

**DATA PACKAGE**  
**SEMI-VOLATILE ORGANICS**

**PROJECT NAME : NJ WASTE WATER PT**

**ALLIANCE TECHNICAL GROUP, LLC - NEWARK**

**284 Sheffiled Stree**

**Suite 1**

**Mountainside, NJ - 07092**

**Phone No: 908-789-8900**

**ORDER ID : Q2181**

**ATTENTION : Mohammad Ahmed**



**Laboratory Certification ID # 20012**



|                                             |     |
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## Cover Page

**Order ID :** Q2181

**Project ID :** NJ Waste Water PT

**Client :** Alliance Technical Group, LLC - Newark

**Lab Sample Number**

Q2181-01  
Q2181-02

**Client Sample Number**

38072-062624  
38073-032124

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

Signature :

**APPROVED**

*By Nimisha Pandya, QA/QC Supervisor at 10:08 am, Jun 23, 2025*

Date: 6/19/2025

NYDOH CERTIFICATION NO - 11376

NJDEP CERTIFICATION NO - 20012



## **CASE NARRATIVE**

**Alliance Technical Group, LLC - Newark**

**Project Name: NJ Waste Water PT**

**Project # N/A**

**Order ID # Q2181**

**Test Name: SVOCMS Group5**

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

2 Water samples were received on 06/02/2025.

### **B. Parameters**

According to the Chain of Custody document, the following analyses were requested: SVOCMS Group2 and SVOCMS Group5. This data package contains results for SVOCMS Group5.

### **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 SVOCMS Group5 was based on method 8270-Modified and extraction was done based on method 3510.

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

The Holding Times were met for all analysis.

The Surrogate recoveries met the acceptable criteria.

The Internal Standards Areas met the acceptable requirements.

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 Initial Calibration met the requirements .

The Continuous Calibration met the requirements .

The Tuning criteria met requirements.

Sample 38072-062624 was diluted due to high concentration.

### **E. Additional Comments:**

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

.

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



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for all compounds using Linear Regression when the %RSD value for a compound is > 20% for the Initial Calibration curve for SW-846 analysis.

**F. Manual Integration Comments:**

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

---

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

**APPROVED**

*By Nimisha Pandya, QA/QC Supervisor at 10:08 am, Jun 23, 2025*

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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>U</b>  | 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.                                                                                                                                                                                                                                                                                      |
| <b>ND</b> | Indicates the analyte was analyzed for, but not detected                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>J</b>  | Indicates an estimated value. This flag is used: <ul style="list-style-type: none"> <li>(1) When estimating a concentration for a tentatively identified compound (library search hits, where a 1:1 response is assumed.)</li> <li>(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.</li> </ul> |
| <b>B</b>  | Indicates the analyte was found in the blank as well as the sample report as “12 B”.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>E</b>  | Indicates the analyte ‘s concentration exceeds the calibrated range of the instrument for that specific analysis.                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>D</b>  | This flag identifies all compounds identified in an analysis at a secondary dilution factor.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>P</b>  | 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”.                                                                                                                                                                                                                                                                                                                                                                             |
| <b>N</b>  | 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.                                                                                                                                                                                                                                                                       |
| <b>A</b>  | This flag indicates that a Tentatively Identified Compound is a suspected aldol-condensation product.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>Q</b>  | Indicates the LCS did not meet the control limits requirements                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |

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

ORDER ID: Q2181

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.<br><br>The Initial Calibration met the requirements .<br><br>The Continuous Calibration met the requirements .                                                                                                                                                      |    |    | ✓   |
| 6.  | Blank Contamination - If yes, list compounds and concentrations in each blank:                                                                                                                                                                                                                      |    | ✓  |     |
| 7.  | Surrogate Recoveries Meet Criteria<br><br>If not met, list those compounds and their recoveries which fall outside the acceptable<br>ranges.<br><br>The Surrogate recoveries met the acceptable criteria.                                                                                           |    | ✓  |     |
| 8.  | Matrix Spike/Matrix Spike Duplicate Recoveries Meet Criteria<br><br>If not met, list those compounds and their recoveries which fall outside the acceptable<br>range.<br><br>The Blank Spike met requirements for all samples .<br><br>The Blank Spike Duplicate met requirements for all samples . |    |    | ✓   |
| 9.  | Internal Standard Area/Retention Time Shift Meet Criteria<br><br>Comments:                                                                                                                                                                                                                          |    |    | ✓   |
| 10. | Extraction Holding Time Met<br><br>If not met, list number of days exceeded for each sample:                                                                                                                                                                                                        |    |    | ✓   |

