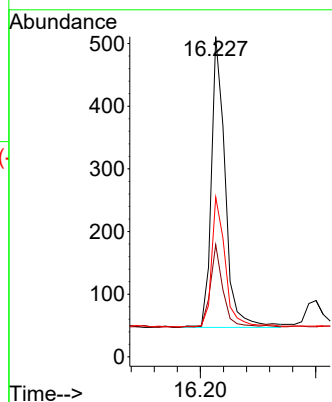
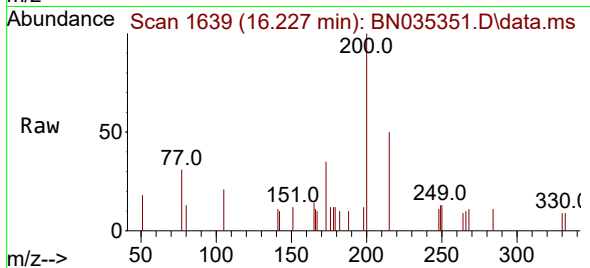
Tgt Ion:200 Resp: 770

Ion Ratio Lower Upper

200 100

173 35.0 24.1 36.1

215 49.9 36.9 55.3



#24

Pentachlorophenol

Concen: 0.145 ng

RT: 16.400 min Scan# 1653

Delta R.T. -0.000 min

Lab File: BN035351.D

Acq: 27 Nov 2024 16:10

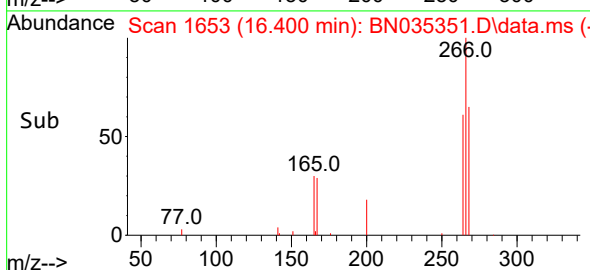
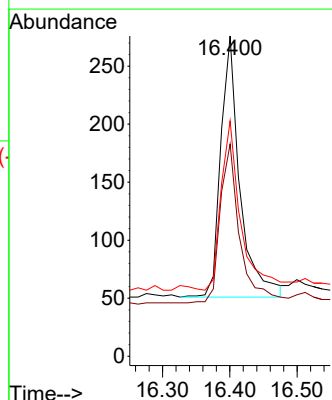
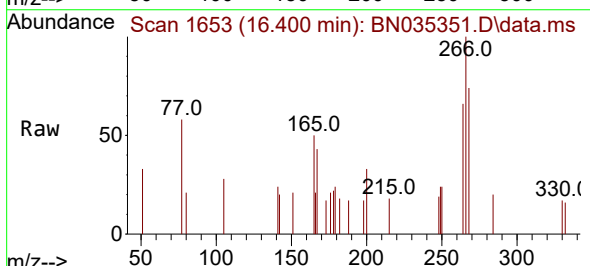
Tgt Ion:266 Resp: 445

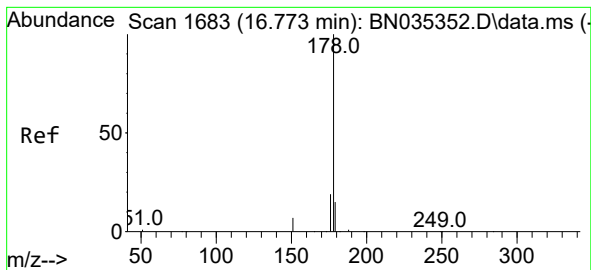
Ion Ratio Lower Upper

266 100

264 62.7 42.3 63.5

268 67.2 43.3 64.9#





#25

Phenanthrene

Concen: 0.199 ng

RT: 16.773 min Scan# 1683

Delta R.T. -0.000 min

Lab File: BN035351.D

Acq: 27 Nov 2024 16:10

Instrument :

BNA\_N

ClientSampleId :

SSTDICC0.2

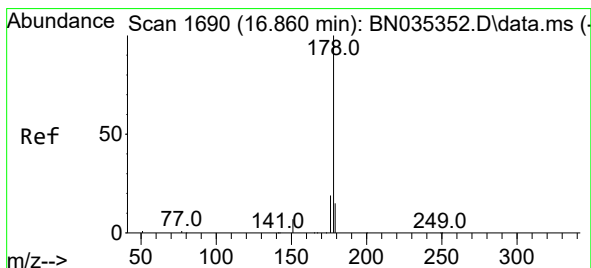
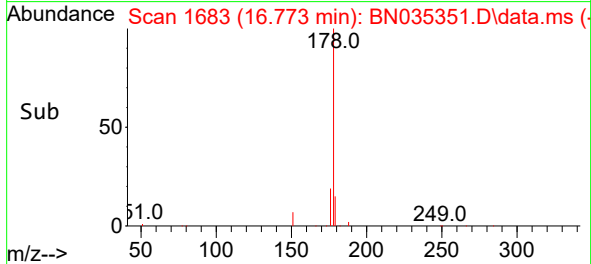
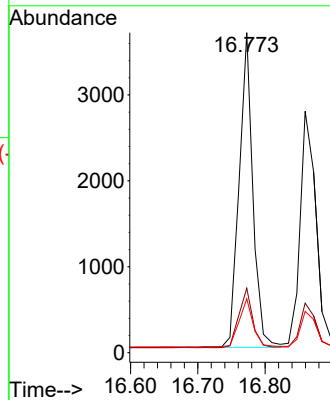
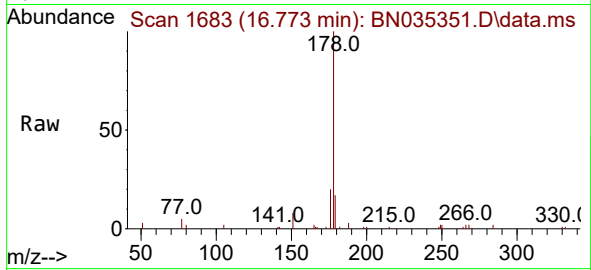
Tgt Ion:178 Resp: 5182

Ion Ratio Lower Upper

178 100

176 18.9 15.4 23.2

179 15.9 12.3 18.5



#26

Anthracene

Concen: 0.191 ng

RT: 16.860 min Scan# 1690

Delta R.T. -0.000 min

Lab File: BN035351.D

Acq: 27 Nov 2024 16:10

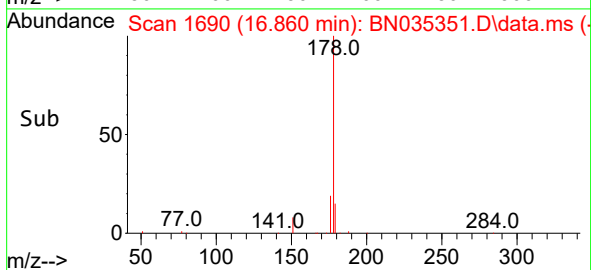
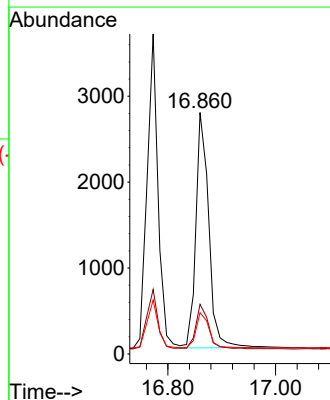
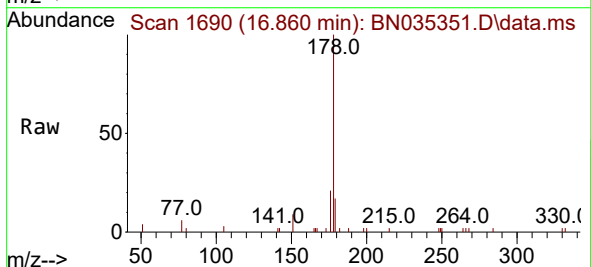
Tgt Ion:178 Resp: 4571

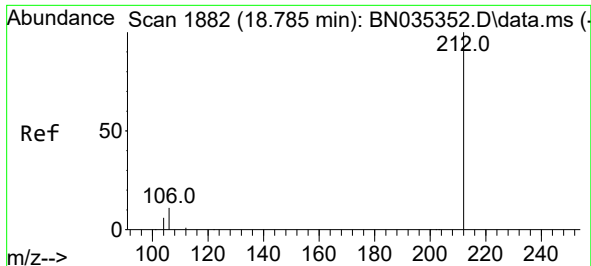
Ion Ratio Lower Upper

178 100

176 18.7 15.0 22.6

179 15.4 12.6 18.8

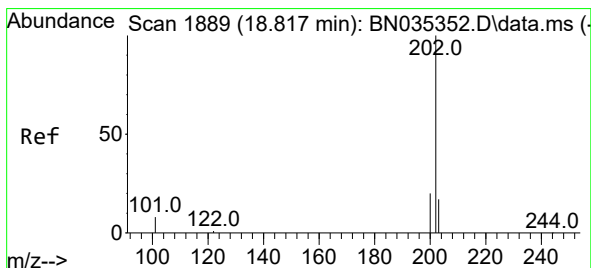
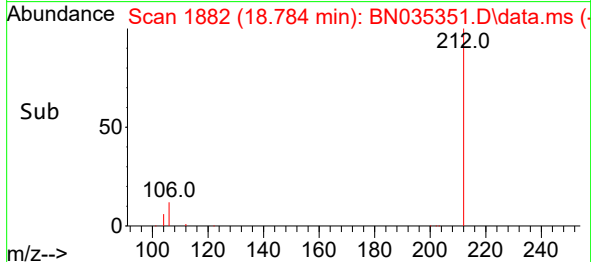
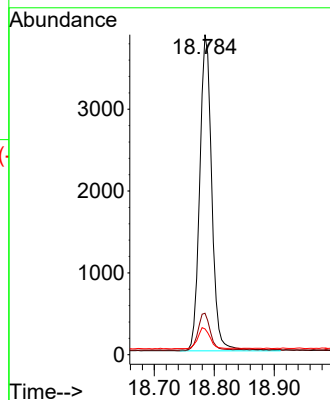
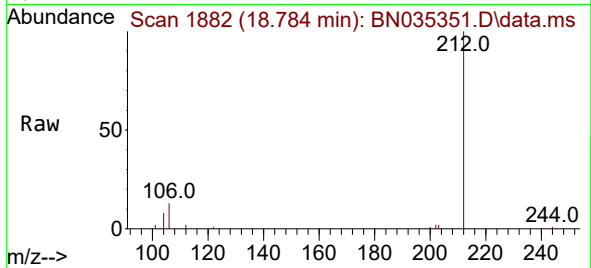




#27  
Fluoranthene-d10  
Concen: 0.177 ng  
RT: 18.784 min Scan# 1882  
Delta R.T. -0.000 min  
Lab File: BN035351.D  
Acq: 27 Nov 2024 16:10

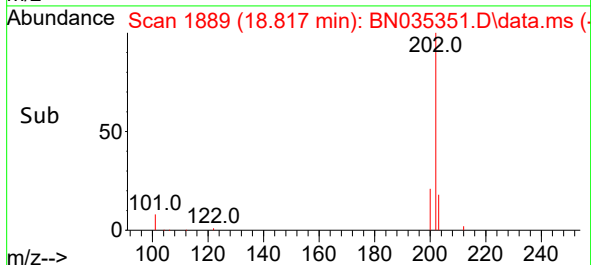
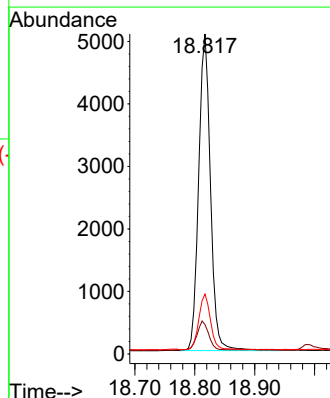
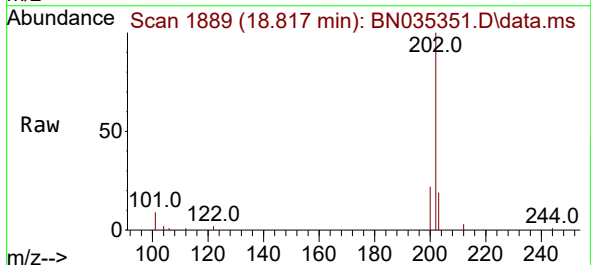
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC0.2

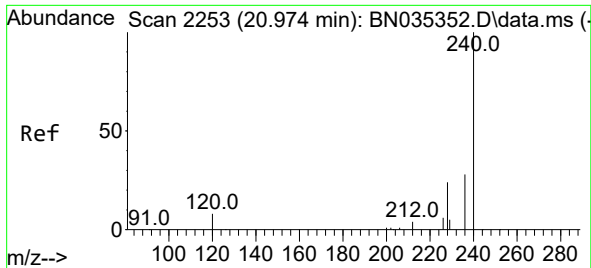
Tgt Ion:212 Resp: 5379  
Ion Ratio Lower Upper  
212 100  
106 11.8 9.2 13.8  
104 6.9 5.3 7.9



#28  
Fluoranthene  
Concen: 0.193 ng  
RT: 18.817 min Scan# 1889  
Delta R.T. -0.000 min  
Lab File: BN035351.D  
Acq: 27 Nov 2024 16:10

Tgt Ion:202 Resp: 6914  
Ion Ratio Lower Upper  
202 100  
101 9.3 7.4 11.0  
203 17.3 13.7 20.5

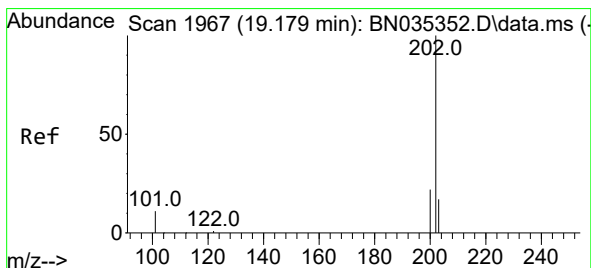
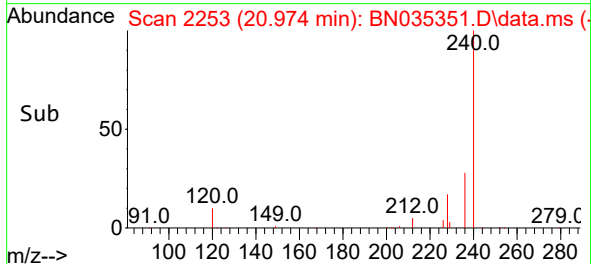
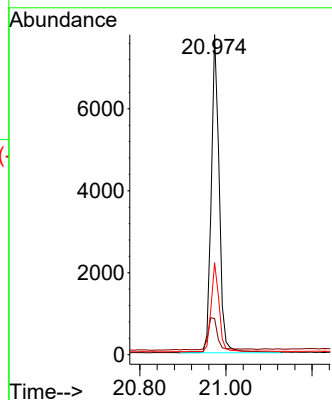
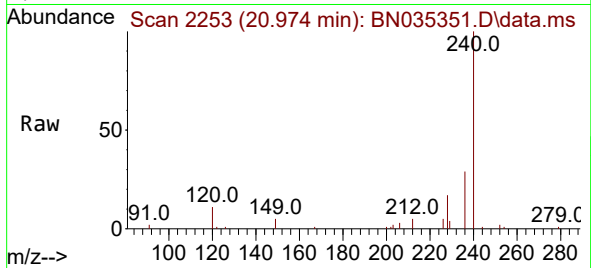




#29  
Chrysene-d12  
Concen: 0.400 ng  
RT: 20.974 min Scan# 21  
Delta R.T. -0.000 min  
Lab File: BN035351.D  
Acq: 27 Nov 2024 16:10

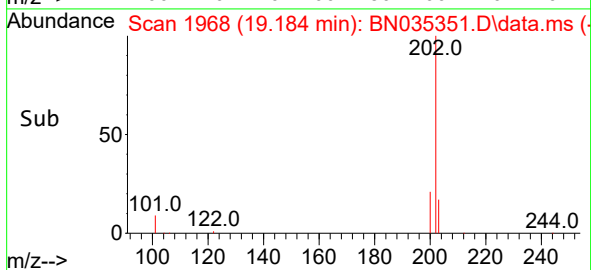
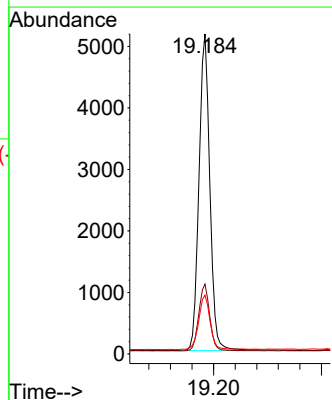
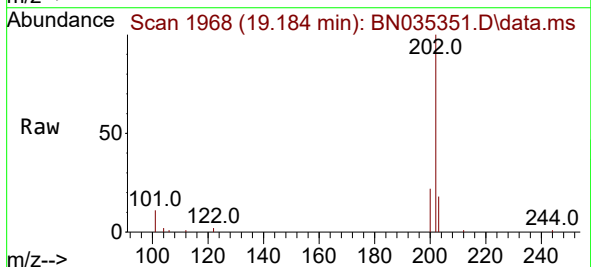
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC0.2

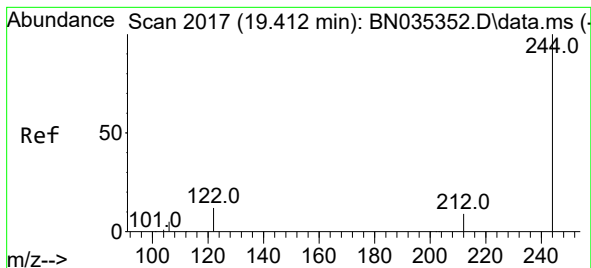
Tgt Ion:240 Resp: 9963  
Ion Ratio Lower Upper  
240 100  
120 11.3 7.9 11.9  
236 28.8 22.9 34.3



#30  
Pyrene  
Concen: 0.217 ng  
RT: 19.184 min Scan# 1968  
Delta R.T. 0.005 min  
Lab File: BN035351.D  
Acq: 27 Nov 2024 16:10

Tgt Ion:202 Resp: 7198  
Ion Ratio Lower Upper  
202 100  
200 21.3 17.0 25.4  
203 18.0 14.3 21.5





#31

Terphenyl-d14

Concen: 0.185 ng

RT: 19.416 min Scan# 2017

Delta R.T. 0.005 min

Lab File: BN035351.D

Acq: 27 Nov 2024 16:10

Instrument :

BNA\_N

ClientSampleId :

SSTDICC0.2

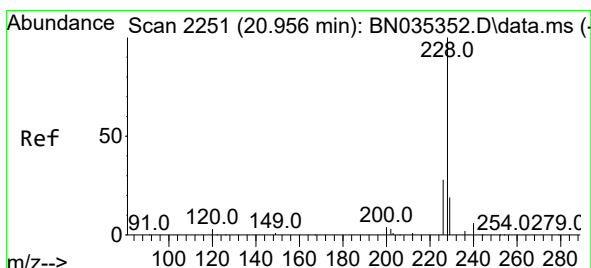
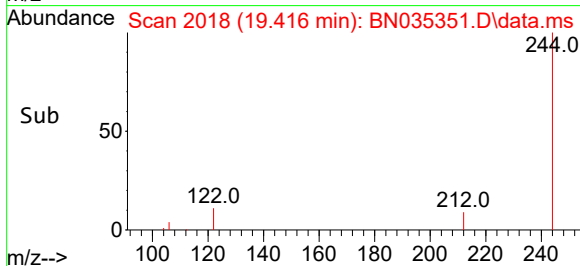
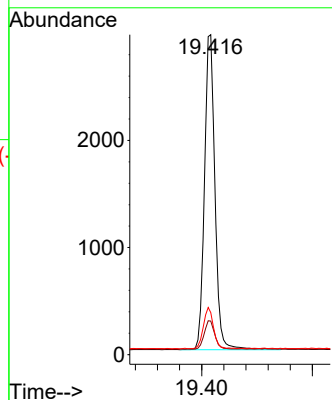
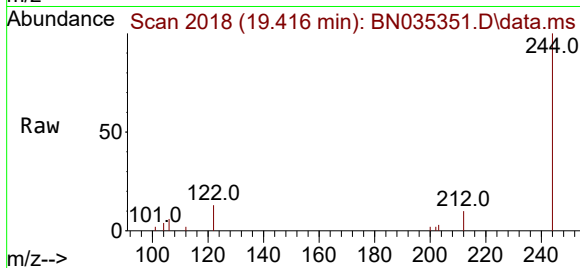
Tgt Ion:244 Resp: 3871

Ion Ratio Lower Upper

244 100

212 10.5 8.1 12.1

122 13.1 10.3 15.5



#32

Benzo(a)anthracene

Concen: 0.193 ng

RT: 20.956 min Scan# 2251

Delta R.T. -0.000 min

Lab File: BN035351.D

Acq: 27 Nov 2024 16:10

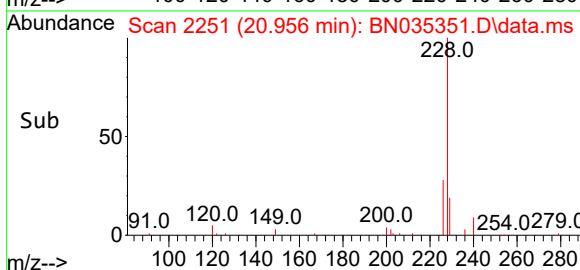
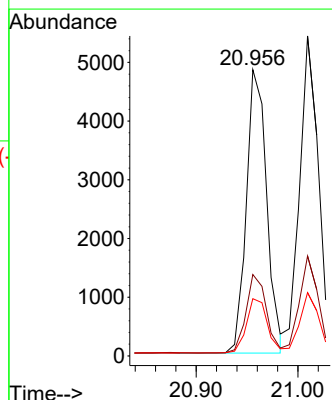
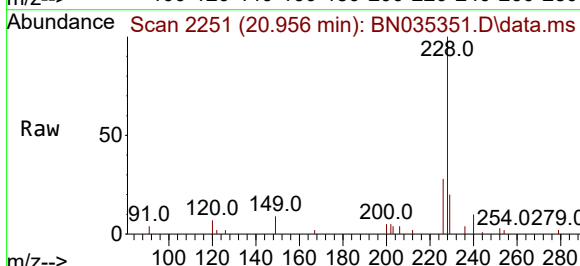
Tgt Ion:228 Resp: 6691

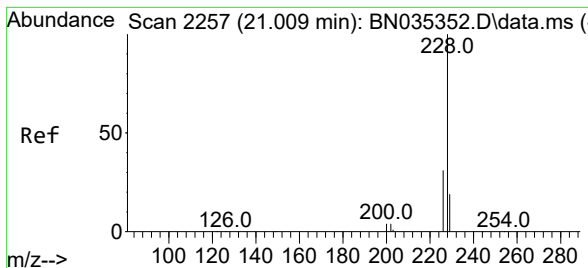
Ion Ratio Lower Upper

228 100

226 28.4 22.5 33.7

229 20.0 15.8 23.8





#33

Chrysene

Concen: 0.211 ng

RT: 21.009 min Scan# 21

Delta R.T. -0.000 min

Lab File: BN035351.D

Acq: 27 Nov 2024 16:10

Instrument :

BNA\_N

ClientSampleId :

SSTDICC0.2

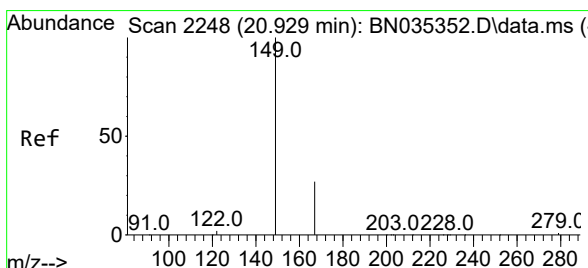
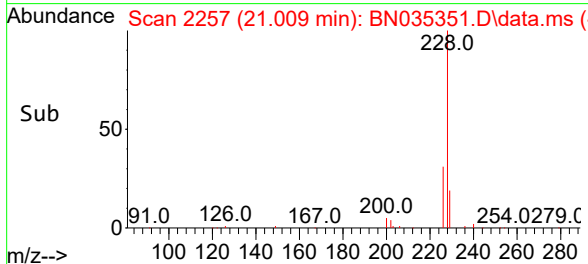
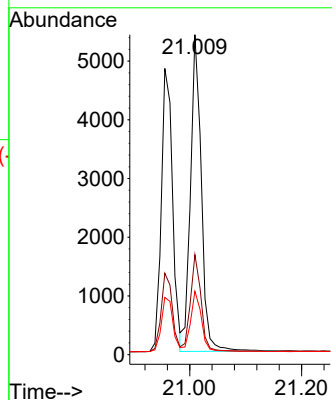
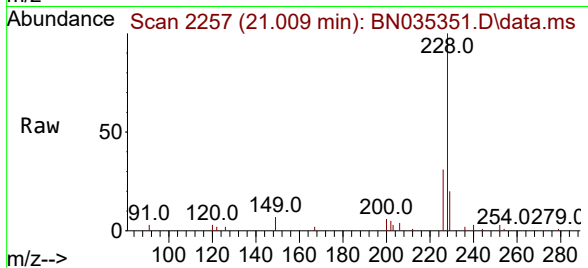
Tgt Ion:228 Resp: 7234

Ion Ratio Lower Upper

228 100

226 31.2 24.6 37.0

229 19.8 15.9 23.9



#34

Bis(2-ethylhexyl)phthalate

Concen: 0.153 ng

RT: 20.938 min Scan# 2249

Delta R.T. 0.009 min

Lab File: BN035351.D

Acq: 27 Nov 2024 16:10

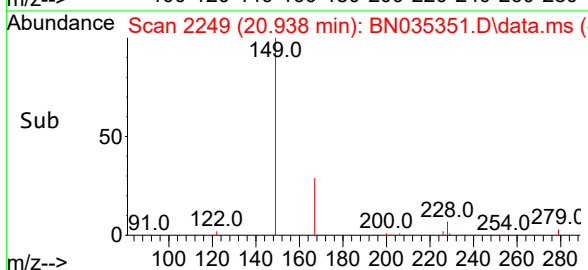
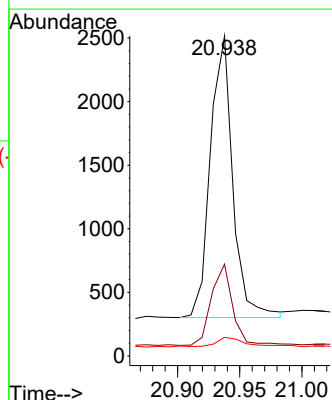
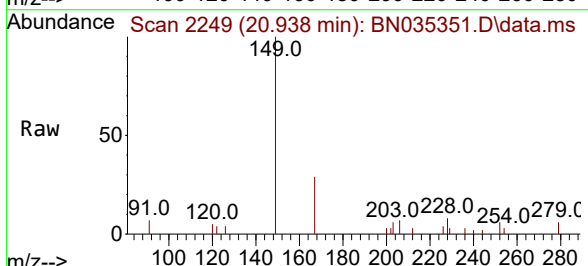
Tgt Ion:149 Resp: 2779

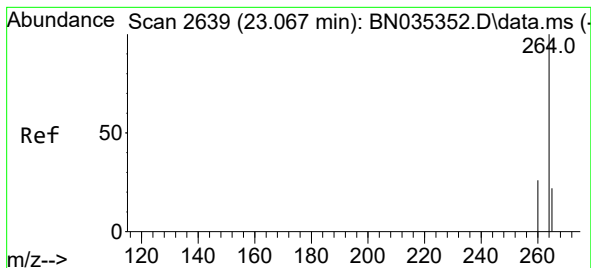
Ion Ratio Lower Upper

149 100

167 27.5 22.2 33.4

279 4.8 2.7 4.1#





#35

Perylene-d12

Concen: 0.400 ng

RT: 23.070 min Scan# 2

Delta R.T. 0.003 min

Lab File: BN035351.D

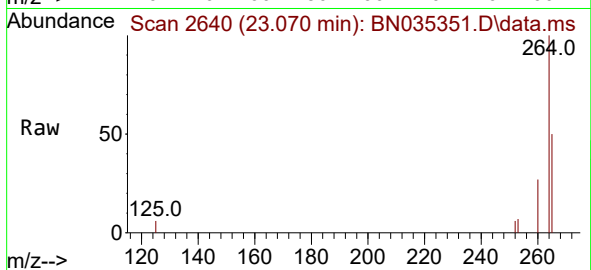
Acq: 27 Nov 2024 16:10

Instrument :

BNA\_N

ClientSampleId :

SSTDICC0.2



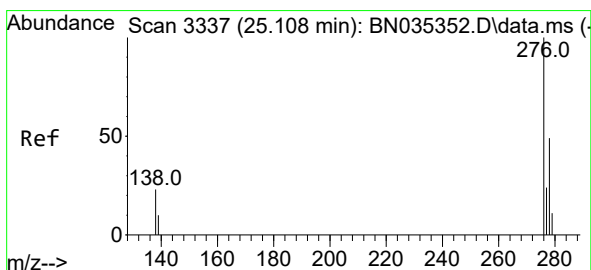
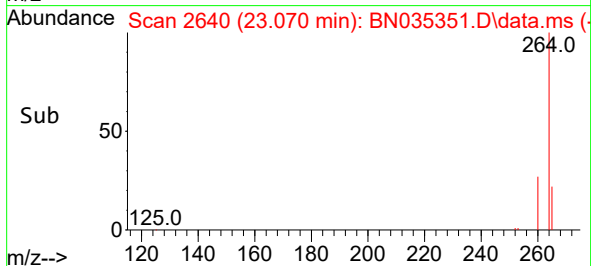
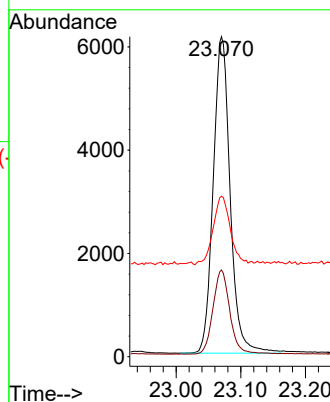
Tgt Ion:264 Resp: 11158

Ion Ratio Lower Upper

264 100

260 27.1 21.4 32.2

265 50.2 40.2 60.4



#36

Indeno(1,2,3-cd)pyrene

Concen: 0.187 ng

RT: 25.108 min Scan# 3337

Delta R.T. -0.000 min

Lab File: BN035351.D

Acq: 27 Nov 2024 16:10

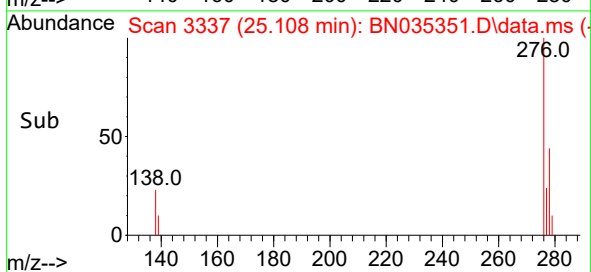
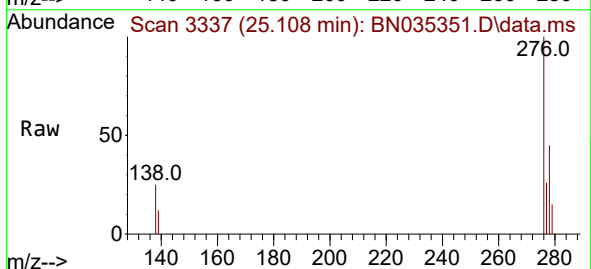
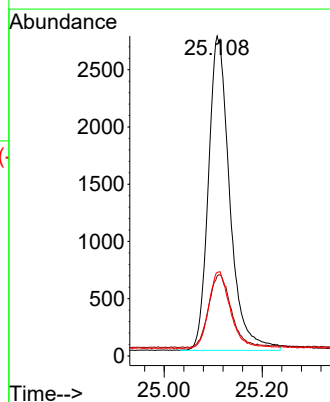
Tgt Ion:276 Resp: 8305

Ion Ratio Lower Upper

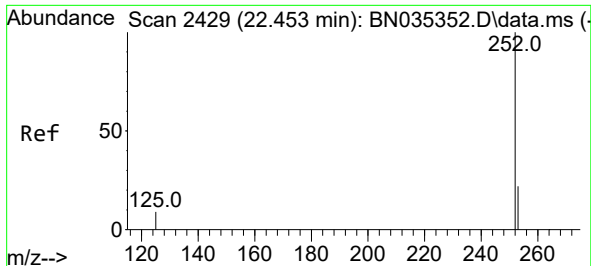
276 100

138 24.3 19.4 29.0

277 24.7 19.8 29.6



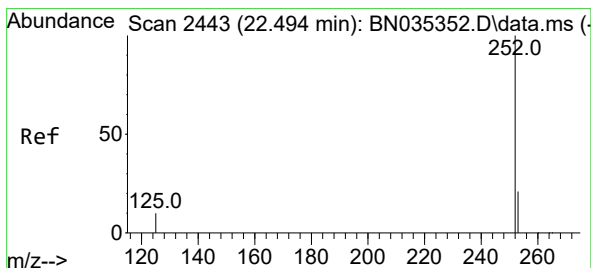
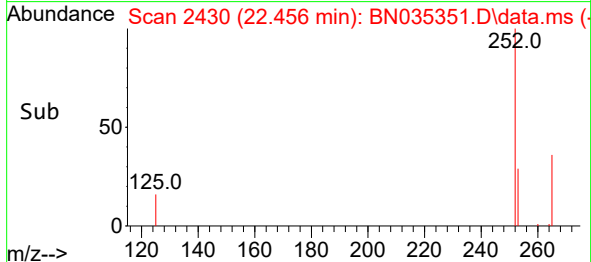
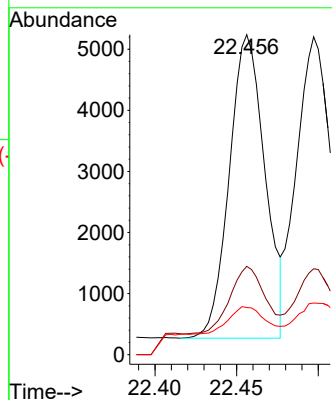
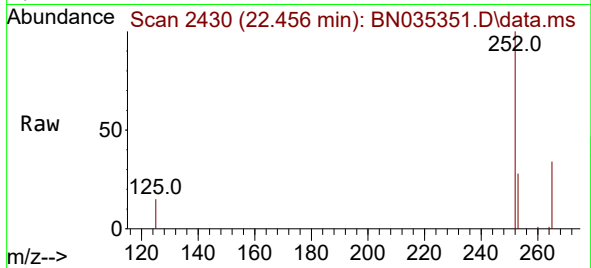




#37  
Benzo(b)fluoranthene  
Concen: 0.200 ng  
RT: 22.456 min Scan# 2430  
Delta R.T. 0.003 min  
Lab File: BN035351.D  
Acq: 27 Nov 2024 16:10

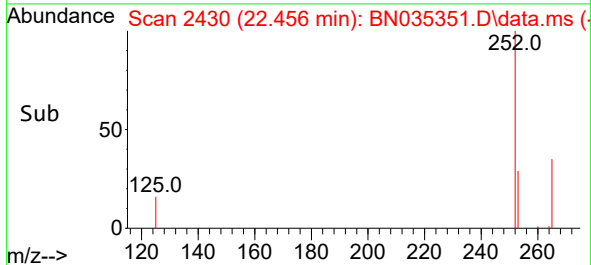
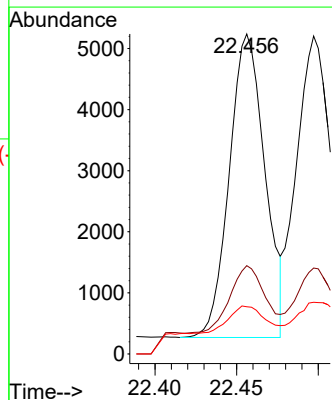
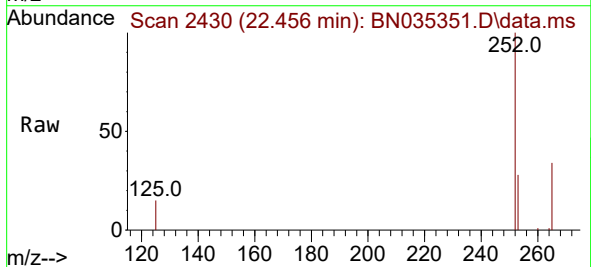
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC0.2

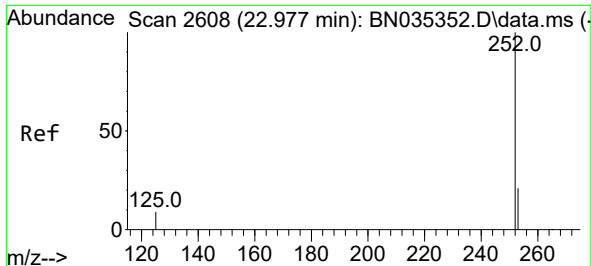
Tgt Ion:252 Resp: 7522  
Ion Ratio Lower Upper  
252 100  
253 27.6 19.6 29.4  
125 14.8 9.6 14.4#



#38  
Benzo(k)fluoranthene  
Concen: 0.200 ng  
RT: 22.456 min Scan# 2430  
Delta R.T. -0.038 min  
Lab File: BN035351.D  
Acq: 27 Nov 2024 16:10

Tgt Ion:252 Resp: 7522  
Ion Ratio Lower Upper  
252 100  
253 27.6 19.5 29.3  
125 14.8 10.2 15.4





#39

Benzo(a)pyrene

Concen: 0.195 ng

RT: 22.980 min Scan# 2609

Delta R.T. 0.003 min

Lab File: BN035351.D

Acq: 27 Nov 2024 16:10

Instrument :

BNA\_N

ClientSampleId :

SSTDICC0.2

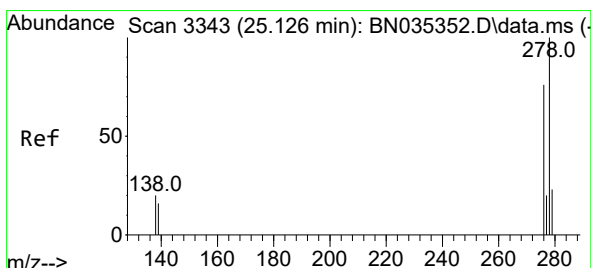
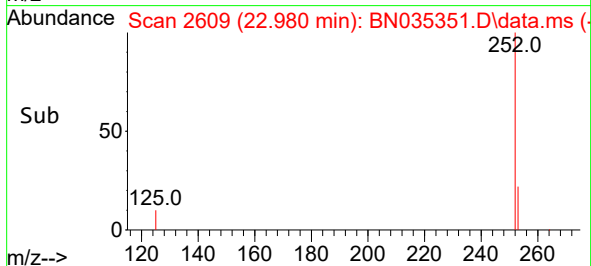
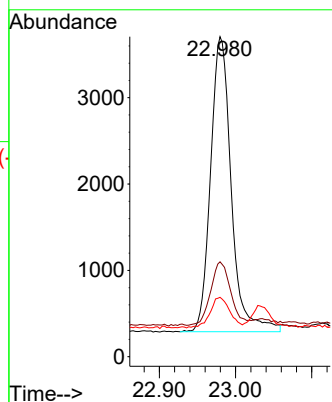
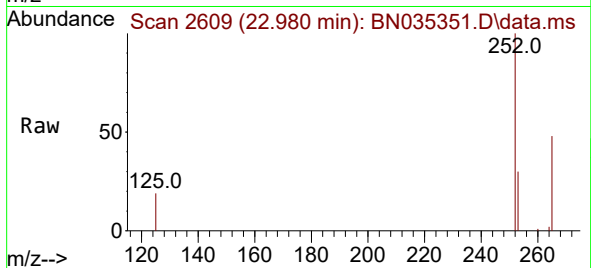
Tgt Ion:252 Resp: 6450

Ion Ratio Lower Upper

252 100

253 29.7 20.2 30.4

125 18.5 10.9 16.3#



#40

Dibenzo(a,h)anthracene

Concen: 0.188 ng

RT: 25.128 min Scan# 3344

Delta R.T. 0.003 min

Lab File: BN035351.D

Acq: 27 Nov 2024 16:10

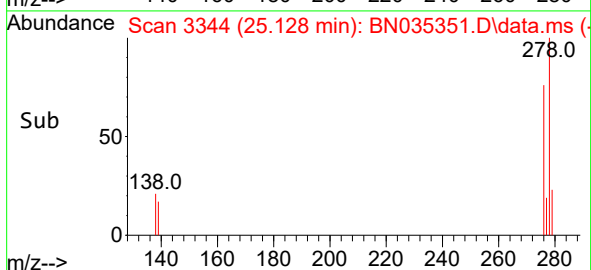
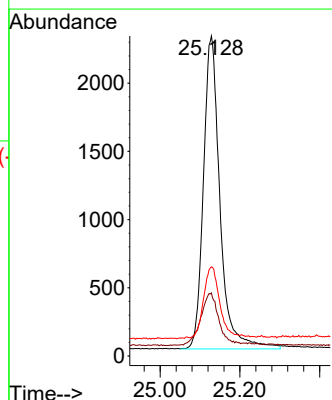
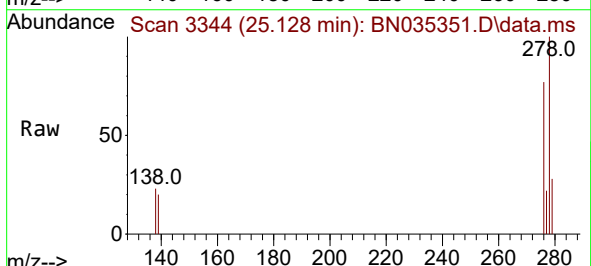
Tgt Ion:278 Resp: 6620

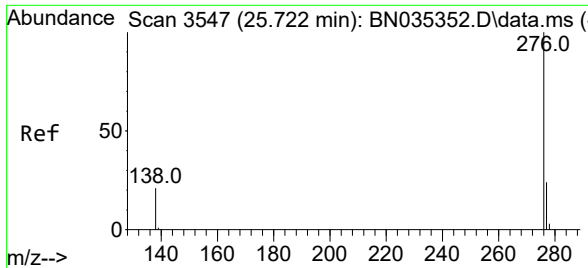
Ion Ratio Lower Upper

278 100

139 19.7 14.2 21.4

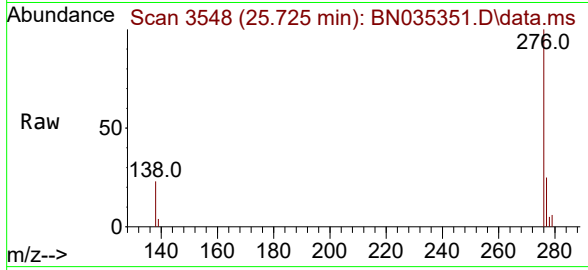
279 27.9 20.5 30.7



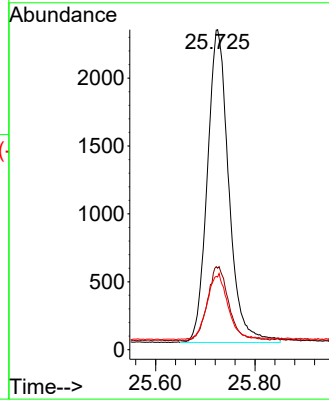
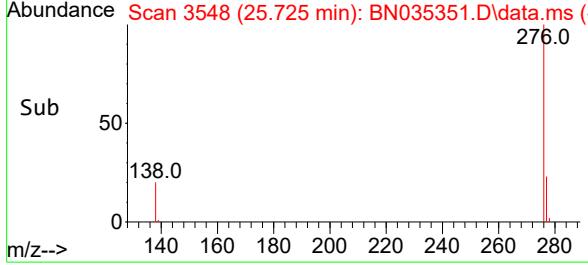


#41  
Benzo(g,h,i)perylene  
Concen: 0.184 ng  
RT: 25.725 min Scan# 31  
Delta R.T. 0.003 min  
Lab File: BN035351.D  
Acq: 27 Nov 2024 16:10

Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC0.2



|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 276   | Resp: | 6908  |
| Ion      | Ratio | Lower | Upper |
| 276      | 100   |       |       |
| 277      | 25.5  | 19.9  | 29.9  |
| 138      | 22.7  | 17.8  | 26.8  |



Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN112724\  
 Data File : BN035352.D  
 Acq On : 27 Nov 2024 16:46  
 Operator : RC/JU  
 Sample : SSTDICCC0.4  
 Misc :  
 ALS Vial : 4 Sample Multiplier: 1

Instrument :  
 BNA\_N  
 ClientSampleId :  
 SSTDICCC0.4

Quant Time: Nov 27 22:52:52 2024  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\8270-SIM-BN112724.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Wed Nov 27 22:48:24 2024  
 Response via : Initial Calibration

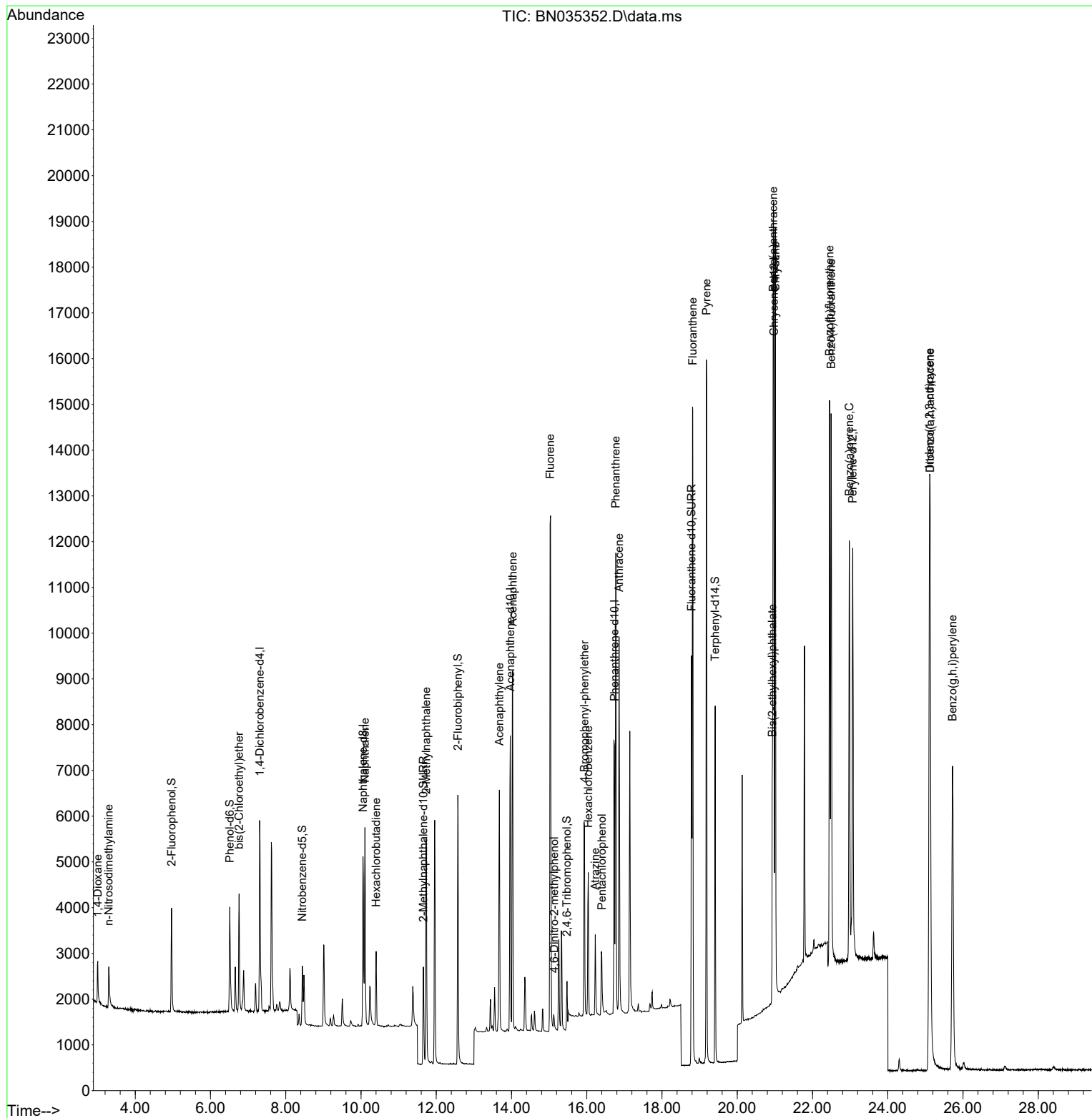
| Compound                      | R.T.   | QIon | Response | Conc  | Units | Dev(Min) |
|-------------------------------|--------|------|----------|-------|-------|----------|
| Internal Standards            |        |      |          |       |       |          |
| 1) 1,4-Dichlorobenzene-d4     | 7.308  | 152  | 2048     | 0.400 | ng    | 0.00     |
| 7) Naphthalene-d8             | 10.052 | 136  | 5229     | 0.400 | ng    | 0.00     |
| 13) Acenaphthene-d10          | 13.967 | 164  | 3799     | 0.400 | ng    | 0.00     |
| 19) Phenanthrene-d10          | 16.736 | 188  | 9490     | 0.400 | ng    | 0.00     |
| 29) Chrysene-d12              | 20.974 | 240  | 9527     | 0.400 | ng    | 0.00     |
| 35) Perylene-d12              | 23.067 | 264  | 10842    | 0.400 | ng    | 0.00     |
| System Monitoring Compounds   |        |      |          |       |       |          |
| 4) 2-Fluorophenol             | 4.968  | 112  | 2085     | 0.401 | ng    | 0.00     |
| 5) Phenol-d6                  | 6.513  | 99   | 2444     | 0.375 | ng    | 0.00     |
| 8) Nitrobenzene-d5            | 8.440  | 82   | 1371     | 0.301 | ng    | 0.00     |
| 11) 2-Methylnaphthalene-d10   | 11.656 | 152  | 3237     | 0.347 | ng    | 0.00     |
| 14) 2,4,6-Tribromophenol      | 15.475 | 330  | 975      | 0.356 | ng    | 0.00     |
| 15) 2-Fluorobiphenyl          | 12.574 | 172  | 5735     | 0.372 | ng    | 0.00     |
| 27) Fluoranthene-d10          | 18.785 | 212  | 10223    | 0.352 | ng    | 0.00     |
| 31) Terphenyl-d14             | 19.412 | 244  | 7533     | 0.377 | ng    | 0.00     |
| Target Compounds              |        |      |          |       |       |          |
|                               |        |      |          |       |       | Qvalue   |
| 2) 1,4-Dioxane                | 3.003  | 88   | 771      | 0.414 | ng    | 100      |
| 3) n-Nitrosodimethylamine     | 3.292  | 42   | 668      | 0.385 | ng    | 100      |
| 6) bis(2-Chloroethyl)ether    | 6.759  | 93   | 2032     | 0.415 | ng    | 100      |
| 9) Naphthalene                | 10.105 | 128  | 5475     | 0.401 | ng    | 100      |
| 10) Hexachlorobutadiene       | 10.404 | 225  | 1292     | 0.323 | ng    | # 100    |
| 12) 2-Methylnaphthalene       | 11.732 | 142  | 3867     | 0.384 | ng    | 100      |
| 16) Acenaphthylene            | 13.679 | 152  | 6058     | 0.373 | ng    | 100      |
| 17) Acenaphthene              | 14.031 | 154  | 4125     | 0.388 | ng    | 100      |
| 18) Fluorene                  | 15.026 | 166  | 5863     | 0.375 | ng    | 100      |
| 20) 4,6-Dinitro-2-methylph... | 15.133 | 198  | 337      | 0.171 | ng    | 100      |
| 21) 4-Bromophenyl-phenylether | 15.941 | 248  | 2146     | 0.355 | ng    | 100      |
| 22) Hexachlorobenzene         | 16.040 | 284  | 2590     | 0.413 | ng    | 100      |
| 23) Atrazine                  | 16.227 | 200  | 1461     | 0.269 | ng    | 100      |
| 24) Pentachlorophenol         | 16.400 | 266  | 906      | 0.309 | ng    | 87       |
| 25) Phenanthrene              | 16.773 | 178  | 10127    | 0.405 | ng    | 100      |
| 26) Anthracene                | 16.860 | 178  | 8921     | 0.389 | ng    | 100      |
| 28) Fluoranthene              | 18.817 | 202  | 13438    | 0.391 | ng    | 100      |
| 30) Pyrene                    | 19.179 | 202  | 14053    | 0.443 | ng    | 100      |
| 32) Benzo(a)anthracene        | 20.956 | 228  | 12908    | 0.389 | ng    | 100      |
| 33) Chrysene                  | 21.009 | 228  | 13729    | 0.418 | ng    | 100      |
| 34) Bis(2-ethylhexyl)phtha... | 20.929 | 149  | 4912     | 0.282 | ng    | 100      |
| 36) Indeno(1,2,3-cd)pyrene    | 25.108 | 276  | 16615    | 0.384 | ng    | 100      |
| 37) Benzo(b)fluoranthene      | 22.453 | 252  | 14235    | 0.390 | ng    | 100      |
| 38) Benzo(k)fluoranthene      | 22.494 | 252  | 15199    | 0.416 | ng    | 100      |
| 39) Benzo(a)pyrene            | 22.977 | 252  | 12425    | 0.387 | ng    | 100      |
| 40) Dibenzo(a,h)anthracene    | 25.126 | 278  | 12948    | 0.378 | ng    | 100      |
| 41) Benzo(g,h,i)perylene      | 25.722 | 276  | 13529    | 0.371 | ng    | 100      |

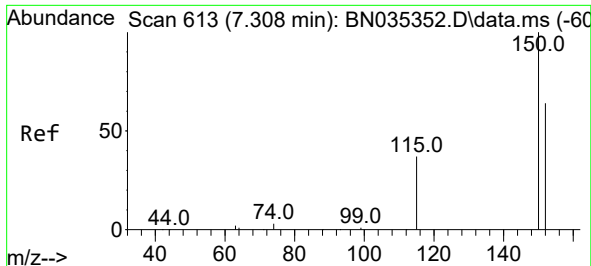
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN112724\  
Data File : BN035352.D  
Acq On : 27 Nov 2024 16:46  
Operator : RC/JU  
Sample : SSTDICCC0.4  
Misc :  
ALS Vial : 4 Sample Multiplier: 1

Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICCC0.4

Quant Time: Nov 27 22:52:52 2024  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\8270-SIM-BN112724.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Wed Nov 27 22:48:24 2024  
Response via : Initial Calibration

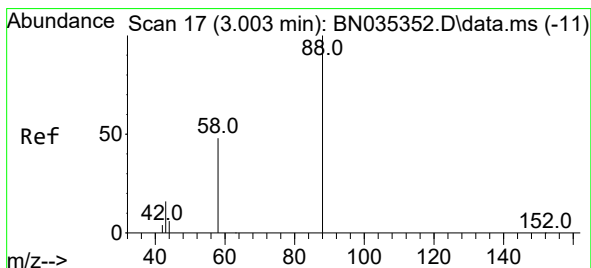
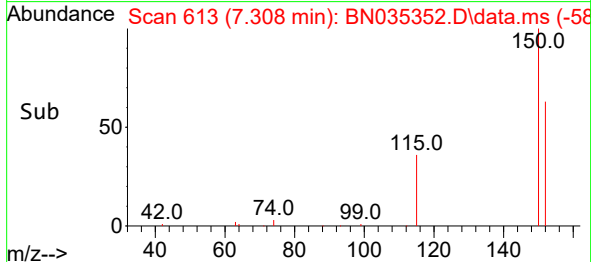
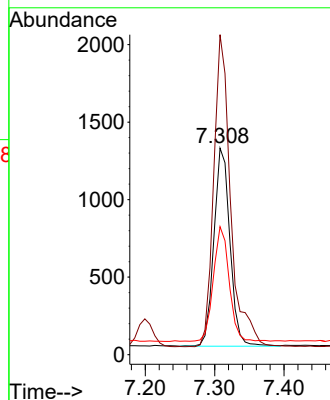
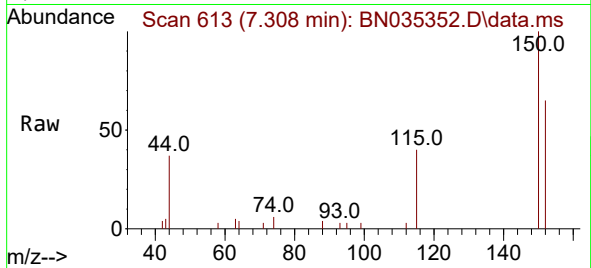




#1  
 1,4-Dichlorobenzene-d4  
 Concen: 0.400 ng  
 RT: 7.308 min Scan# 613  
 Delta R.T. -0.000 min  
 Lab File: BN035352.D  
 Acq: 27 Nov 2024 16:46

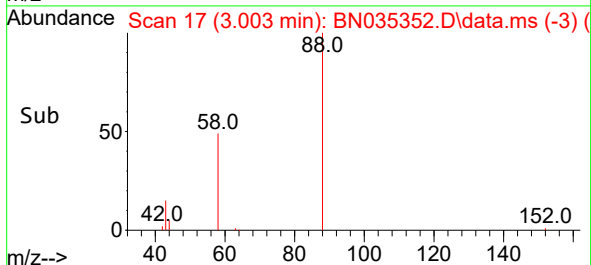
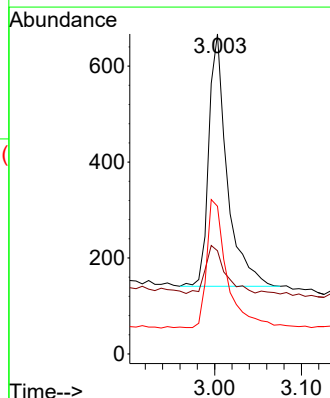
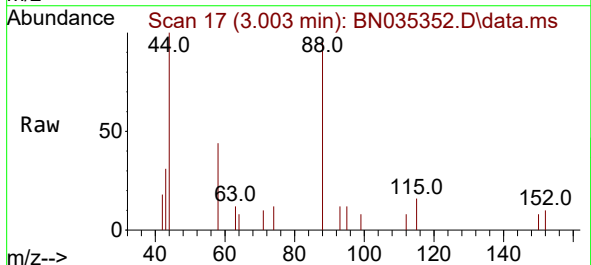
Instrument :  
 BNA\_N  
 ClientSampleId :  
 SSTDICC0.4

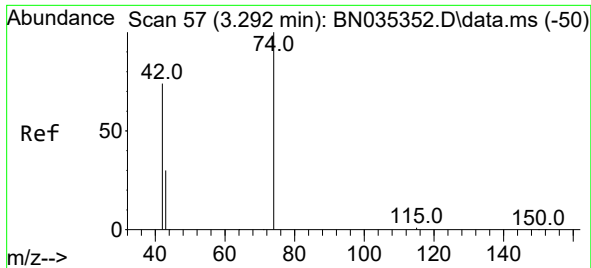
Tgt Ion:152 Resp: 2048  
 Ion Ratio Lower Upper  
 152 100  
 150 155.0 124.0 186.0  
 115 62.0 49.6 74.4



#2  
 1,4-Dioxane  
 Concen: 0.414 ng  
 RT: 3.003 min Scan# 17  
 Delta R.T. 0.000 min  
 Lab File: BN035352.D  
 Acq: 27 Nov 2024 16:46

Tgt Ion: 88 Resp: 771  
 Ion Ratio Lower Upper  
 88 100  
 43 21.5 17.2 25.8  
 58 55.6 44.5 66.7

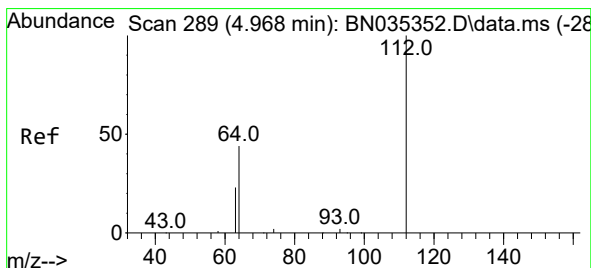
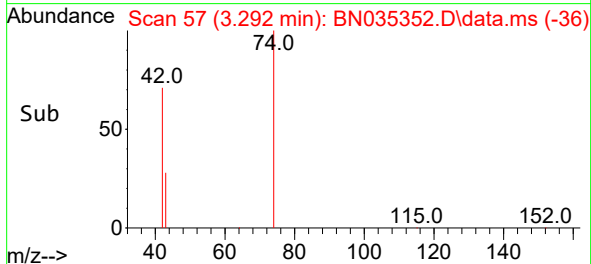
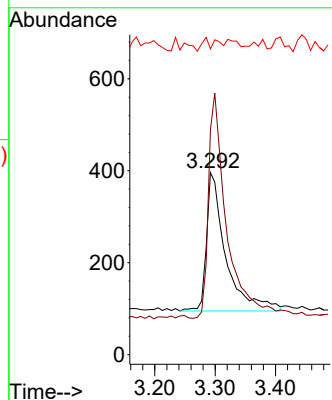
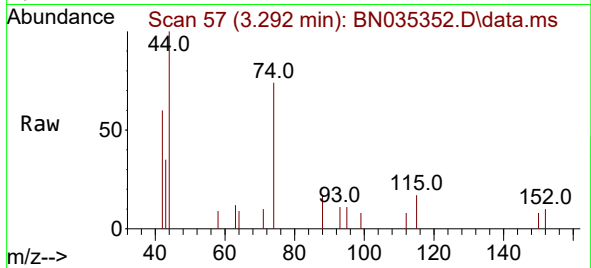




#3  
n-Nitrosodimethylamine  
Concen: 0.385 ng  
RT: 3.292 min Scan# 51  
Delta R.T. 0.000 min  
Lab File: BN035352.D  
Acq: 27 Nov 2024 16:46

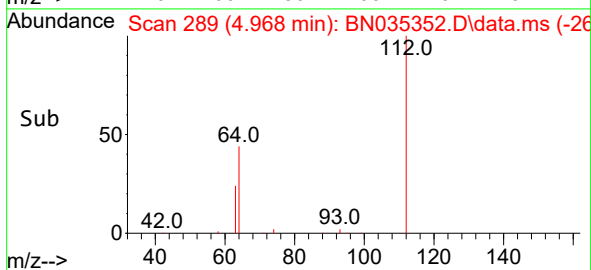
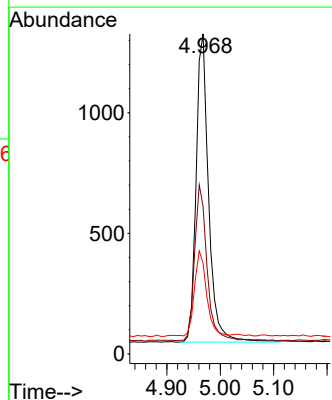
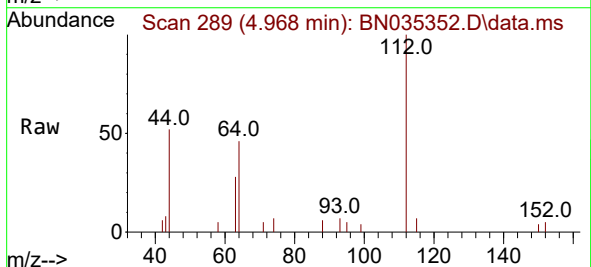
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICCC0.4

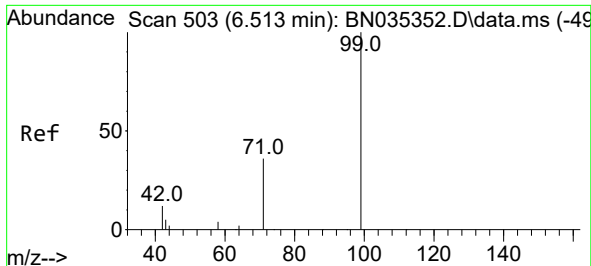
Tgt Ion: 42 Resp: 668  
Ion Ratio Lower Upper  
42 100  
74 156.1 124.9 187.3  
44 2.8 2.2 3.4



#4  
2-Fluorophenol  
Concen: 0.401 ng  
RT: 4.968 min Scan# 289  
Delta R.T. 0.000 min  
Lab File: BN035352.D  
Acq: 27 Nov 2024 16:46

Tgt Ion: 112 Resp: 2085  
Ion Ratio Lower Upper  
112 100  
64 49.8 39.8 59.8  
63 26.3 21.0 31.6

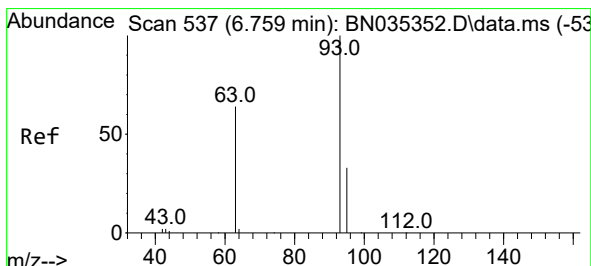
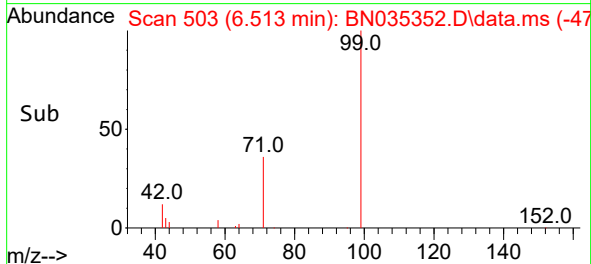
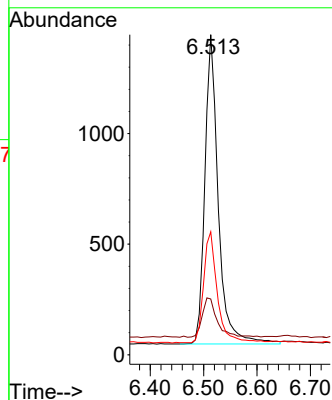
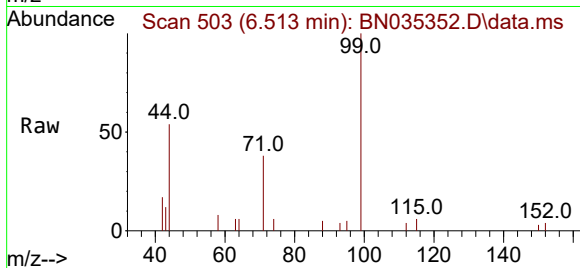




#5  
Phenol-d6  
Concen: 0.375 ng  
RT: 6.513 min Scan# 503  
Delta R.T. 0.000 min  
Lab File: BN035352.D  
Acq: 27 Nov 2024 16:46

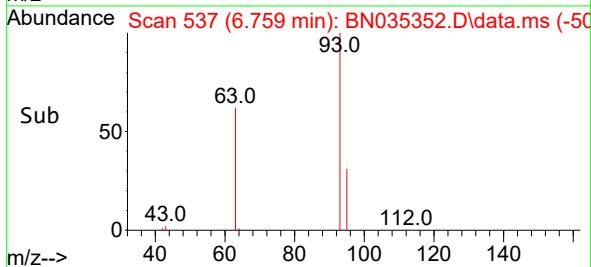
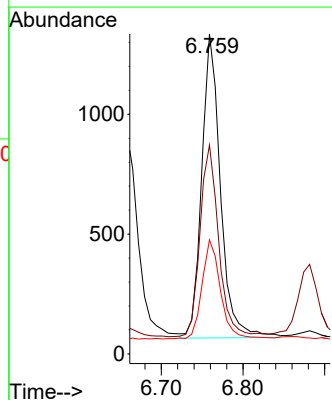
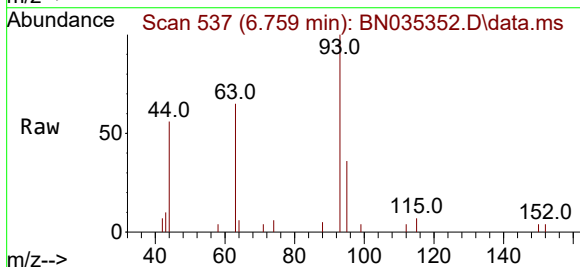
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICCC0.4

Tgt Ion: 99 Resp: 2444  
Ion Ratio Lower Upper  
99 100  
42 14.3 11.4 17.2  
71 36.6 29.3 43.9

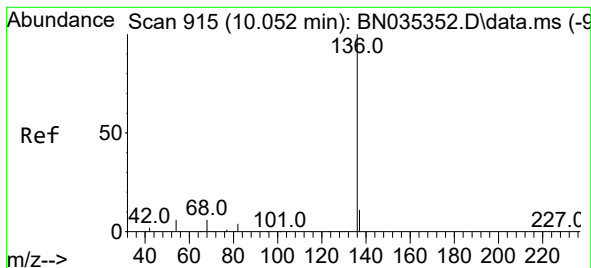


#6  
bis(2-Chloroethyl)ether  
Concen: 0.415 ng  
RT: 6.759 min Scan# 537  
Delta R.T. 0.000 min  
Lab File: BN035352.D  
Acq: 27 Nov 2024 16:46

Tgt Ion: 93 Resp: 2032  
Ion Ratio Lower Upper  
93 100  
63 63.0 50.4 75.6  
95 32.1 25.7 38.5







#7

Naphthalene-d8

Concen: 0.400 ng

RT: 10.052 min Scan# 915

Delta R.T. 0.000 min

Lab File: BN035352.D

Acq: 27 Nov 2024 16:46

Instrument :

BNA\_N

ClientSampleId :

SSTDICCC0.4

Tgt Ion:136 Resp: 5229

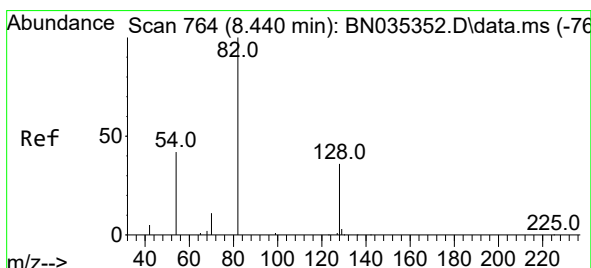
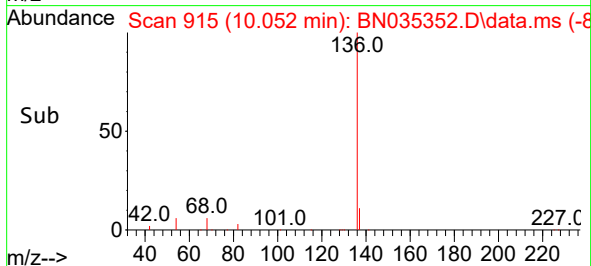
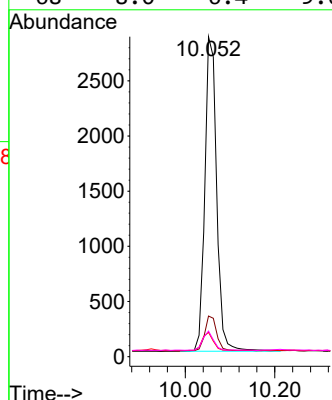
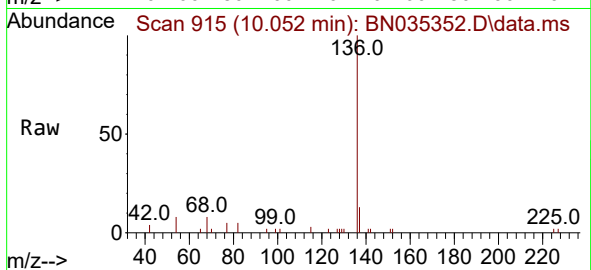
Ion Ratio Lower Upper

136 100

137 12.7 10.2 15.2

54 7.6 6.1 9.1

68 8.0 6.4 9.6



#8

Nitrobenzene-d5

Concen: 0.301 ng

RT: 8.440 min Scan# 764

Delta R.T. 0.000 min

Lab File: BN035352.D

Acq: 27 Nov 2024 16:46

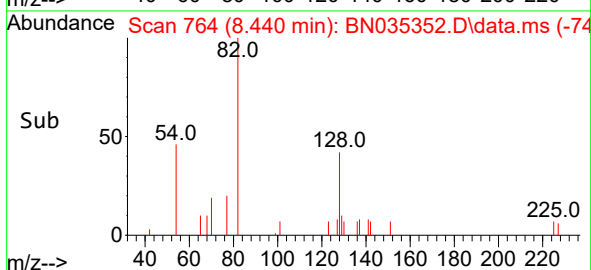
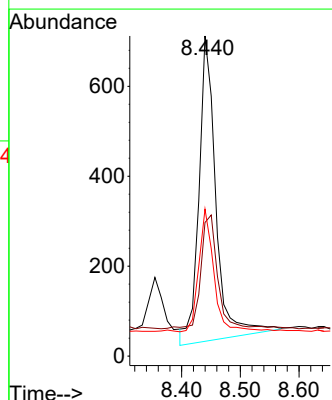
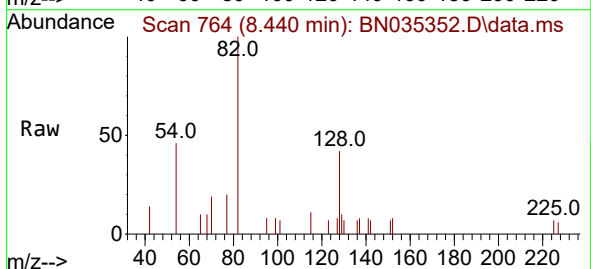
Tgt Ion: 82 Resp: 1371

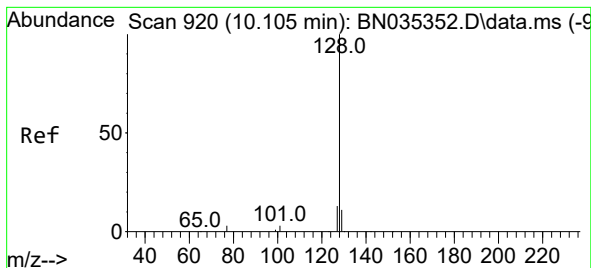
Ion Ratio Lower Upper

82 100

128 41.7 33.4 50.0

54 45.9 36.7 55.1





#9

Naphthalene

Concen: 0.401 ng

RT: 10.105 min Scan# 91

Delta R.T. 0.000 min

Lab File: BN035352.D

Acq: 27 Nov 2024 16:46

Instrument :

BNA\_N

ClientSampleId :

SSTDICCC0.4

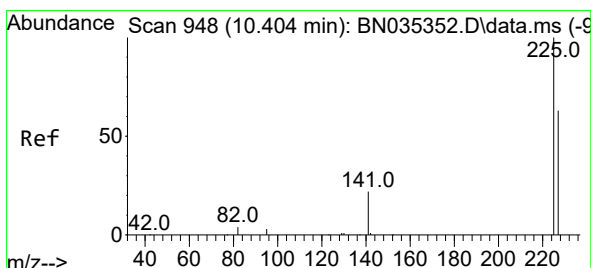
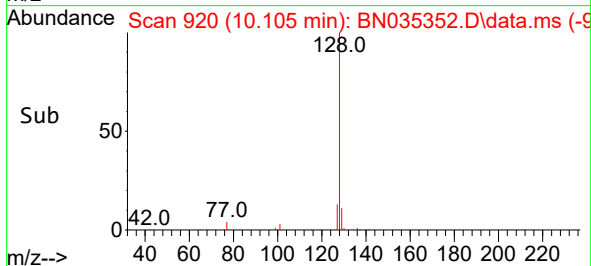
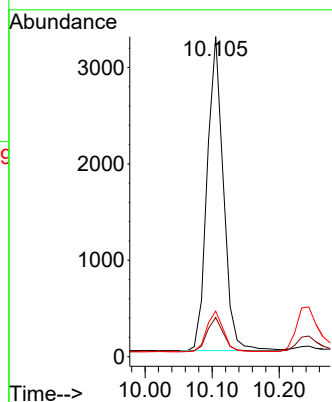
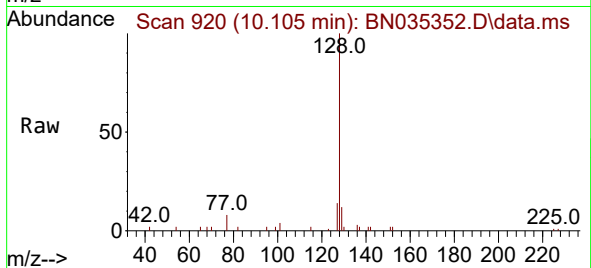
Tgt Ion:128 Resp: 5475

Ion Ratio Lower Upper

128 100

129 12.2 9.8 14.6

127 14.3 11.4 17.2



#10

Hexachlorobutadiene

Concen: 0.323 ng

RT: 10.404 min Scan# 948

Delta R.T. 0.000 min

Lab File: BN035352.D

Acq: 27 Nov 2024 16:46

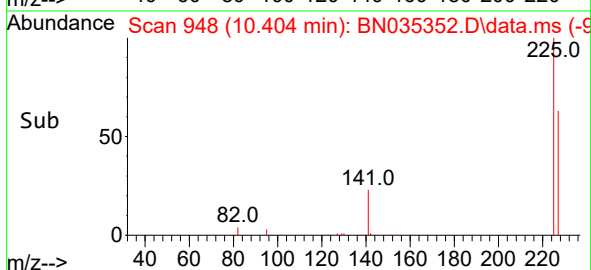
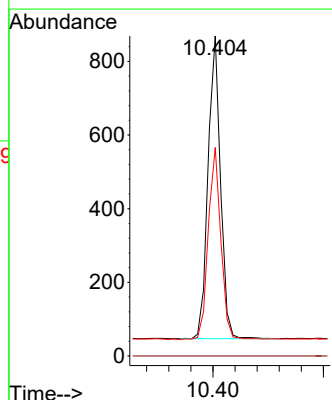
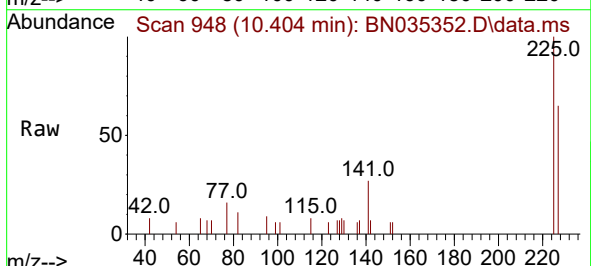
Tgt Ion:225 Resp: 1292

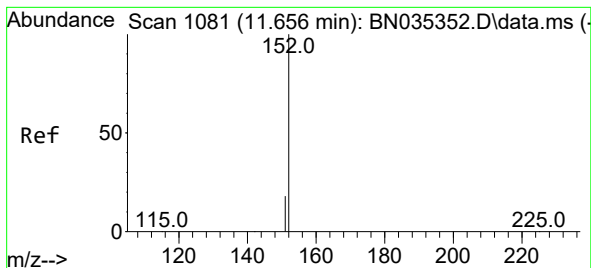
Ion Ratio Lower Upper

225 100

223 0.0 0.0 0.0

227 64.1 51.3 76.9

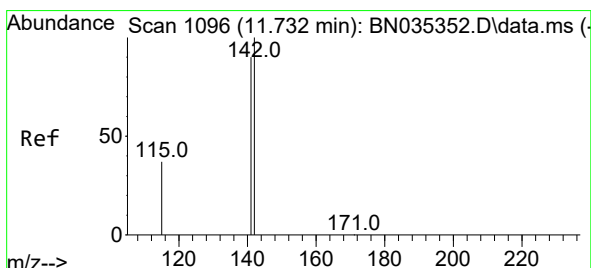
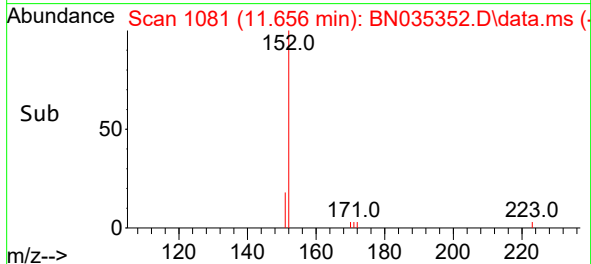
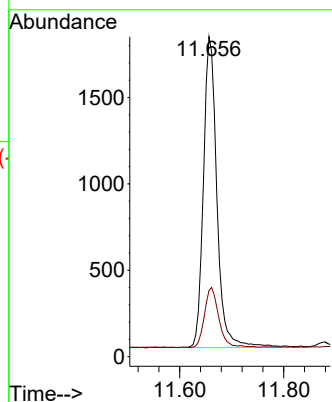
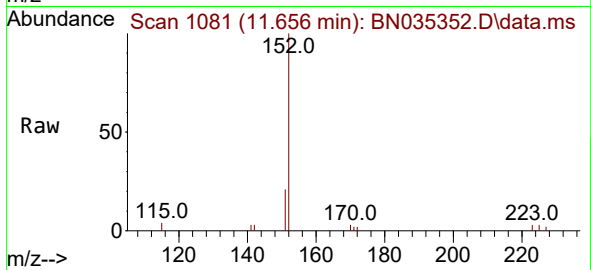




#11  
2-Methylnaphthalene-d10  
Concen: 0.347 ng  
RT: 11.656 min Scan# 1081  
Delta R.T. 0.000 min  
Lab File: BN035352.D  
Acq: 27 Nov 2024 16:46

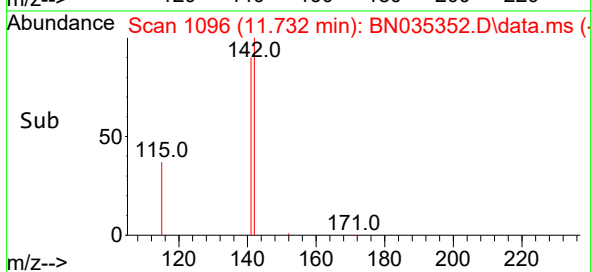
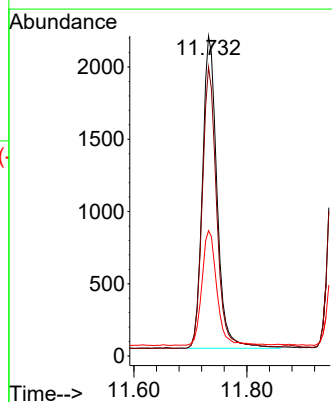
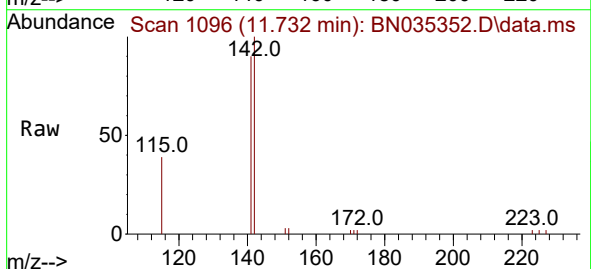
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICCC0.4

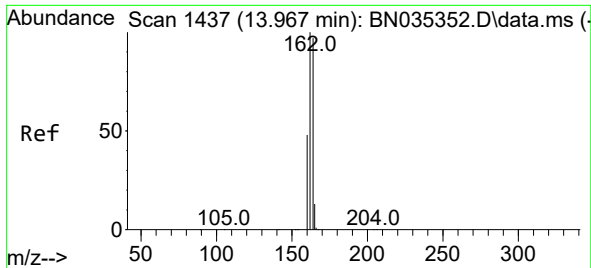
Tgt Ion:152 Resp: 3237  
Ion Ratio Lower Upper  
152 100  
151 20.8 16.6 25.0



#12  
2-Methylnaphthalene  
Concen: 0.384 ng  
RT: 11.732 min Scan# 1096  
Delta R.T. 0.000 min  
Lab File: BN035352.D  
Acq: 27 Nov 2024 16:46

Tgt Ion:142 Resp: 3867  
Ion Ratio Lower Upper  
142 100  
141 90.3 72.2 108.4  
115 39.2 31.4 47.0

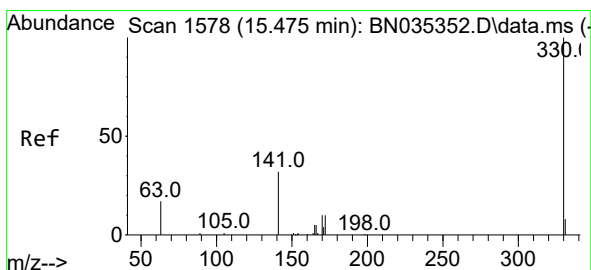
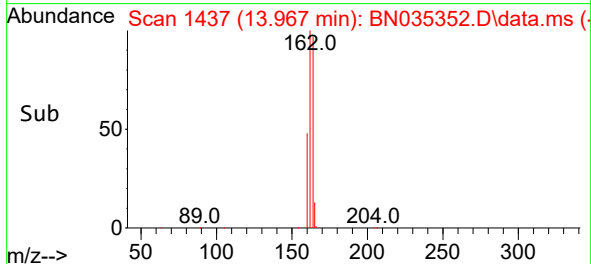
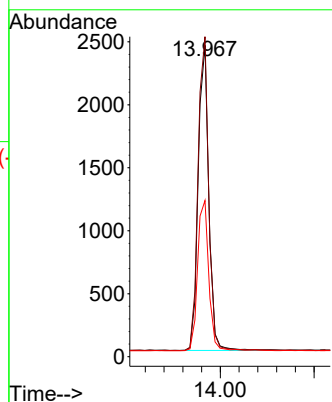
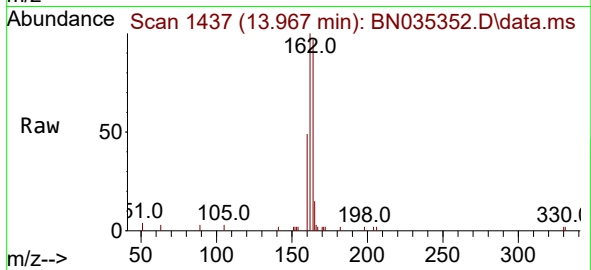




#13  
Acenaphthene-d10  
Concen: 0.400 ng  
RT: 13.967 min Scan# 1437  
Delta R.T. 0.000 min  
Lab File: BN035352.D  
Acq: 27 Nov 2024 16:46

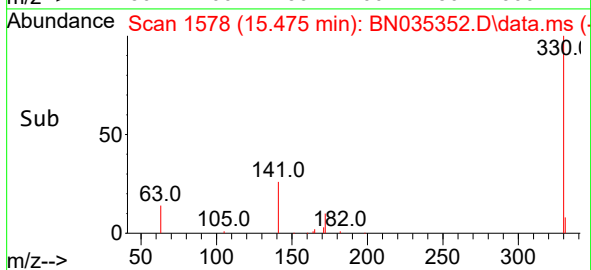
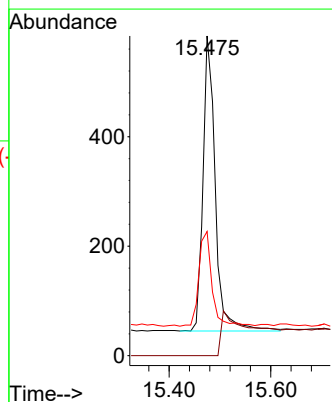
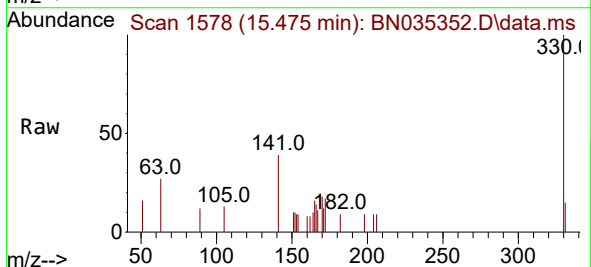
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICCC0.4

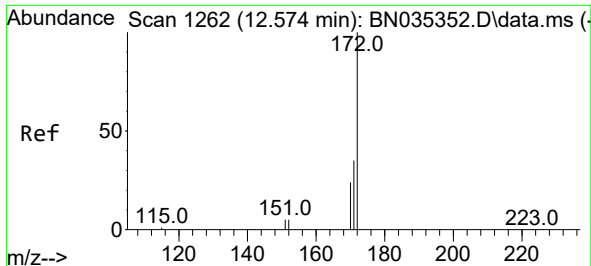
Tgt Ion:164 Resp: 3799  
Ion Ratio Lower Upper  
164 100  
162 102.7 82.2 123.2  
160 50.1 40.1 60.1



#14  
2,4,6-Tribromophenol  
Concen: 0.356 ng  
RT: 15.475 min Scan# 1578  
Delta R.T. 0.000 min  
Lab File: BN035352.D  
Acq: 27 Nov 2024 16:46

Tgt Ion:330 Resp: 975  
Ion Ratio Lower Upper  
330 100  
332 0.0 0.0 0.0  
141 33.3 26.6 40.0

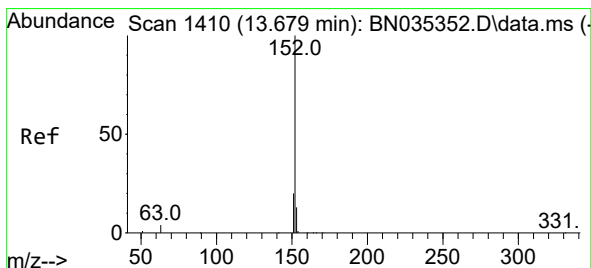
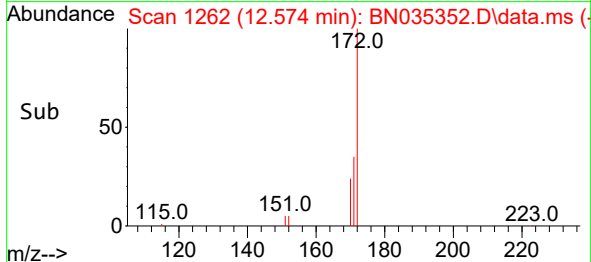
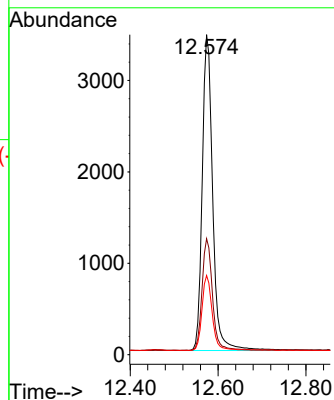
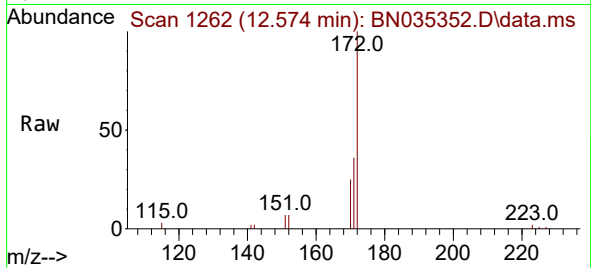




#15  
2-Fluorobiphenyl  
Concen: 0.372 ng  
RT: 12.574 min Scan# 1262  
Delta R.T. 0.000 min  
Lab File: BN035352.D  
Acq: 27 Nov 2024 16:46

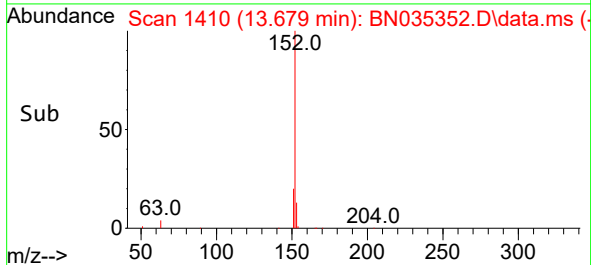
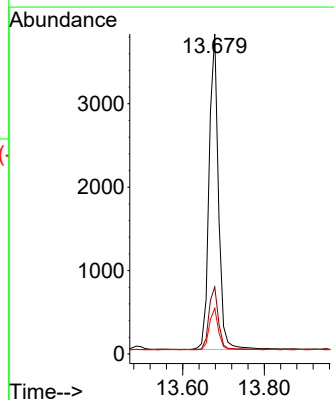
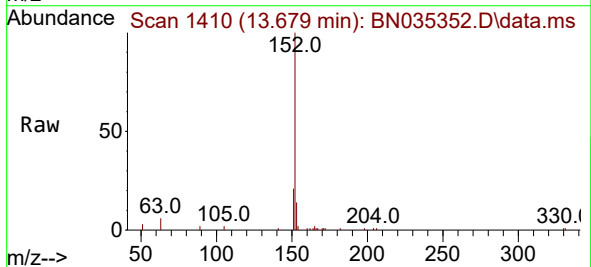
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICCC0.4

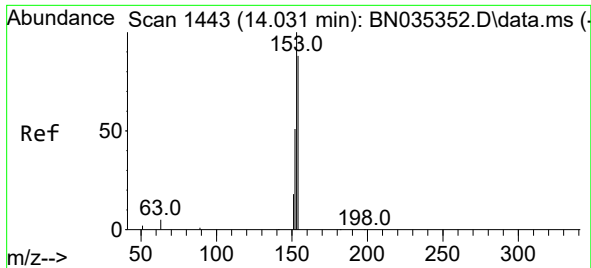
Tgt Ion:172 Resp: 5735  
Ion Ratio Lower Upper  
172 100  
171 36.2 29.0 43.4  
170 24.8 19.8 29.8



#16  
Acenaphthylene  
Concen: 0.373 ng  
RT: 13.679 min Scan# 1410  
Delta R.T. 0.000 min  
Lab File: BN035352.D  
Acq: 27 Nov 2024 16:46

Tgt Ion:152 Resp: 6058  
Ion Ratio Lower Upper  
152 100  
151 20.2 16.2 24.2  
153 13.0 10.4 15.6

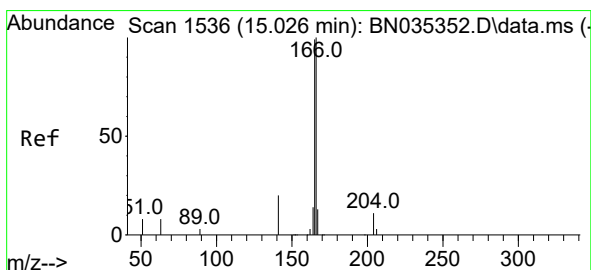
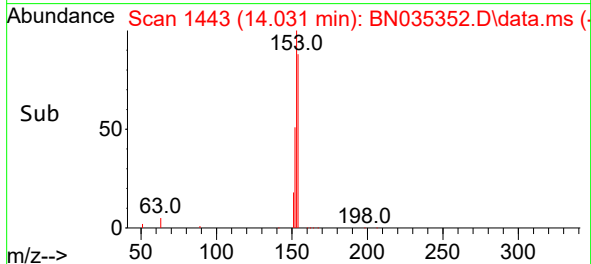
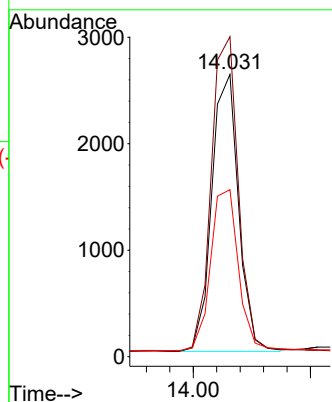
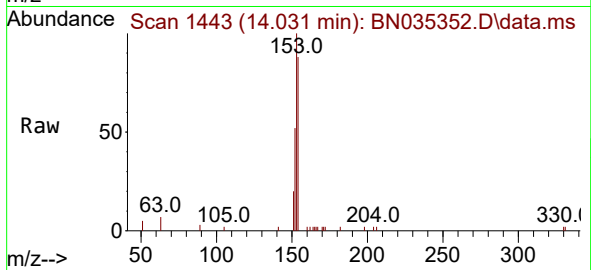




#17  
Acenaphthene  
Concen: 0.388 ng  
RT: 14.031 min Scan# 1443  
Delta R.T. 0.000 min  
Lab File: BN035352.D  
Acq: 27 Nov 2024 16:46

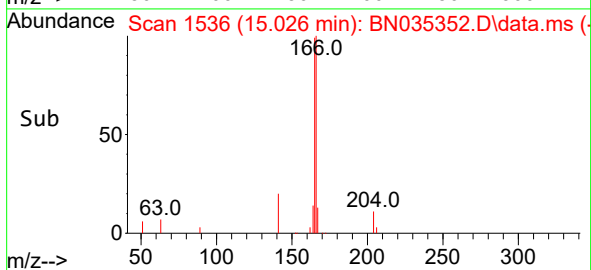
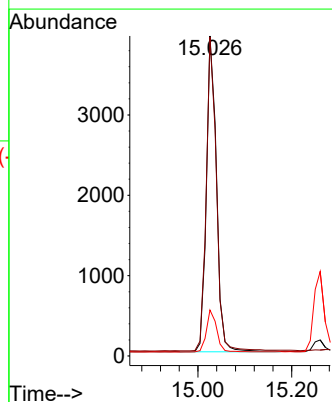
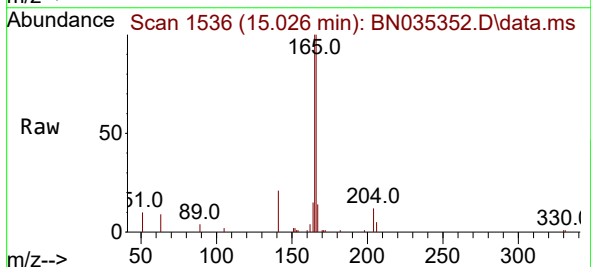
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICCC0.4

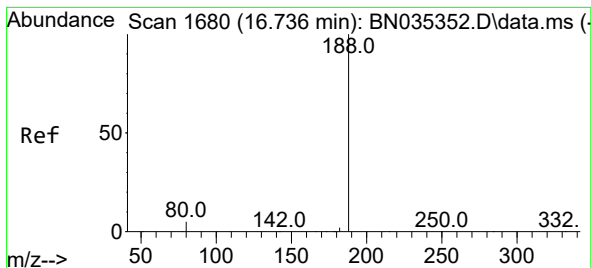
Tgt Ion:154 Resp: 4125  
Ion Ratio Lower Upper  
154 100  
153 115.8 92.6 139.0  
152 61.3 49.0 73.6



#18  
Fluorene  
Concen: 0.375 ng  
RT: 15.026 min Scan# 1536  
Delta R.T. 0.000 min  
Lab File: BN035352.D  
Acq: 27 Nov 2024 16:46

Tgt Ion:166 Resp: 5863  
Ion Ratio Lower Upper  
166 100  
165 99.6 79.7 119.5  
167 13.5 10.8 16.2





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 16.736 min Scan# 1

Delta R.T. 0.000 min

Lab File: BN035352.D

Acq: 27 Nov 2024 16:46

Instrument :

BNA\_N

ClientSampleId :