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

|                                                           | NA | NO | YES |
|-----------------------------------------------------------|----|----|-----|
| 11. Analysis Holding Time Met                             |    |    | ✓   |
| If not met, list number of days exceeded for each sample: |    |    |     |

ADDITIONAL COMMENTS:

Sample 38072-062624 was diluted due to high concentration.

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

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

**REVIEWED**

By Sohil Jodhani, QA/QC Director at 10:03 am, Jun 23, 2025

## APPENDIX A

### QA REVIEW GENERAL DOCUMENTATION

Project #: Q2181

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: 06/19/2025

## LAB CHRONICLE

|                 |                                        |                   |                     |
|-----------------|----------------------------------------|-------------------|---------------------|
| <b>OrderID:</b> | Q2181                                  | <b>OrderDate:</b> | 6/2/2025 2:16:00 PM |
| <b>Client:</b>  | Alliance Technical Group, LLC - Newark | <b>Project:</b>   | NJ Waste Water PT   |
| <b>Contact:</b> | Mohammad Ahmed                         | <b>Location:</b>  | QA Office           |

| LabID             | ClientID              | Matrix       | Test          | Method        | Sample Date     | Prep Date | Anal Date | Received        |
|-------------------|-----------------------|--------------|---------------|---------------|-----------------|-----------|-----------|-----------------|
| <b>Q2181-01</b>   | <b>38072-062624</b>   | <b>Water</b> | SVOCMS Group5 | 8270-Modified | <b>05/30/25</b> | 06/02/25  | 06/03/25  | <b>06/02/25</b> |
| <b>Q2181-01DL</b> | <b>38072-062624DL</b> | <b>Water</b> | SVOCMS Group5 | 8270-Modified | <b>05/30/25</b> | 06/02/25  | 06/03/25  | <b>06/02/25</b> |
| <b>Q2181-02</b>   | <b>38073-032124</b>   | <b>Water</b> | SVOCMS Group2 | 8270E         | <b>05/30/25</b> | 06/04/25  | 06/05/25  | <b>06/02/25</b> |



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### Hit Summary Sheet SW-846

**SDG No.:** Q2181  
**Client:** Alliance Technical Group, LLC - Newark

| Sample ID                         | Client ID      |       | Parameter                   | Concentration | C | MDL           | RDL | Units |
|-----------------------------------|----------------|-------|-----------------------------|---------------|---|---------------|-----|-------|
| <b>Client ID : 38072-062624</b>   |                |       |                             |               |   |               |     |       |
| Q2181-01                          | 38072-062624   | WATER | Acenaphthylene              | 120.000       | E | 0.04          | 0.1 | ug/L  |
|                                   |                |       | <b>Total Svoc :</b>         |               |   | <b>120.00</b> |     |       |
|                                   |                |       | <b>Total Concentration:</b> |               |   | <b>120.00</b> |     |       |
| <b>Client ID : 38072-062624DL</b> |                |       |                             |               |   |               |     |       |
| Q2181-01DL                        | 38072-062624DL | WATER | Acenaphthylene              | 120.000       | D | 1.9           | 5   | ug/L  |
|                                   |                |       | <b>Total Svoc :</b>         |               |   | <b>120.00</b> |     |       |
|                                   |                |       | <b>Total Concentration:</b> |               |   | <b>120.00</b> |     |       |