SSTDICCC0.4

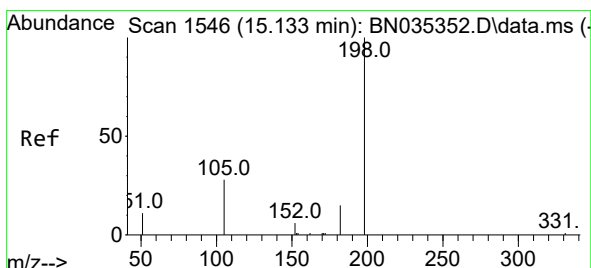
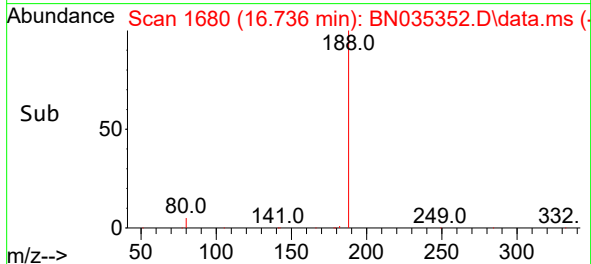
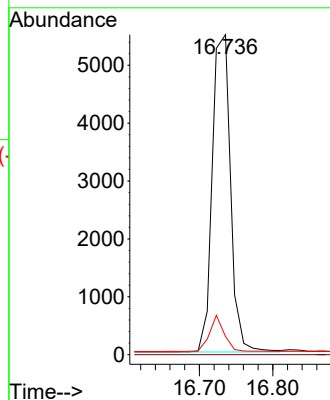
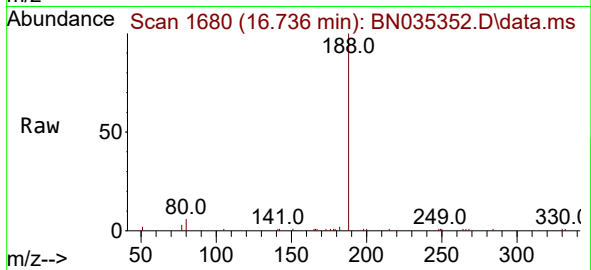
Tgt Ion:188 Resp: 9490

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 5.7 4.6 6.8



#20

4,6-Dinitro-2-methylphenol

Concen: 0.171 ng

RT: 15.133 min Scan# 1546

Delta R.T. 0.000 min

Lab File: BN035352.D

Acq: 27 Nov 2024 16:46

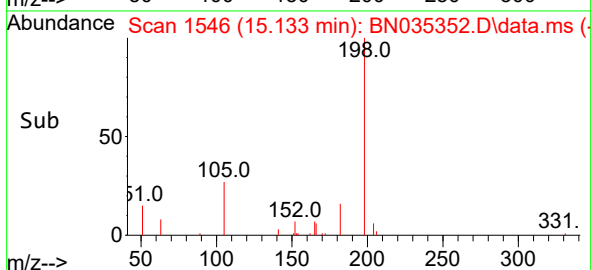
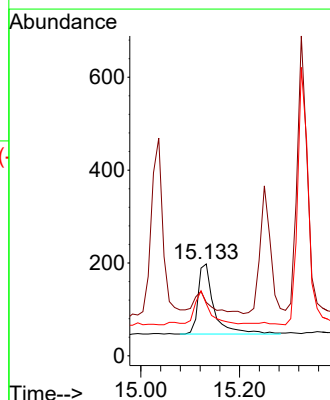
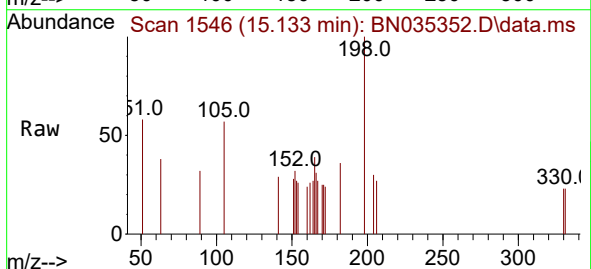
Tgt Ion:198 Resp: 337

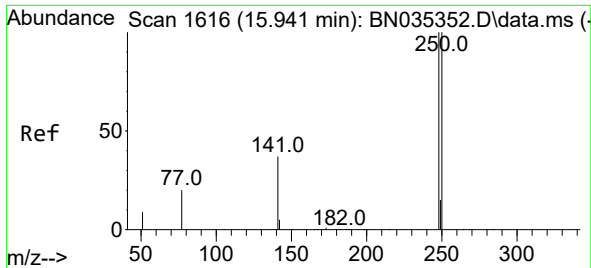
Ion Ratio Lower Upper

198 100

51 58.1 46.5 69.7

105 56.6 45.3 67.9

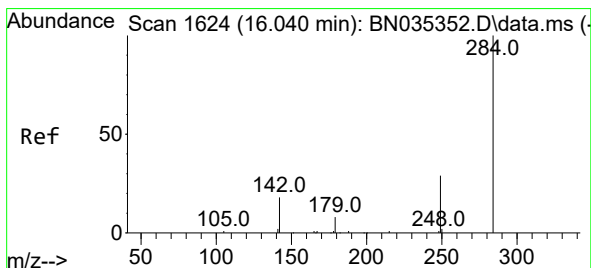
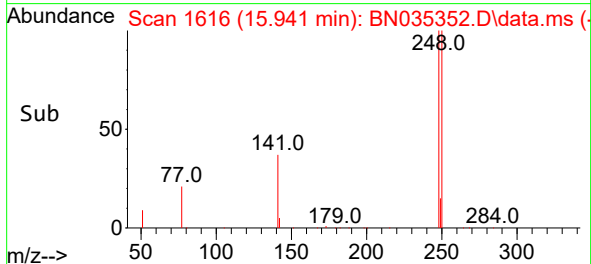
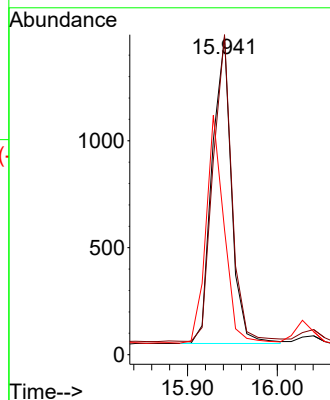
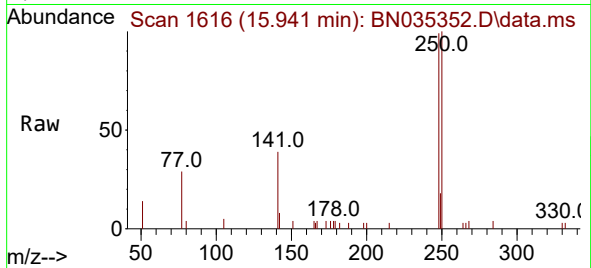




#21  
4-Bromophenyl-phenylether  
Concen: 0.355 ng  
RT: 15.941 min Scan# 1616  
Delta R.T. 0.000 min  
Lab File: BN035352.D  
Acq: 27 Nov 2024 16:46

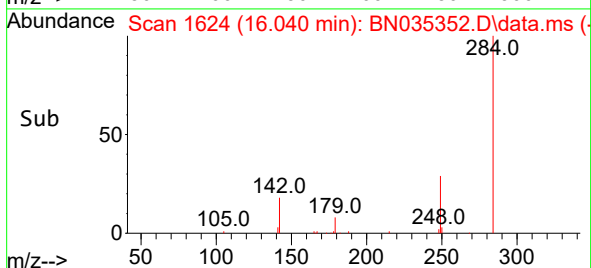
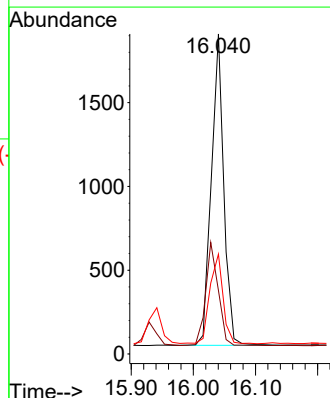
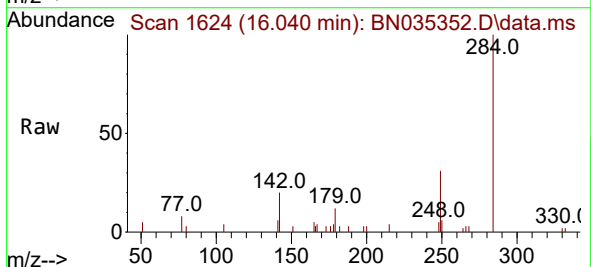
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICCC0.4

Tgt Ion:248 Resp: 2146  
Ion Ratio Lower Upper  
248 100  
250 100.7 80.6 120.8  
141 39.4 31.5 47.3

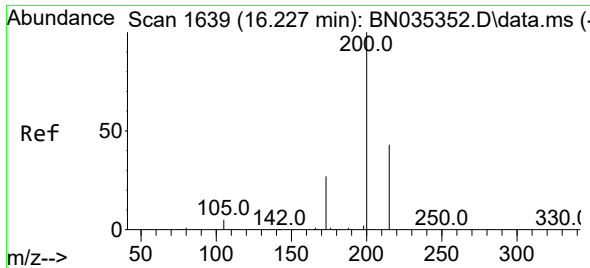


#22  
Hexachlorobenzene  
Concen: 0.413 ng  
RT: 16.040 min Scan# 1624  
Delta R.T. 0.000 min  
Lab File: BN035352.D  
Acq: 27 Nov 2024 16:46

Tgt Ion:284 Resp: 2590  
Ion Ratio Lower Upper  
284 100  
142 33.4 26.7 40.1  
249 30.7 24.6 36.8



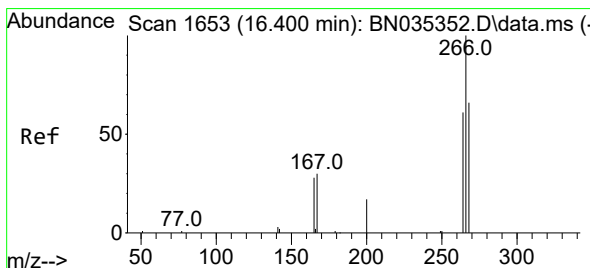
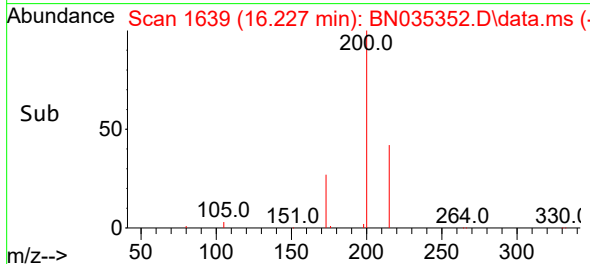
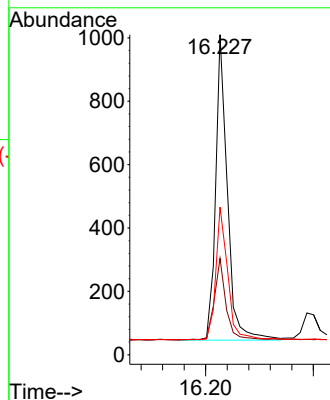
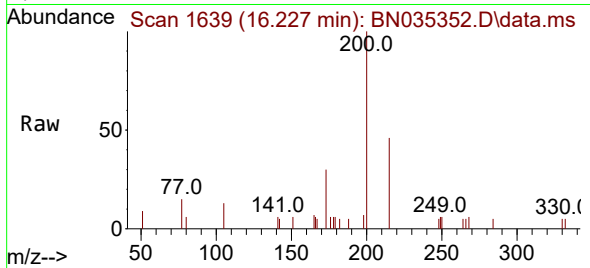




#23  
 Atrazine  
 Concen: 0.269 ng  
 RT: 16.227 min Scan# 1639  
 Delta R.T. 0.000 min  
 Lab File: BN035352.D  
 Acq: 27 Nov 2024 16:46

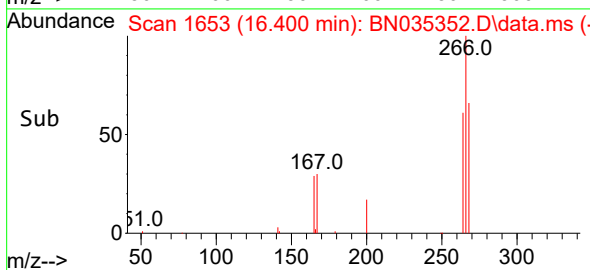
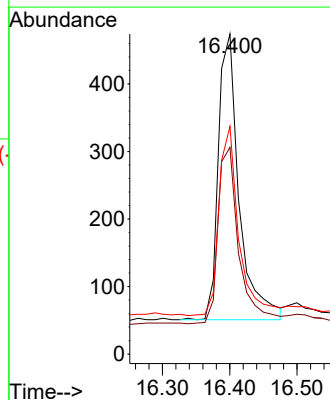
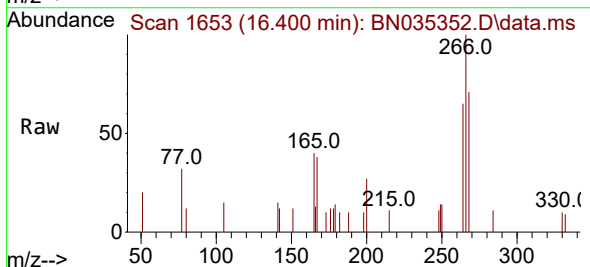
Instrument :  
 BNA\_N  
 ClientSampleId :  
 SSTDICC0.4

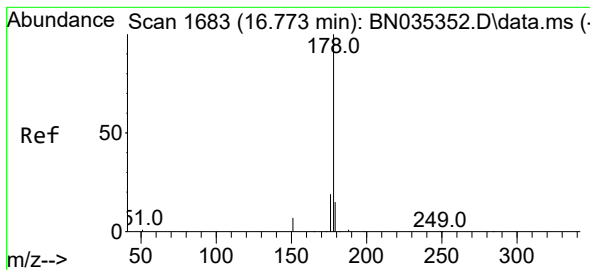
|           |       |       |      |
|-----------|-------|-------|------|
| Tgt Ion:  | 200   | Resp: | 1461 |
| Ion Ratio | Lower | Upper |      |
| 200       | 100   |       |      |
| 173       | 30.1  | 24.1  | 36.1 |
| 215       | 46.1  | 36.9  | 55.3 |



#24  
 Pentachlorophenol  
 Concen: 0.309 ng  
 RT: 16.400 min Scan# 1653  
 Delta R.T. 0.000 min  
 Lab File: BN035352.D  
 Acq: 27 Nov 2024 16:46

|           |       |       |      |
|-----------|-------|-------|------|
| Tgt Ion:  | 266   | Resp: | 906  |
| Ion Ratio | Lower | Upper |      |
| 266       | 100   |       |      |
| 264       | 62.4  | 42.3  | 63.5 |
| 268       | 63.8  | 43.3  | 64.9 |





#25

Phenanthrene

Concen: 0.405 ng

RT: 16.773 min Scan# 1683

Delta R.T. 0.000 min

Lab File: BN035352.D

Acq: 27 Nov 2024 16:46

Instrument :

BNA\_N

ClientSampleId :

SSTDICCC0.4

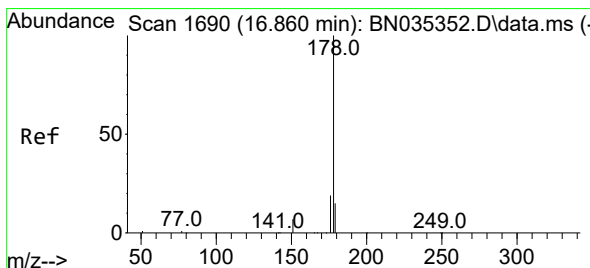
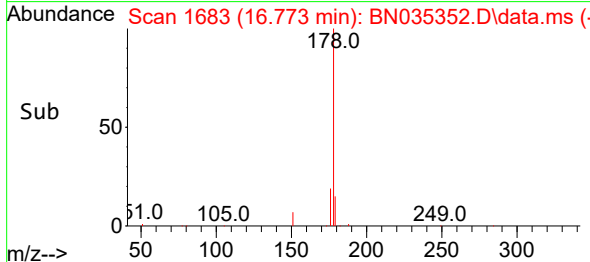
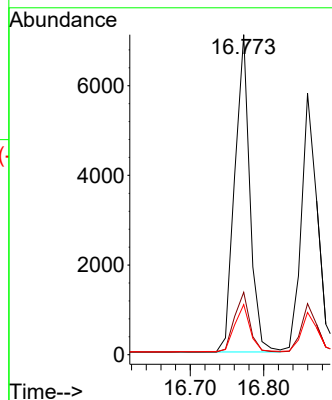
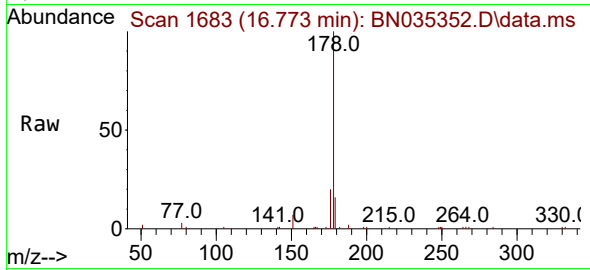
Tgt Ion:178 Resp: 10127

Ion Ratio Lower Upper

178 100

176 19.3 15.4 23.2

179 15.4 12.3 18.5



#26

Anthracene

Concen: 0.389 ng

RT: 16.860 min Scan# 1690

Delta R.T. 0.000 min

Lab File: BN035352.D

Acq: 27 Nov 2024 16:46

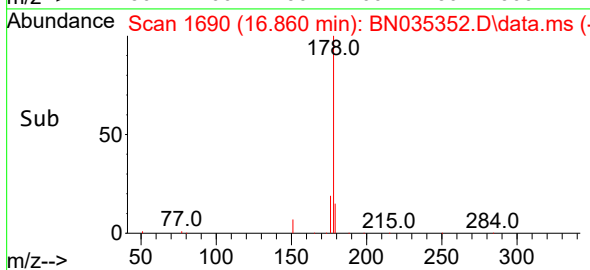
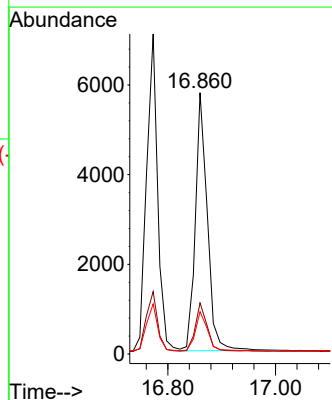
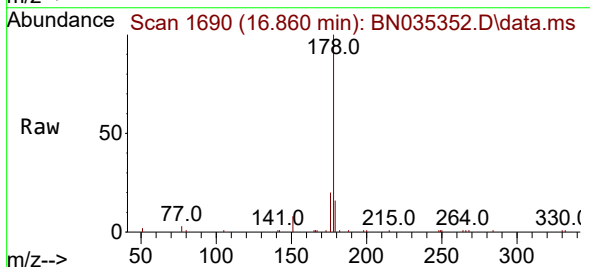
Tgt Ion:178 Resp: 8921

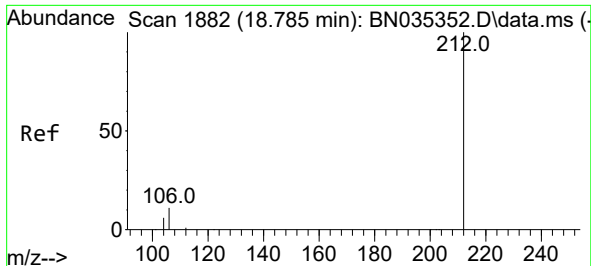
Ion Ratio Lower Upper

178 100

176 18.8 15.0 22.6

179 15.7 12.6 18.8

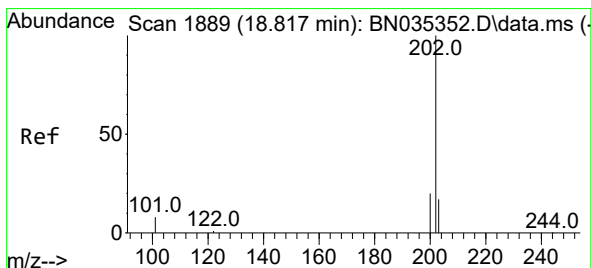
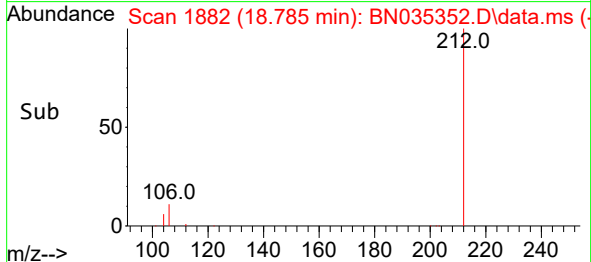
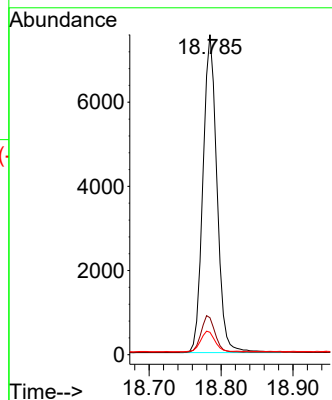
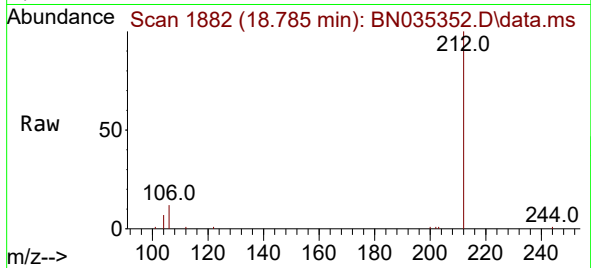




#27  
Fluoranthene-d10  
Concen: 0.352 ng  
RT: 18.785 min Scan# 1882  
Delta R.T. 0.000 min  
Lab File: BN035352.D  
Acq: 27 Nov 2024 16:46

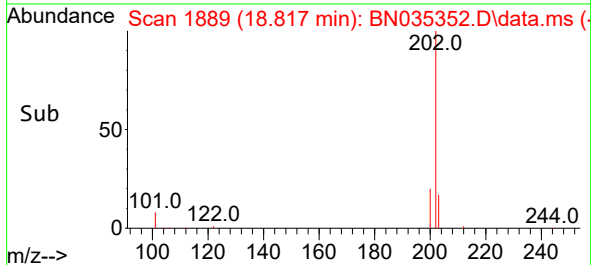
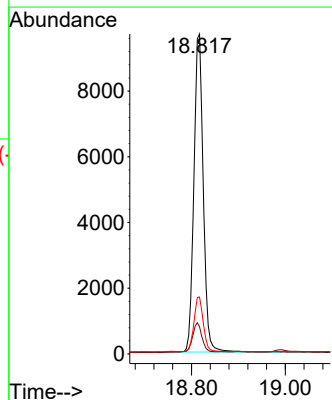
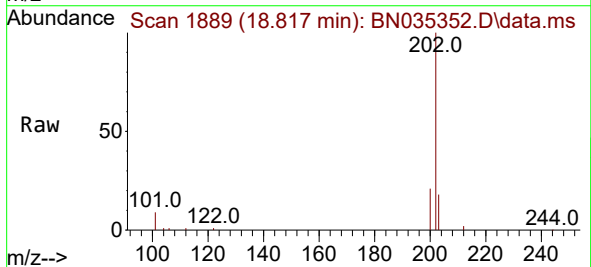
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICCC0.4

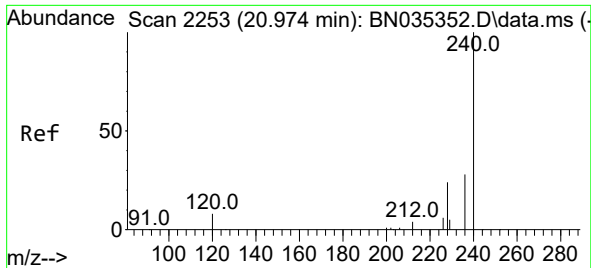
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 212     | 100   |       |       |
| 106     | 11.5  | 9.2   | 13.8  |
| 104     | 6.6   | 5.3   | 7.9   |



#28  
Fluoranthene  
Concen: 0.391 ng  
RT: 18.817 min Scan# 1889  
Delta R.T. 0.000 min  
Lab File: BN035352.D  
Acq: 27 Nov 2024 16:46

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 202     | 100   |       |       |
| 101     | 9.2   | 7.4   | 11.0  |
| 203     | 17.1  | 13.7  | 20.5  |

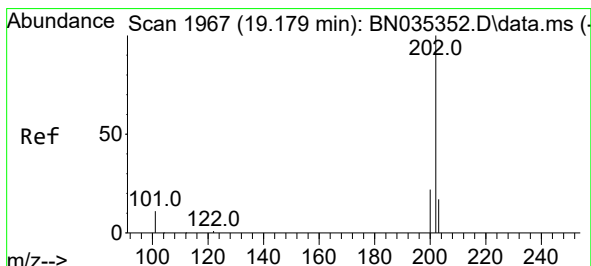
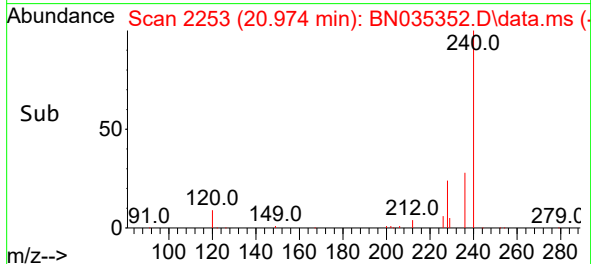
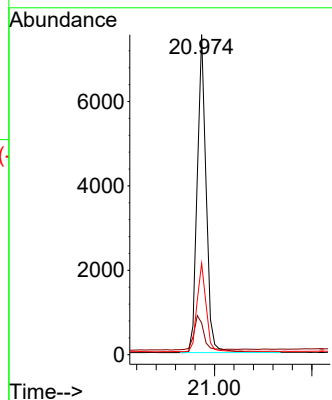
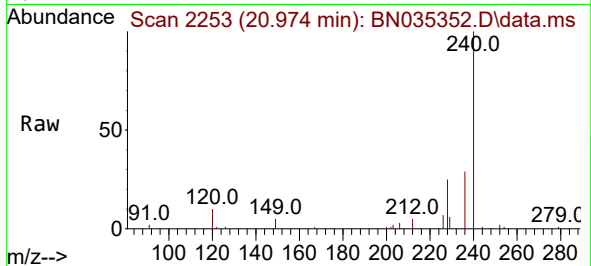




#29  
Chrysene-d12  
Concen: 0.400 ng  
RT: 20.974 min Scan# 21  
Delta R.T. 0.000 min  
Lab File: BN035352.D  
Acq: 27 Nov 2024 16:46

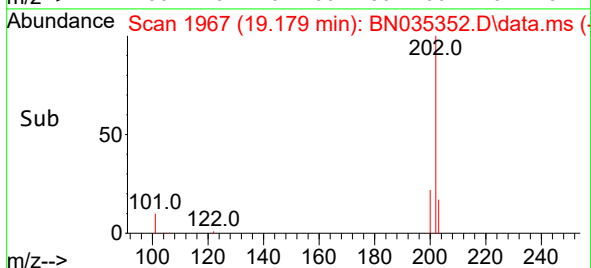
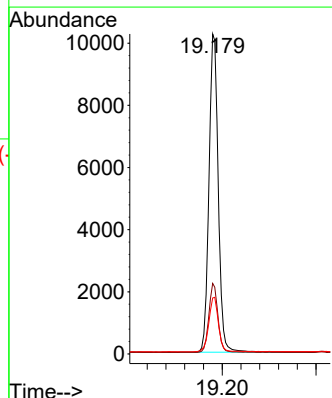
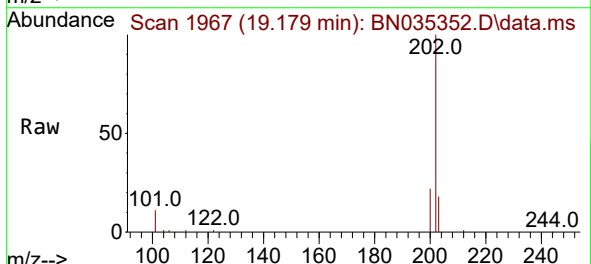
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICCC0.4

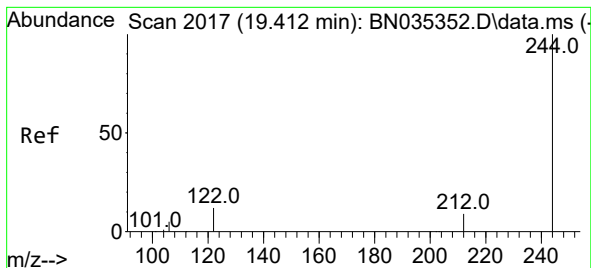
Tgt Ion:240 Resp: 9527  
Ion Ratio Lower Upper  
240 100  
120 9.9 7.9 11.9  
236 28.6 22.9 34.3



#30  
Pyrene  
Concen: 0.443 ng  
RT: 19.179 min Scan# 1967  
Delta R.T. 0.000 min  
Lab File: BN035352.D  
Acq: 27 Nov 2024 16:46

Tgt Ion:202 Resp: 14053  
Ion Ratio Lower Upper  
202 100  
200 21.2 17.0 25.4  
203 17.9 14.3 21.5





#31

Terphenyl-d14

Concen: 0.377 ng

RT: 19.412 min Scan# 2017

Delta R.T. 0.000 min

Lab File: BN035352.D

Acq: 27 Nov 2024 16:46

Instrument :

BNA\_N

ClientSampleId :

SSTDICCC0.4

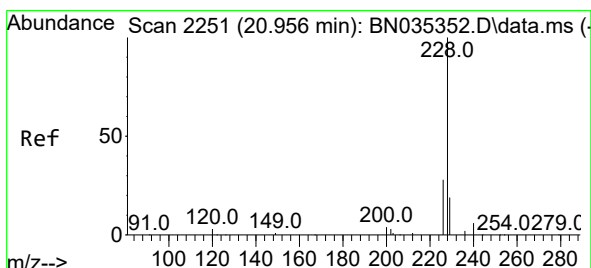
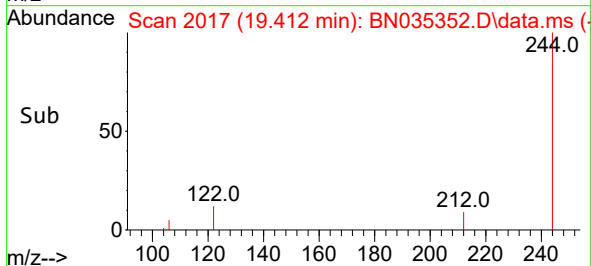
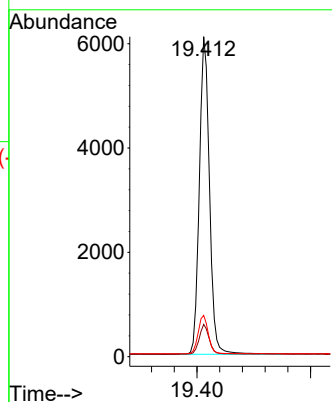
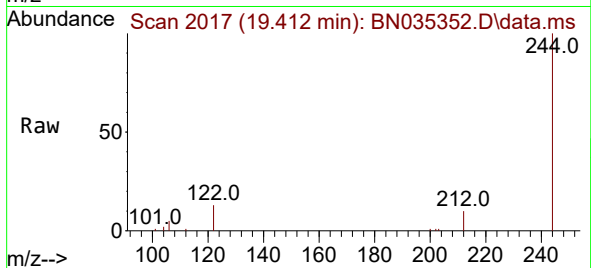
Tgt Ion:244 Resp: 7533

Ion Ratio Lower Upper

244 100

212 10.1 8.1 12.1

122 12.9 10.3 15.5



#32

Benzo(a)anthracene

Concen: 0.389 ng

RT: 20.956 min Scan# 2251

Delta R.T. 0.000 min

Lab File: BN035352.D

Acq: 27 Nov 2024 16:46

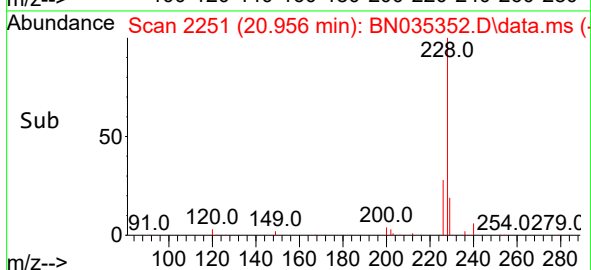
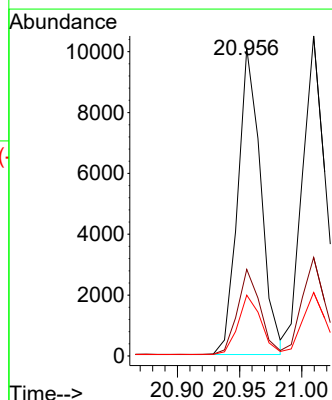
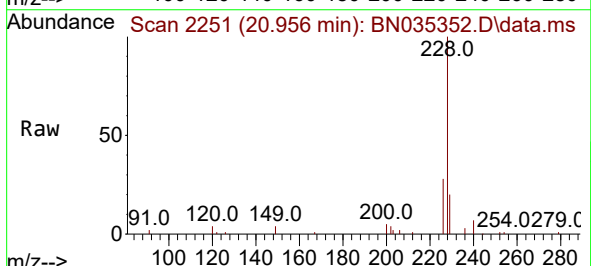
Tgt Ion:228 Resp: 12908

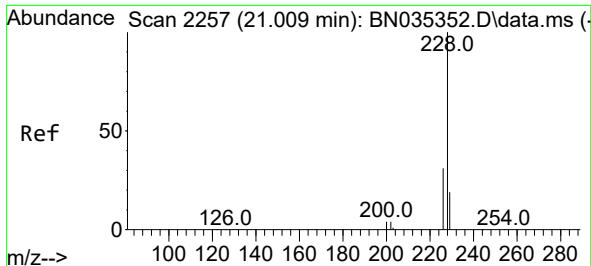
Ion Ratio Lower Upper

228 100

226 28.1 22.5 33.7

229 19.8 15.8 23.8

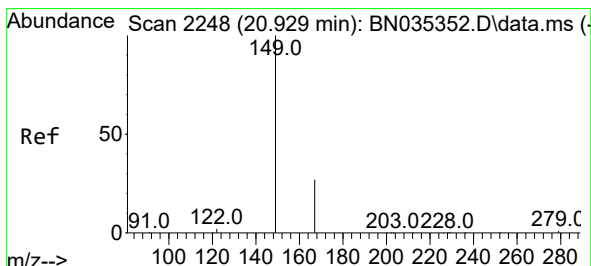
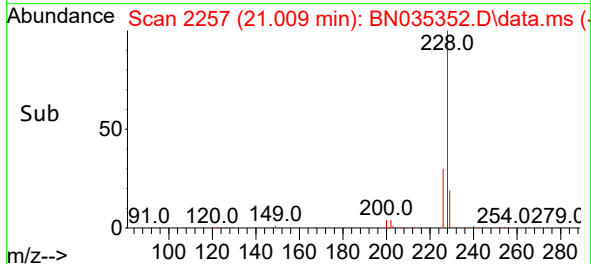
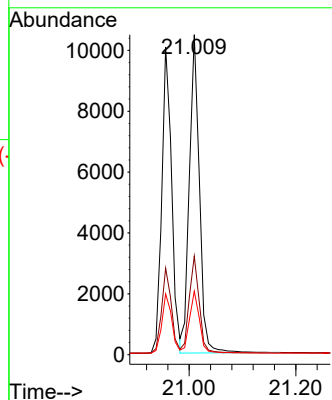
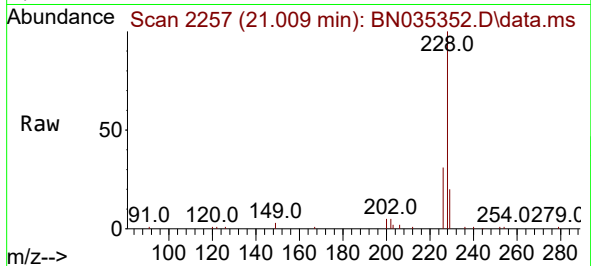




#33  
Chrysene  
Concen: 0.418 ng  
RT: 21.009 min Scan# 21  
Delta R.T. 0.000 min  
Lab File: BN035352.D  
Acq: 27 Nov 2024 16:46

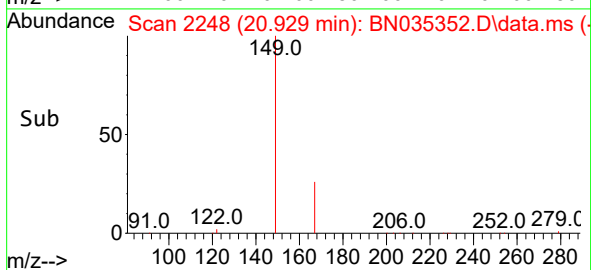
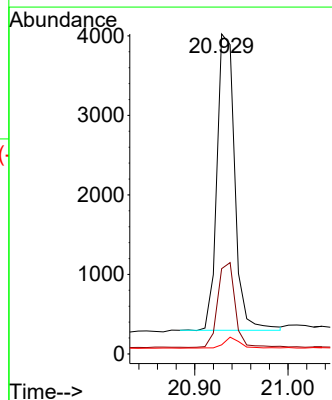
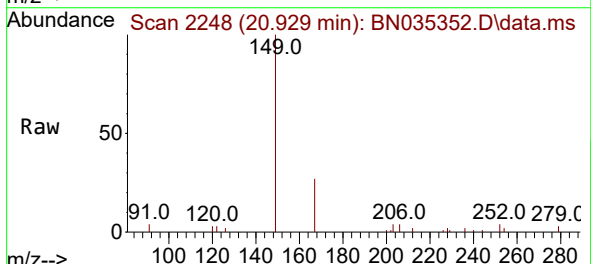
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICCC0.4

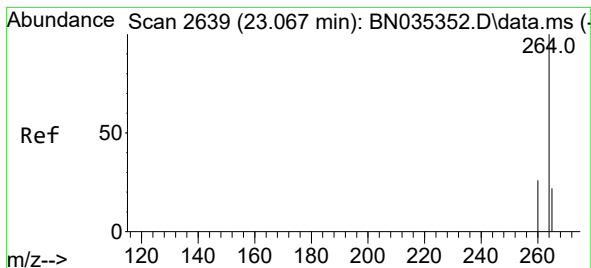
Tgt Ion:228 Resp: 13729  
Ion Ratio Lower Upper  
228 100  
226 30.8 24.6 37.0  
229 19.9 15.9 23.9



#34  
Bis(2-ethylhexyl)phthalate  
Concen: 0.282 ng  
RT: 20.929 min Scan# 2248  
Delta R.T. 0.000 min  
Lab File: BN035352.D  
Acq: 27 Nov 2024 16:46

Tgt Ion:149 Resp: 4912  
Ion Ratio Lower Upper  
149 100  
167 27.8 22.2 33.4  
279 3.4 2.7 4.1





#35

Perylene-d12

Concen: 0.400 ng

RT: 23.067 min Scan# 2639

Delta R.T. 0.000 min

Lab File: BN035352.D

Acq: 27 Nov 2024 16:46

Instrument :

BNA\_N

ClientSampleId :

SSTDICCC0.4

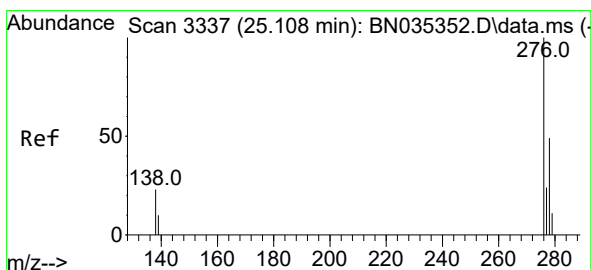
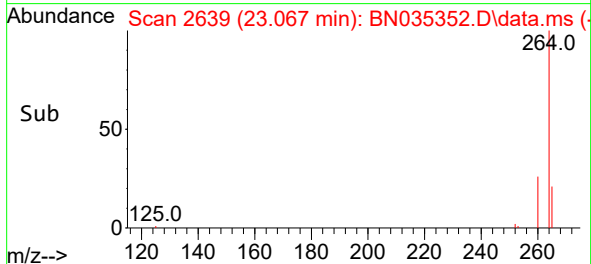
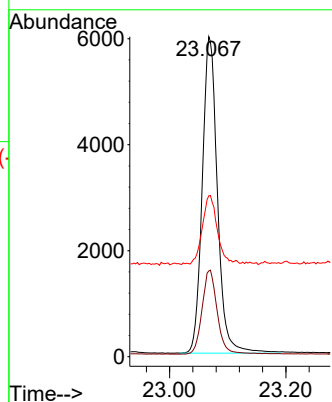
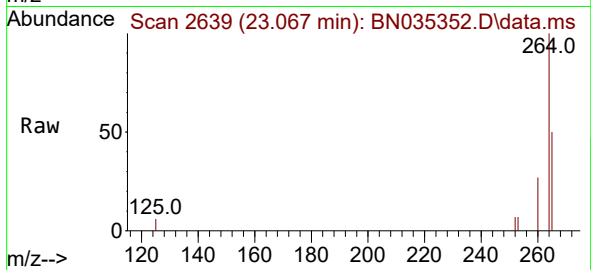
Tgt Ion:264 Resp: 10842

Ion Ratio Lower Upper

264 100

260 26.8 21.4 32.2

265 50.3 40.2 60.4



#36

Indeno(1,2,3-cd)pyrene

Concen: 0.384 ng

RT: 25.108 min Scan# 3337

Delta R.T. 0.000 min

Lab File: BN035352.D

Acq: 27 Nov 2024 16:46

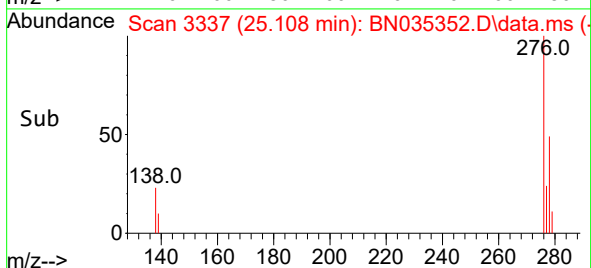
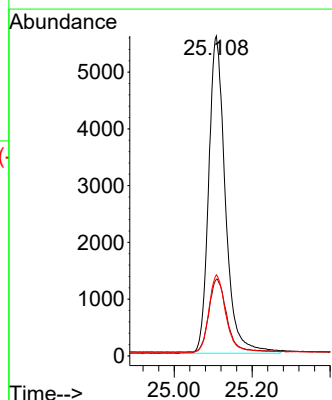
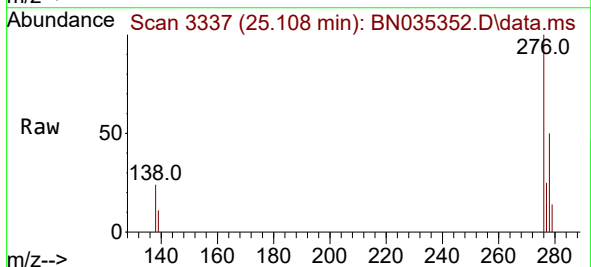
Tgt Ion:276 Resp: 16615

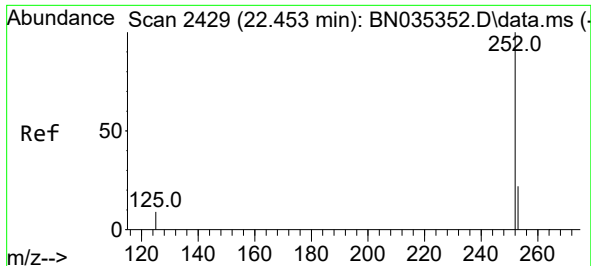
Ion Ratio Lower Upper

276 100

138 24.2 19.4 29.0

277 24.7 19.8 29.6





#37

Benzo(b)fluoranthene

Concen: 0.390 ng

RT: 22.453 min Scan# 2429

Delta R.T. 0.000 min

Lab File: BN035352.D

Acq: 27 Nov 2024 16:46

Instrument :

BNA\_N

ClientSampleId :

SSTDICCC0.4

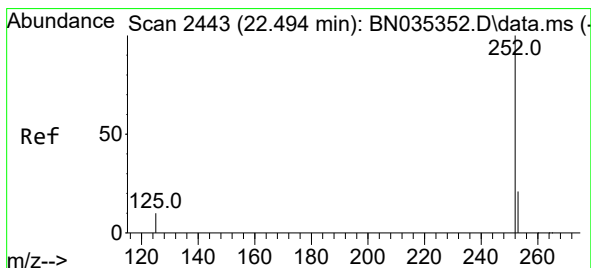
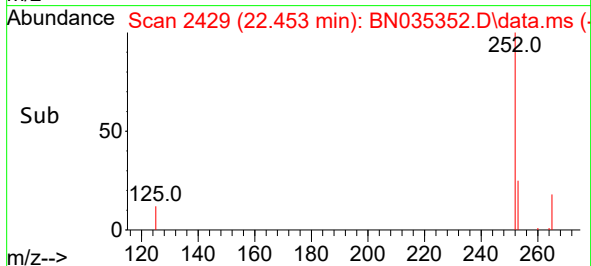
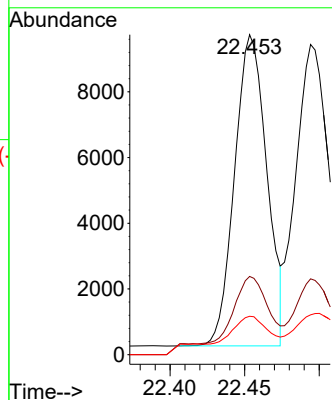
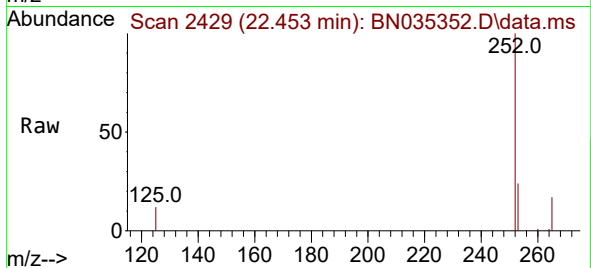
Tgt Ion:252 Resp: 14235

Ion Ratio Lower Upper

252 100

253 24.5 19.6 29.4

125 12.0 9.6 14.4



#38

Benzo(k)fluoranthene

Concen: 0.416 ng

RT: 22.494 min Scan# 2443

Delta R.T. 0.000 min

Lab File: BN035352.D

Acq: 27 Nov 2024 16:46

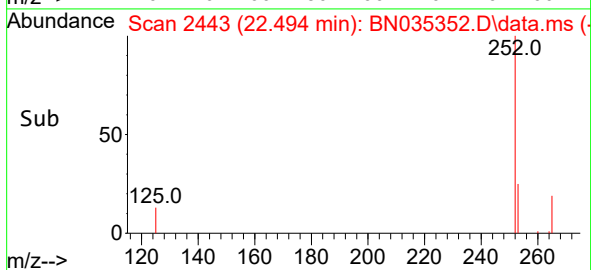
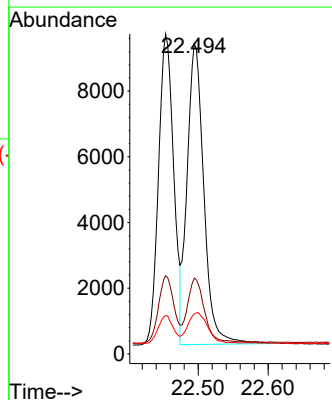
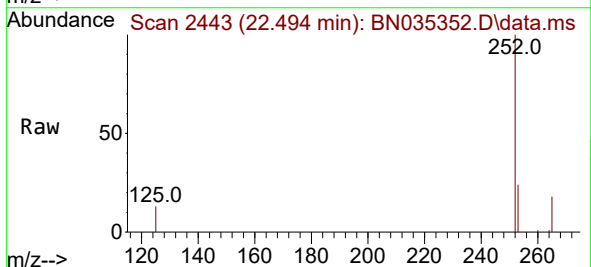
Tgt Ion:252 Resp: 15199

Ion Ratio Lower Upper

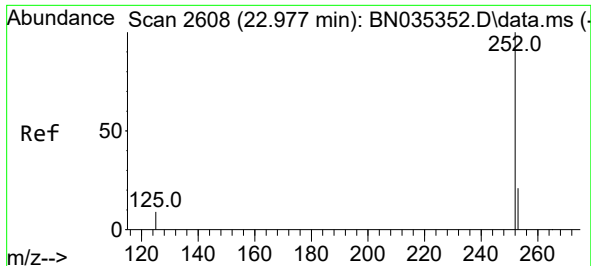
252 100

253 24.4 19.5 29.3

125 12.8 10.2 15.4

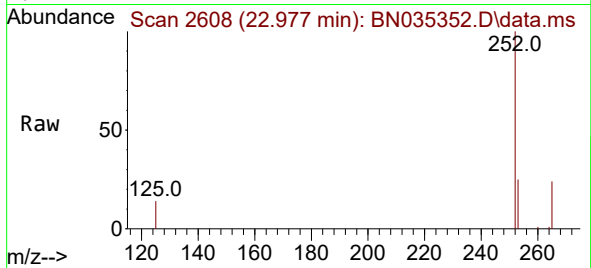




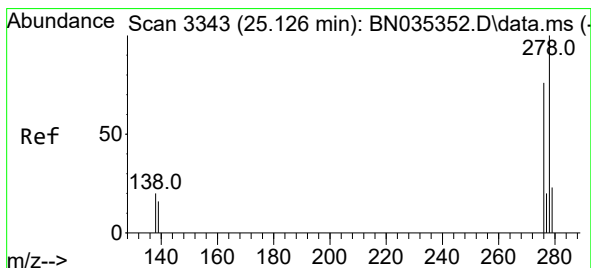
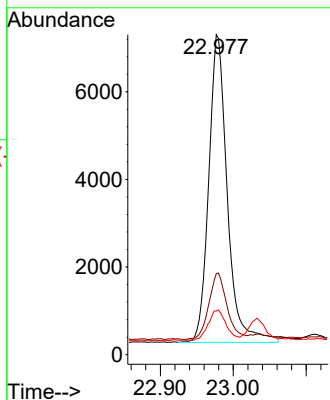


#39  
Benzo(a)pyrene  
Concen: 0.387 ng  
RT: 22.977 min Scan# 2608  
Delta R.T. 0.000 min  
Lab File: BN035352.D  
Acq: 27 Nov 2024 16:46

Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICCC0.4

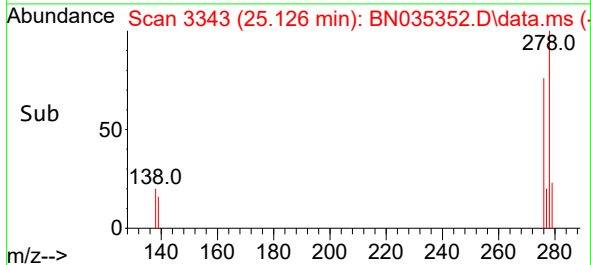
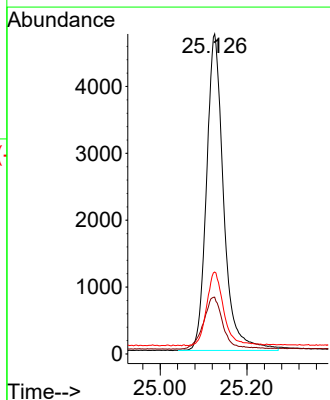
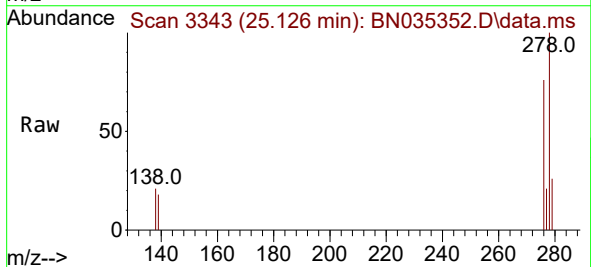


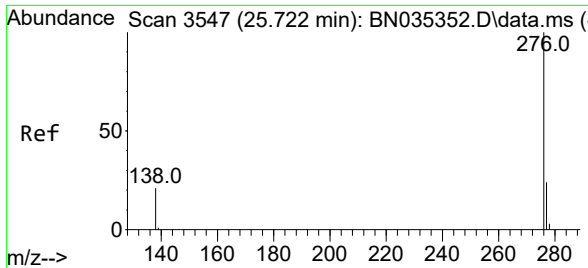
Tgt Ion:252 Resp: 12425  
Ion Ratio Lower Upper  
252 100  
253 25.3 20.2 30.4  
125 13.6 10.9 16.3



#40  
Dibenzo(a,h)anthracene  
Concen: 0.378 ng  
RT: 25.126 min Scan# 3343  
Delta R.T. 0.000 min  
Lab File: BN035352.D  
Acq: 27 Nov 2024 16:46

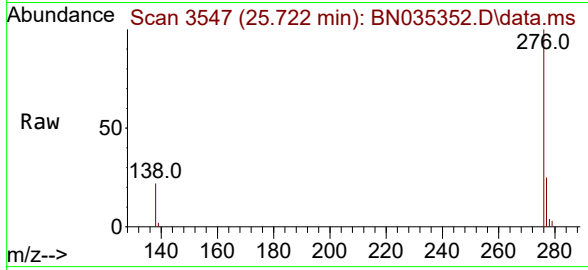
Tgt Ion:278 Resp: 12948  
Ion Ratio Lower Upper  
278 100  
139 17.8 14.2 21.4  
279 25.6 20.5 30.7



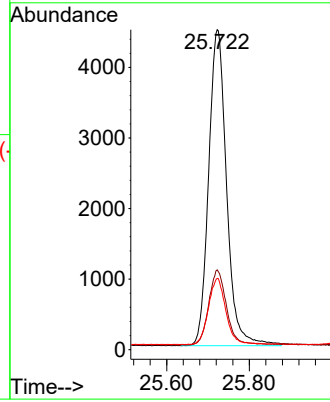
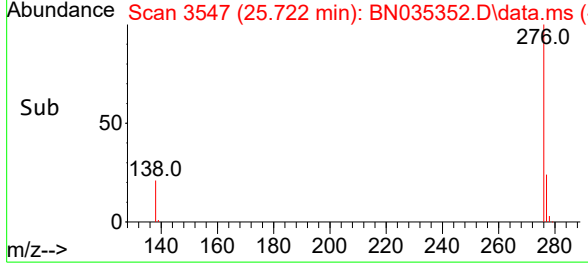


#41  
Benzo(g,h,i)perylene  
Concen: 0.371 ng  
RT: 25.722 min Scan# 31  
Delta R.T. 0.000 min  
Lab File: BN035352.D  
Acq: 27 Nov 2024 16:46

Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICCC0.4



|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 276   | Resp: | 13529 |
| Ion      | Ratio | Lower | Upper |
| 276      | 100   |       |       |
| 277      | 24.9  | 19.9  | 29.9  |
| 138      | 22.3  | 17.8  | 26.8  |



Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN112724\  
 Data File : BN035357.D  
 Acq On : 27 Nov 2024 20:21  
 Operator : RC/JU  
 Sample : SSTDICV0.4  
 Misc :  
 ALS Vial : 10 Sample Multiplier: 1

Instrument :  
 BNA\_N  
 ClientSampleId :  
 ICVBN112724

Quant Time: Nov 27 23:06:03 2024  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\8270-SIM-BN112724.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Wed Nov 27 23:03:24 2024  
 Response via : Initial Calibration

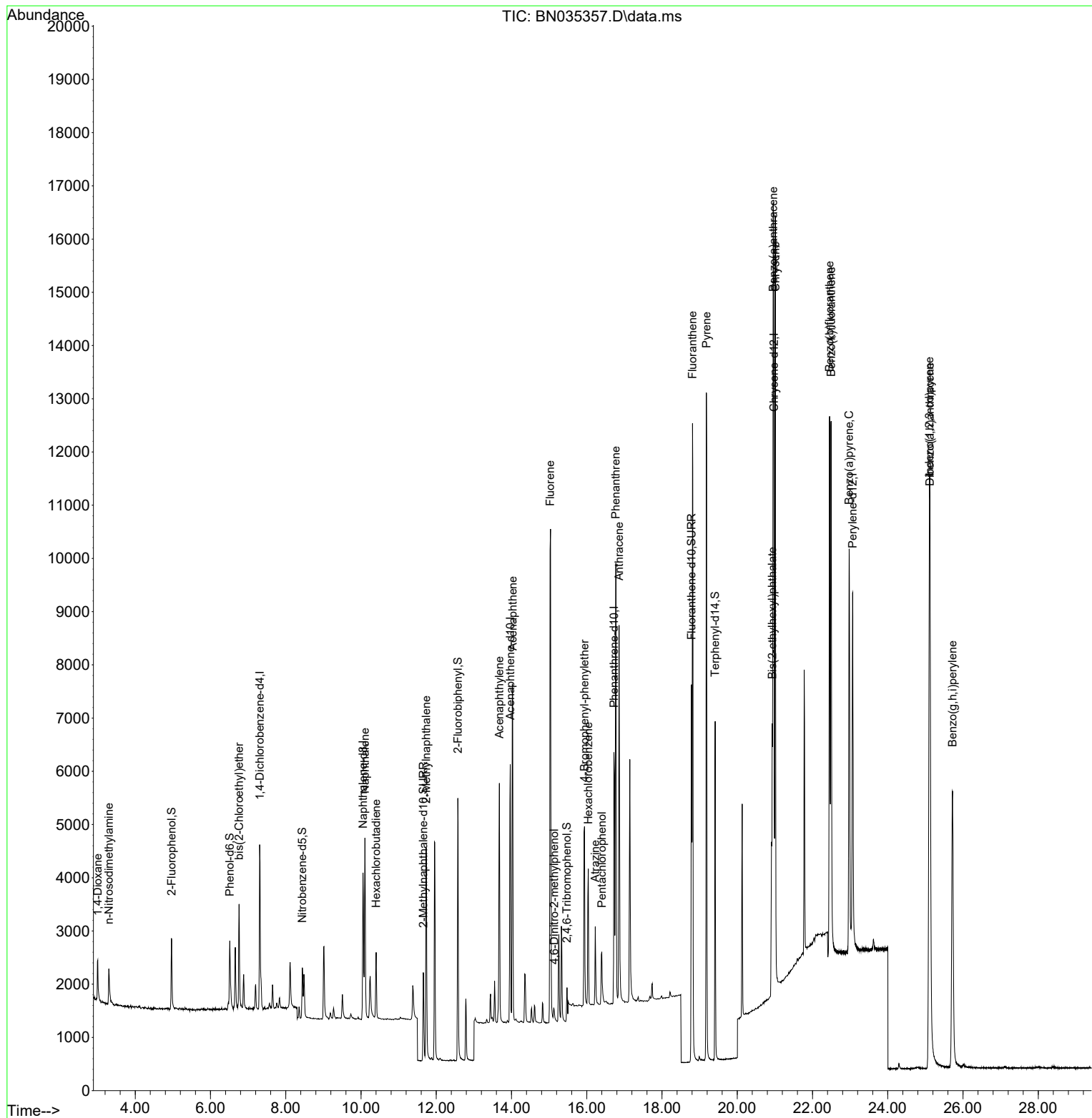
| Compound                      | R.T.   | QIon | Response | Conc  | Units | Dev(Min) |
|-------------------------------|--------|------|----------|-------|-------|----------|
| Internal Standards            |        |      |          |       |       |          |
| 1) 1,4-Dichlorobenzene-d4     | 7.308  | 152  | 1540     | 0.400 | ng    | 0.00     |
| 7) Naphthalene-d8             | 10.052 | 136  | 3904     | 0.400 | ng    | 0.00     |
| 13) Acenaphthene-d10          | 13.967 | 164  | 2879     | 0.400 | ng    | 0.00     |
| 19) Phenanthrene-d10          | 16.723 | 188  | 7350     | 0.400 | ng    | #-0.01   |
| 29) Chrysene-d12              | 20.974 | 240  | 7576     | 0.400 | ng    | 0.00     |
| 35) Perylene-d12              | 23.067 | 264  | 8338     | 0.400 | ng    | 0.00     |
| System Monitoring Compounds   |        |      |          |       |       |          |
| 4) 2-Fluorophenol             | 4.968  | 112  | 1280     | 0.332 | ng    | 0.00     |
| 5) Phenol-d6                  | 6.513  | 99   | 1437     | 0.310 | ng    | 0.00     |
| 8) Nitrobenzene-d5            | 8.440  | 82   | 1017     | 0.427 | ng    | 0.00     |
| 11) 2-Methylnaphthalene-d10   | 11.656 | 152  | 2565     | 0.420 | ng    | 0.00     |
| 14) 2,4,6-Tribromophenol      | 15.475 | 330  | 617      | 0.302 | ng    | 0.00     |
| 15) 2-Fluorobiphenyl          | 12.574 | 172  | 4647     | 0.427 | ng    | 0.00     |
| 27) Fluoranthene-d10          | 18.785 | 212  | 8415     | 0.404 | ng    | 0.00     |
| 31) Terphenyl-d14             | 19.412 | 244  | 6272     | 0.420 | ng    | 0.00     |
| Target Compounds              |        |      |          |       |       |          |
| 2) 1,4-Dioxane                | 3.003  | 88   | 684      | 0.465 | ng    | 99       |
| 3) n-Nitrosodimethylamine     | 3.299  | 42   | 495      | 0.404 | ng    | # 88     |
| 6) bis(2-Chloroethyl)ether    | 6.759  | 93   | 1676     | 0.430 | ng    | 99       |
| 9) Naphthalene                | 10.105 | 128  | 4364     | 0.424 | ng    | 99       |
| 10) Hexachlorobutadiene       | 10.404 | 225  | 1005     | 0.423 | ng    | # 100    |
| 12) 2-Methylnaphthalene       | 11.732 | 142  | 3157     | 0.428 | ng    | 98       |
| 16) Acenaphthylene            | 13.679 | 152  | 5261     | 0.435 | ng    | 100      |
| 17) Acenaphthene              | 14.031 | 154  | 3421     | 0.426 | ng    | 99       |
| 18) Fluorene                  | 15.026 | 166  | 4825     | 0.420 | ng    | 99       |
| 20) 4,6-Dinitro-2-methylph... | 15.132 | 198  | 263      | 0.364 | ng    | # 86     |
| 21) 4-Bromophenyl-phenylether | 15.941 | 248  | 1742     | 0.405 | ng    | 99       |
| 22) Hexachlorobenzene         | 16.040 | 284  | 2151     | 0.426 | ng    | 99       |
| 23) Atrazine                  | 16.227 | 200  | 1227     | 0.401 | ng    | 99       |
| 24) Pentachlorophenol         | 16.400 | 266  | 662      | 0.301 | ng    | # 83     |
| 25) Phenanthrene              | 16.773 | 178  | 8509     | 0.421 | ng    | 100      |
| 26) Anthracene                | 16.860 | 178  | 7849     | 0.430 | ng    | 100      |
| 28) Fluoranthene              | 18.812 | 202  | 10941    | 0.402 | ng    | 100      |
| 30) Pyrene                    | 19.179 | 202  | 11476    | 0.410 | ng    | 100      |
| 32) Benzo(a)anthracene        | 20.956 | 228  | 10934    | 0.413 | ng    | 100      |
| 33) Chrysene                  | 21.009 | 228  | 11926    | 0.436 | ng    | 99       |
| 34) Bis(2-ethylhexyl)phtha... | 20.929 | 149  | 4016     | 0.384 | ng    | 100      |
| 36) Indeno(1,2,3-cd)pyrene    | 25.105 | 276  | 14433    | 0.443 | ng    | 99       |
| 37) Benzo(b)fluoranthene      | 22.453 | 252  | 12988    | 0.426 | ng    | 99       |
| 38) Benzo(k)fluoranthene      | 22.494 | 252  | 12669    | 0.422 | ng    | 99       |
| 39) Benzo(a)pyrene            | 22.974 | 252  | 11094    | 0.442 | ng    | 99       |
| 40) Dibenzo(a,h)anthracene    | 25.123 | 278  | 11141    | 0.433 | ng    | 100      |
| 41) Benzo(g,h,i)perylene      | 25.722 | 276  | 10870    | 0.404 | ng    | 99       |

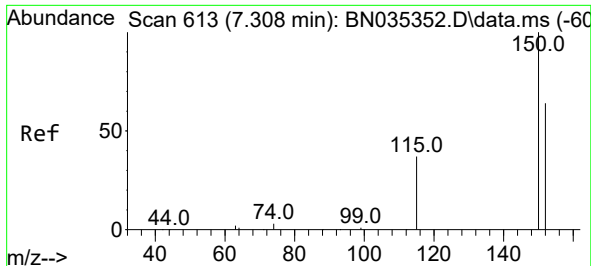
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Data File : BN035357.D  
Acq On : 27 Nov 2024 20:21  
Operator : RC/JU  
Sample : SSTDICV0.4  
Misc :  
ALS Vial : 10 Sample Multiplier: 1

Instrument :  
BNA\_N  
ClientSampleId :  
ICVBN112724

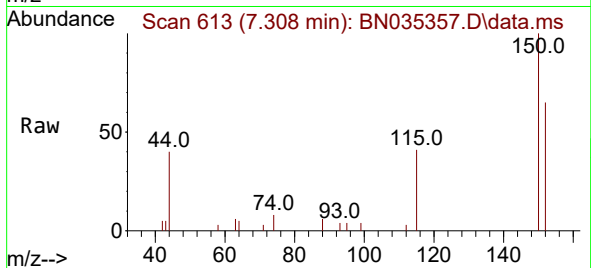
Quant Time: Nov 27 23:06:03 2024  
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Wed Nov 27 23:03:24 2024  
Response via : Initial Calibration



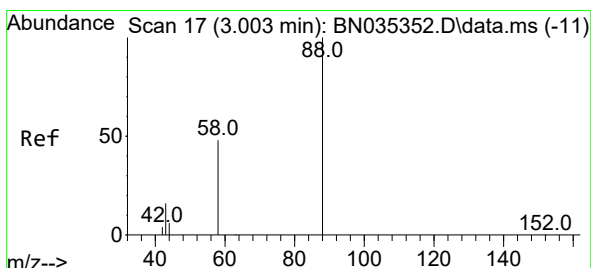
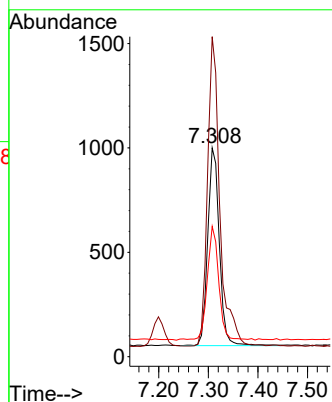
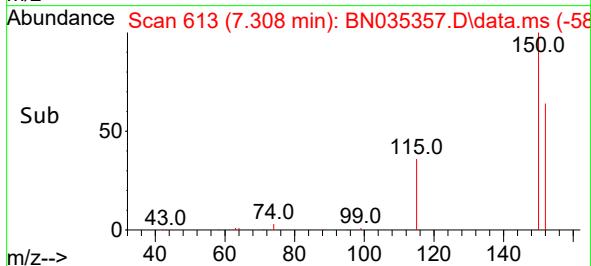


#1  
 1,4-Dichlorobenzene-d4  
 Concen: 0.400 ng  
 RT: 7.308 min Scan# 61  
 Delta R.T. -0.000 min  
 Lab File: BN035357.D  
 Acq: 27 Nov 2024 20:21

Instrument :  
 BNA\_N  
 ClientSampleId :  
 ICVBN112724

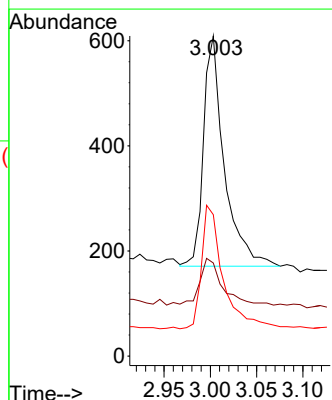
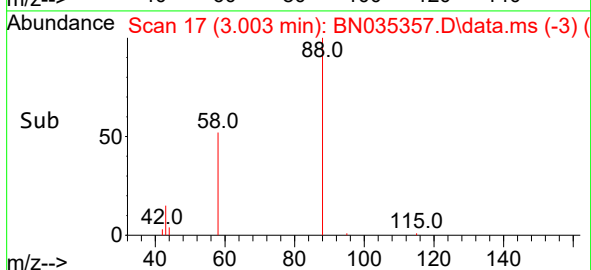
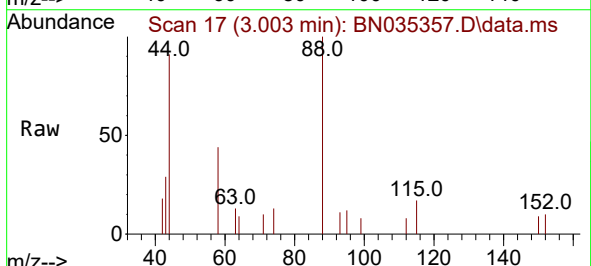


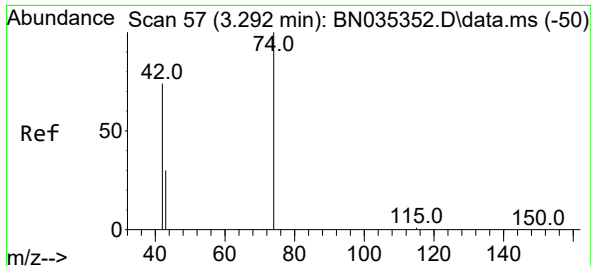
Tgt Ion:152 Resp: 1540  
 Ion Ratio Lower Upper  
 152 100  
 150 153.3 124.0 186.0  
 115 62.4 49.6 74.4



#2  
 1,4-Dioxane  
 Concen: 0.465 ng  
 RT: 3.003 min Scan# 17  
 Delta R.T. -0.000 min  
 Lab File: BN035357.D  
 Acq: 27 Nov 2024 20:21

Tgt Ion: 88 Resp: 684  
 Ion Ratio Lower Upper  
 88 100  
 43 21.8 17.2 25.8  
 58 56.0 44.5 66.7

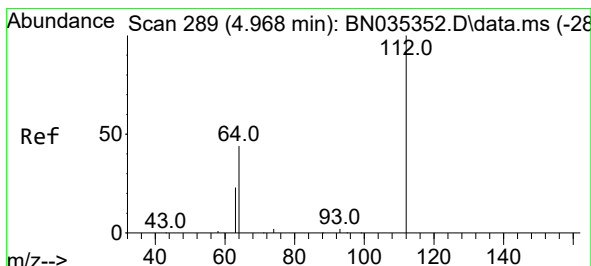
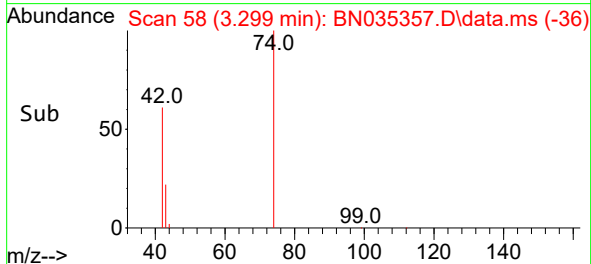
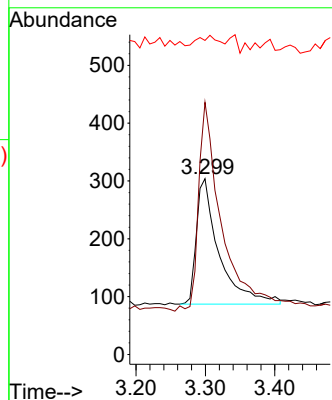
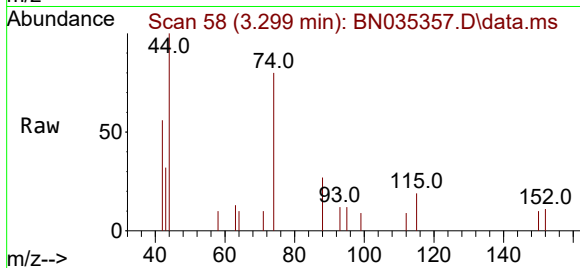




#3  
n-Nitrosodimethylamine  
Concen: 0.404 ng  
RT: 3.299 min Scan# 51  
Delta R.T. 0.007 min  
Lab File: BN035357.D  
Acq: 27 Nov 2024 20:21

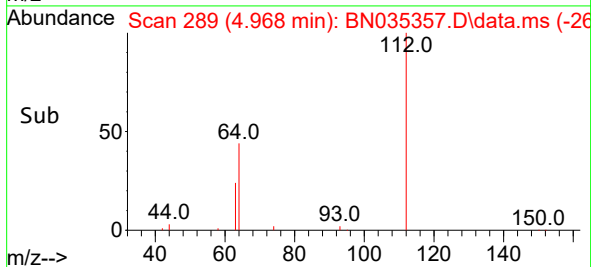
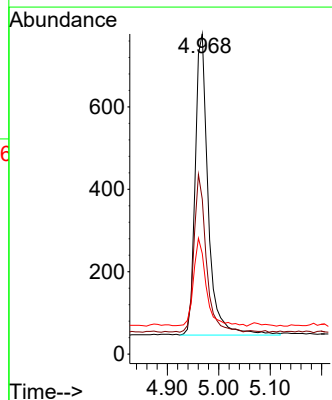
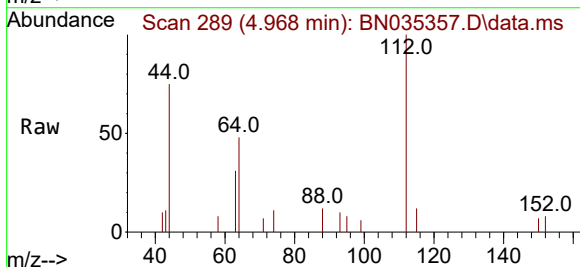
Instrument :  
BNA\_N  
ClientSampleId :  
ICVBN112724

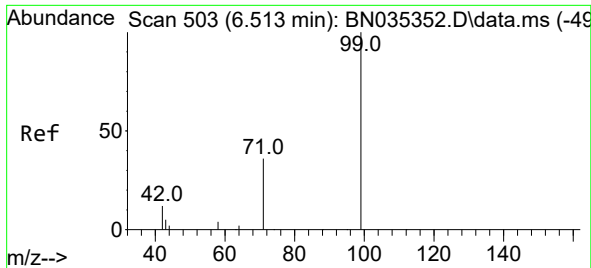
Tgt Ion: 42 Resp: 495  
Ion Ratio Lower Upper  
42 100  
74 172.1 124.9 187.3  
44 6.3 2.2 3.4#



#4  
2-Fluorophenol  
Concen: 0.332 ng  
RT: 4.968 min Scan# 289  
Delta R.T. -0.000 min  
Lab File: BN035357.D  
Acq: 27 Nov 2024 20:21

Tgt Ion: 112 Resp: 1280  
Ion Ratio Lower Upper  
112 100  
64 49.0 39.8 59.8  
63 28.4 21.0 31.6

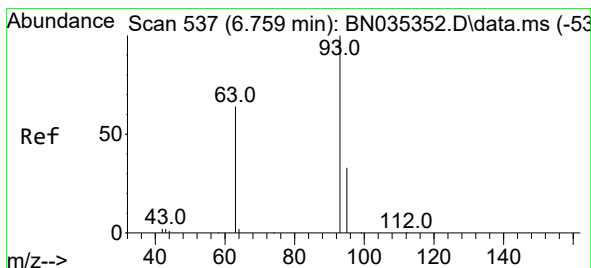
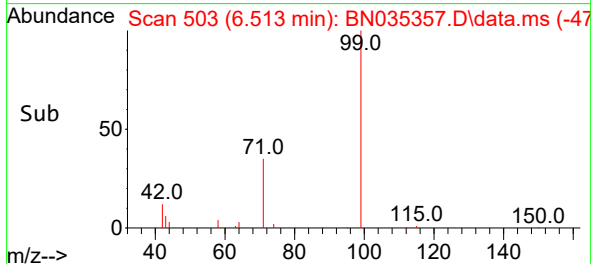
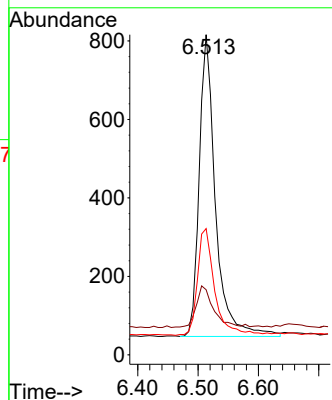
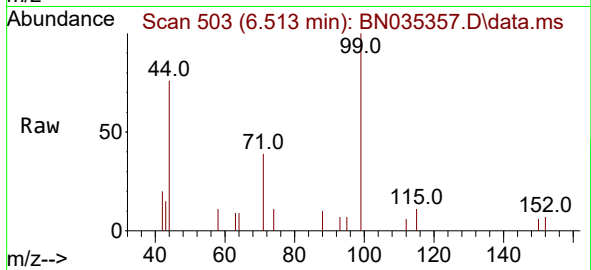




#5  
Phenol-d6  
Concen: 0.310 ng  
RT: 6.513 min Scan# 503  
Delta R.T. -0.000 min  
Lab File: BN035357.D  
Acq: 27 Nov 2024 20:21

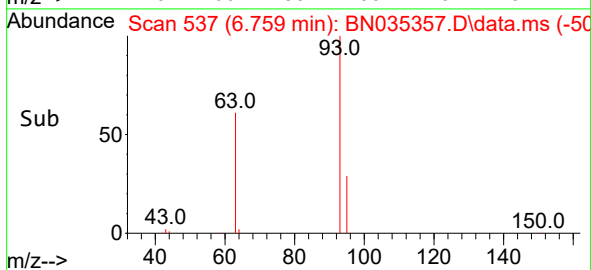
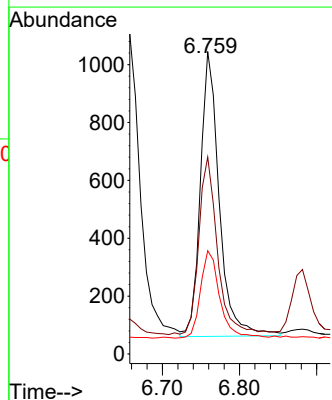
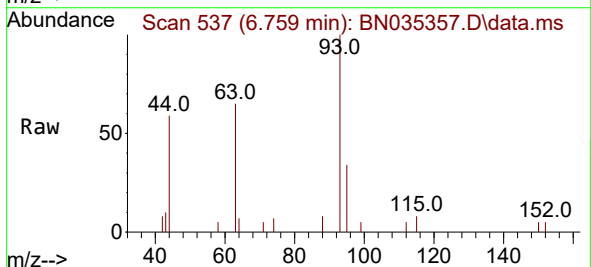
Instrument :  
BNA\_N  
ClientSampleId :  
ICVBN112724

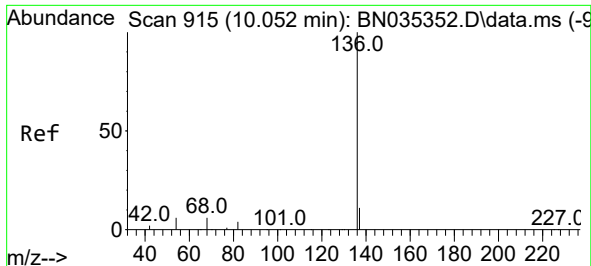
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 99    | Resp: | 1437  |
| Ion      | Ratio | Lower | Upper |
| 99       | 100   |       |       |
| 42       | 13.9  | 11.4  | 17.2  |
| 71       | 37.2  | 29.3  | 43.9  |



#6  
bis(2-Chloroethyl)ether  
Concen: 0.430 ng  
RT: 6.759 min Scan# 537  
Delta R.T. -0.000 min  
Lab File: BN035357.D  
Acq: 27 Nov 2024 20:21

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 93    | Resp: | 1676  |
| Ion      | Ratio | Lower | Upper |
| 93       | 100   |       |       |
| 63       | 62.1  | 50.4  | 75.6  |
| 95       | 31.4  | 25.7  | 38.5  |

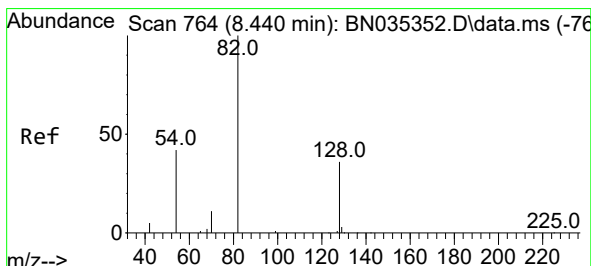
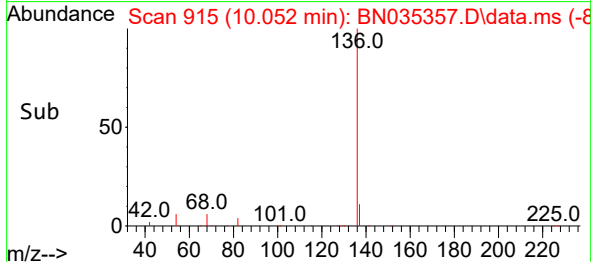
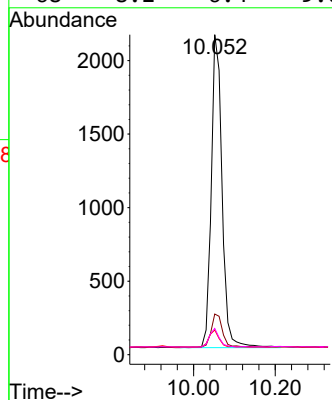
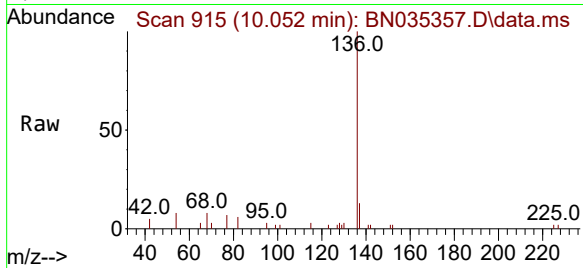




#7  
Naphthalene-d8  
Concen: 0.400 ng  
RT: 10.052 min Scan# 915  
Delta R.T. -0.000 min  
Lab File: BN035357.D  
Acq: 27 Nov 2024 20:21

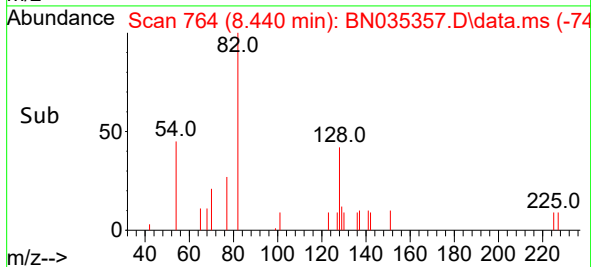
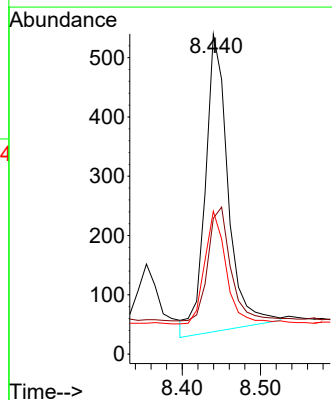
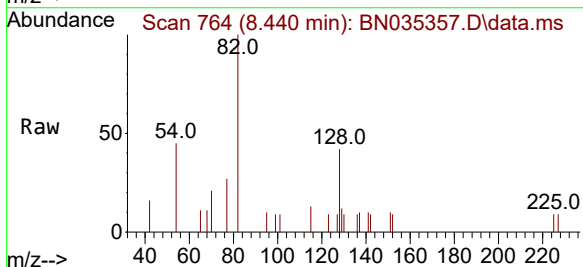
Instrument :  
BNA\_N  
ClientSampleId :  
ICVBN112724

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 136   | Resp: | 3904  |
| Ion      | Ratio | Lower | Upper |
| 136      | 100   |       |       |
| 137      | 12.7  | 10.2  | 15.2  |
| 54       | 7.7   | 6.1   | 9.1   |
| 68       | 8.2   | 6.4   | 9.6   |

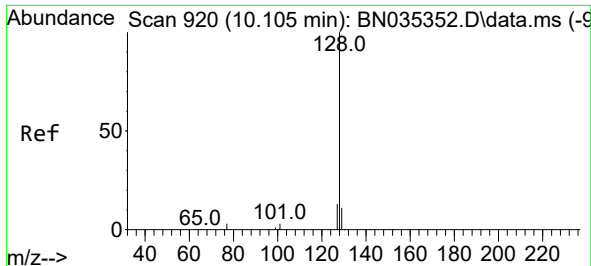


#8  
Nitrobenzene-d5  
Concen: 0.427 ng  
RT: 8.440 min Scan# 764  
Delta R.T. -0.000 min  
Lab File: BN035357.D  
Acq: 27 Nov 2024 20:21

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 82    | Resp: | 1017  |
| Ion      | Ratio | Lower | Upper |
| 82       | 100   |       |       |
| 128      | 42.4  | 33.4  | 50.0  |
| 54       | 44.6  | 36.7  | 55.1  |



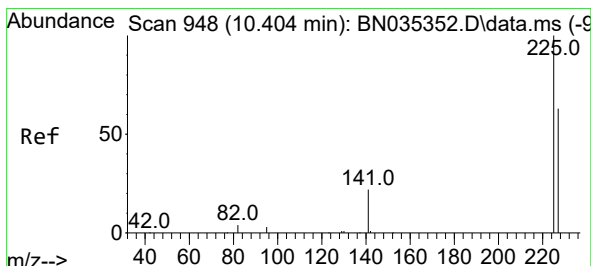
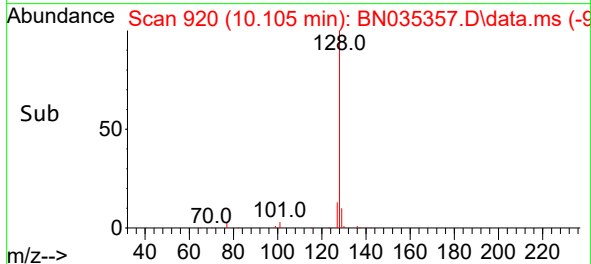
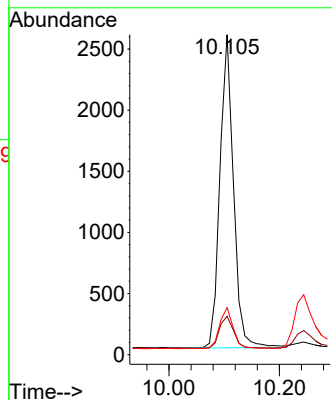
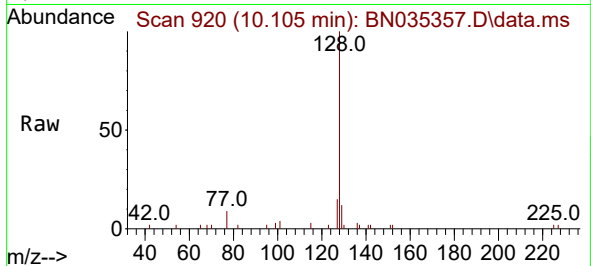




#9  
Naphthalene  
Concen: 0.424 ng  
RT: 10.105 min Scan# 912  
Delta R.T. -0.000 min  
Lab File: BN035357.D  
Acq: 27 Nov 2024 20:21

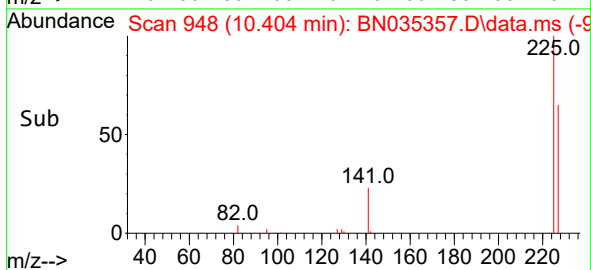
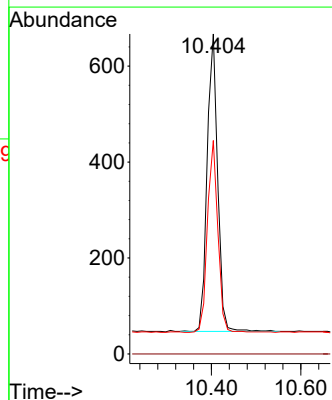
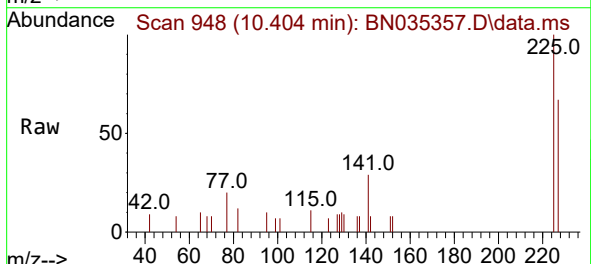
Instrument :  
BNA\_N  
ClientSampleId :  
ICVBN112724

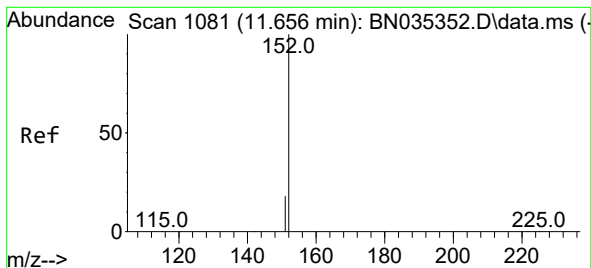
Tgt Ion:128 Resp: 4364  
Ion Ratio Lower Upper  
128 100  
129 12.0 9.8 14.6  
127 14.7 11.4 17.2



#10  
Hexachlorobutadiene  
Concen: 0.423 ng  
RT: 10.404 min Scan# 948  
Delta R.T. -0.000 min  
Lab File: BN035357.D  
Acq: 27 Nov 2024 20:21

Tgt Ion:225 Resp: 1005  
Ion Ratio Lower Upper  
225 100  
223 0.0 0.0 0.0  
227 64.3 51.3 76.9

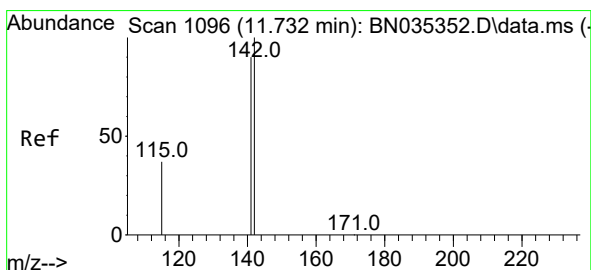
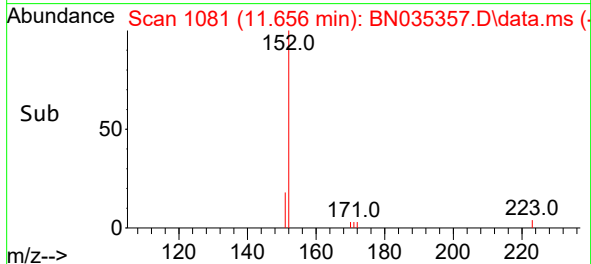
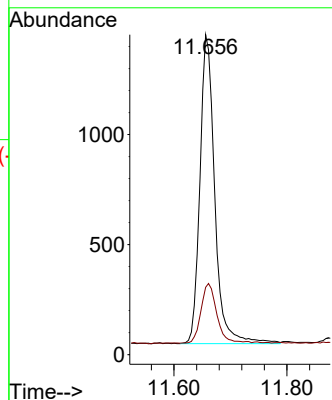
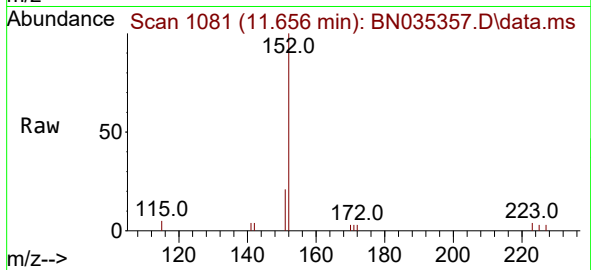




#11  
2-Methylnaphthalene-d10  
Concen: 0.420 ng  
RT: 11.656 min Scan# 1081  
Delta R.T. -0.000 min  
Lab File: BN035357.D  
Acq: 27 Nov 2024 20:21

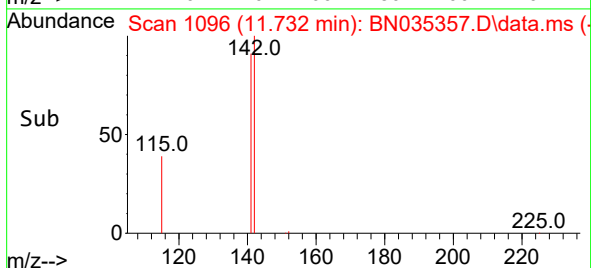
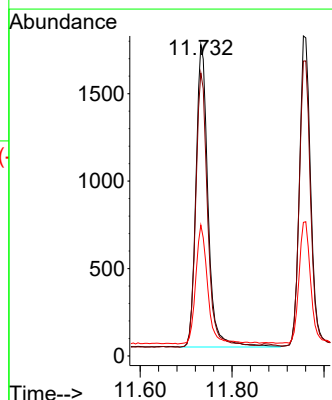
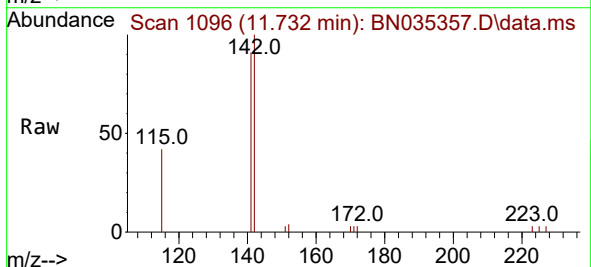
Instrument :  
BNA\_N  
ClientSampleId :  
ICVBN112724

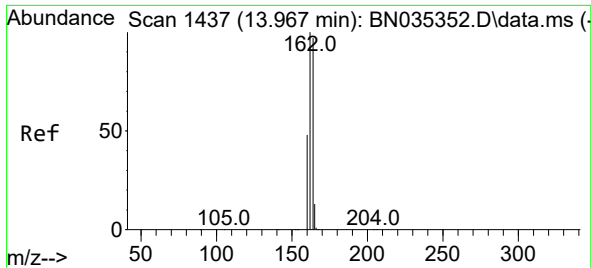
Tgt Ion:152 Resp: 2565  
Ion Ratio Lower Upper  
152 100  
151 20.5 16.6 25.0



#12  
2-Methylnaphthalene  
Concen: 0.428 ng  
RT: 11.732 min Scan# 1096  
Delta R.T. -0.000 min  
Lab File: BN035357.D  
Acq: 27 Nov 2024 20:21

Tgt Ion:142 Resp: 3157  
Ion Ratio Lower Upper  
142 100  
141 90.9 72.2 108.4  
115 42.0 31.4 47.0

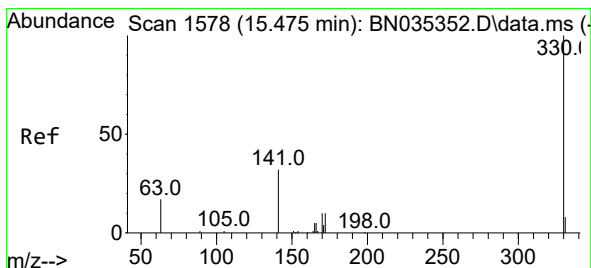
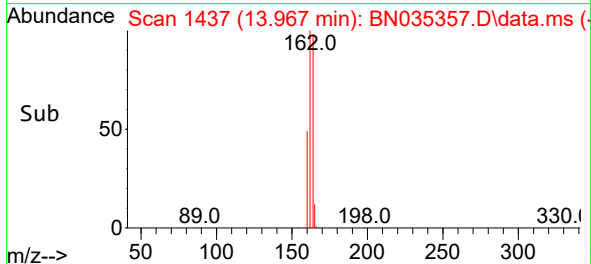
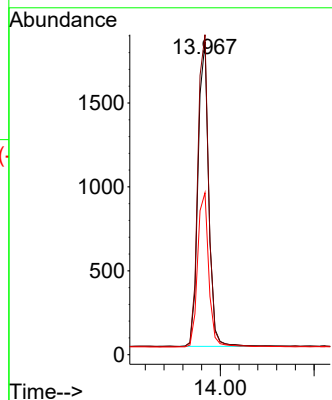
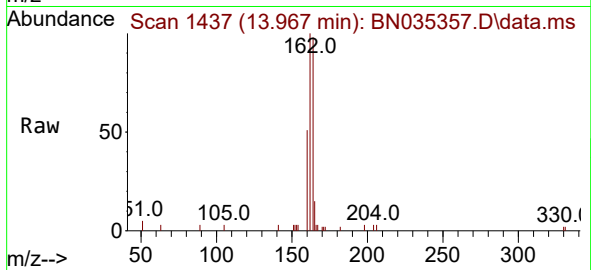




#13  
Acenaphthene-d10  
Concen: 0.400 ng  
RT: 13.967 min Scan# 1437  
Delta R.T. -0.000 min  
Lab File: BN035357.D  
Acq: 27 Nov 2024 20:21

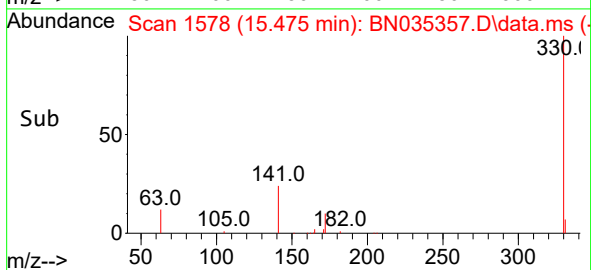
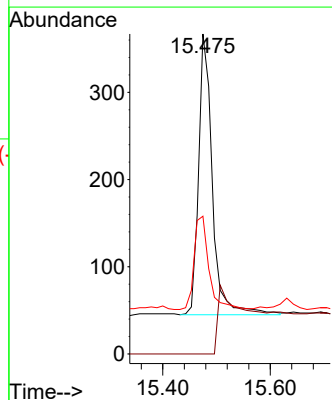
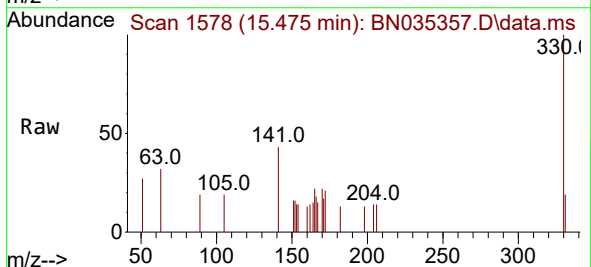
Instrument :  
BNA\_N  
ClientSampleId :  
ICVBN112724

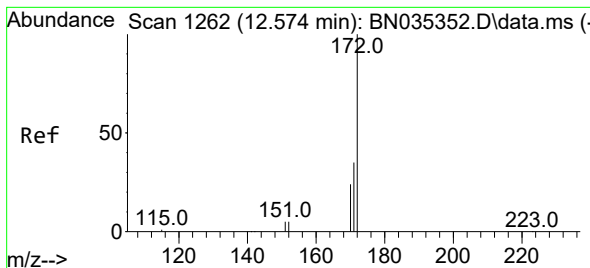
Tgt Ion:164 Resp: 2879  
Ion Ratio Lower Upper  
164 100  
162 102.3 82.2 123.2  
160 51.8 40.1 60.1



#14  
2,4,6-Tribromophenol  
Concen: 0.302 ng  
RT: 15.475 min Scan# 1578  
Delta R.T. -0.000 min  
Lab File: BN035357.D  
Acq: 27 Nov 2024 20:21

Tgt Ion:330 Resp: 617  
Ion Ratio Lower Upper  
330 100  
332 0.0 0.0 0.0  
141 34.7 26.6 40.0

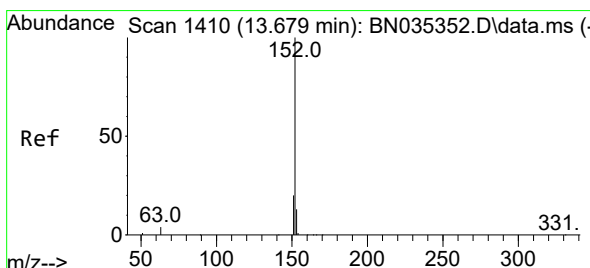
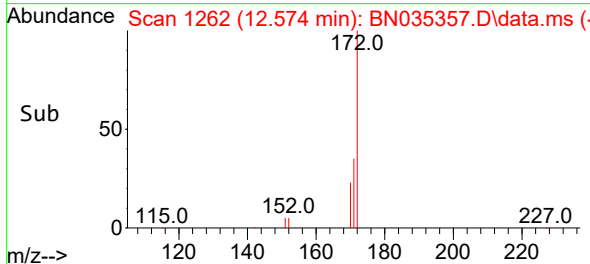
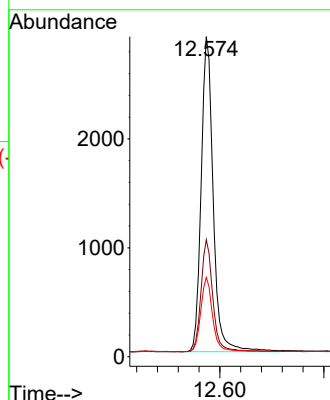
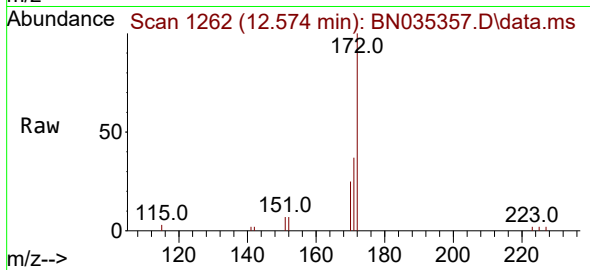




#15  
2-Fluorobiphenyl  
Concen: 0.427 ng  
RT: 12.574 min Scan# 11  
Delta R.T. -0.000 min  
Lab File: BN035357.D  
Acq: 27 Nov 2024 20:21

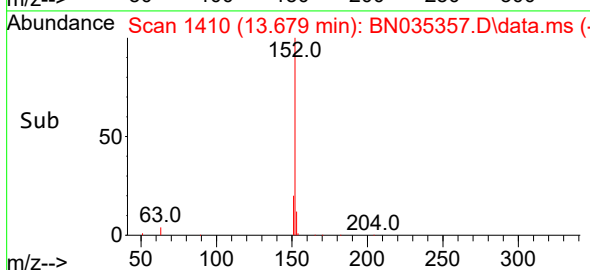
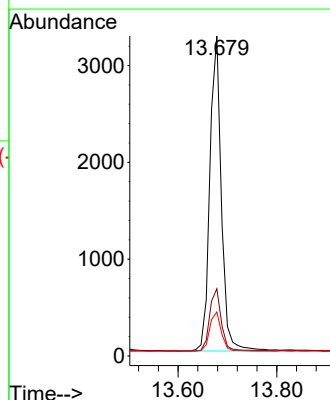
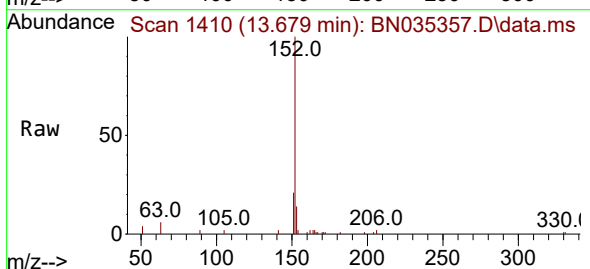
Instrument :  
BNA\_N  
ClientSampleId :  
ICVBN112724

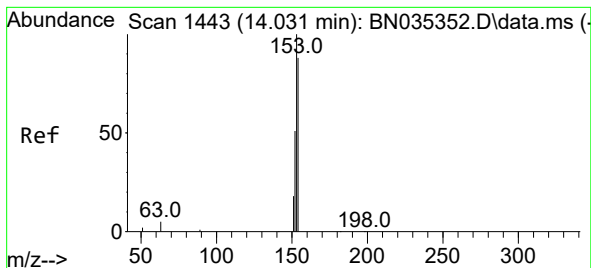
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 172   | Resp: | 4647  |
| Ion      | Ratio | Lower | Upper |
| 172      | 100   |       |       |
| 171      | 36.5  | 29.0  | 43.4  |
| 170      | 24.7  | 19.8  | 29.8  |



#16  
Acenaphthylene  
Concen: 0.435 ng  
RT: 13.679 min Scan# 1410  
Delta R.T. -0.000 min  
Lab File: BN035357.D  
Acq: 27 Nov 2024 20:21

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 152   | Resp: | 5261  |
| Ion      | Ratio | Lower | Upper |
| 152      | 100   |       |       |
| 151      | 20.1  | 16.2  | 24.2  |
| 153      | 12.7  | 10.4  | 15.6  |





#17

Acenaphthene

Concen: 0.426 ng

RT: 14.031 min Scan# 1443

Delta R.T. -0.000 min

Lab File: BN035357.D

Acq: 27 Nov 2024 20:21

Instrument :

BNA\_N

ClientSampleId :

ICVBN112724

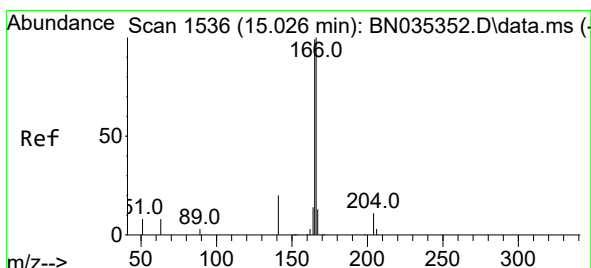
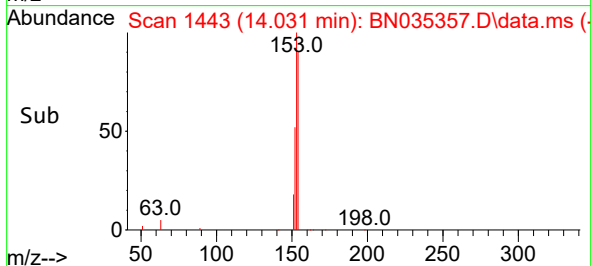
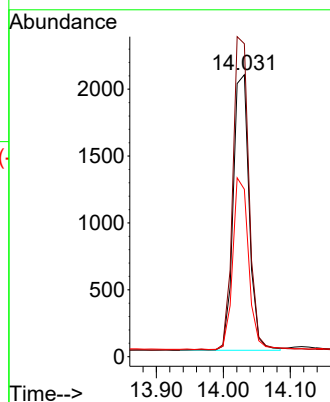
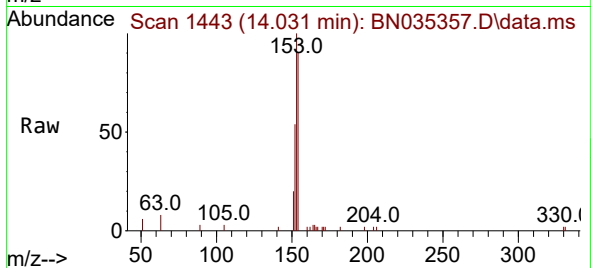
Tgt Ion:154 Resp: 3421

Ion Ratio Lower Upper

154 100

153 115.4 92.6 139.0

152 61.9 49.0 73.6



#18

Fluorene

Concen: 0.420 ng

RT: 15.026 min Scan# 1536

Delta R.T. -0.000 min

Lab File: BN035357.D

Acq: 27 Nov 2024 20:21

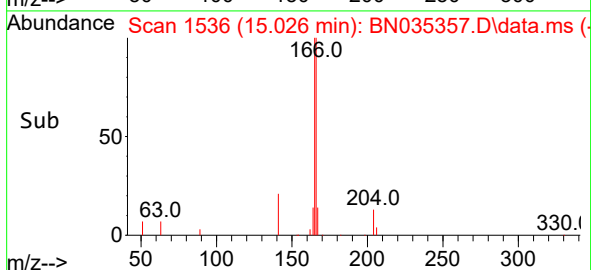
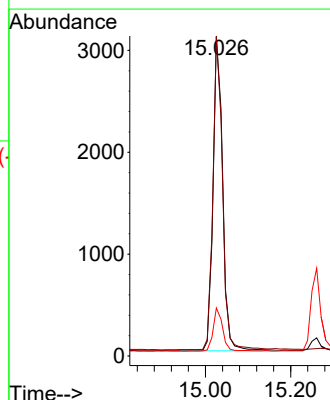
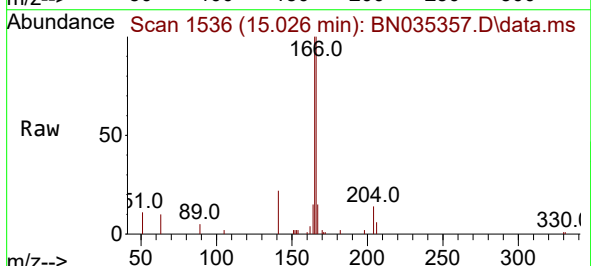
Tgt Ion:166 Resp: 4825

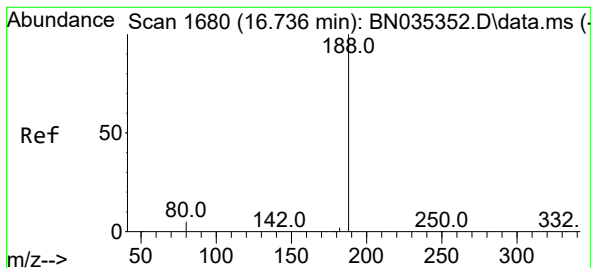
Ion Ratio Lower Upper

166 100

165 98.4 79.7 119.5

167 13.6 10.8 16.2





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 16.723 min Scan# 1

Delta R.T. -0.012 min

Lab File: BN035357.D

Acq: 27 Nov 2024 20:21

Instrument :

BNA\_N

ClientSampleId :

ICVBN112724

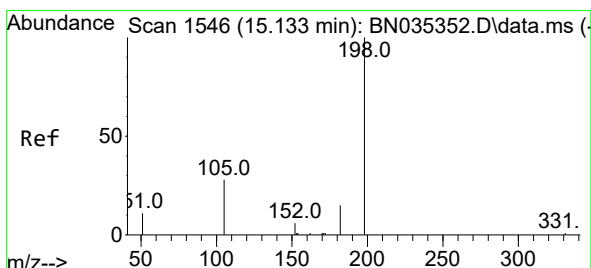
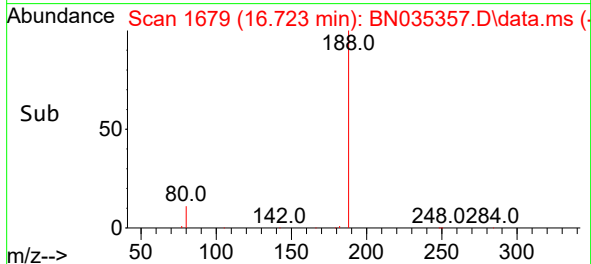
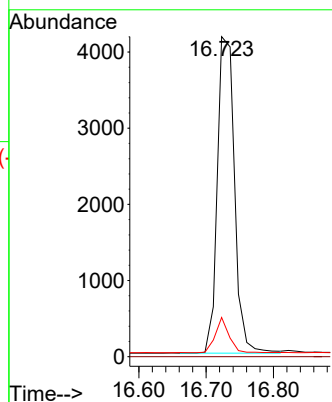
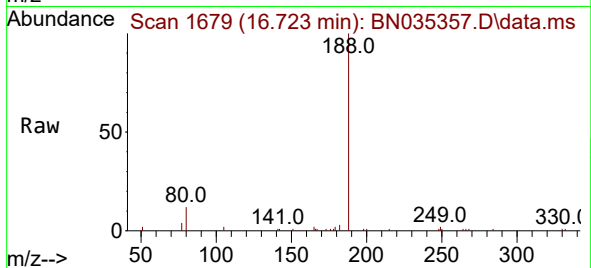
Tgt Ion:188 Resp: 7350

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 12.2 4.6 6.8#



#20

4,6-Dinitro-2-methylphenol

Concen: 0.364 ng

RT: 15.132 min Scan# 1546

Delta R.T. -0.001 min

Lab File: BN035357.D

Acq: 27 Nov 2024 20:21

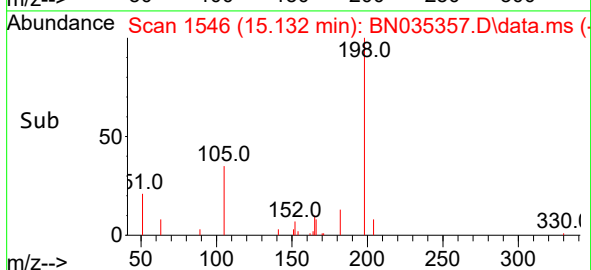
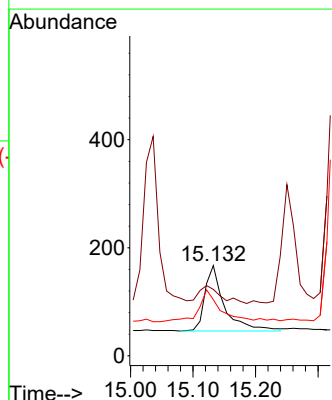
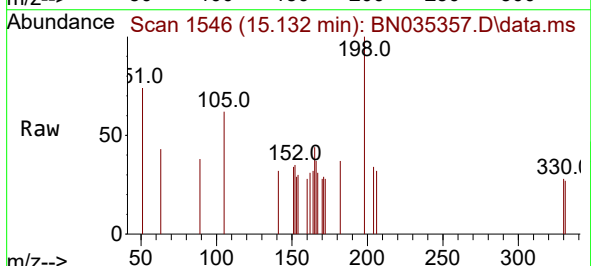
Tgt Ion:198 Resp: 263

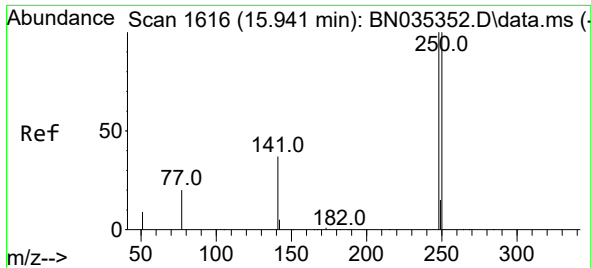
Ion Ratio Lower Upper

198 100

51 73.7 46.5 69.7#

105 62.3 45.3 67.9

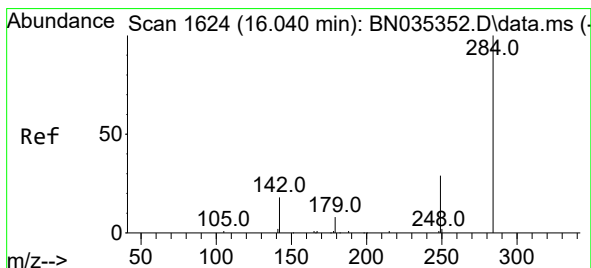
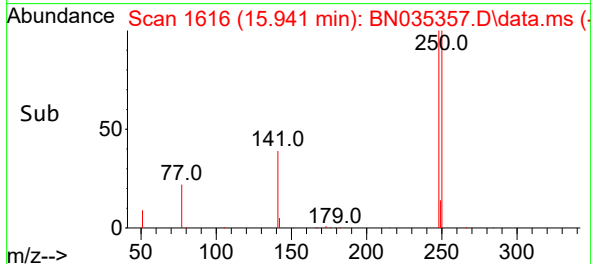
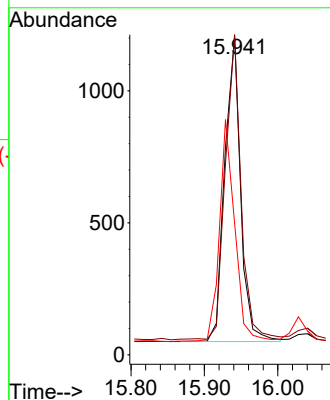
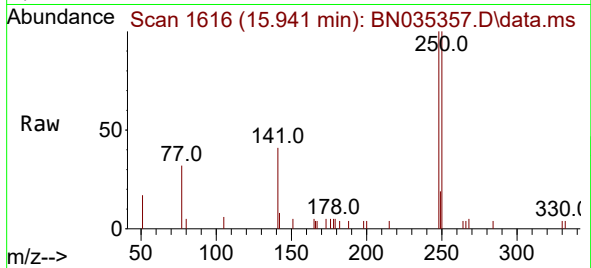




#21  
4-Bromophenyl-phenylether  
Concen: 0.405 ng  
RT: 15.941 min Scan# 1616  
Delta R.T. -0.000 min  
Lab File: BN035357.D  
Acq: 27 Nov 2024 20:21

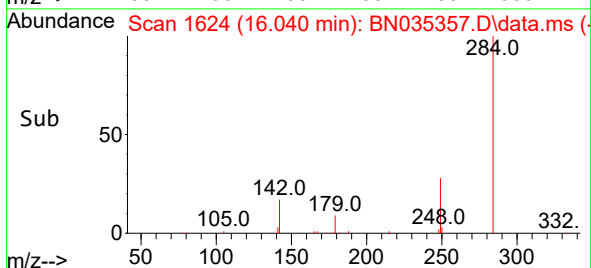
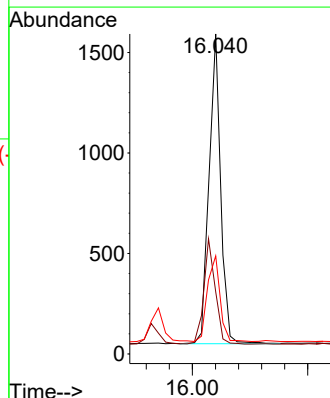
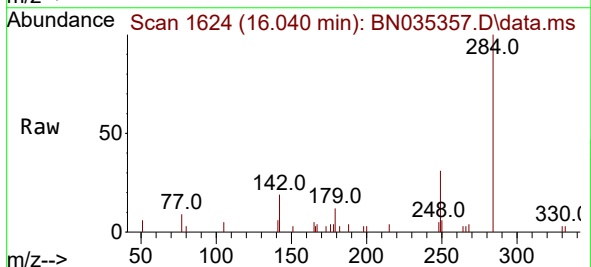
Instrument :  
BNA\_N  
ClientSampleId :  
ICVBN112724

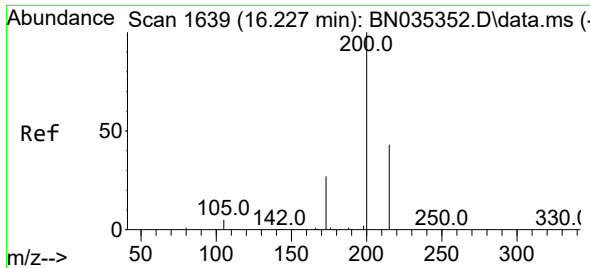
Tgt Ion:248 Resp: 1742  
Ion Ratio Lower Upper  
248 100  
250 100.3 80.6 120.8  
141 41.2 31.5 47.3



#22  
Hexachlorobenzene  
Concen: 0.426 ng  
RT: 16.040 min Scan# 1624  
Delta R.T. -0.000 min  
Lab File: BN035357.D  
Acq: 27 Nov 2024 20:21

Tgt Ion:284 Resp: 2151  
Ion Ratio Lower Upper  
284 100  
142 33.5 26.7 40.1  
249 30.0 24.6 36.8

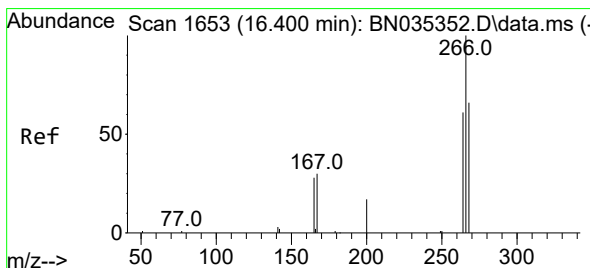
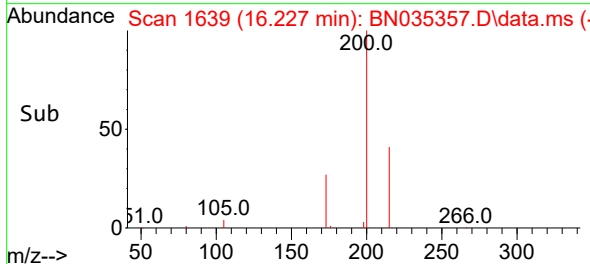
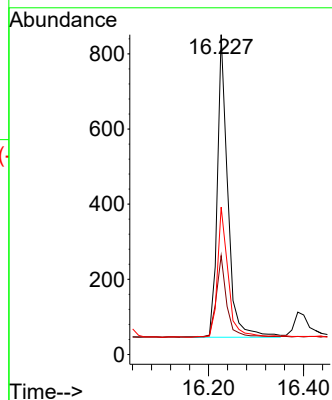
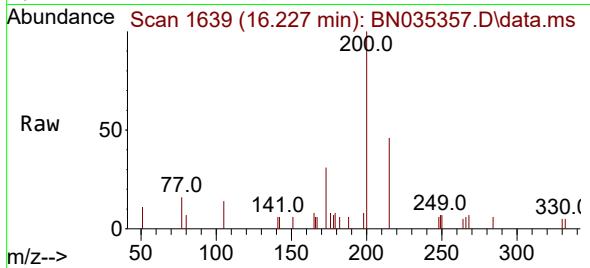




#23  
 Atrazine  
 Concen: 0.401 ng  
 RT: 16.227 min Scan# 1639  
 Delta R.T. -0.000 min  
 Lab File: BN035357.D  
 Acq: 27 Nov 2024 20:21

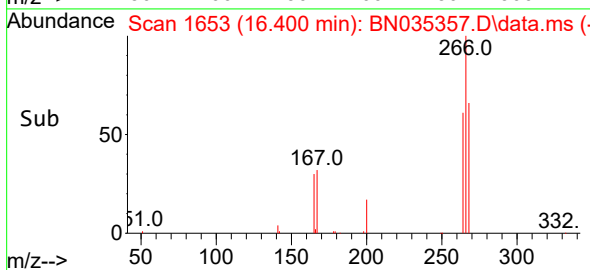
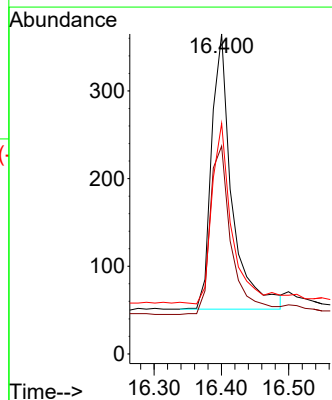
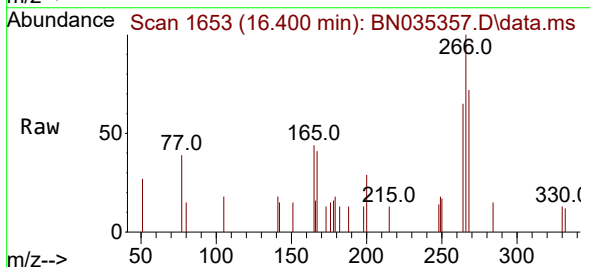
Instrument :  
 BNA\_N  
 ClientSampleId :  
 ICVBN112724

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 200   | Resp: | 1227  |
| Ion      | Ratio | Lower | Upper |
| 200      | 100   |       |       |
| 173      | 30.9  | 24.1  | 36.1  |
| 215      | 46.1  | 36.9  | 55.3  |

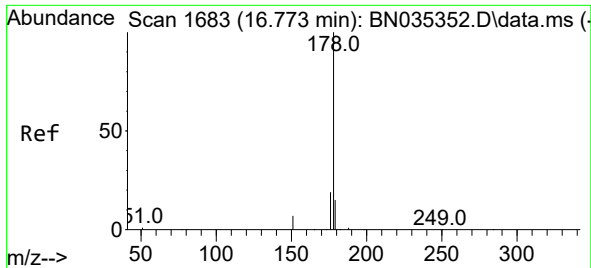


#24  
 Pentachlorophenol  
 Concen: 0.301 ng  
 RT: 16.400 min Scan# 1653  
 Delta R.T. -0.000 min  
 Lab File: BN035357.D  
 Acq: 27 Nov 2024 20:21

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 266   | Resp: | 662   |
| Ion      | Ratio | Lower | Upper |
| 266      | 100   |       |       |
| 264      | 65.0  | 42.3  | 63.5# |
| 268      | 66.8  | 43.3  | 64.9# |



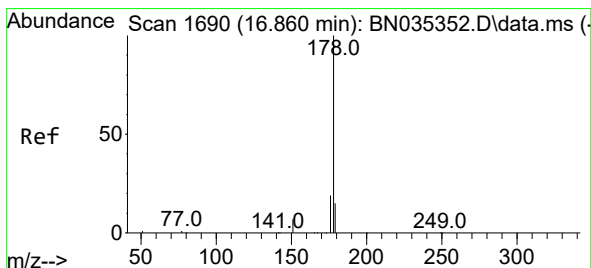
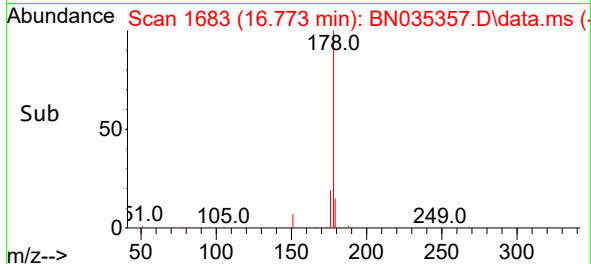
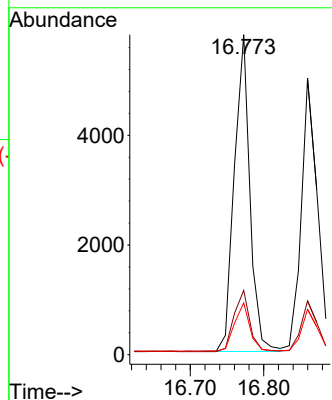
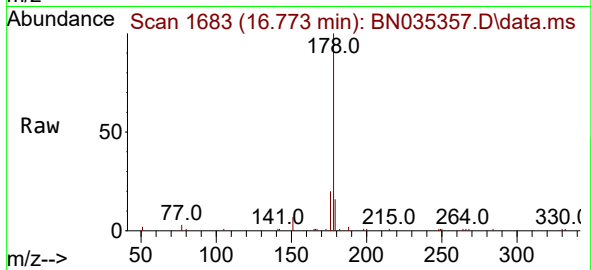




#25  
Phenanthrene  
Concen: 0.421 ng  
RT: 16.773 min Scan# 1683  
Delta R.T. -0.000 min  
Lab File: BN035357.D  
Acq: 27 Nov 2024 20:21

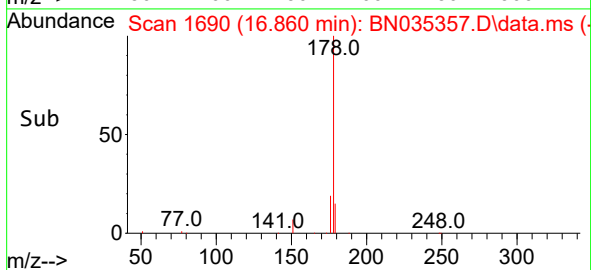
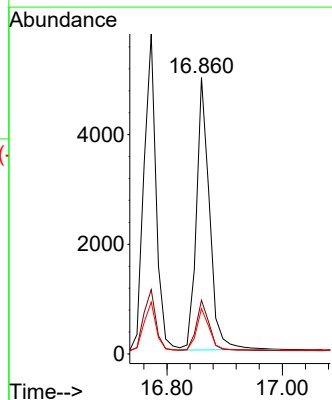
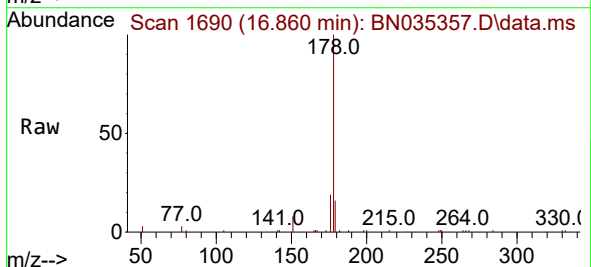
Instrument :  
BNA\_N  
ClientSampleId :  
ICVBN112724

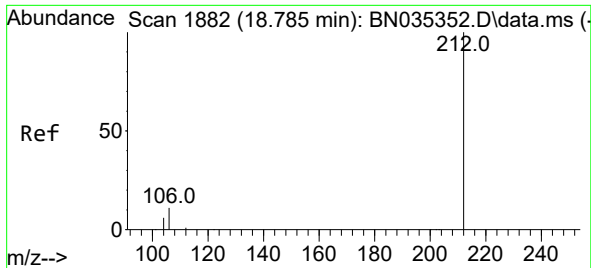
Tgt Ion:178 Resp: 8509  
Ion Ratio Lower Upper  
178 100  
176 19.6 15.4 23.2  
179 15.4 12.3 18.5



#26  
Anthracene  
Concen: 0.430 ng  
RT: 16.860 min Scan# 1690  
Delta R.T. -0.000 min  
Lab File: BN035357.D  
Acq: 27 Nov 2024 20:21

Tgt Ion:178 Resp: 7849  
Ion Ratio Lower Upper  
178 100  
176 18.8 15.0 22.6  
179 15.3 12.6 18.8

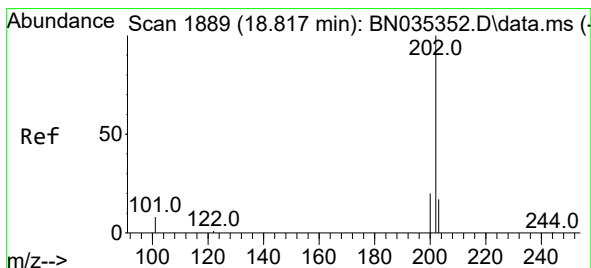
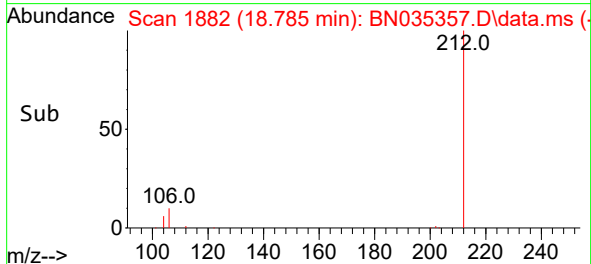
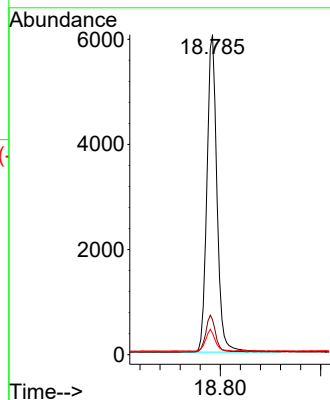
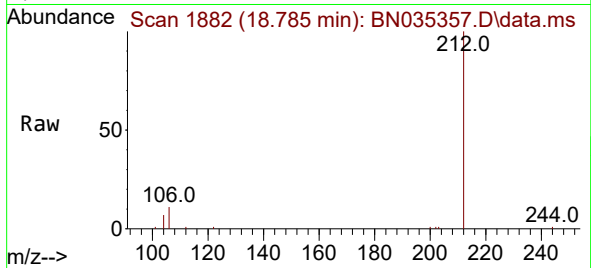




#27  
Fluoranthene-d10  
Concen: 0.404 ng  
RT: 18.785 min Scan# 1882  
Delta R.T. -0.000 min  
Lab File: BN035357.D  
Acq: 27 Nov 2024 20:21

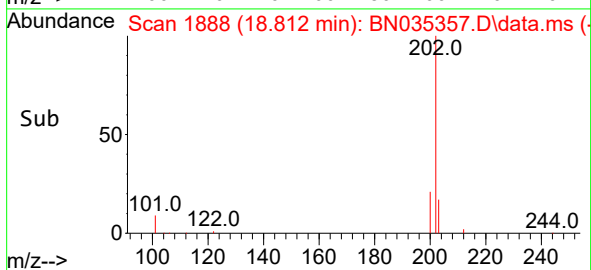
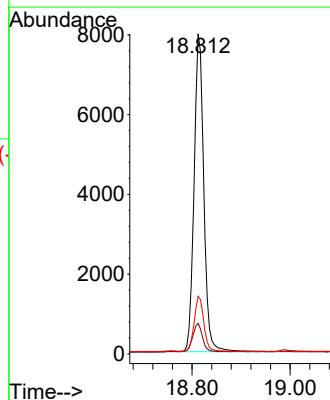
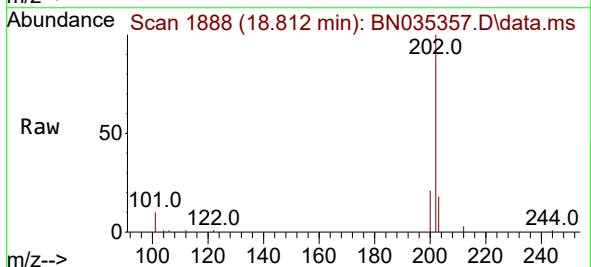
Instrument :  
BNA\_N  
ClientSampleId :  
ICVBN112724

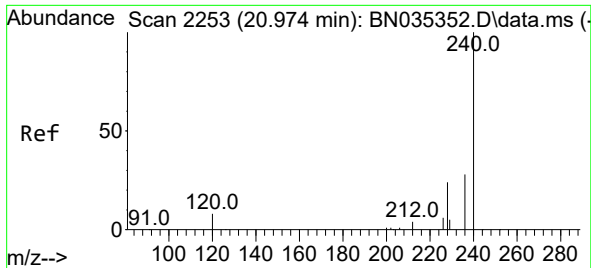
Tgt Ion:212 Resp: 8415  
Ion Ratio Lower Upper  
212 100  
106 11.3 9.2 13.8  
104 6.4 5.3 7.9



#28  
Fluoranthene  
Concen: 0.402 ng  
RT: 18.812 min Scan# 1888  
Delta R.T. -0.005 min  
Lab File: BN035357.D  
Acq: 27 Nov 2024 20:21

Tgt Ion:202 Resp: 10941  
Ion Ratio Lower Upper  
202 100  
101 9.2 7.4 11.0  
203 17.1 13.7 20.5

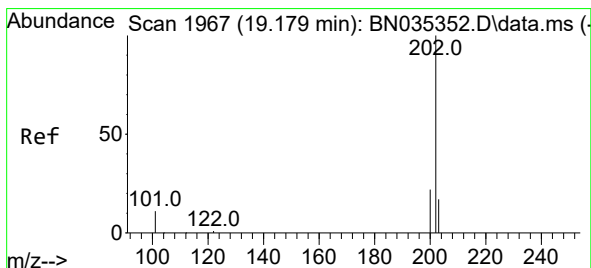
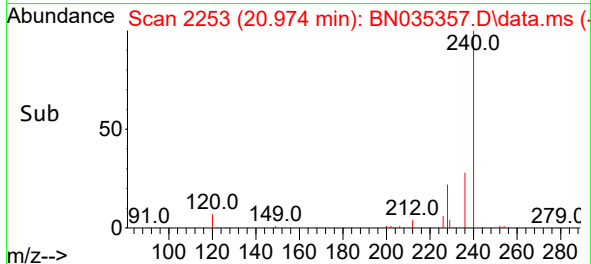
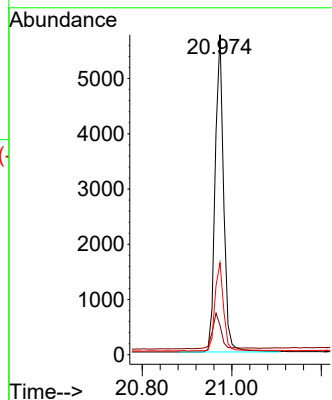
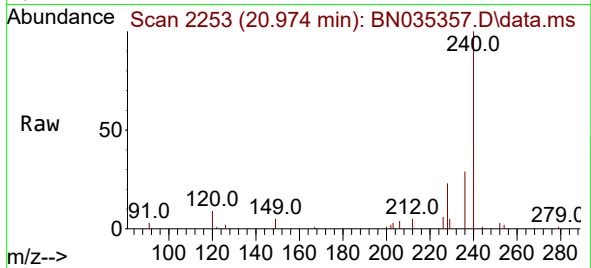




#29  
Chrysene-d12  
Concen: 0.400 ng  
RT: 20.974 min Scan# 21  
Delta R.T. -0.000 min  
Lab File: BN035357.D  
Acq: 27 Nov 2024 20:21

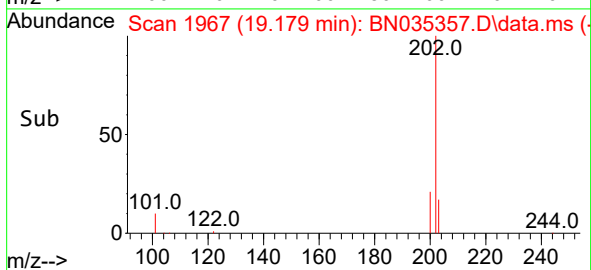
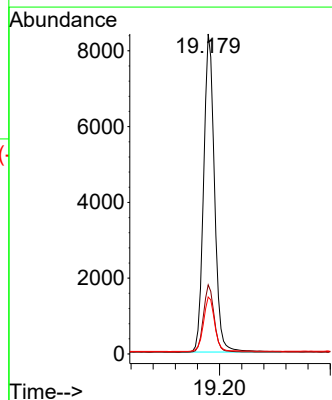
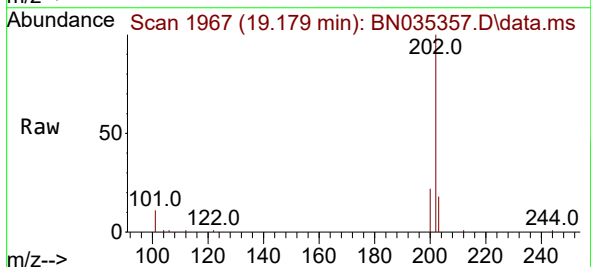
Instrument :  
BNA\_N  
ClientSampleId :  
ICVBN112724

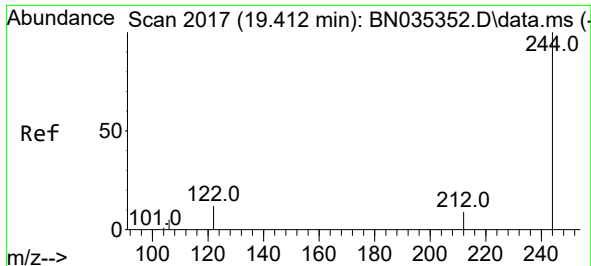
Tgt Ion:240 Resp: 7576  
Ion Ratio Lower Upper  
240 100  
120 9.1 7.9 11.9  
236 28.7 22.9 34.3



#30  
Pyrene  
Concen: 0.410 ng  
RT: 19.179 min Scan# 1967  
Delta R.T. -0.000 min  
Lab File: BN035357.D  
Acq: 27 Nov 2024 20:21

Tgt Ion:202 Resp: 11476  
Ion Ratio Lower Upper  
202 100  
200 20.9 17.0 25.4  
203 17.8 14.3 21.5

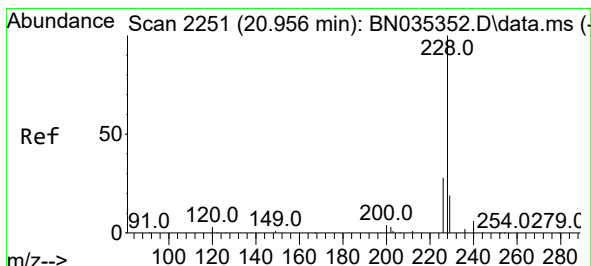
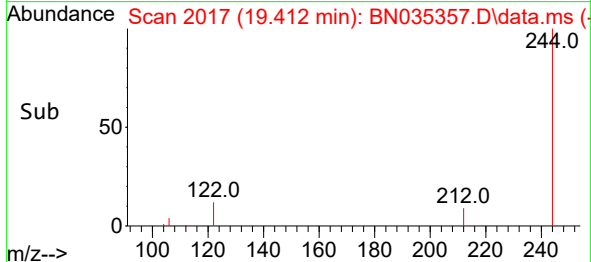
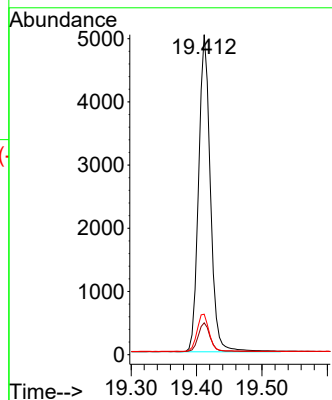
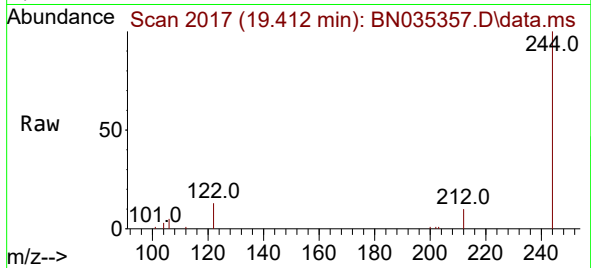




#31  
 Terphenyl-d14  
 Concen: 0.420 ng  
 RT: 19.412 min Scan# 2017  
 Delta R.T. -0.000 min  
 Lab File: BN035357.D  
 Acq: 27 Nov 2024 20:21

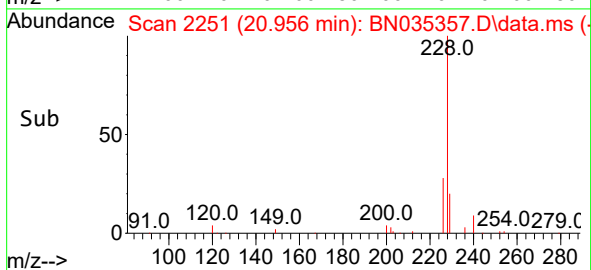
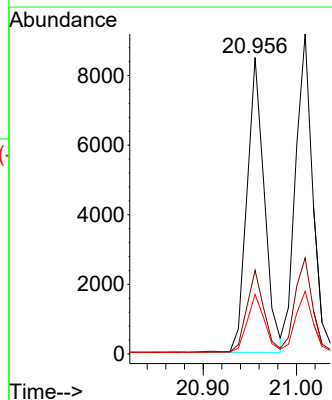
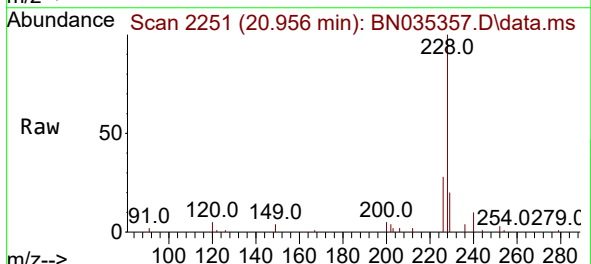
Instrument :  
 BNA\_N  
 ClientSampleId :  
 ICVBN112724

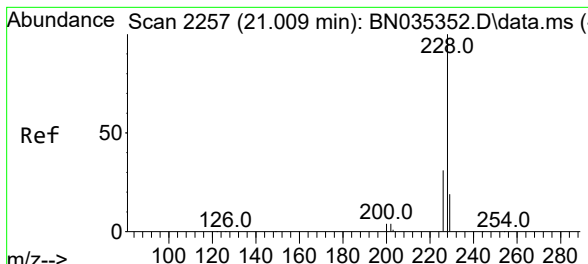
Tgt Ion:244 Resp: 6272  
 Ion Ratio Lower Upper  
 244 100  
 212 9.9 8.1 12.1  
 122 12.6 10.3 15.5



#32  
 Benzo(a)anthracene  
 Concen: 0.413 ng  
 RT: 20.956 min Scan# 2251  
 Delta R.T. -0.000 min  
 Lab File: BN035357.D  
 Acq: 27 Nov 2024 20:21

Tgt Ion:228 Resp: 10934  
 Ion Ratio Lower Upper  
 228 100  
 226 28.2 22.5 33.7  
 229 20.1 15.8 23.8





#33

Chrysene

Concen: 0.436 ng

RT: 21.009 min Scan# 21

Delta R.T. -0.000 min

Lab File: BN035357.D

Acq: 27 Nov 2024 20:21

Instrument :

BNA\_N

ClientSampleId :

ICVBN112724

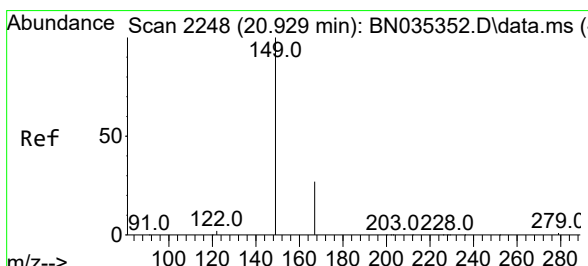
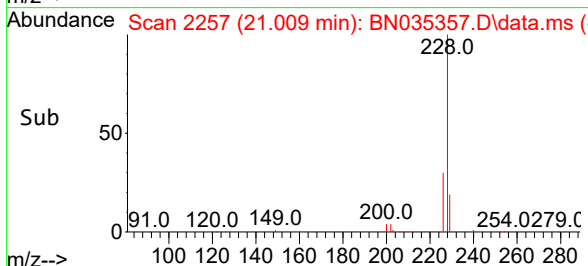
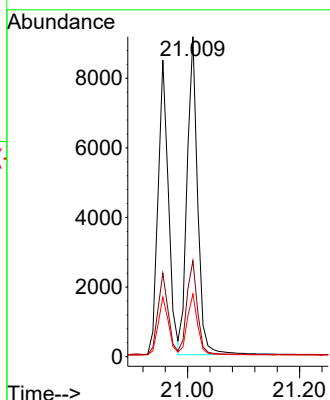
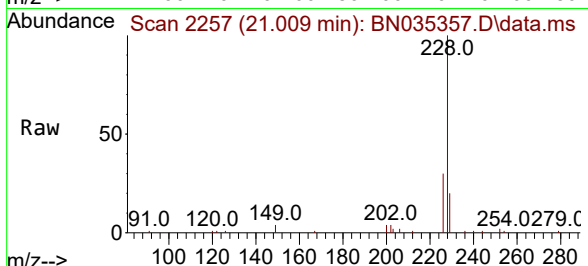
Tgt Ion:228 Resp: 11926

Ion Ratio Lower Upper

228 100

226 30.0 24.6 37.0

229 19.6 15.9 23.9



#34

Bis(2-ethylhexyl)phthalate

Concen: 0.384 ng

RT: 20.929 min Scan# 2248

Delta R.T. -0.000 min

Lab File: BN035357.D

Acq: 27 Nov 2024 20:21

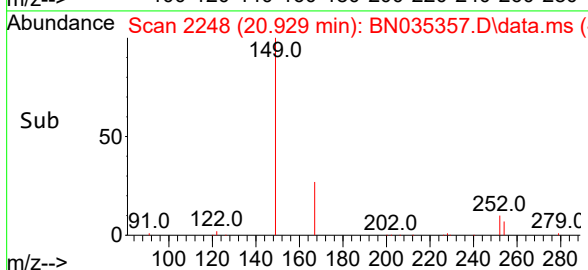
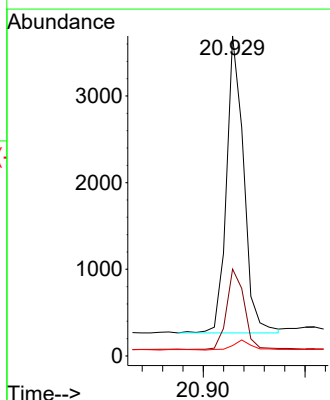
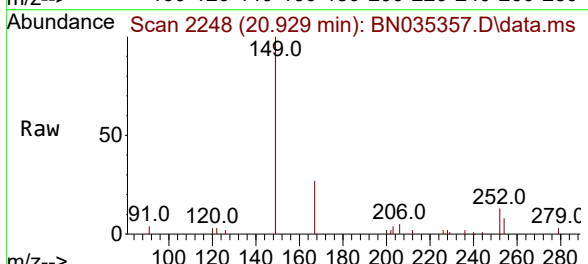
Tgt Ion:149 Resp: 4016

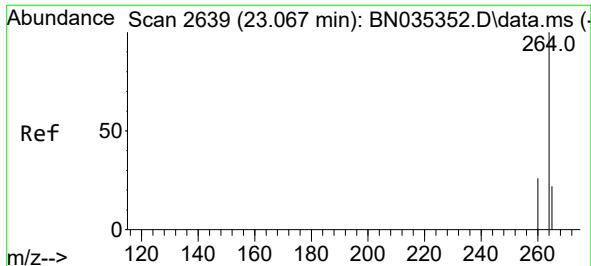
Ion Ratio Lower Upper

149 100

167 27.7 22.2 33.4

279 3.7 2.7 4.1



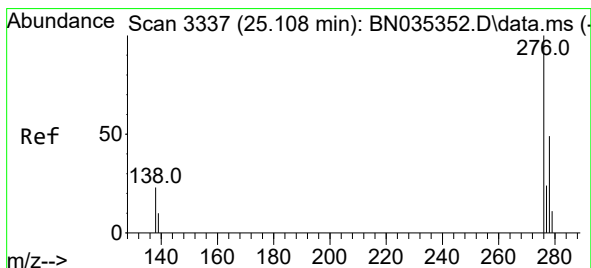
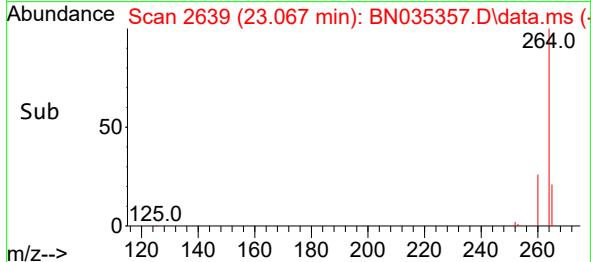
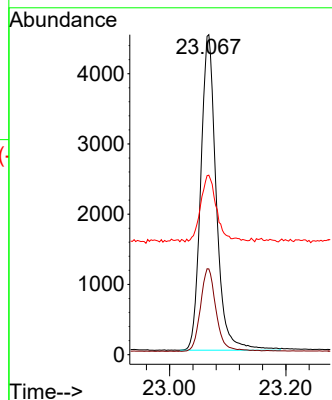
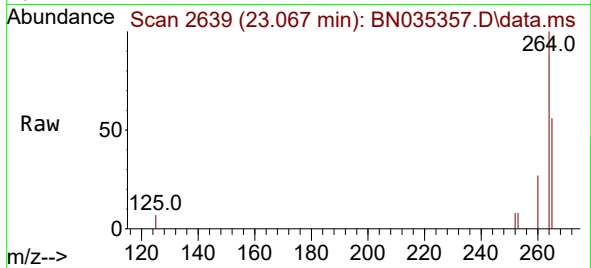


#35  
Perylene-d12  
Concen: 0.400 ng  
RT: 23.067 min Scan# 20  
Delta R.T. -0.000 min  
Lab File: BN035357.D  
Acq: 27 Nov 2024 20:21

Instrument :  
BNA\_N  
ClientSampleId :  
ICVBN112724

Tgt Ion:264 Resp: 8338  

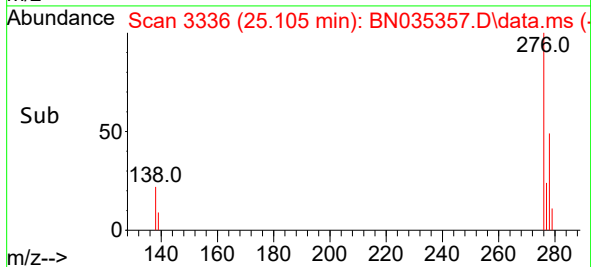
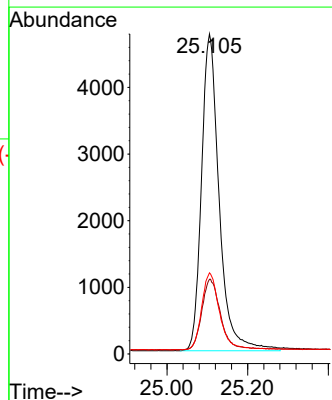
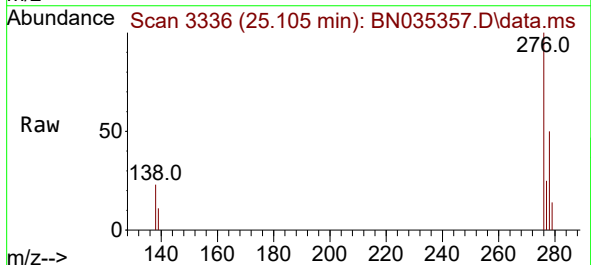
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 264 | 100   |       |       |
| 260 | 26.8  | 21.4  | 32.2  |
| 265 | 56.1  | 40.2  | 60.4  |

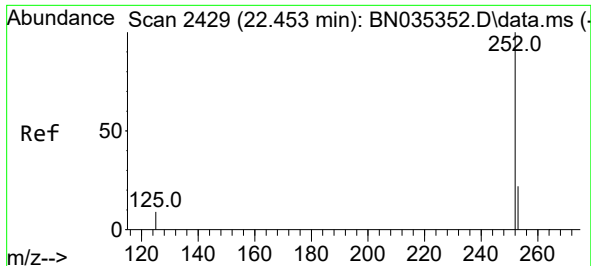


#36  
Indeno(1,2,3-cd)pyrene  
Concen: 0.443 ng  
RT: 25.105 min Scan# 3336  
Delta R.T. -0.003 min  
Lab File: BN035357.D  
Acq: 27 Nov 2024 20:21

Tgt Ion:276 Resp: 14433  

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 276 | 100   |       |       |
| 138 | 23.5  | 19.4  | 29.0  |
| 277 | 24.6  | 19.8  | 29.6  |





#37

Benzo(b)fluoranthene

Concen: 0.426 ng

RT: 22.453 min Scan# 2429

Delta R.T. -0.000 min

Lab File: BN035357.D

Acq: 27 Nov 2024 20:21

Instrument :

BNA\_N

ClientSampleId :

ICVBN112724

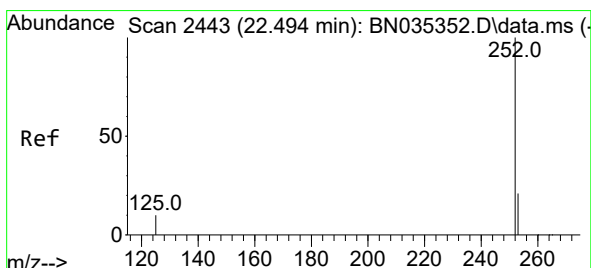
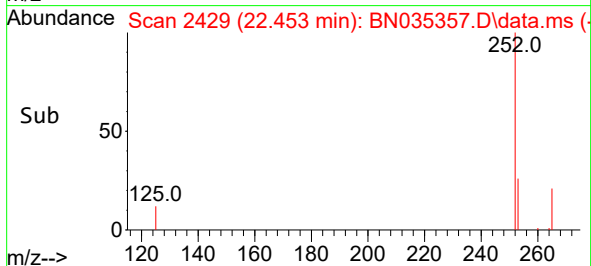
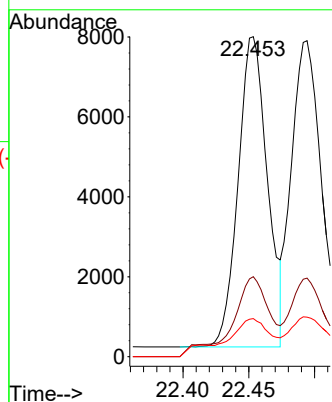
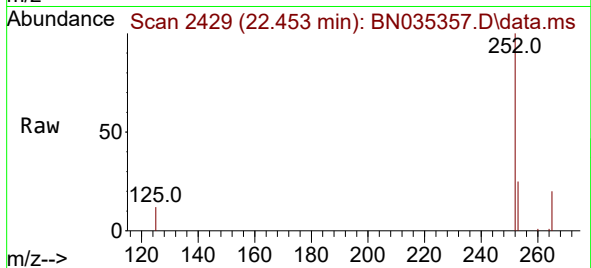
Tgt Ion:252 Resp: 12988

Ion Ratio Lower Upper

252 100

253 25.0 19.6 29.4

125 11.9 9.6 14.4



#38

Benzo(k)fluoranthene

Concen: 0.422 ng

RT: 22.494 min Scan# 2443

Delta R.T. -0.000 min

Lab File: BN035357.D

Acq: 27 Nov 2024 20:21

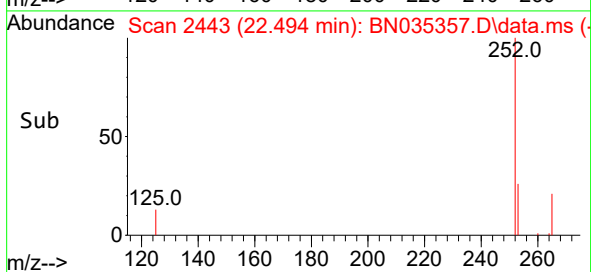
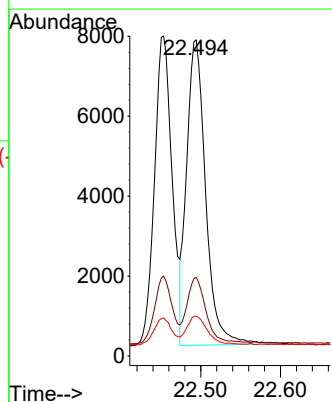
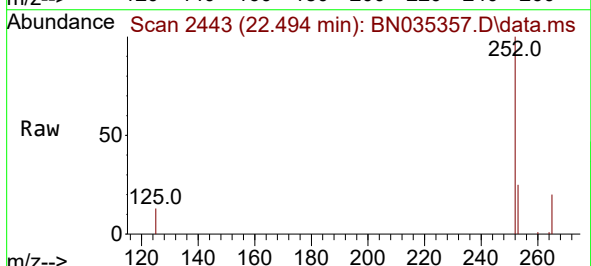
Tgt Ion:252 Resp: 12669

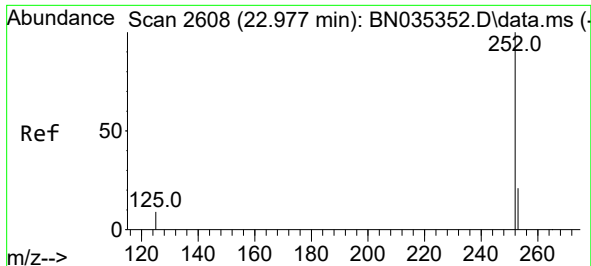
Ion Ratio Lower Upper

252 100

253 24.8 19.5 29.3

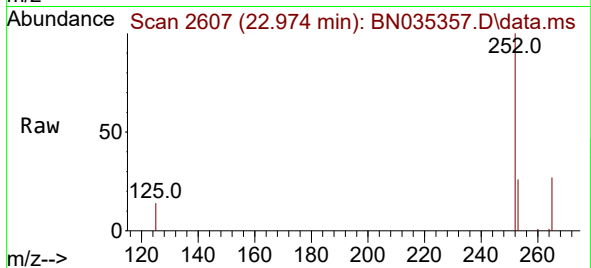
125 12.5 10.2 15.4



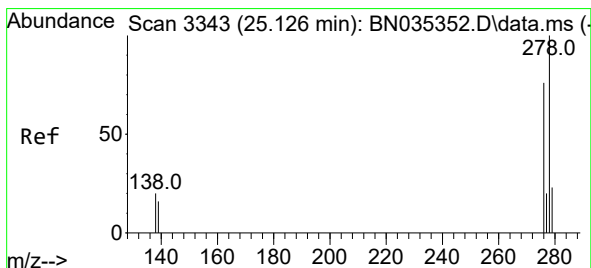
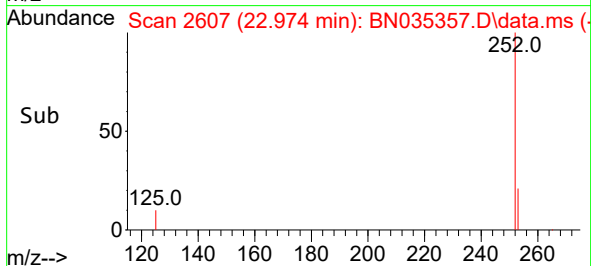
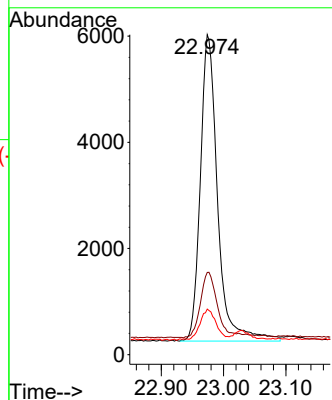


#39  
Benzo(a)pyrene  
Concen: 0.442 ng  
RT: 22.974 min Scan# 20  
Delta R.T. -0.003 min  
Lab File: BN035357.D  
Acq: 27 Nov 2024 20:21

Instrument :  
BNA\_N  
ClientSampleId :  
ICVBN112724

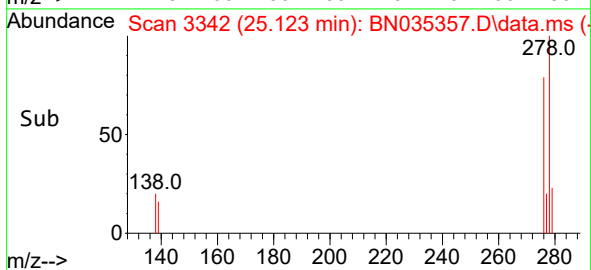
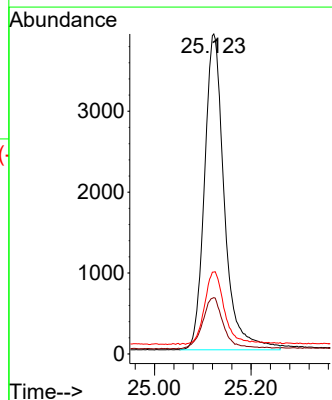
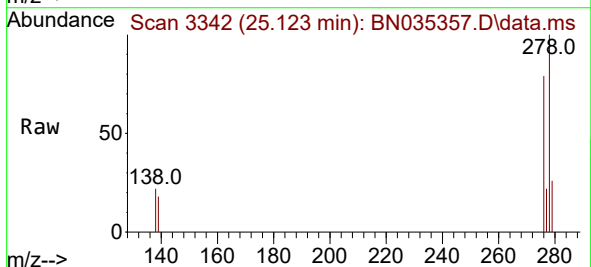


Tgt Ion:252 Resp: 11094  
Ion Ratio Lower Upper  
252 100  
253 25.7 20.2 30.4  
125 14.3 10.9 16.3

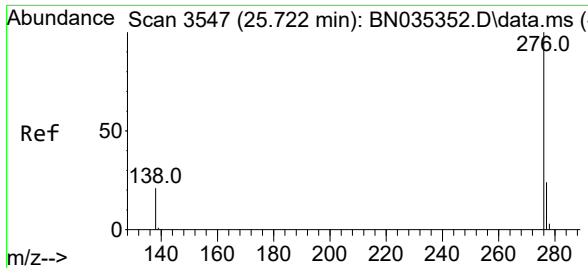


#40  
Dibenzo(a,h)anthracene  
Concen: 0.433 ng  
RT: 25.123 min Scan# 3342  
Delta R.T. -0.003 min  
Lab File: BN035357.D  
Acq: 27 Nov 2024 20:21

Tgt Ion:278 Resp: 11141  
Ion Ratio Lower Upper  
278 100  
139 17.6 14.2 21.4  
279 25.6 20.5 30.7

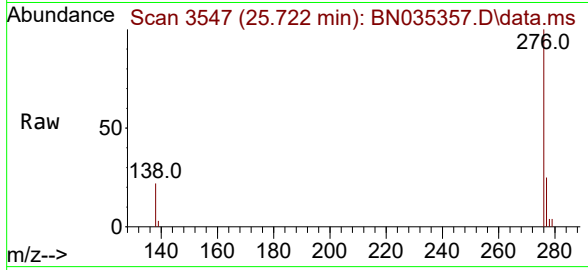




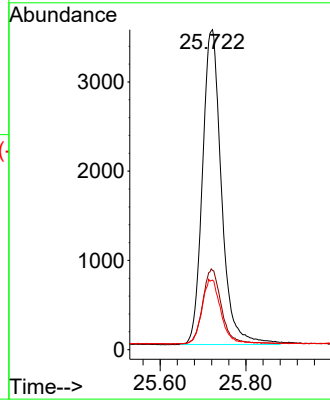
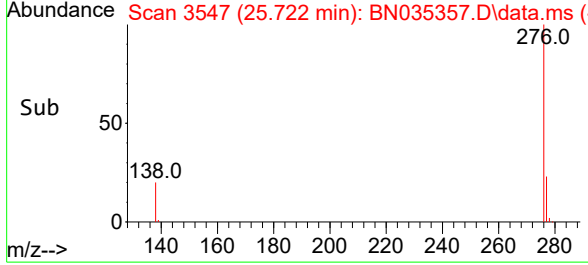


#41  
 Benzo(g,h,i)perylene  
 Concen: 0.404 ng  
 RT: 25.722 min Scan# 31  
 Delta R.T. -0.000 min  
 Lab File: BN035357.D  
 Acq: 27 Nov 2024 20:21

Instrument :  
 BNA\_N  
 ClientSampleId :  
 ICVBN112724



|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 276   | Resp: | 10870 |
| Ion      | Ratio | Lower | Upper |
| 276      | 100   |       |       |
| 277      | 24.7  | 19.9  | 29.9  |
| 138      | 21.7  | 17.8  | 26.8  |



Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN112724\  
 Data File : BN035368.D  
 Acq On : 28 Nov 2024 04:51  
 Operator : RC/JU  
 Sample : SSTDCCC0.4  
 Misc :  
 ALS Vial : 22 Sample Multiplier: 1

Instrument :  
 BNA\_N  
 ClientSampleId :  
 SSTDCCC0.4

Quant Time: Nov 28 05:19:23 2024  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\8270-SIM-BN112724.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Wed Nov 27 23:03:24 2024  
 Response via : Initial Calibration

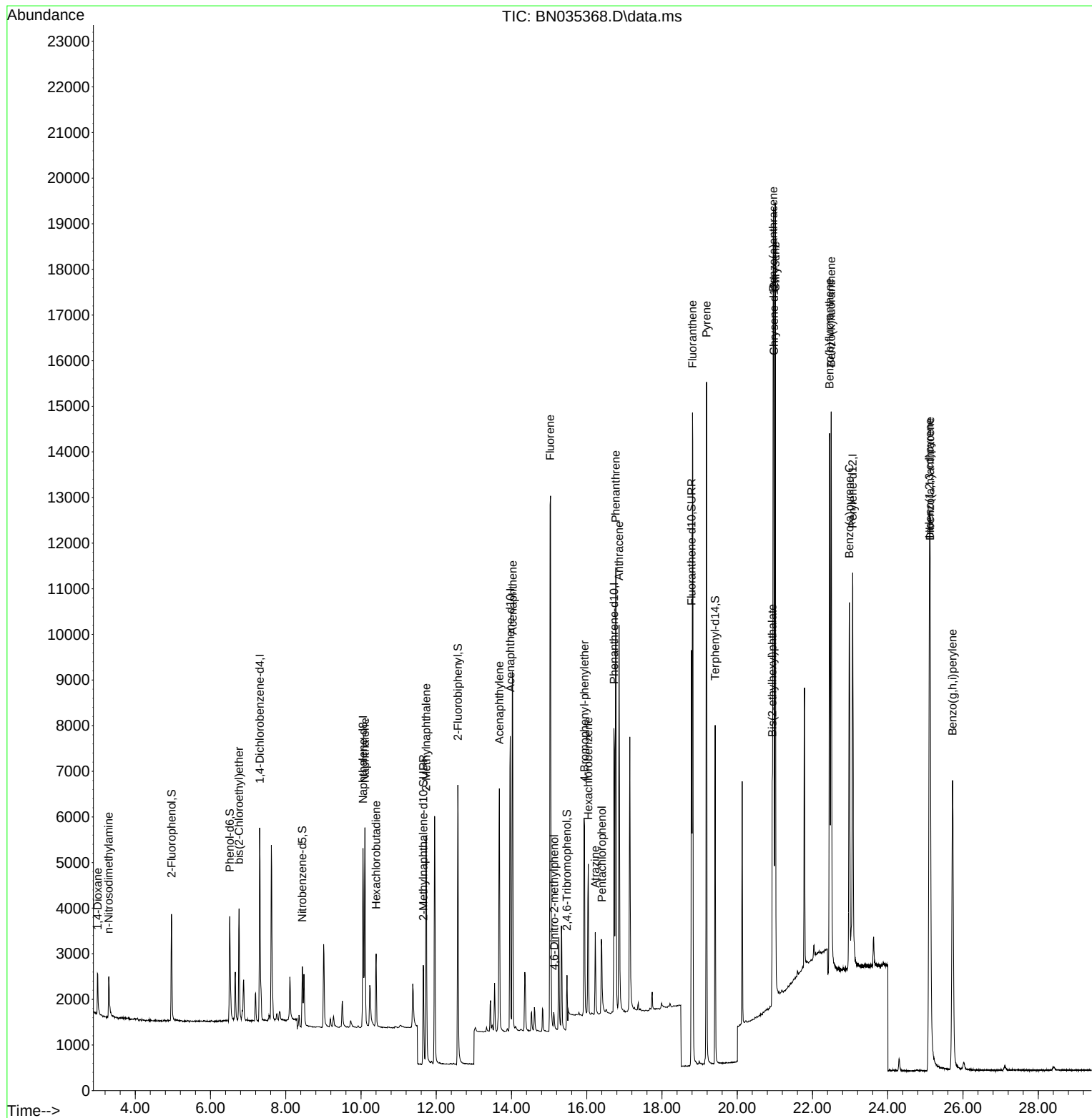
| Compound                      | R.T.   | QIon | Response | Conc  | Units | Dev(Min) |
|-------------------------------|--------|------|----------|-------|-------|----------|
| -----                         |        |      |          |       |       |          |
| Internal Standards            |        |      |          |       |       |          |
| 1) 1,4-Dichlorobenzene-d4     | 7.308  | 152  | 2051     | 0.400 | ng    | 0.00     |
| 7) Naphthalene-d8             | 10.052 | 136  | 5360     | 0.400 | ng    | 0.00     |
| 13) Acenaphthene-d10          | 13.967 | 164  | 3908     | 0.400 | ng    | 0.00     |
| 19) Phenanthrene-d10          | 16.723 | 188  | 9758     | 0.400 | ng    | #-0.01   |
| 29) Chrysene-d12              | 20.974 | 240  | 9496     | 0.400 | ng    | 0.00     |
| 35) Perylene-d12              | 23.067 | 264  | 10416    | 0.400 | ng    | 0.00     |
| System Monitoring Compounds   |        |      |          |       |       |          |
| 4) 2-Fluorophenol             | 4.968  | 112  | 2113     | 0.412 | ng    | 0.00     |
| 5) Phenol-d6                  | 6.513  | 99   | 2611     | 0.423 | ng    | 0.00     |
| 8) Nitrobenzene-d5            | 8.440  | 82   | 1400     | 0.428 | ng    | 0.00     |
| 11) 2-Methylnaphthalene-d10   | 11.656 | 152  | 3309     | 0.394 | ng    | 0.00     |
| 14) 2,4,6-Tribromophenol      | 15.475 | 330  | 1093     | 0.394 | ng    | 0.00     |
| 15) 2-Fluorobiphenyl          | 12.574 | 172  | 5940     | 0.402 | ng    | 0.00     |
| 27) Fluoranthene-d10          | 18.785 | 212  | 10388    | 0.376 | ng    | 0.00     |
| 31) Terphenyl-d14             | 19.412 | 244  | 7482     | 0.399 | ng    | 0.00     |
| Target Compounds              |        |      |          |       |       |          |
|                               |        |      |          |       |       | Qvalue   |
| 2) 1,4-Dioxane                | 3.003  | 88   | 770      | 0.393 | ng    | 100      |
| 3) n-Nitrosodimethylamine     | 3.292  | 42   | 671      | 0.411 | ng    | # 98     |
| 6) bis(2-Chloroethyl)ether    | 6.759  | 93   | 2024     | 0.390 | ng    | 100      |
| 9) Naphthalene                | 10.105 | 128  | 5590     | 0.395 | ng    | 100      |
| 10) Hexachlorobutadiene       | 10.404 | 225  | 1343     | 0.412 | ng    | # 100    |
| 12) 2-Methylnaphthalene       | 11.732 | 142  | 4014     | 0.397 | ng    | 99       |
| 16) Acenaphthylene            | 13.679 | 152  | 6370     | 0.388 | ng    | 99       |
| 17) Acenaphthene              | 14.031 | 154  | 4272     | 0.392 | ng    | 100      |
| 18) Fluorene                  | 15.026 | 166  | 6118     | 0.392 | ng    | 99       |
| 20) 4,6-Dinitro-2-methylph... | 15.132 | 198  | 349      | 0.364 | ng    | 98       |
| 21) 4-Bromophenyl-phenylether | 15.941 | 248  | 2214     | 0.388 | ng    | 99       |
| 22) Hexachlorobenzene         | 16.040 | 284  | 2712     | 0.405 | ng    | 99       |
| 23) Atrazine                  | 16.227 | 200  | 1469     | 0.362 | ng    | 98       |
| 24) Pentachlorophenol         | 16.400 | 266  | 1108     | 0.380 | ng    | 87       |
| 25) Phenanthrene              | 16.773 | 178  | 10414    | 0.389 | ng    | 100      |
| 26) Anthracene                | 16.860 | 178  | 9214     | 0.380 | ng    | 100      |
| 28) Fluoranthene              | 18.812 | 202  | 13563    | 0.375 | ng    | 100      |
| 30) Pyrene                    | 19.184 | 202  | 14155    | 0.404 | ng    | 100      |
| 32) Benzo(a)anthracene        | 20.956 | 228  | 12659    | 0.381 | ng    | 100      |
| 33) Chrysene                  | 21.009 | 228  | 13795    | 0.403 | ng    | 99       |
| 34) Bis(2-ethylhexyl)phtha... | 20.929 | 149  | 4791     | 0.365 | ng    | 100      |
| 36) Indeno(1,2,3-cd)pyrene    | 25.105 | 276  | 15947    | 0.392 | ng    | 99       |
| 37) Benzo(b)fluoranthene      | 22.453 | 252  | 16437    | 0.431 | ng    | 100      |
| 38) Benzo(k)fluoranthene      | 22.497 | 252  | 14678    | 0.391 | ng    | 99       |
| 39) Benzo(a)pyrene            | 22.980 | 252  | 11871    | 0.378 | ng    | 99       |
| 40) Dibenzo(a,h)anthracene    | 25.128 | 278  | 12541    | 0.390 | ng    | 99       |
| 41) Benzo(g,h,i)perylene      | 25.722 | 276  | 12859    | 0.383 | ng    | 98       |
| -----                         |        |      |          |       |       |          |

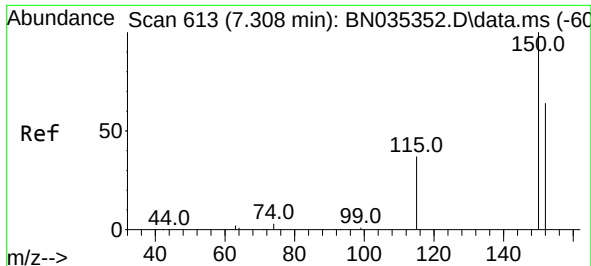
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Data File : BN035368.D  
Acq On : 28 Nov 2024 04:51  
Operator : RC/JU  
Sample : SSTDCCC0.4  
Misc :  
ALS Vial : 22 Sample Multiplier: 1

Instrument :  
BNA\_N  
ClientSampleId :  
SSTDCCC0.4

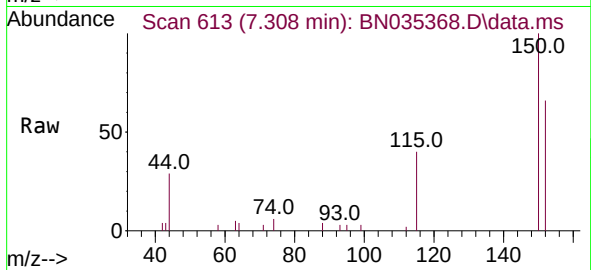
Quant Time: Nov 28 05:19:23 2024  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\8270-SIM-BN112724.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Wed Nov 27 23:03:24 2024  
Response via : Initial Calibration





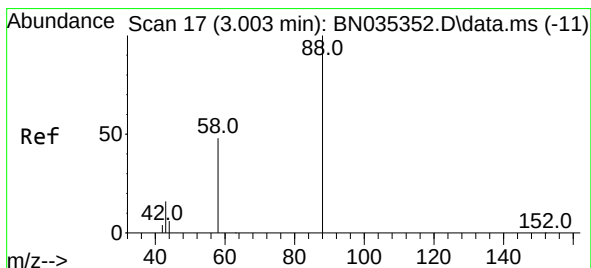
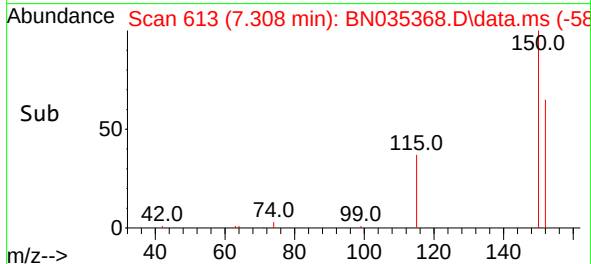
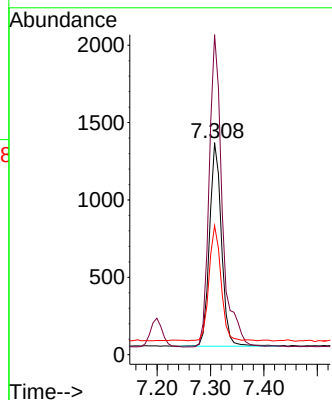
#1  
 1,4-Dichlorobenzene-d4  
 Concen: 0.400 ng  
 RT: 7.308 min Scan# 61  
 Delta R.T. -0.000 min  
 Lab File: BN035368.D  
 Acq: 28 Nov 2024 04:51

Instrument :  
 BNA\_N  
 ClientSampleId :  
 SSTDCCC0.4



Tgt Ion: 152 Resp: 2051

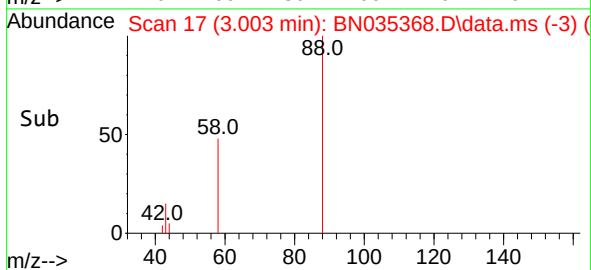
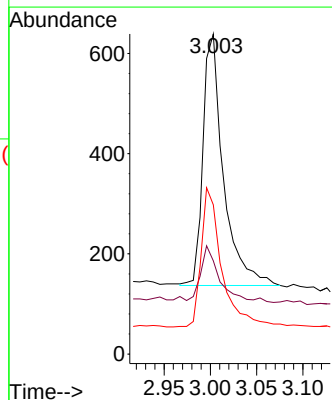
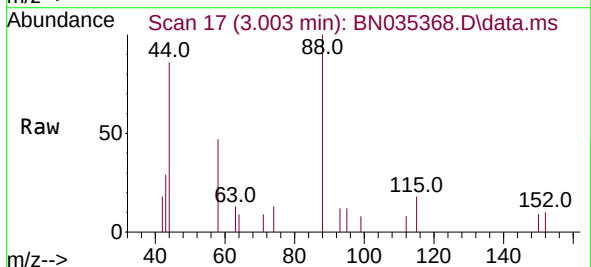
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 152 | 100   |       |       |
| 150 | 150.9 | 124.0 | 186.0 |
| 115 | 60.8  | 49.6  | 74.4  |

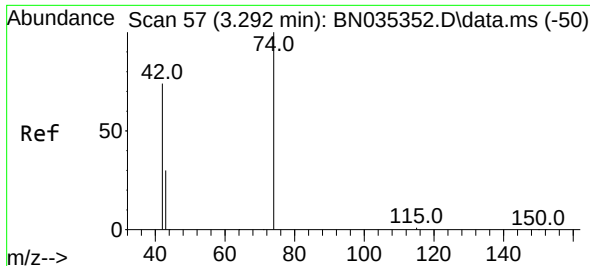


#2  
 1,4-Dioxane  
 Concen: 0.393 ng  
 RT: 3.003 min Scan# 17  
 Delta R.T. -0.000 min  
 Lab File: BN035368.D  
 Acq: 28 Nov 2024 04:51

Tgt Ion: 88 Resp: 770

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 88  | 100   |       |       |
| 43  | 22.2  | 17.2  | 25.8  |
| 58  | 55.6  | 44.5  | 66.7  |

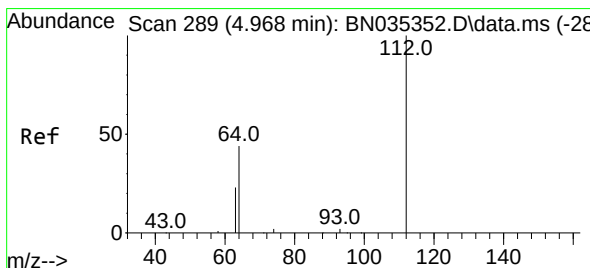
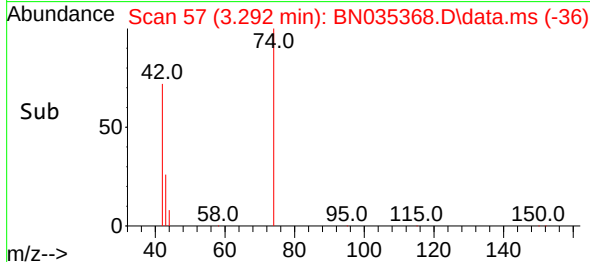
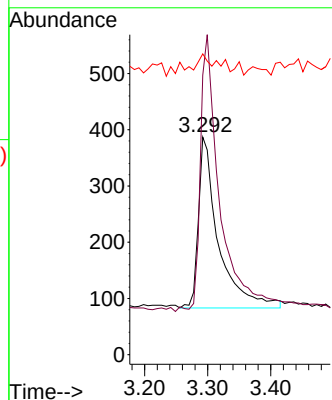
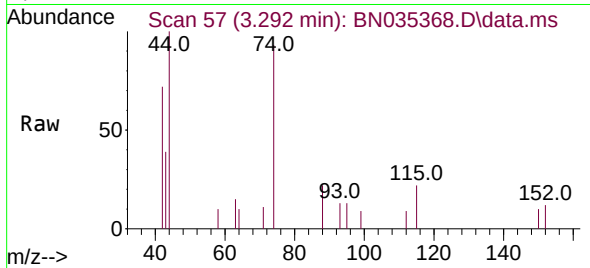




#3  
n-Nitrosodimethylamine  
Concen: 0.411 ng  
RT: 3.292 min Scan# 51  
Delta R.T. -0.000 min  
Lab File: BN035368.D  
Acq: 28 Nov 2024 04:51

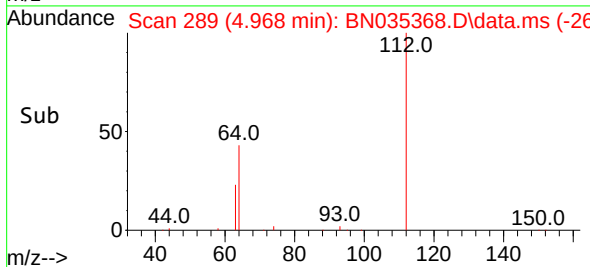
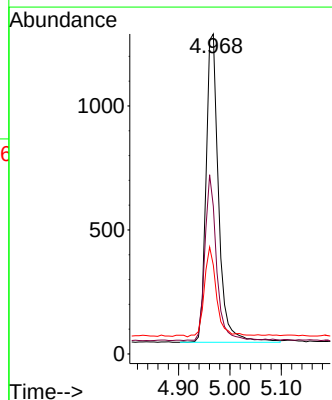
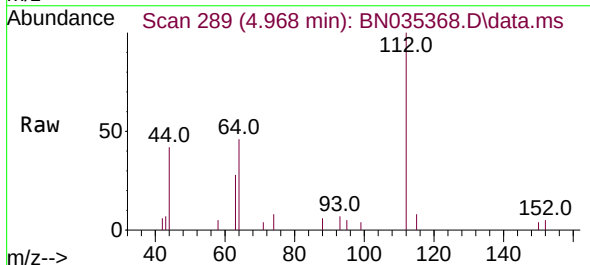
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDCCC0.4

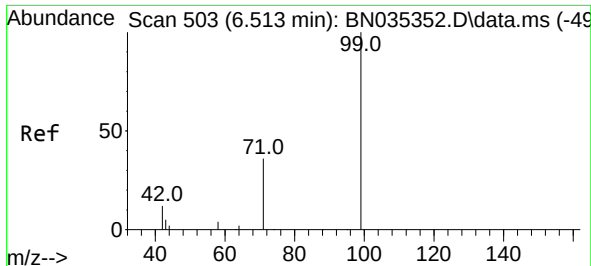
Tgt Ion: 42 Resp: 671  
Ion Ratio Lower Upper  
42 100  
74 158.9 124.9 187.3  
44 4.3 2.2 3.4#



#4  
2-Fluorophenol  
Concen: 0.412 ng  
RT: 4.968 min Scan# 289  
Delta R.T. -0.000 min  
Lab File: BN035368.D  
Acq: 28 Nov 2024 04:51

Tgt Ion: 112 Resp: 2113  
Ion Ratio Lower Upper  
112 100  
64 49.9 39.8 59.8  
63 28.7 21.0 31.6

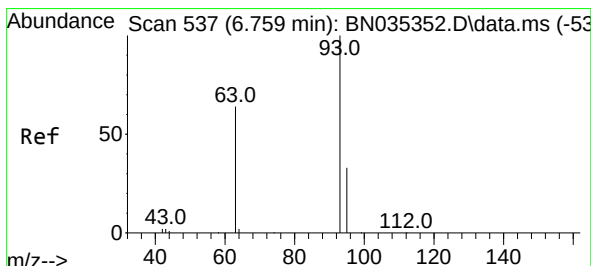
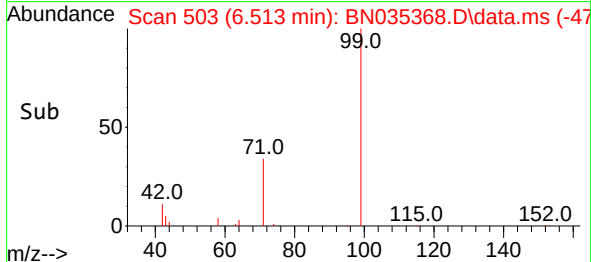
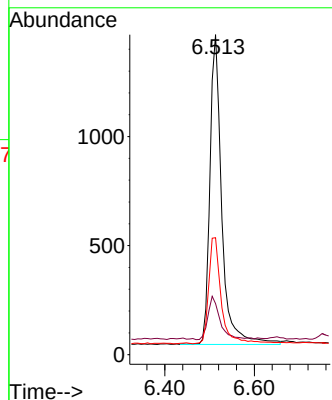
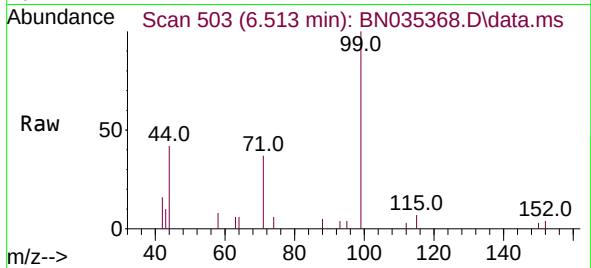




#5  
Phenol-d6  
Concen: 0.423 ng  
RT: 6.513 min Scan# 503  
Delta R.T. -0.000 min  
Lab File: BN035368.D  
Acq: 28 Nov 2024 04:51

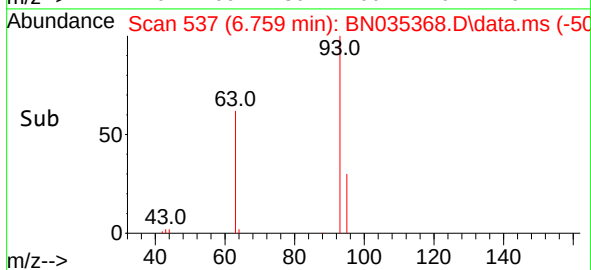
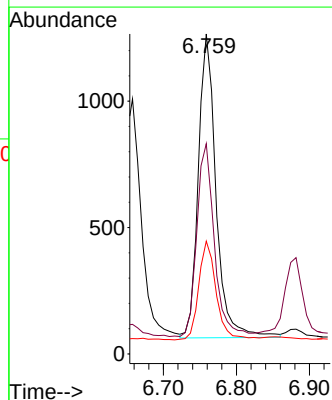
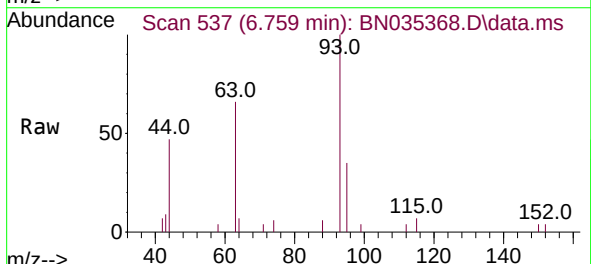
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDCCC0.4

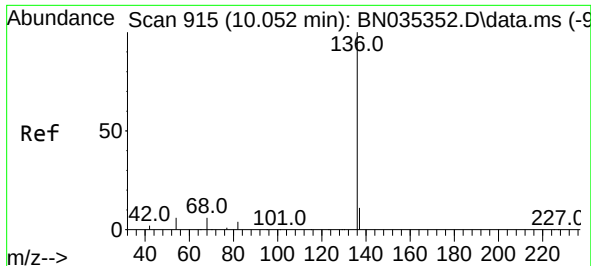
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 99    | Resp: | 2611  |
| Ion      | Ratio | Lower | Upper |
| 99       | 100   |       |       |
| 42       | 14.4  | 11.4  | 17.2  |
| 71       | 36.8  | 29.3  | 43.9  |



#6  
bis(2-Chloroethyl)ether  
Concen: 0.390 ng  
RT: 6.759 min Scan# 537  
Delta R.T. -0.000 min  
Lab File: BN035368.D  
Acq: 28 Nov 2024 04:51

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 93    | Resp: | 2024  |
| Ion      | Ratio | Lower | Upper |
| 93       | 100   |       |       |
| 63       | 62.9  | 50.4  | 75.6  |
| 95       | 32.0  | 25.7  | 38.5  |

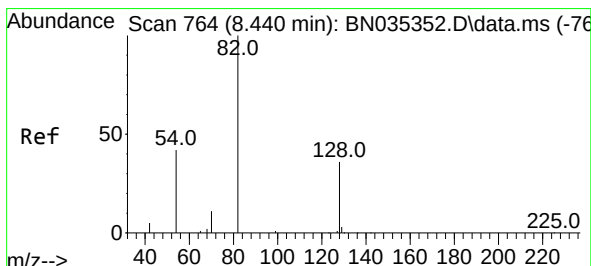
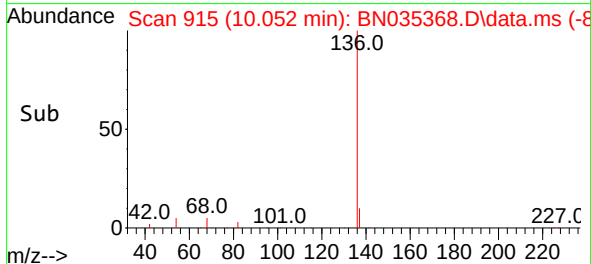
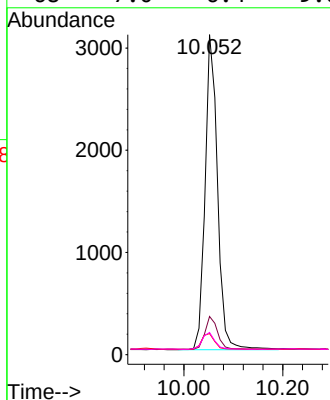
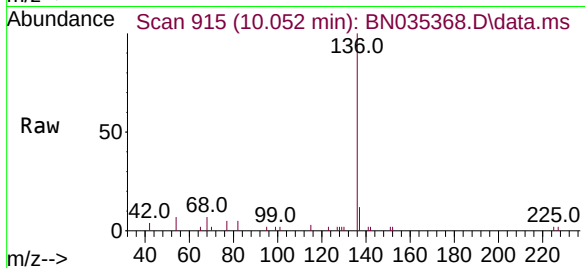




#7  
Naphthalene-d8  
Concen: 0.400 ng  
RT: 10.052 min Scan# 915  
Delta R.T. -0.000 min  
Lab File: BN035368.D  
Acq: 28 Nov 2024 04:51

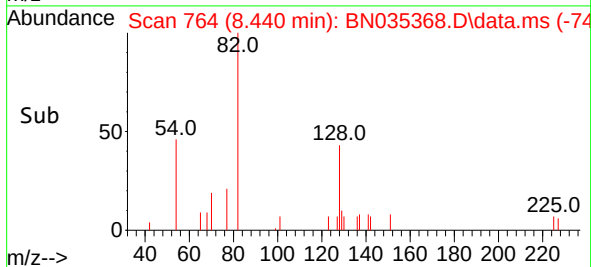
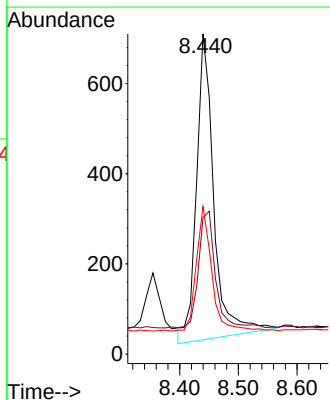
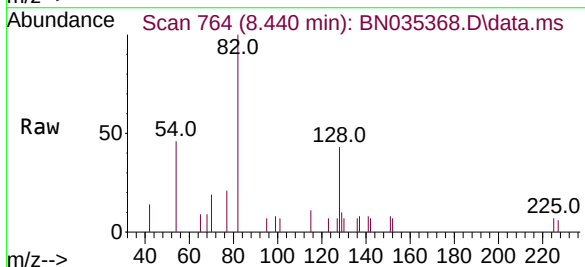
Instrument :  
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ClientSampleId :  
SSTDCCC0.4

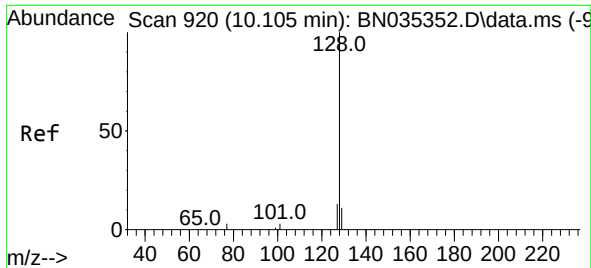
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 136   | Resp: | 5360  |
| Ion      | Ratio | Lower | Upper |
| 136      | 100   |       |       |
| 137      | 11.9  | 10.2  | 15.2  |
| 54       | 6.6   | 6.1   | 9.1   |
| 68       | 7.0   | 6.4   | 9.6   |



#8  
Nitrobenzene-d5  
Concen: 0.428 ng  
RT: 8.440 min Scan# 764  
Delta R.T. -0.000 min  
Lab File: BN035368.D  
Acq: 28 Nov 2024 04:51

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 82    | Resp: | 1400  |
| Ion      | Ratio | Lower | Upper |
| 82       | 100   |       |       |
| 128      | 42.7  | 33.4  | 50.0  |
| 54       | 46.1  | 36.7  | 55.1  |

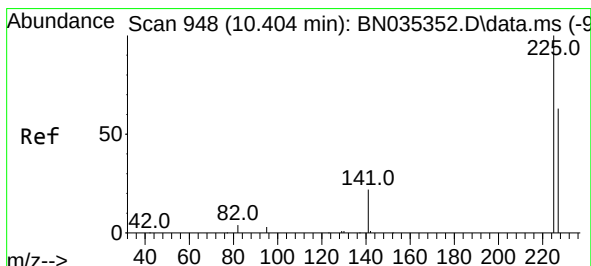
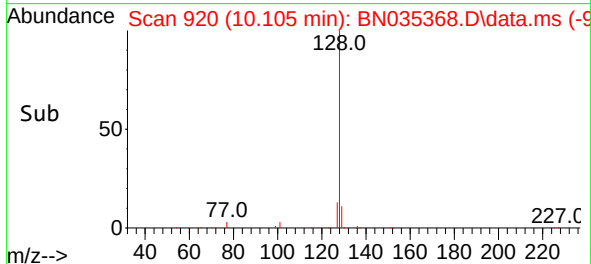
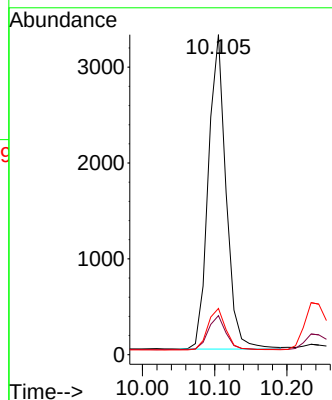
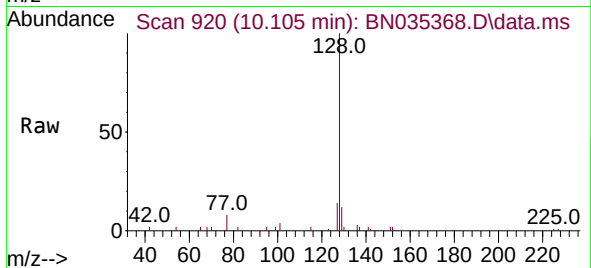