# QC SUMMARY

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### Surrogate Summary

SW-846

SDG No.: Q2181

Client: Alliance Technical Group, LLC - Newark

Analytical Method: 8270-Modified

| Lab Sample ID | Client ID      | Parameter               | Spike (PPM) | Result (PPM) | Recovery (%) | Qual | Limits (%) |      |
|---------------|----------------|-------------------------|-------------|--------------|--------------|------|------------|------|
|               |                |                         |             |              |              |      | Low        | High |
| PB168238BL    | PB168238BL     | 2-Methylnaphthalene-d10 | 0.4         | 0.34         | 84           |      | 20         | 139  |
|               |                | Fluoranthene-d10        | 0.4         | 0.34         | 84           |      | 54         | 157  |
|               |                | Nitrobenzene-d5         | 0.4         | 0.34         | 85           |      | 27         | 154  |
|               |                | 2-Fluorobiphenyl        | 0.4         | 0.36         | 91           |      | 30         | 155  |
|               |                | Terphenyl-d14           | 0.4         | 0.37         | 93           |      | 54         | 175  |
| PB168238BS    | PB168238BS     | 2-Methylnaphthalene-d10 | 0.4         | 0.38         | 96           |      | 20         | 139  |
|               |                | Fluoranthene-d10        | 0.4         | 0.30         | 75           |      | 54         | 157  |
|               |                | Nitrobenzene-d5         | 0.4         | 0.36         | 90           |      | 27         | 154  |
|               |                | 2-Fluorobiphenyl        | 0.4         | 0.36         | 90           |      | 30         | 155  |
|               |                | Terphenyl-d14           | 0.4         | 0.37         | 93           |      | 54         | 175  |
| PB168238BSD   | PB168238BSD    | 2-Methylnaphthalene-d10 | 0.4         | 0.38         | 96           |      | 20         | 139  |
|               |                | Fluoranthene-d10        | 0.4         | 0.30         | 74           |      | 54         | 157  |
|               |                | Nitrobenzene-d5         | 0.4         | 0.36         | 90           |      | 27         | 154  |
|               |                | 2-Fluorobiphenyl        | 0.4         | 0.37         | 91           |      | 30         | 155  |
|               |                | Terphenyl-d14           | 0.4         | 0.36         | 90           |      | 54         | 175  |
| Q2181-01      | 38072-062624   | 2-Methylnaphthalene-d10 | 0.4         | 0.39         | 97           |      | 20         | 139  |
|               |                | Fluoranthene-d10        | 0.4         | 0.41         | 103          |      | 54         | 157  |
|               |                | Nitrobenzene-d5         | 0.4         | 0.40         | 100          |      | 27         | 154  |
|               |                | 2-Fluorobiphenyl        | 0.4         | 0.38         | 94           |      | 30         | 155  |
|               |                | Terphenyl-d14           | 0.4         | 0.37         | 93           |      | 54         | 175  |
| Q2181-01DL    | 38072-062624DL | 2-Methylnaphthalene-d10 | 0.4         | 0.40         | 100          |      | 20         | 139  |
|               |                | Fluoranthene-d10        | 0.4         | 0.45         | 113          |      | 54         | 157  |
|               |                | Nitrobenzene-d5         | 0.4         | 0.45         | 113          |      | 27         | 154  |
|               |                | 2-Fluorobiphenyl        | 0.4         | 0.40         | 100          |      | 30         | 155  |
|               |                | Terphenyl-d14           | 0.4         | 0.45         | 113          |      | 54         | 175  |

## Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q2181

Client: Alliance Technical Group, LLC - Newark

Analytical Method: 8270-Modified DataFile: BN037168.D

| Lab Sample ID | Parameter      | Spike | Result | Unit | Rec | RPD | Qual | RPD  | Low | Limits | RPD |
|---------------|----------------|-------|--------|------|-----|-----|------|------|-----|--------|-----|
|               |                |       |        |      |     |     |      | Qual |     | High   |     |
| PB168238BS    | Acenaphthylene | 0.4   | 0.39   | ug/L | 98  |     |      |      | 60  | 119    |     |

## Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q2181

Client: Alliance Technical Group, LLC - Newark

Analytical Method: 8270-Modified DataFile: BN037169.D

| Lab Sample ID | Parameter      | Spike | Result | Unit | Rec | RPD | Qual | RPD  | Low | Limits | RPD |
|---------------|----------------|-------|--------|------|-----|-----|------|------|-----|--------|-----|
|               |                |       |        |      |     |     |      | Qual |     | High   |     |
| PB168238BSD   | Acenaphthylene | 0.4   | 0.39   | ug/L | 98  | 0   |      |      | 60  | 119    | 20  |

4B

SEMIVOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

PB168238BL

Lab Name: CHEMTECH

Contract: ALLI03

Lab Code: CHEM Case No.: Q2181

SAS No.: Q2181 SDG NO.: Q2181

Lab File ID: BN037167.D

Lab Sample ID: PB168238BL

Instrument ID: BNA\_N

Date Extracted: 06/02/2025

Matrix: (soil/water) Water

Date Analyzed: 06/04/2025

Level: (low/med) LOW

Time Analyzed: 11:03

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 |
|-------------------|------------------|----------------|------------------|
| PB168238BS        | PB168238BS       | BN037168.D     | 06/04/2025       |
| PB168238BSD       | PB168238BSD      | BN037169.D     | 06/04/2025       |
| 38072-062624      | Q2181-01         | BN037152.D     | 06/03/2025       |

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



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5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK  
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECHContract: ALLI03Lab Code: CHEMSAS No.: Q2181 SDG NO.: Q2181Lab File ID: BN037142.DDFTPP Injection Date: 06/03/2025Instrument ID: BNA\_NDFTPP Injection Time: 10:21

| m/e | ION ABUNDANCE CRITERIA             | % RELATIVE ABUNDANCE |
|-----|------------------------------------|----------------------|
| 51  | 10.0 - 80.0% of mass 198           | 69.8                 |
| 68  | Less than 2.0% of mass 69          | 0.0 ( 0.0 ) 1        |
| 69  | Mass 69 relative abundance         | 58.7                 |
| 70  | Less than 2.0% of mass 69          | 0.3 ( 0.5 ) 1        |
| 127 | 10.0 - 80.0% of mass 198           | 53.9                 |
| 197 | Less than 2.0% of mass 198         | 0.0                  |
| 198 | Base Peak, 100% relative abundance | 100                  |
| 199 | 5.0 to 9.0% of mass 198            | 6.8                  |
| 275 | 10.0 - 60.0% of mass 198           | 24.4                 |
| 365 | Greater than 1% of mass 198        | 4.5                  |
| 441 | Present, but less than mass 443    | 10.3                 |
| 442 | Greater than 50% of mass 198       | 100                  |
| 443 | 15.0 - 24.0% of mass 442           | 12.1 (19.8) 2        |

1-Value is % mass 69

2-Value is % mass 442

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

| EPA<br>SAMPLE NO. | LAB<br>SAMPLE ID | LAB<br>FILE ID | DATE<br>ANALYZED | TIME<br>ANALYZED |
|-------------------|------------------|----------------|------------------|------------------|
| SSTDICC0.1        | SSTDICC0.1       | BN037143.D     | 06/03/2025       | 11:39            |
| SSTDICC0.2        | SSTDICC0.2       | BN037144.D     | 06/03/2025       | 12:15            |
| SSTDICCC0.4       | SSTDICCC0.4      | BN037145.D     | 06/03/2025       | 12:51            |
| SSTDICC0.8        | SSTDICC0.8       | BN037146.D     | 06/03/2025       | 13:26            |
| SSTDICC1.6        | SSTDICC1.6       | BN037147.D     | 06/03/2025       | 14:02            |
| SSTDICC3.2        | SSTDICC3.2       | BN037148.D     | 06/03/2025       | 14:38            |
| SSTDICC5.0        | SSTDICC5.0       | BN037149.D     | 06/03/2025       | 15:14            |
| 38072-062624      | Q2181-01         | BN037152.D     | 06/03/2025       | 17:41            |
| 38072-062624DL    | Q2181-01DL       | BN037153.D     | 06/03/2025       | 18:18            |