#9  
Naphthalene  
Concen: 0.395 ng  
RT: 10.105 min Scan# 91  
Delta R.T. -0.000 min  
Lab File: BN035368.D  
Acq: 28 Nov 2024 04:51

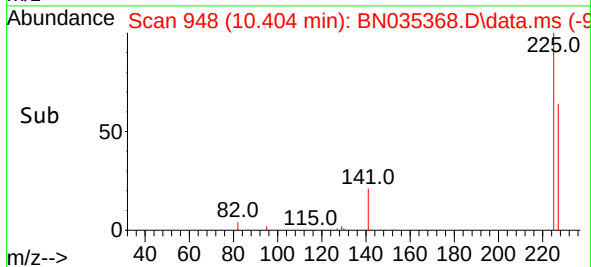
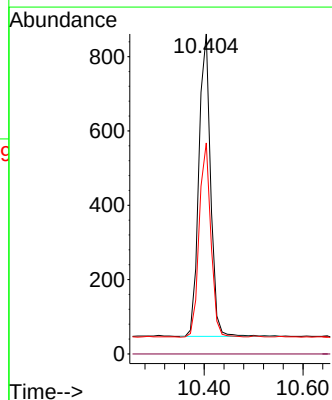
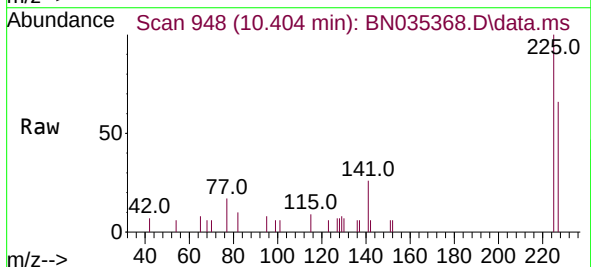
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDCCC0.4

Tgt Ion:128 Resp: 5590  
Ion Ratio Lower Upper  
128 100  
129 12.2 9.8 14.6  
127 14.4 11.4 17.2

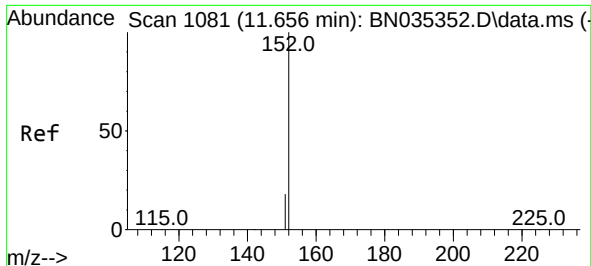


#10  
Hexachlorobutadiene  
Concen: 0.412 ng  
RT: 10.404 min Scan# 948  
Delta R.T. -0.000 min  
Lab File: BN035368.D  
Acq: 28 Nov 2024 04:51

Tgt Ion:225 Resp: 1343  
Ion Ratio Lower Upper  
225 100  
223 0.0 0.0 0.0  
227 63.8 51.3 76.9



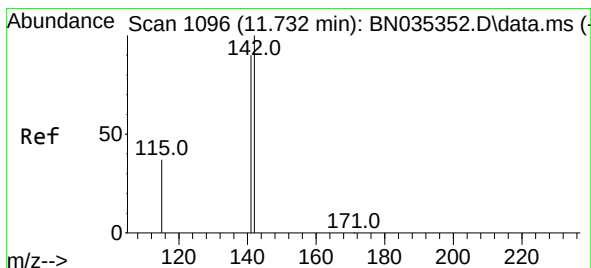
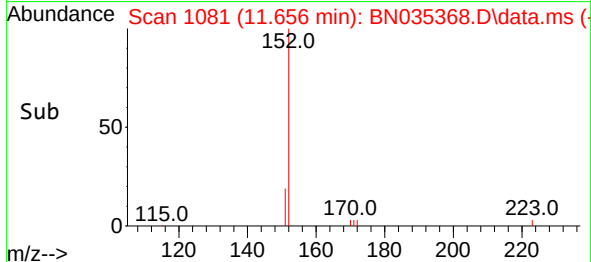
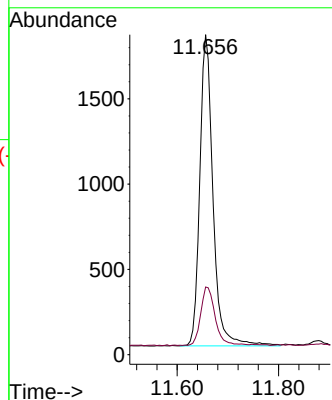
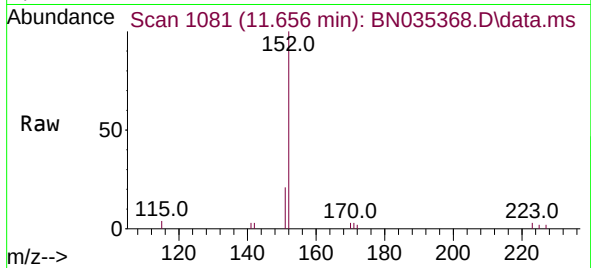




#11  
2-Methylnaphthalene-d10  
Concen: 0.394 ng  
RT: 11.656 min Scan# 1081  
Delta R.T. -0.000 min  
Lab File: BN035368.D  
Acq: 28 Nov 2024 04:51

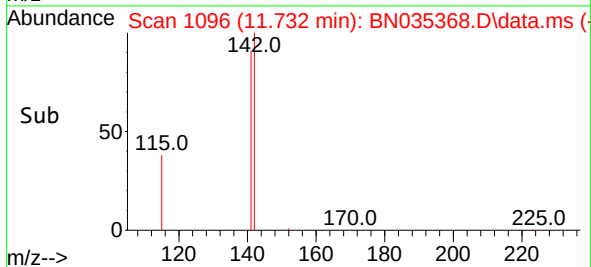
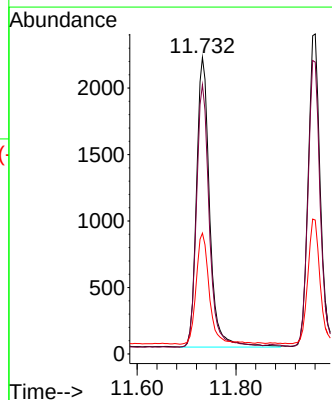
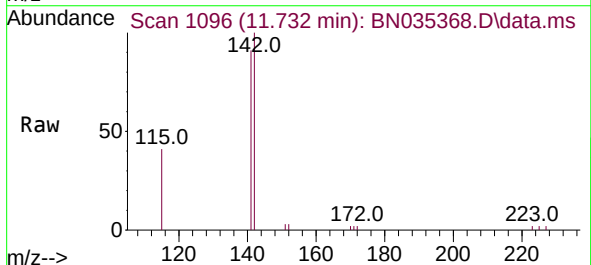
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDCCC0.4

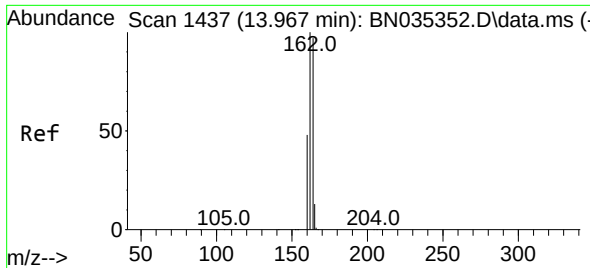
Tgt Ion:152 Resp: 3309  
Ion Ratio Lower Upper  
152 100  
151 20.4 16.6 25.0



#12  
2-Methylnaphthalene  
Concen: 0.397 ng  
RT: 11.732 min Scan# 1096  
Delta R.T. -0.000 min  
Lab File: BN035368.D  
Acq: 28 Nov 2024 04:51

Tgt Ion:142 Resp: 4014  
Ion Ratio Lower Upper  
142 100  
141 90.8 72.2 108.4  
115 40.7 31.4 47.0

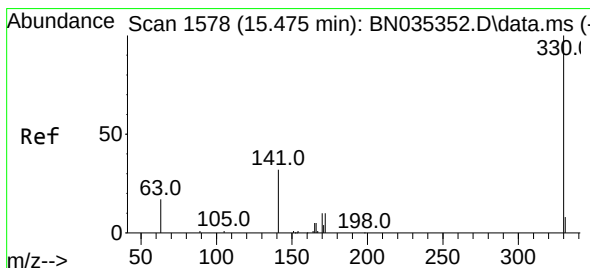
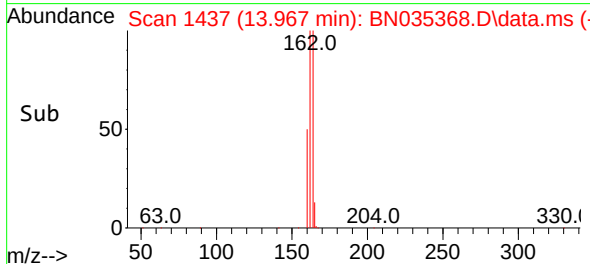
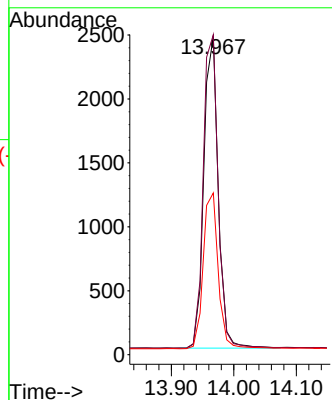
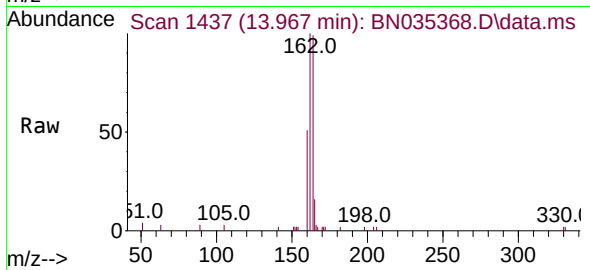




#13  
Acenaphthene-d10  
Concen: 0.400 ng  
RT: 13.967 min Scan# 1437  
Delta R.T. -0.000 min  
Lab File: BN035368.D  
Acq: 28 Nov 2024 04:51

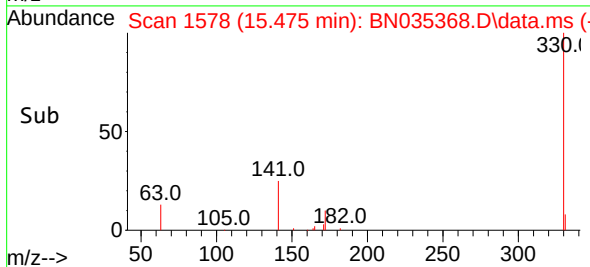
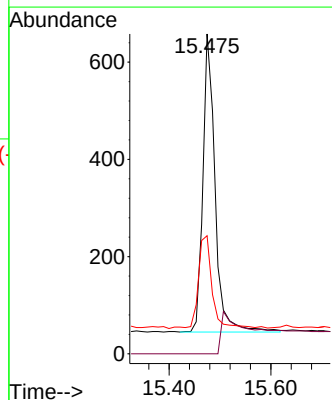
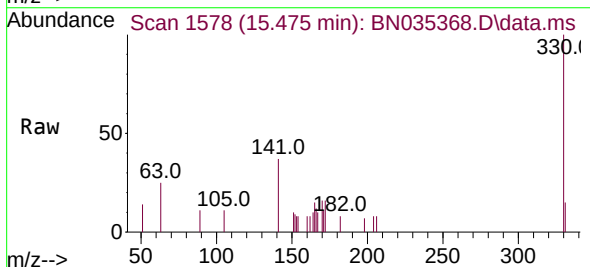
Instrument :  
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ClientSampleId :  
SSTDCCC0.4

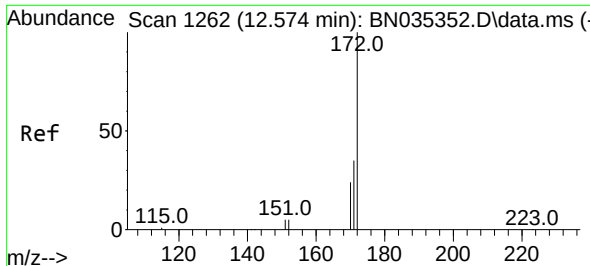
Tgt Ion:164 Resp: 3908  
Ion Ratio Lower Upper  
164 100  
162 100.5 82.2 123.2  
160 50.8 40.1 60.1



#14  
2,4,6-Tribromophenol  
Concen: 0.394 ng  
RT: 15.475 min Scan# 1578  
Delta R.T. -0.000 min  
Lab File: BN035368.D  
Acq: 28 Nov 2024 04:51

Tgt Ion:330 Resp: 1093  
Ion Ratio Lower Upper  
330 100  
332 0.0 0.0 0.0  
141 35.1 26.6 40.0

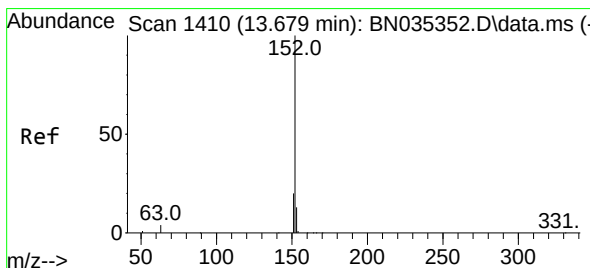
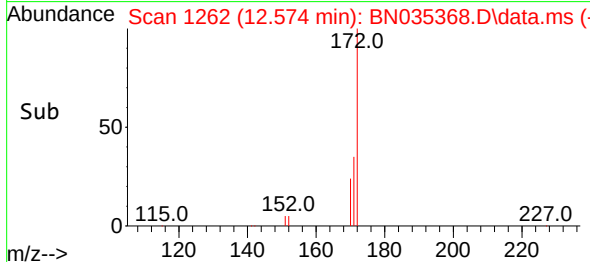
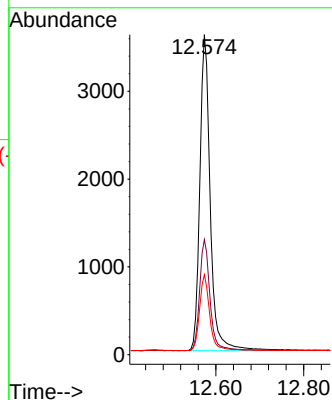
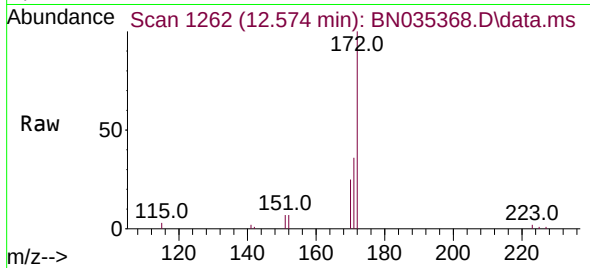




#15  
2-Fluorobiphenyl  
Concen: 0.402 ng  
RT: 12.574 min Scan# 11  
Delta R.T. -0.000 min  
Lab File: BN035368.D  
Acq: 28 Nov 2024 04:51

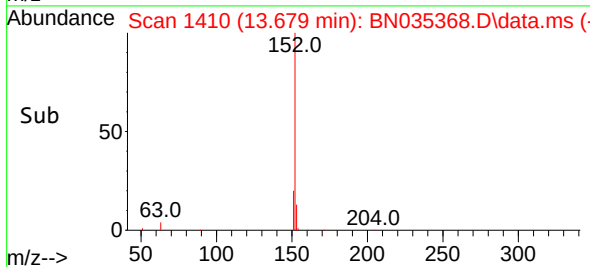
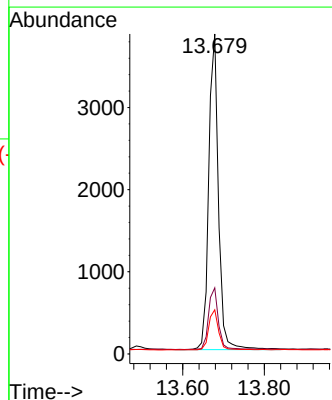
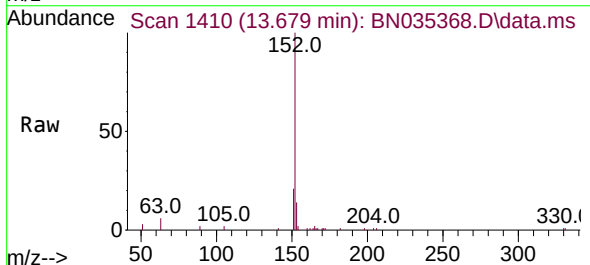
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDCCC0.4

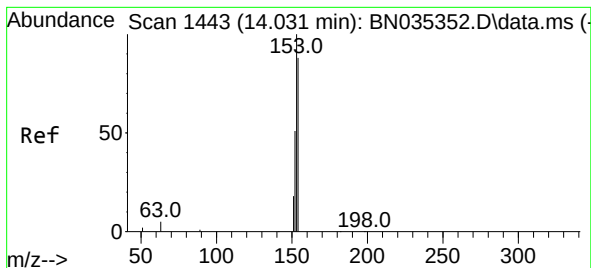
Tgt Ion:172 Resp: 5940  
Ion Ratio Lower Upper  
172 100  
171 36.0 29.0 43.4  
170 25.0 19.8 29.8



#16  
Acenaphthylene  
Concen: 0.388 ng  
RT: 13.679 min Scan# 1410  
Delta R.T. -0.000 min  
Lab File: BN035368.D  
Acq: 28 Nov 2024 04:51

Tgt Ion:152 Resp: 6370  
Ion Ratio Lower Upper  
152 100  
151 19.7 16.2 24.2  
153 12.9 10.4 15.6





#17

Acenaphthene

Concen: 0.392 ng

RT: 14.031 min Scan# 1443

Delta R.T. -0.000 min

Lab File: BN035368.D

Acq: 28 Nov 2024 04:51

Instrument :

BNA\_N

ClientSampleId :

SSTDCCC0.4

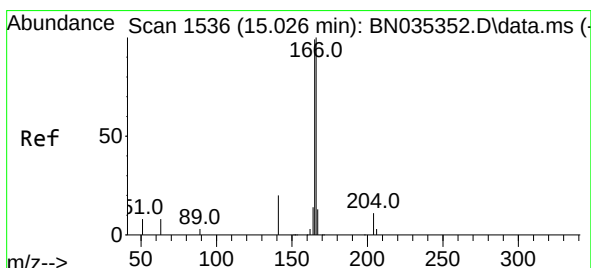
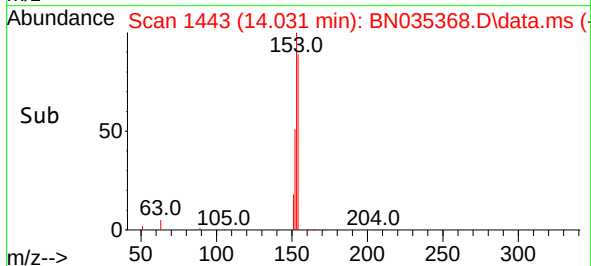
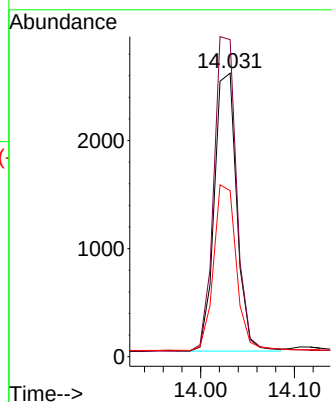
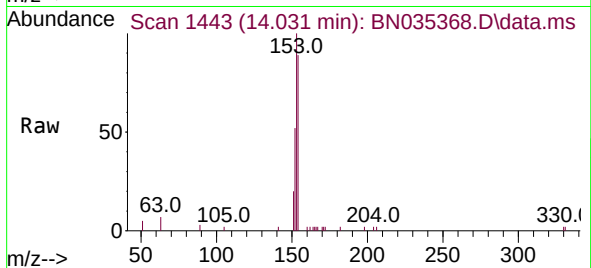
Tgt Ion:154 Resp: 4272

Ion Ratio Lower Upper

154 100

153 115.9 92.6 139.0

152 61.0 49.0 73.6



#18

Fluorene

Concen: 0.392 ng

RT: 15.026 min Scan# 1536

Delta R.T. -0.000 min

Lab File: BN035368.D

Acq: 28 Nov 2024 04:51

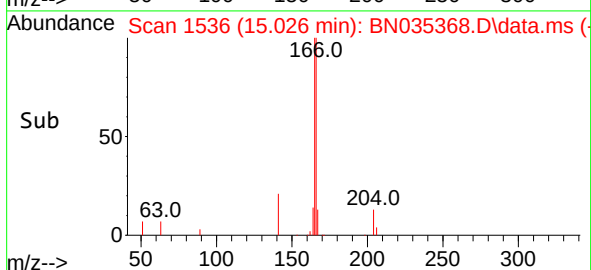
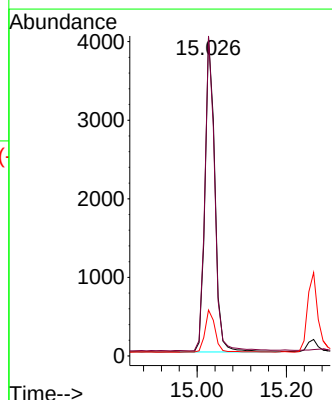
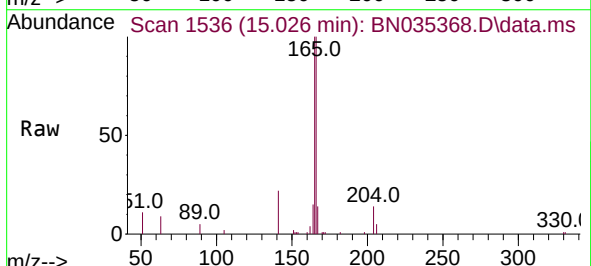
Tgt Ion:166 Resp: 6118

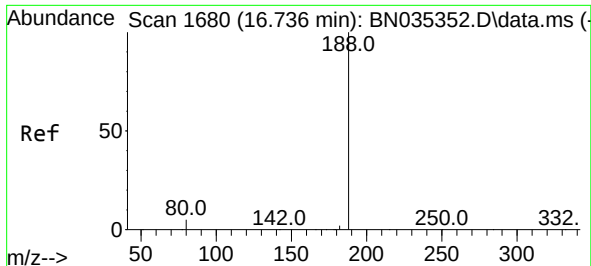
Ion Ratio Lower Upper

166 100

165 99.0 79.7 119.5

167 13.9 10.8 16.2





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 16.723 min Scan# 1

Delta R.T. -0.012 min

Lab File: BN035368.D

Acq: 28 Nov 2024 04:51

Instrument :

BNA\_N

ClientSampleId :

SSTDCCC0.4

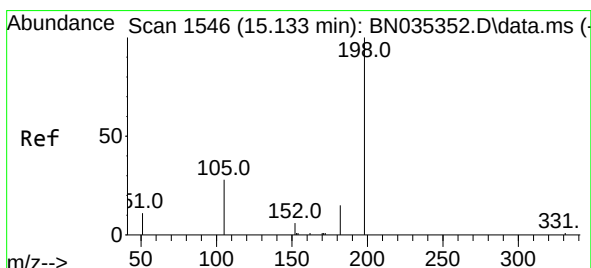
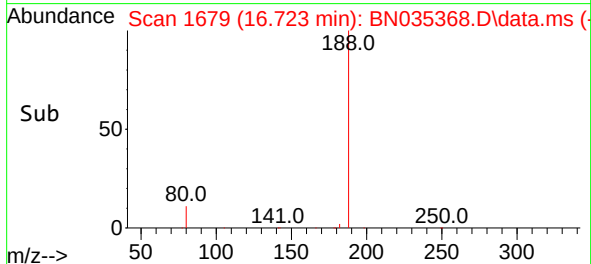
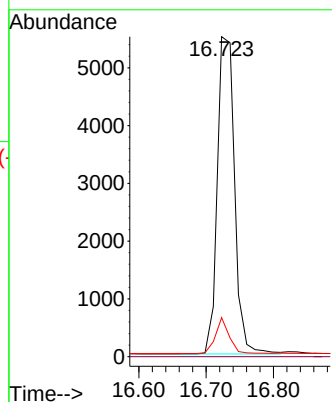
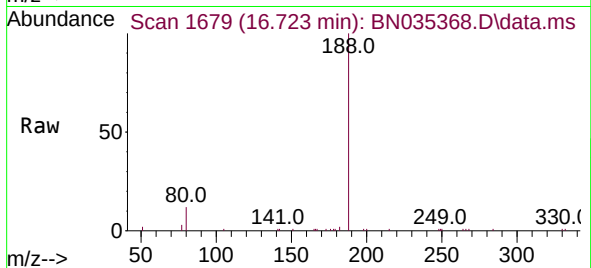
Tgt Ion:188 Resp: 9758

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 12.2 4.6 6.8#



#20

4,6-Dinitro-2-methylphenol

Concen: 0.364 ng

RT: 15.132 min Scan# 1546

Delta R.T. -0.001 min

Lab File: BN035368.D

Acq: 28 Nov 2024 04:51

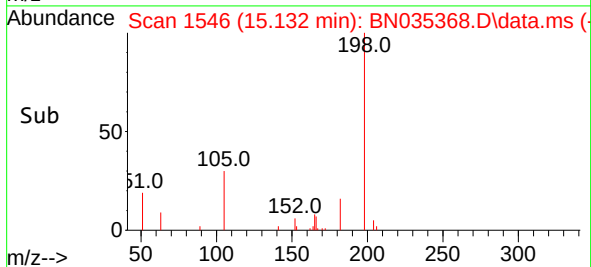
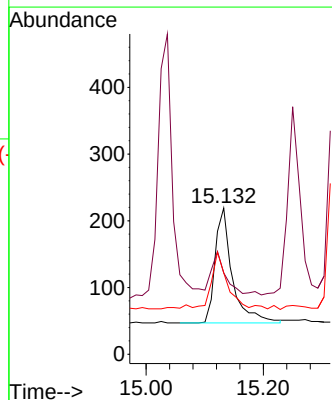
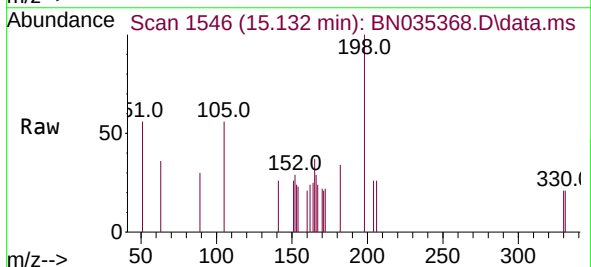
Tgt Ion:198 Resp: 349

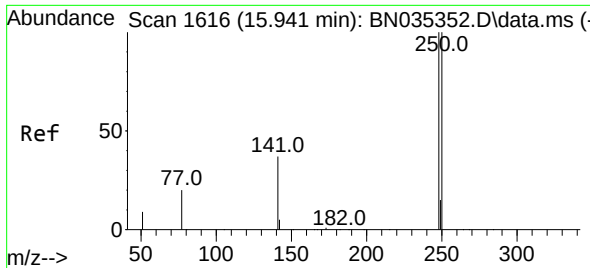
Ion Ratio Lower Upper

198 100

51 55.7 46.5 69.7

105 55.7 45.3 67.9

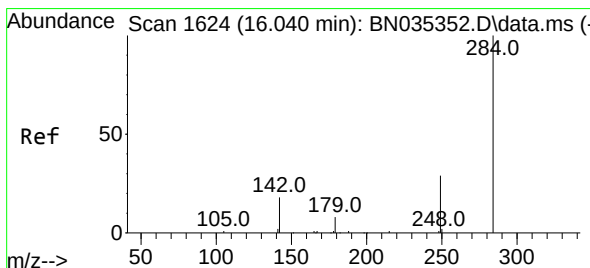
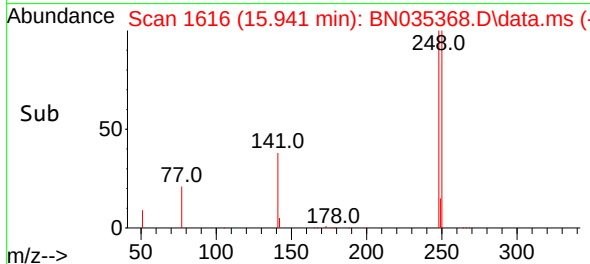
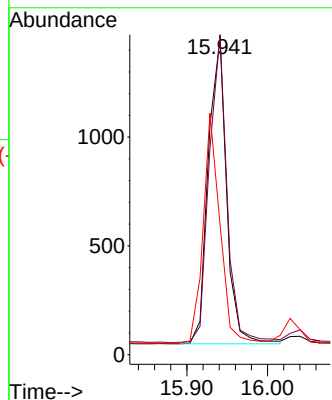
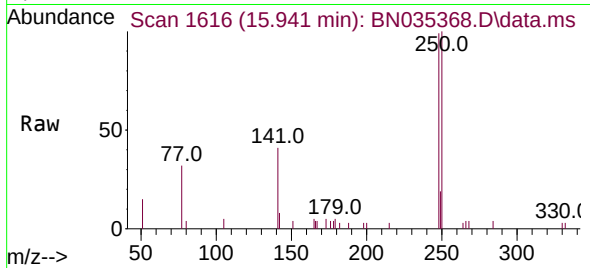




#21  
4-Bromophenyl-phenylether  
Concen: 0.388 ng  
RT: 15.941 min Scan# 1616  
Delta R.T. -0.000 min  
Lab File: BN035368.D  
Acq: 28 Nov 2024 04:51

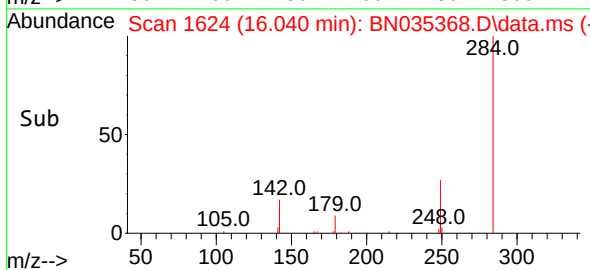
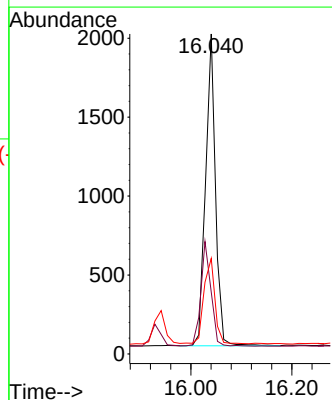
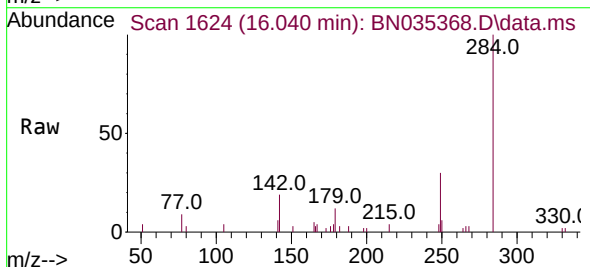
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDCCC0.4

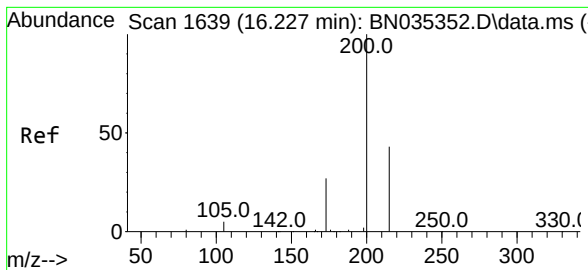
Tgt Ion:248 Resp: 2214  
Ion Ratio Lower Upper  
248 100  
250 101.0 80.6 120.8  
141 41.1 31.5 47.3



#22  
Hexachlorobenzene  
Concen: 0.405 ng  
RT: 16.040 min Scan# 1624  
Delta R.T. -0.000 min  
Lab File: BN035368.D  
Acq: 28 Nov 2024 04:51

Tgt Ion:284 Resp: 2712  
Ion Ratio Lower Upper  
284 100  
142 34.0 26.7 40.1  
249 30.5 24.6 36.8





#23

Atrazine

Concen: 0.362 ng

RT: 16.227 min Scan# 1639

Delta R.T. -0.000 min

Lab File: BN035368.D

Acq: 28 Nov 2024 04:51

Instrument :

BNA\_N

ClientSampleId :

SSTDCCC0.4

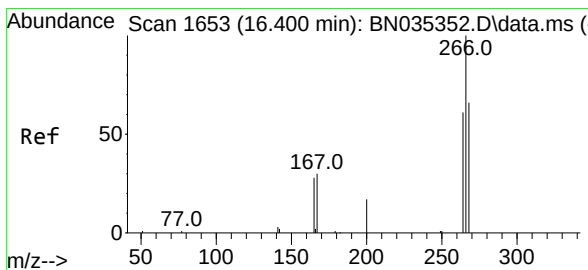
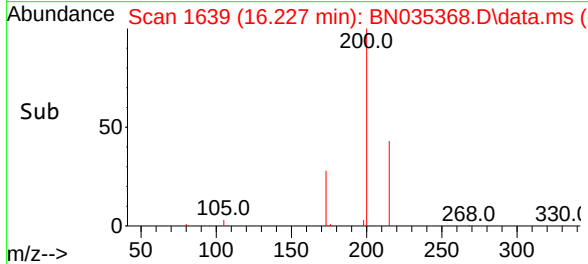
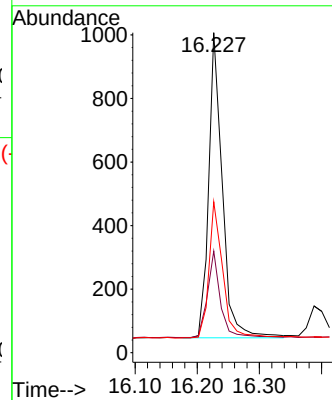
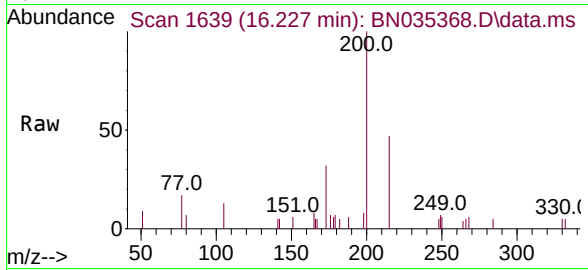
Tgt Ion:200 Resp: 1469

Ion Ratio Lower Upper

200 100

173 31.8 24.1 36.1

215 47.2 36.9 55.3



#24

Pentachlorophenol

Concen: 0.380 ng

RT: 16.400 min Scan# 1653

Delta R.T. -0.000 min

Lab File: BN035368.D

Acq: 28 Nov 2024 04:51

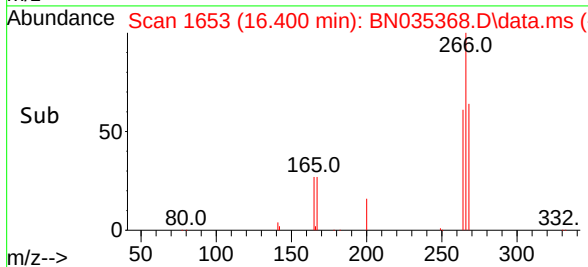
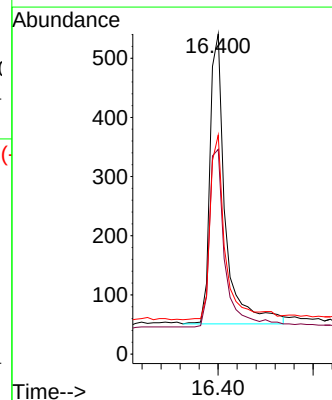
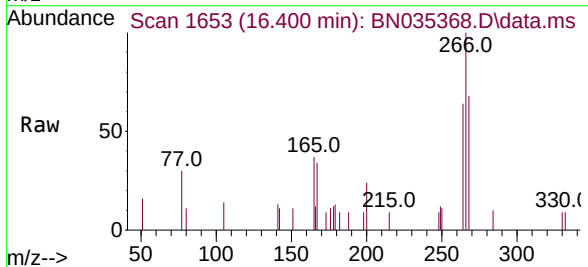
Tgt Ion:266 Resp: 1108

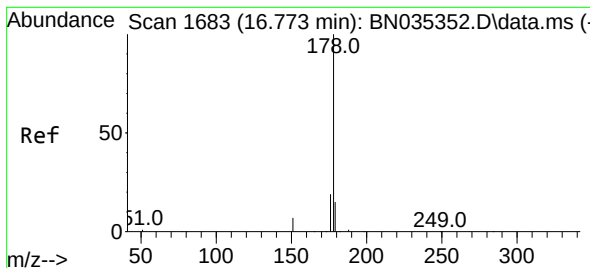
Ion Ratio Lower Upper

266 100

264 62.3 42.3 63.5

268 62.8 43.3 64.9





#25

Phenanthrene

Concen: 0.389 ng

RT: 16.773 min Scan# 1683

Delta R.T. -0.000 min

Lab File: BN035368.D

Acq: 28 Nov 2024 04:51

Instrument :

BNA\_N

ClientSampleId :

SSTDCCC0.4

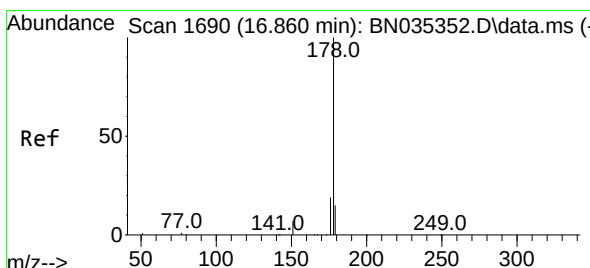
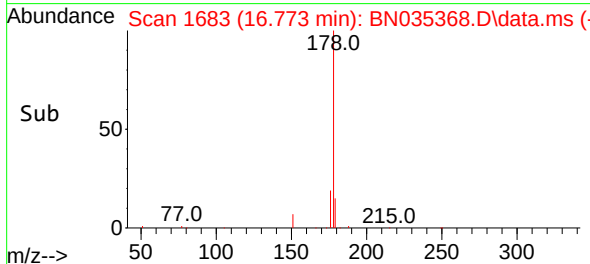
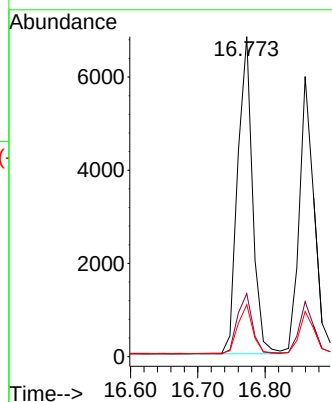
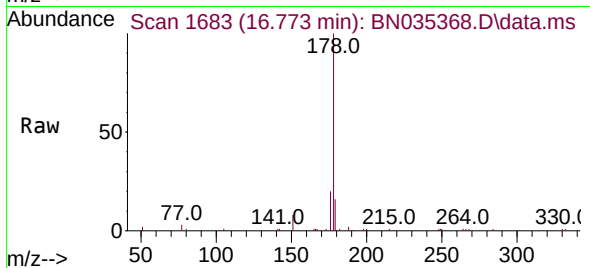
Tgt Ion:178 Resp: 10414

Ion Ratio Lower Upper

178 100

176 19.3 15.4 23.2

179 15.4 12.3 18.5



#26

Anthracene

Concen: 0.380 ng

RT: 16.860 min Scan# 1690

Delta R.T. -0.000 min

Lab File: BN035368.D

Acq: 28 Nov 2024 04:51

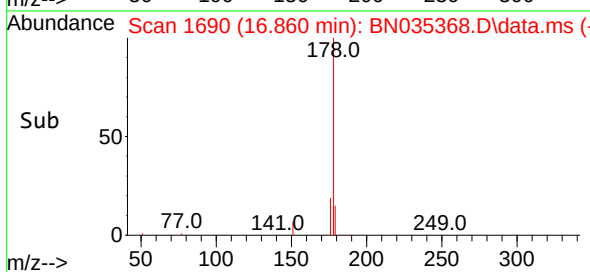
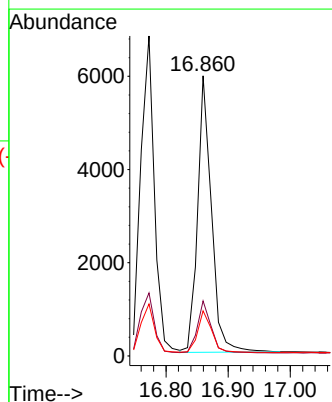
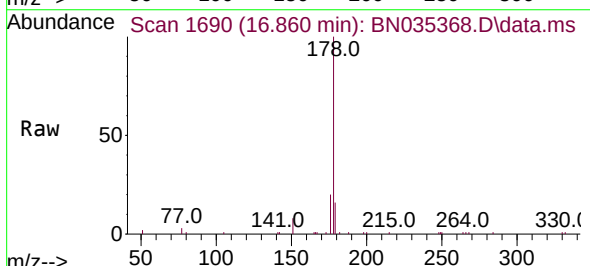
Tgt Ion:178 Resp: 9214

Ion Ratio Lower Upper

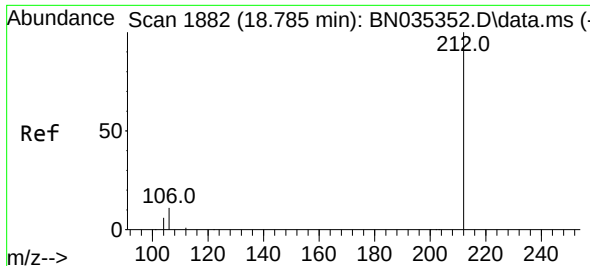
178 100

176 18.9 15.0 22.6

179 15.4 12.6 18.8



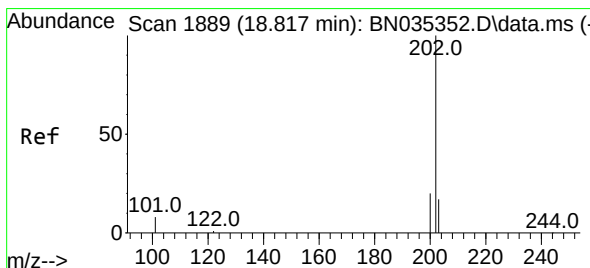
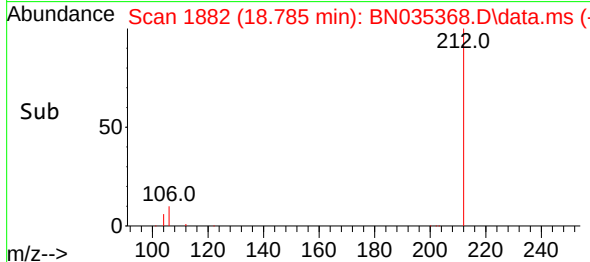
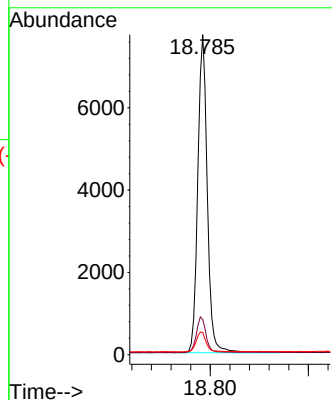
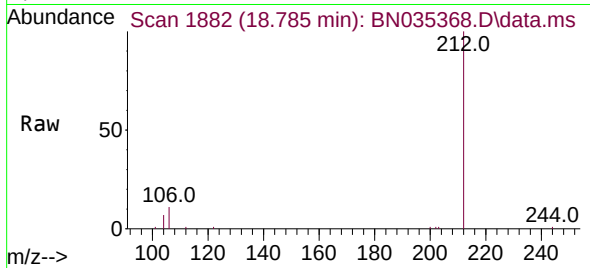




#27  
Fluoranthene-d10  
Concen: 0.376 ng  
RT: 18.785 min Scan# 1882  
Delta R.T. -0.000 min  
Lab File: BN035368.D  
Acq: 28 Nov 2024 04:51

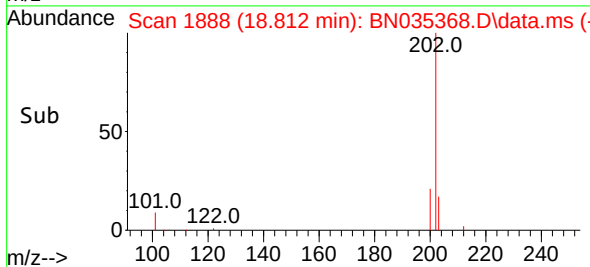
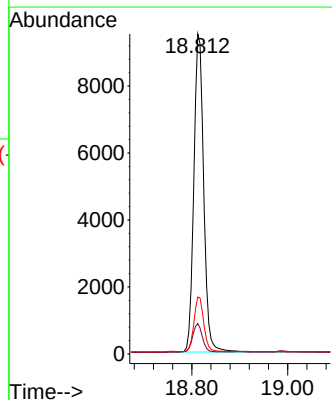
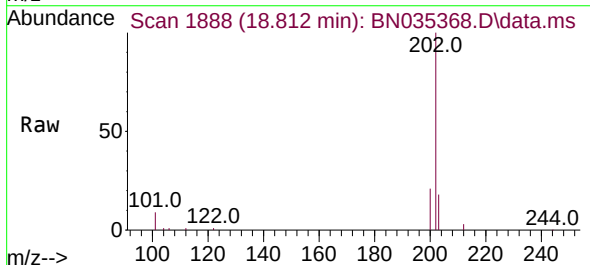
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDCCC0.4

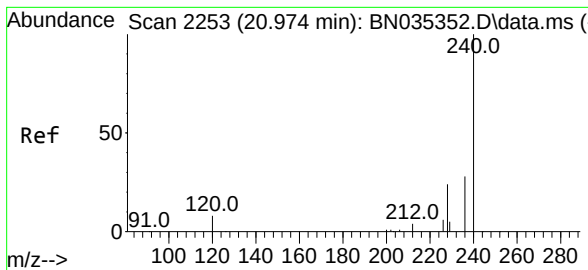
Tgt Ion:212 Resp: 10388  
Ion Ratio Lower Upper  
212 100  
106 11.1 9.2 13.8  
104 6.4 5.3 7.9



#28  
Fluoranthene  
Concen: 0.375 ng  
RT: 18.812 min Scan# 1888  
Delta R.T. -0.005 min  
Lab File: BN035368.D  
Acq: 28 Nov 2024 04:51

Tgt Ion:202 Resp: 13563  
Ion Ratio Lower Upper  
202 100  
101 9.1 7.4 11.0  
203 17.1 13.7 20.5





#29

Chrysene-d12

Concen: 0.400 ng

RT: 20.974 min Scan# 21

Delta R.T. -0.000 min

Lab File: BN035368.D

Acq: 28 Nov 2024 04:51

Instrument :

BNA\_N

ClientSampleId :

SSTDCCC0.4

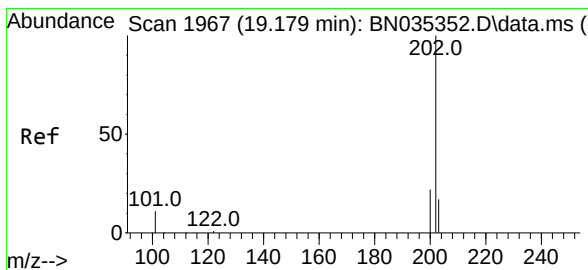
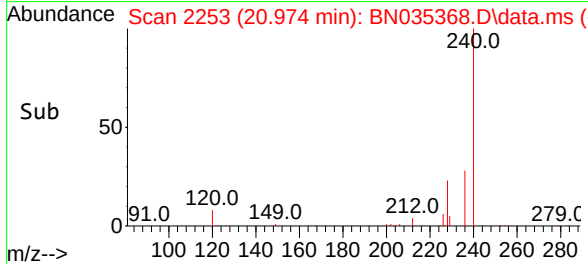
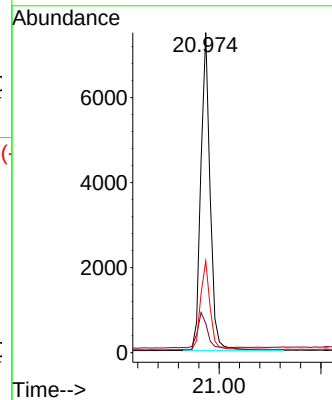
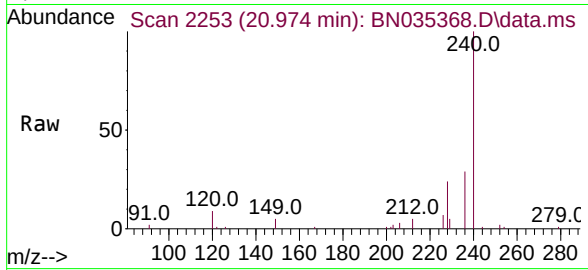
Tgt Ion:240 Resp: 9496

Ion Ratio Lower Upper

240 100

120 9.1 7.9 11.9

236 28.7 22.9 34.3



#30

Pyrene

Concen: 0.404 ng

RT: 19.184 min Scan# 1968

Delta R.T. 0.005 min

Lab File: BN035368.D

Acq: 28 Nov 2024 04:51

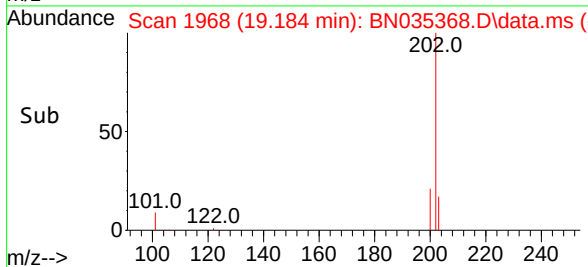
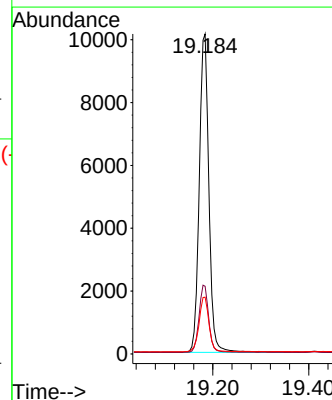
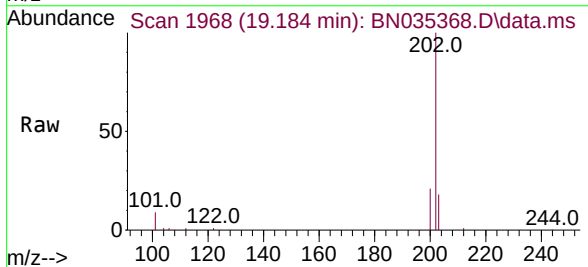
Tgt Ion:202 Resp: 14155

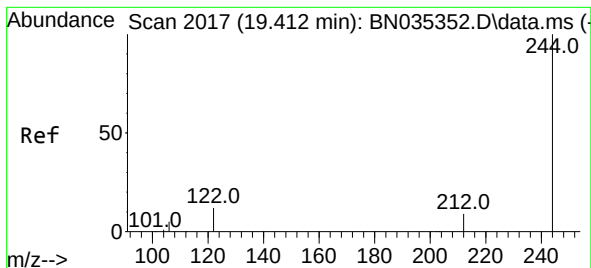
Ion Ratio Lower Upper

202 100

200 21.3 17.0 25.4

203 17.7 14.3 21.5





#31

Terphenyl-d14

Concen: 0.399 ng

RT: 19.412 min Scan# 2017

Delta R.T. -0.000 min

Lab File: BN035368.D

Acq: 28 Nov 2024 04:51

Instrument :

BNA\_N

ClientSampleId :

SSTDCCC0.4

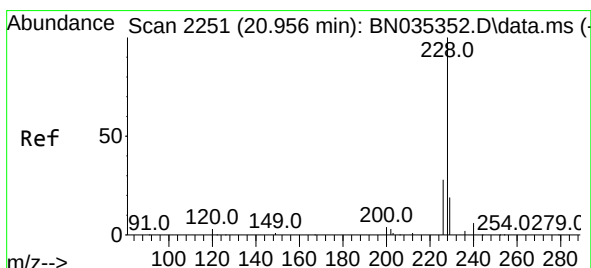
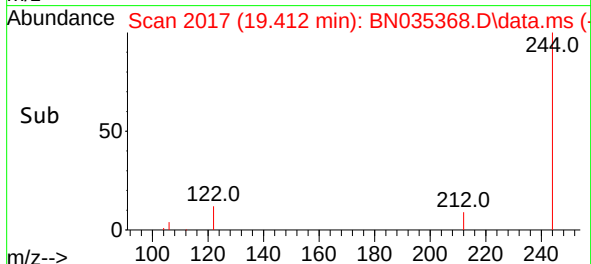
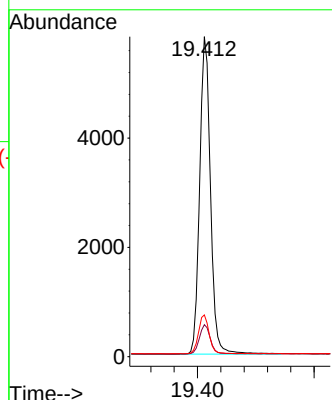
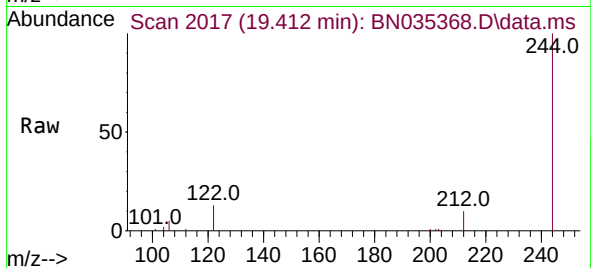
Tgt Ion:244 Resp: 7482

Ion Ratio Lower Upper

244 100

212 10.0 8.1 12.1

122 13.0 10.3 15.5



#32

Benzo(a)anthracene

Concen: 0.381 ng

RT: 20.956 min Scan# 2251

Delta R.T. -0.000 min

Lab File: BN035368.D

Acq: 28 Nov 2024 04:51

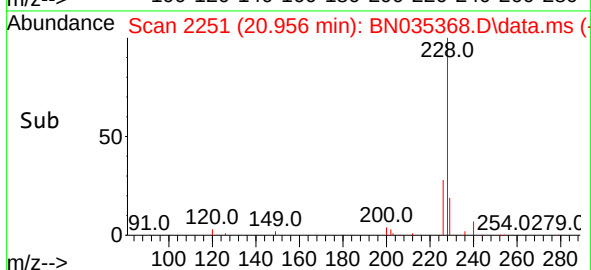
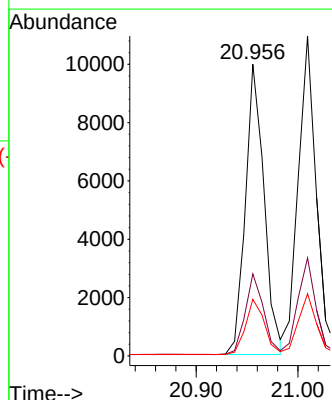
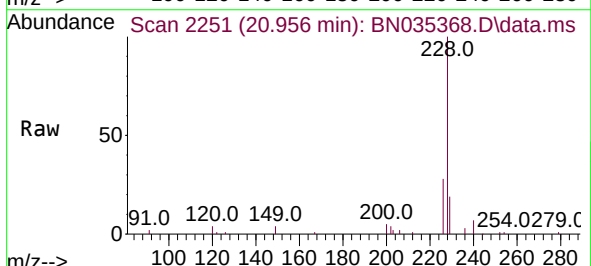
Tgt Ion:228 Resp: 12659

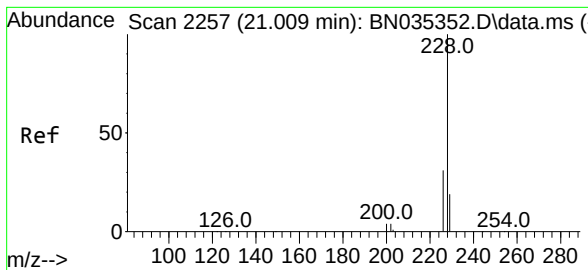
Ion Ratio Lower Upper

228 100

226 28.2 22.5 33.7

229 19.4 15.8 23.8





#33

Chrysene

Concen: 0.403 ng

RT: 21.009 min Scan# 21

Delta R.T. -0.000 min

Lab File: BN035368.D

Acq: 28 Nov 2024 04:51

Instrument :

BNA\_N

ClientSampleId :

SSTDCCC0.4

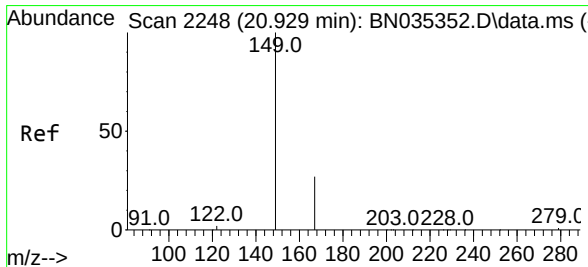
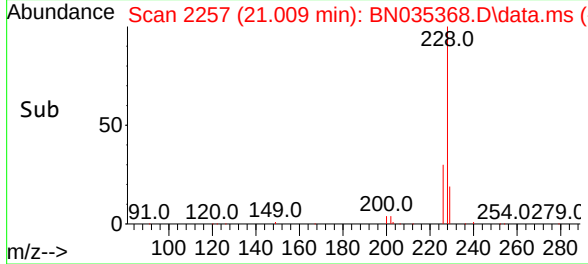
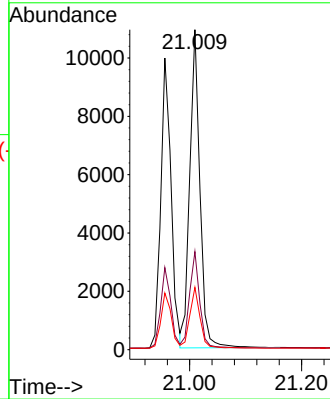
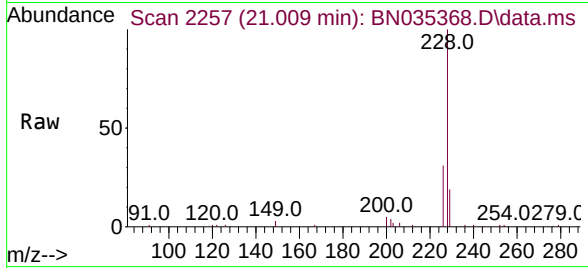
Tgt Ion:228 Resp: 13795

Ion Ratio Lower Upper

228 100

226 30.6 24.6 37.0

229 19.4 15.9 23.9



#34

Bis(2-ethylhexyl)phthalate

Concen: 0.365 ng

RT: 20.929 min Scan# 2248

Delta R.T. -0.000 min

Lab File: BN035368.D

Acq: 28 Nov 2024 04:51

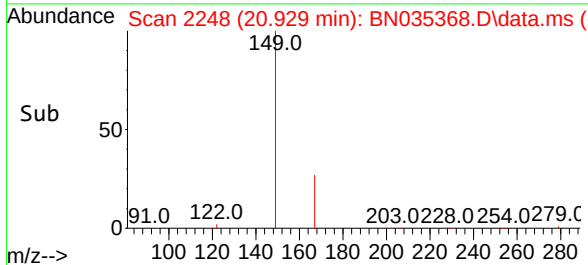
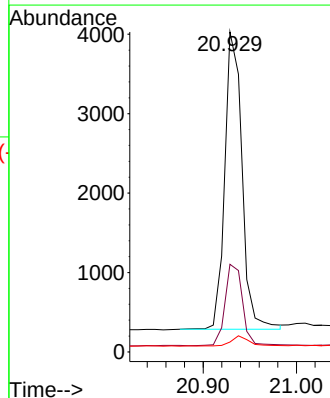
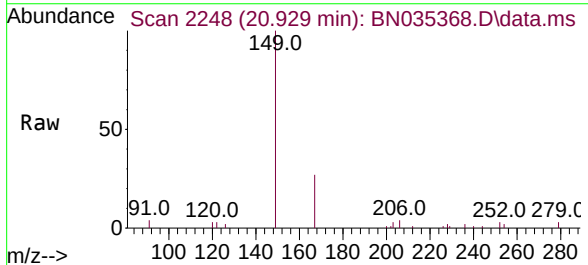
Tgt Ion:149 Resp: 4791

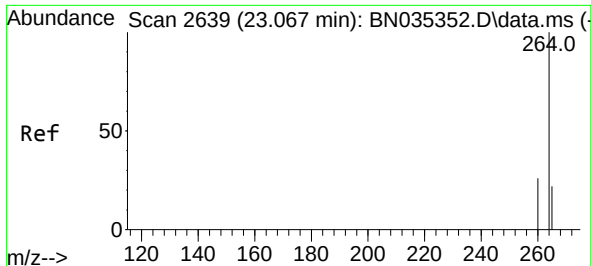
Ion Ratio Lower Upper

149 100

167 27.8 22.2 33.4

279 3.9 2.7 4.1

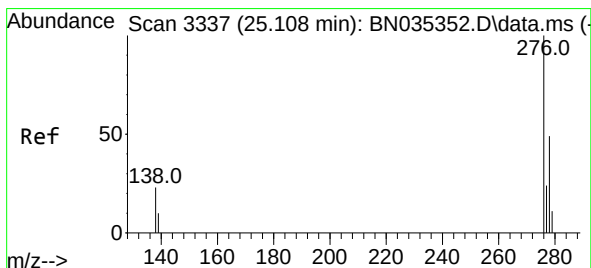
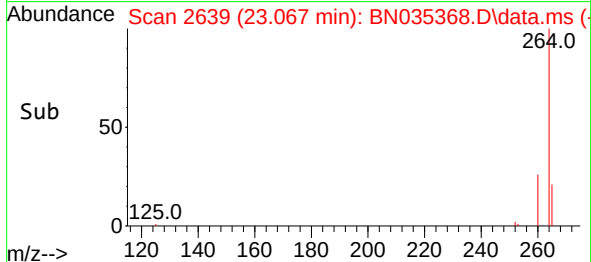
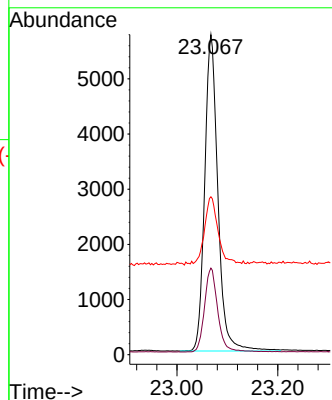
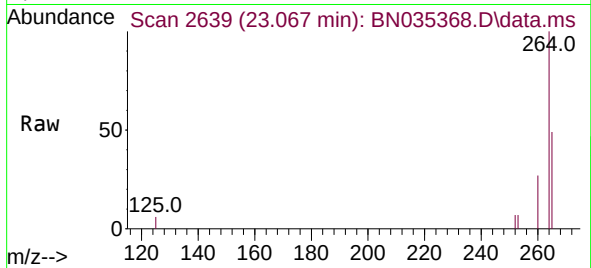




#35  
 Perylene-d12  
 Concen: 0.400 ng  
 RT: 23.067 min Scan# 20  
 Delta R.T. -0.000 min  
 Lab File: BN035368.D  
 Acq: 28 Nov 2024 04:51

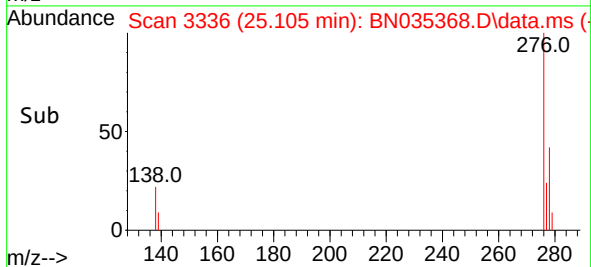
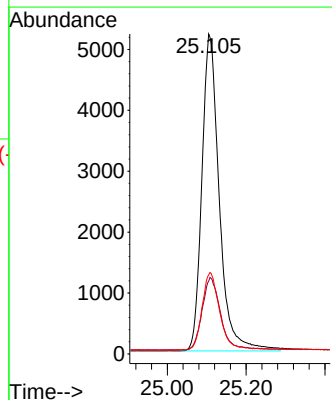
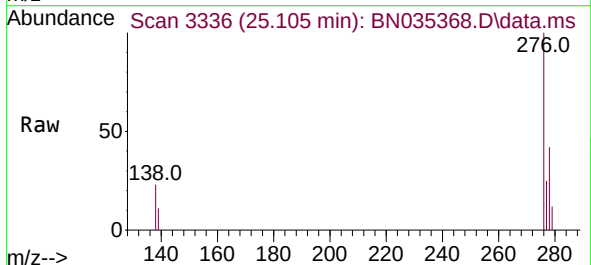
Instrument :  
 BNA\_N  
 ClientSampleId :  
 SSTDCCC0.4

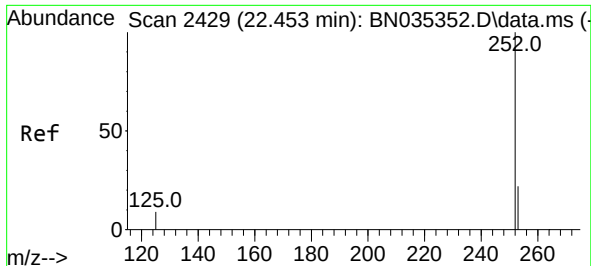
Tgt Ion:264 Resp: 10416  
 Ion Ratio Lower Upper  
 264 100  
 260 27.0 21.4 32.2  
 265 49.4 40.2 60.4



#36  
 Indeno(1,2,3-cd)pyrene  
 Concen: 0.392 ng  
 RT: 25.105 min Scan# 3336  
 Delta R.T. -0.003 min  
 Lab File: BN035368.D  
 Acq: 28 Nov 2024 04:51

Tgt Ion:276 Resp: 15947  
 Ion Ratio Lower Upper  
 276 100  
 138 23.2 19.4 29.0  
 277 24.5 19.8 29.6

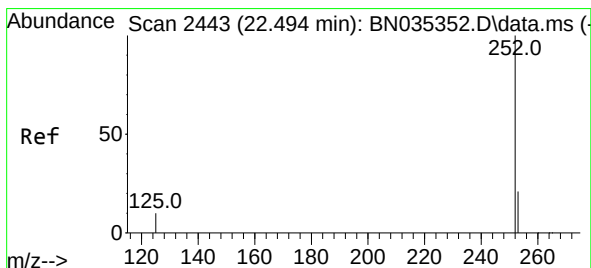
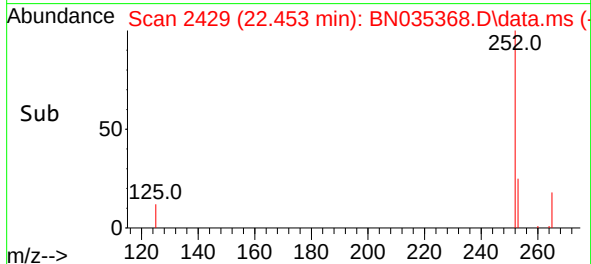
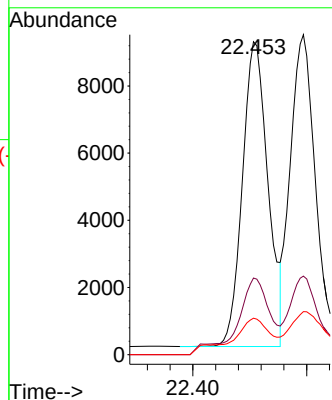
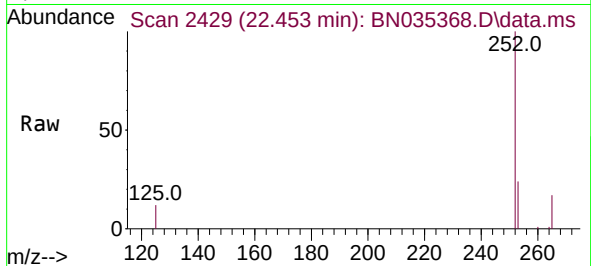




#37  
Benzo(b)fluoranthene  
Concen: 0.431 ng  
RT: 22.453 min Scan# 2429  
Delta R.T. -0.000 min  
Lab File: BN035368.D  
Acq: 28 Nov 2024 04:51

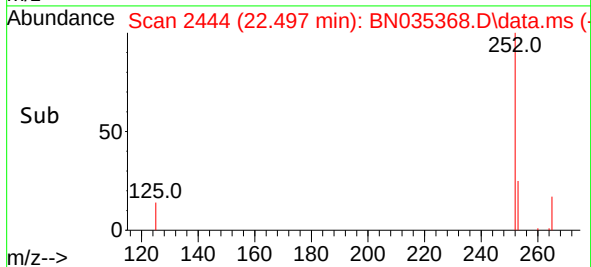
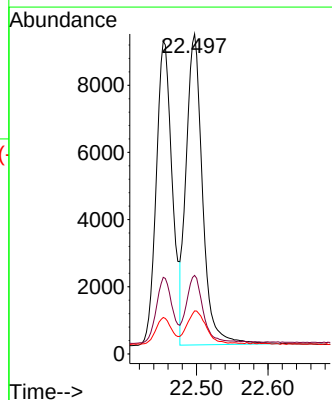
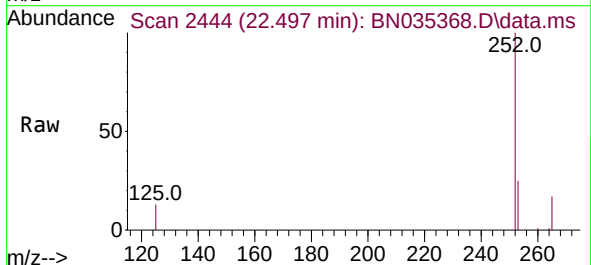
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDCCC0.4

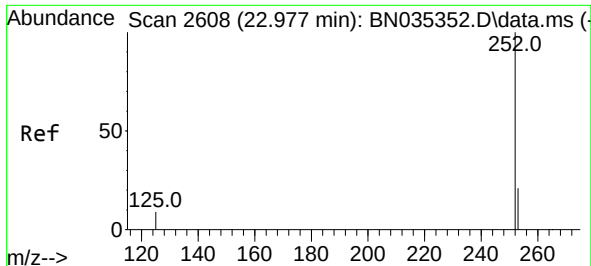
Tgt Ion:252 Resp: 16437  
Ion Ratio Lower Upper  
252 100  
253 24.5 19.6 29.4  
125 11.7 9.6 14.4



#38  
Benzo(k)fluoranthene  
Concen: 0.391 ng  
RT: 22.497 min Scan# 2444  
Delta R.T. 0.003 min  
Lab File: BN035368.D  
Acq: 28 Nov 2024 04:51

Tgt Ion:252 Resp: 14678  
Ion Ratio Lower Upper  
252 100  
253 24.6 19.5 29.3  
125 13.4 10.2 15.4

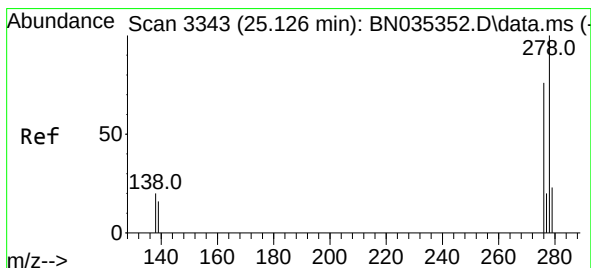
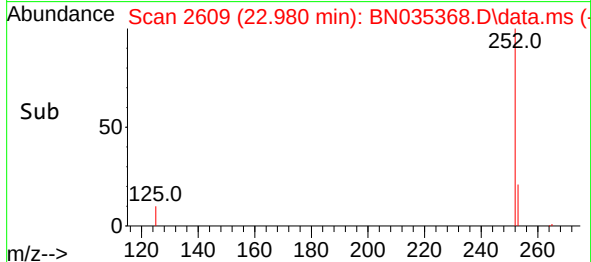
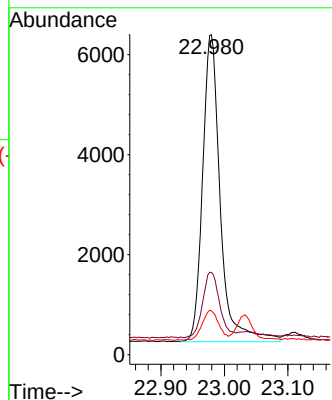
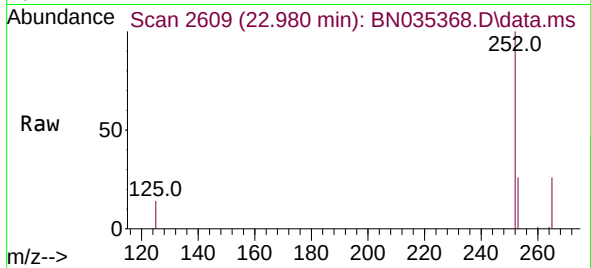




#39  
Benzo(a)pyrene  
Concen: 0.378 ng  
RT: 22.980 min Scan# 2609  
Delta R.T. 0.003 min  
Lab File: BN035368.D  
Acq: 28 Nov 2024 04:51

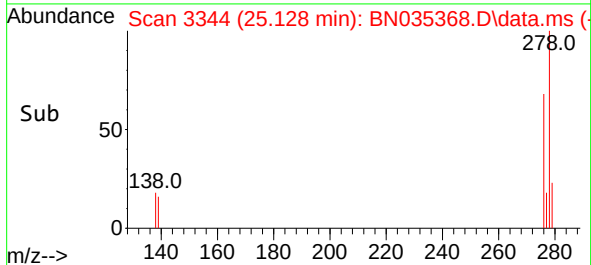
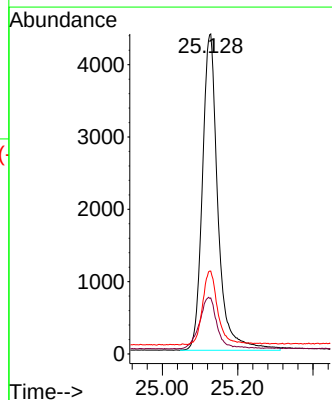
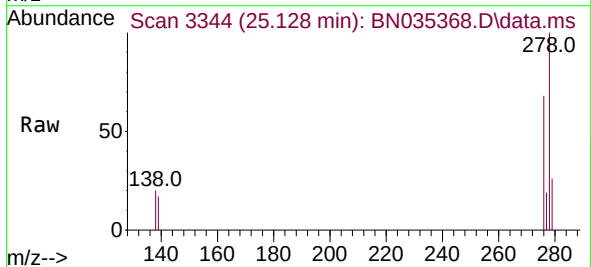
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDCCC0.4

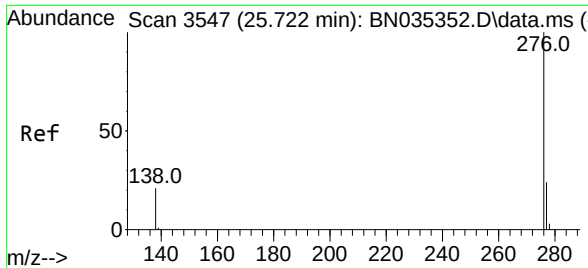
Tgt Ion:252 Resp: 11871  
Ion Ratio Lower Upper  
252 100  
253 25.7 20.2 30.4  
125 13.7 10.9 16.3



#40  
Dibenzo(a,h)anthracene  
Concen: 0.390 ng  
RT: 25.128 min Scan# 3344  
Delta R.T. 0.003 min  
Lab File: BN035368.D  
Acq: 28 Nov 2024 04:51

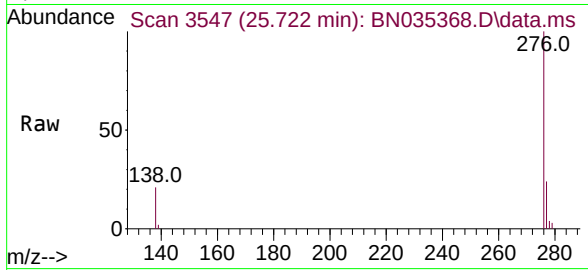
Tgt Ion:278 Resp: 12541  
Ion Ratio Lower Upper  
278 100  
139 17.5 14.2 21.4  
279 25.9 20.5 30.7



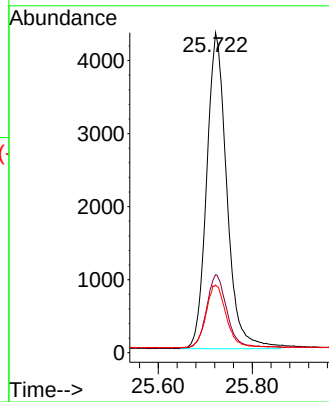
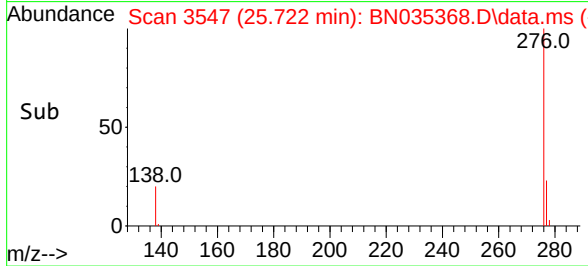


#41  
Benzo(g,h,i)perylene  
Concen: 0.383 ng  
RT: 25.722 min Scan# 31  
Delta R.T. -0.000 min  
Lab File: BN035368.D  
Acq: 28 Nov 2024 04:51

Instrument :  
BNA\_N  
ClientSampleId :  
SSTDCCC0.4



|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 276   | Resp: | 12859 |
| Ion      | Ratio | Lower | Upper |
| 276      | 100   |       |       |
| 277      | 24.4  | 19.9  | 29.9  |
| 138      | 21.2  | 17.8  | 26.8  |





Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN112724\  
 Data File : BN035369.D  
 Acq On : 28 Nov 2024 05:27  
 Operator : RC/JU  
 Sample : PB165198BL  
 Misc :  
 ALS Vial : 23 Sample Multiplier: 1

Instrument :  
 BNA\_N  
 ClientSampleId :  
 PB165198BL

Quant Time: Nov 28 06:02:04 2024  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\8270-SIM-BN112724.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Wed Nov 27 23:03:24 2024  
 Response via : Initial Calibration

| Compound                    | R.T.   | QIon | Response | Conc  | Units | Dev(Min) |
|-----------------------------|--------|------|----------|-------|-------|----------|
| -----                       |        |      |          |       |       |          |
| Internal Standards          |        |      |          |       |       |          |
| 1) 1,4-Dichlorobenzene-d4   | 7.308  | 152  | 2540     | 0.400 | ng    | 0.00     |
| 7) Naphthalene-d8           | 10.063 | 136  | 6378     | 0.400 | ng    | # 0.01   |
| 13) Acenaphthene-d10        | 13.967 | 164  | 4630     | 0.400 | ng    | 0.00     |
| 19) Phenanthrene-d10        | 16.735 | 188  | 11721    | 0.400 | ng    | 0.00     |
| 29) Chrysene-d12            | 20.974 | 240  | 10667    | 0.400 | ng    | 0.00     |
| 35) Perylene-d12            | 23.070 | 264  | 11480    | 0.400 | ng    | 0.00     |
|                             |        |      |          |       |       |          |
| System Monitoring Compounds |        |      |          |       |       |          |
| 4) 2-Fluorophenol           | 4.968  | 112  | 2145     | 0.337 | ng    | 0.00     |
| 5) Phenol-d6                | 6.513  | 99   | 2450     | 0.320 | ng    | 0.00     |
| 8) Nitrobenzene-d5          | 8.440  | 82   | 1657     | 0.425 | ng    | 0.00     |
| 11) 2-Methylnaphthalene-d10 | 11.661 | 152  | 4167     | 0.417 | ng    | 0.00     |
| 14) 2,4,6-Tribromophenol    | 15.485 | 330  | 675      | 0.205 | ng    | 0.01     |
| 15) 2-Fluorobiphenyl        | 12.579 | 172  | 6893     | 0.394 | ng    | 0.00     |
| 27) Fluoranthene-d10        | 18.784 | 212  | 13454    | 0.405 | ng    | 0.00     |
| 31) Terphenyl-d14           | 19.412 | 244  | 10274    | 0.488 | ng    | 0.00     |

Target Compounds Qvalue

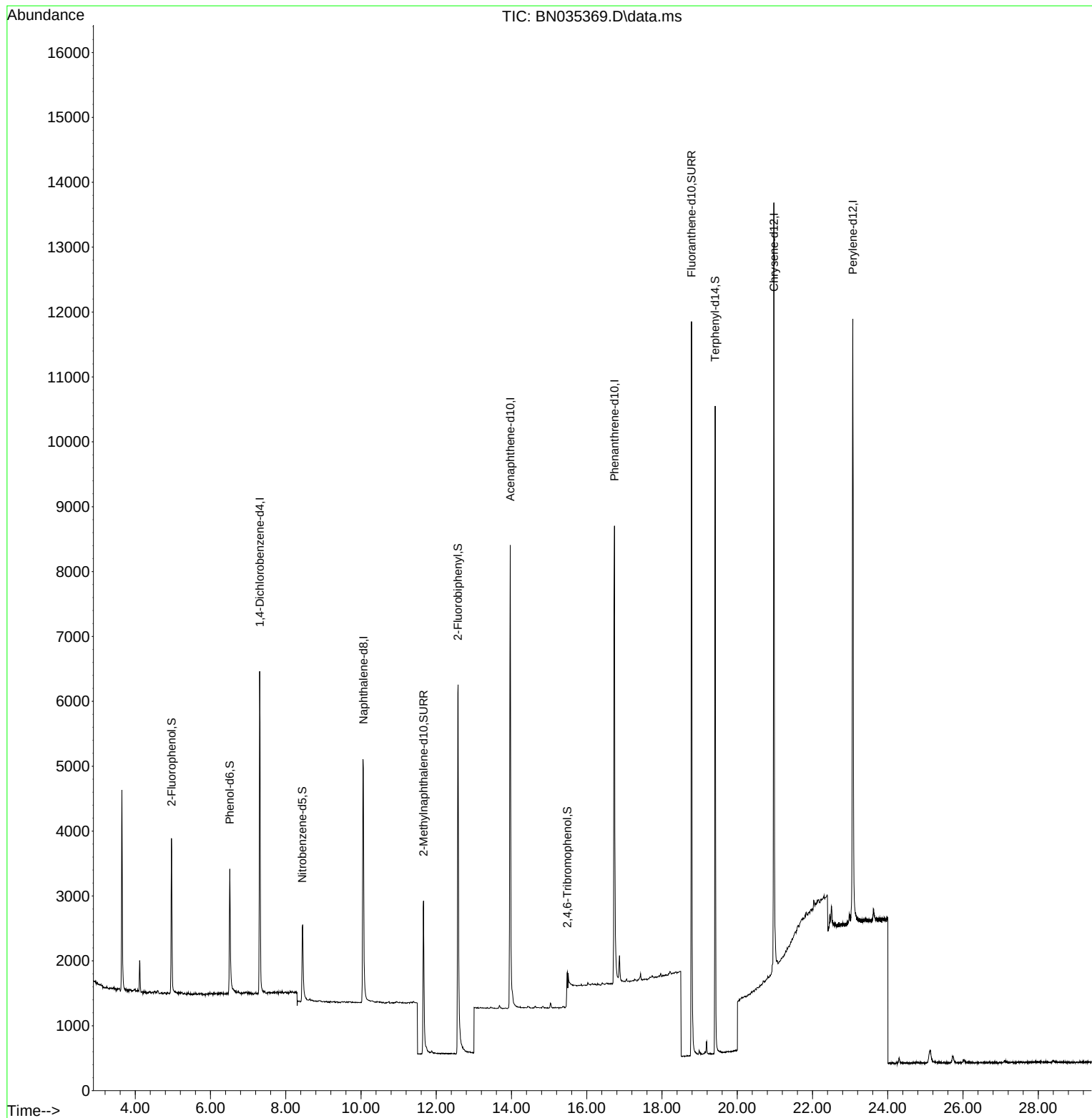
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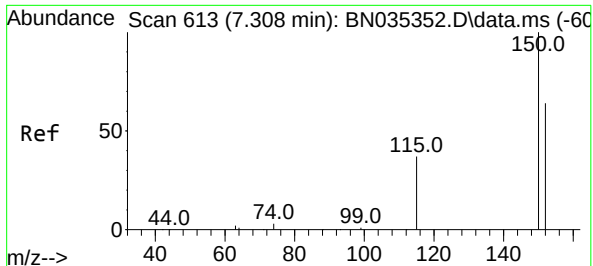
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN112724\  
Data File : BN035369.D  
Acq On : 28 Nov 2024 05:27  
Operator : RC/JU  
Sample : PB165198BL  
Misc :  
ALS Vial : 23 Sample Multiplier: 1

Instrument :  
BNA\_N  
ClientSampleId :  
PB165198BL

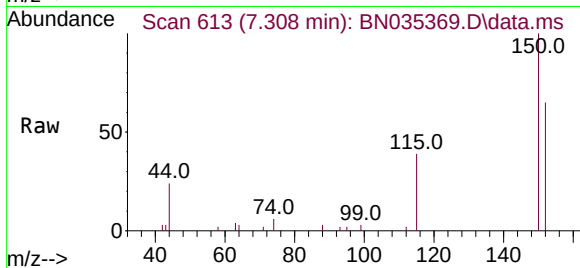
Quant Time: Nov 28 06:02:04 2024  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\8270-SIM-BN112724.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Wed Nov 27 23:03:24 2024  
Response via : Initial Calibration





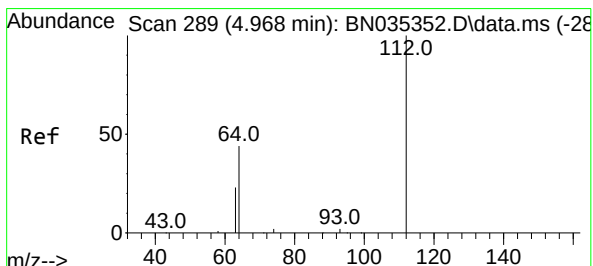
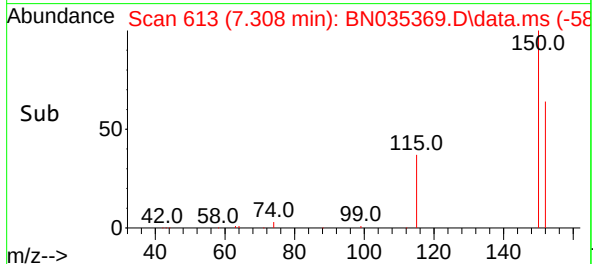
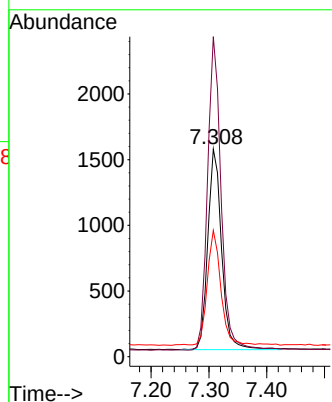
#1  
 1,4-Dichlorobenzene-d4  
 Concen: 0.400 ng  
 RT: 7.308 min Scan# 613  
 Delta R.T. -0.000 min  
 Lab File: BN035369.D  
 Acq: 28 Nov 2024 05:27

Instrument :  
 BNA\_N  
 ClientSampleId :  
 PB165198BL



Tgt Ion:152 Resp: 2540

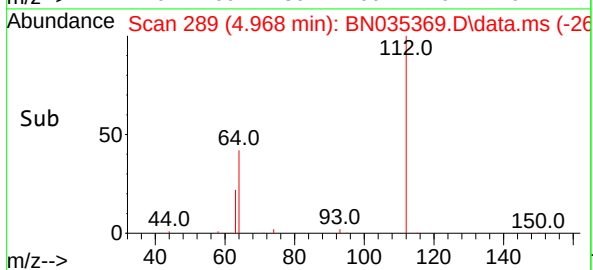
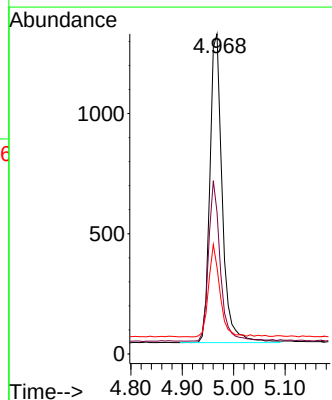
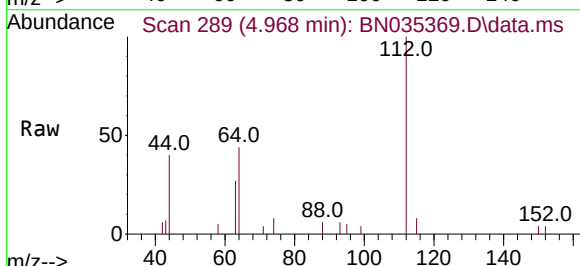
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 152 | 100   |       |       |
| 150 | 154.1 | 124.0 | 186.0 |
| 115 | 60.8  | 49.6  | 74.4  |

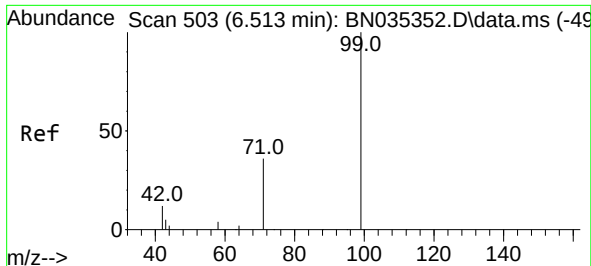


#4  
 2-Fluorophenol  
 Concen: 0.337 ng  
 RT: 4.968 min Scan# 289  
 Delta R.T. -0.000 min  
 Lab File: BN035369.D  
 Acq: 28 Nov 2024 05:27

Tgt Ion:112 Resp: 2145

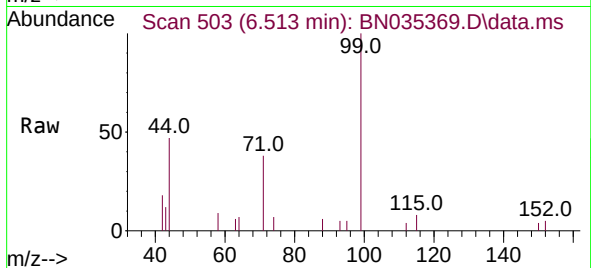
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 112 | 100   |       |       |
| 64  | 49.6  | 39.8  | 59.8  |
| 63  | 27.3  | 21.0  | 31.6  |



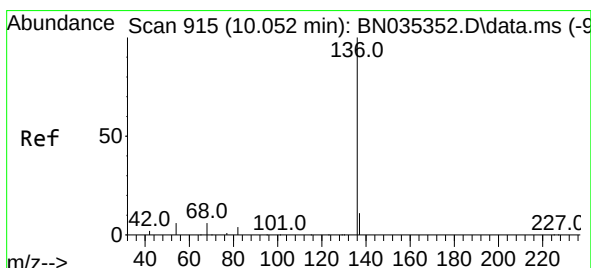
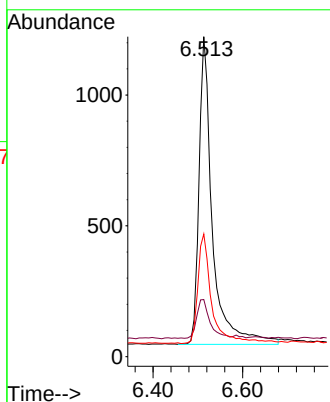
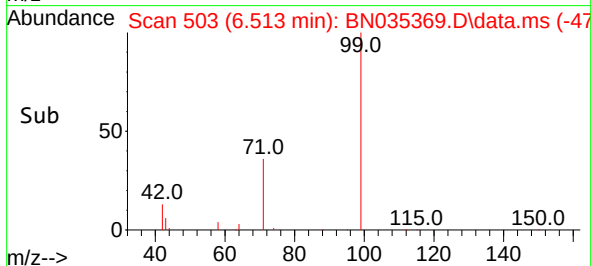


#5  
Phenol-d6  
Concen: 0.320 ng  
RT: 6.513 min Scan# 503  
Delta R.T. -0.000 min  
Lab File: BN035369.D  
Acq: 28 Nov 2024 05:27

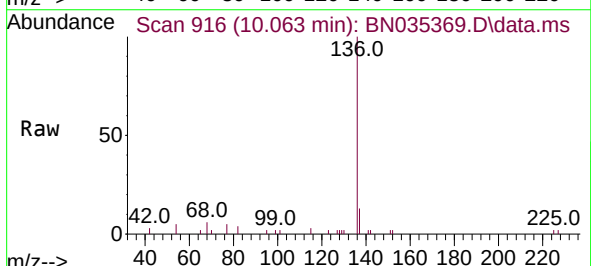
Instrument :  
BNA\_N  
ClientSampleId :  
PB165198BL



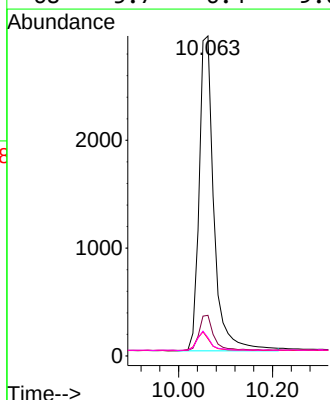
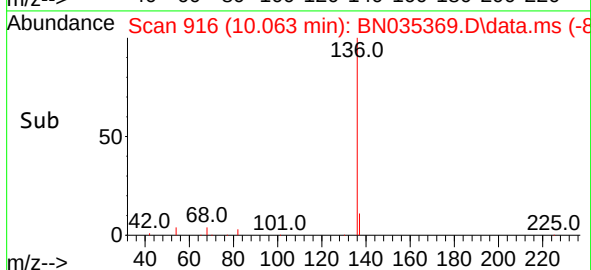
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 99    | Resp: | 2450  |
| Ion      | Ratio | Lower | Upper |
| 99       | 100   |       |       |
| 42       | 12.3  | 11.4  | 17.2  |
| 71       | 37.2  | 29.3  | 43.9  |

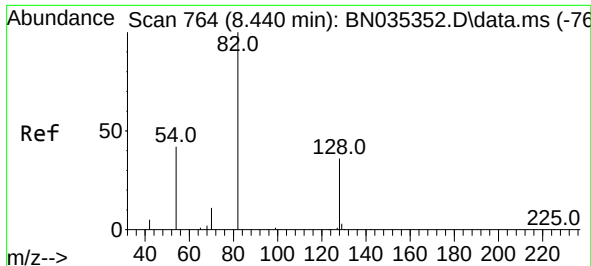


#7  
Naphthalene-d8  
Concen: 0.400 ng  
RT: 10.063 min Scan# 916  
Delta R.T. 0.011 min  
Lab File: BN035369.D  
Acq: 28 Nov 2024 05:27



|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 136   | Resp: | 6378  |
| Ion      | Ratio | Lower | Upper |
| 136      | 100   |       |       |
| 137      | 12.7  | 10.2  | 15.2  |
| 54       | 5.4   | 6.1   | 9.1#  |
| 68       | 5.7   | 6.4   | 9.6#  |

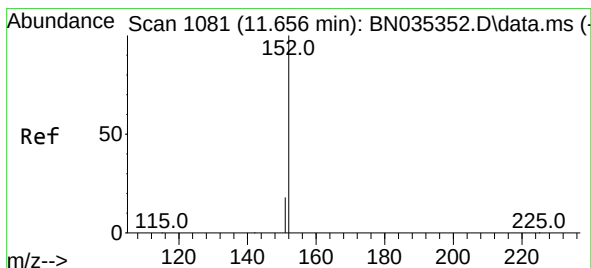
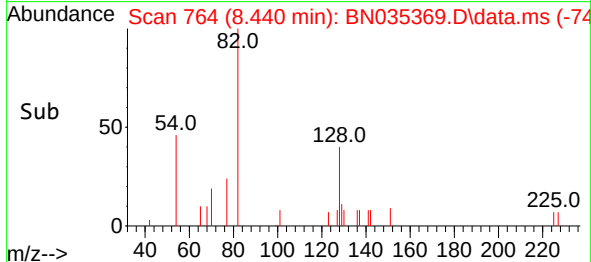
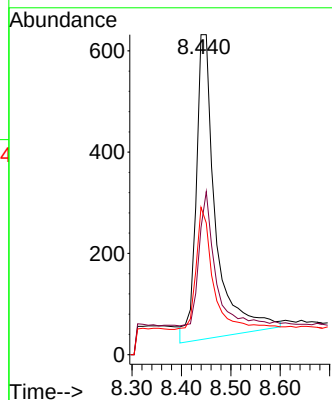
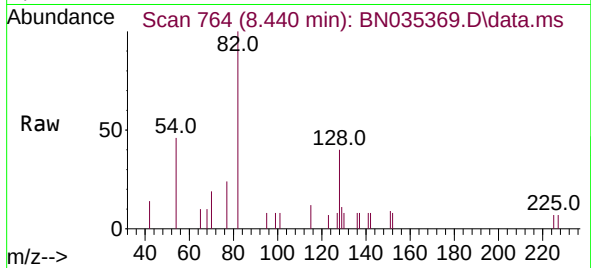




#8  
Nitrobenzene-d5  
Concen: 0.425 ng  
RT: 8.440 min Scan# 764  
Delta R.T. -0.000 min  
Lab File: BN035369.D  
Acq: 28 Nov 2024 05:27

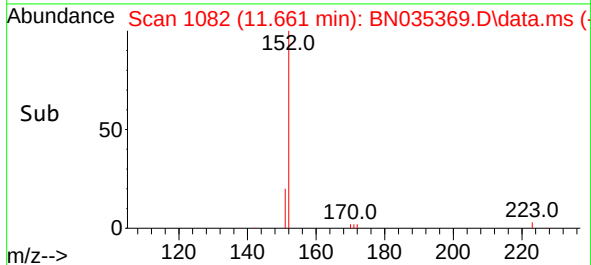
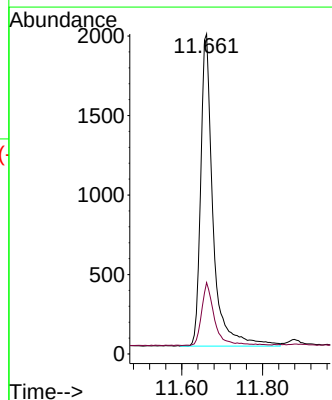
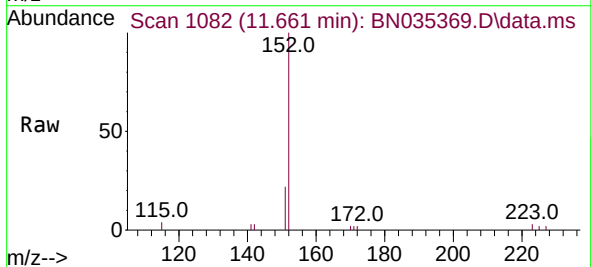
Instrument :  
BNA\_N  
ClientSampleId :  
PB165198BL