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5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK  
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECHContract: ALLI03Lab Code: CHEMSAS No.: Q2181SDG NO.: Q2181Lab File ID: BN037165.DDFTPP Injection Date: 06/04/2025Instrument ID: BNA\_NDFTPP Injection Time: 09:04

| m/e | ION ABUNDANCE CRITERIA             | % RELATIVE ABUNDANCE |
|-----|------------------------------------|----------------------|
| 51  | 10.0 - 80.0% of mass 198           | 76.1                 |
| 68  | Less than 2.0% of mass 69          | 0.4 ( 0.6 ) 1        |
| 69  | Mass 69 relative abundance         | 61.6                 |
| 70  | Less than 2.0% of mass 69          | 0.3 ( 0.5 ) 1        |
| 127 | 10.0 - 80.0% of mass 198           | 55.9                 |
| 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            | 6.8                  |
| 275 | 10.0 - 60.0% of mass 198           | 24.2                 |
| 365 | Greater than 1% of mass 198        | 4.3                  |
| 441 | Present, but less than mass 443    | 8.7                  |
| 442 | Greater than 50% of mass 198       | 100                  |
| 443 | 15.0 - 24.0% of mass 442           | 10.3 ( 20 ) 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       | BN037166.D     | 06/04/2025       | 10:27            |
| PB168238BL        | PB168238BL       | BN037167.D     | 06/04/2025       | 11:03            |
| PB168238BS        | PB168238BS       | BN037168.D     | 06/04/2025       | 12:27            |
| PB168238BSD       | PB168238BSD      | BN037169.D     | 06/04/2025       | 13:03            |

8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: Q2181 SAS No.: Q2181 SDG NO.: Q2181

EPA Sample No.: SSTDICCC0.4 Date Analyzed: 06/03/2025

Lab File ID: BN037145.D Time Analyzed: 12:51

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       | 2099                | 7.59 | 5221                | 10.37  | 2886                | 14.24  |
| UPPER LIMIT       | 4198                | 8.09 | 10442               | 10.872 | 5772                | 14.735 |
| LOWER LIMIT       | 1049.5              | 7.09 | 2610.5              | 9.872  | 1443                | 13.735 |
| EPA SAMPLE NO.    |                     |      |                     |        |                     |        |
| 01 38072-062624   | 1726                | 7.60 | 4746                | 10.37  | 2693                | 14.25  |
| 02 38072-062624DL | 2324                | 7.60 | 6120                | 10.37  | 3333                | 14.23  |

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.: Q2181 SAS No.: Q2181 SDG NO.: Q2181

EPA Sample No.: SSTDICCC0.4 Date Analyzed: 06/03/2025

Lab File ID: BN037145.D Time Analyzed: 12:51

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       | 5446                | 16.984 | 3769                | 21.189 | 3386                | 23.377 |
| UPPER LIMIT       | 10892               | 17.484 | 7538                | 21.689 | 6772                | 23.877 |
| LOWER LIMIT       | 2723                | 16.484 | 1884.5              | 20.689 | 1693                | 22.877 |
| EPA SAMPLE NO.    |                     |        |                     |        |                     |        |
| 01 38072-062624   | 4905                | 16.98  | 3958                | 21.19  | 3402                | 23.37  |
| 02 38072-062624DL | 6288                | 16.98  | 4597                | 21.18  | 3669                | 23.38  |

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.: Q2181 SAS No.: Q2181 SDG NO.: Q2181

EPA Sample No.: SSTDCCC0.4 Date Analyzed: 06/04/2025

Lab File ID: BN037166.D Time Analyzed: 10:27

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    | 2757                | 7.589 | 7191                | 10.37  | 3834                | 14.23  |
| UPPER LIMIT    | 5514                | 8.089 | 14382               | 10.872 | 7668                | 14.734 |
| LOWER LIMIT    | 1378.5              | 7.089 | 3595.5              | 9.872  | 1917                | 13.734 |
| EPA SAMPLE NO. |                     |       |                     |        |                     |        |
| 01 PB168238BL  | 2941                | 7.59  | 7107                | 10.37  | 3690                | 14.25  |
| 02 PB168238BS  | 2103                | 7.59  | 5280                | 10.37  | 2700                | 14.24  |
| 03 PB168238BSD | 2147                | 7.59  | 5350                | 10.37  | 2661                | 14.24  |

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.: Q2181 SAS No.: Q2181 SDG NO.: Q2181

EPA Sample No.: SSTDCCC0.4 Date Analyzed: 06/04/2025

Lab File ID: BN037166.D Time Analyzed: 10:27

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    | 6868                | 16.984 | 4452                | 21.18 | 4092                | 23.374 |
| UPPER LIMIT    | 13736               | 17.484 | 8904                | 21.68 | 8184                | 23.874 |
| LOWER LIMIT    | 3434                | 16.484 | 2226                | 20.68 | 2046                | 22.874 |
| EPA SAMPLE NO. |                     |        |                     |       |                     |        |
| 01 PB168238BL  | 6730                | 16.98  | 4435                | 21.19 | 4132                | 23.37  |
| 02 PB168238BS  | 4608                | 16.98  | 2742                | 21.19 | 2588                | 23.38  |
| 03 PB168238BSD | 4419                | 16.98  | 2674                | 21.19 | 2551                | 23.38  |

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

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14
- 15
- 16
- 17

## Report of Analysis

|                    |                                        |                 |               |
|--------------------|----------------------------------------|-----------------|---------------|
| Client:            | Alliance Technical Group, LLC - Newark | Date Collected: | 05/30/25      |
| Project:           | NJ Waste Water PT                      | Date Received:  | 06/02/25      |
| Client Sample ID:  | 38072-062624                           | SDG No.:        | Q2181         |
| Lab Sample ID:     | Q2181-01                               | Matrix:         | Water         |
| Analytical Method: | SW8270ESIM                             | % Solid:        | 0             |
| Sample Wt/Vol:     | 1000      Units:    mL                 | Final Vol:      | 1000      uL  |
| Soil Aliquot Vol:  | uL                                     | Test:           | SVOCMS Group5 |
| Extraction Type :  | Decanted :    N                        | Level :         | LOW           |
| Injection Volume : | GPC Factor :    1.0                    | GPC Cleanup :   | N      PH :   |
| Prep Method :      |                                        |                 |               |

|                   |           |                |                |               |
|-------------------|-----------|----------------|----------------|---------------|
| File ID/Qc Batch: | Dilution: | Prep Date      | Date Analyzed  | Prep Batch ID |
| BN037152.D        | 1         | 06/02/25 14:27 | 06/03/25 17:41 | PB168238      |

| CAS Number                | Parameter               | Conc. | Qualifier | MDL      | LOQ / CRQL | Units    |
|---------------------------|-------------------------|-------|-----------|----------|------------|----------|
| <b>TARGETS</b>            |                         |       |           |          |            |          |
| 208-96-8                  | Acenaphthylene          | 120   | E         | 0.040    | 0.10       | ug/L     |
| <b>SURROGATES</b>         |                         |       |           |          |            |          |
| 7297-45-2                 | 2-Methylnaphthalene-d10 | 0.39  |           | 20 - 139 | 97%        | SPK: 0.4 |
| 93951-69-0                | Fluoranthene-d10        | 0.41  |           | 54 - 157 | 103%       | SPK: 0.4 |
| 4165-60-0                 | Nitrobenzene-d5         | 0.40  |           | 27 - 154 | 100%       | SPK: 0.4 |
| 321-60-8                  | 2-Fluorobiphenyl        | 0.38  |           | 30 - 155 | 94%        | SPK: 0.4 |
| 1718-51-0                 | Terphenyl-d14           | 0.37  |           | 54 - 175 | 93%        | SPK: 0.4 |
| <b>INTERNAL STANDARDS</b> |                         |       |           |          |            |          |
| 3855-82-1                 | 1,4-Dichlorobenzene-d4  | 1730  |           | 7.597    |            |          |
| 1146-65-2                 | Naphthalene-d8          | 4750  |           | 10.372   |            |          |
| 15067-26-2                | Acenaphthene-d10        | 2690  |           | 14.245   |            |          |
| 1517-22-2                 | Phenanthrene-d10        | 4910  |           | 16.984   |            |          |
| 1719-03-5                 | Chrysene-d12            | 3960  |           | 21.189   |            |          |
| 1520-96-3                 | Perylene-d12            | 3400  |           | 23.374   |            |          |