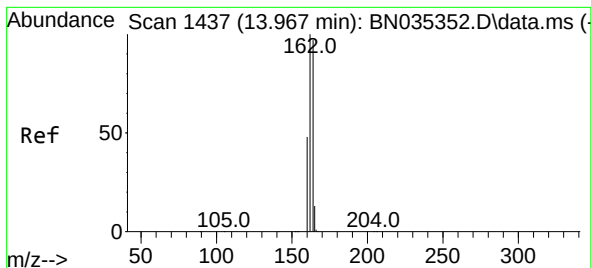
Tgt Ion: 82 Resp: 1657  
Ion Ratio Lower Upper  
82 100  
128 39.7 33.4 50.0  
54 46.0 36.7 55.1



#11  
2-Methylnaphthalene-d10  
Concen: 0.417 ng  
RT: 11.661 min Scan# 1082  
Delta R.T. 0.005 min  
Lab File: BN035369.D  
Acq: 28 Nov 2024 05:27

Tgt Ion:152 Resp: 4167  
Ion Ratio Lower Upper  
152 100  
151 19.9 16.6 25.0





#13

Acenaphthene-d10

Concen: 0.400 ng

RT: 13.967 min Scan# 1437

Delta R.T. -0.000 min

Lab File: BN035369.D

Acq: 28 Nov 2024 05:27

Instrument :

BNA\_N

ClientSampleId :

PB165198BL

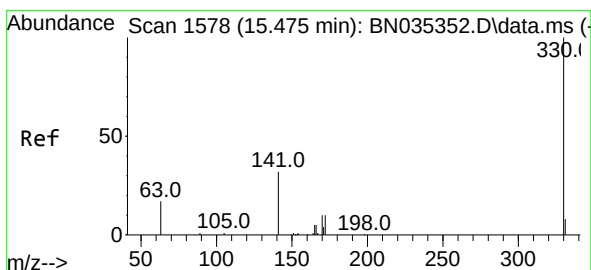
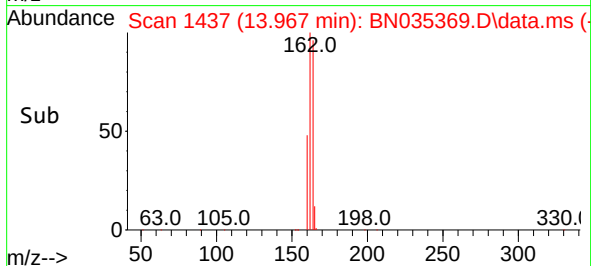
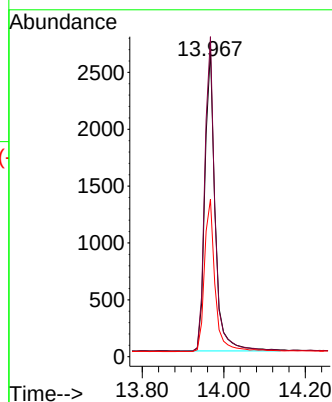
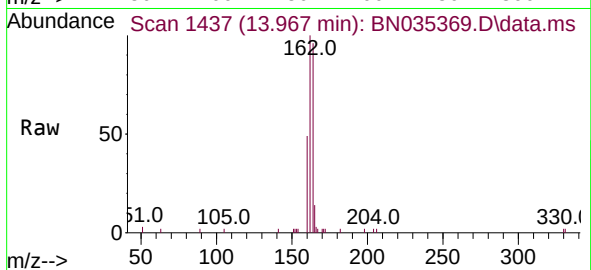
Tgt Ion:164 Resp: 4630

Ion Ratio Lower Upper

164 100

162 104.4 82.2 123.2

160 51.4 40.1 60.1



#14

2,4,6-Tribromophenol

Concen: 0.205 ng

RT: 15.485 min Scan# 1579

Delta R.T. 0.011 min

Lab File: BN035369.D

Acq: 28 Nov 2024 05:27

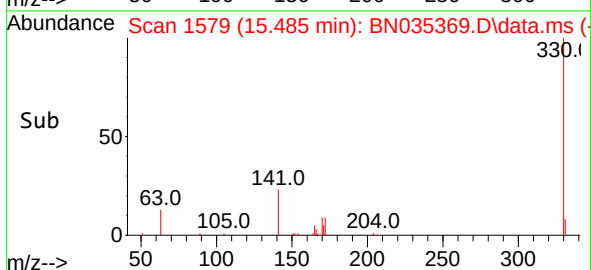
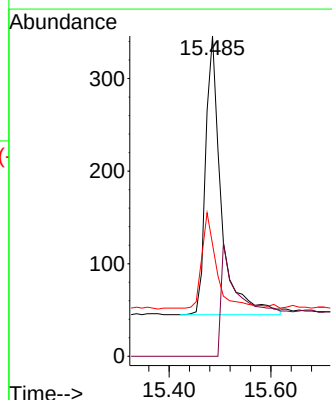
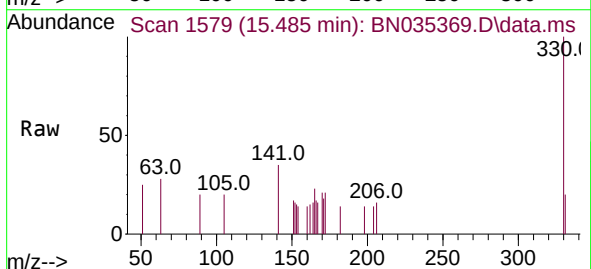
Tgt Ion:330 Resp: 675

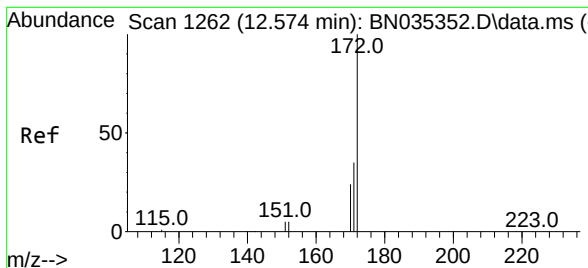
Ion Ratio Lower Upper

330 100

332 0.0 0.0 0.0

141 33.8 26.6 40.0





#15

2-Fluorobiphenyl

Concen: 0.394 ng

RT: 12.579 min Scan# 1263

Delta R.T. 0.005 min

Lab File: BN035369.D

Acq: 28 Nov 2024 05:27

Instrument :

BNA\_N

ClientSampleId :

PB165198BL

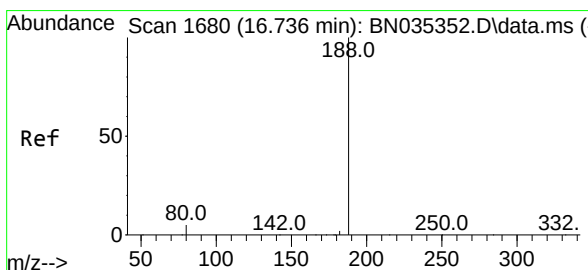
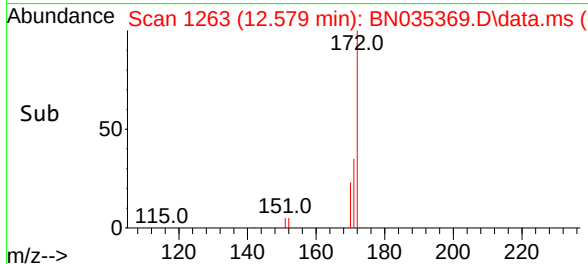
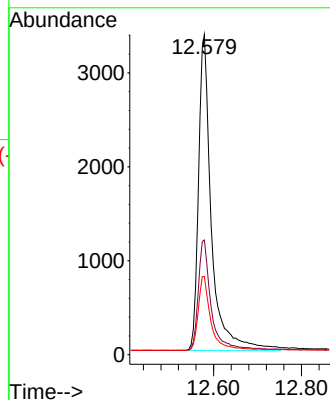
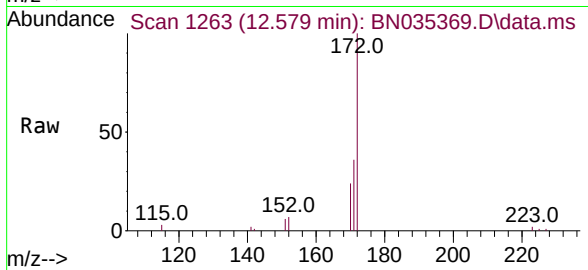
Tgt Ion:172 Resp: 6893

Ion Ratio Lower Upper

172 100

171 35.9 29.0 43.4

170 24.5 19.8 29.8



#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 16.735 min Scan# 1680

Delta R.T. -0.000 min

Lab File: BN035369.D

Acq: 28 Nov 2024 05:27

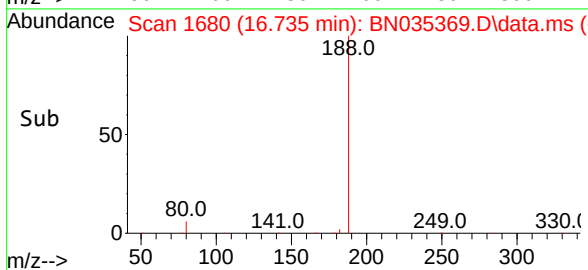
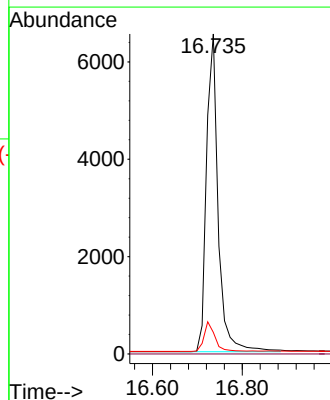
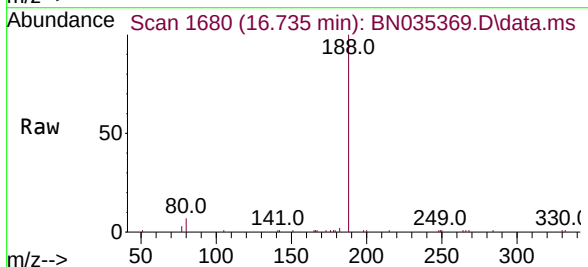
Tgt Ion:188 Resp: 11721

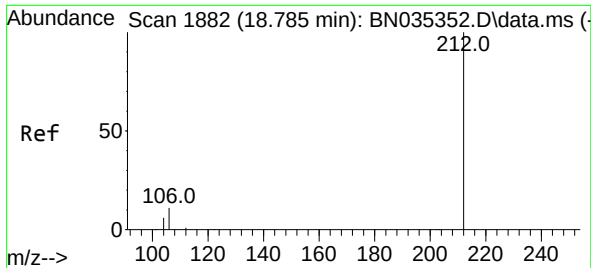
Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 6.8 4.6 6.8

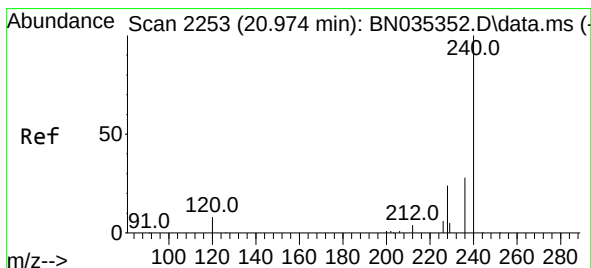
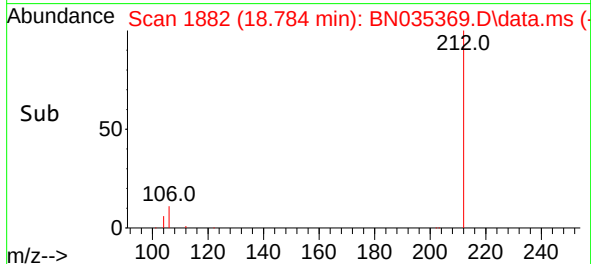
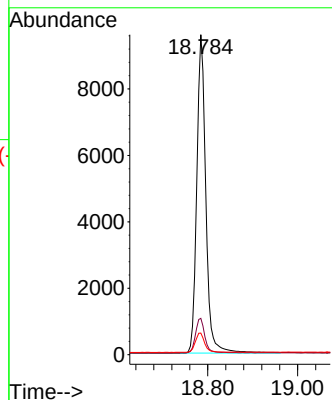
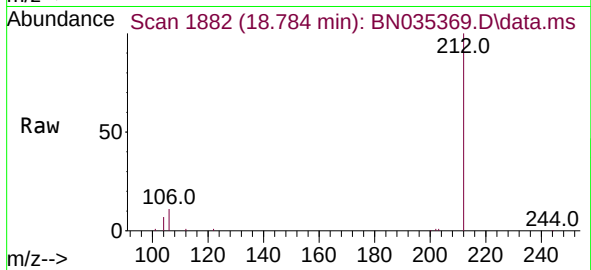




#27  
Fluoranthene-d10  
Concen: 0.405 ng  
RT: 18.784 min Scan# 1882  
Delta R.T. -0.000 min  
Lab File: BN035369.D  
Acq: 28 Nov 2024 05:27

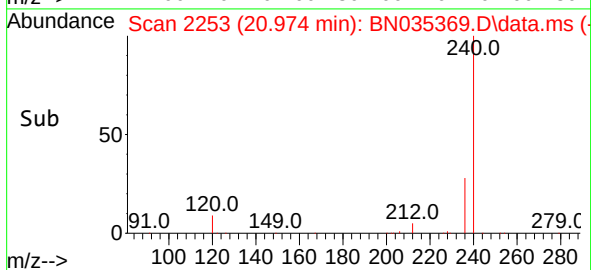
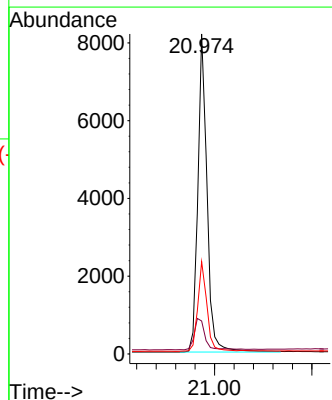
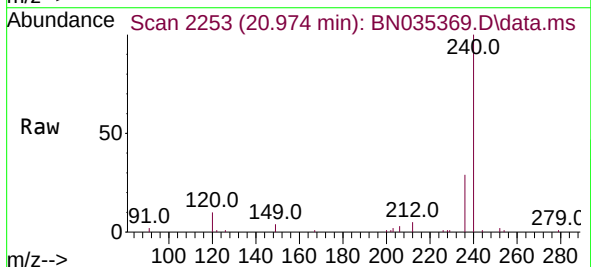
Instrument :  
BNA\_N  
ClientSampleId :  
PB165198BL

Tgt Ion:212 Resp: 13454  
Ion Ratio Lower Upper  
212 100  
106 10.9 9.2 13.8  
104 6.2 5.3 7.9

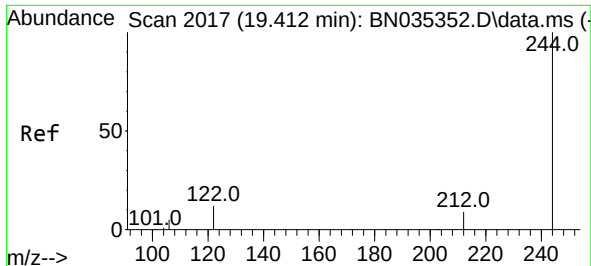


#29  
Chrysene-d12  
Concen: 0.400 ng  
RT: 20.974 min Scan# 2253  
Delta R.T. -0.000 min  
Lab File: BN035369.D  
Acq: 28 Nov 2024 05:27

Tgt Ion:240 Resp: 10667  
Ion Ratio Lower Upper  
240 100  
120 10.3 7.9 11.9  
236 28.8 22.9 34.3



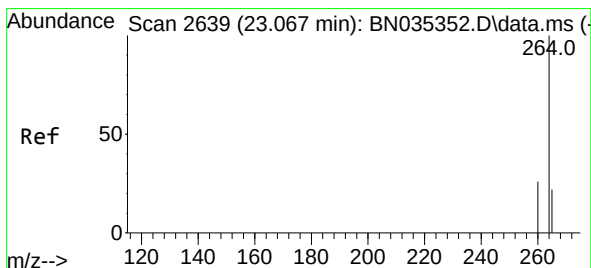
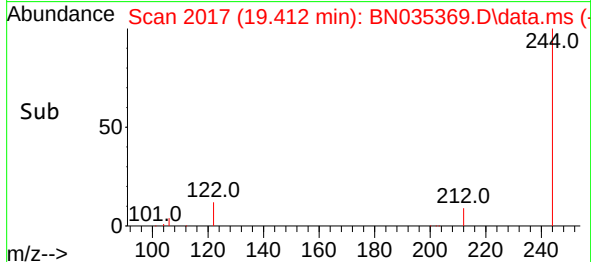
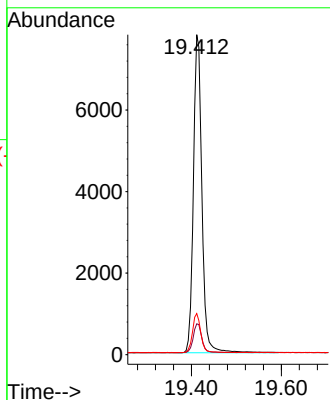
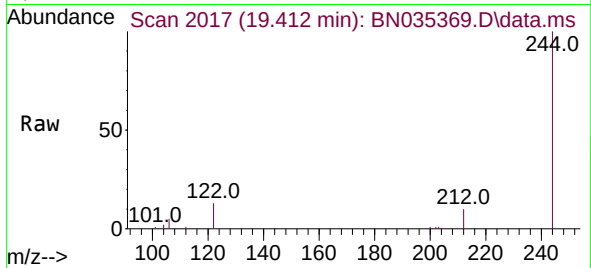




#31  
 Terphenyl-d14  
 Concen: 0.488 ng  
 RT: 19.412 min Scan# 20  
 Delta R.T. -0.000 min  
 Lab File: BN035369.D  
 Acq: 28 Nov 2024 05:27

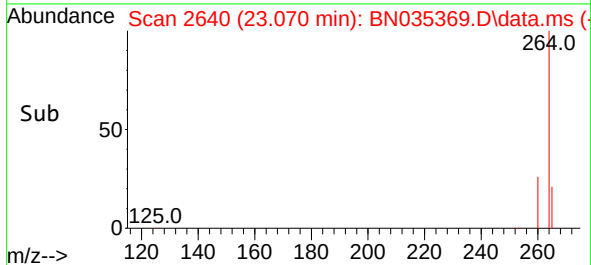
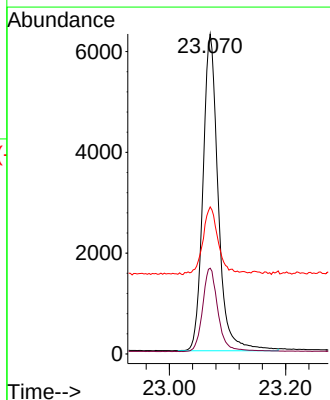
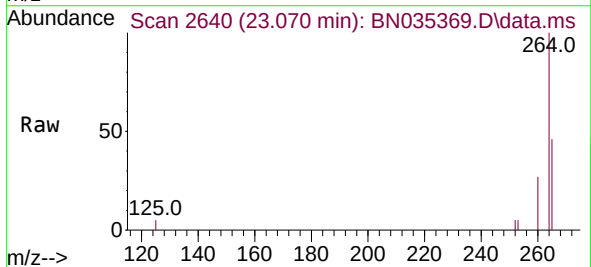
Instrument :  
 BNA\_N  
 ClientSampleId :  
 PB165198BL

Tgt Ion:244 Resp: 10274  
 Ion Ratio Lower Upper  
 244 100  
 212 9.7 8.1 12.1  
 122 12.8 10.3 15.5



#35  
 Perylene-d12  
 Concen: 0.400 ng  
 RT: 23.070 min Scan# 2640  
 Delta R.T. 0.003 min  
 Lab File: BN035369.D  
 Acq: 28 Nov 2024 05:27

Tgt Ion:264 Resp: 11480  
 Ion Ratio Lower Upper  
 264 100  
 260 26.8 21.4 32.2  
 265 46.0 40.2 60.4



Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN112724\  
 Data File : BN035370.D  
 Acq On : 28 Nov 2024 06:03  
 Operator : RC/JU  
 Sample : PB165198BS  
 Misc :  
 ALS Vial : 24 Sample Multiplier: 1

Instrument :  
 BNA\_N  
 ClientSampleId :  
 PB165198BS

Quant Time: Nov 28 06:28:21 2024  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\8270-SIM-BN112724.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Wed Nov 27 23:03:24 2024  
 Response via : Initial Calibration

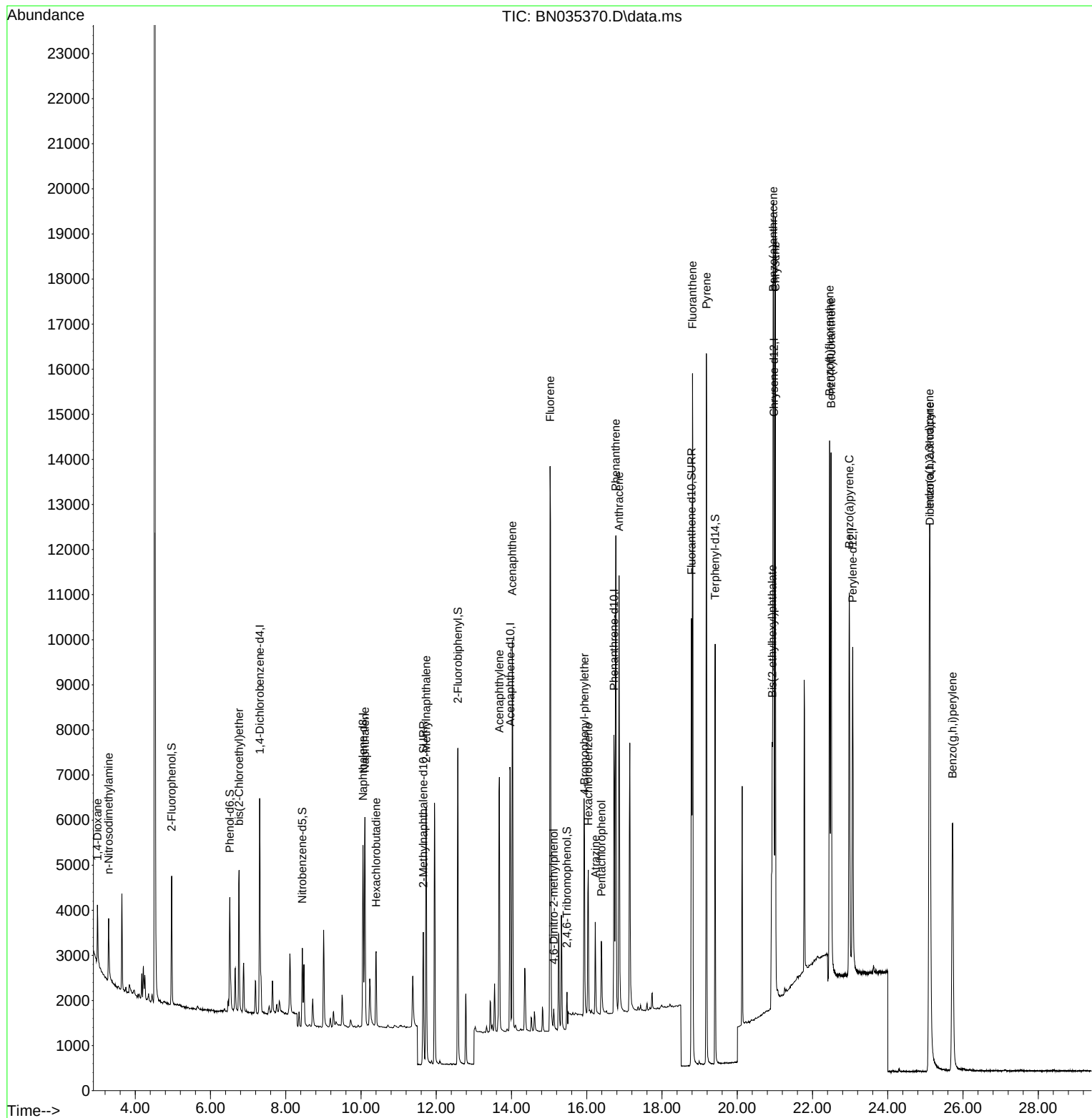
| Compound                      | R.T.   | QIon | Response | Conc  | Units | Dev(Min) |
|-------------------------------|--------|------|----------|-------|-------|----------|
| Internal Standards            |        |      |          |       |       |          |
| 1) 1,4-Dichlorobenzene-d4     | 7.308  | 152  | 2262     | 0.400 | ng    | 0.00     |
| 7) Naphthalene-d8             | 10.052 | 136  | 5496     | 0.400 | ng    | 0.00     |
| 13) Acenaphthene-d10          | 13.967 | 164  | 3686     | 0.400 | ng    | 0.00     |
| 19) Phenanthrene-d10          | 16.723 | 188  | 9203     | 0.400 | ng    | #-0.01   |
| 29) Chrysene-d12              | 20.974 | 240  | 8666     | 0.400 | ng    | 0.00     |
| 35) Perylene-d12              | 23.067 | 264  | 8924     | 0.400 | ng    | 0.00     |
| System Monitoring Compounds   |        |      |          |       |       |          |
| 4) 2-Fluorophenol             | 4.968  | 112  | 2290     | 0.405 | ng    | 0.00     |
| 5) Phenol-d6                  | 6.513  | 99   | 2626     | 0.386 | ng    | 0.00     |
| 8) Nitrobenzene-d5            | 8.440  | 82   | 1716     | 0.511 | ng    | 0.00     |
| 11) 2-Methylnaphthalene-d10   | 11.656 | 152  | 4975     | 0.578 | ng    | 0.00     |
| 14) 2,4,6-Tribromophenol      | 15.475 | 330  | 735      | 0.281 | ng    | 0.00     |
| 15) 2-Fluorobiphenyl          | 12.574 | 172  | 6624     | 0.475 | ng    | 0.00     |
| 27) Fluoranthene-d10          | 18.785 | 212  | 11970    | 0.459 | ng    | 0.00     |
| 31) Terphenyl-d14             | 19.412 | 244  | 8912     | 0.521 | ng    | 0.00     |
| Target Compounds              |        |      |          |       |       |          |
| 2) 1,4-Dioxane                | 2.996  | 88   | 876      | 0.405 | ng    | # 74     |
| 3) n-Nitrosodimethylamine     | 3.292  | 42   | 799      | 0.444 | ng    | # 91     |
| 6) bis(2-Chloroethyl)ether    | 6.759  | 93   | 2447     | 0.428 | ng    | 100      |
| 9) Naphthalene                | 10.105 | 128  | 6241     | 0.431 | ng    | 100      |
| 10) Hexachlorobutadiene       | 10.404 | 225  | 1469     | 0.439 | ng    | # 99     |
| 12) 2-Methylnaphthalene       | 11.732 | 142  | 4378     | 0.422 | ng    | 98       |
| 16) Acenaphthylene            | 13.679 | 152  | 7040     | 0.455 | ng    | 99       |
| 17) Acenaphthene              | 14.021 | 154  | 4456     | 0.434 | ng    | 100      |
| 18) Fluorene                  | 15.026 | 166  | 6228     | 0.423 | ng    | 100      |
| 20) 4,6-Dinitro-2-methylph... | 15.122 | 198  | 411      | 0.454 | ng    | 91       |
| 21) 4-Bromophenyl-phenylether | 15.941 | 248  | 2303     | 0.428 | ng    | 97       |
| 22) Hexachlorobenzene         | 16.041 | 284  | 2710     | 0.429 | ng    | 99       |
| 23) Atrazine                  | 16.227 | 200  | 1548     | 0.404 | ng    | 98       |
| 24) Pentachlorophenol         | 16.388 | 266  | 950      | 0.345 | ng    | 87       |
| 25) Phenanthrene              | 16.773 | 178  | 11082    | 0.438 | ng    | 100      |
| 26) Anthracene                | 16.860 | 178  | 10144    | 0.444 | ng    | 100      |
| 28) Fluoranthene              | 18.813 | 202  | 13705    | 0.402 | ng    | 100      |
| 30) Pyrene                    | 19.180 | 202  | 14204    | 0.444 | ng    | 100      |
| 32) Benzo(a)anthracene        | 20.956 | 228  | 13138    | 0.433 | ng    | 100      |
| 33) Chrysene                  | 21.010 | 228  | 14112    | 0.451 | ng    | 99       |
| 34) Bis(2-ethylhexyl)phtha... | 20.929 | 149  | 4912     | 0.410 | ng    | 100      |
| 36) Indeno(1,2,3-cd)pyrene    | 25.108 | 276  | 15213    | 0.436 | ng    | 99       |
| 37) Benzo(b)fluoranthene      | 22.453 | 252  | 16020    | 0.491 | ng    | 99       |
| 38) Benzo(k)fluoranthene      | 22.494 | 252  | 14448    | 0.450 | ng    | 99       |
| 39) Benzo(a)pyrene            | 22.977 | 252  | 12434    | 0.462 | ng    | 99       |
| 40) Dibenzo(a,h)anthracene    | 25.123 | 278  | 11913    | 0.433 | ng    | 99       |
| 41) Benzo(g,h,i)perylene      | 25.719 | 276  | 11556    | 0.402 | ng    | 100      |

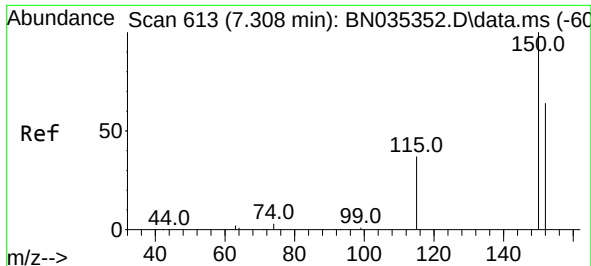
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Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN112724\  
Data File : BN035370.D  
Acq On : 28 Nov 2024 06:03  
Operator : RC/JU  
Sample : PB165198BS  
Misc :  
ALS Vial : 24 Sample Multiplier: 1

Instrument :  
BNA\_N  
ClientSampleId :  
PB165198BS

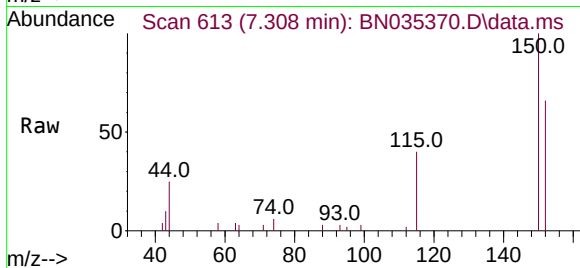
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Wed Nov 27 23:03:24 2024  
Response via : Initial Calibration





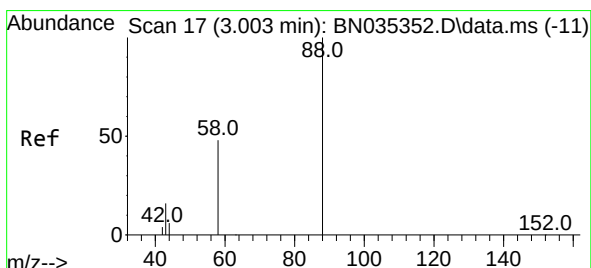
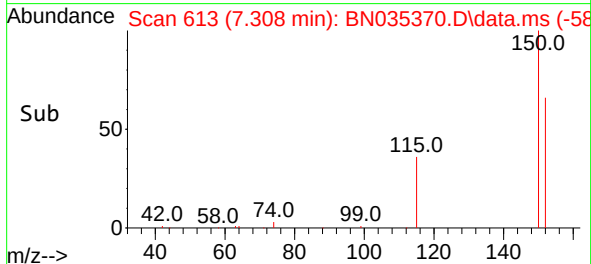
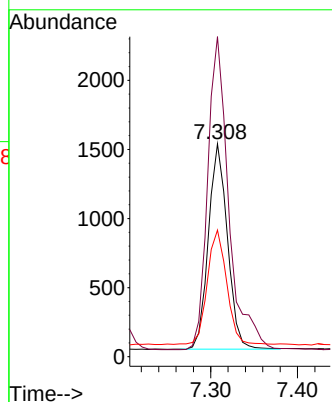
#1  
 1,4-Dichlorobenzene-d4  
 Concen: 0.400 ng  
 RT: 7.308 min Scan# 61  
 Delta R.T. -0.000 min  
 Lab File: BN035370.D  
 Acq: 28 Nov 2024 06:03

Instrument :  
 BNA\_N  
 ClientSampleId :  
 PB165198BS



Tgt Ion:152 Resp: 2262

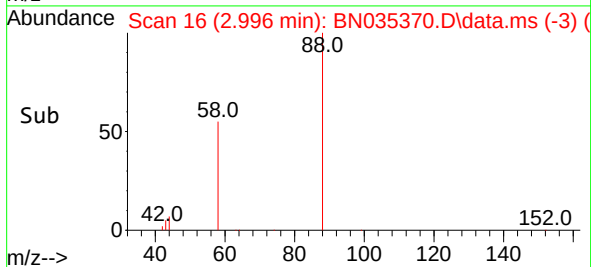
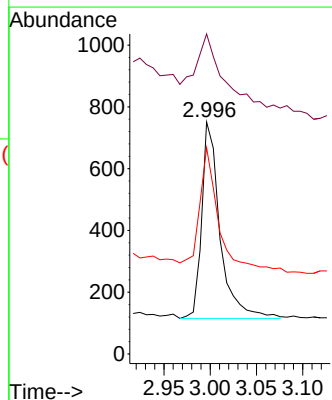
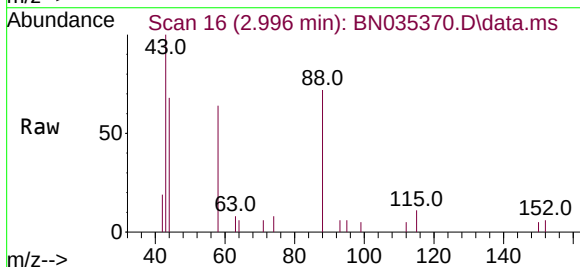
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 152 | 100   |       |       |
| 150 | 150.4 | 124.0 | 186.0 |
| 115 | 59.5  | 49.6  | 74.4  |

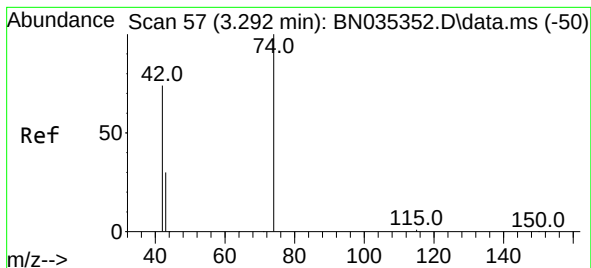


#2  
 1,4-Dioxane  
 Concen: 0.405 ng  
 RT: 2.996 min Scan# 16  
 Delta R.T. -0.007 min  
 Lab File: BN035370.D  
 Acq: 28 Nov 2024 06:03

Tgt Ion: 88 Resp: 876

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 88  | 100   |       |       |
| 43  | 58.3  | 17.2  | 25.8  |
| 58  | 59.7  | 44.5  | 66.7  |





#3

n-Nitrosodimethylamine

Concen: 0.444 ng

RT: 3.292 min Scan# 51

Delta R.T. 0.000 min

Lab File: BN035370.D

Acq: 28 Nov 2024 06:03

Instrument :

BNA\_N

ClientSampleId :

PB165198BS

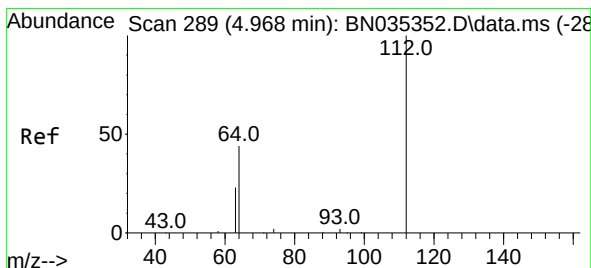
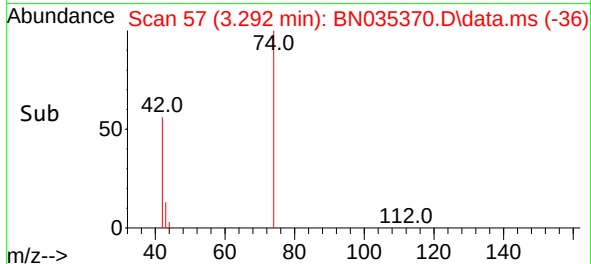
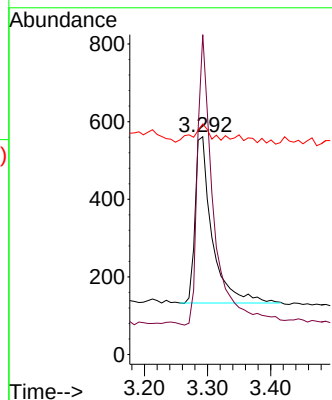
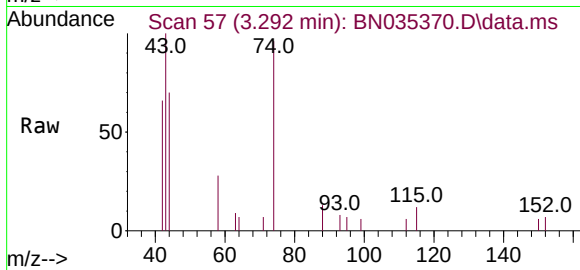
Tgt Ion: 42 Resp: 799

Ion Ratio Lower Upper

42 100

74 167.0 124.9 187.3

44 10.6 2.2 3.4#



#4

2-Fluorophenol

Concen: 0.405 ng

RT: 4.968 min Scan# 289

Delta R.T. 0.000 min

Lab File: BN035370.D

Acq: 28 Nov 2024 06:03

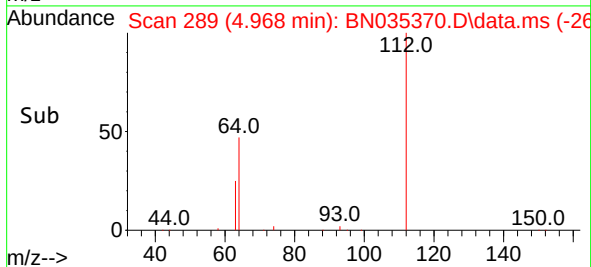
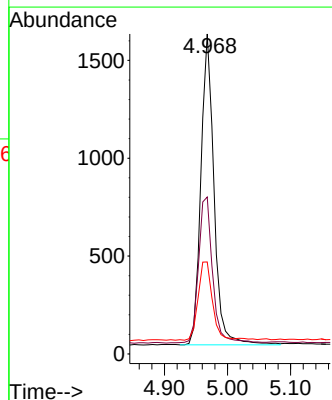
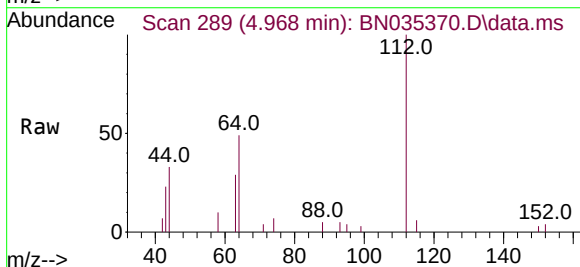
Tgt Ion: 112 Resp: 2290

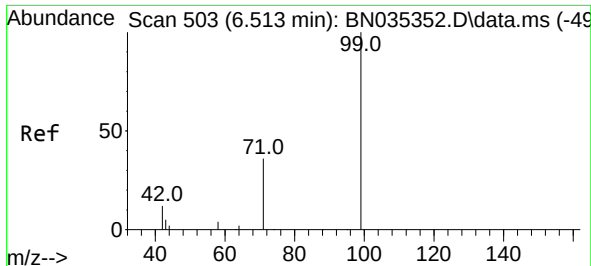
Ion Ratio Lower Upper

112 100

64 50.4 39.8 59.8

63 28.0 21.0 31.6

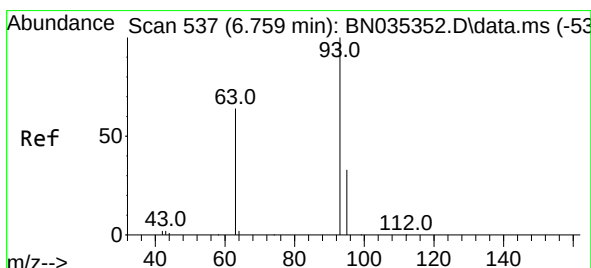
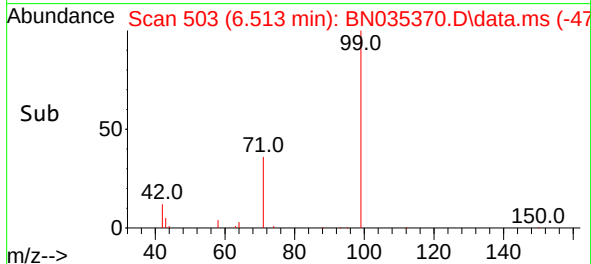
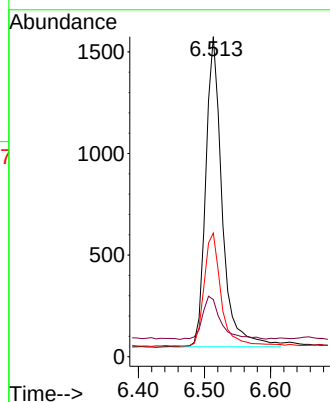
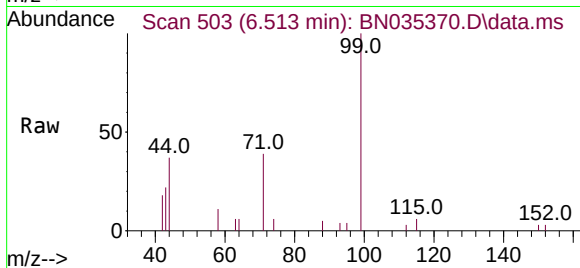




#5  
Phenol-d6  
Concen: 0.386 ng  
RT: 6.513 min Scan# 503  
Delta R.T. 0.000 min  
Lab File: BN035370.D  
Acq: 28 Nov 2024 06:03

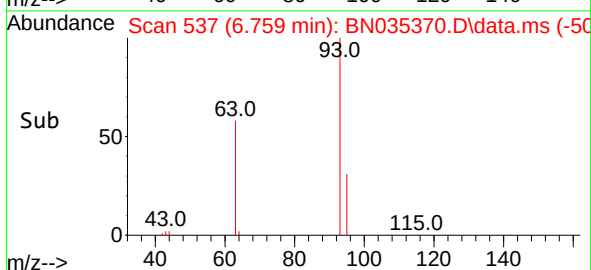
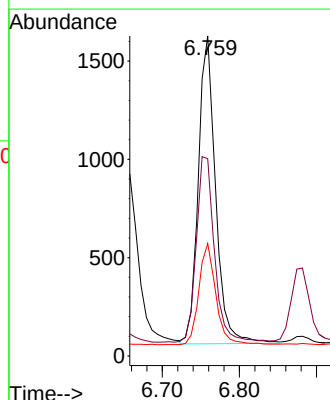
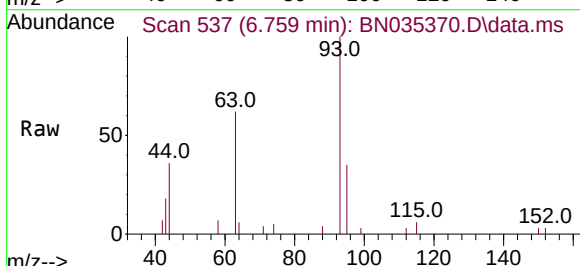
Instrument :  
BNA\_N  
ClientSampleId :  
PB165198BS

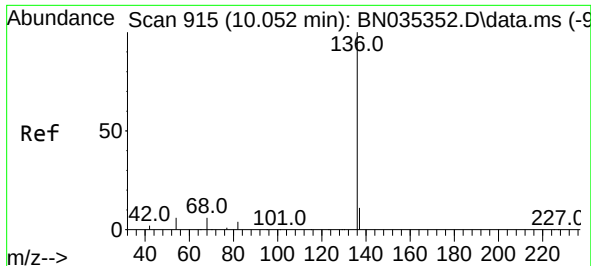
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 99    | Resp: | 2626  |
| Ion      | Ratio | Lower | Upper |
| 99       | 100   |       |       |
| 42       | 15.6  | 11.4  | 17.2  |
| 71       | 37.5  | 29.3  | 43.9  |



#6  
bis(2-Chloroethyl)ether  
Concen: 0.428 ng  
RT: 6.759 min Scan# 537  
Delta R.T. 0.000 min  
Lab File: BN035370.D  
Acq: 28 Nov 2024 06:03

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 93    | Resp: | 2447  |
| Ion      | Ratio | Lower | Upper |
| 93       | 100   |       |       |
| 63       | 63.1  | 50.4  | 75.6  |
| 95       | 32.0  | 25.7  | 38.5  |

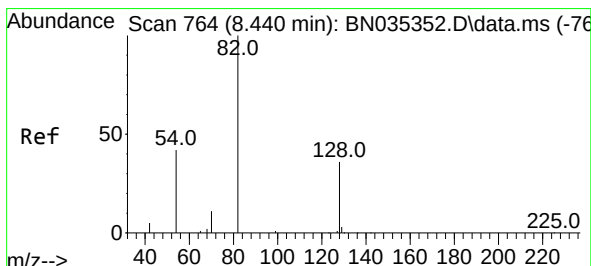
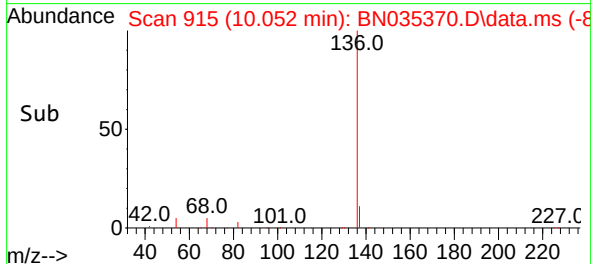
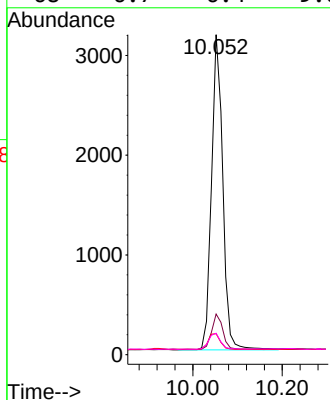
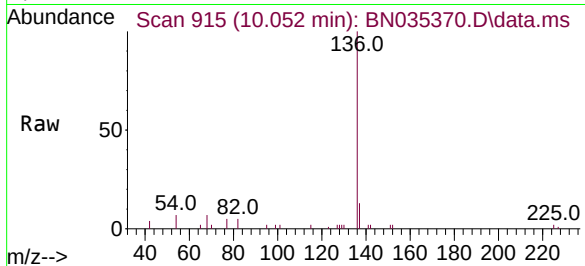




#7  
Naphthalene-d8  
Concen: 0.400 ng  
RT: 10.052 min Scan# 915  
Delta R.T. 0.000 min  
Lab File: BN035370.D  
Acq: 28 Nov 2024 06:03

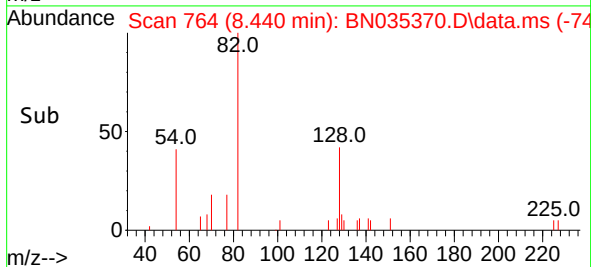
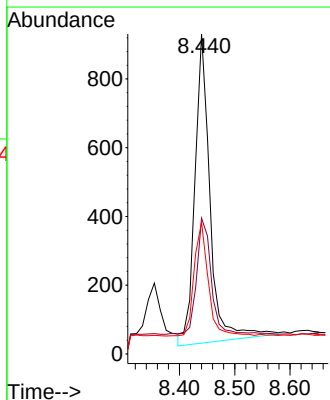
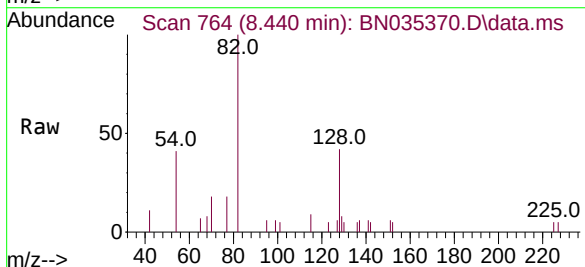
Instrument :  
BNA\_N  
ClientSampleId :  
PB165198BS

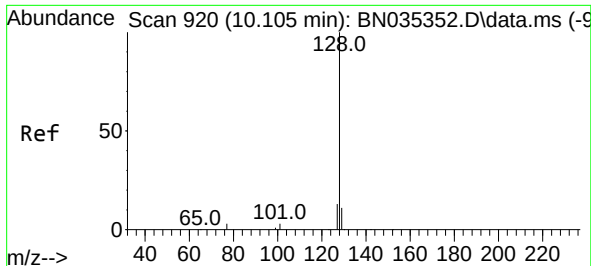
|           |       |       |      |
|-----------|-------|-------|------|
| Tgt Ion:  | 136   | Resp: | 5496 |
| Ion Ratio | Lower | Upper |      |
| 136       | 100   |       |      |
| 137       | 12.7  | 10.2  | 15.2 |
| 54        | 6.6   | 6.1   | 9.1  |
| 68        | 6.7   | 6.4   | 9.6  |



#8  
Nitrobenzene-d5  
Concen: 0.511 ng  
RT: 8.440 min Scan# 764  
Delta R.T. 0.000 min  
Lab File: BN035370.D  
Acq: 28 Nov 2024 06:03

|           |       |       |      |
|-----------|-------|-------|------|
| Tgt Ion:  | 82    | Resp: | 1716 |
| Ion Ratio | Lower | Upper |      |
| 82        | 100   |       |      |
| 128       | 42.4  | 33.4  | 50.0 |
| 54        | 41.1  | 36.7  | 55.1 |

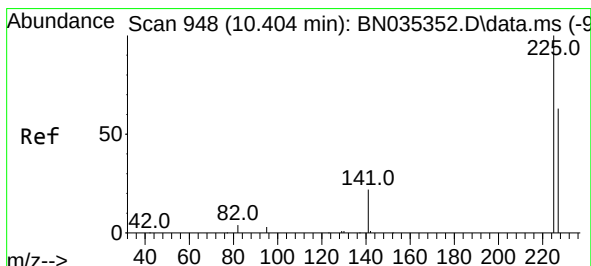
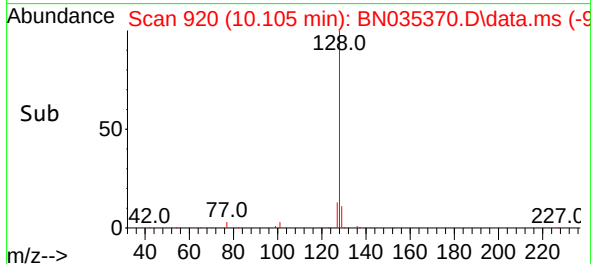
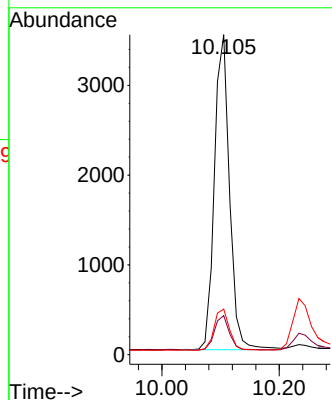
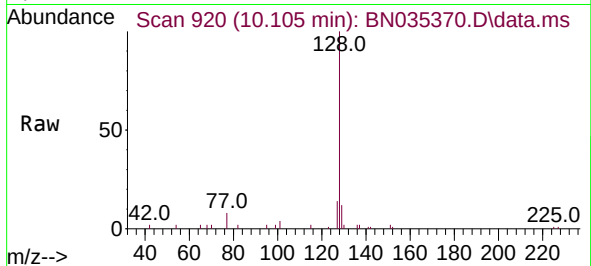




#9  
Naphthalene  
Concen: 0.431 ng  
RT: 10.105 min Scan# 912  
Delta R.T. 0.000 min  
Lab File: BN035370.D  
Acq: 28 Nov 2024 06:03

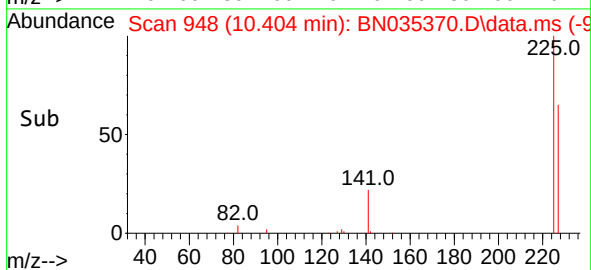
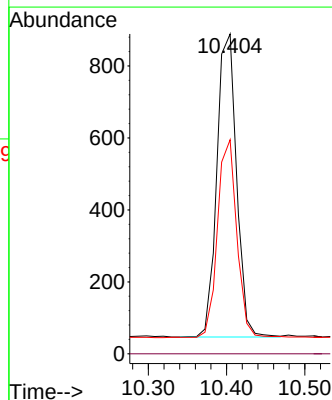
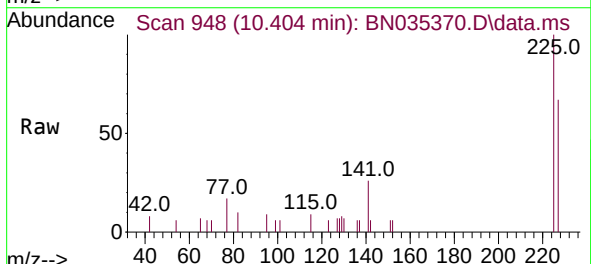
Instrument :  
BNA\_N  
ClientSampleId :  
PB165198BS

Tgt Ion:128 Resp: 6241  
Ion Ratio Lower Upper  
128 100  
129 12.2 9.8 14.6  
127 14.2 11.4 17.2

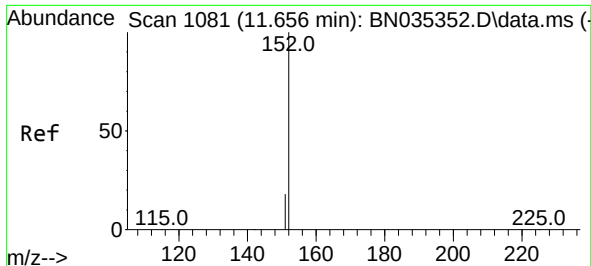


#10  
Hexachlorobutadiene  
Concen: 0.439 ng  
RT: 10.404 min Scan# 948  
Delta R.T. 0.000 min  
Lab File: BN035370.D  
Acq: 28 Nov 2024 06:03

Tgt Ion:225 Resp: 1469  
Ion Ratio Lower Upper  
225 100  
223 0.0 0.0 0.0  
227 64.7 51.3 76.9



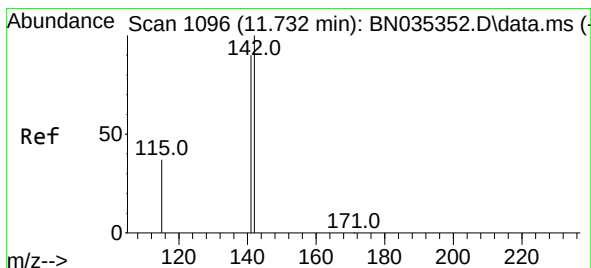
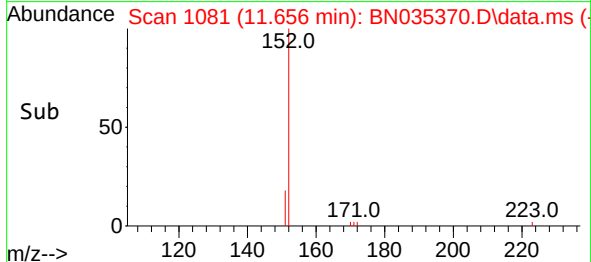
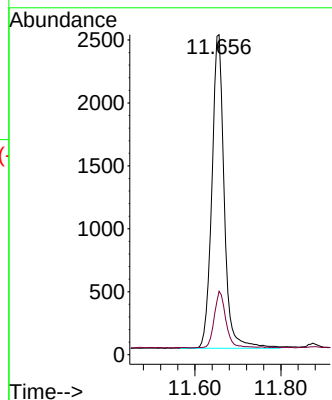
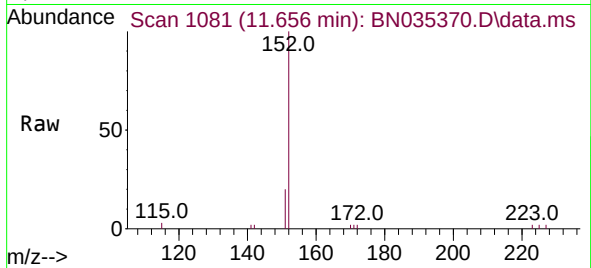




#11  
2-Methylnaphthalene-d10  
Concen: 0.578 ng  
RT: 11.656 min Scan# 1081  
Delta R.T. 0.000 min  
Lab File: BN035370.D  
Acq: 28 Nov 2024 06:03

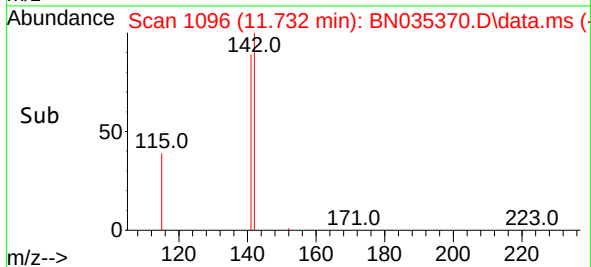
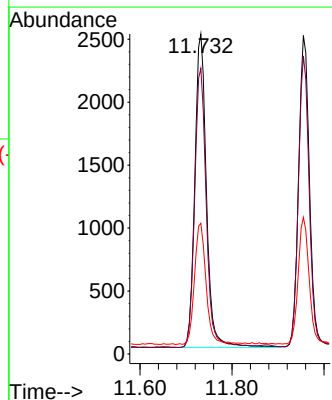
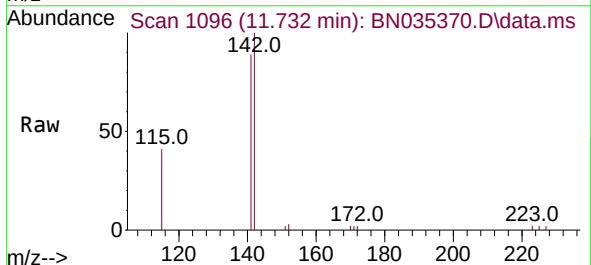
Instrument :  
BNA\_N  
ClientSampleId :  
PB165198BS

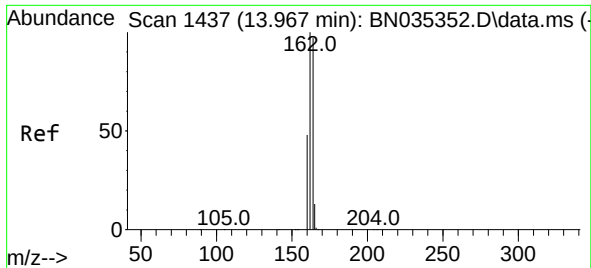
Tgt Ion:152 Resp: 4975  
Ion Ratio Lower Upper  
152 100  
151 16.9 16.6 25.0



#12  
2-Methylnaphthalene  
Concen: 0.422 ng  
RT: 11.732 min Scan# 1096  
Delta R.T. 0.000 min  
Lab File: BN035370.D  
Acq: 28 Nov 2024 06:03

Tgt Ion:142 Resp: 4378  
Ion Ratio Lower Upper  
142 100  
141 89.3 72.2 108.4  
115 40.8 31.4 47.0

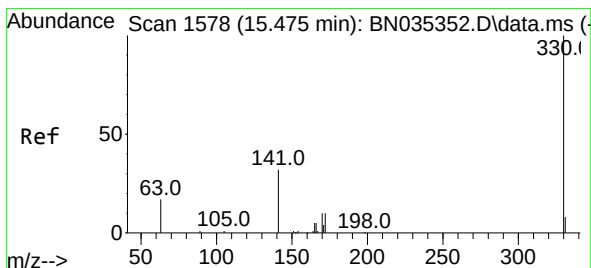
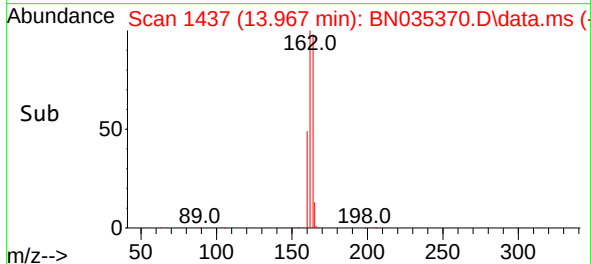
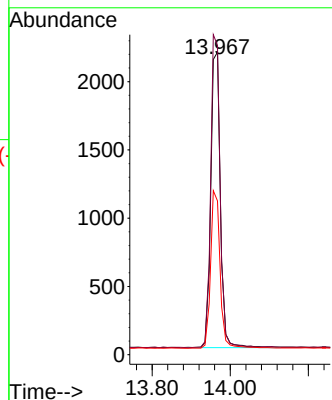
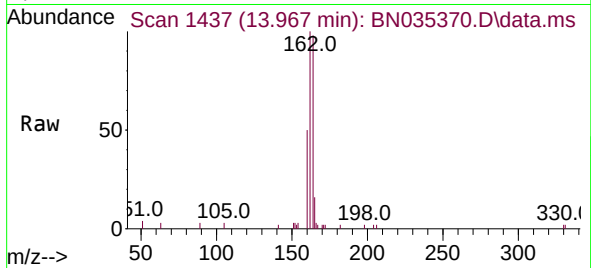




#13  
Acenaphthene-d10  
Concen: 0.400 ng  
RT: 13.967 min Scan# 1437  
Delta R.T. 0.000 min  
Lab File: BN035370.D  
Acq: 28 Nov 2024 06:03

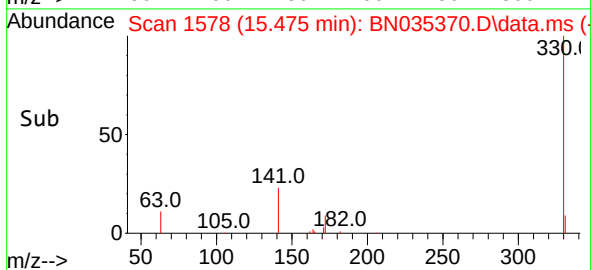
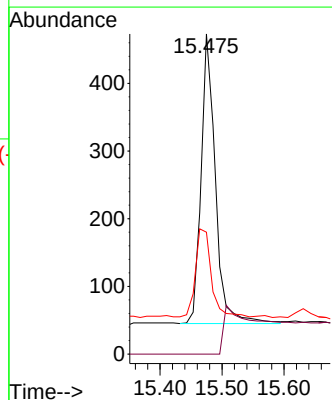
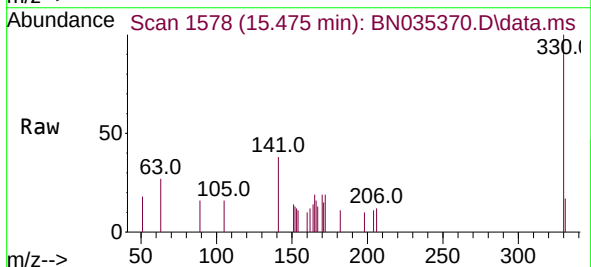
Instrument :  
BNA\_N  
ClientSampleId :  
PB165198BS

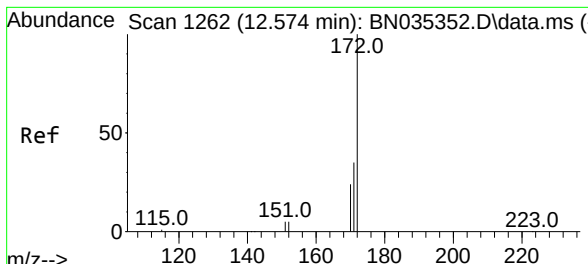
Tgt Ion:164 Resp: 3686  
Ion Ratio Lower Upper  
164 100  
162 102.2 82.2 123.2  
160 50.8 40.1 60.1



#14  
2,4,6-Tribromophenol  
Concen: 0.281 ng  
RT: 15.475 min Scan# 1578  
Delta R.T. 0.000 min  
Lab File: BN035370.D  
Acq: 28 Nov 2024 06:03

Tgt Ion:330 Resp: 735  
Ion Ratio Lower Upper  
330 100  
332 0.0 0.0 0.0  
141 34.6 26.6 40.0

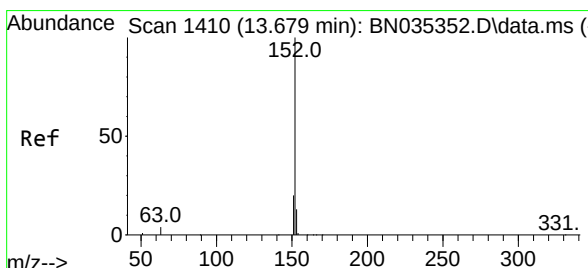
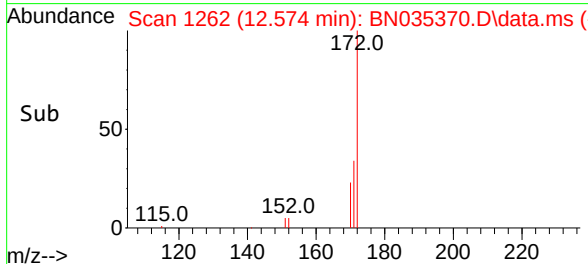
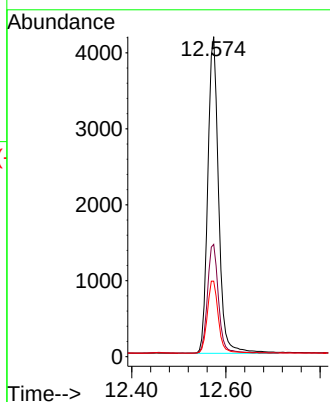
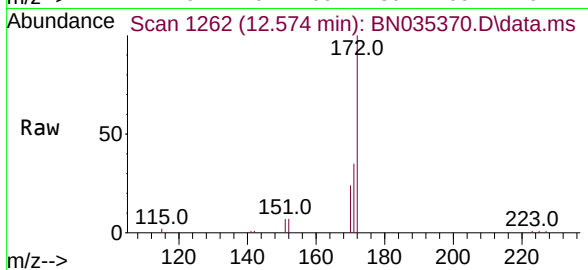




#15  
2-Fluorobiphenyl  
Concen: 0.475 ng  
RT: 12.574 min Scan# 11  
Delta R.T. 0.000 min  
Lab File: BN035370.D  
Acq: 28 Nov 2024 06:03

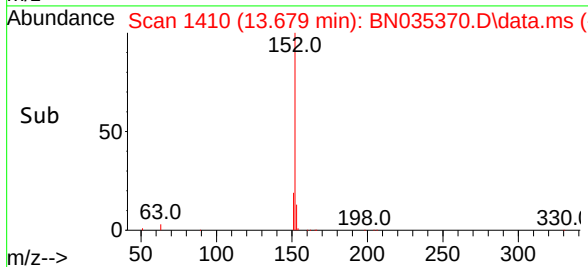
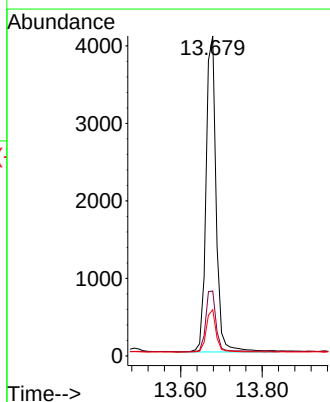
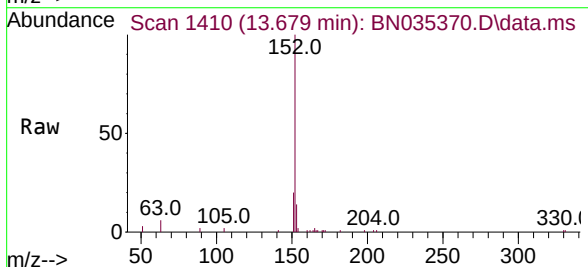
Instrument :  
BNA\_N  
ClientSampleId :  
PB165198BS

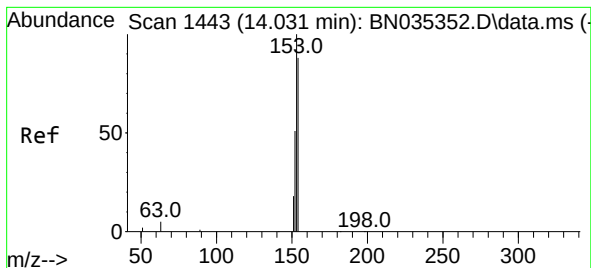
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 172   | Resp: | 6624  |
| Ion      | Ratio | Lower | Upper |
| 172      | 100   |       |       |
| 171      | 35.1  | 29.0  | 43.4  |
| 170      | 23.6  | 19.8  | 29.8  |



#16  
Acenaphthylene  
Concen: 0.455 ng  
RT: 13.679 min Scan# 1410  
Delta R.T. 0.000 min  
Lab File: BN035370.D  
Acq: 28 Nov 2024 06:03

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 152   | Resp: | 7040  |
| Ion      | Ratio | Lower | Upper |
| 152      | 100   |       |       |
| 151      | 19.9  | 16.2  | 24.2  |
| 153      | 13.2  | 10.4  | 15.6  |





#17

Acenaphthene

Concen: 0.434 ng

RT: 14.021 min Scan# 1442

Delta R.T. -0.011 min

Lab File: BN035370.D

Acq: 28 Nov 2024 06:03

Instrument :

BNA\_N

ClientSampleId :

PB165198BS

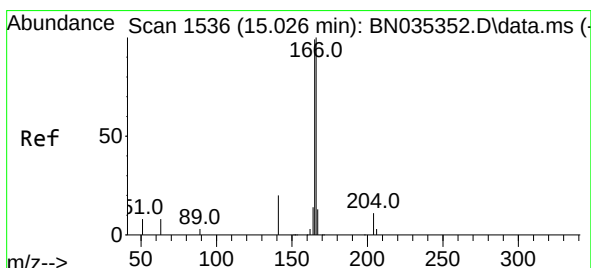
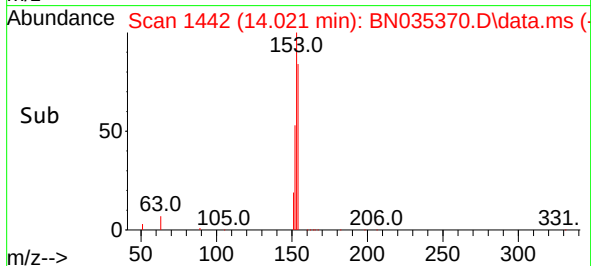
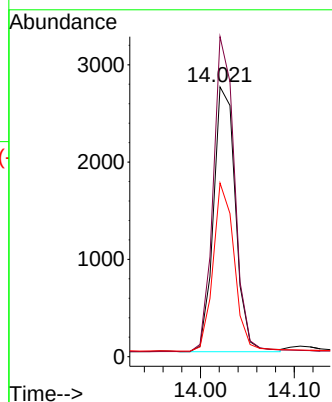
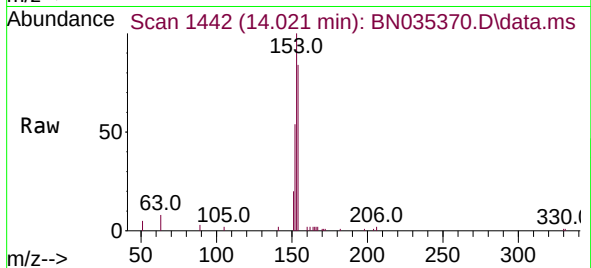
Tgt Ion:154 Resp: 4456

Ion Ratio Lower Upper

154 100

153 115.6 92.6 139.0

152 61.5 49.0 73.6



#18

Fluorene

Concen: 0.423 ng

RT: 15.026 min Scan# 1536

Delta R.T. 0.000 min

Lab File: BN035370.D

Acq: 28 Nov 2024 06:03

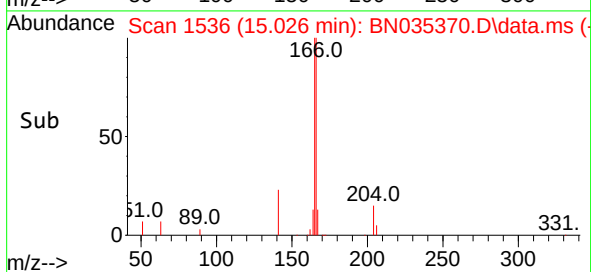
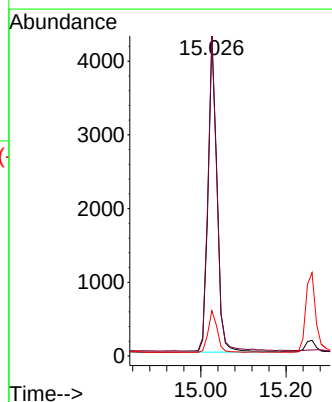
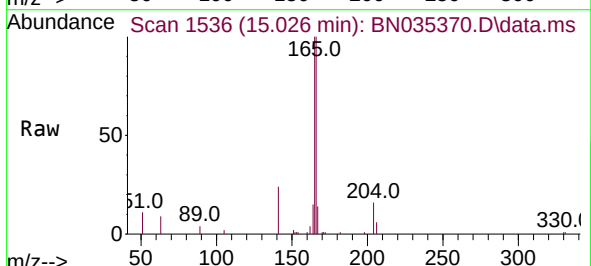
Tgt Ion:166 Resp: 6228

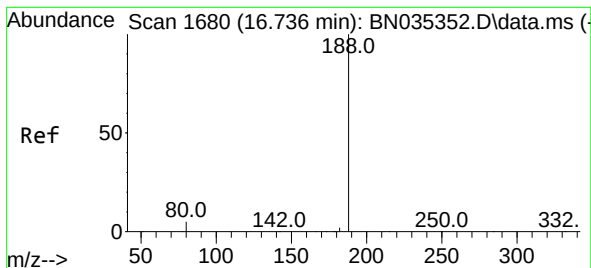
Ion Ratio Lower Upper

166 100

165 100.0 79.7 119.5

167 13.3 10.8 16.2





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 16.723 min Scan# 1

Delta R.T. -0.012 min

Lab File: BN035370.D

Acq: 28 Nov 2024 06:03

Instrument :

BNA\_N

ClientSampleId :

PB165198BS

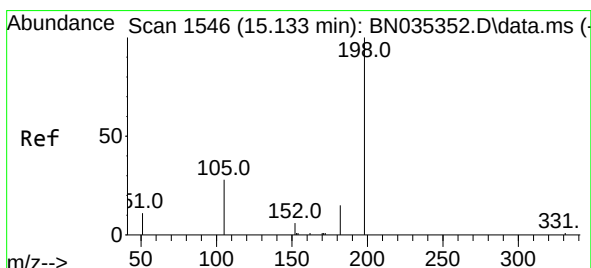
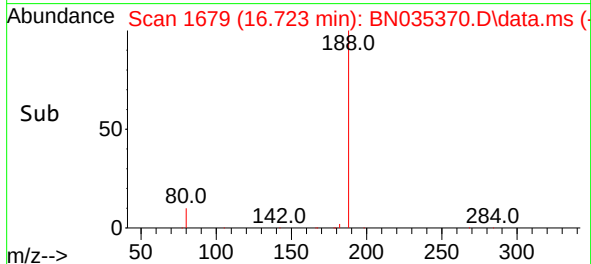
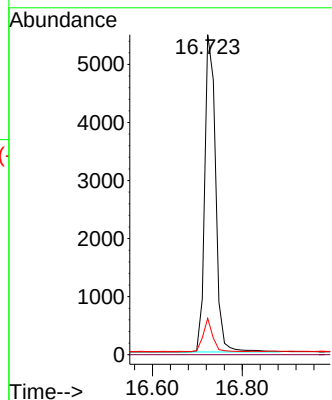
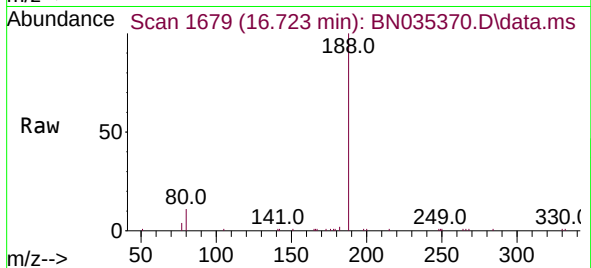
Tgt Ion:188 Resp: 9203

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 11.3 4.6 6.8#



#20

4,6-Dinitro-2-methylphenol

Concen: 0.454 ng

RT: 15.122 min Scan# 1545

Delta R.T. -0.011 min

Lab File: BN035370.D

Acq: 28 Nov 2024 06:03

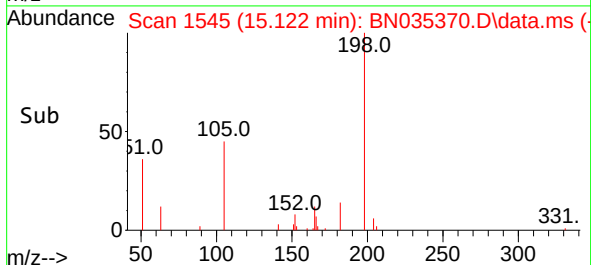
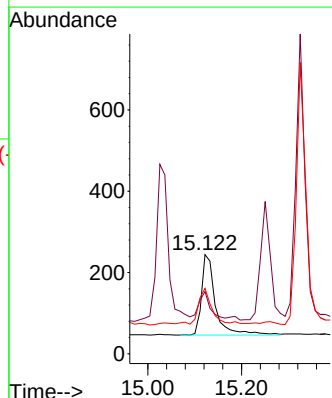
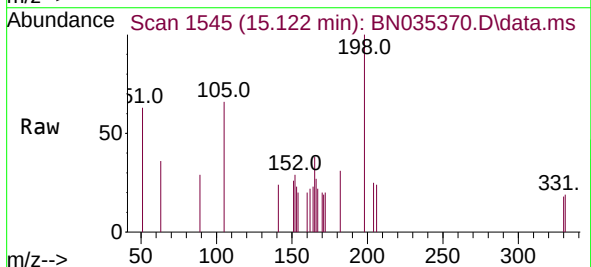
Tgt Ion:198 Resp: 411

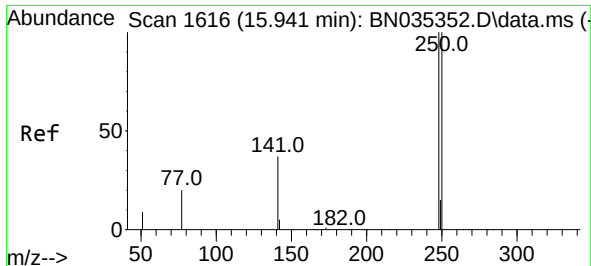
Ion Ratio Lower Upper

198 100

51 62.7 46.5 69.7

105 66.0 45.3 67.9

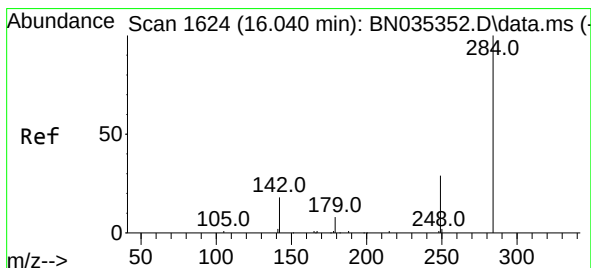
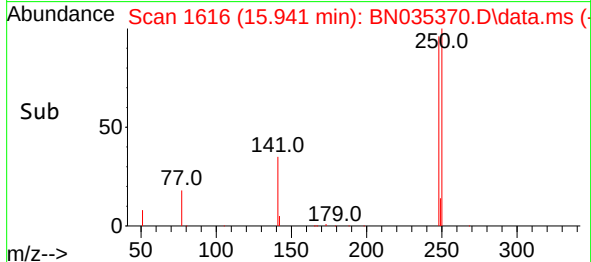
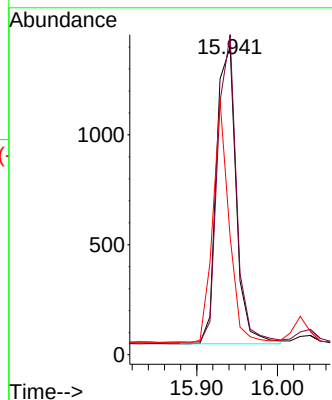
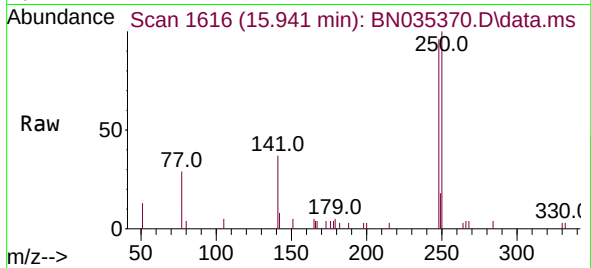




#21  
4-Bromophenyl-phenylether  
Concen: 0.428 ng  
RT: 15.941 min Scan# 1616  
Delta R.T. 0.000 min  
Lab File: BN035370.D  
Acq: 28 Nov 2024 06:03

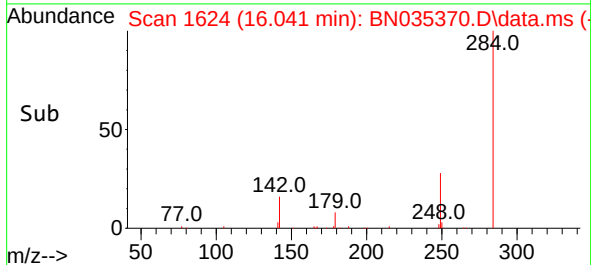
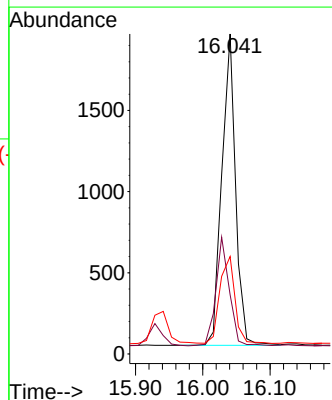
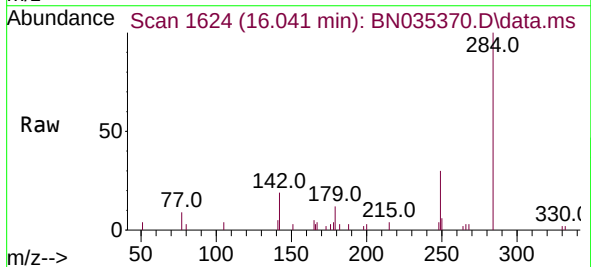
Instrument :  
BNA\_N  
ClientSampleId :  
PB165198BS

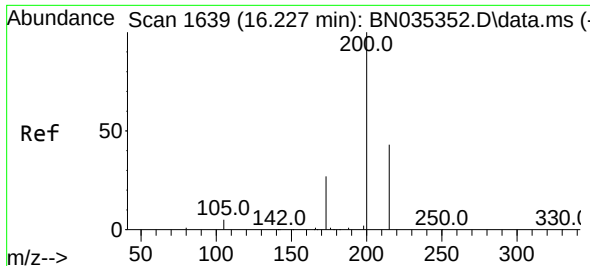
Tgt Ion:248 Resp: 2303  
Ion Ratio Lower Upper  
248 100  
250 104.1 80.6 120.8  
141 38.3 31.5 47.3



#22  
Hexachlorobenzene  
Concen: 0.429 ng  
RT: 16.041 min Scan# 1624  
Delta R.T. 0.000 min  
Lab File: BN035370.D  
Acq: 28 Nov 2024 06:03

Tgt Ion:284 Resp: 2710  
Ion Ratio Lower Upper  
284 100  
142 34.3 26.7 40.1  
249 30.8 24.6 36.8

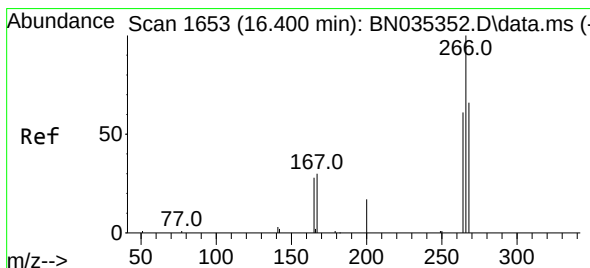
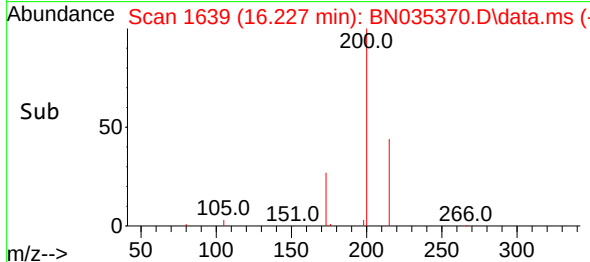
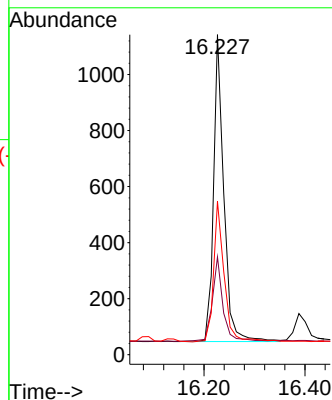
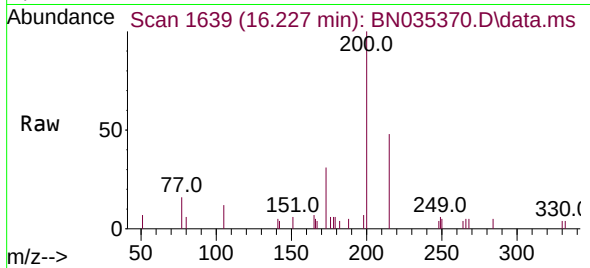




#23  
 Atrazine  
 Concen: 0.404 ng  
 RT: 16.227 min Scan# 1639  
 Delta R.T. 0.000 min  
 Lab File: BN035370.D  
 Acq: 28 Nov 2024 06:03

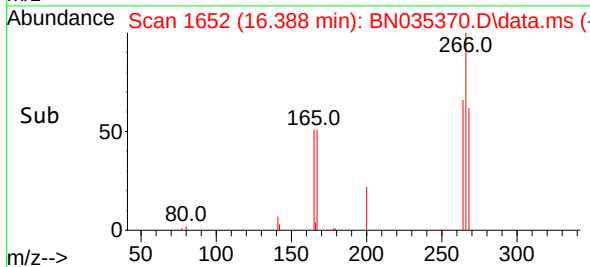
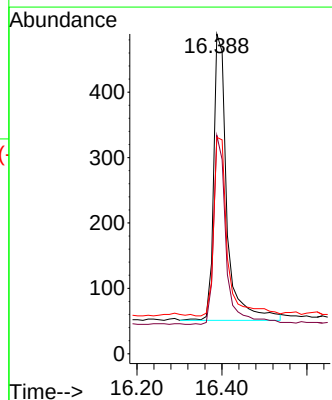
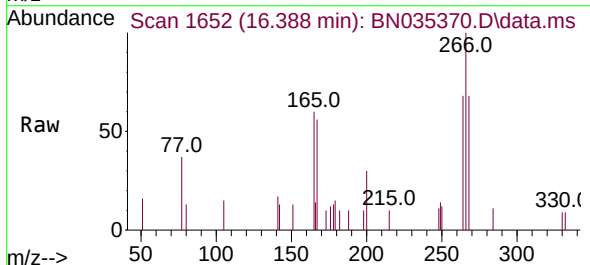
Instrument :  
 BNA\_N  
 ClientSampleId :  
 PB165198BS

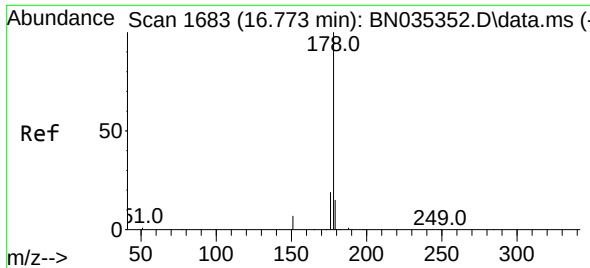
|           |       |       |      |
|-----------|-------|-------|------|
| Tgt Ion:  | 200   | Resp: | 1548 |
| Ion Ratio | Lower | Upper |      |
| 200       | 100   |       |      |
| 173       | 30.6  | 24.1  | 36.1 |
| 215       | 47.9  | 36.9  | 55.3 |



#24  
 Pentachlorophenol  
 Concen: 0.345 ng  
 RT: 16.388 min Scan# 1652  
 Delta R.T. -0.012 min  
 Lab File: BN035370.D  
 Acq: 28 Nov 2024 06:03

|           |       |       |      |
|-----------|-------|-------|------|
| Tgt Ion:  | 266   | Resp: | 950  |
| Ion Ratio | Lower | Upper |      |
| 266       | 100   |       |      |
| 264       | 62.4  | 42.3  | 63.5 |
| 268       | 63.8  | 43.3  | 64.9 |

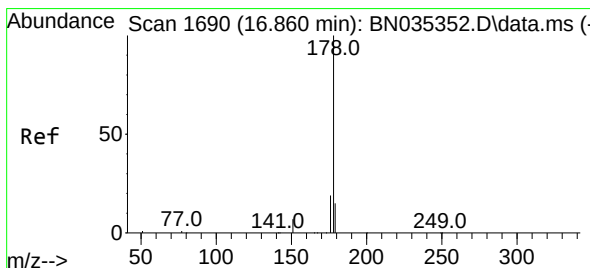
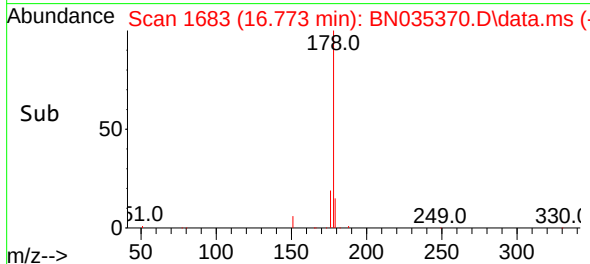
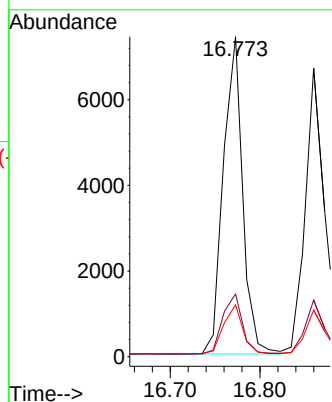
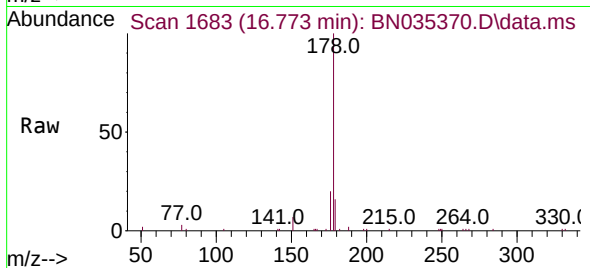




#25  
Phenanthrene  
Concen: 0.438 ng  
RT: 16.773 min Scan# 1683  
Delta R.T. 0.000 min  
Lab File: BN035370.D  
Acq: 28 Nov 2024 06:03

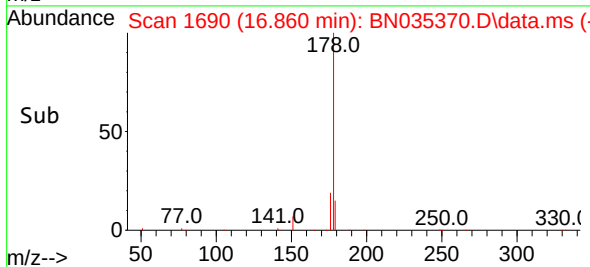
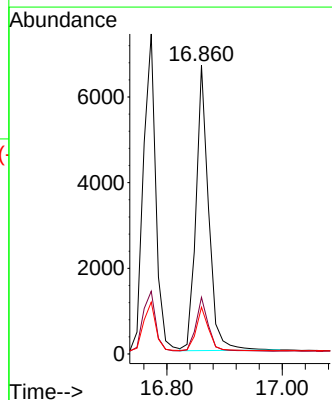
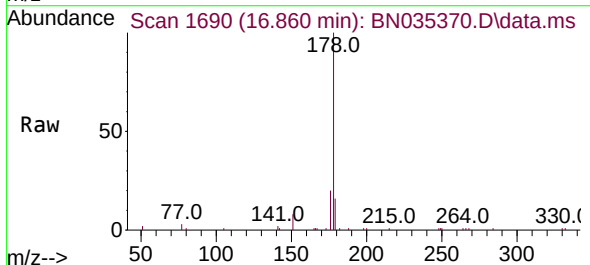
Instrument :  
BNA\_N  
ClientSampleId :  
PB165198BS

Tgt Ion:178 Resp: 11082  
Ion Ratio Lower Upper  
178 100  
176 19.4 15.4 23.2  
179 15.5 12.3 18.5

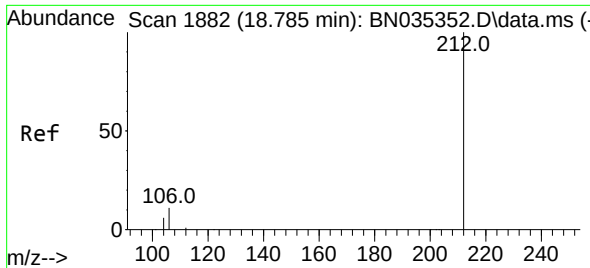


#26  
Anthracene  
Concen: 0.444 ng  
RT: 16.860 min Scan# 1690  
Delta R.T. 0.000 min  
Lab File: BN035370.D  
Acq: 28 Nov 2024 06:03

Tgt Ion:178 Resp: 10144  
Ion Ratio Lower Upper  
178 100  
176 18.8 15.0 22.6  
179 15.3 12.6 18.8



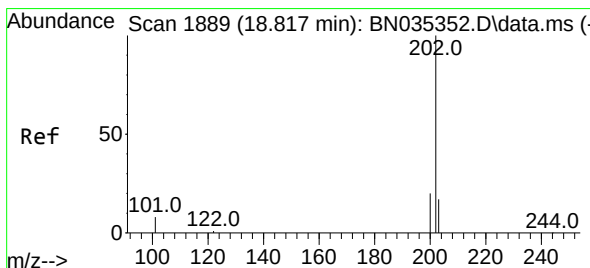
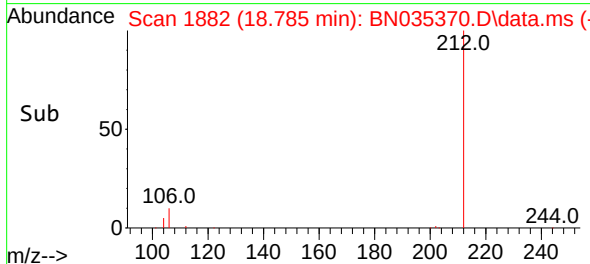
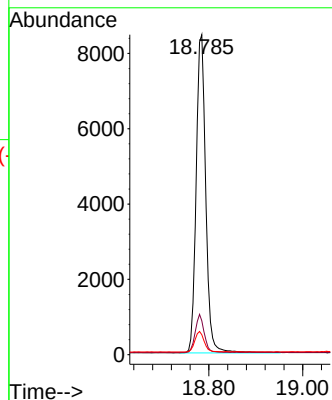
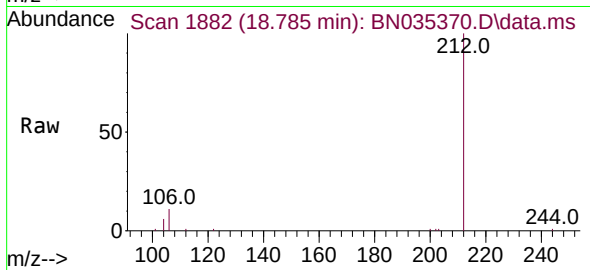




#27  
Fluoranthene-d10  
Concen: 0.459 ng  
RT: 18.785 min Scan# 1882  
Delta R.T. 0.000 min  
Lab File: BN035370.D  
Acq: 28 Nov 2024 06:03

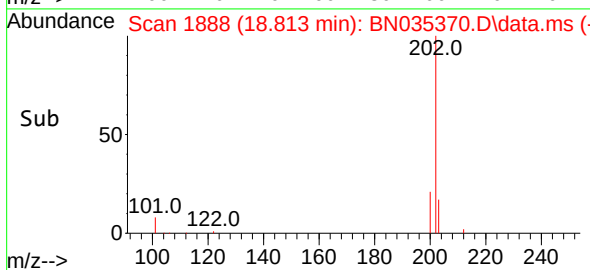
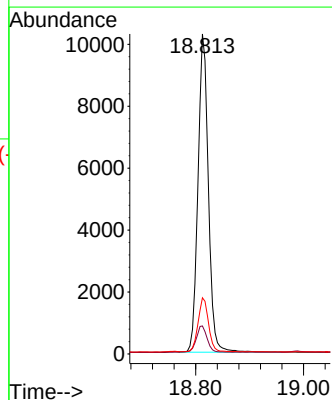
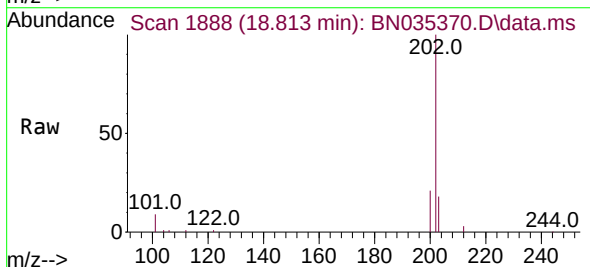
Instrument :  
BNA\_N  
ClientSampleId :  
PB165198BS

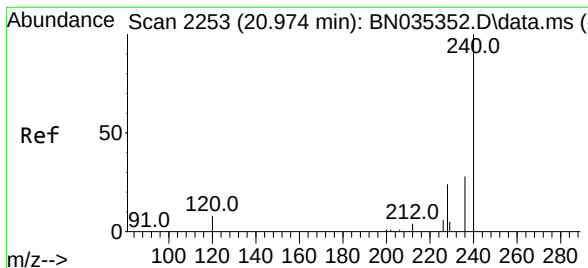
Tgt Ion:212 Resp: 11970  
Ion Ratio Lower Upper  
212 100  
106 11.2 9.2 13.8  
104 6.3 5.3 7.9



#28  
Fluoranthene  
Concen: 0.402 ng  
RT: 18.813 min Scan# 1888  
Delta R.T. -0.005 min  
Lab File: BN035370.D  
Acq: 28 Nov 2024 06:03

Tgt Ion:202 Resp: 13705  
Ion Ratio Lower Upper  
202 100  
101 8.9 7.4 11.0  
203 17.0 13.7 20.5