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\BN060325\  
 Data File : BN037152.D  
 Acq On : 03 Jun 2025 17:41  
 Operator : RC/JU  
 Sample : Q2181-01  
 Misc :  
 ALS Vial : 13 Sample Multiplier: 1

Instrument :  
 BNA\_N  
 ClientSampleId :  
 38072-062624

Quant Time: Jun 04 02:47:41 2025  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\8270-SIM-BN060325.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Wed Jun 04 01:52:03 2025  
 Response via : Initial Calibration

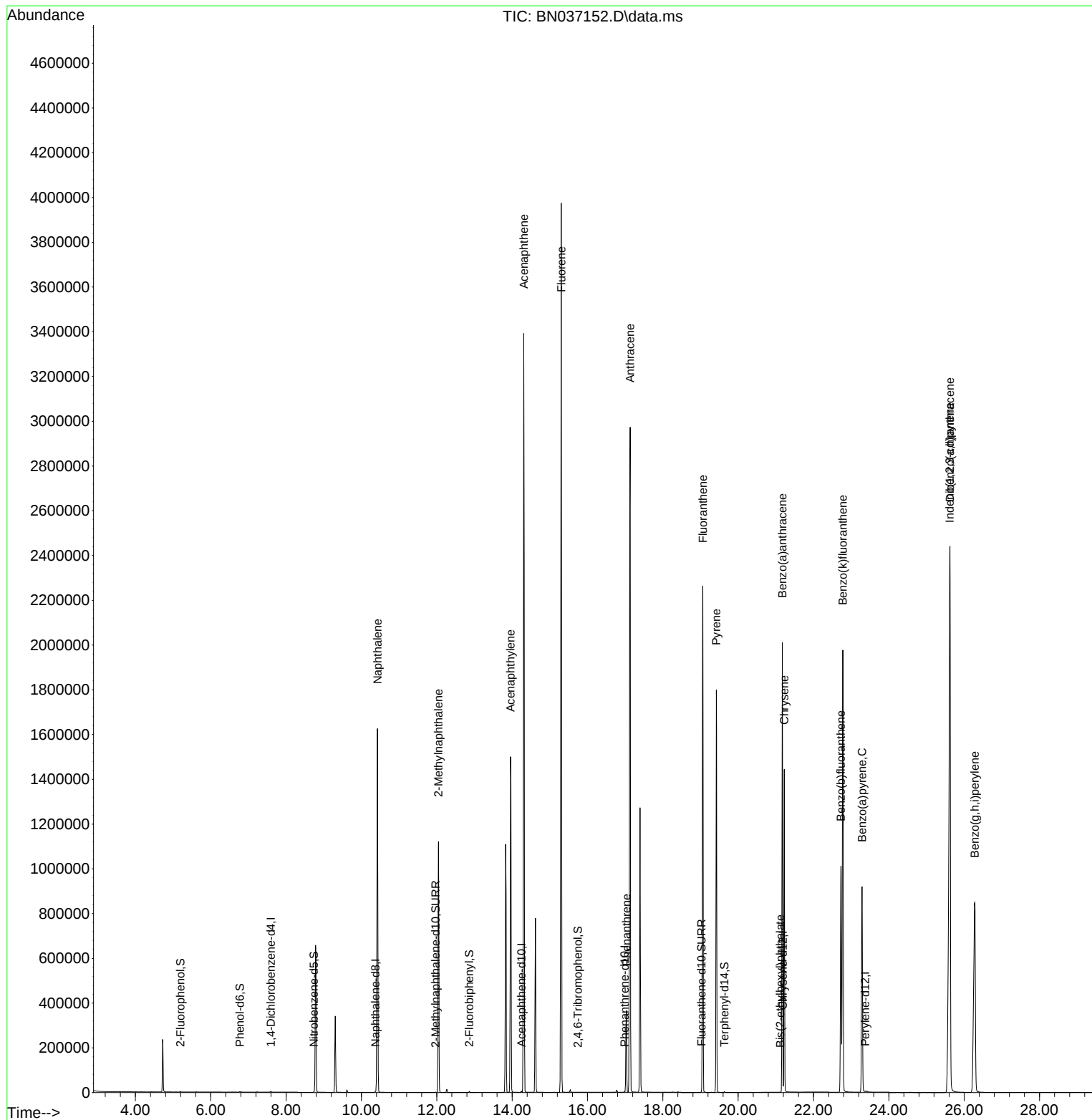
| Compound                      | R.T.   | QIon | Response | Conc    | Units | Dev(Min) |
|-------------------------------|--------|------|----------|---------|-------|----------|
| Internal Standards            |        |      |          |         |       |          |
| 1) 1,4-Dichlorobenzene-d4     | 7.597  | 152  | 1726     | 0.400   | ng    | 0.00     |
| 7) Naphthalene-d8             | 10.372 | 136  | 4746     | 0.400   | ng    | 0.00     |
| 13) Acenaphthene-d10          | 14.245 | 164  | 2693     | 0.400   | ng    | 0.01     |
| 19) Phenanthrene-d10          | 16.984 | 188  | 4905     | 0.400   | ng    | 0.00     |
| 29) Chrysene-d12              | 21.189 | 240  | 3958     | 0.400   | ng    | 0.00     |
| 35) Perylene-d12              | 23.374 | 264  | 3402     | 0.400   | ng    | 0.00     |
| System Monitoring Compounds   |        |      |          |         |       |          |
| 4) 2-Fluorophenol             | 5.192  | 112  | 1488     | 0.349   | ng    | 0.00     |
| 5) Phenol-d6                  | 6.773  | 99   | 1874     | 0.362   | ng    | 0.00     |
| 8) Nitrobenzene-d5            | 8.739  | 82   | 2000     | 0.399   | ng    | 0.00     |
| 11) 2-Methylnaphthalene-d10   | 11.965 | 152  | 2574     | 0.390   | ng    | 0.00     |