#29

Chrysene-d12

Concen: 0.400 ng

RT: 20.974 min Scan# 21

Delta R.T. 0.000 min

Lab File: BN035370.D

Acq: 28 Nov 2024 06:03

Instrument :

BNA\_N

ClientSampleId :

PB165198BS

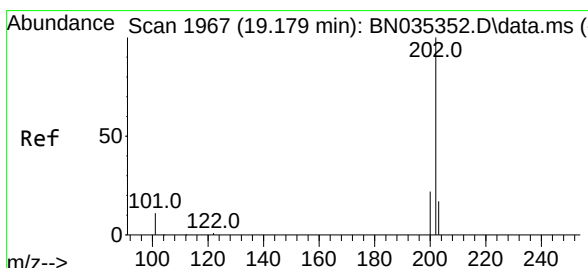
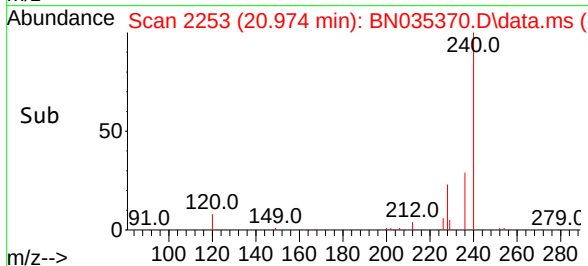
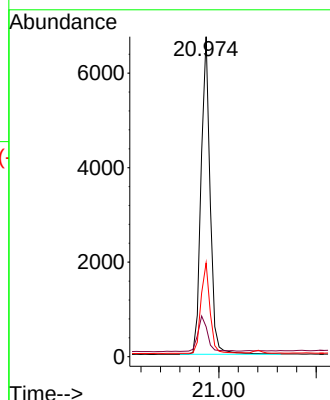
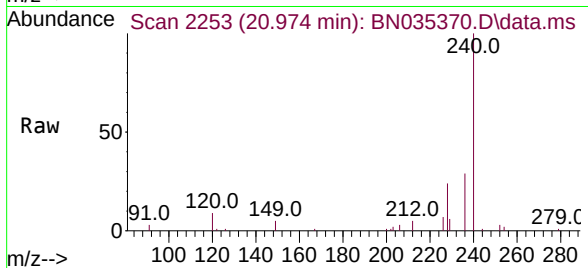
Tgt Ion:240 Resp: 8666

Ion Ratio Lower Upper

240 100

120 9.4 7.9 11.9

236 29.3 22.9 34.3



#30

Pyrene

Concen: 0.444 ng

RT: 19.180 min Scan# 1967

Delta R.T. 0.000 min

Lab File: BN035370.D

Acq: 28 Nov 2024 06:03

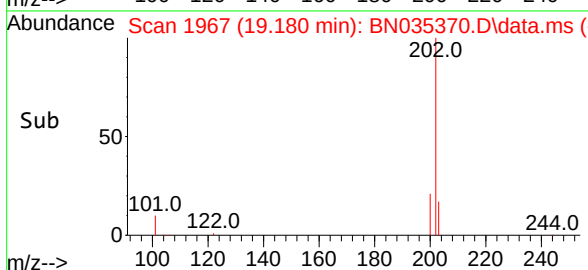
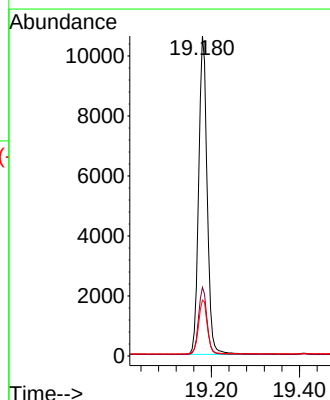
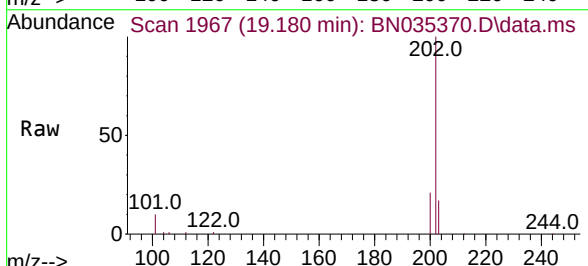
Tgt Ion:202 Resp: 14204

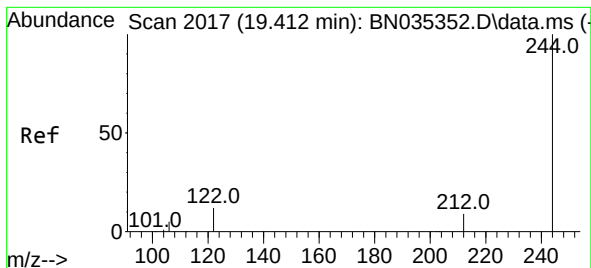
Ion Ratio Lower Upper

202 100

200 21.1 17.0 25.4

203 17.5 14.3 21.5





#31

Terphenyl-d14

Concen: 0.521 ng

RT: 19.412 min Scan# 2017

Delta R.T. 0.000 min

Lab File: BN035370.D

Acq: 28 Nov 2024 06:03

Instrument :

BNA\_N

ClientSampleId :

PB165198BS

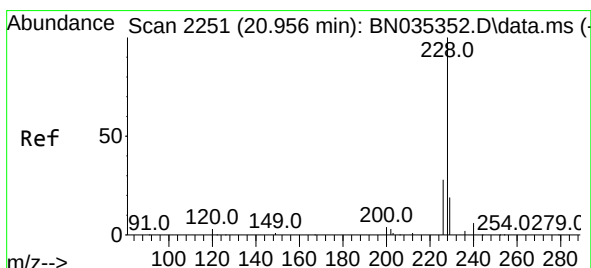
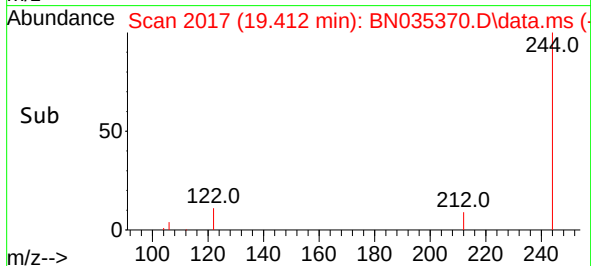
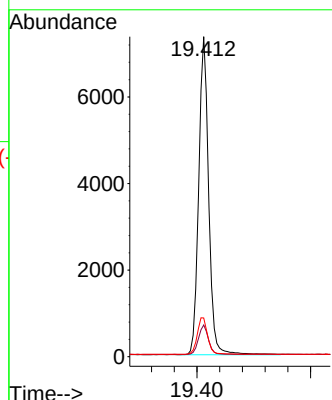
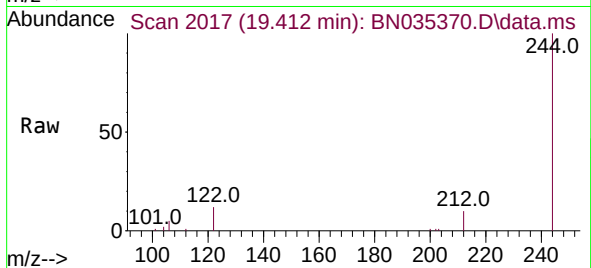
Tgt Ion:244 Resp: 8912

Ion Ratio Lower Upper

244 100

212 9.9 8.1 12.1

122 12.1 10.3 15.5



#32

Benzo(a)anthracene

Concen: 0.433 ng

RT: 20.956 min Scan# 2251

Delta R.T. 0.000 min

Lab File: BN035370.D

Acq: 28 Nov 2024 06:03

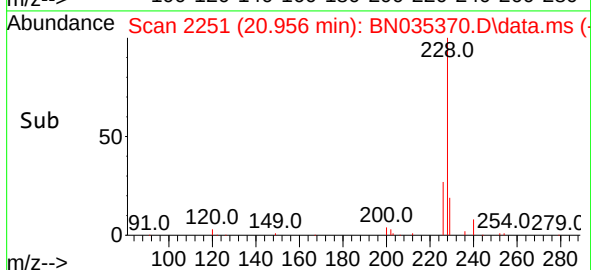
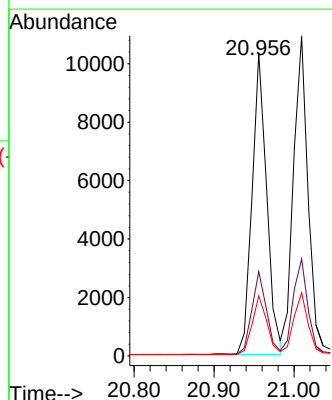
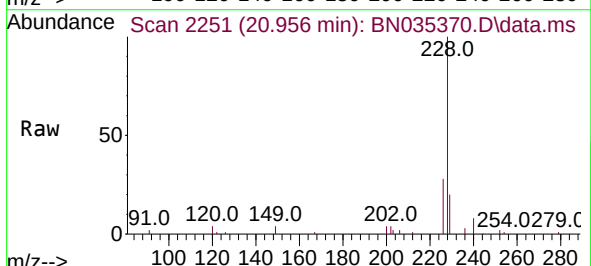
Tgt Ion:228 Resp: 13138

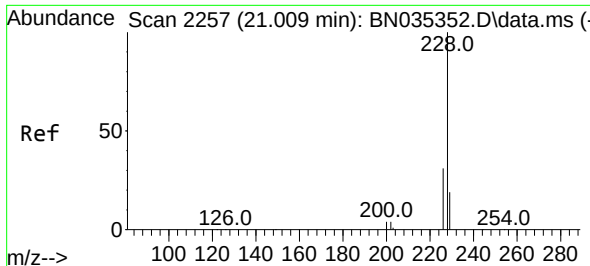
Ion Ratio Lower Upper

228 100

226 27.8 22.5 33.7

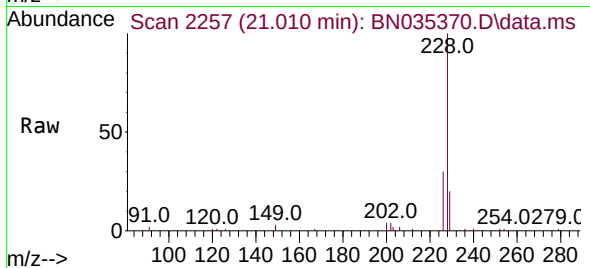
229 19.8 15.8 23.8



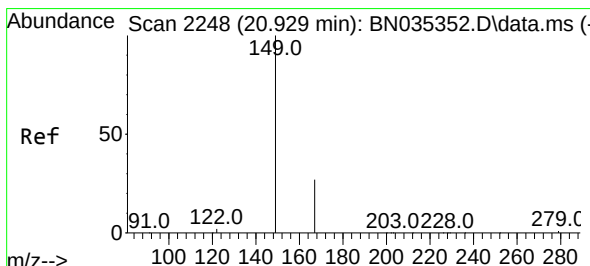
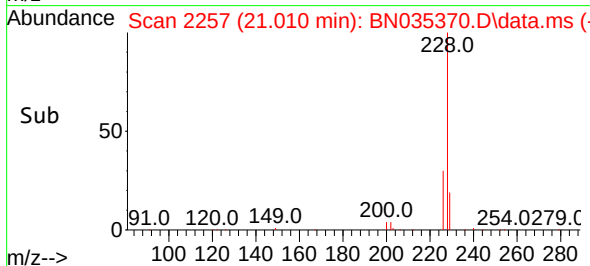
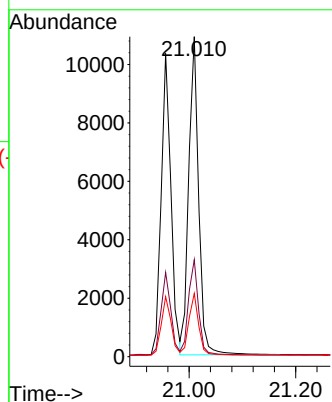


#33  
Chrysene  
Concen: 0.451 ng  
RT: 21.010 min Scan# 21  
Delta R.T. 0.000 min  
Lab File: BN035370.D  
Acq: 28 Nov 2024 06:03

Instrument :  
BNA\_N  
ClientSampleId :  
PB165198BS

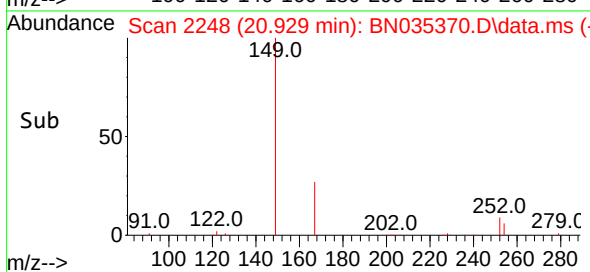
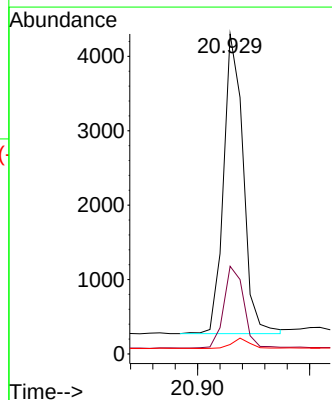
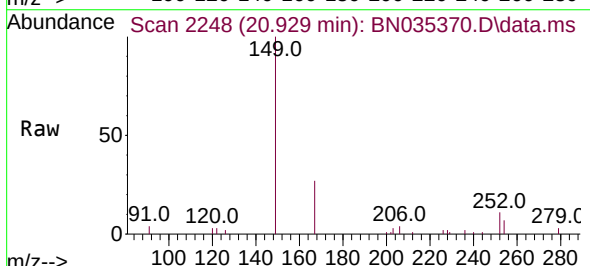


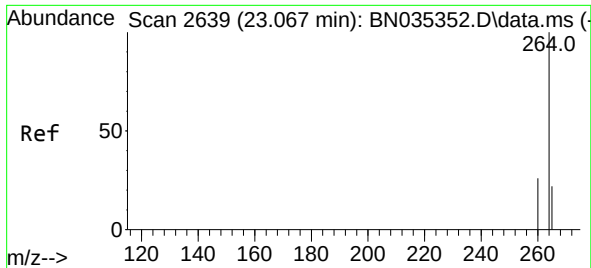
Tgt Ion:228 Resp: 14112  
Ion Ratio Lower Upper  
228 100  
226 30.3 24.6 37.0  
229 19.8 15.9 23.9



#34  
Bis(2-ethylhexyl)phthalate  
Concen: 0.410 ng  
RT: 20.929 min Scan# 2248  
Delta R.T. 0.000 min  
Lab File: BN035370.D  
Acq: 28 Nov 2024 06:03

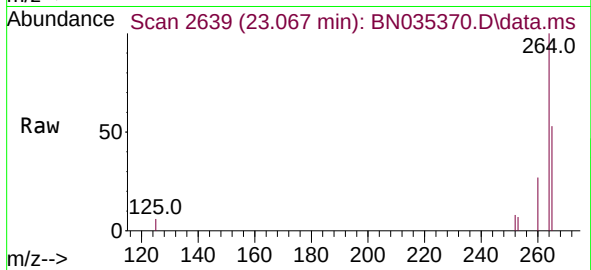
Tgt Ion:149 Resp: 4912  
Ion Ratio Lower Upper  
149 100  
167 27.8 22.2 33.4  
279 3.2 2.7 4.1



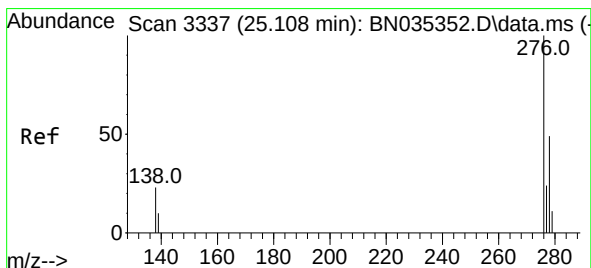
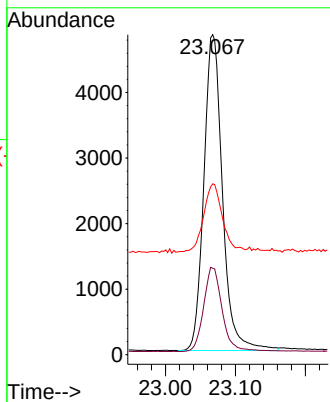
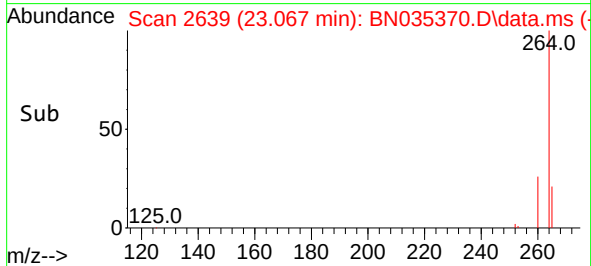


#35  
Perylene-d12  
Concen: 0.400 ng  
RT: 23.067 min Scan# 2639  
Delta R.T. 0.000 min  
Lab File: BN035370.D  
Acq: 28 Nov 2024 06:03

Instrument :  
BNA\_N  
ClientSampleId :  
PB165198BS

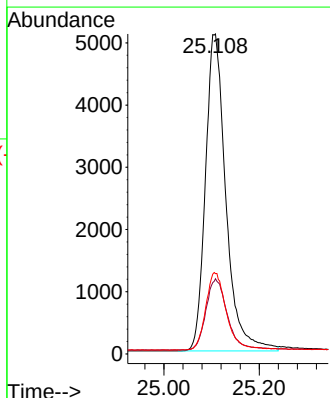
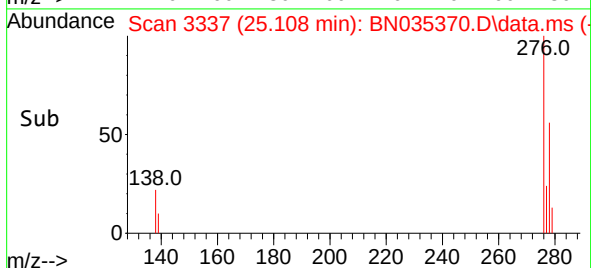
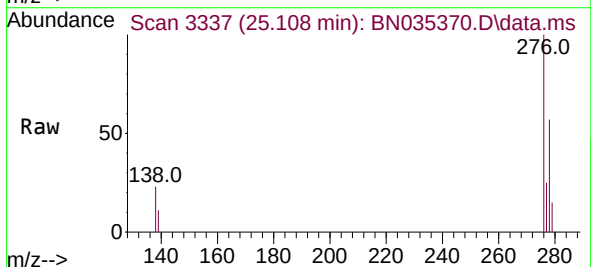


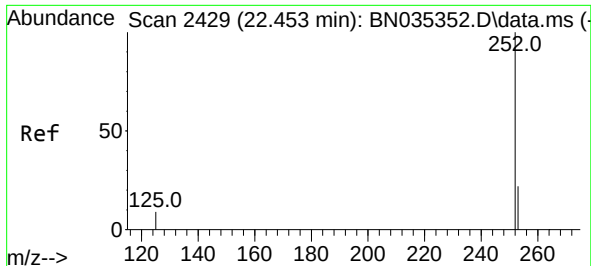
Tgt Ion:264 Resp: 8924  
Ion Ratio Lower Upper  
264 100  
260 27.0 21.4 32.2  
265 53.4 40.2 60.4



#36  
Indeno(1,2,3-cd)pyrene  
Concen: 0.436 ng  
RT: 25.108 min Scan# 3337  
Delta R.T. 0.000 min  
Lab File: BN035370.D  
Acq: 28 Nov 2024 06:03

Tgt Ion:276 Resp: 15213  
Ion Ratio Lower Upper  
276 100  
138 23.1 19.4 29.0  
277 24.6 19.8 29.6

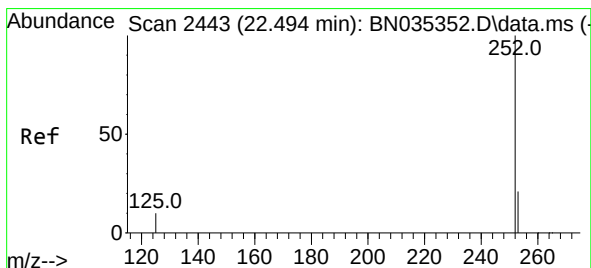
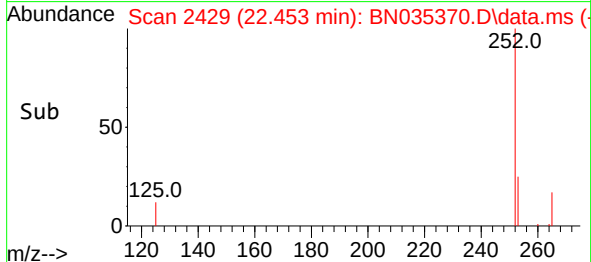
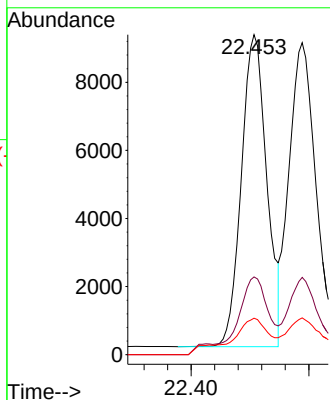
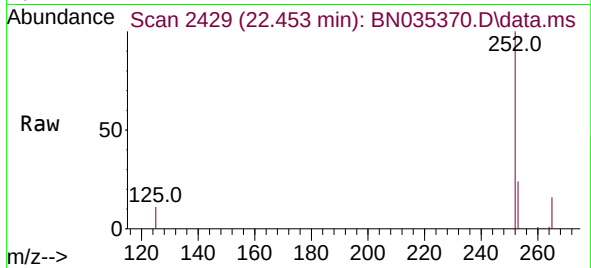




#37  
Benzo(b)fluoranthene  
Concen: 0.491 ng  
RT: 22.453 min Scan# 2429  
Delta R.T. 0.000 min  
Lab File: BN035370.D  
Acq: 28 Nov 2024 06:03

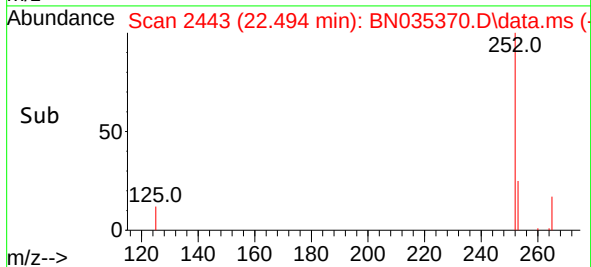
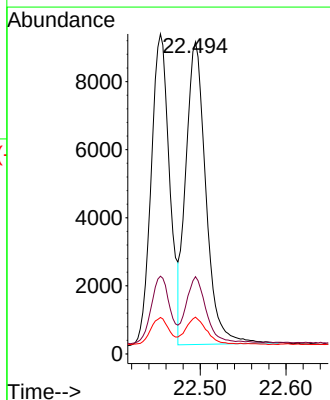
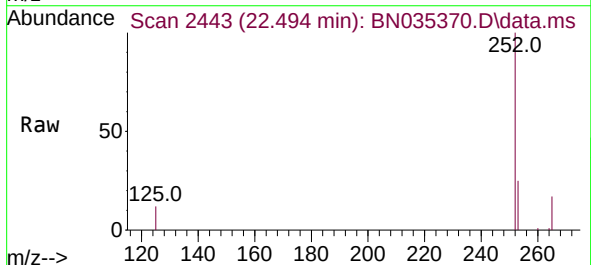
Instrument :  
BNA\_N  
ClientSampleId :  
PB165198BS

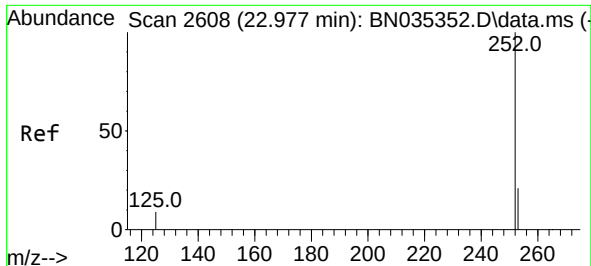
Tgt Ion:252 Resp: 16020  
Ion Ratio Lower Upper  
252 100  
253 24.3 19.6 29.4  
125 11.4 9.6 14.4



#38  
Benzo(k)fluoranthene  
Concen: 0.450 ng  
RT: 22.494 min Scan# 2443  
Delta R.T. 0.000 min  
Lab File: BN035370.D  
Acq: 28 Nov 2024 06:03

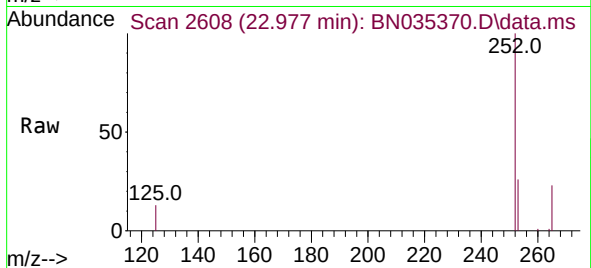
Tgt Ion:252 Resp: 14448  
Ion Ratio Lower Upper  
252 100  
253 24.8 19.5 29.3  
125 11.8 10.2 15.4



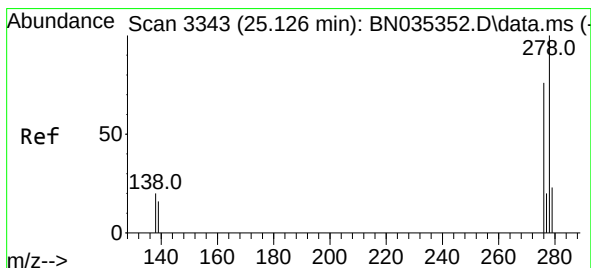
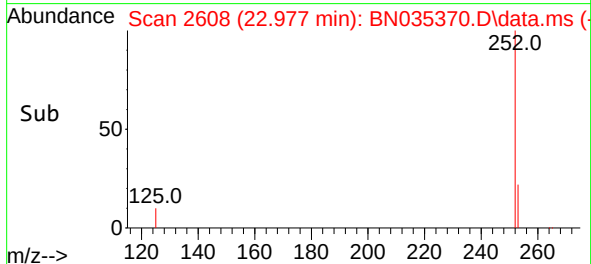
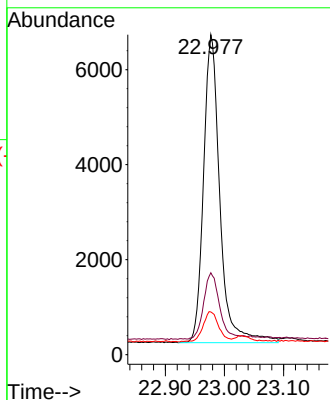


#39  
Benzo(a)pyrene  
Concen: 0.462 ng  
RT: 22.977 min Scan# 20  
Delta R.T. 0.000 min  
Lab File: BN035370.D  
Acq: 28 Nov 2024 06:03

Instrument :  
BNA\_N  
ClientSampleId :  
PB165198BS

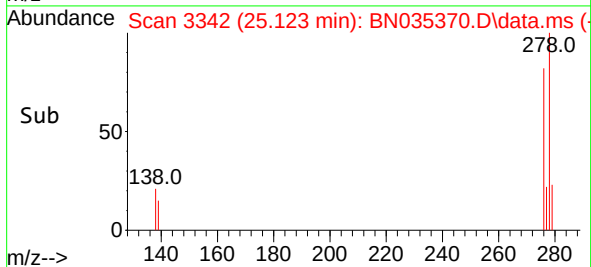
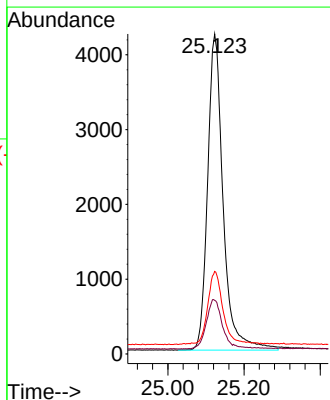
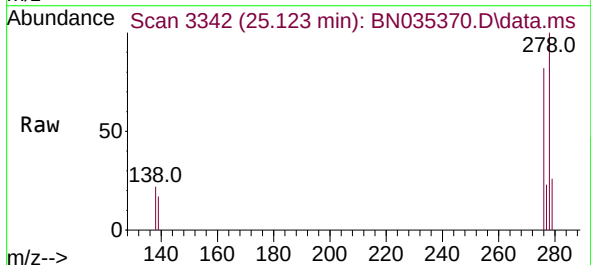


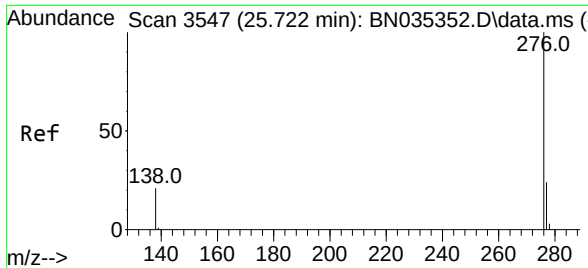
Tgt Ion:252 Resp: 12434  
Ion Ratio Lower Upper  
252 100  
253 25.6 20.2 30.4  
125 13.4 10.9 16.3



#40  
Dibenzo(a,h)anthracene  
Concen: 0.433 ng  
RT: 25.123 min Scan# 3342  
Delta R.T. -0.003 min  
Lab File: BN035370.D  
Acq: 28 Nov 2024 06:03

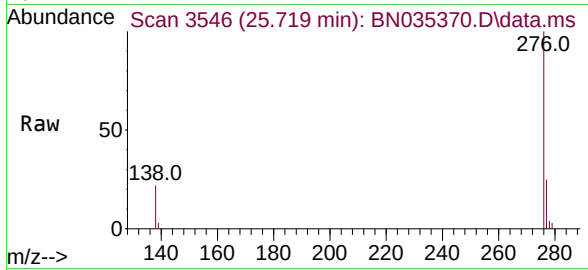
Tgt Ion:278 Resp: 11913  
Ion Ratio Lower Upper  
278 100  
139 16.8 14.2 21.4  
279 25.8 20.5 30.7



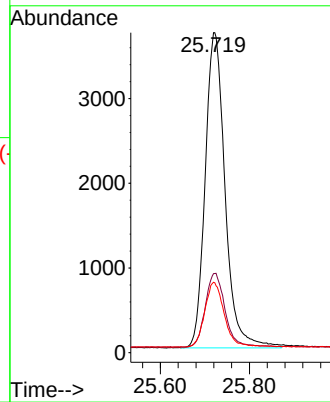
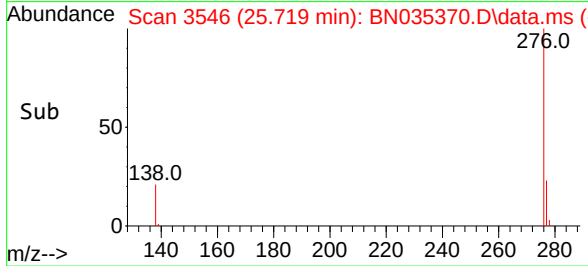


#41  
Benzo(g,h,i)perylene  
Concen: 0.402 ng  
RT: 25.719 min Scan# 31  
Delta R.T. -0.003 min  
Lab File: BN035370.D  
Acq: 28 Nov 2024 06:03

Instrument :  
BNA\_N  
ClientSampleId :  
PB165198BS



|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 276   | Resp: | 11556 |
| Ion Ratio | Lower | Upper |       |
| 276       | 100   |       |       |
| 277       | 24.7  | 19.9  | 29.9  |
| 138       | 22.0  | 17.8  | 26.8  |





Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN112724\  
 Data File : BN035371.D  
 Acq On : 28 Nov 2024 06:39  
 Operator : RC/JU  
 Sample : PB165198BSD  
 Misc :  
 ALS Vial : 25 Sample Multiplier: 1

Instrument :  
 BNA\_N  
 ClientSampleId :  
 PB165198BSD

Quant Time: Nov 28 07:04:26 2024  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\8270-SIM-BN112724.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Wed Nov 27 23:03:24 2024  
 Response via : Initial Calibration

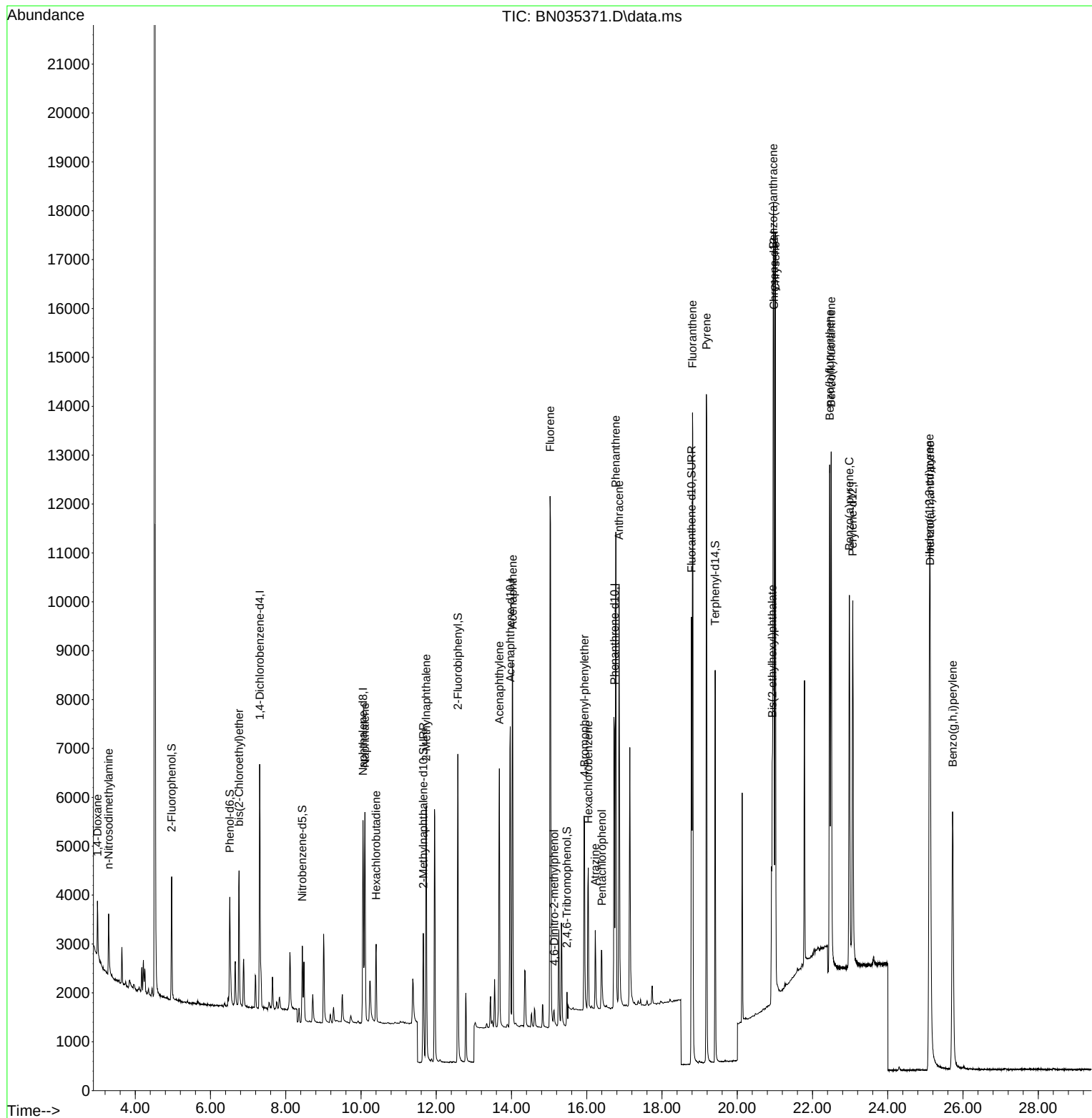
| Compound                      | R.T.   | QIon | Response | Conc  | Units | Dev(Min) |
|-------------------------------|--------|------|----------|-------|-------|----------|
| -----                         |        |      |          |       |       |          |
| Internal Standards            |        |      |          |       |       |          |
| 1) 1,4-Dichlorobenzene-d4     | 7.308  | 152  | 2376     | 0.400 | ng    | 0.00     |
| 7) Naphthalene-d8             | 10.052 | 136  | 5724     | 0.400 | ng    | 0.00     |
| 13) Acenaphthene-d10          | 13.967 | 164  | 3806     | 0.400 | ng    | 0.00     |
| 19) Phenanthrene-d10          | 16.735 | 188  | 9566     | 0.400 | ng    | 0.00     |
| 29) Chrysene-d12              | 20.974 | 240  | 8948     | 0.400 | ng    | 0.00     |
| 35) Perylene-d12              | 23.070 | 264  | 9280     | 0.400 | ng    | 0.00     |
| System Monitoring Compounds   |        |      |          |       |       |          |
| 4) 2-Fluorophenol             | 4.968  | 112  | 2117     | 0.356 | ng    | 0.00     |
| 5) Phenol-d6                  | 6.513  | 99   | 2409     | 0.337 | ng    | 0.00     |
| 8) Nitrobenzene-d5            | 8.440  | 82   | 1590     | 0.455 | ng    | 0.00     |
| 11) 2-Methylnaphthalene-d10   | 11.656 | 152  | 4544     | 0.507 | ng    | 0.00     |
| 14) 2,4,6-Tribromophenol      | 15.475 | 330  | 658      | 0.244 | ng    | 0.00     |
| 15) 2-Fluorobiphenyl          | 12.574 | 172  | 6011     | 0.418 | ng    | 0.00     |
| 27) Fluoranthene-d10          | 18.784 | 212  | 10713    | 0.395 | ng    | 0.00     |
| 31) Terphenyl-d14             | 19.412 | 244  | 7957     | 0.451 | ng    | 0.00     |
| Target Compounds              |        |      |          |       |       |          |
|                               |        |      |          |       |       | Qvalue   |
| 2) 1,4-Dioxane                | 2.996  | 88   | 783      | 0.345 | ng    | # 72     |
| 3) n-Nitrosodimethylamine     | 3.292  | 42   | 727      | 0.384 | ng    | # 97     |
| 6) bis(2-Chloroethyl)ether    | 6.759  | 93   | 2213     | 0.368 | ng    | 99       |
| 9) Naphthalene                | 10.105 | 128  | 5692     | 0.377 | ng    | 99       |
| 10) Hexachlorobutadiene       | 10.404 | 225  | 1371     | 0.394 | ng    | # 100    |
| 12) 2-Methylnaphthalene       | 11.732 | 142  | 3934     | 0.364 | ng    | 99       |
| 16) Acenaphthylene            | 13.678 | 152  | 6299     | 0.394 | ng    | 100      |
| 17) Acenaphthene              | 14.031 | 154  | 4018     | 0.379 | ng    | 99       |
| 18) Fluorene                  | 15.026 | 166  | 5740     | 0.378 | ng    | 98       |
| 20) 4,6-Dinitro-2-methylph... | 15.132 | 198  | 344      | 0.366 | ng    | 96       |
| 21) 4-Bromophenyl-phenylether | 15.941 | 248  | 2102     | 0.376 | ng    | 97       |
| 22) Hexachlorobenzene         | 16.040 | 284  | 2466     | 0.375 | ng    | 99       |
| 23) Atrazine                  | 16.227 | 200  | 1420     | 0.357 | ng    | 97       |
| 24) Pentachlorophenol         | 16.400 | 266  | 828      | 0.290 | ng    | # 84     |
| 25) Phenanthrene              | 16.773 | 178  | 10055    | 0.383 | ng    | 100      |
| 26) Anthracene                | 16.860 | 178  | 9171     | 0.386 | ng    | 100      |
| 28) Fluoranthene              | 18.812 | 202  | 12304    | 0.347 | ng    | 100      |
| 30) Pyrene                    | 19.179 | 202  | 12695    | 0.384 | ng    | 100      |
| 32) Benzo(a)anthracene        | 20.956 | 228  | 11626    | 0.371 | ng    | 100      |
| 33) Chrysene                  | 21.009 | 228  | 12682    | 0.393 | ng    | 100      |
| 34) Bis(2-ethylhexyl)phtha... | 20.929 | 149  | 4303     | 0.348 | ng    | 100      |
| 36) Indeno(1,2,3-cd)pyrene    | 25.108 | 276  | 14123    | 0.389 | ng    | 99       |
| 37) Benzo(b)fluoranthene      | 22.456 | 252  | 12457    | 0.367 | ng    | 99       |
| 38) Benzo(k)fluoranthene      | 22.497 | 252  | 13182    | 0.394 | ng    | 99       |
| 39) Benzo(a)pyrene            | 22.980 | 252  | 11277    | 0.403 | ng    | 99       |
| 40) Dibenzo(a,h)anthracene    | 25.128 | 278  | 10990    | 0.384 | ng    | 99       |
| 41) Benzo(g,h,i)perylene      | 25.725 | 276  | 10607    | 0.355 | ng    | 99       |
| -----                         |        |      |          |       |       |          |

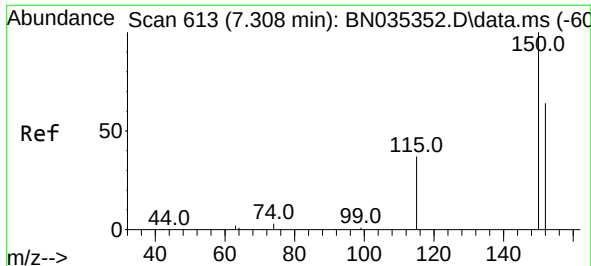
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN112724\  
Data File : BN035371.D  
Acq On : 28 Nov 2024 06:39  
Operator : RC/JU  
Sample : PB165198BSD  
Misc :  
ALS Vial : 25 Sample Multiplier: 1

Instrument :  
BNA\_N  
ClientSampleId :  
PB165198BSD

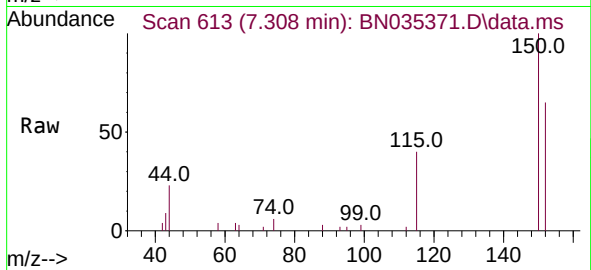
Quant Time: Nov 28 07:04:26 2024  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\8270-SIM-BN112724.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Wed Nov 27 23:03:24 2024  
Response via : Initial Calibration



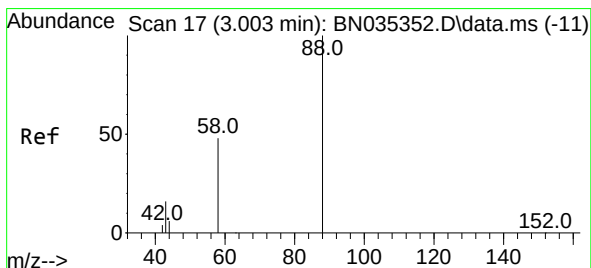
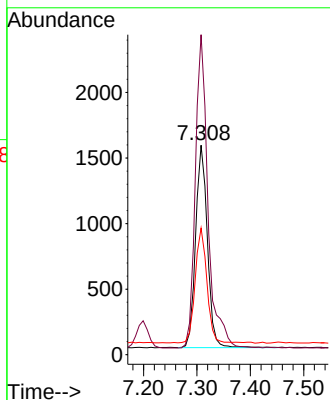
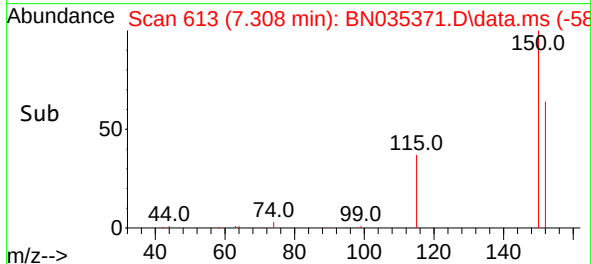


#1  
 1,4-Dichlorobenzene-d4  
 Concen: 0.400 ng  
 RT: 7.308 min Scan# 61  
 Delta R.T. -0.000 min  
 Lab File: BN035371.D  
 Acq: 28 Nov 2024 06:39

Instrument :  
 BNA\_N  
 ClientSampleId :  
 PB165198BSD

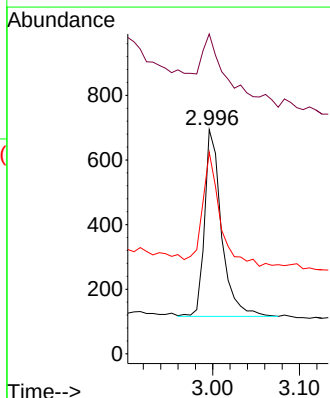
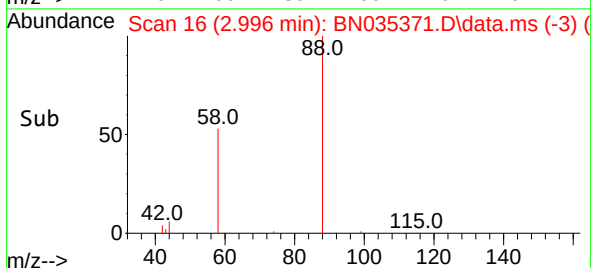
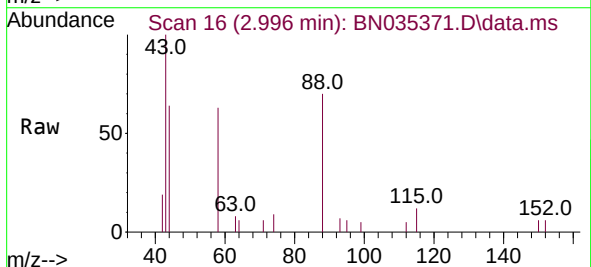


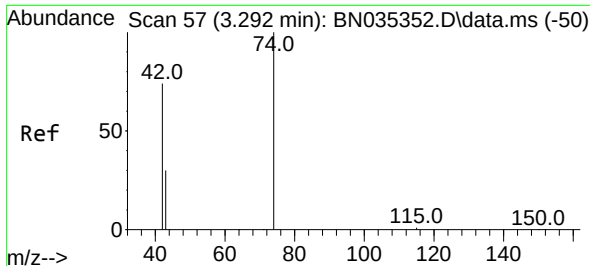
Tgt Ion:152 Resp: 2376  
 Ion Ratio Lower Upper  
 152 100  
 150 152.8 124.0 186.0  
 115 60.4 49.6 74.4



#2  
 1,4-Dioxane  
 Concen: 0.345 ng  
 RT: 2.996 min Scan# 16  
 Delta R.T. -0.007 min  
 Lab File: BN035371.D  
 Acq: 28 Nov 2024 06:39

Tgt Ion: 88 Resp: 783  
 Ion Ratio Lower Upper  
 88 100  
 43 58.7 17.2 25.8#  
 58 62.1 44.5 66.7

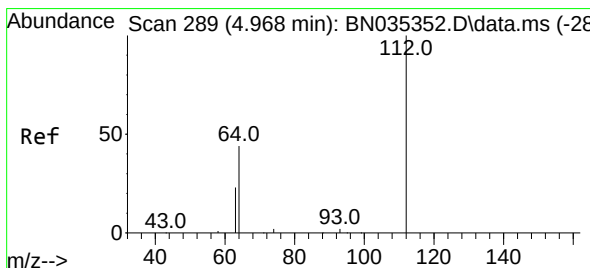
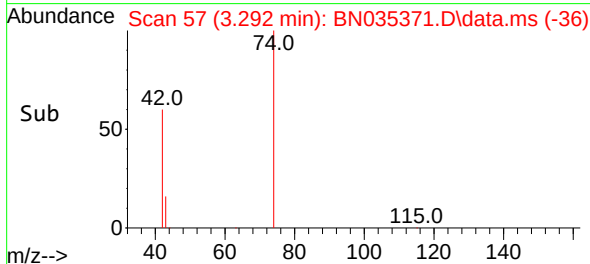
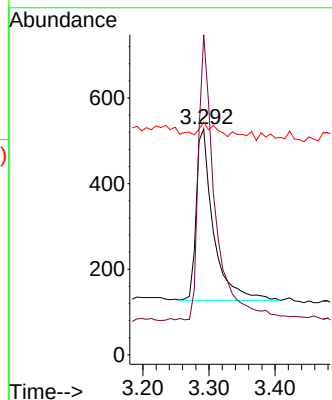
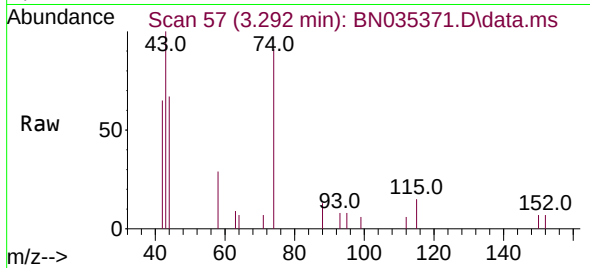




#3  
n-Nitrosodimethylamine  
Concen: 0.384 ng  
RT: 3.292 min Scan# 51  
Delta R.T. -0.000 min  
Lab File: BN035371.D  
Acq: 28 Nov 2024 06:39

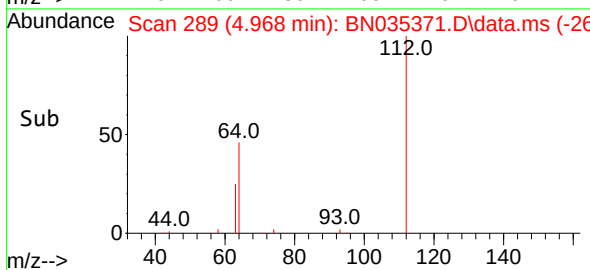
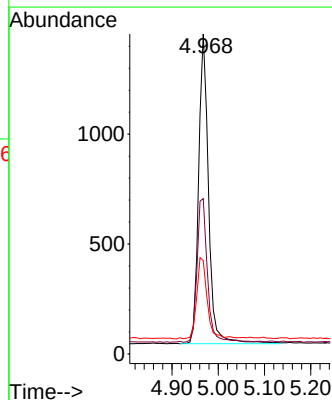
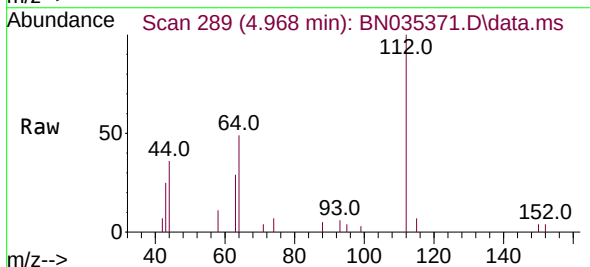
Instrument :  
BNA\_N  
ClientSampleId :  
PB165198BSD

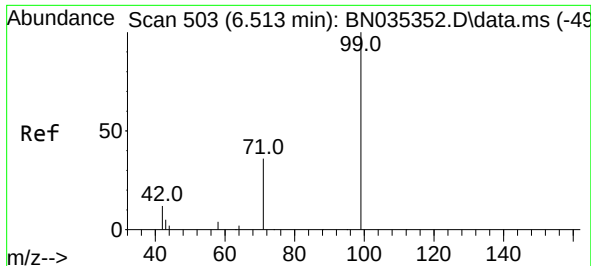
Tgt Ion: 42 Resp: 727  
Ion Ratio Lower Upper  
42 100  
74 159.8 124.9 187.3  
44 7.0 2.2 3.4#



#4  
2-Fluorophenol  
Concen: 0.356 ng  
RT: 4.968 min Scan# 289  
Delta R.T. -0.000 min  
Lab File: BN035371.D  
Acq: 28 Nov 2024 06:39

Tgt Ion: 112 Resp: 2117  
Ion Ratio Lower Upper  
112 100  
64 48.9 39.8 59.8  
63 27.9 21.0 31.6

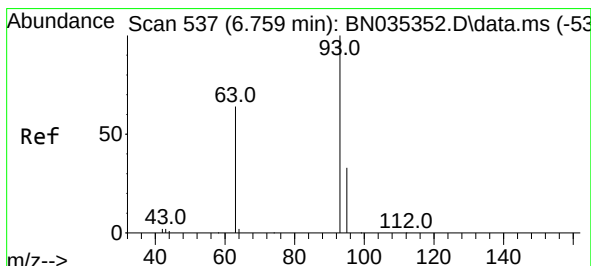
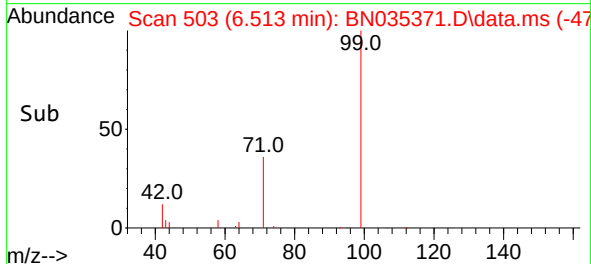
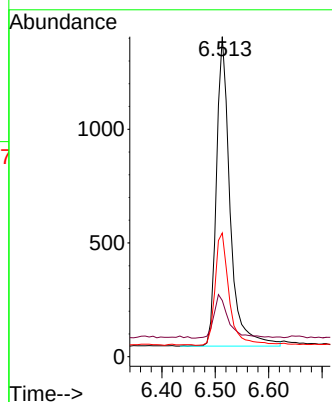
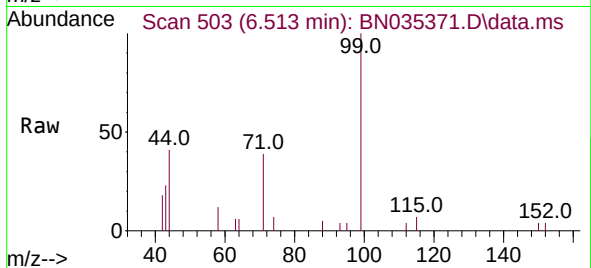




#5  
Phenol-d6  
Concen: 0.337 ng  
RT: 6.513 min Scan# 503  
Delta R.T. -0.000 min  
Lab File: BN035371.D  
Acq: 28 Nov 2024 06:39

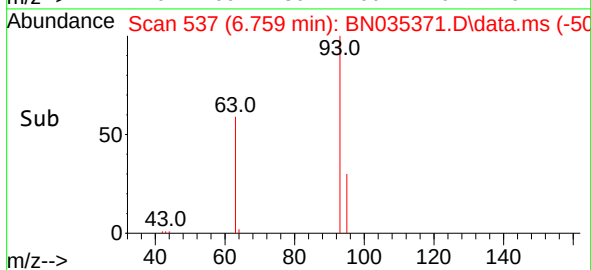
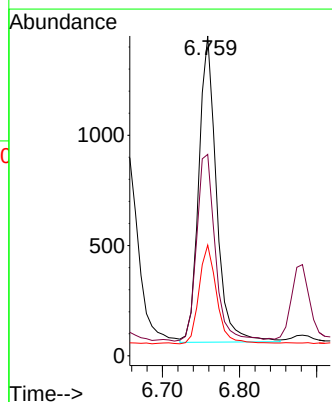
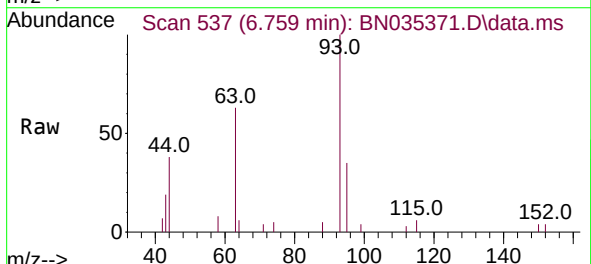
Instrument :  
BNA\_N  
ClientSampleId :  
PB165198BSD

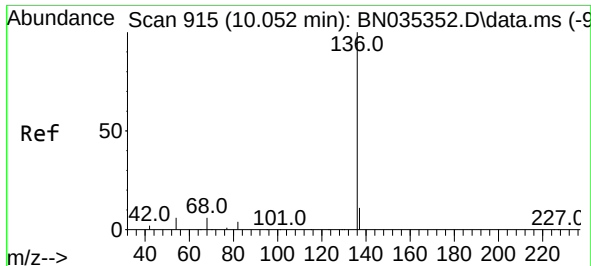
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 99    | Resp: | 2409  |
| Ion      | Ratio | Lower | Upper |
| 99       | 100   |       |       |
| 42       | 15.1  | 11.4  | 17.2  |
| 71       | 37.7  | 29.3  | 43.9  |



#6  
bis(2-Chloroethyl)ether  
Concen: 0.368 ng  
RT: 6.759 min Scan# 537  
Delta R.T. -0.000 min  
Lab File: BN035371.D  
Acq: 28 Nov 2024 06:39

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 93    | Resp: | 2213  |
| Ion      | Ratio | Lower | Upper |
| 93       | 100   |       |       |
| 63       | 64.2  | 50.4  | 75.6  |
| 95       | 32.2  | 25.7  | 38.5  |

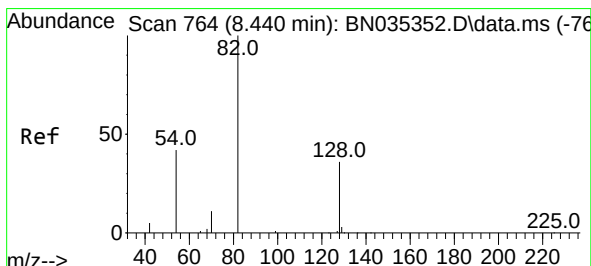
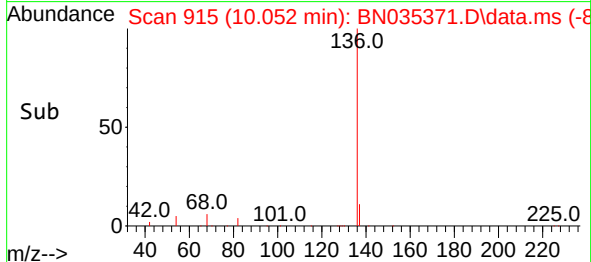
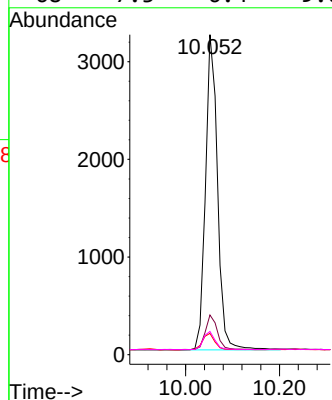
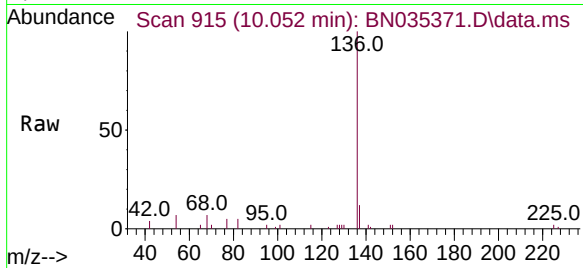




#7  
Naphthalene-d8  
Concen: 0.400 ng  
RT: 10.052 min Scan# 915  
Delta R.T. -0.000 min  
Lab File: BN035371.D  
Acq: 28 Nov 2024 06:39

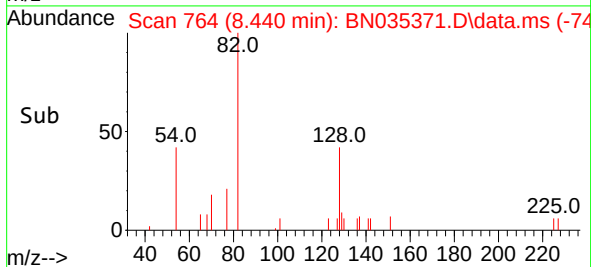
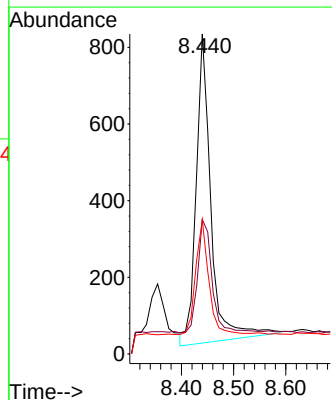
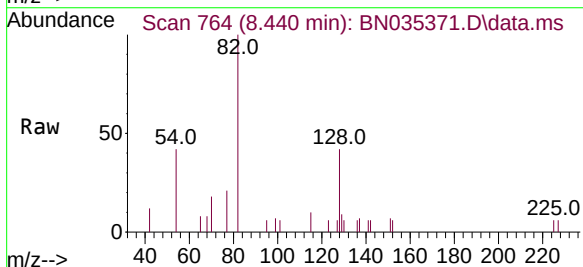
Instrument :  
BNA\_N  
ClientSampleId :  
PB165198BSD

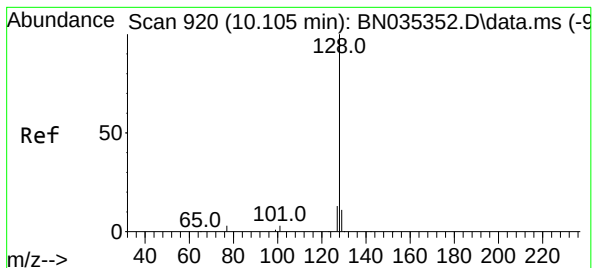
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 136   | Resp: | 5724  |
| Ion      | Ratio | Lower | Upper |
| 136      | 100   |       |       |
| 137      | 12.4  | 10.2  | 15.2  |
| 54       | 6.7   | 6.1   | 9.1   |
| 68       | 7.3   | 6.4   | 9.6   |



#8  
Nitrobenzene-d5  
Concen: 0.455 ng  
RT: 8.440 min Scan# 764  
Delta R.T. -0.000 min  
Lab File: BN035371.D  
Acq: 28 Nov 2024 06:39

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 82    | Resp: | 1590  |
| Ion      | Ratio | Lower | Upper |
| 82       | 100   |       |       |
| 128      | 42.0  | 33.4  | 50.0  |
| 54       | 41.9  | 36.7  | 55.1  |





#9

Naphthalene

Concen: 0.377 ng

RT: 10.105 min Scan# 91

Delta R.T. -0.000 min

Lab File: BN035371.D

Acq: 28 Nov 2024 06:39

Instrument :

BNA\_N

ClientSampleId :

PB165198BSD

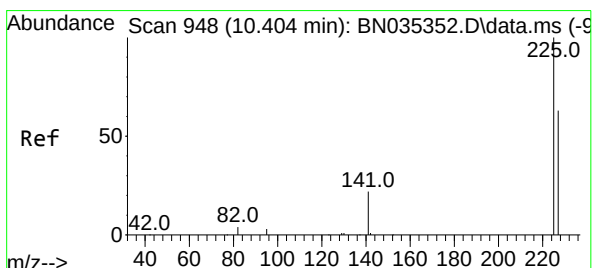
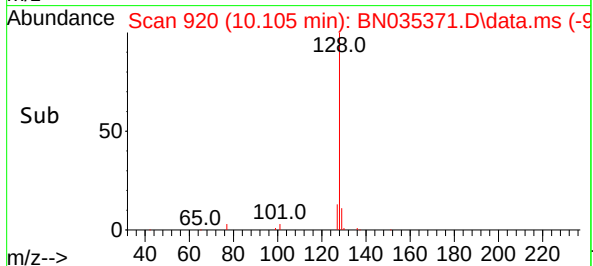
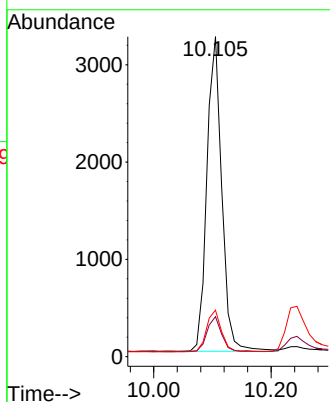
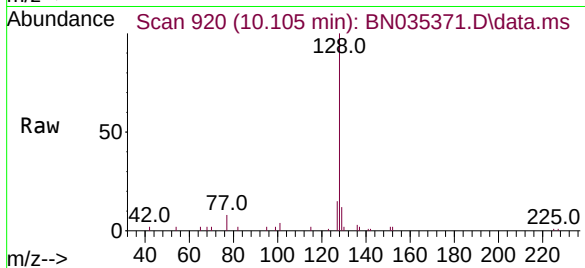
Tgt Ion:128 Resp: 5692

Ion Ratio Lower Upper

128 100

129 12.5 9.8 14.6

127 14.5 11.4 17.2



#10

Hexachlorobutadiene

Concen: 0.394 ng

RT: 10.404 min Scan# 948

Delta R.T. -0.000 min

Lab File: BN035371.D

Acq: 28 Nov 2024 06:39

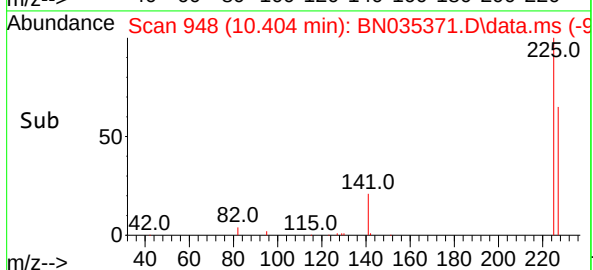
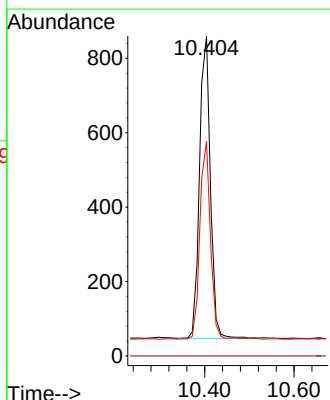
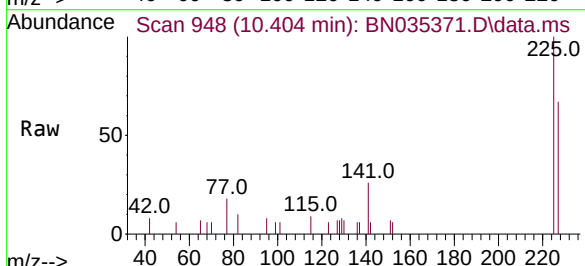
Tgt Ion:225 Resp: 1371

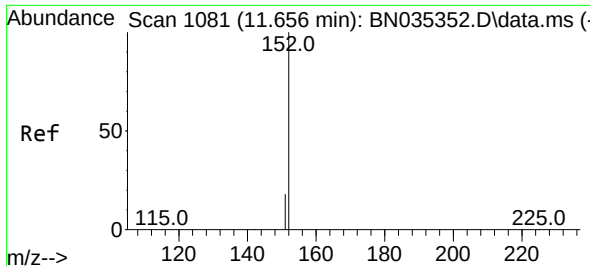
Ion Ratio Lower Upper

225 100

223 0.0 0.0 0.0

227 63.8 51.3 76.9

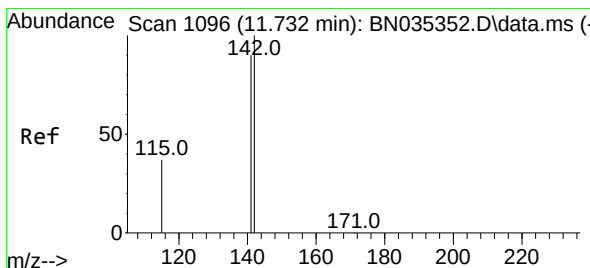
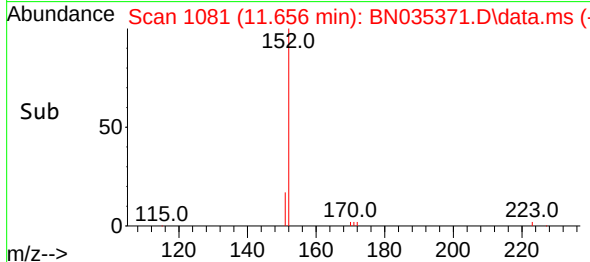
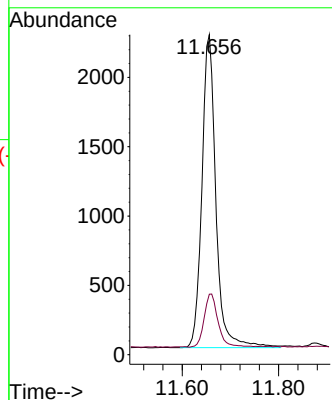
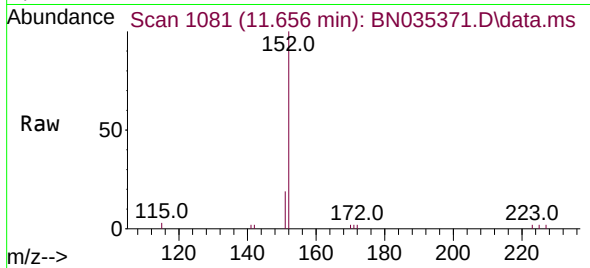




#11  
2-Methylnaphthalene-d10  
Concen: 0.507 ng  
RT: 11.656 min Scan# 1081  
Delta R.T. -0.000 min  
Lab File: BN035371.D  
Acq: 28 Nov 2024 06:39

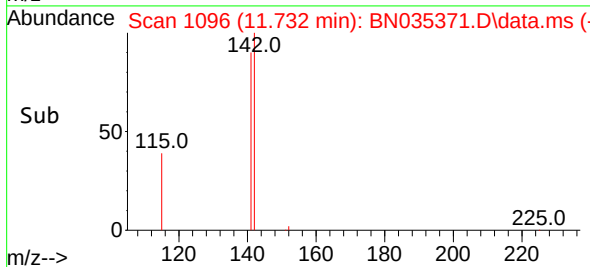
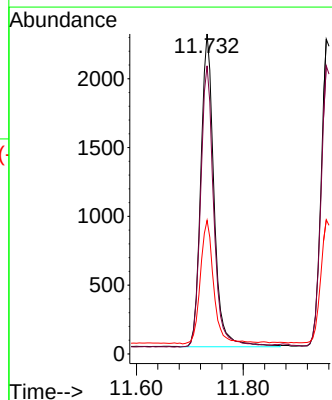
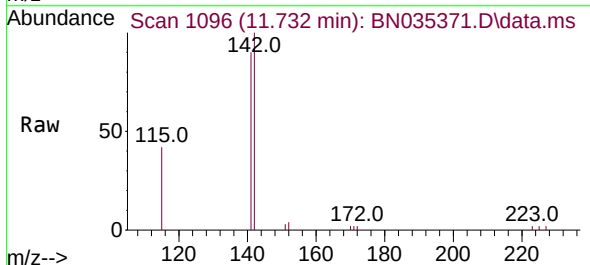
Instrument :  
BNA\_N  
ClientSampleId :  
PB165198BSD

Tgt Ion:152 Resp: 4544  
Ion Ratio Lower Upper  
152 100  
151 16.9 16.6 25.0

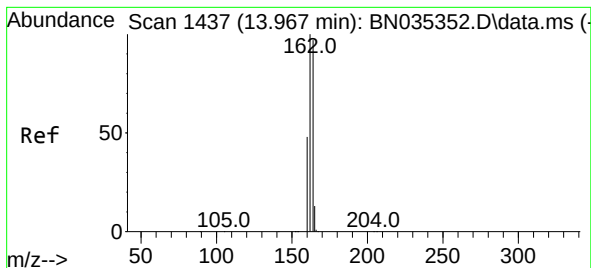


#12  
2-Methylnaphthalene  
Concen: 0.364 ng  
RT: 11.732 min Scan# 1096  
Delta R.T. -0.000 min  
Lab File: BN035371.D  
Acq: 28 Nov 2024 06:39

Tgt Ion:142 Resp: 3934  
Ion Ratio Lower Upper  
142 100  
141 90.1 72.2 108.4  
115 41.8 31.4 47.0







#13

Acenaphthene-d10

Concen: 0.400 ng

RT: 13.967 min Scan# 14

Delta R.T. -0.000 min

Lab File: BN035371.D

Acq: 28 Nov 2024 06:39

Instrument :

BNA\_N

ClientSampleId :

PB165198BSD

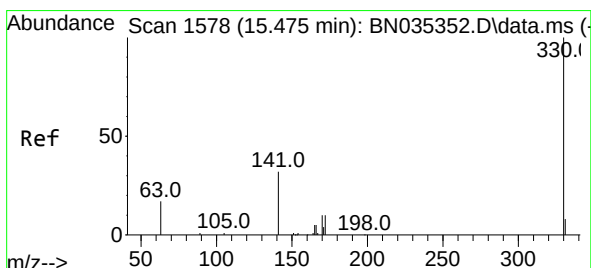
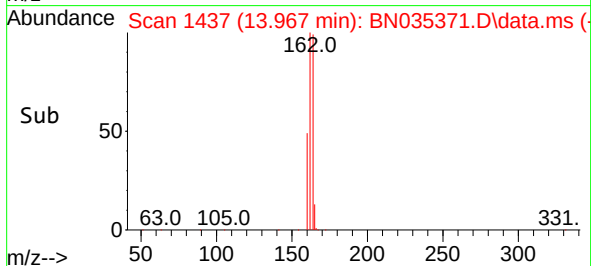
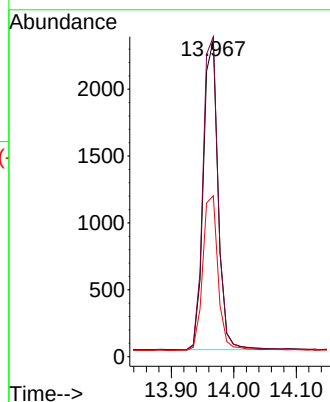
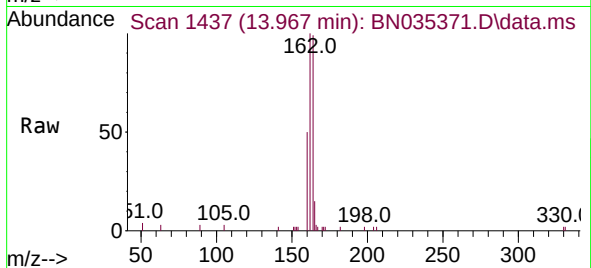
Tgt Ion:164 Resp: 3806

Ion Ratio Lower Upper

164 100

162 101.0 82.2 123.2

160 50.8 40.1 60.1



#14

2,4,6-Tribromophenol

Concen: 0.244 ng

RT: 15.475 min Scan# 1578

Delta R.T. -0.000 min

Lab File: BN035371.D

Acq: 28 Nov 2024 06:39

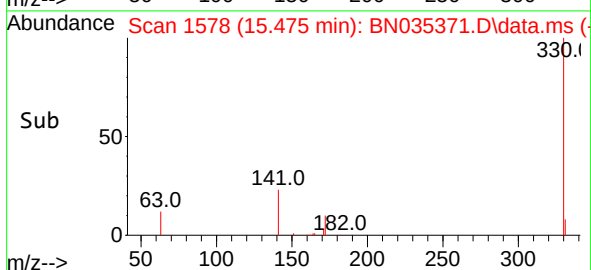
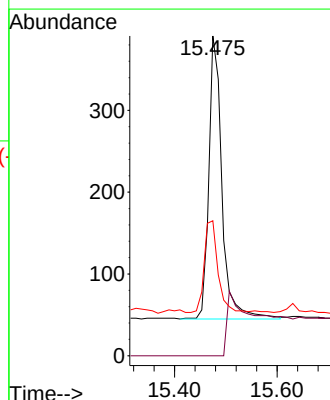
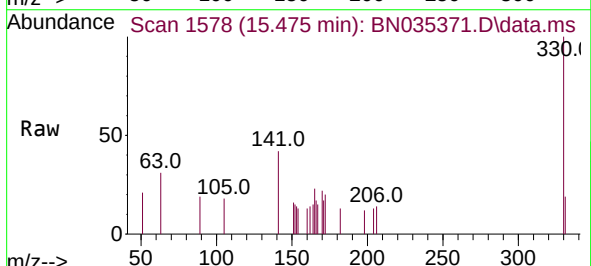
Tgt Ion:330 Resp: 658

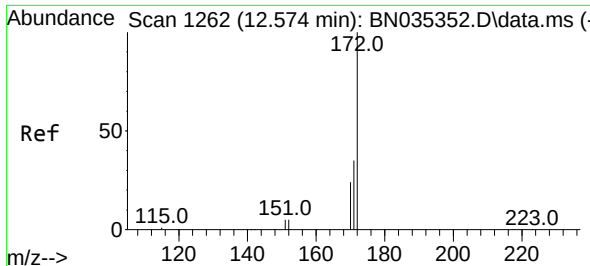
Ion Ratio Lower Upper

330 100

332 0.0 0.0 0.0

141 35.0 26.6 40.0

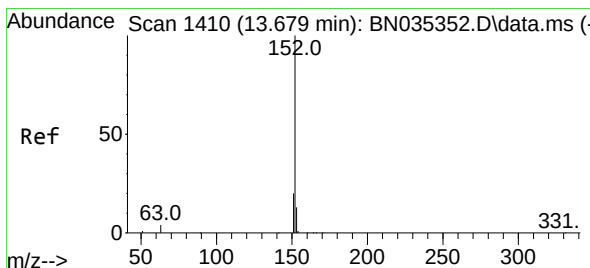
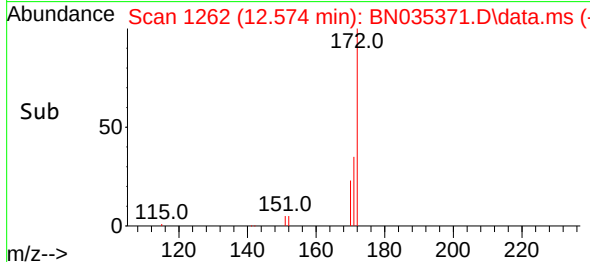
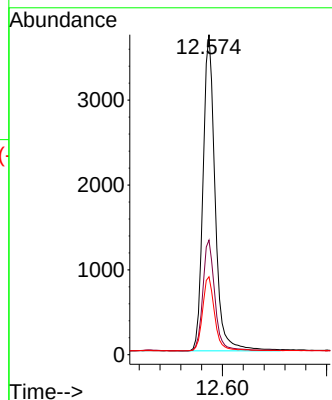
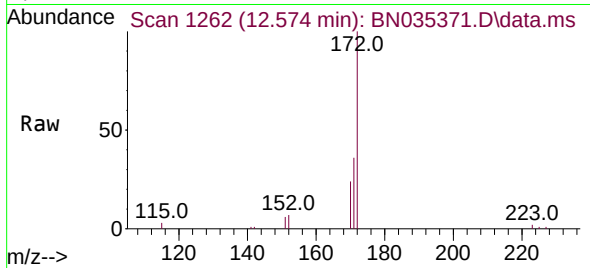




#15  
2-Fluorobiphenyl  
Concen: 0.418 ng  
RT: 12.574 min Scan# 11  
Delta R.T. -0.000 min  
Lab File: BN035371.D  
Acq: 28 Nov 2024 06:39

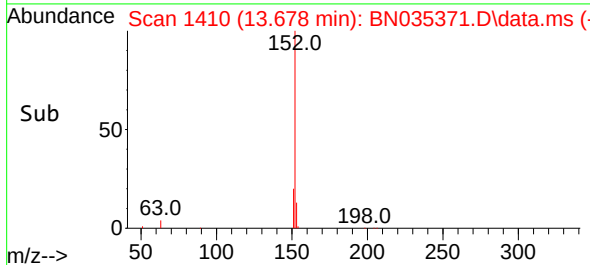
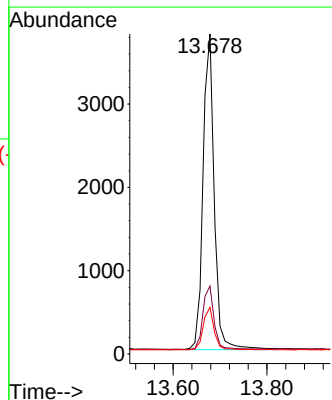
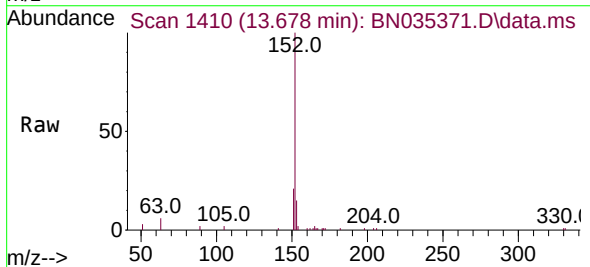
Instrument :  
BNA\_N  
ClientSampleId :  
PB165198BSD

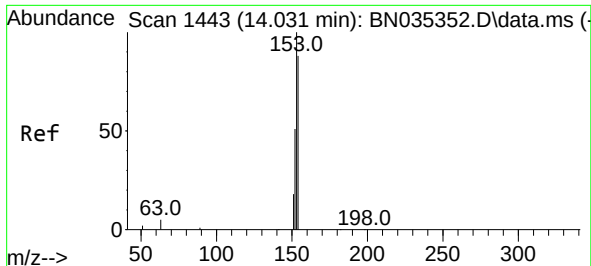
Tgt Ion:172 Resp: 6011  
Ion Ratio Lower Upper  
172 100  
171 35.8 29.0 43.4  
170 24.3 19.8 29.8



#16  
Acenaphthylene  
Concen: 0.394 ng  
RT: 13.678 min Scan# 1410  
Delta R.T. -0.000 min  
Lab File: BN035371.D  
Acq: 28 Nov 2024 06:39

Tgt Ion:152 Resp: 6299  
Ion Ratio Lower Upper  
152 100  
151 20.1 16.2 24.2  
153 13.1 10.4 15.6

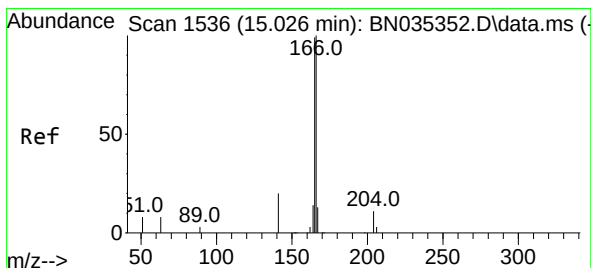
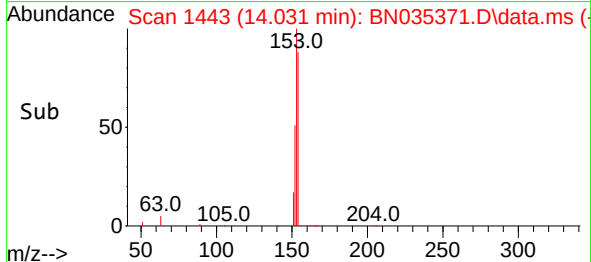
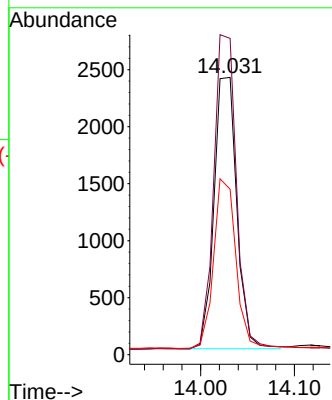
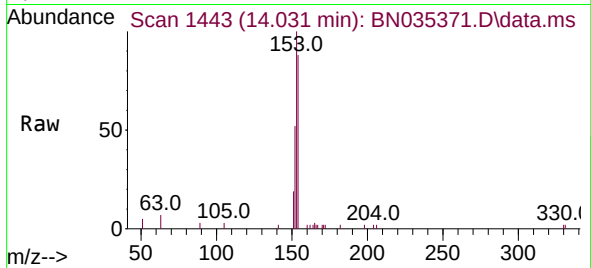




#17  
Acenaphthene  
Concen: 0.379 ng  
RT: 14.031 min Scan# 1443  
Delta R.T. -0.000 min  
Lab File: BN035371.D  
Acq: 28 Nov 2024 06:39

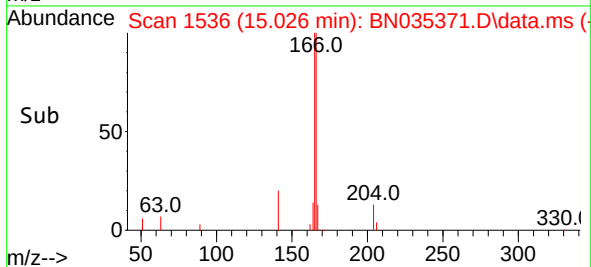
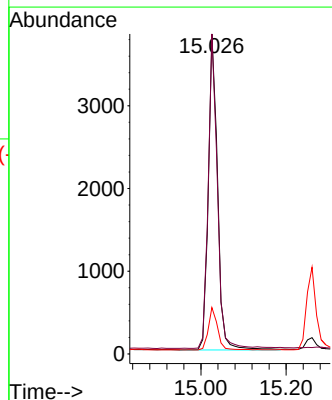
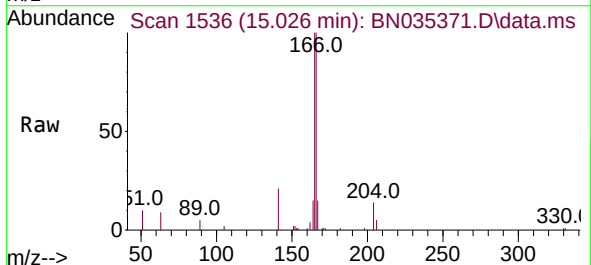
Instrument :  
BNA\_N  
ClientSampleId :  
PB165198BSD

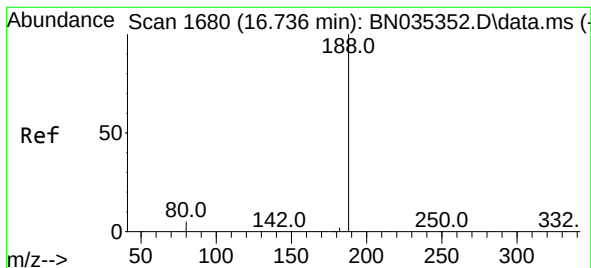
Tgt Ion:154 Resp: 4018  
Ion Ratio Lower Upper  
154 100  
153 116.3 92.6 139.0  
152 62.2 49.0 73.6



#18  
Fluorene  
Concen: 0.378 ng  
RT: 15.026 min Scan# 1536  
Delta R.T. -0.000 min  
Lab File: BN035371.D  
Acq: 28 Nov 2024 06:39

Tgt Ion:166 Resp: 5740  
Ion Ratio Lower Upper  
166 100  
165 97.3 79.7 119.5  
167 13.5 10.8 16.2





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 16.735 min Scan# 1

Delta R.T. -0.000 min

Lab File: BN035371.D

Acq: 28 Nov 2024 06:39

Instrument :

BNA\_N

ClientSampleId :

PB165198BSD

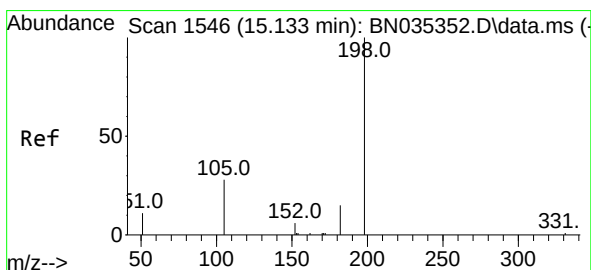
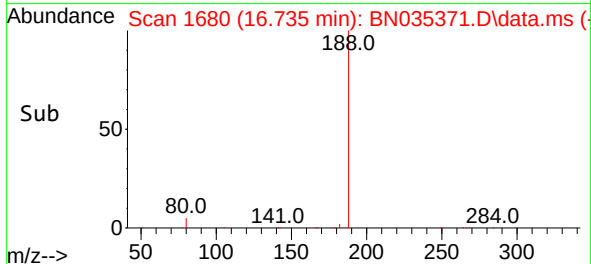
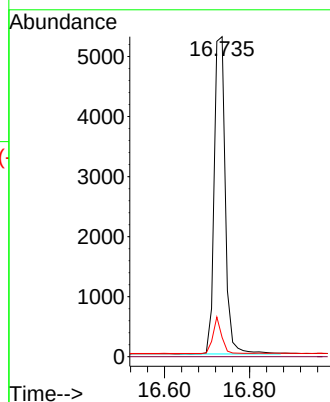
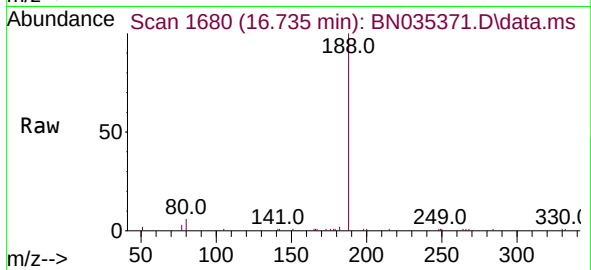
Tgt Ion:188 Resp: 9566

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 6.0 4.6 6.8



#20

4,6-Dinitro-2-methylphenol

Concen: 0.366 ng

RT: 15.132 min Scan# 1546

Delta R.T. -0.001 min

Lab File: BN035371.D

Acq: 28 Nov 2024 06:39

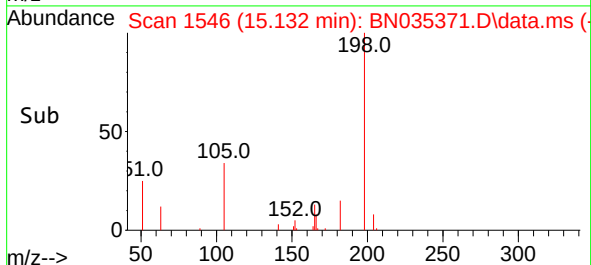
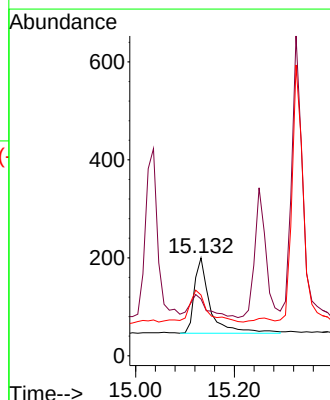
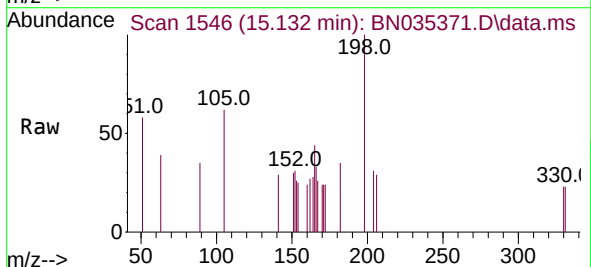
Tgt Ion:198 Resp: 344

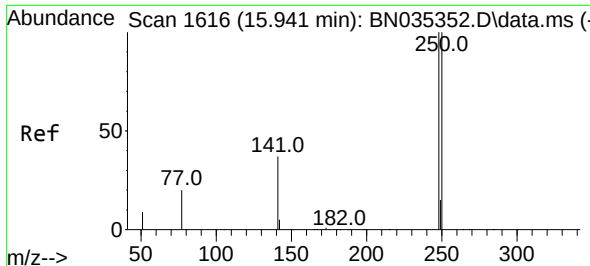
Ion Ratio Lower Upper

198 100

51 58.0 46.5 69.7

105 62.0 45.3 67.9

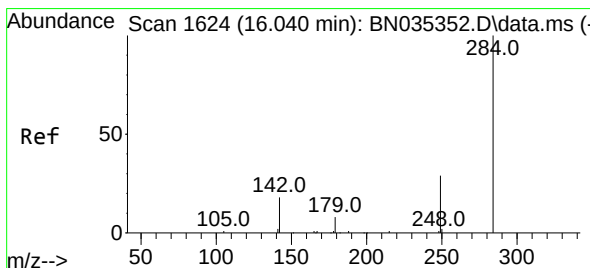
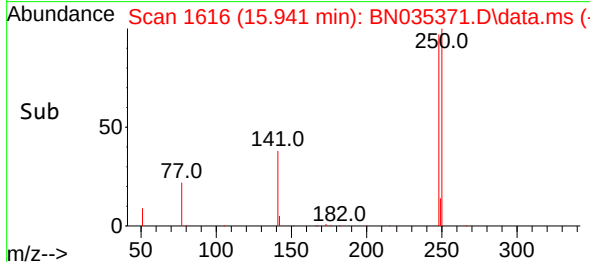
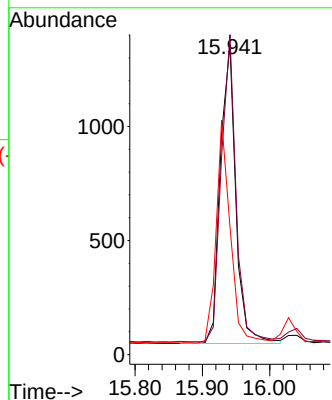
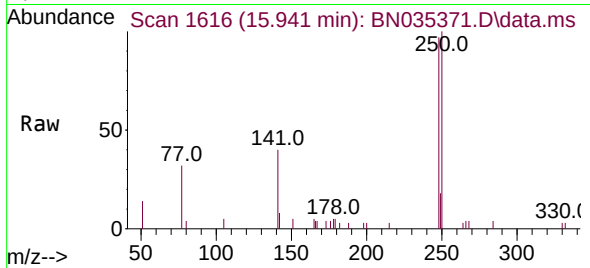




#21  
4-Bromophenyl-phenylether  
Concen: 0.376 ng  
RT: 15.941 min Scan# 1616  
Delta R.T. -0.000 min  
Lab File: BN035371.D  
Acq: 28 Nov 2024 06:39

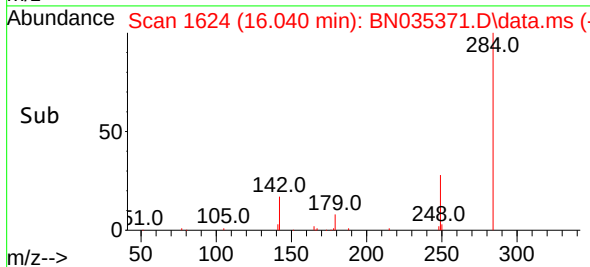
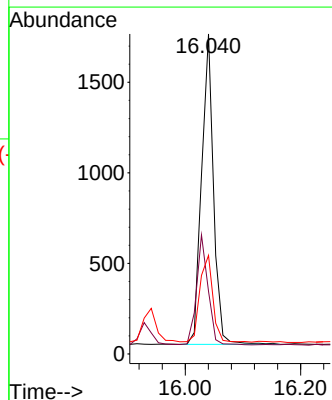
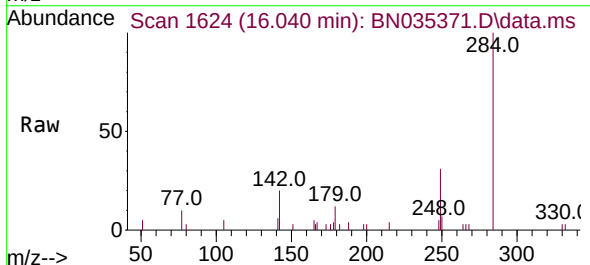
Instrument :  
BNA\_N  
ClientSampleId :  
PB165198BSD

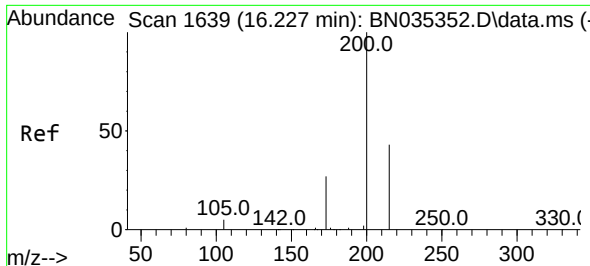
Tgt Ion:248 Resp: 2102  
Ion Ratio Lower Upper  
248 100  
250 103.4 80.6 120.8  
141 41.4 31.5 47.3



#22  
Hexachlorobenzene  
Concen: 0.375 ng  
RT: 16.040 min Scan# 1624  
Delta R.T. -0.000 min  
Lab File: BN035371.D  
Acq: 28 Nov 2024 06:39

Tgt Ion:284 Resp: 2466  
Ion Ratio Lower Upper  
284 100  
142 34.3 26.7 40.1  
249 30.7 24.6 36.8

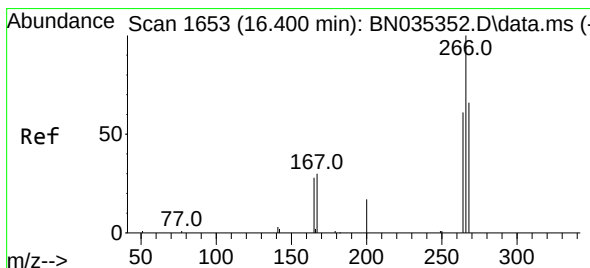
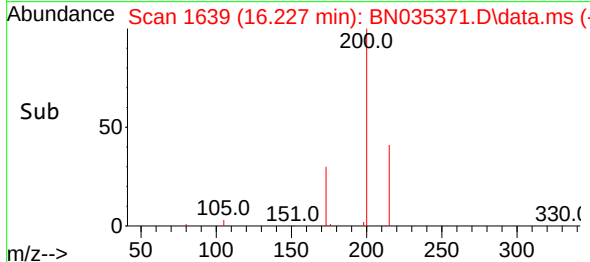
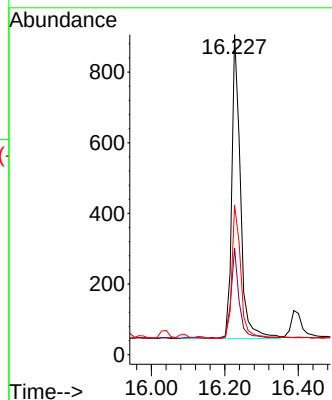
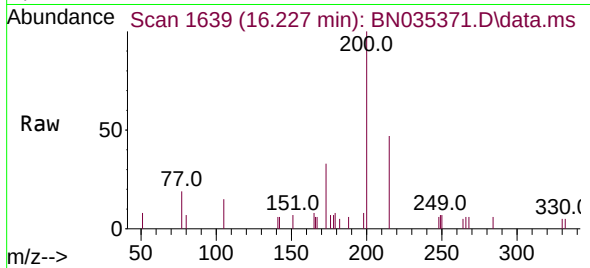




#23  
 Atrazine  
 Concen: 0.357 ng  
 RT: 16.227 min Scan# 1639  
 Delta R.T. -0.000 min  
 Lab File: BN035371.D  
 Acq: 28 Nov 2024 06:39

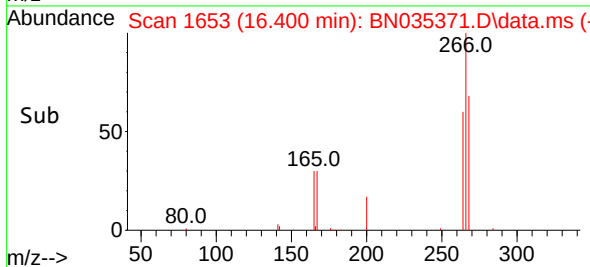
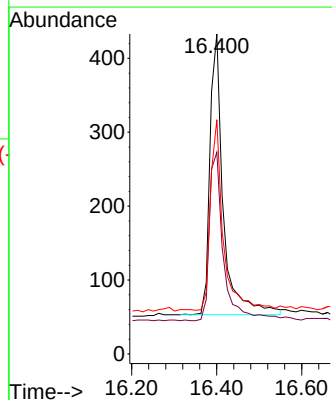
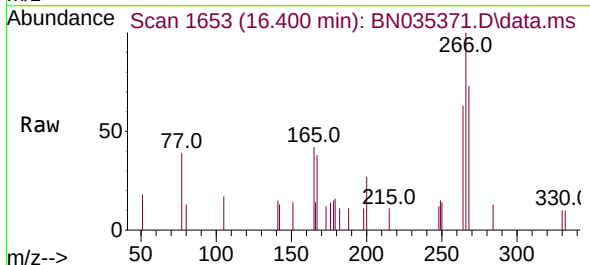
Instrument :  
 BNA\_N  
 ClientSampleId :  
 PB165198BSD

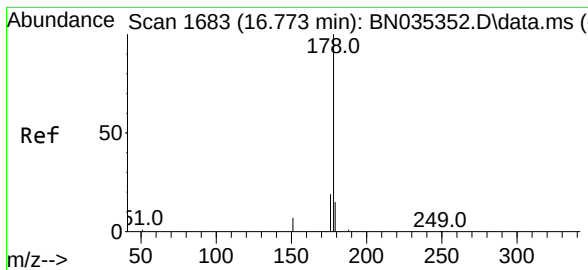
Tgt Ion:200 Resp: 1420  
 Ion Ratio Lower Upper  
 200 100  
 173 33.3 24.1 36.1  
 215 46.7 36.9 55.3



#24  
 Pentachlorophenol  
 Concen: 0.290 ng  
 RT: 16.400 min Scan# 1653  
 Delta R.T. -0.000 min  
 Lab File: BN035371.D  
 Acq: 28 Nov 2024 06:39

Tgt Ion:266 Resp: 828  
 Ion Ratio Lower Upper  
 266 100  
 264 63.5 42.3 63.5#  
 268 65.7 43.3 64.9#

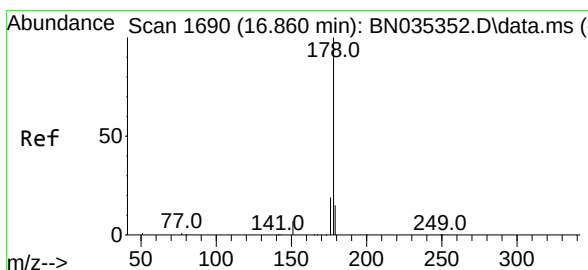
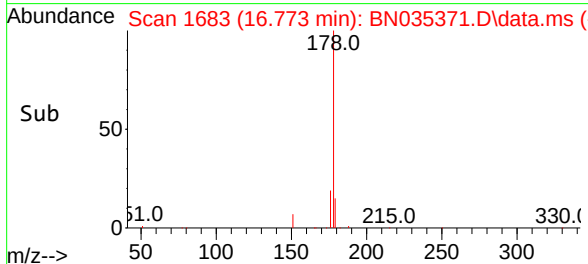
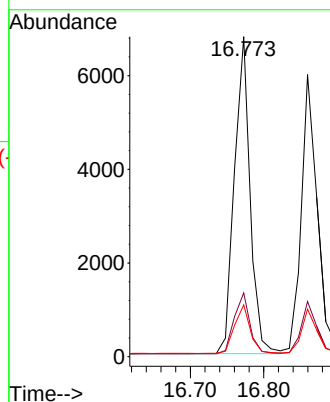
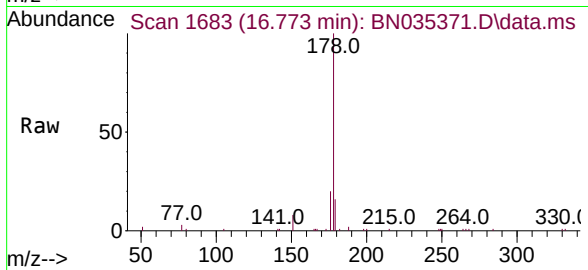




#25  
Phenanthrene  
Concen: 0.383 ng  
RT: 16.773 min Scan# 1683  
Delta R.T. -0.000 min  
Lab File: BN035371.D  
Acq: 28 Nov 2024 06:39

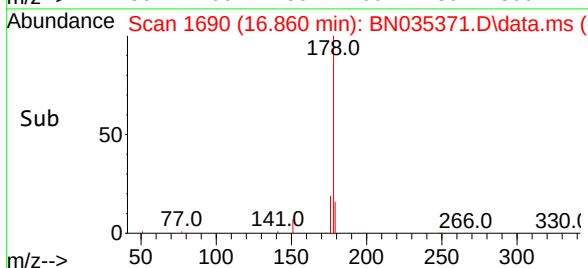
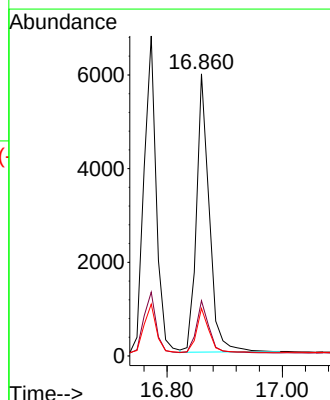
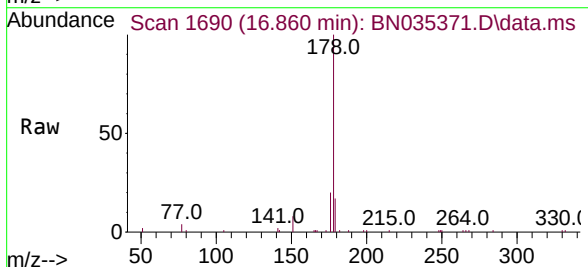
Instrument :  
BNA\_N  
ClientSampleId :  
PB165198BSD

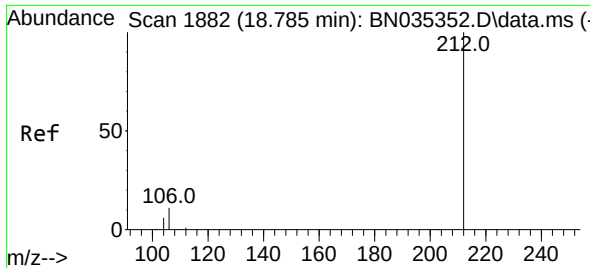
Tgt Ion:178 Resp: 10055  
Ion Ratio Lower Upper  
178 100  
176 19.3 15.4 23.2  
179 15.3 12.3 18.5



#26  
Anthracene  
Concen: 0.386 ng  
RT: 16.860 min Scan# 1690  
Delta R.T. -0.000 min  
Lab File: BN035371.D  
Acq: 28 Nov 2024 06:39

Tgt Ion:178 Resp: 9171  
Ion Ratio Lower Upper  
178 100  
176 18.8 15.0 22.6  
179 15.4 12.6 18.8

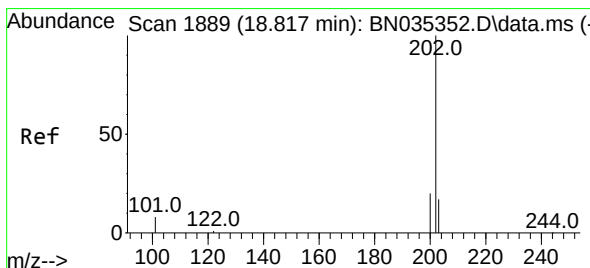
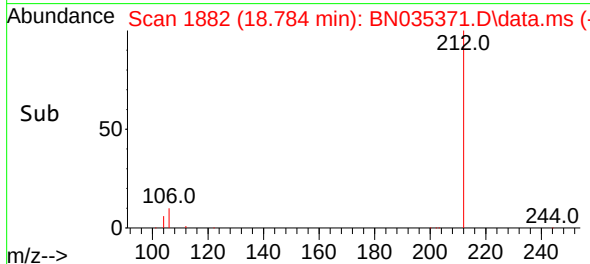
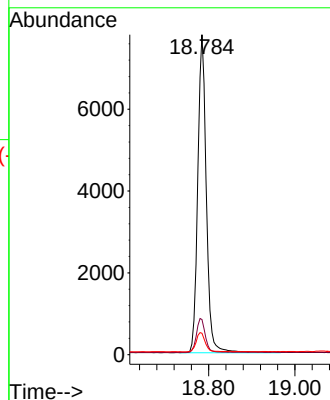
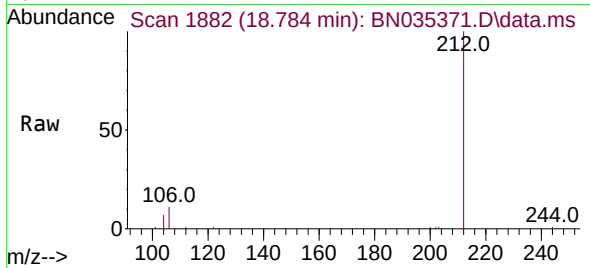




#27  
Fluoranthene-d10  
Concen: 0.395 ng  
RT: 18.784 min Scan# 1882  
Delta R.T. -0.000 min  
Lab File: BN035371.D  
Acq: 28 Nov 2024 06:39

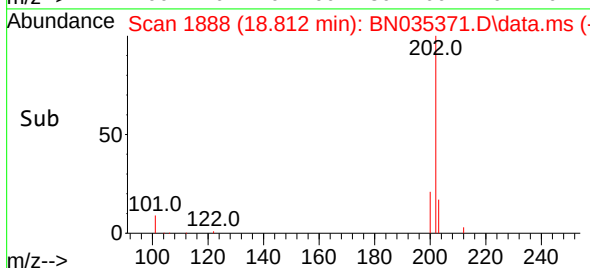
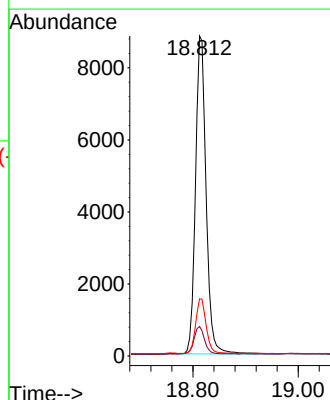
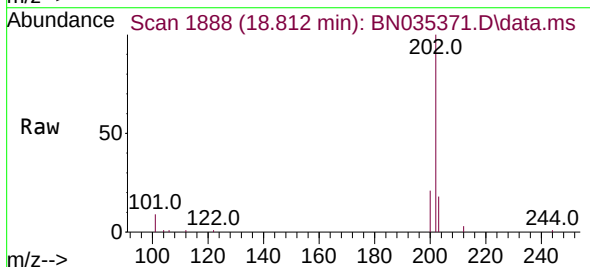
Instrument :  
BNA\_N  
ClientSampleId :  
PB165198BSD

Tgt Ion:212 Resp: 10713  
Ion Ratio Lower Upper  
212 100  
106 10.9 9.2 13.8  
104 6.3 5.3 7.9

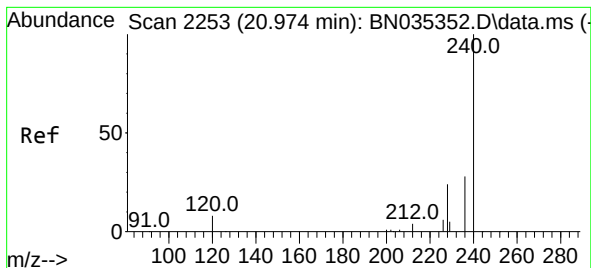


#28  
Fluoranthene  
Concen: 0.347 ng  
RT: 18.812 min Scan# 1888  
Delta R.T. -0.005 min  
Lab File: BN035371.D  
Acq: 28 Nov 2024 06:39

Tgt Ion:202 Resp: 12304  
Ion Ratio Lower Upper  
202 100  
101 8.9 7.4 11.0  
203 17.0 13.7 20.5







#29

Chrysene-d12

Concen: 0.400 ng

RT: 20.974 min Scan# 21

Delta R.T. -0.000 min

Lab File: BN035371.D

Acq: 28 Nov 2024 06:39

Instrument :

BNA\_N

ClientSampleId :

PB165198BSD

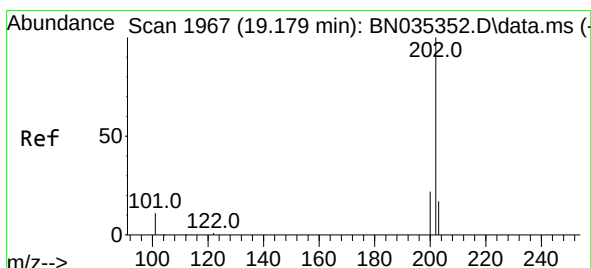
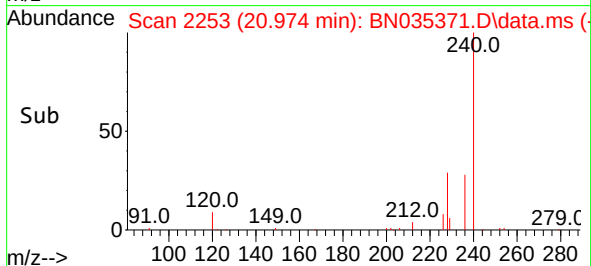
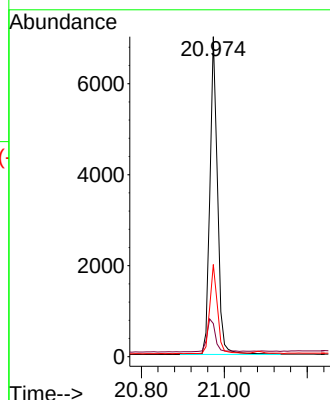
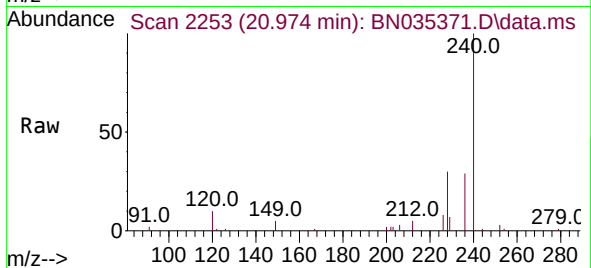
Tgt Ion:240 Resp: 8948

Ion Ratio Lower Upper

240 100

120 10.4 7.9 11.9

236 28.8 22.9 34.3



#30

Pyrene

Concen: 0.384 ng

RT: 19.179 min Scan# 1967

Delta R.T. -0.000 min

Lab File: BN035371.D

Acq: 28 Nov 2024 06:39

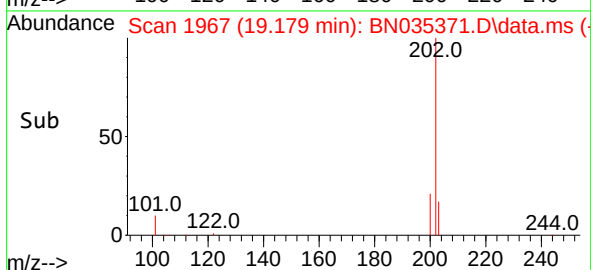
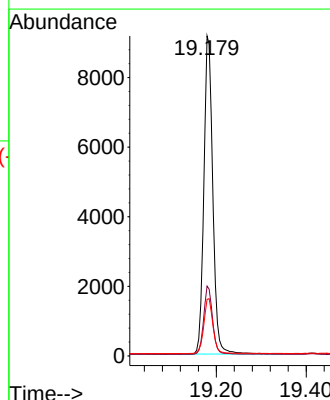
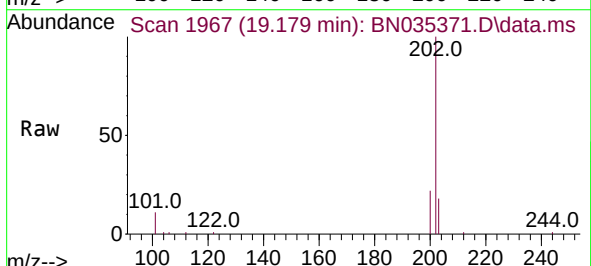
Tgt Ion:202 Resp: 12695

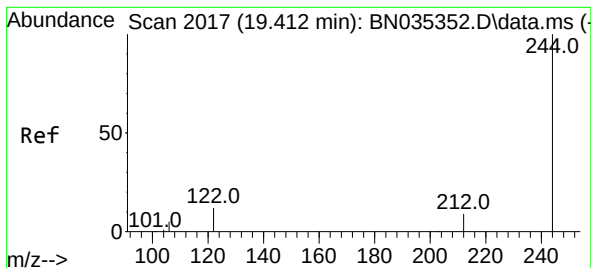
Ion Ratio Lower Upper

202 100

200 21.3 17.0 25.4

203 17.6 14.3 21.5





#31

Terphenyl-d14

Concen: 0.451 ng

RT: 19.412 min Scan# 2017

Delta R.T. -0.000 min

Lab File: BN035371.D

Acq: 28 Nov 2024 06:39

Instrument :

BNA\_N

ClientSampleId :

PB165198BSD

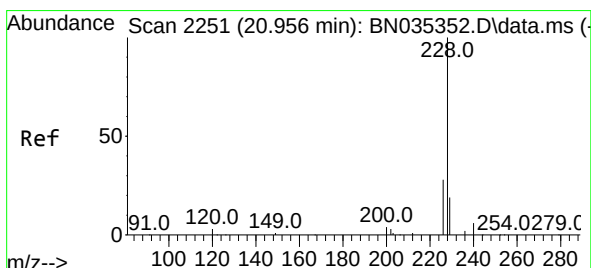
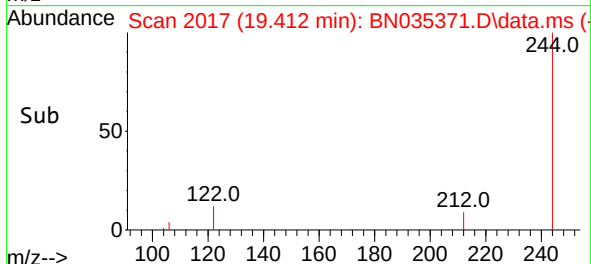
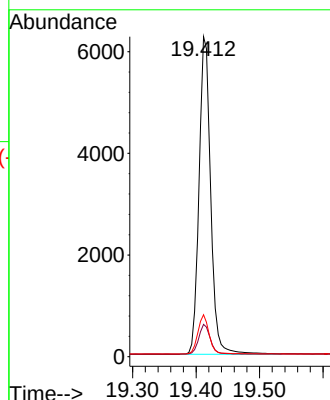
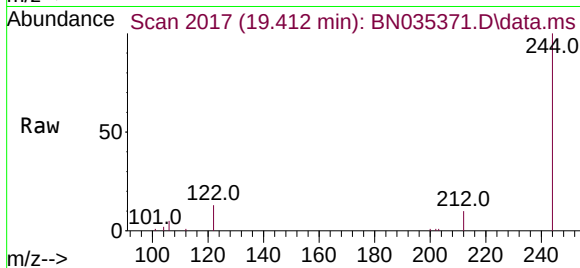
Tgt Ion:244 Resp: 7957

Ion Ratio Lower Upper

244 100

212 10.1 8.1 12.1

122 13.1 10.3 15.5



#32

Benzo(a)anthracene

Concen: 0.371 ng

RT: 20.956 min Scan# 2251

Delta R.T. -0.000 min

Lab File: BN035371.D

Acq: 28 Nov 2024 06:39

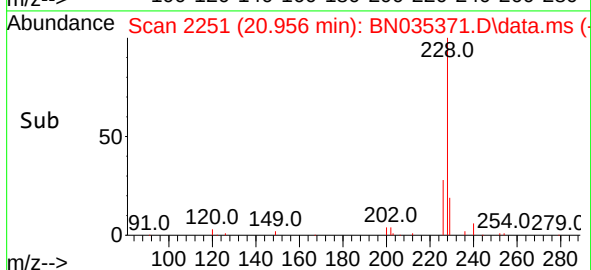
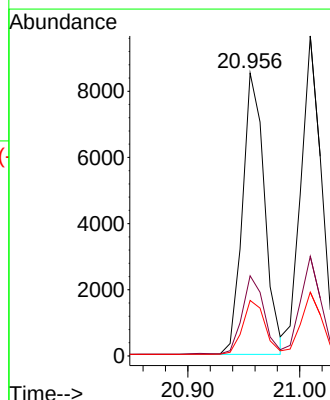
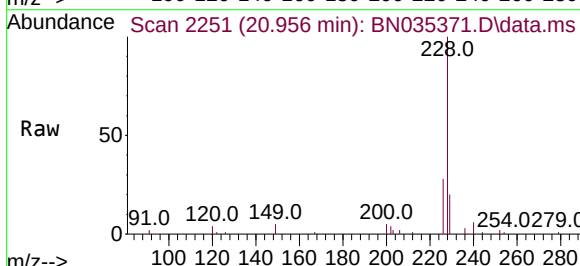
Tgt Ion:228 Resp: 11626

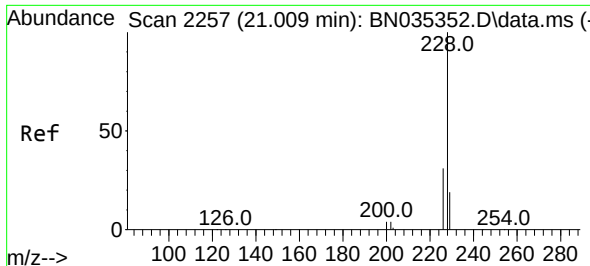
Ion Ratio Lower Upper

228 100

226 28.4 22.5 33.7

229 19.6 15.8 23.8





#33

Chrysene

Concen: 0.393 ng

RT: 21.009 min Scan# 21

Delta R.T. -0.000 min

Lab File: BN035371.D

Acq: 28 Nov 2024 06:39

Instrument :

BNA\_N

ClientSampleId :

PB165198BSD

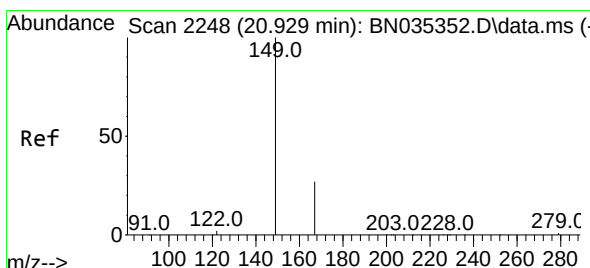
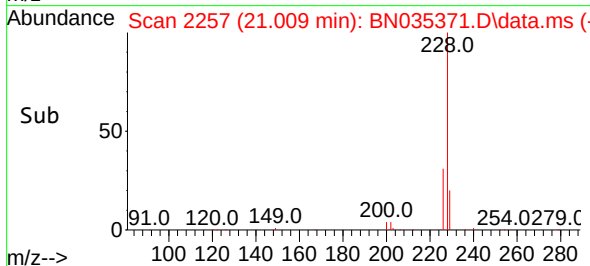
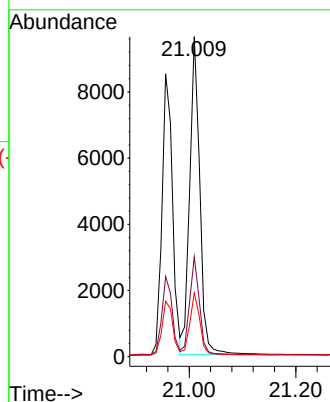
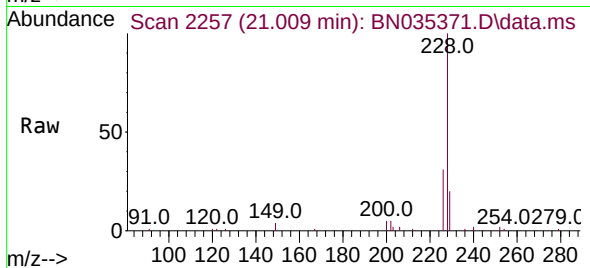
Tgt Ion:228 Resp: 12682

Ion Ratio Lower Upper

228 100

226 31.2 24.6 37.0

229 20.0 15.9 23.9



#34

Bis(2-ethylhexyl)phthalate

Concen: 0.348 ng

RT: 20.929 min Scan# 2248

Delta R.T. -0.000 min

Lab File: BN035371.D

Acq: 28 Nov 2024 06:39

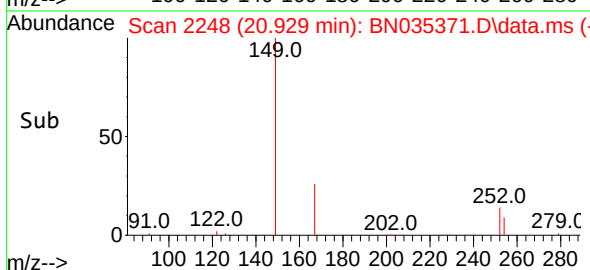
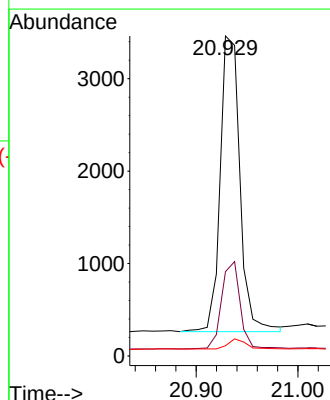
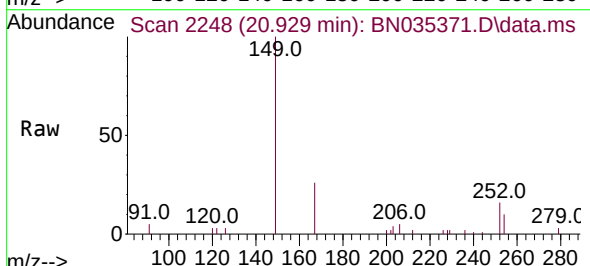
Tgt Ion:149 Resp: 4303

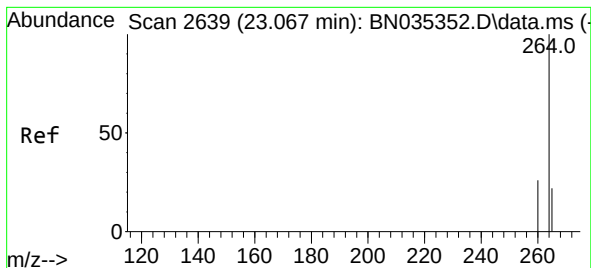
Ion Ratio Lower Upper

149 100

167 27.9 22.2 33.4

279 3.3 2.7 4.1





#35

Perylene-d12

Concen: 0.400 ng

RT: 23.070 min Scan# 2640

Delta R.T. 0.003 min

Lab File: BN035371.D

Acq: 28 Nov 2024 06:39

Instrument :

BNA\_N

ClientSampleId :

PB165198BSD

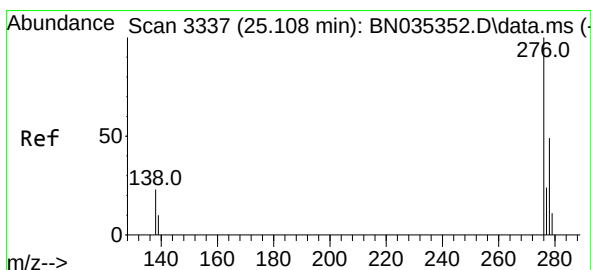
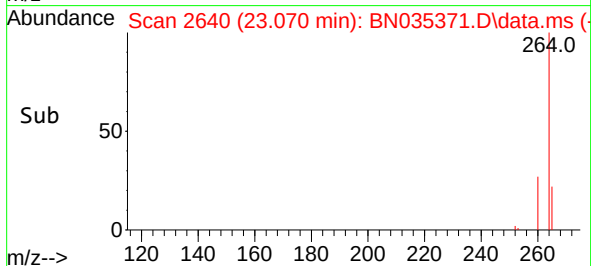
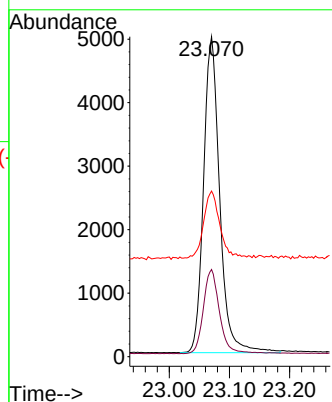
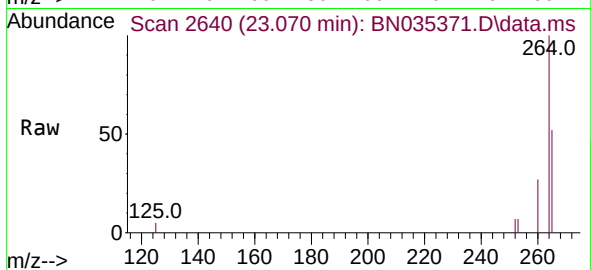
Tgt Ion:264 Resp: 9280

Ion Ratio Lower Upper

264 100

260 27.3 21.4 32.2

265 51.7 40.2 60.4



#36

Indeno(1,2,3-cd)pyrene

Concen: 0.389 ng

RT: 25.108 min Scan# 3337

Delta R.T. -0.000 min

Lab File: BN035371.D

Acq: 28 Nov 2024 06:39

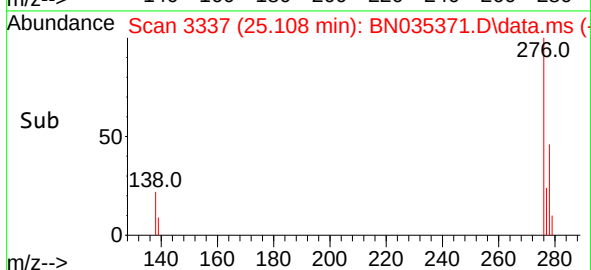
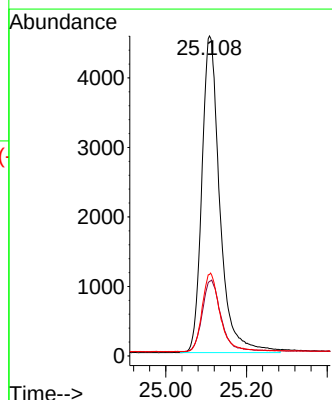
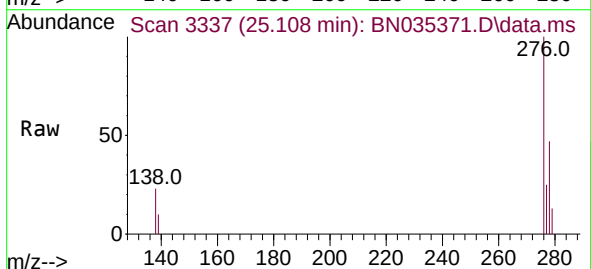
Tgt Ion:276 Resp: 14123

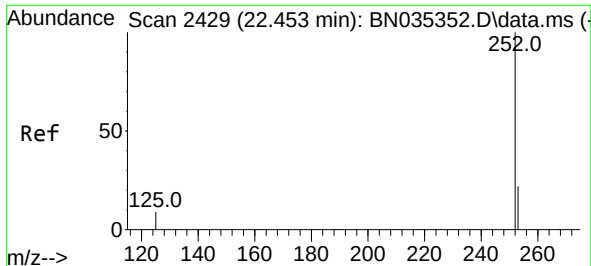
Ion Ratio Lower Upper

276 100

138 23.3 19.4 29.0

277 24.7 19.8 29.6

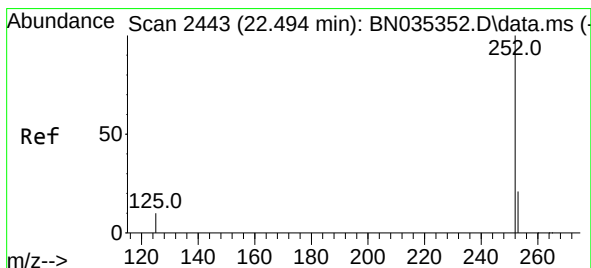
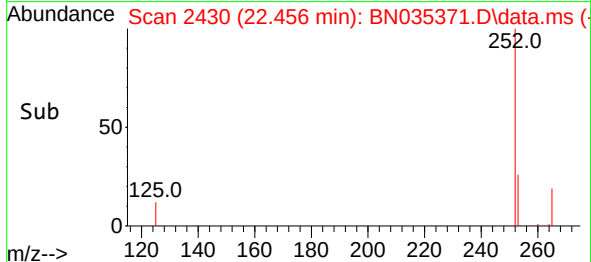
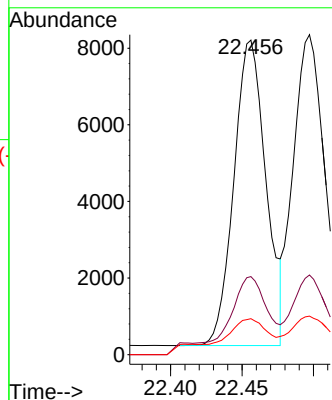
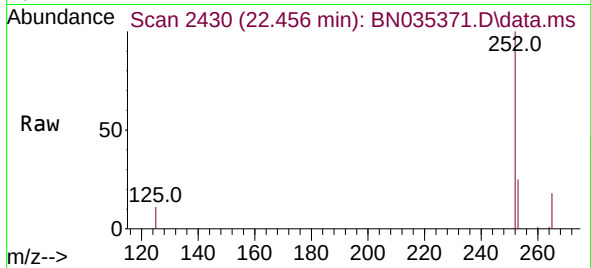




#37  
Benzo(b)fluoranthene  
Concen: 0.367 ng  
RT: 22.456 min Scan# 2429  
Delta R.T. 0.003 min  
Lab File: BN035371.D  
Acq: 28 Nov 2024 06:39

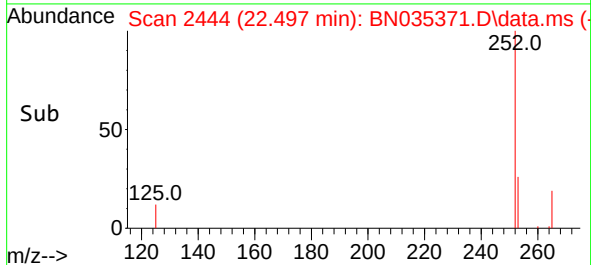
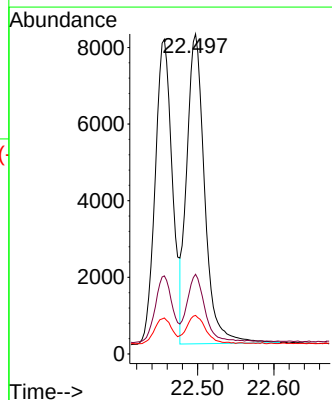
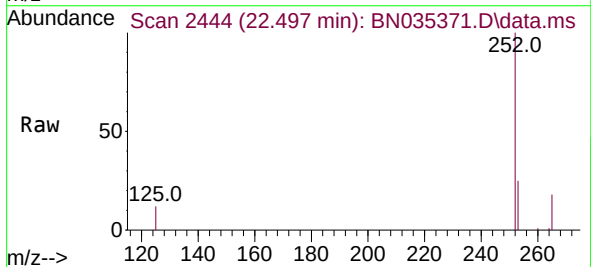
Instrument :  
BNA\_N  
ClientSampleId :  
PB165198BSD

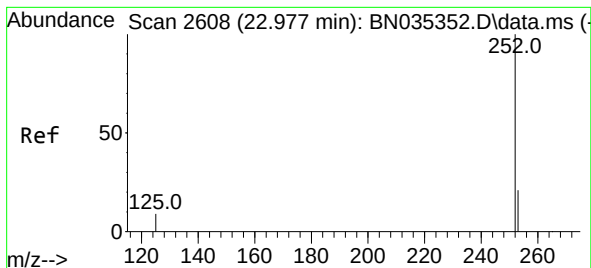
Tgt Ion:252 Resp: 12457  
Ion Ratio Lower Upper  
252 100  
253 24.8 19.6 29.4  
125 11.4 9.6 14.4



#38  
Benzo(k)fluoranthene  
Concen: 0.394 ng  
RT: 22.497 min Scan# 2444  
Delta R.T. 0.003 min  
Lab File: BN035371.D  
Acq: 28 Nov 2024 06:39

Tgt Ion:252 Resp: 13182  
Ion Ratio Lower Upper  
252 100  
253 24.9 19.5 29.3  
125 12.1 10.2 15.4





#39

Benzo(a)pyrene

Concen: 0.403 ng

RT: 22.980 min Scan# 2609

Delta R.T. 0.003 min

Lab File: BN035371.D

Acq: 28 Nov 2024 06:39

Instrument :

BNA\_N

ClientSampleId :

PB165198BSD

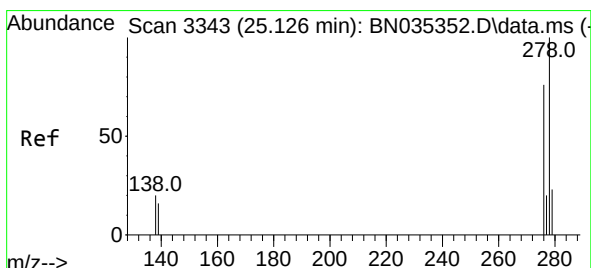
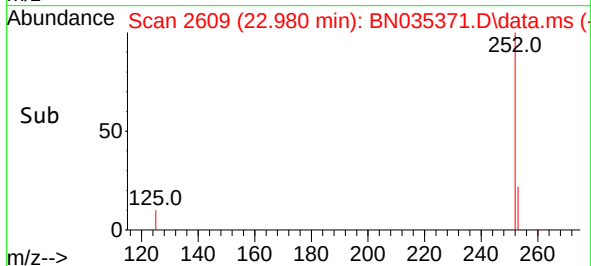
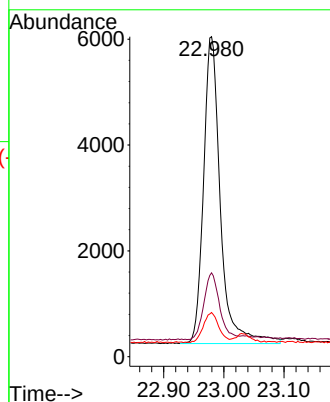
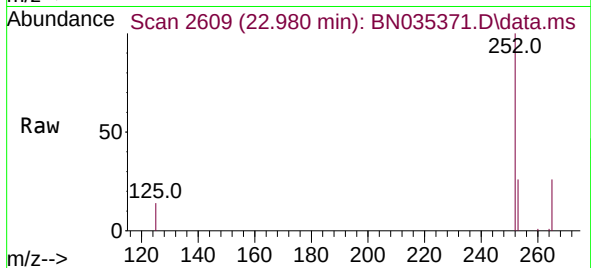
Tgt Ion:252 Resp: 11277

Ion Ratio Lower Upper

252 100

253 26.2 20.2 30.4

125 13.8 10.9 16.3



#40

Dibenzo(a,h)anthracene

Concen: 0.384 ng

RT: 25.128 min Scan# 3344

Delta R.T. 0.003 min

Lab File: BN035371.D

Acq: 28 Nov 2024 06:39

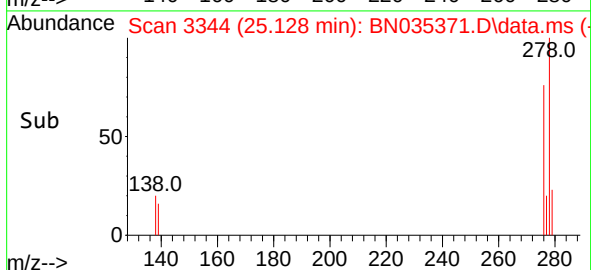
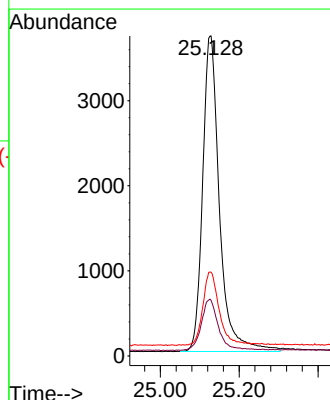
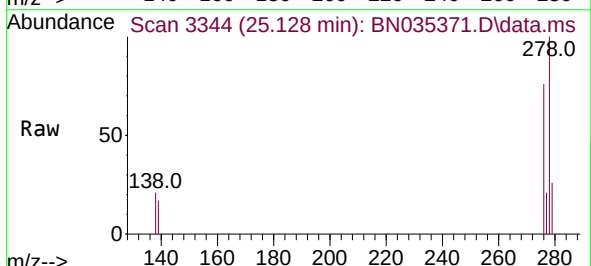
Tgt Ion:278 Resp: 10990

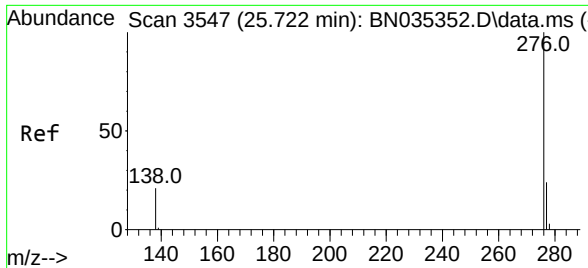
Ion Ratio Lower Upper

278 100

139 17.4 14.2 21.4

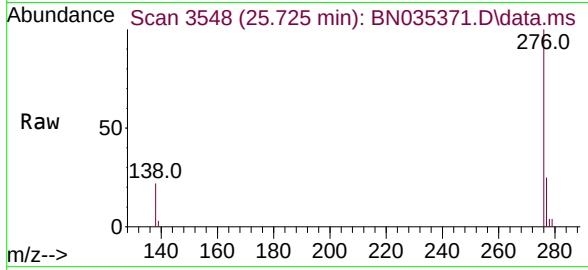
279 26.1 20.5 30.7



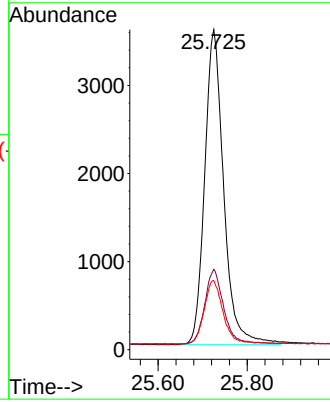
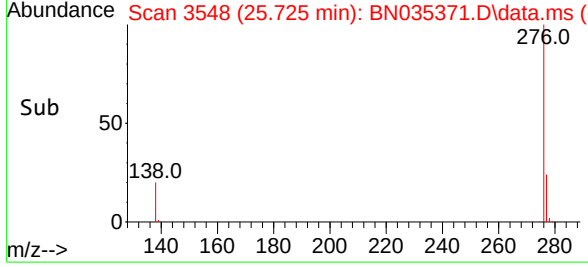


#41  
Benzo(g,h,i)perylene  
Concen: 0.355 ng  
RT: 25.725 min Scan# 31  
Delta R.T. 0.003 min  
Lab File: BN035371.D  
Acq: 28 Nov 2024 06:39

Instrument :  
BNA\_N  
ClientSampleId :  
PB165198BSD



|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 276   | Resp: | 10607 |
| Ion      | Ratio | Lower | Upper |
| 276      | 100   |       |       |
| 277      | 25.1  | 19.9  | 29.9  |
| 138      | 21.6  | 17.8  | 26.8  |



Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN112724\  
 Data File : BN035374.D  
 Acq On : 28 Nov 2024 08:26  
 Operator : RC/JU  
 Sample : P4959-01 5X  
 Misc :  
 ALS Vial : 28 Sample Multiplier: 1

Instrument :  
 BNA\_N  
 ClientSampleId :  
 RW5-SP100-20241121

Quant Time: Dec 02 08:42:43 2024  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\8270-SIM-BN112724.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Wed Nov 27 23:03:24 2024  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc  | Units | Dev(Min) |
|-------------------------------|--------|------|----------|-------|-------|----------|
| Internal Standards            |        |      |          |       |       |          |
| 1) 1,4-Dichlorobenzene-d4     | 7.308  | 152  | 1752     | 0.400 | ng    | 0.00     |
| 7) Naphthalene-d8             | 10.052 | 136  | 4244     | 0.400 | ng    | 0.00     |
| 13) Acenaphthene-d10          | 13.967 | 164  | 3218     | 0.400 | ng    | 0.00     |
| 19) Phenanthrene-d10          | 16.736 | 188  | 8380     | 0.400 | ng    | # 0.00   |
| 29) Chrysene-d12              | 20.974 | 240  | 7890     | 0.400 | ng    | 0.00     |
| 35) Perylene-d12              | 23.067 | 264  | 7953     | 0.400 | ng    | 0.00     |
| System Monitoring Compounds   |        |      |          |       |       |          |
| 4) 2-Fluorophenol             | 4.968  | 112  | 133      | 0.030 | ng    | 0.00     |
| 5) Phenol-d6                  | 6.513  | 99   | 78       | 0.015 | ng    | 0.00     |
| 8) Nitrobenzene-d5            | 8.450  | 82   | 389      | 0.150 | ng    | 0.01     |
| 11) 2-Methylnaphthalene-d10   | 11.666 | 152  | 652      | 0.098 | ng    | 0.01     |
| 14) 2,4,6-Tribromophenol      | 15.485 | 330  | 129      | 0.056 | ng    | 0.01     |
| 15) 2-Fluorobiphenyl          | 12.579 | 172  | 1075     | 0.088 | ng    | 0.00     |
| 27) Fluoranthene-d10          | 18.785 | 212  | 2744     | 0.116 | ng    | 0.00     |
| 31) Terphenyl-d14             | 19.412 | 244  | 2060     | 0.132 | ng    | 0.00     |
| Target Compounds              |        |      |          |       |       |          |
| 2) 1,4-Dioxane                | 2.996  | 88   | 3433     | 2.050 | ng    | 96       |
| 34) Bis(2-ethylhexyl)phtha... | 20.929 | 149  | 312      | 0.029 | ng    | # 93     |

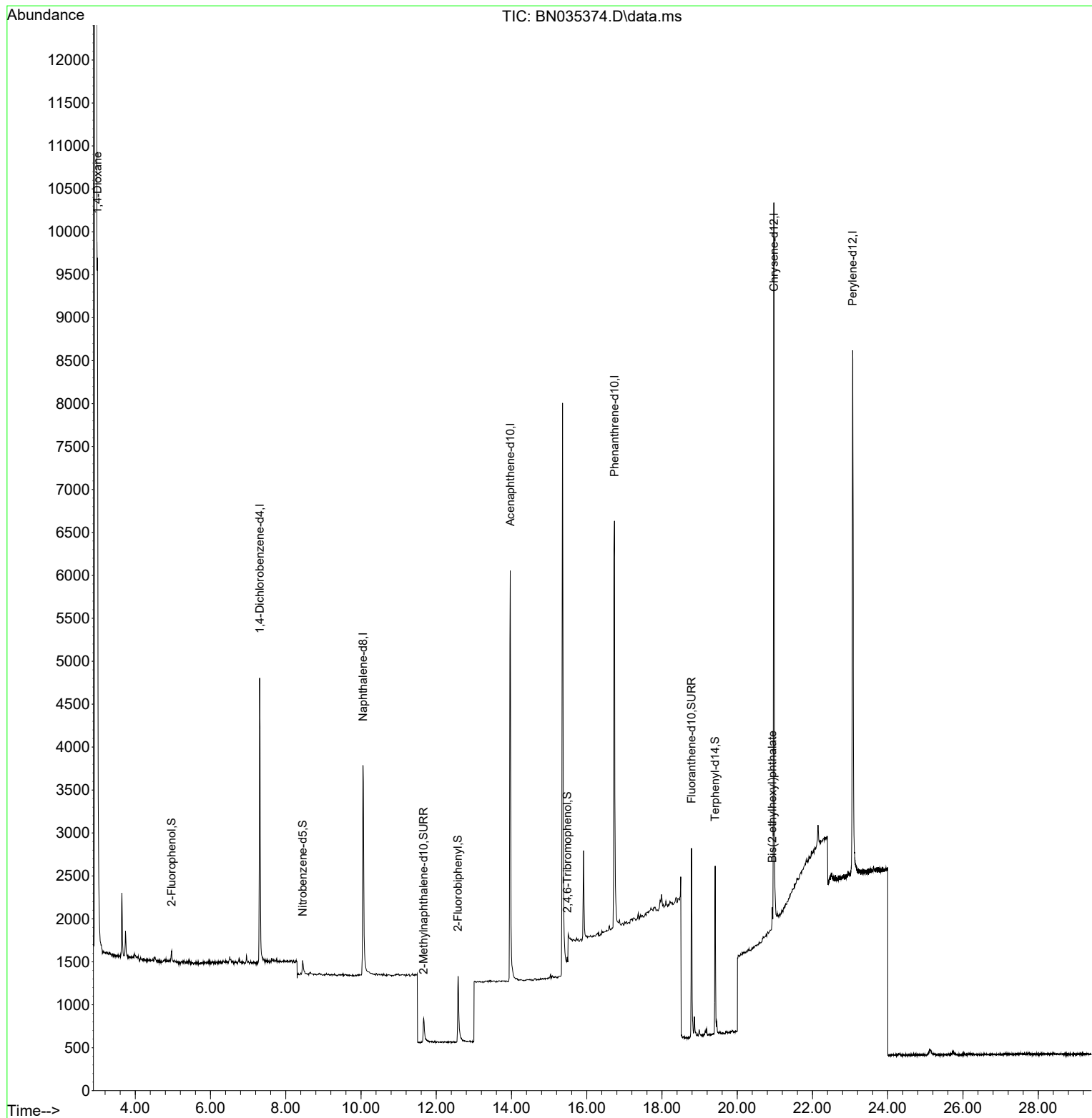
(#) = qualifier out of range (m) = manual integration (+) = signals summed

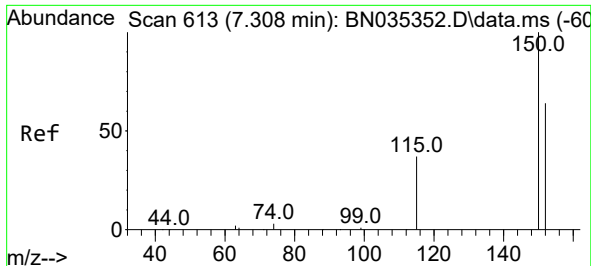


Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN112724\  
Data File : BN035374.D  
Acq On : 28 Nov 2024 08:26  
Operator : RC/JU  
Sample : P4959-01 5X  
Misc :  
ALS Vial : 28 Sample Multiplier: 1

Instrument :  
BNA\_N  
ClientSampleId :  
RW5-SP100-20241121

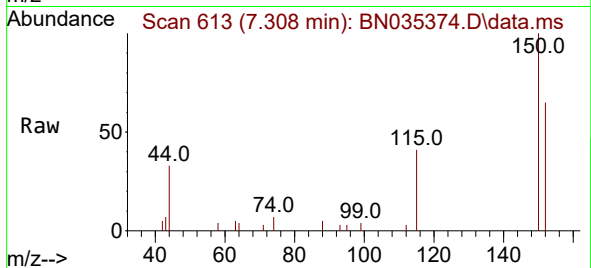
Quant Time: Dec 02 08:42:43 2024  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\8270-SIM-BN112724.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Wed Nov 27 23:03:24 2024  
Response via : Initial Calibration



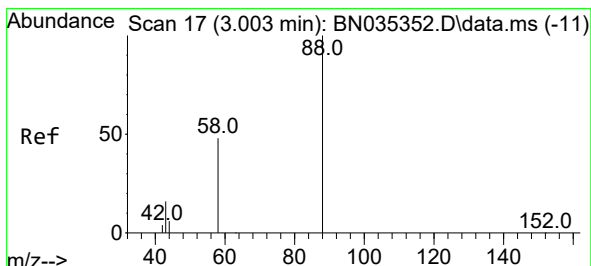
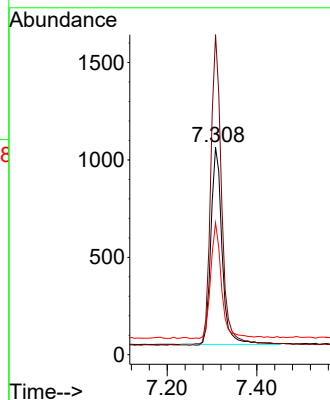
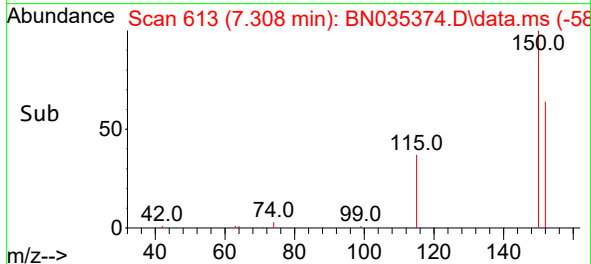


#1  
 1,4-Dichlorobenzene-d4  
 Concen: 0.400 ng  
 RT: 7.308 min Scan# 61  
 Delta R.T. -0.000 min  
 Lab File: BN035374.D  
 Acq: 28 Nov 2024 08:26

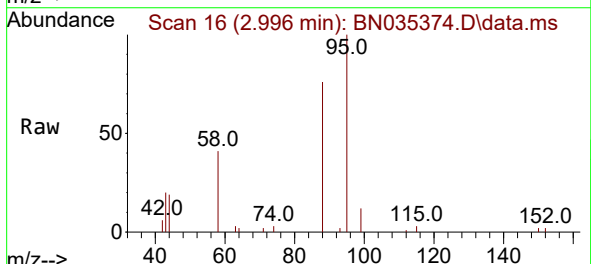
Instrument :  
 BNA\_N  
 ClientSampleId :  
 RW5-SP100-20241121



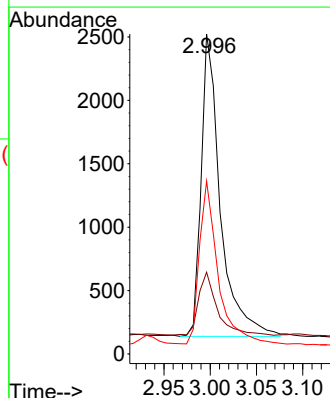
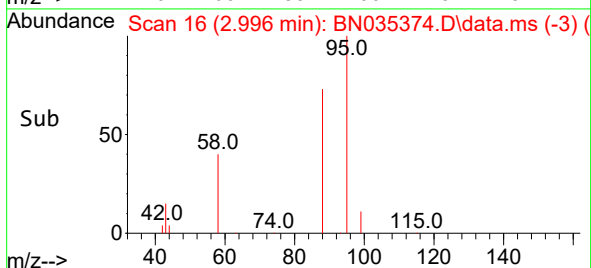
Tgt Ion:152 Resp: 1752  
 Ion Ratio Lower Upper  
 152 100  
 150 154.3 124.0 186.0  
 115 63.6 49.6 74.4

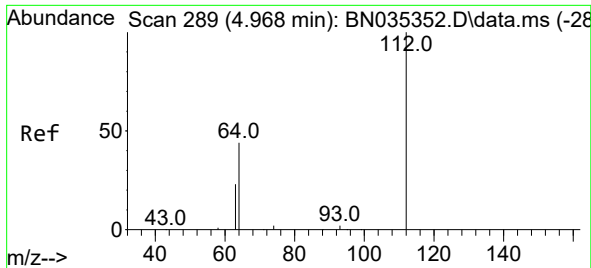


#2  
 1,4-Dioxane  
 Concen: 2.050 ng  
 RT: 2.996 min Scan# 16  
 Delta R.T. -0.007 min  
 Lab File: BN035374.D  
 Acq: 28 Nov 2024 08:26



Tgt Ion: 88 Resp: 3433  
 Ion Ratio Lower Upper  
 88 100  
 43 20.4 17.2 25.8  
 58 52.1 44.5 66.7

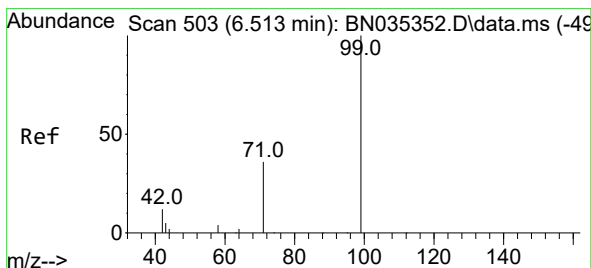
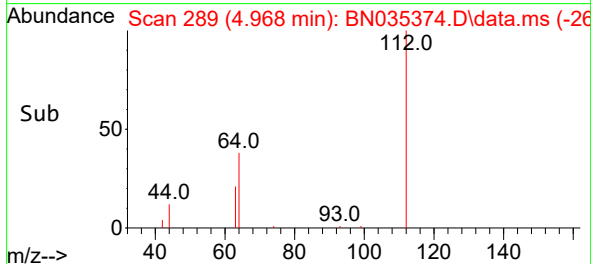
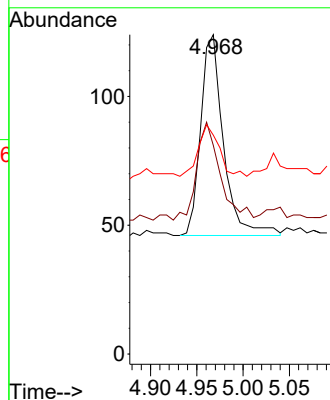
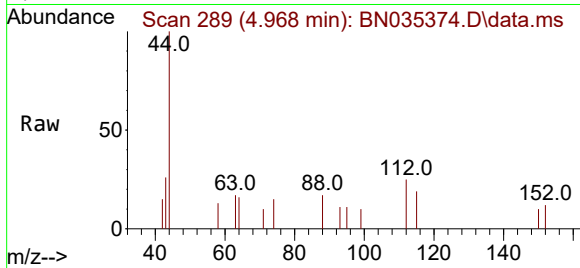




#4  
2-Fluorophenol  
Concen: 0.030 ng  
RT: 4.968 min Scan# 21  
Delta R.T. 0.000 min  
Lab File: BN035374.D  
Acq: 28 Nov 2024 08:26

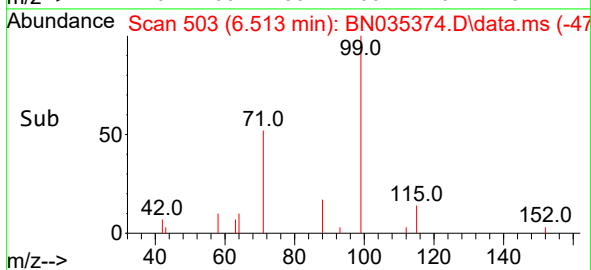
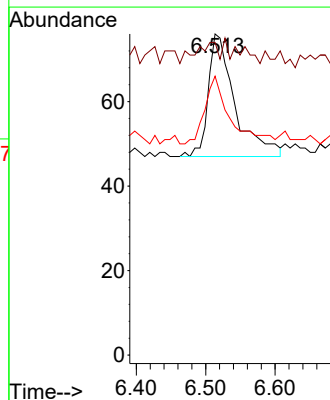
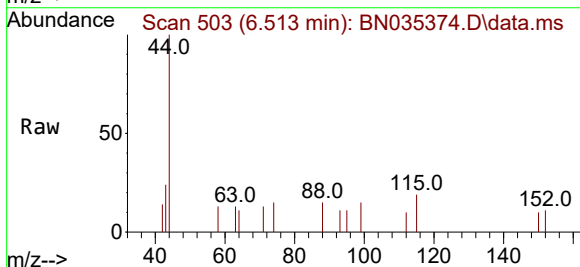
Instrument :  
BNA\_N  
ClientSampleId :  
RW5-SP100-20241121

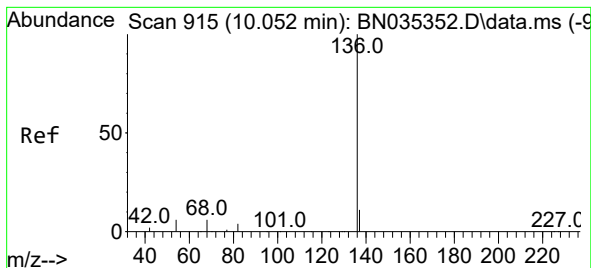
Tgt Ion:112 Resp: 133  
Ion Ratio Lower Upper  
112 100  
64 50.4 39.8 59.8  
63 27.8 21.0 31.6



#5  
Phenol-d6  
Concen: 0.015 ng  
RT: 6.513 min Scan# 503  
Delta R.T. 0.000 min  
Lab File: BN035374.D  
Acq: 28 Nov 2024 08:26

Tgt Ion: 99 Resp: 78  
Ion Ratio Lower Upper  
99 100  
42 14.1 11.4 17.2  
71 56.4 29.3 43.9#





#7

Naphthalene-d8

Concen: 0.400 ng

RT: 10.052 min Scan# 915

Delta R.T. 0.000 min

Lab File: BN035374.D

Acq: 28 Nov 2024 08:26

Instrument :

BNA\_N

ClientSampleId :

RW5-SP100-20241121

Tgt Ion:136 Resp: 4244

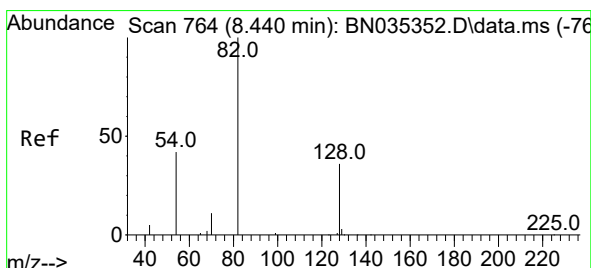
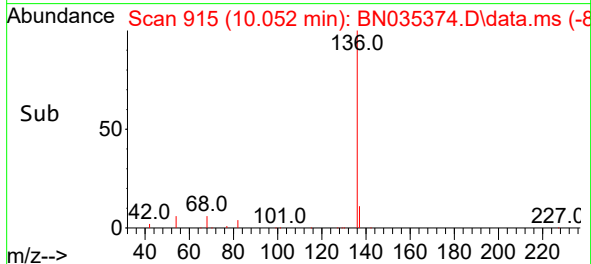
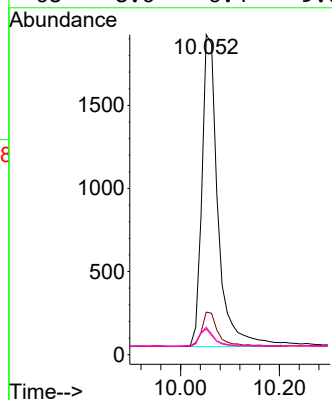
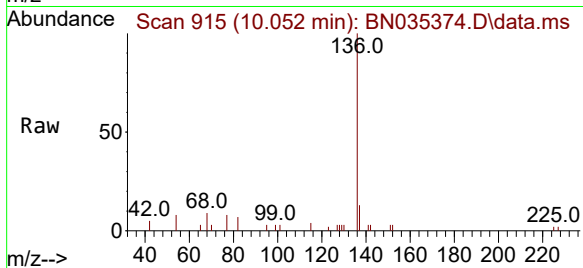
Ion Ratio Lower Upper

136 100

137 13.3 10.2 15.2

54 8.1 6.1 9.1

68 8.6 6.4 9.6



#8

Nitrobenzene-d5

Concen: 0.150 ng

RT: 8.450 min Scan# 765

Delta R.T. 0.011 min

Lab File: BN035374.D

Acq: 28 Nov 2024 08:26

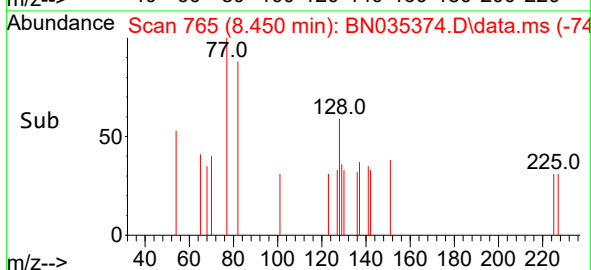
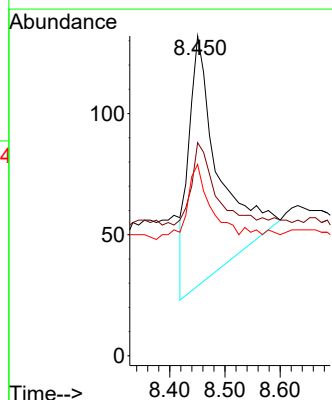
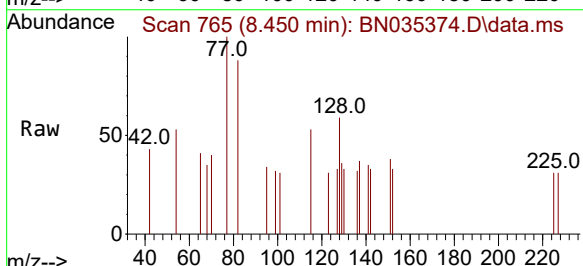
Tgt Ion: 82 Resp: 389

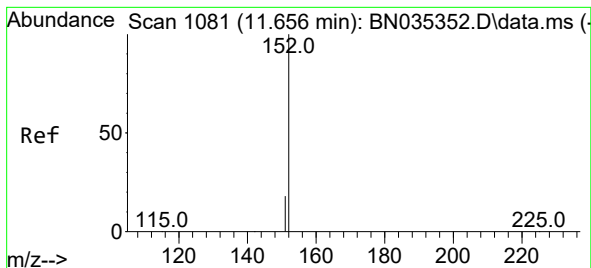
Ion Ratio Lower Upper

82 100

128 66.7 33.4 50.0#

54 59.8 36.7 55.1#

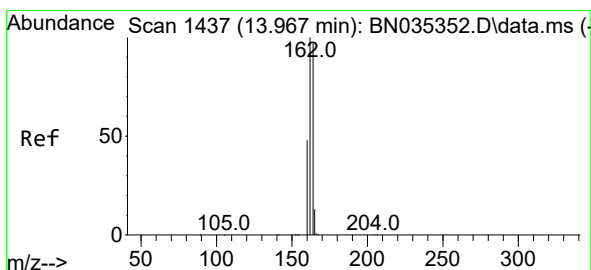
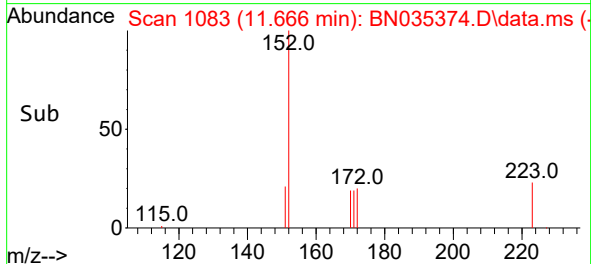
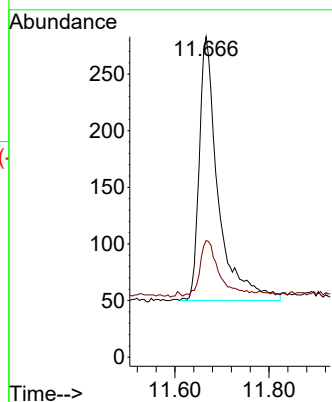
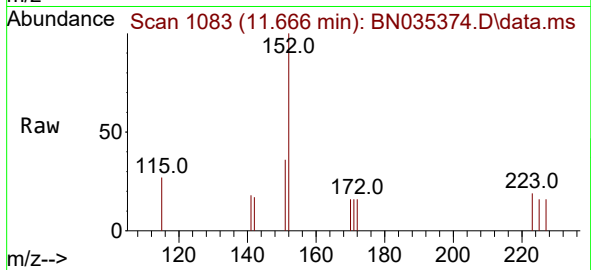




#11  
2-Methylnaphthalene-d10  
Concen: 0.098 ng  
RT: 11.666 min Scan# 1083  
Delta R.T. 0.010 min  
Lab File: BN035374.D  
Acq: 28 Nov 2024 08:26

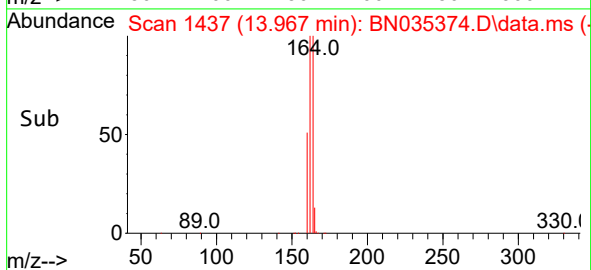
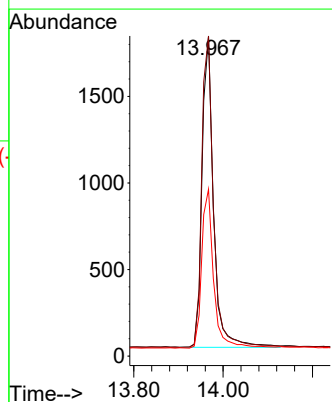
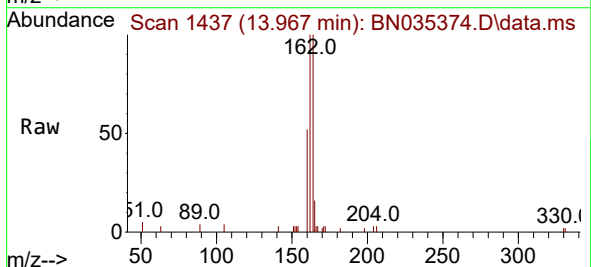
Instrument :  
BNA\_N  
ClientSampleId :  
RW5-SP100-20241121

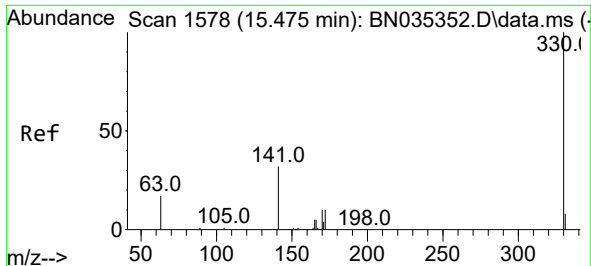
Tgt Ion:152 Resp: 652  
Ion Ratio Lower Upper  
152 100  
151 21.3 16.6 25.0



#13  
Acenaphthene-d10  
Concen: 0.400 ng  
RT: 13.967 min Scan# 1437  
Delta R.T. 0.000 min  
Lab File: BN035374.D  
Acq: 28 Nov 2024 08:26

Tgt Ion:164 Resp: 3218  
Ion Ratio Lower Upper  
164 100  
162 100.1 82.2 123.2  
160 52.2 40.1 60.1

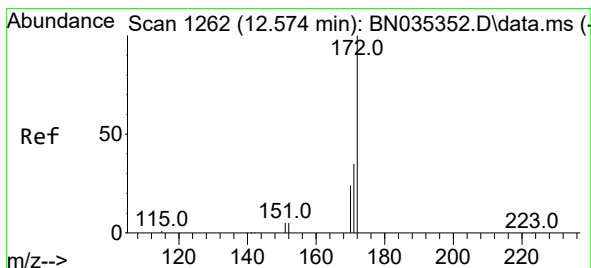
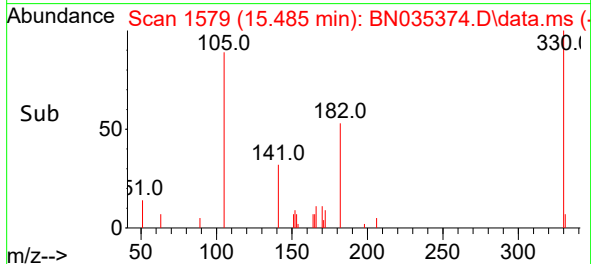
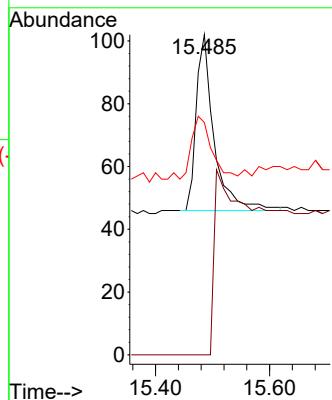
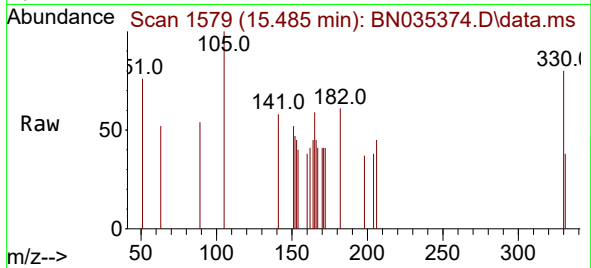




#14  
2,4,6-Tribromophenol  
Concen: 0.056 ng  
RT: 15.485 min Scan# 11  
Delta R.T. 0.011 min  
Lab File: BN035374.D  
Acq: 28 Nov 2024 08:26

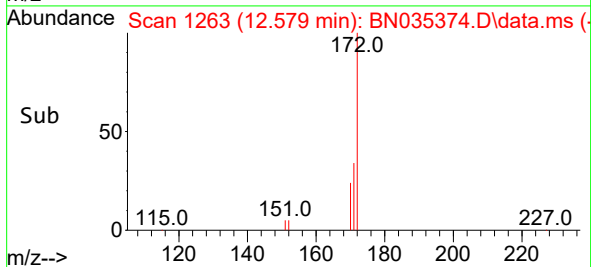
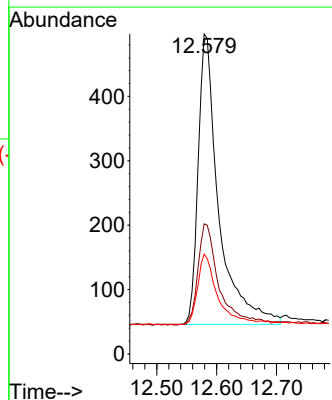
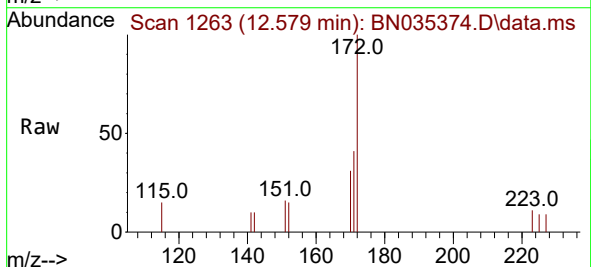
Instrument :  
BNA\_N  
ClientSampleId :  
RW5-SP100-20241121

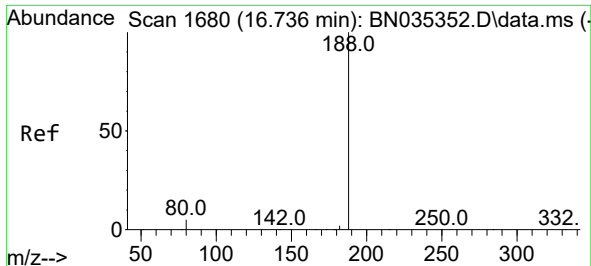
Tgt Ion:330 Resp: 129  
Ion Ratio Lower Upper  
330 100  
332 0.0 0.0 0.0  
141 39.5 26.6 40.0



#15  
2-Fluorobiphenyl  
Concen: 0.088 ng  
RT: 12.579 min Scan# 1263  
Delta R.T. 0.005 min  
Lab File: BN035374.D  
Acq: 28 Nov 2024 08:26

Tgt Ion:172 Resp: 1075  
Ion Ratio Lower Upper  
172 100  
171 40.6 29.0 43.4  
170 31.2 19.8 29.8#

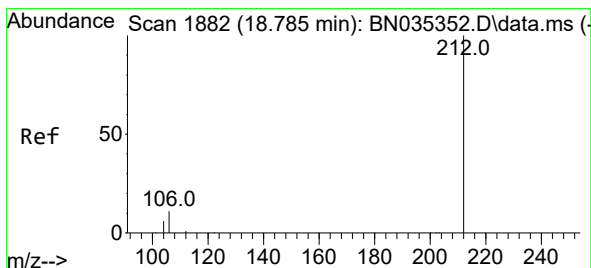
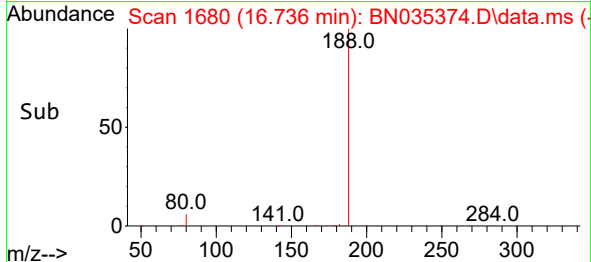
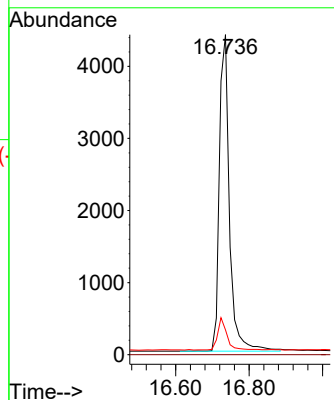
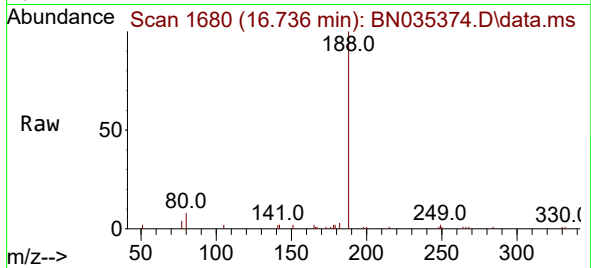




#19  
Phenanthrene-d10  
Concen: 0.400 ng  
RT: 16.736 min Scan# 1680  
Delta R.T. 0.000 min  
Lab File: BN035374.D  
Acq: 28 Nov 2024 08:26

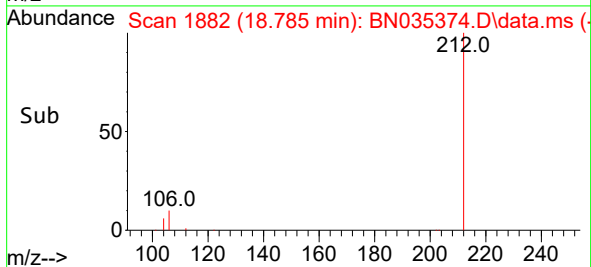
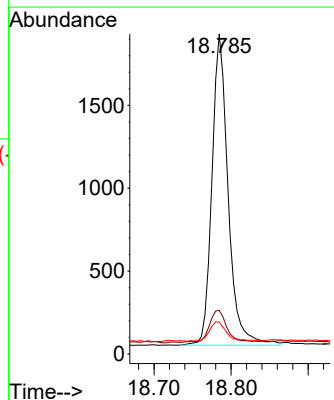
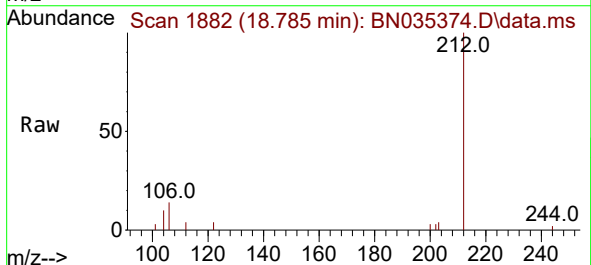
Instrument :  
BNA\_N  
ClientSampleId :  
RW5-SP100-20241121

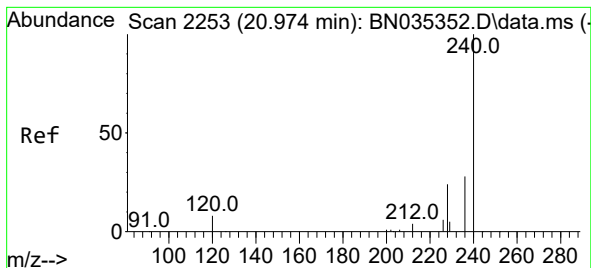
Tgt Ion:188 Resp: 8380  
Ion Ratio Lower Upper  
188 100  
94 0.0 0.0 0.0  
80 7.7 4.6 6.8#



#27  
Fluoranthene-d10  
Concen: 0.116 ng  
RT: 18.785 min Scan# 1882  
Delta R.T. 0.000 min  
Lab File: BN035374.D  
Acq: 28 Nov 2024 08:26

Tgt Ion:212 Resp: 2744  
Ion Ratio Lower Upper  
212 100  
106 11.4 9.2 13.8  
104 6.7 5.3 7.9





#29

Chrysene-d12

Concen: 0.400 ng

RT: 20.974 min Scan# 21

Delta R.T. 0.000 min

Lab File: BN035374.D

Acq: 28 Nov 2024 08:26

Instrument :

BNA\_N

ClientSampleId :

RW5-SP100-20241121

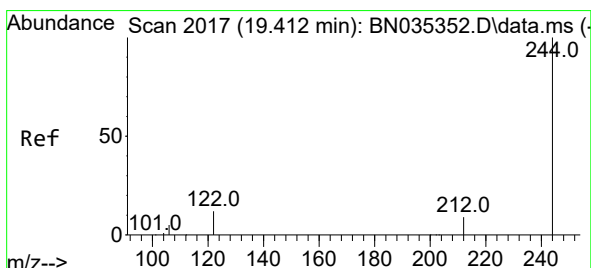
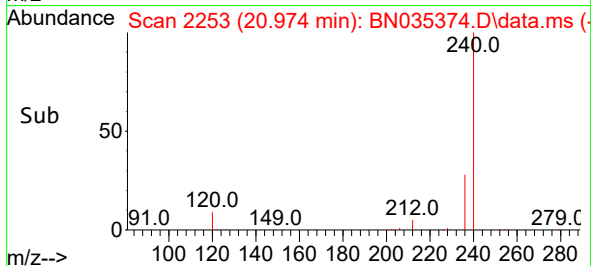
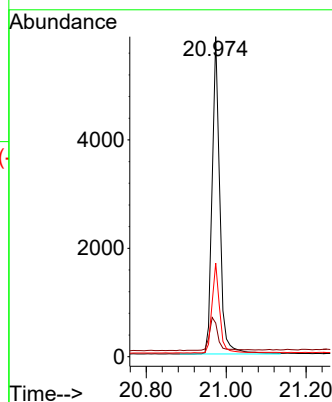
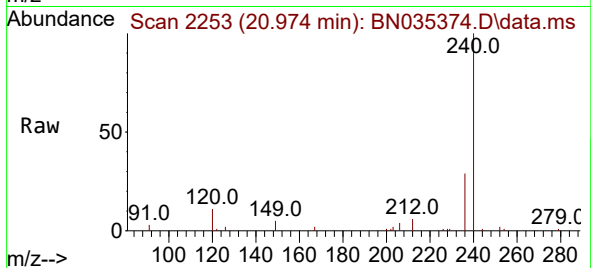
Tgt Ion:240 Resp: 7890

Ion Ratio Lower Upper

240 100

120 10.5 7.9 11.9

236 29.2 22.9 34.3



#31

Terphenyl-d14

Concen: 0.132 ng

RT: 19.412 min Scan# 2017

Delta R.T. 0.000 min

Lab File: BN035374.D

Acq: 28 Nov 2024 08:26

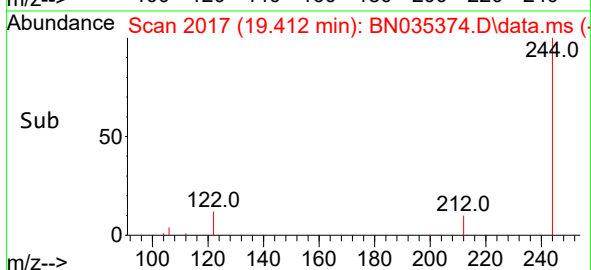
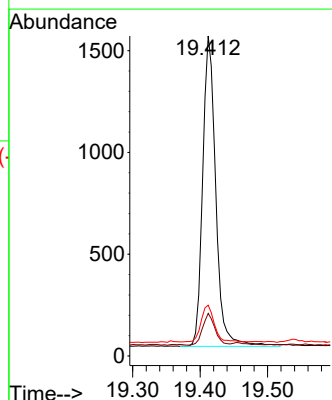
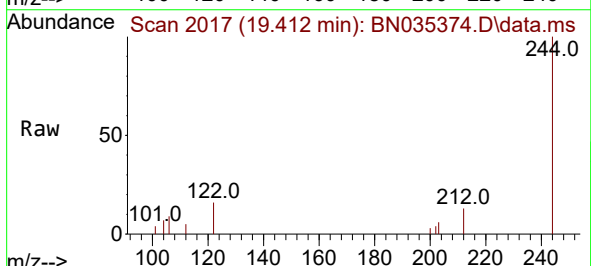
Tgt Ion:244 Resp: 2060

Ion Ratio Lower Upper

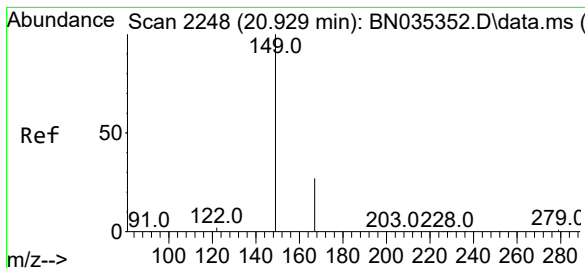
244 100

212 13.3 8.1 12.1#

122 15.8 10.3 15.5#



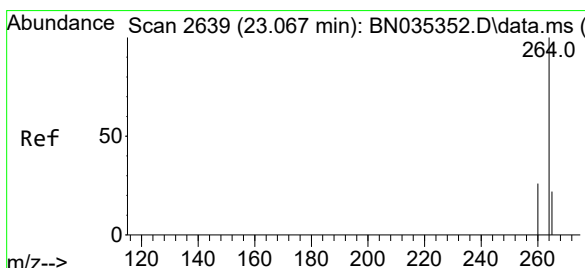
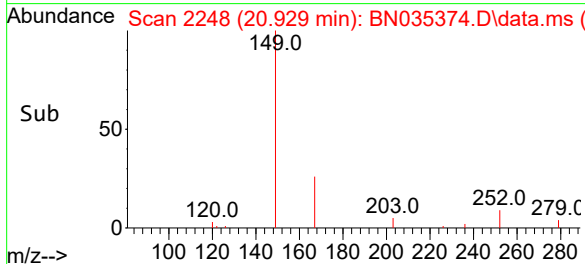
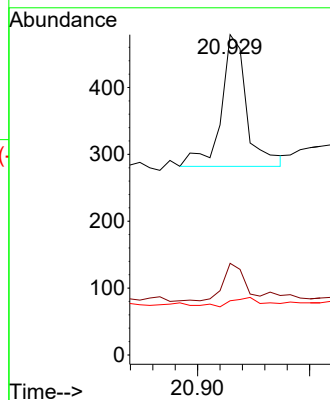
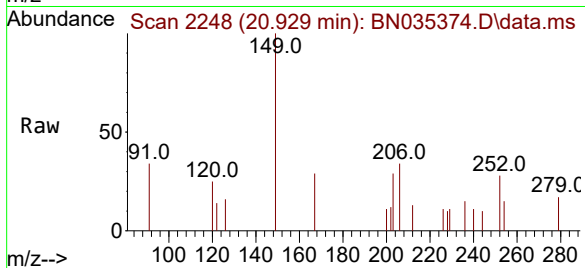




#34  
Bis(2-ethylhexyl)phthalate  
Concen: 0.029 ng  
RT: 20.929 min Scan# 211  
Delta R.T. 0.000 min  
Lab File: BN035374.D  
Acq: 28 Nov 2024 08:26

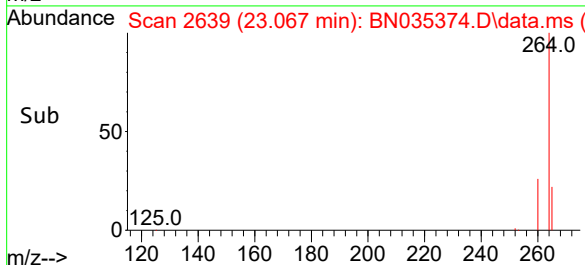
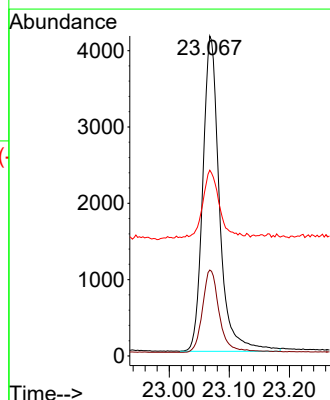
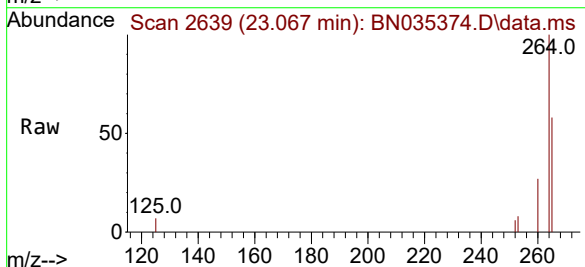
Instrument :  
BNA\_N  
ClientSampleId :  
RW5-SP100-20241121

Tgt Ion:149 Resp: 312  
Ion Ratio Lower Upper  
149 100  
167 24.0 22.2 33.4  
279 6.4 2.7 4.1#



#35  
Perylene-d12  
Concen: 0.400 ng  
RT: 23.067 min Scan# 2639  
Delta R.T. 0.000 min  
Lab File: BN035374.D  
Acq: 28 Nov 2024 08:26

Tgt Ion:264 Resp: 7953  
Ion Ratio Lower Upper  
264 100  
260 26.9 21.4 32.2  
265 58.1 40.2 60.4



Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN112724\  
 Data File : BN035375.D  
 Acq On : 28 Nov 2024 09:02  
 Operator : RC/JU  
 Sample : SSTDCCC0.4  
 Misc :  
 ALS Vial : 29 Sample Multiplier: 1

Instrument :  
 BNA\_N  
 ClientSampleId :  
 SSTDCCC0.4EC

Quant Time: Nov 29 00:19:36 2024  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\8270-SIM-BN112724.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Wed Nov 27 23:03:24 2024  
 Response via : Initial Calibration

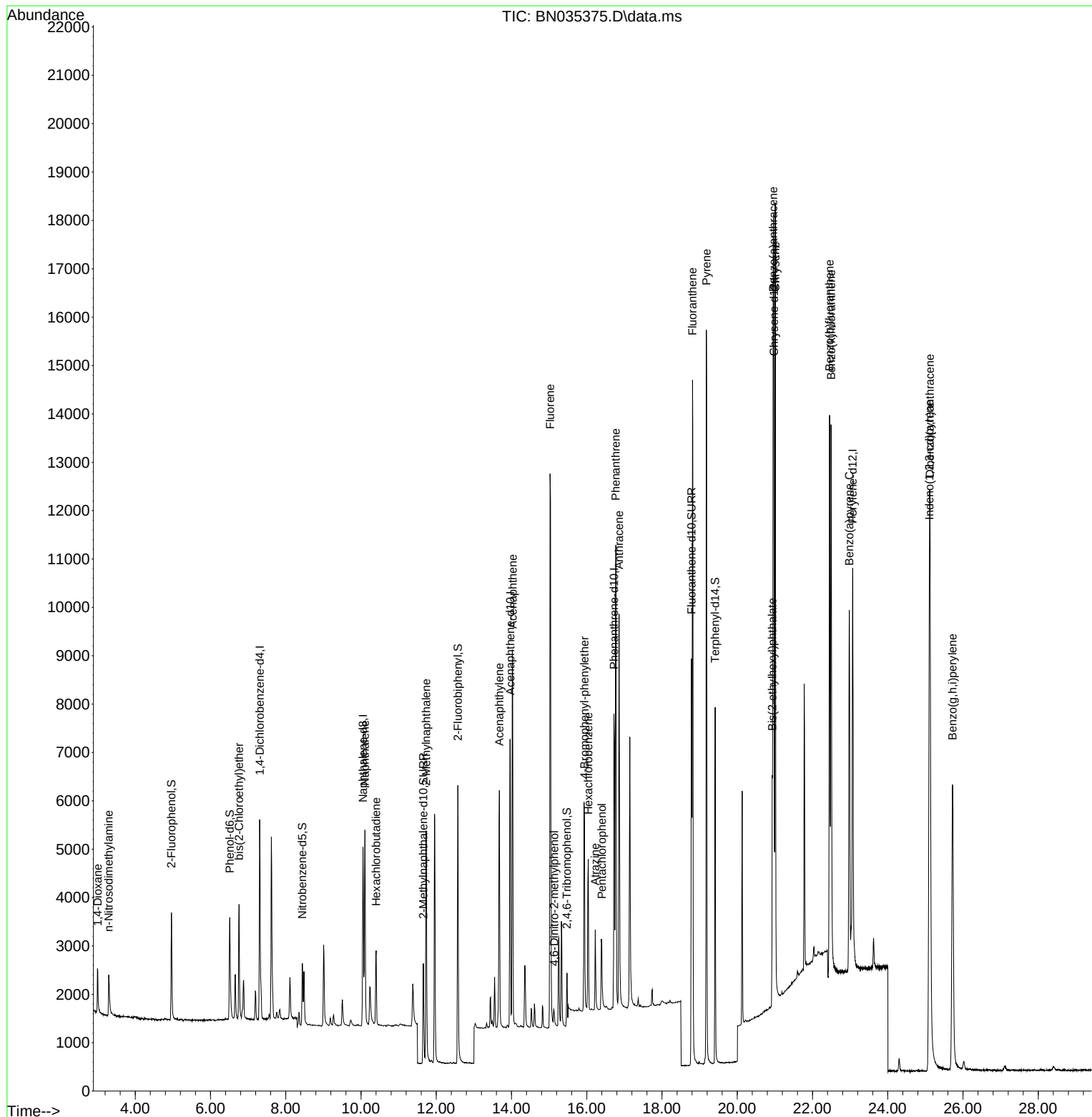
| Compound                      | R.T.   | QIon | Response | Conc  | Units | Dev(Min) |
|-------------------------------|--------|------|----------|-------|-------|----------|
| -----                         |        |      |          |       |       |          |
| Internal Standards            |        |      |          |       |       |          |
| 1) 1,4-Dichlorobenzene-d4     | 7.308  | 152  | 1994     | 0.400 | ng    | 0.00     |
| 7) Naphthalene-d8             | 10.052 | 136  | 5101     | 0.400 | ng    | 0.00     |
| 13) Acenaphthene-d10          | 13.967 | 164  | 3798     | 0.400 | ng    | 0.00     |
| 19) Phenanthrene-d10          | 16.723 | 188  | 9566     | 0.400 | ng    | #-0.01   |
| 29) Chrysene-d12              | 20.974 | 240  | 9222     | 0.400 | ng    | 0.00     |
| 35) Perylene-d12              | 23.067 | 264  | 10081    | 0.400 | ng    | 0.00     |
| System Monitoring Compounds   |        |      |          |       |       |          |
| 4) 2-Fluorophenol             | 4.960  | 112  | 2006     | 0.402 | ng    | 0.00     |
| 5) Phenol-d6                  | 6.513  | 99   | 2417     | 0.403 | ng    | 0.00     |
| 8) Nitrobenzene-d5            | 8.440  | 82   | 1412     | 0.453 | ng    | 0.00     |
| 11) 2-Methylnaphthalene-d10   | 11.656 | 152  | 3130     | 0.392 | ng    | 0.00     |
| 14) 2,4,6-Tribromophenol      | 15.475 | 330  | 1011     | 0.375 | ng    | 0.00     |
| 15) 2-Fluorobiphenyl          | 12.574 | 172  | 5760     | 0.401 | ng    | 0.00     |
| 27) Fluoranthene-d10          | 18.785 | 212  | 10104    | 0.373 | ng    | 0.00     |
| 31) Terphenyl-d14             | 19.412 | 244  | 7255     | 0.399 | ng    | 0.00     |
| Target Compounds              |        |      |          |       |       |          |
|                               |        |      |          |       |       | Qvalue   |
| 2) 1,4-Dioxane                | 3.003  | 88   | 754      | 0.396 | ng    | 98       |
| 3) n-Nitrosodimethylamine     | 3.292  | 42   | 628      | 0.396 | ng    | # 98     |
| 6) bis(2-Chloroethyl)ether    | 6.759  | 93   | 1960     | 0.389 | ng    | 100      |
| 9) Naphthalene                | 10.105 | 128  | 5328     | 0.396 | ng    | 99       |
| 10) Hexachlorobutadiene       | 10.404 | 225  | 1326     | 0.427 | ng    | # 98     |
| 12) 2-Methylnaphthalene       | 11.732 | 142  | 3793     | 0.394 | ng    | 97       |
| 16) Acenaphthylene            | 13.679 | 152  | 6028     | 0.378 | ng    | 99       |
| 17) Acenaphthene              | 14.031 | 154  | 4106     | 0.388 | ng    | 99       |
| 18) Fluorene                  | 15.026 | 166  | 5935     | 0.392 | ng    | 100      |
| 20) 4,6-Dinitro-2-methylph... | 15.133 | 198  | 357      | 0.380 | ng    | 91       |
| 21) 4-Bromophenyl-phenylether | 15.941 | 248  | 2206     | 0.394 | ng    | 100      |
| 22) Hexachlorobenzene         | 16.040 | 284  | 2655     | 0.404 | ng    | 99       |
| 23) Atrazine                  | 16.227 | 200  | 1384     | 0.347 | ng    | 98       |
| 24) Pentachlorophenol         | 16.400 | 266  | 973      | 0.340 | ng    | # 84     |
| 25) Phenanthrene              | 16.773 | 178  | 10204    | 0.388 | ng    | 100      |
| 26) Anthracene                | 16.860 | 178  | 8929     | 0.376 | ng    | 100      |
| 28) Fluoranthene              | 18.812 | 202  | 13216    | 0.373 | ng    | 99       |
| 30) Pyrene                    | 19.179 | 202  | 13731    | 0.403 | ng    | 100      |
| 32) Benzo(a)anthracene        | 20.956 | 228  | 11985    | 0.372 | ng    | 99       |
| 33) Chrysene                  | 21.009 | 228  | 13365    | 0.402 | ng    | 99       |
| 34) Bis(2-ethylhexyl)phtha... | 20.929 | 149  | 4380     | 0.344 | ng    | 100      |
| 36) Indeno(1,2,3-cd)pyrene    | 25.105 | 276  | 15538    | 0.394 | ng    | 99       |
| 37) Benzo(b)fluoranthene      | 22.453 | 252  | 13327    | 0.361 | ng    | 99       |
| 38) Benzo(k)fluoranthene      | 22.494 | 252  | 14406    | 0.397 | ng    | 99       |
| 39) Benzo(a)pyrene            | 22.977 | 252  | 10891    | 0.359 | ng    | 99       |
| 40) Dibenzo(a,h)anthracene    | 25.123 | 278  | 12092    | 0.389 | ng    | 99       |
| 41) Benzo(g,h,i)perylene      | 25.722 | 276  | 12501    | 0.385 | ng    | 99       |
| -----                         |        |      |          |       |       |          |

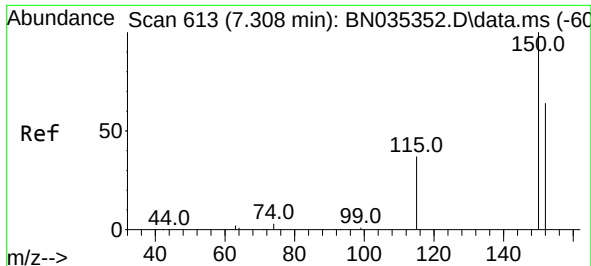
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Data File : BN035375.D  
Acq On : 28 Nov 2024 09:02  
Operator : RC/JU  
Sample : SSTDCCC0.4  
Misc :  
ALS Vial : 29 Sample Multiplier: 1

Instrument :  
BNA\_N  
ClientSampleId :  
SSTDCCC0.4EC

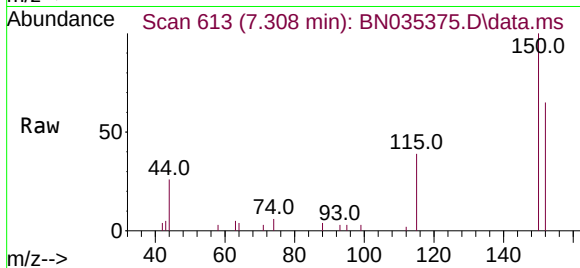
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Wed Nov 27 23:03:24 2024  
Response via : Initial Calibration





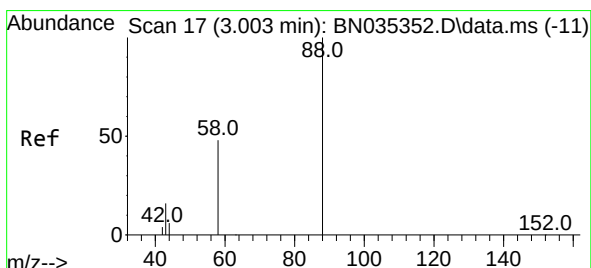
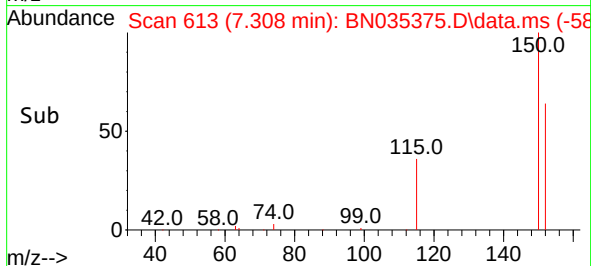
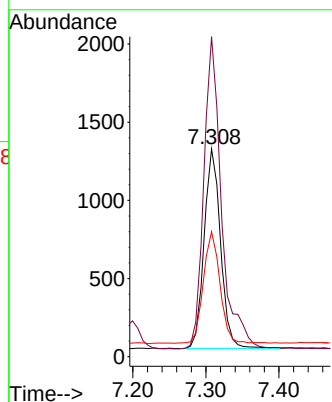
#1  
 1,4-Dichlorobenzene-d4  
 Concen: 0.400 ng  
 RT: 7.308 min Scan# 61  
 Delta R.T. -0.000 min  
 Lab File: BN035375.D  
 Acq: 28 Nov 2024 09:02

Instrument :  
 BNA\_N  
 ClientSampleId :  
 SSTDCCC0.4EC



Tgt Ion:152 Resp: 1994

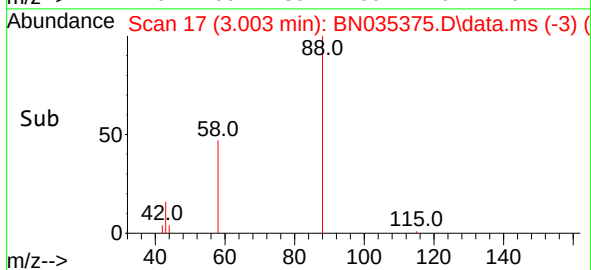
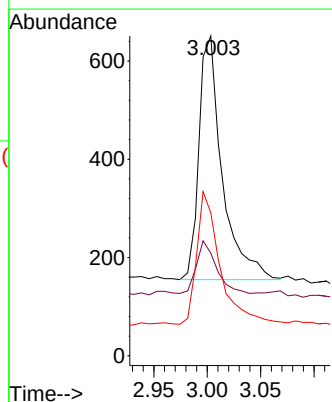
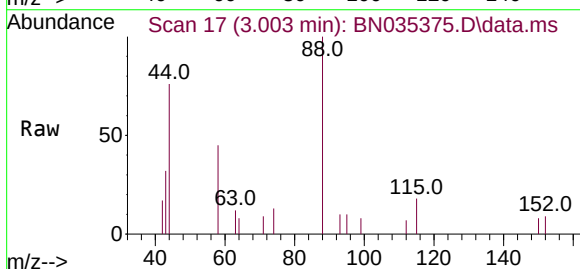
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 152 | 100   |       |       |
| 150 | 153.9 | 124.0 | 186.0 |
| 115 | 60.2  | 49.6  | 74.4  |

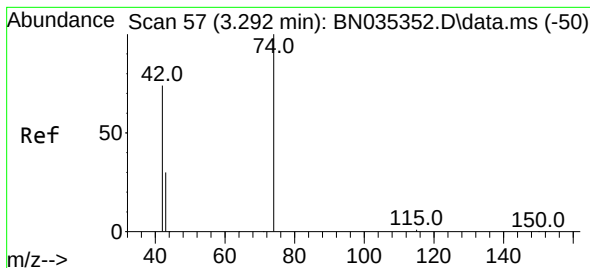


#2  
 1,4-Dioxane  
 Concen: 0.396 ng  
 RT: 3.003 min Scan# 17  
 Delta R.T. 0.000 min  
 Lab File: BN035375.D  
 Acq: 28 Nov 2024 09:02

Tgt Ion: 88 Resp: 754

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 88  | 100   |       |       |
| 43  | 20.6  | 17.2  | 25.8  |
| 58  | 53.8  | 44.5  | 66.7  |





#3

n-Nitrosodimethylamine

Concen: 0.396 ng

RT: 3.292 min Scan# 51

Delta R.T. 0.000 min

Lab File: BN035375.D

Acq: 28 Nov 2024 09:02

Instrument :

BNA\_N

ClientSampleId :

SSTDCCC0.4EC

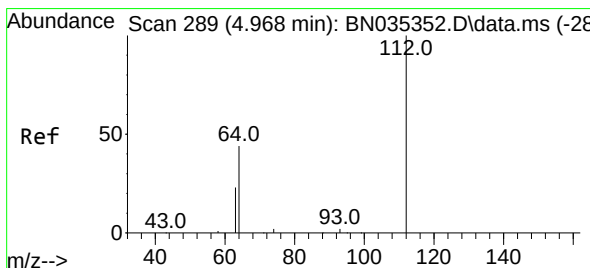
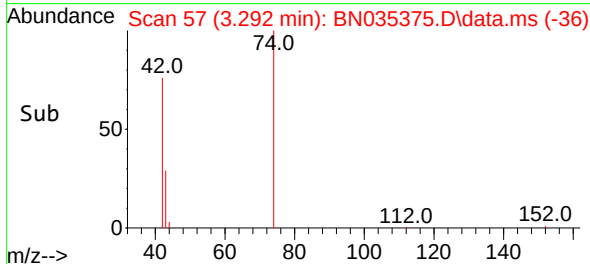
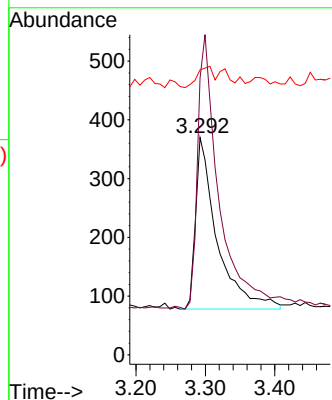
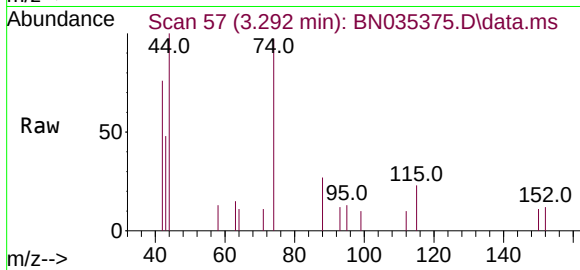
Tgt Ion: 42 Resp: 628

Ion Ratio Lower Upper

42 100

74 158.8 124.9 187.3

44 8.9 2.2 3.4#



#4

2-Fluorophenol

Concen: 0.402 ng

RT: 4.960 min Scan# 288

Delta R.T. -0.007 min

Lab File: BN035375.D

Acq: 28 Nov 2024 09:02

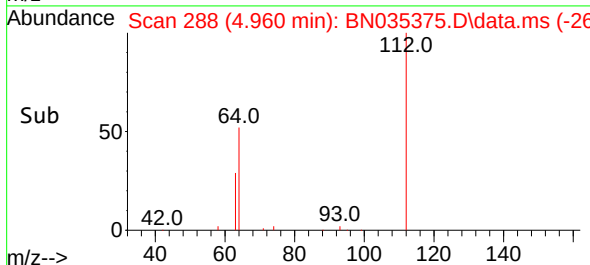
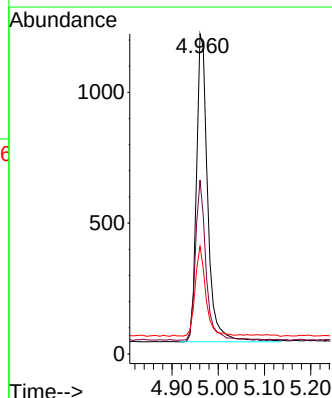
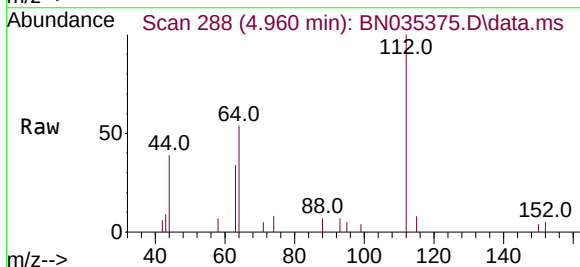
Tgt Ion: 112 Resp: 2006

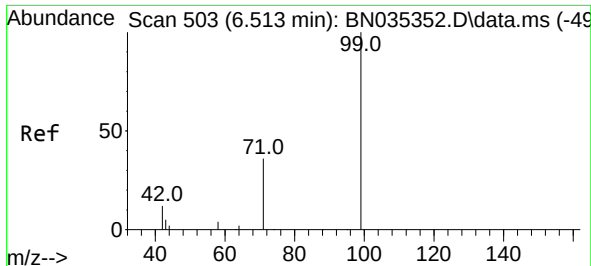
Ion Ratio Lower Upper

112 100

64 48.5 39.8 59.8

63 27.4 21.0 31.6

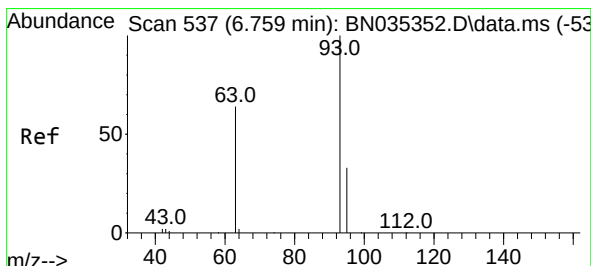
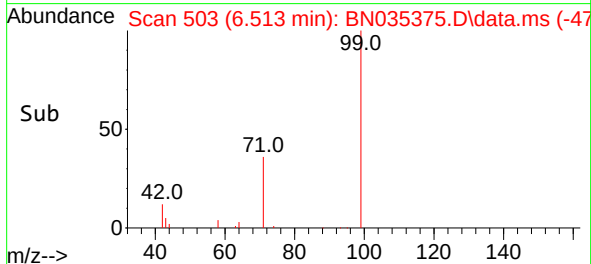
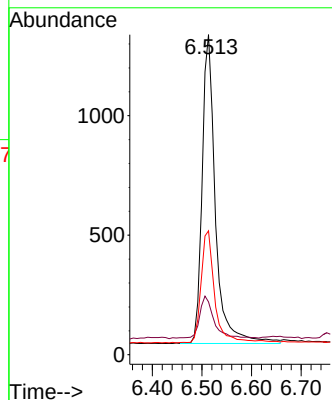
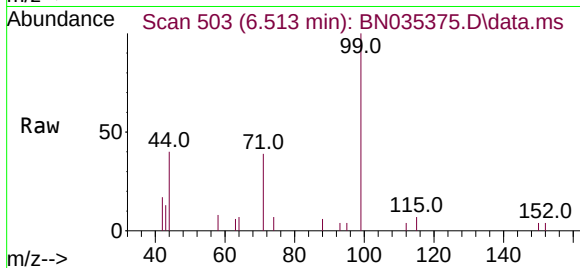




#5  
Phenol-d6  
Concen: 0.403 ng  
RT: 6.513 min Scan# 503  
Delta R.T. 0.000 min  
Lab File: BN035375.D  
Acq: 28 Nov 2024 09:02

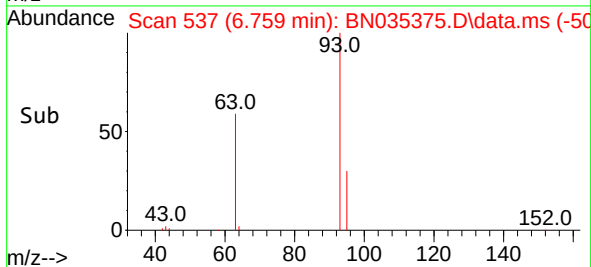
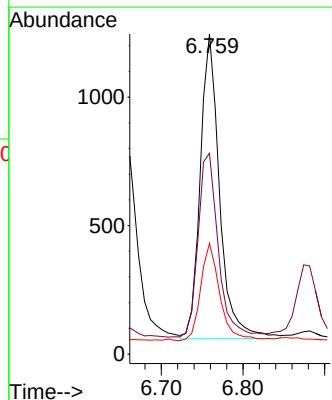
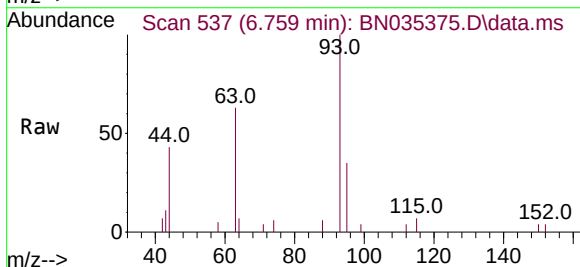
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BNA\_N  
ClientSampleId :  
SSTDCCC0.4EC

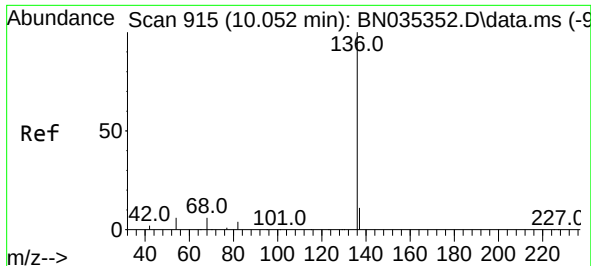
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 99    | Resp: | 2417  |
| Ion      | Ratio | Lower | Upper |
| 99       | 100   |       |       |
| 42       | 15.5  | 11.4  | 17.2  |
| 71       | 36.5  | 29.3  | 43.9  |



#6  
bis(2-Chloroethyl)ether  
Concen: 0.389 ng  
RT: 6.759 min Scan# 537  
Delta R.T. 0.000 min  
Lab File: BN035375.D  
Acq: 28 Nov 2024 09:02

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 93    | Resp: | 1960  |
| Ion      | Ratio | Lower | Upper |
| 93       | 100   |       |       |
| 63       | 62.9  | 50.4  | 75.6  |
| 95       | 31.6  | 25.7  | 38.5  |

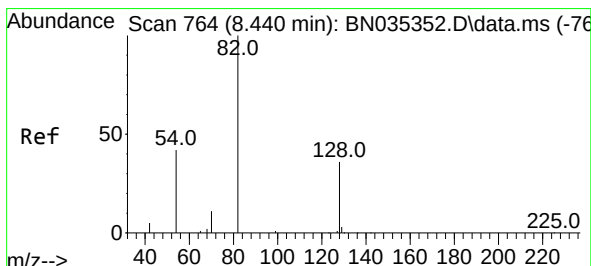
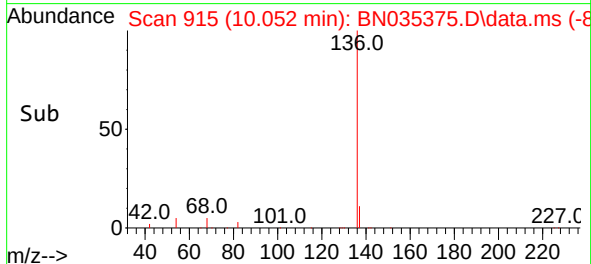
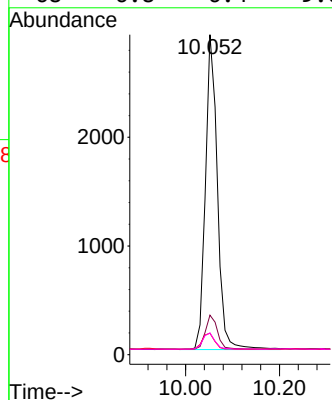
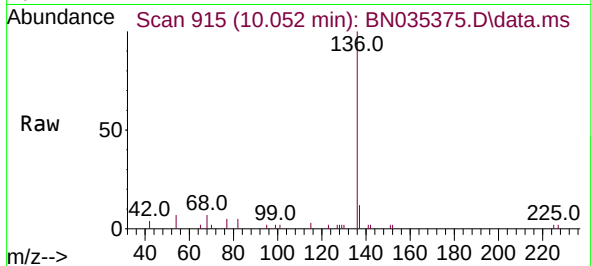




#7  
Naphthalene-d8  
Concen: 0.400 ng  
RT: 10.052 min Scan# 915  
Delta R.T. 0.000 min  
Lab File: BN035375.D  
Acq: 28 Nov 2024 09:02

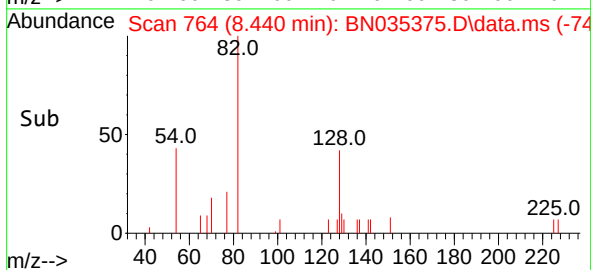
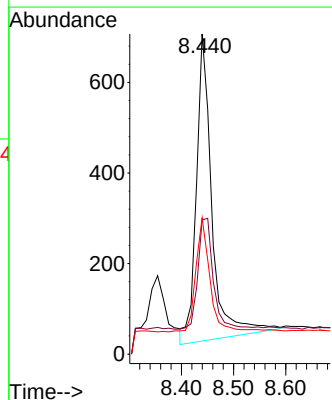
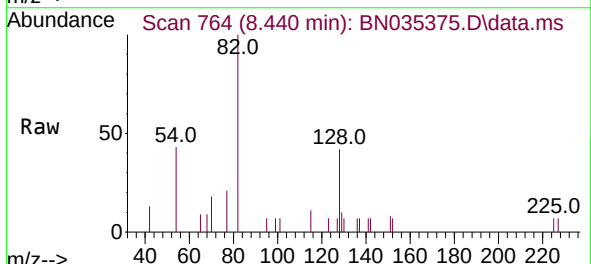
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ClientSampleId :  
SSTDCCC0.4EC

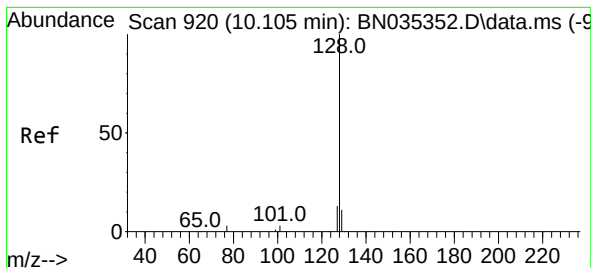
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 136   | Resp: | 5101  |
| Ion      | Ratio | Lower | Upper |
| 136      | 100   |       |       |
| 137      | 12.4  | 10.2  | 15.2  |
| 54       | 6.7   | 6.1   | 9.1   |
| 68       | 6.8   | 6.4   | 9.6   |



#8  
Nitrobenzene-d5  
Concen: 0.453 ng  
RT: 8.440 min Scan# 764  
Delta R.T. 0.000 min  
Lab File: BN035375.D  
Acq: 28 Nov 2024 09:02

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 82    | Resp: | 1412  |
| Ion      | Ratio | Lower | Upper |
| 82       | 100   |       |       |
| 128      | 41.9  | 33.4  | 50.0  |
| 54       | 42.6  | 36.7  | 55.1  |





#9

Naphthalene

Concen: 0.396 ng

RT: 10.105 min Scan# 91

Delta R.T. 0.000 min

Lab File: BN035375.D

Acq: 28 Nov 2024 09:02

Instrument :

BNA\_N

ClientSampleId :

SSTDCCC0.4EC

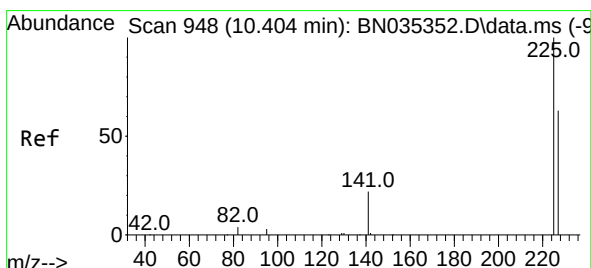
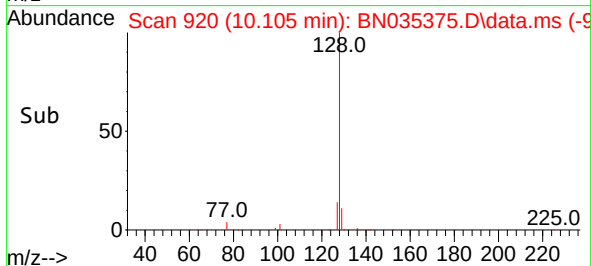
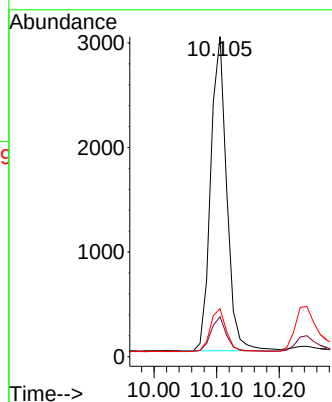
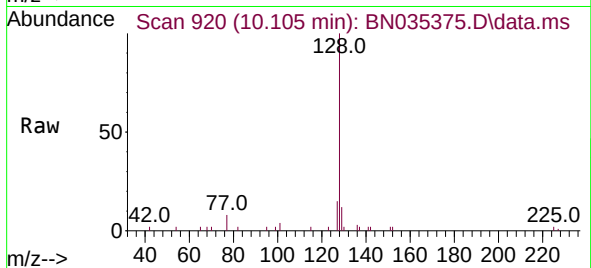
Tgt Ion:128 Resp: 5328

Ion Ratio Lower Upper

128 100

129 12.5 9.8 14.6

127 15.0 11.4 17.2



#10

Hexachlorobutadiene

Concen: 0.427 ng

RT: 10.404 min Scan# 948

Delta R.T. 0.000 min

Lab File: BN035375.D

Acq: 28 Nov 2024 09:02

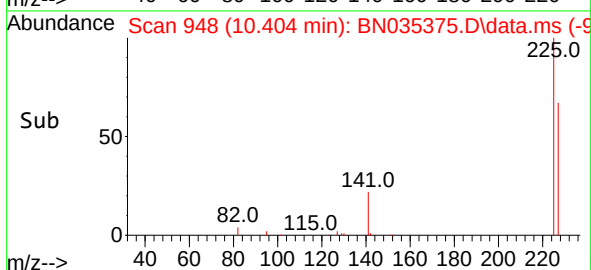
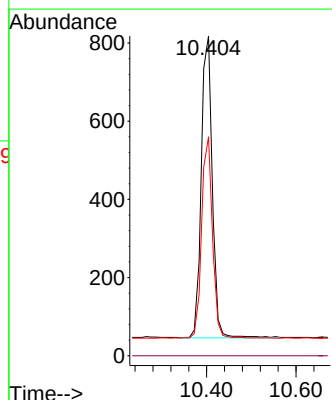
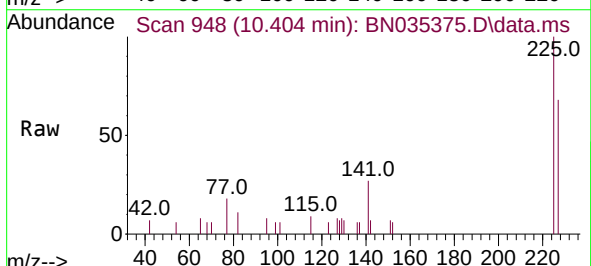
Tgt Ion:225 Resp: 1326

Ion Ratio Lower Upper

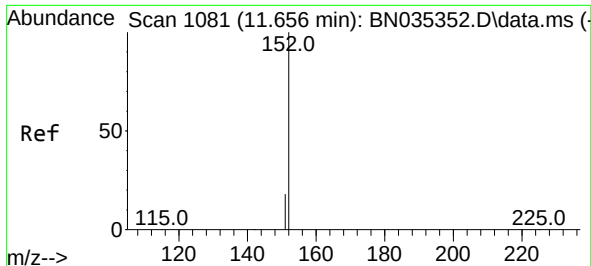
225 100

223 0.0 0.0 0.0

227 65.4 51.3 76.9



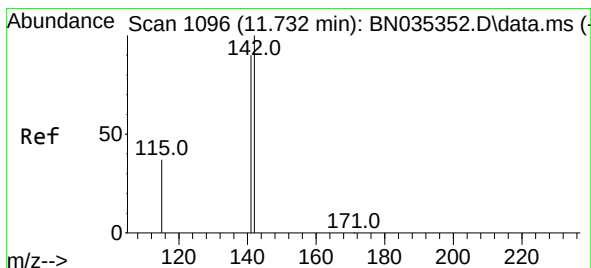
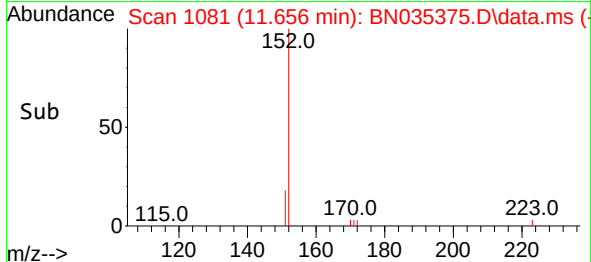
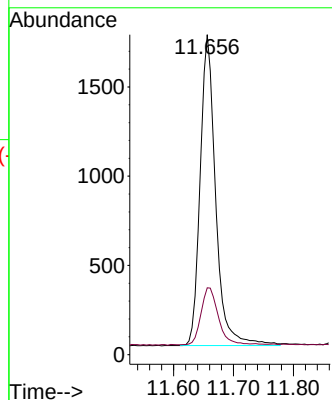
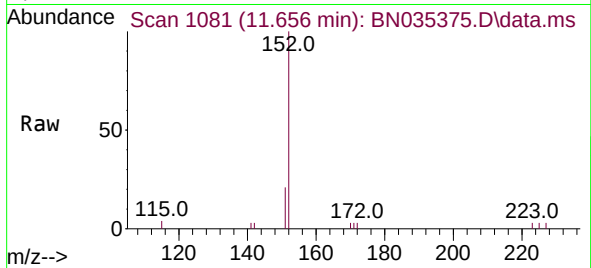




#11  
2-Methylnaphthalene-d10  
Concen: 0.392 ng  
RT: 11.656 min Scan# 1081  
Delta R.T. 0.000 min  
Lab File: BN035375.D  
Acq: 28 Nov 2024 09:02

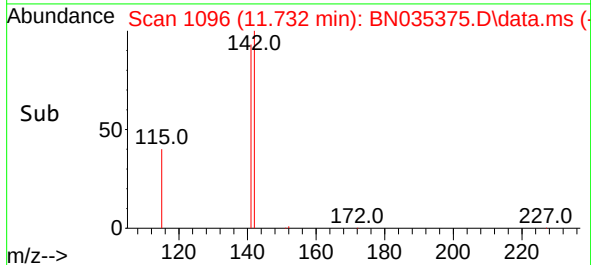
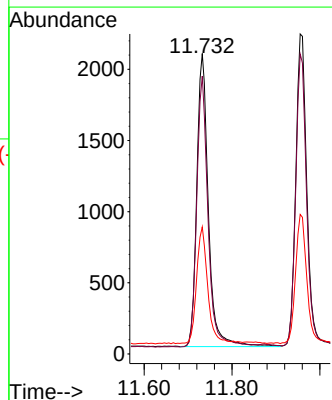
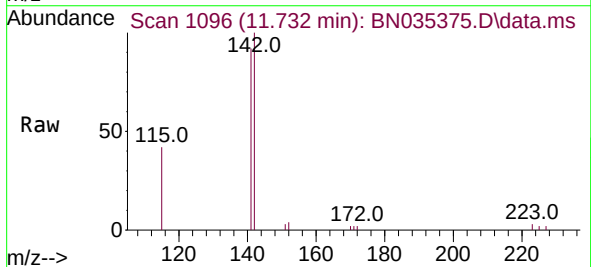
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BNA\_N  
ClientSampleId :  
SSTDCCC0.4EC

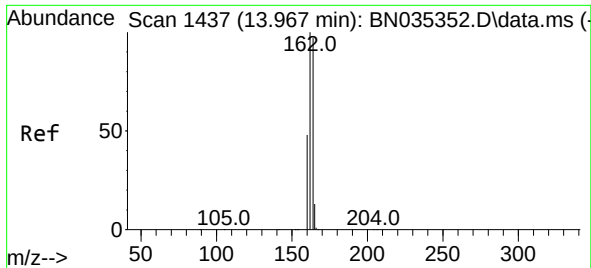
Tgt Ion:152 Resp: 3130  
Ion Ratio Lower Upper  
152 100  
151 20.4 16.6 25.0



#12  
2-Methylnaphthalene  
Concen: 0.394 ng  
RT: 11.732 min Scan# 1096  
Delta R.T. 0.000 min  
Lab File: BN035375.D  
Acq: 28 Nov 2024 09:02

Tgt Ion:142 Resp: 3793  
Ion Ratio Lower Upper  
142 100  
141 92.5 72.2 108.4  
115 42.3 31.4 47.0

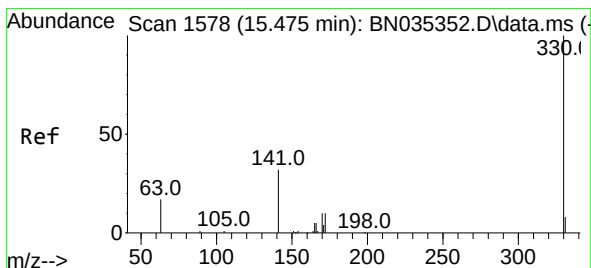
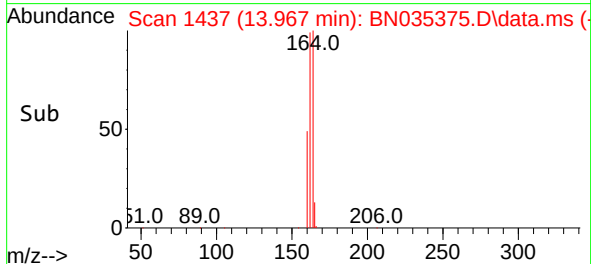
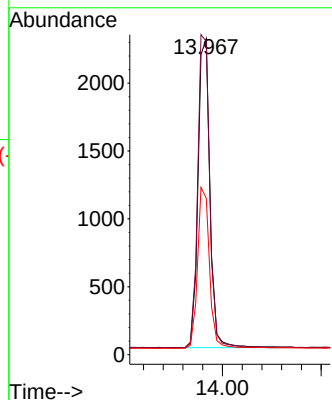
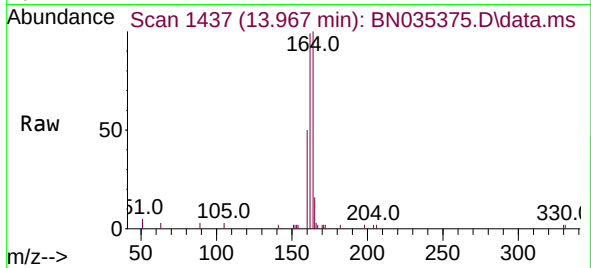




#13  
Acenaphthene-d10  
Concen: 0.400 ng  
RT: 13.967 min Scan# 1437  
Delta R.T. 0.000 min  
Lab File: BN035375.D  
Acq: 28 Nov 2024 09:02

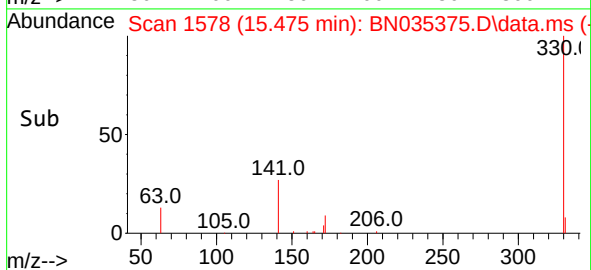
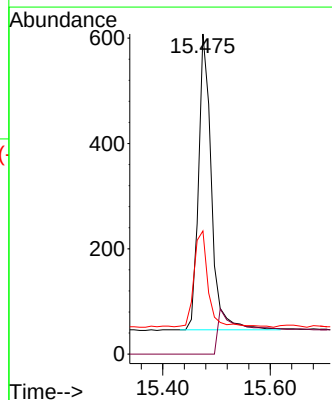
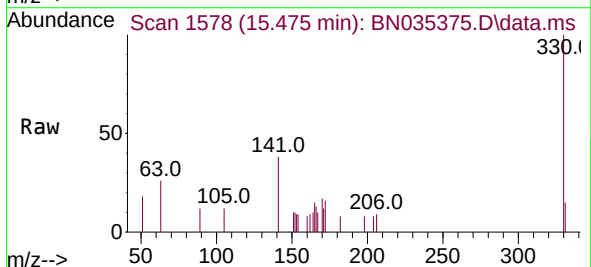
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDCCC0.4EC

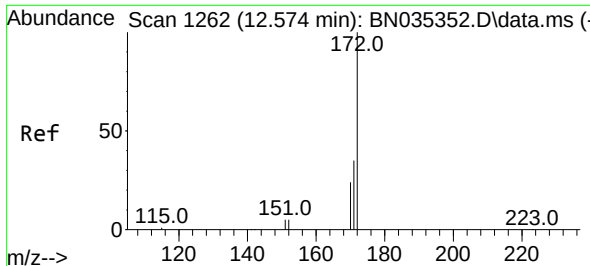
Tgt Ion:164 Resp: 3798  
Ion Ratio Lower Upper  
164 100  
162 99.2 82.2 123.2  
160 49.5 40.1 60.1



#14  
2,4,6-Tribromophenol  
Concen: 0.375 ng  
RT: 15.475 min Scan# 1578  
Delta R.T. 0.000 min  
Lab File: BN035375.D  
Acq: 28 Nov 2024 09:02

Tgt Ion:330 Resp: 1011  
Ion Ratio Lower Upper  
330 100  
332 0.0 0.0 0.0  
141 35.5 26.6 40.0

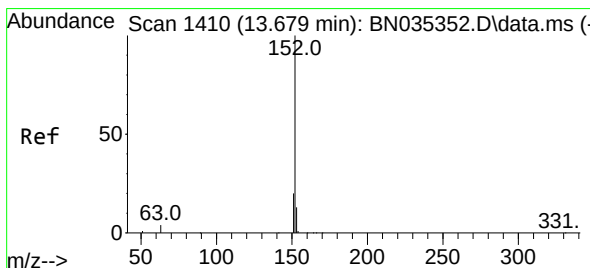
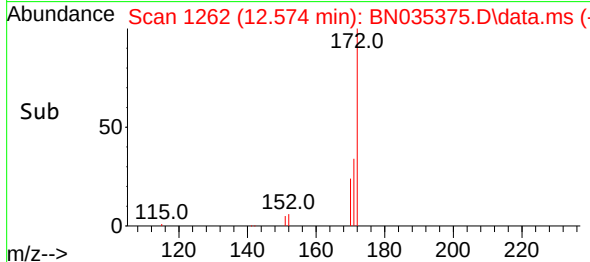
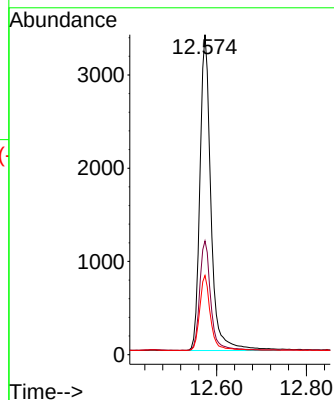
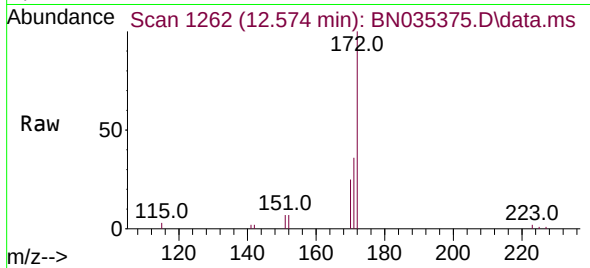




#15  
2-Fluorobiphenyl  
Concen: 0.401 ng  
RT: 12.574 min Scan# 11  
Delta R.T. 0.000 min  
Lab File: BN035375.D  
Acq: 28 Nov 2024 09:02

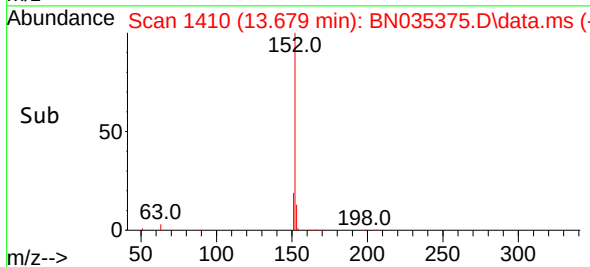
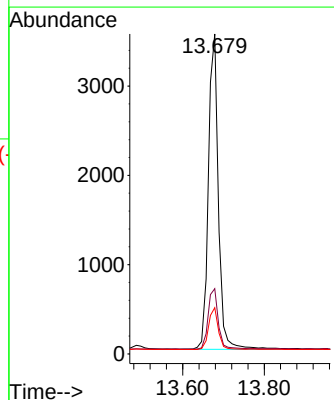
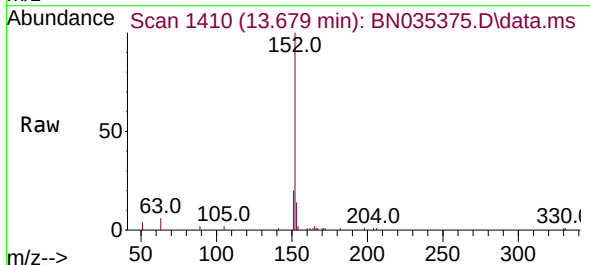
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDCCC0.4EC

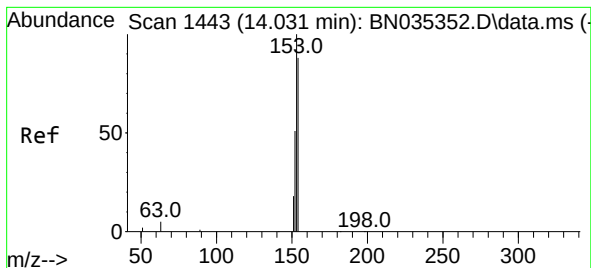
Tgt Ion:172 Resp: 5760  
Ion Ratio Lower Upper  
172 100  
171 35.5 29.0 43.4  
170 24.7 19.8 29.8



#16  
Acenaphthylene  
Concen: 0.378 ng  
RT: 13.679 min Scan# 1410  
Delta R.T. 0.000 min  
Lab File: BN035375.D  
Acq: 28 Nov 2024 09:02

Tgt Ion:152 Resp: 6028  
Ion Ratio Lower Upper  
152 100  
151 19.5 16.2 24.2  
153 12.9 10.4 15.6





#17

Acenaphthene

Concen: 0.388 ng

RT: 14.031 min Scan# 1443

Delta R.T. 0.000 min

Lab File: BN035375.D

Acq: 28 Nov 2024 09:02

Instrument :

BNA\_N

ClientSampleId :

SSTDCCC0.4EC

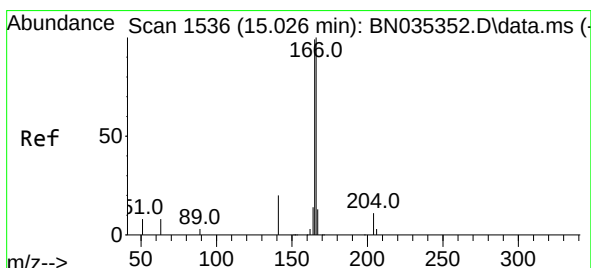
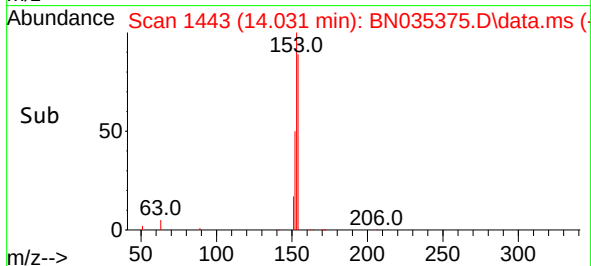
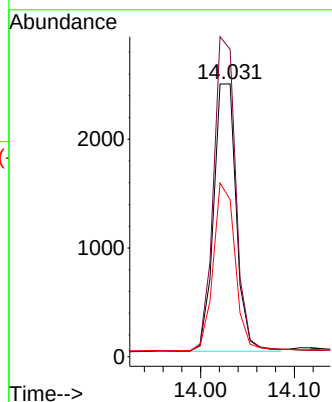
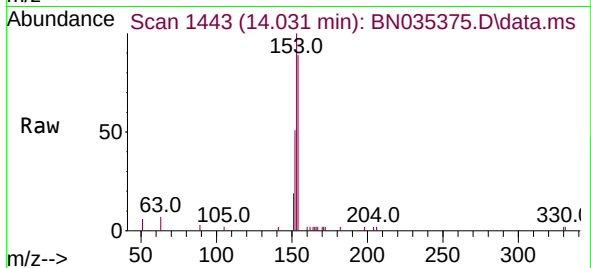
Tgt Ion:154 Resp: 4106

Ion Ratio Lower Upper

154 100

153 117.0 92.6 139.0

152 61.6 49.0 73.6



#18

Fluorene

Concen: 0.392 ng

RT: 15.026 min Scan# 1536

Delta R.T. 0.000 min

Lab File: BN035375.D

Acq: 28 Nov 2024 09:02

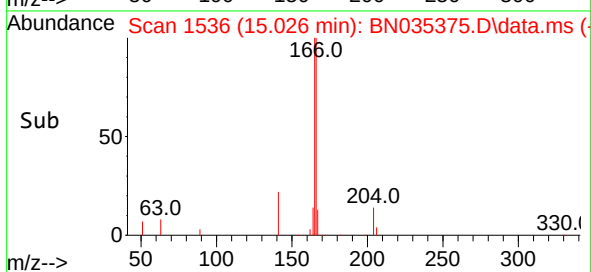
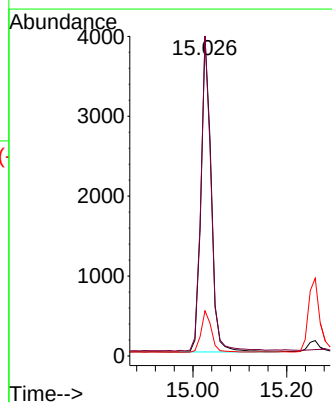
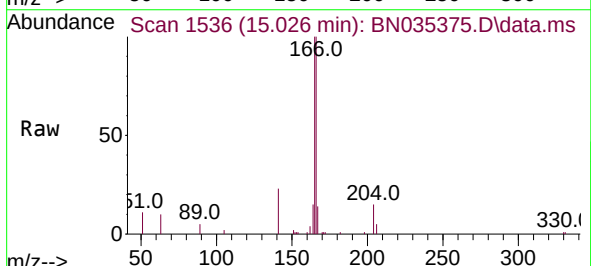
Tgt Ion:166 Resp: 5935

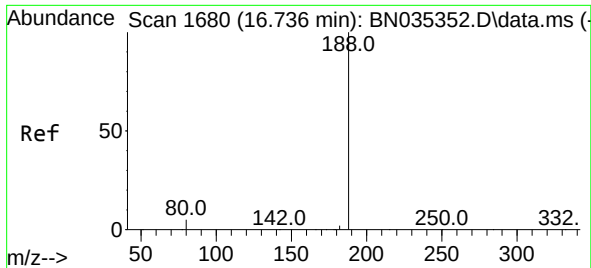
Ion Ratio Lower Upper

166 100

165 99.5 79.7 119.5

167 13.3 10.8 16.2

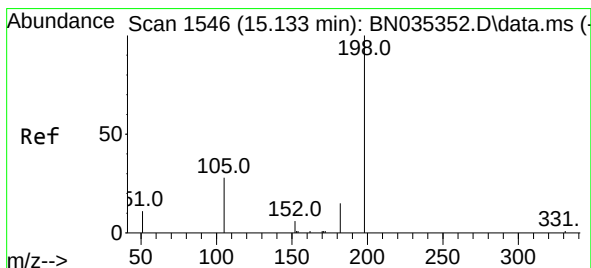
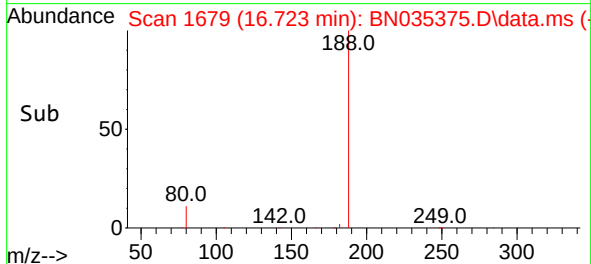
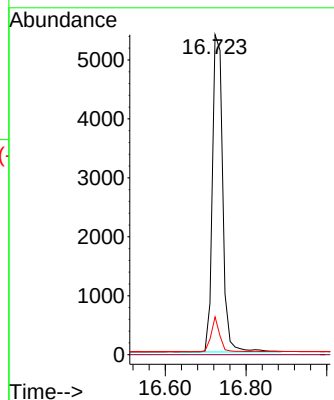
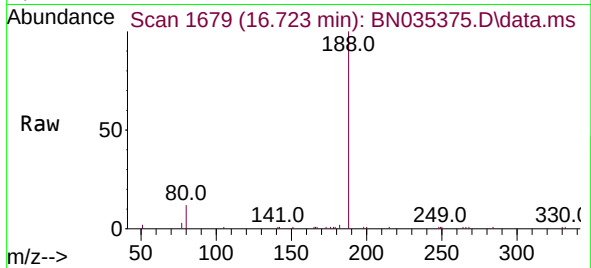




#19  
Phenanthrene-d10  
Concen: 0.400 ng  
RT: 16.723 min Scan# 1679  
Delta R.T. -0.012 min  
Lab File: BN035375.D  
Acq: 28 Nov 2024 09:02

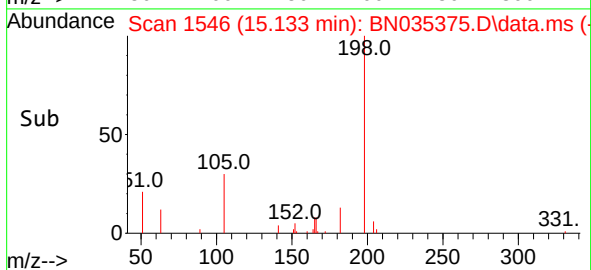
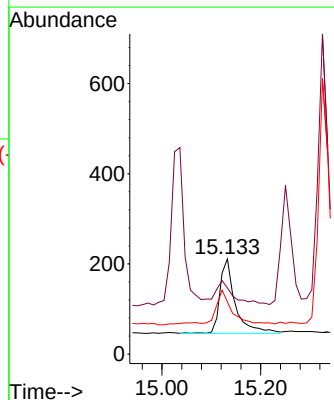
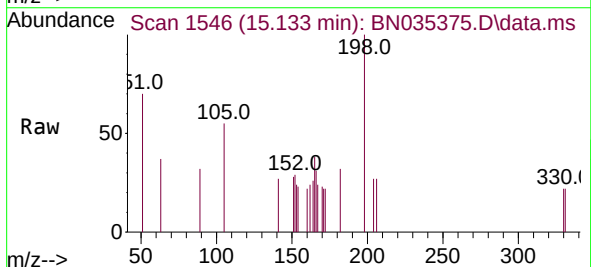
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDCCC0.4EC

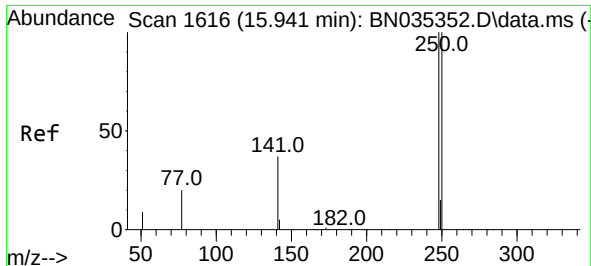
Tgt Ion:188 Resp: 9566  
Ion Ratio Lower Upper  
188 100  
94 0.0 0.0 0.0  
80 11.8 4.6 6.8#



#20  
4,6-Dinitro-2-methylphenol  
Concen: 0.380 ng  
RT: 15.133 min Scan# 1546  
Delta R.T. -0.000 min  
Lab File: BN035375.D  
Acq: 28 Nov 2024 09:02

Tgt Ion:198 Resp: 357  
Ion Ratio Lower Upper  
198 100  
51 69.7 46.5 69.7  
105 55.0 45.3 67.9

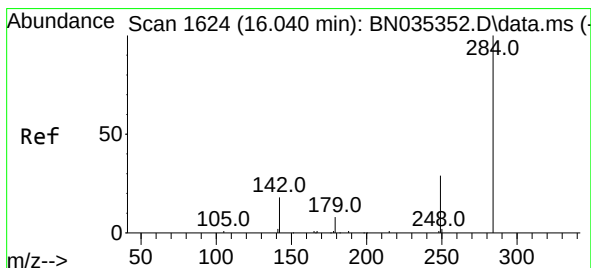
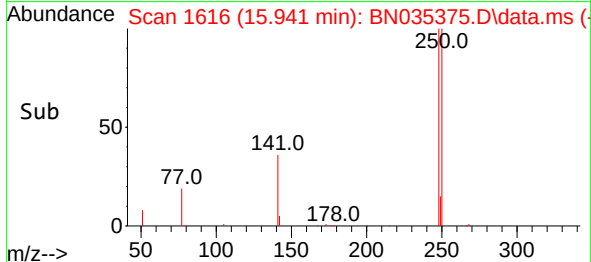
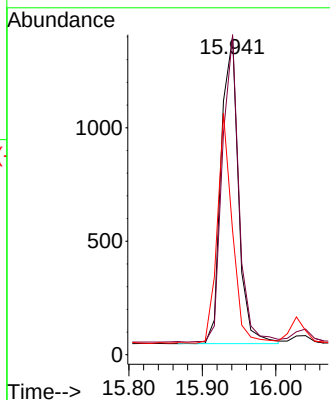
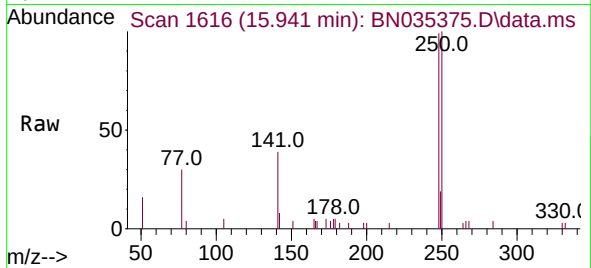




#21  
4-Bromophenyl-phenylether  
Concen: 0.394 ng  
RT: 15.941 min Scan# 1616  
Delta R.T. 0.000 min  
Lab File: BN035375.D  
Acq: 28 Nov 2024 09:02

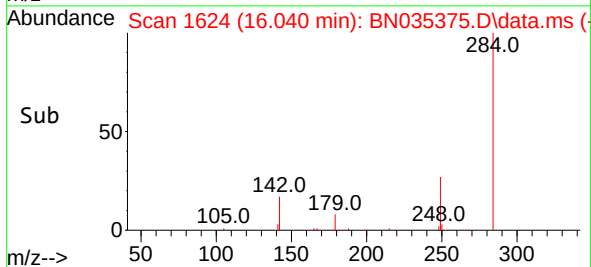
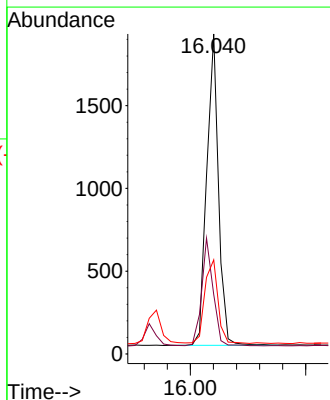
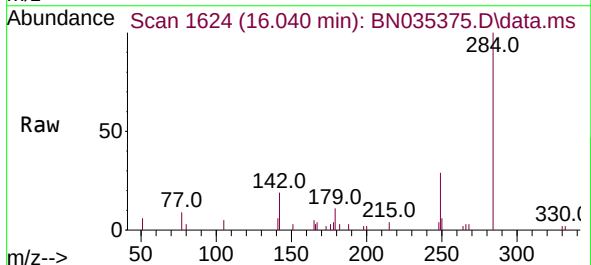
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDCCC0.4EC

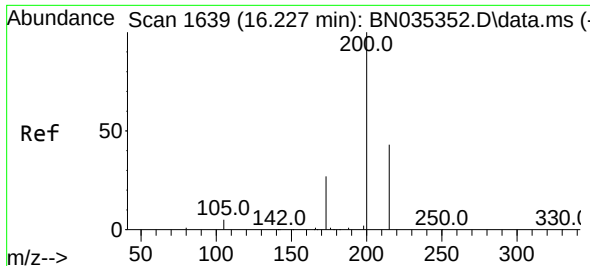
Tgt Ion:248 Resp: 2206  
Ion Ratio Lower Upper  
248 100  
250 100.7 80.6 120.8  
141 38.9 31.5 47.3



#22  
Hexachlorobenzene  
Concen: 0.404 ng  
RT: 16.040 min Scan# 1624  
Delta R.T. 0.000 min  
Lab File: BN035375.D  
Acq: 28 Nov 2024 09:02

Tgt Ion:284 Resp: 2655  
Ion Ratio Lower Upper  
284 100  
142 33.9 26.7 40.1  
249 30.2 24.6 36.8

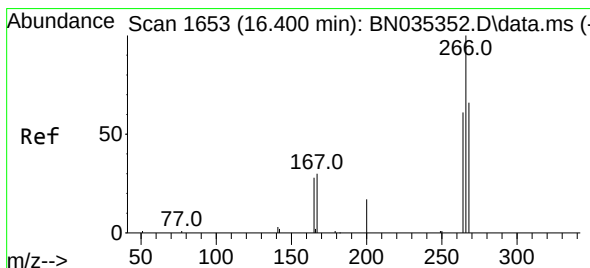
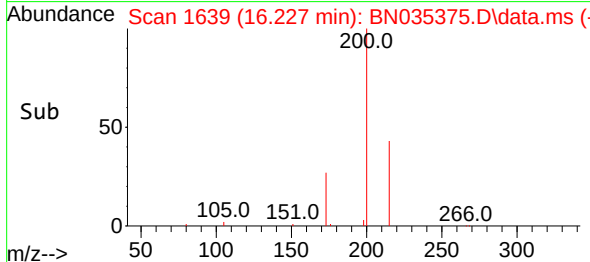
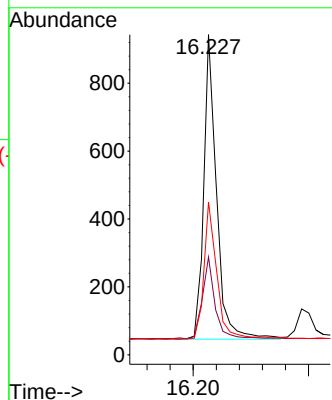
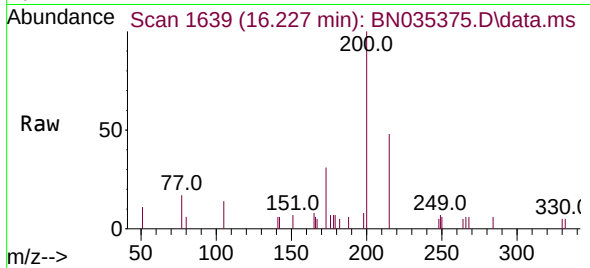




#23  
 Atrazine  
 Concen: 0.347 ng  
 RT: 16.227 min Scan# 1639  
 Delta R.T. 0.000 min  
 Lab File: BN035375.D  
 Acq: 28 Nov 2024 09:02

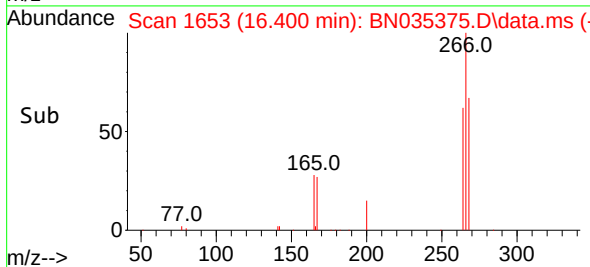
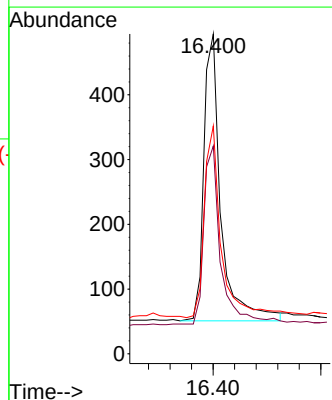
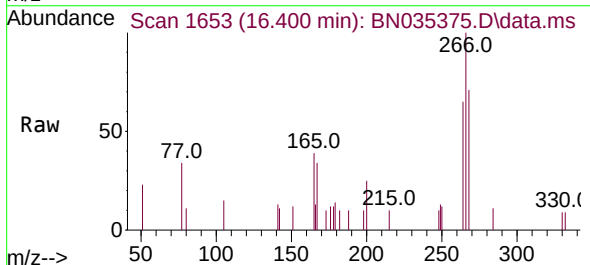
Instrument :  
 BNA\_N  
 ClientSampleId :  
 SSTDCCC0.4EC

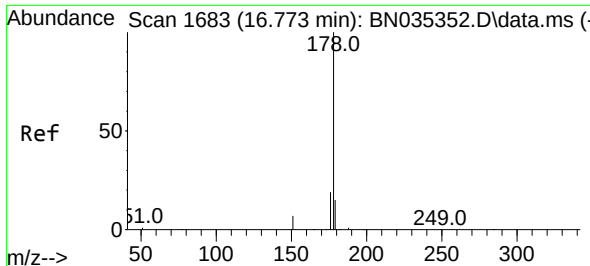
Tgt Ion:200 Resp: 1384  
 Ion Ratio Lower Upper  
 200 100  
 173 30.5 24.1 36.1  
 215 47.7 36.9 55.3



#24  
 Pentachlorophenol  
 Concen: 0.340 ng  
 RT: 16.400 min Scan# 1653  
 Delta R.T. 0.000 min  
 Lab File: BN035375.D  
 Acq: 28 Nov 2024 09:02

Tgt Ion:266 Resp: 973  
 Ion Ratio Lower Upper  
 266 100  
 264 62.7 42.3 63.5  
 268 67.7 43.3 64.9#

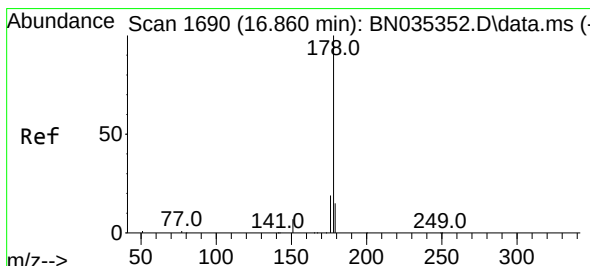
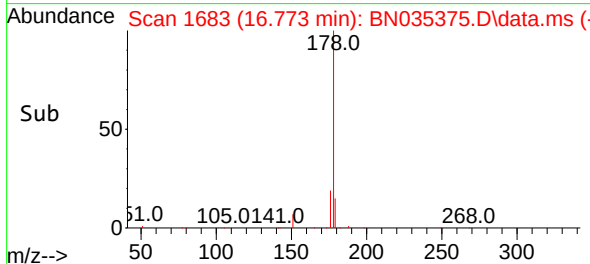
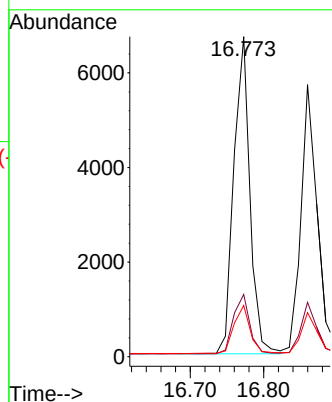
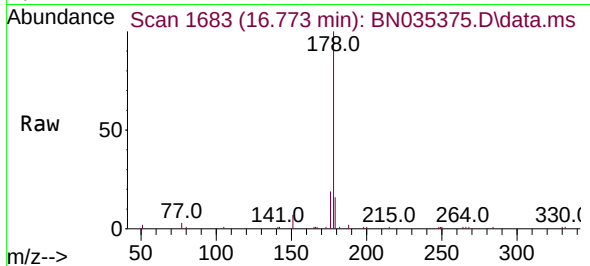




#25  
Phenanthrene  
Concen: 0.388 ng  
RT: 16.773 min Scan# 1683  
Delta R.T. 0.000 min  
Lab File: BN035375.D  
Acq: 28 Nov 2024 09:02

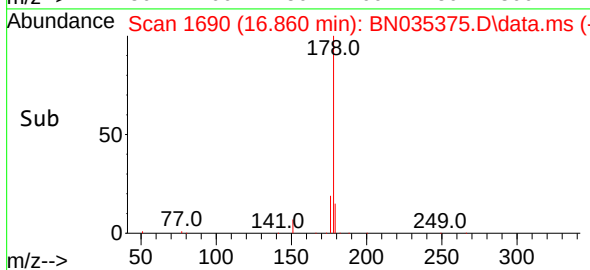
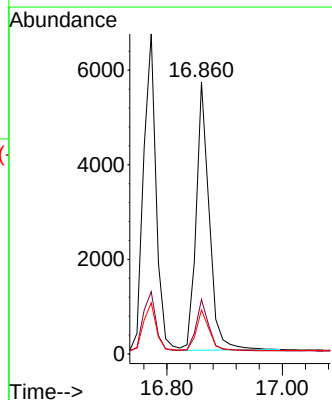
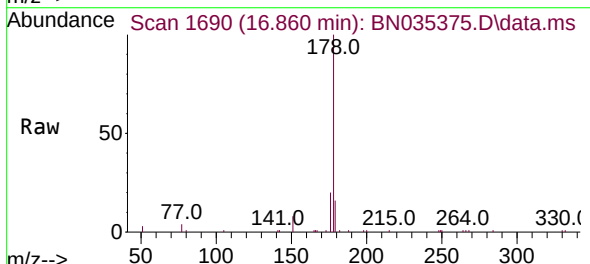
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDCCC0.4EC

Tgt Ion:178 Resp: 10204  
Ion Ratio Lower Upper  
178 100  
176 19.1 15.4 23.2  
179 15.4 12.3 18.5

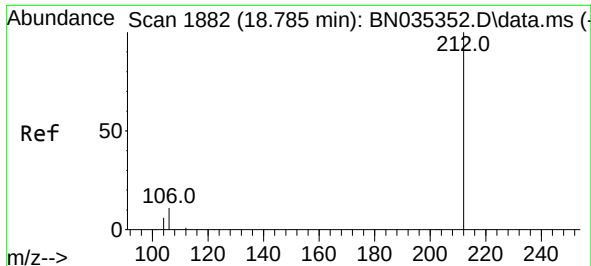


#26  
Anthracene  
Concen: 0.376 ng  
RT: 16.860 min Scan# 1690  
Delta R.T. 0.000 min  
Lab File: BN035375.D  
Acq: 28 Nov 2024 09:02

Tgt Ion:178 Resp: 8929  
Ion Ratio Lower Upper  
178 100  
176 18.7 15.0 22.6  
179 15.5 12.6 18.8



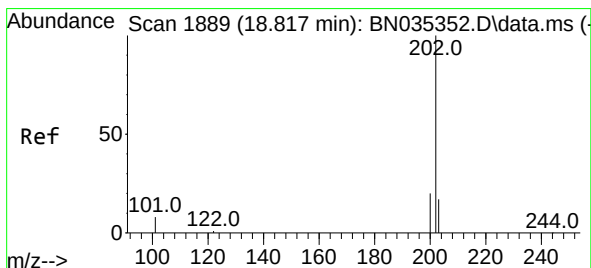
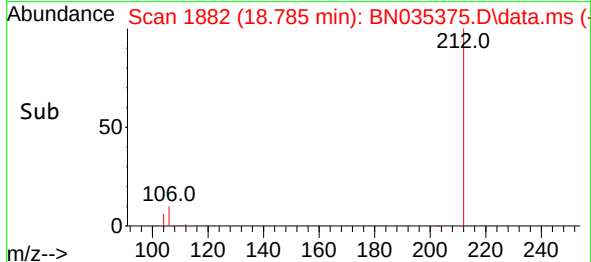
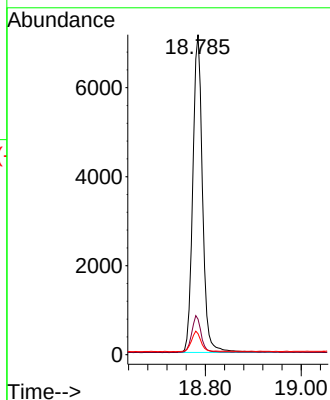
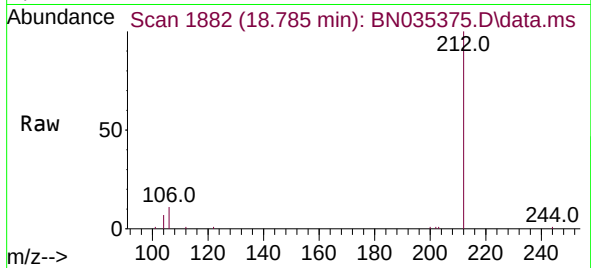




#27  
Fluoranthene-d10  
Concen: 0.373 ng  
RT: 18.785 min Scan# 1882  
Delta R.T. 0.000 min  
Lab File: BN035375.D  
Acq: 28 Nov 2024 09:02

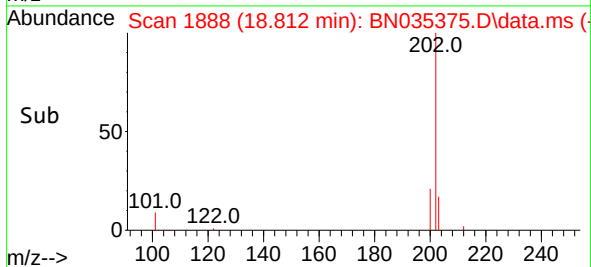
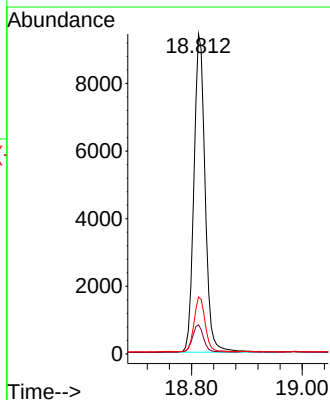
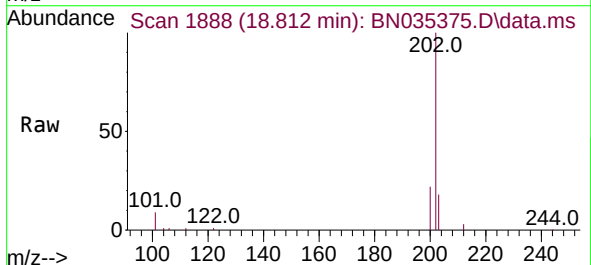
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDCCC0.4EC

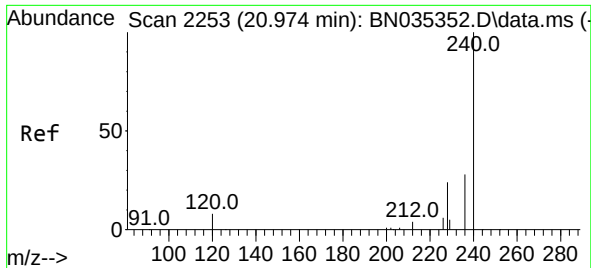
Tgt Ion:212 Resp: 10104  
Ion Ratio Lower Upper  
212 100  
106 11.1 9.2 13.8  
104 6.3 5.3 7.9



#28  
Fluoranthene  
Concen: 0.373 ng  
RT: 18.812 min Scan# 1888  
Delta R.T. -0.005 min  
Lab File: BN035375.D  
Acq: 28 Nov 2024 09:02

Tgt Ion:202 Resp: 13216  
Ion Ratio Lower Upper  
202 100  
101 8.6 7.4 11.0  
203 17.0 13.7 20.5

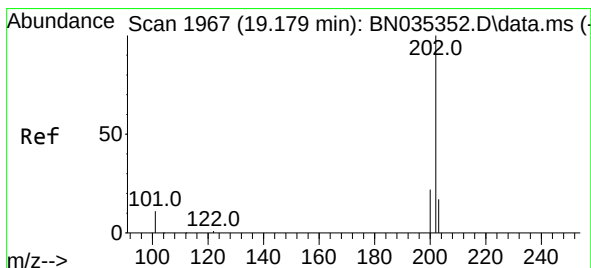
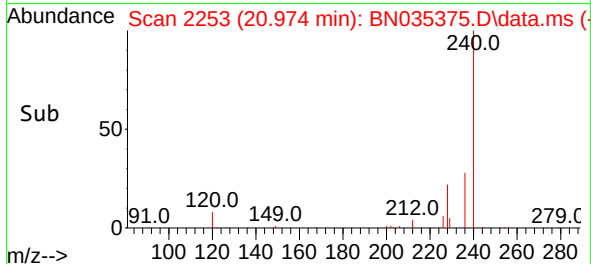
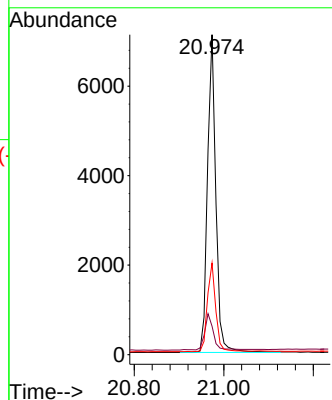
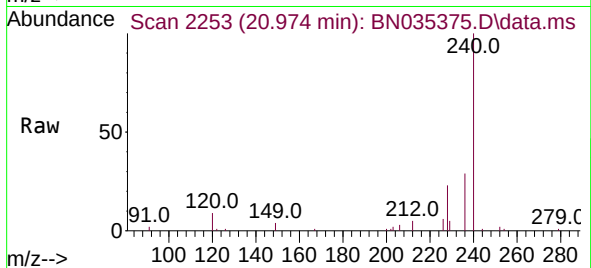




#29  
Chrysene-d12  
Concen: 0.400 ng  
RT: 20.974 min Scan# 21  
Delta R.T. 0.000 min  
Lab File: BN035375.D  
Acq: 28 Nov 2024 09:02

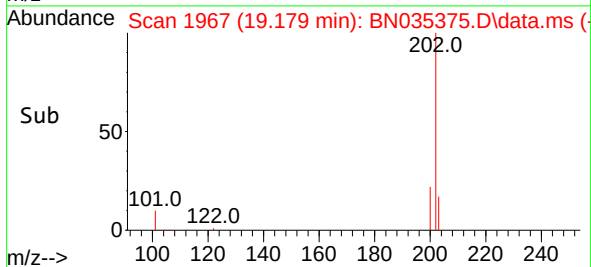
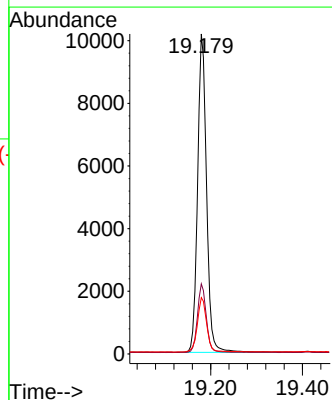
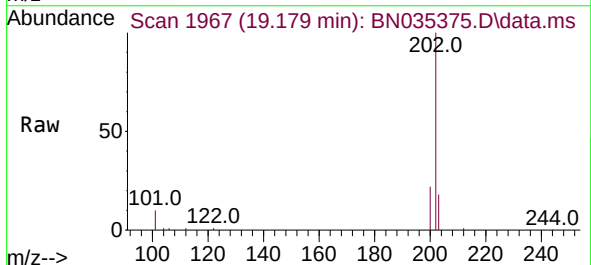
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDCCC0.4EC

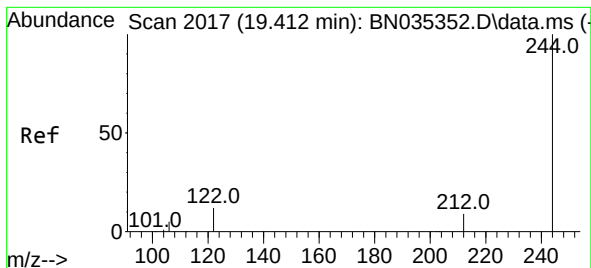
Tgt Ion:240 Resp: 9222  
Ion Ratio Lower Upper  
240 100  
120 8.9 7.9 11.9  
236 28.6 22.9 34.3



#30  
Pyrene  
Concen: 0.403 ng  
RT: 19.179 min Scan# 1967  
Delta R.T. 0.000 min  
Lab File: BN035375.D  
Acq: 28 Nov 2024 09:02

Tgt Ion:202 Resp: 13731  
Ion Ratio Lower Upper  
202 100  
200 21.3 17.0 25.4  
203 17.8 14.3 21.5





#31

Terphenyl-d14

Concen: 0.399 ng

RT: 19.412 min Scan# 2017

Delta R.T. 0.000 min

Lab File: BN035375.D

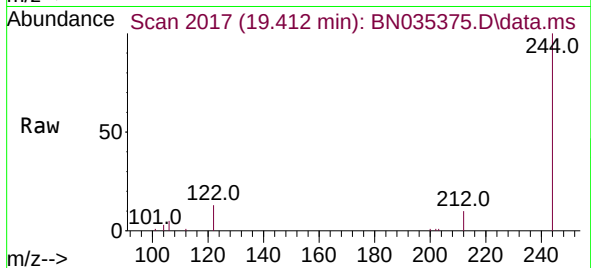
Acq: 28 Nov 2024 09:02

Instrument :

BNA\_N

ClientSampleId :

SSTDCCC0.4EC



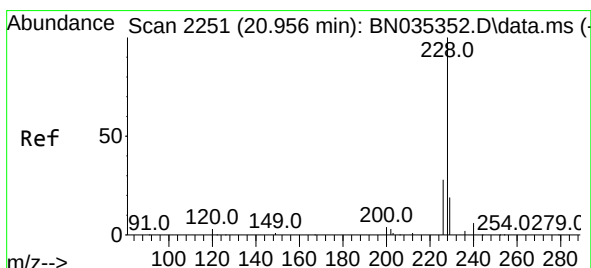
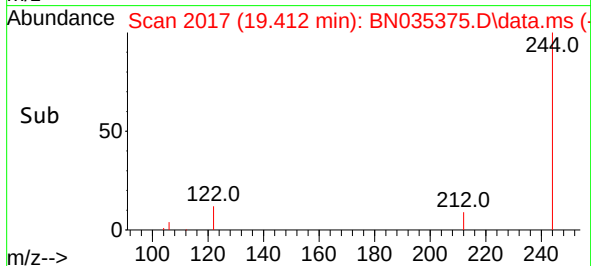
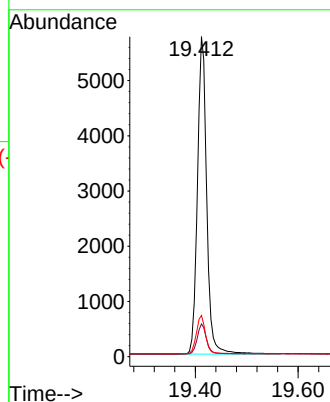
Tgt Ion:244 Resp: 7255

Ion Ratio Lower Upper

244 100

212 10.3 8.1 12.1

122 12.9 10.3 15.5



#32

Benzo(a)anthracene

Concen: 0.372 ng

RT: 20.956 min Scan# 2251

Delta R.T. 0.000 min

Lab File: BN035375.D

Acq: 28 Nov 2024 09:02

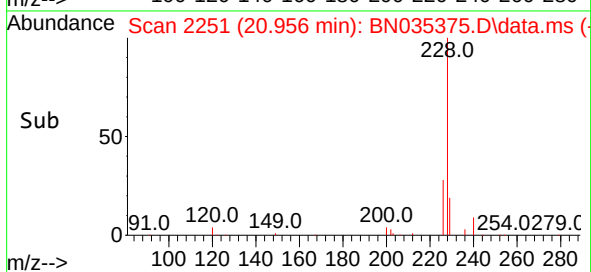
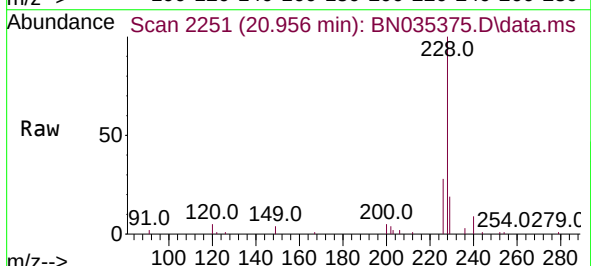
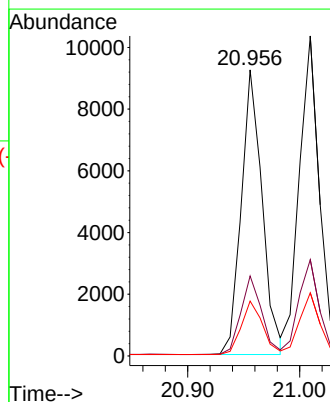
Tgt Ion:228 Resp: 11985

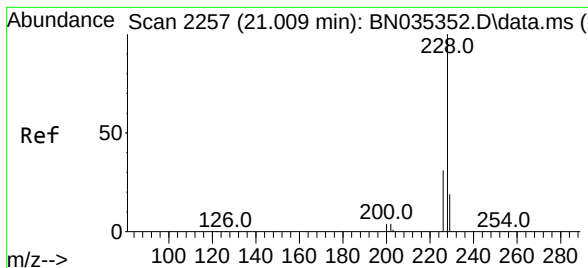
Ion Ratio Lower Upper

228 100

226 28.0 22.5 33.7

229 19.2 15.8 23.8





#33

Chrysene

Concen: 0.402 ng

RT: 21.009 min Scan# 21

Delta R.T. 0.000 min

Lab File: BN035375.D

Acq: 28 Nov 2024 09:02

Instrument :

BNA\_N

ClientSampleId :

SSTDCCC0.4EC

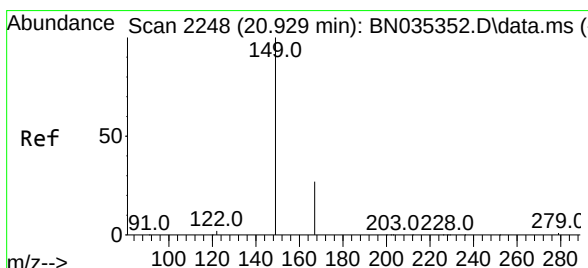
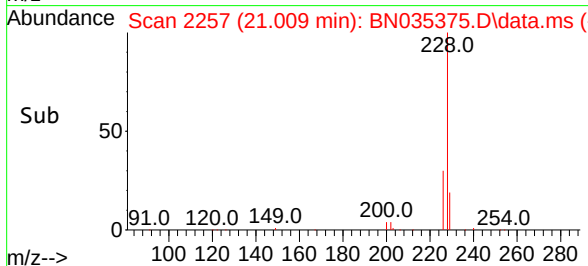
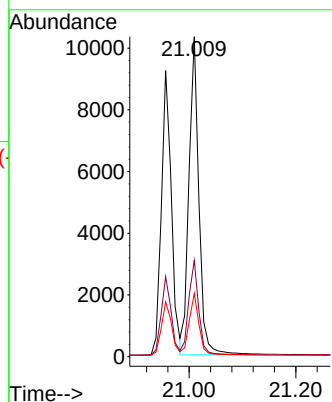
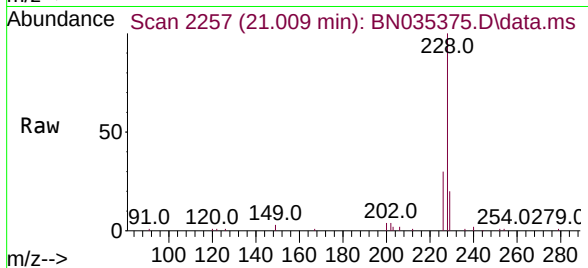
Tgt Ion:228 Resp: 13365

Ion Ratio Lower Upper

228 100

226 30.1 24.6 37.0

229 19.8 15.9 23.9



#34

Bis(2-ethylhexyl)phthalate

Concen: 0.344 ng

RT: 20.929 min Scan# 2248

Delta R.T. 0.000 min

Lab File: BN035375.D

Acq: 28 Nov 2024 09:02

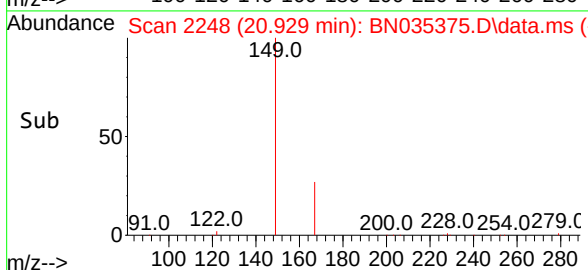
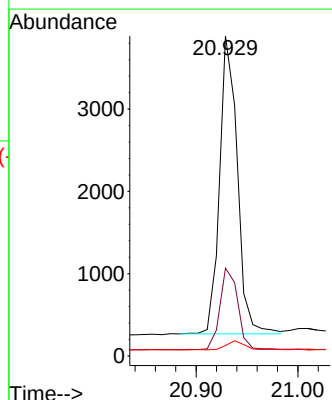
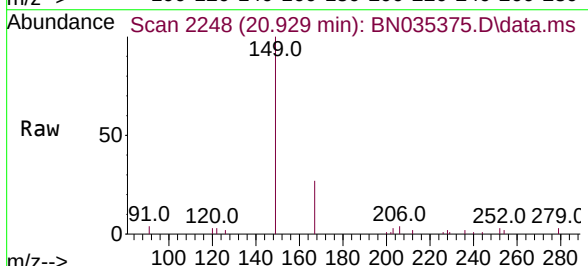
Tgt Ion:149 Resp: 4380

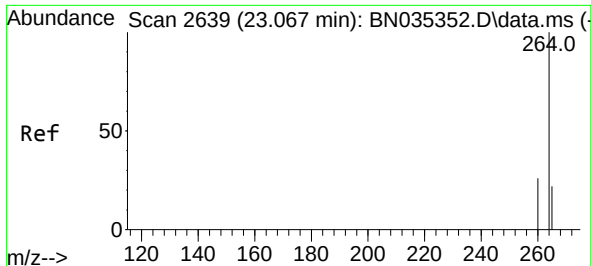
Ion Ratio Lower Upper

149 100

167 27.8 22.2 33.4

279 3.3 2.7 4.1

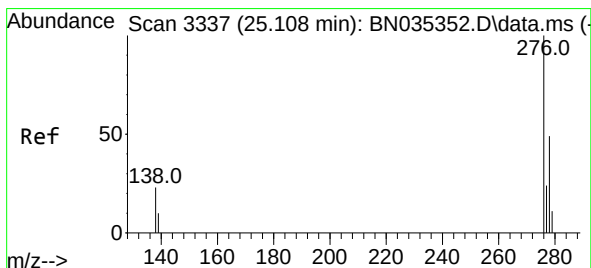
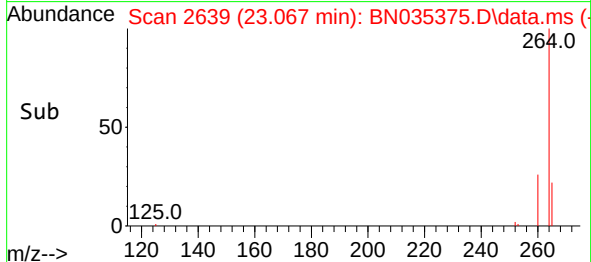
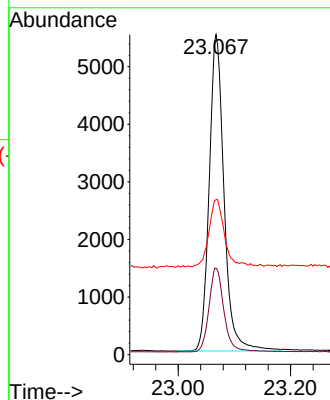
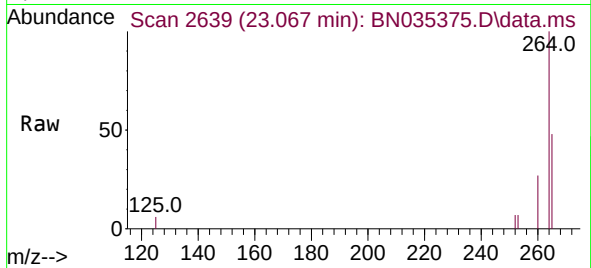




#35  
Perylene-d12  
Concen: 0.400 ng  
RT: 23.067 min Scan# 20  
Delta R.T. 0.000 min  
Lab File: BN035375.D  
Acq: 28 Nov 2024 09:02

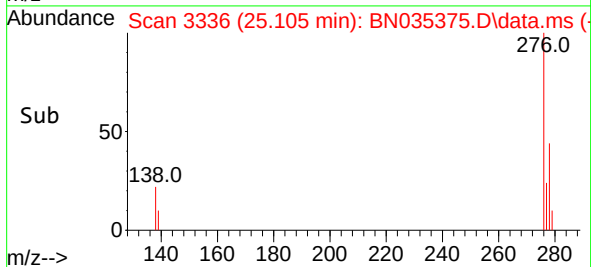
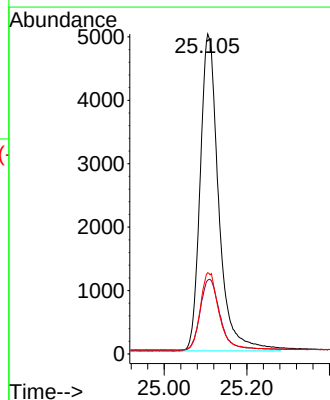
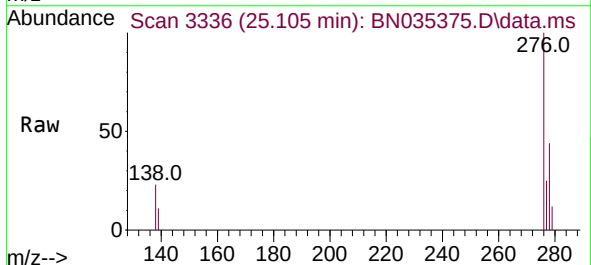
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDCCC0.4EC

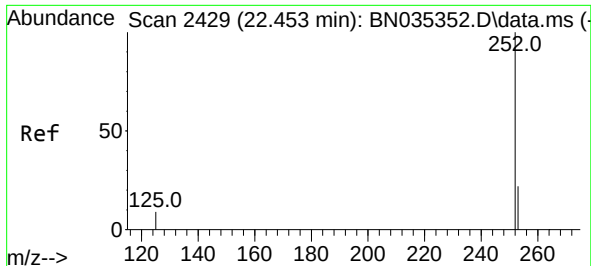
Tgt Ion:264 Resp: 10081  
Ion Ratio Lower Upper  
264 100  
260 27.0 21.4 32.2  
265 48.5 40.2 60.4



#36  
Indeno(1,2,3-cd)pyrene  
Concen: 0.394 ng  
RT: 25.105 min Scan# 3336  
Delta R.T. -0.003 min  
Lab File: BN035375.D  
Acq: 28 Nov 2024 09:02

Tgt Ion:276 Resp: 15538  
Ion Ratio Lower Upper  
276 100  
138 23.6 19.4 29.0  
277 24.8 19.8 29.6

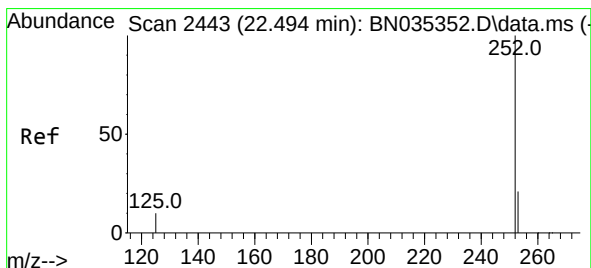
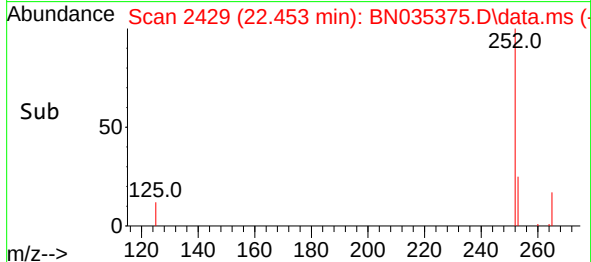
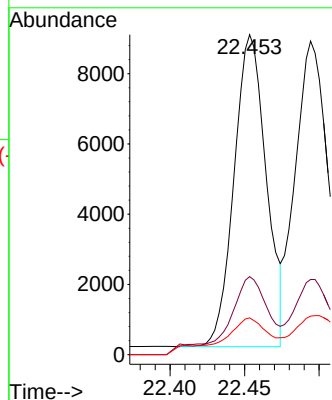
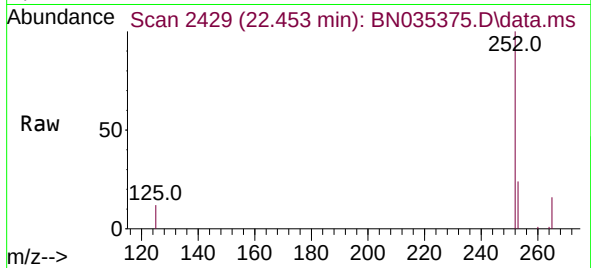




#37  
Benzo(b)fluoranthene  
Concen: 0.361 ng  
RT: 22.453 min Scan# 2429  
Delta R.T. 0.000 min  
Lab File: BN035375.D  
Acq: 28 Nov 2024 09:02

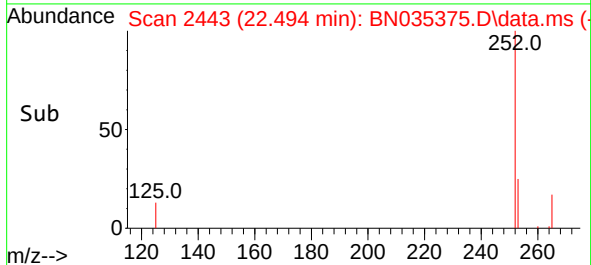
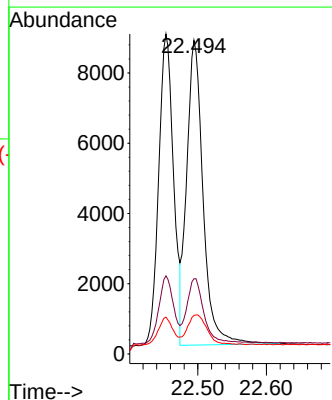
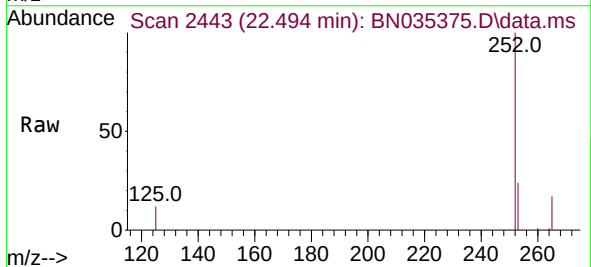
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDCCC0.4EC

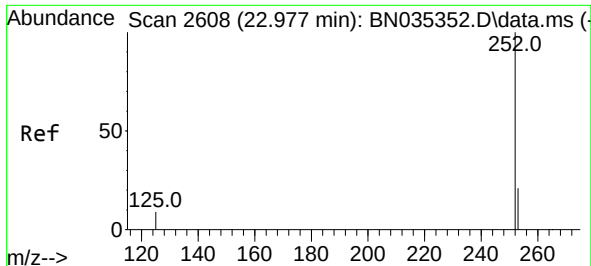
Tgt Ion:252 Resp: 13327  
Ion Ratio Lower Upper  
252 100  
253 24.4 19.6 29.4  
125 11.5 9.6 14.4



#38  
Benzo(k)fluoranthene  
Concen: 0.397 ng  
RT: 22.494 min Scan# 2443  
Delta R.T. 0.000 min  
Lab File: BN035375.D  
Acq: 28 Nov 2024 09:02

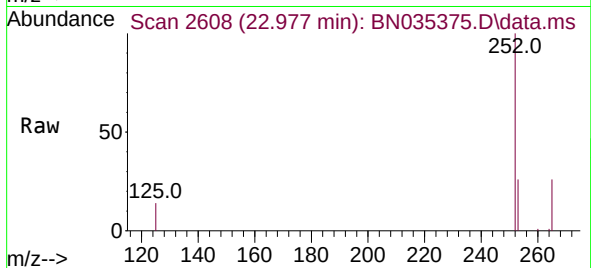
Tgt Ion:252 Resp: 14406  
Ion Ratio Lower Upper  
252 100  
253 24.0 19.5 29.3  
125 12.3 10.2 15.4



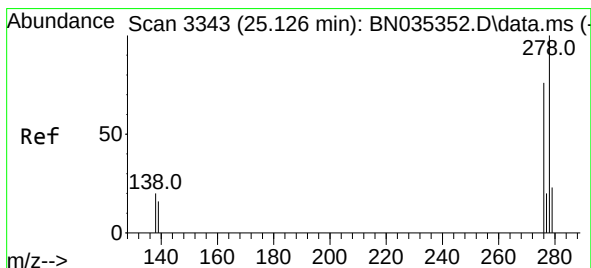
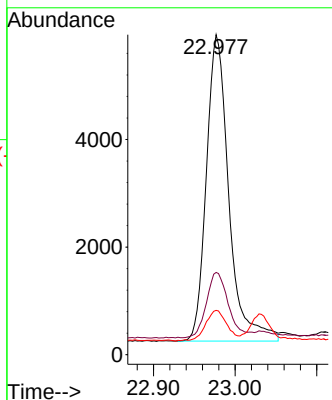


#39  
Benzo(a)pyrene  
Concen: 0.359 ng  
RT: 22.977 min Scan# 20  
Delta R.T. 0.000 min  
Lab File: BN035375.D  
Acq: 28 Nov 2024 09:02

Instrument :  
BNA\_N  
ClientSampleId :  
SSTDCCC0.4EC

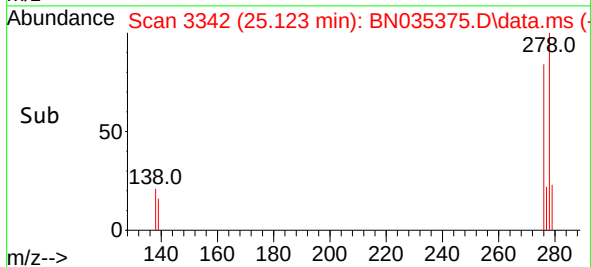
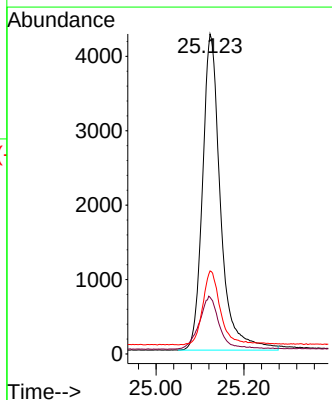
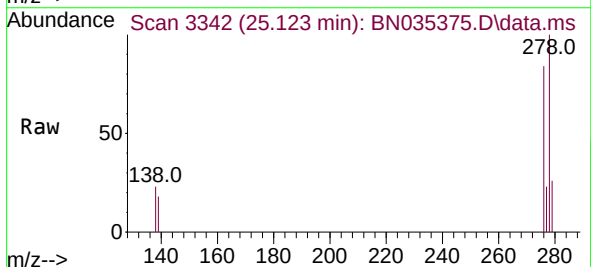


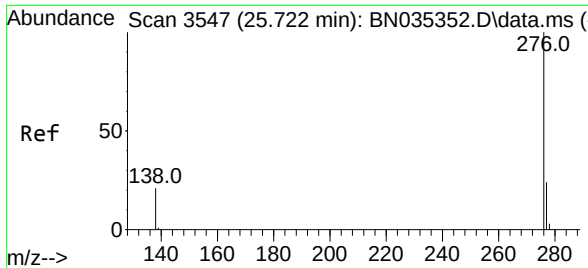
|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 252   | Resp: | 10891 |
| Ion Ratio | Lower | Upper |       |
| 252       | 100   |       |       |
| 253       | 25.7  | 20.2  | 30.4  |
| 125       | 13.8  | 10.9  | 16.3  |



#40  
Dibenzo(a,h)anthracene  
Concen: 0.389 ng  
RT: 25.123 min Scan# 3342  
Delta R.T. -0.003 min  
Lab File: BN035375.D  
Acq: 28 Nov 2024 09:02

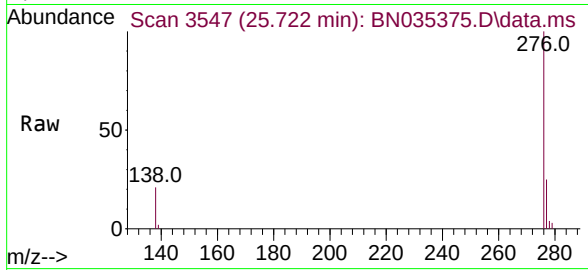
|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 278   | Resp: | 12092 |
| Ion Ratio | Lower | Upper |       |
| 278       | 100   |       |       |
| 139       | 17.7  | 14.2  | 21.4  |
| 279       | 26.0  | 20.5  | 30.7  |





#41  
 Benzo(g,h,i)perylene  
 Concen: 0.385 ng  
 RT: 25.722 min Scan# 31  
 Delta R.T. 0.000 min  
 Lab File: BN035375.D  
 Acq: 28 Nov 2024 09:02

Instrument :  
 BNA\_N  
 ClientSampleId :  
 SSTDCCC0.4EC



|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 276   | Resp: | 12501 |
| Ion      | Ratio | Lower | Upper |
| 276      | 100   |       |       |
| 277      | 25.1  | 19.9  | 29.9  |
| 138      | 21.3  | 17.8  | 26.8  |