| 14) 2,4,6-Tribromophenol      | 15.742 | 330  | 296      | 0.273   | ng    | 0.00     |
| 15) 2-Fluorobiphenyl          | 12.863 | 172  | 4344     | 0.378   | ng    | 0.00     |
| 27) Fluoranthene-d10          | 19.026 | 212  | 5165     | 0.414   | ng    | 0.00     |
| 31) Terphenyl-d14             | 19.635 | 244  | 3468     | 0.372   | ng    | 0.00     |
| Target Compounds              |        |      |          |         |       |          |
| 9) Naphthalene                | 10.426 | 128  | 1916960  | 139.998 | ng    | 96       |
| 12) 2-Methylnaphthalene       | 12.047 | 142  | 724960   | 82.603  | ng    | 97       |
| 16) Acenaphthylene            | 13.956 | 152  | 1626337  | 123.178 | ng    | 100      |
| 17) Acenaphthene              | 14.309 | 154  | 1602919  | 186.976 | ng    | 94       |
| 18) Fluorene                  | 15.304 | 166  | 2228433  | 197.737 | ng    | 97       |
| 25) Phenanthrene              | 17.033 | 178  | 388800   | 24.466  | ng    | 100      |
| 26) Anthracene                | 17.133 | 178  | 3294514  | 227.200 | ng    | 100      |
| 28) Fluoranthene              | 19.063 | 202  | 2023402  | 115.258 | ng    | 99       |
| 30) Pyrene                    | 19.421 | 202  | 1523102  | 78.833  | ng    | 99       |
| 32) Benzo(a)anthracene        | 21.171 | 228  | 1535854  | 107.198 | ng    | 99       |
| 33) Chrysene                  | 21.224 | 228  | 1025267  | 64.274  | ng    | 99       |
| 34) Bis(2-ethylhexyl)phtha... | 21.117 | 149  | 565      | 0.063   | ng    | # 97     |
| 36) Indeno(1,2,3-cd)pyrene    | 25.617 | 276  | 2900718  | 214.315 | ng    | 99       |
| 37) Benzo(b)fluoranthene      | 22.728 | 252  | 1250366  | 91.051  | ng    | # 88     |
| 38) Benzo(k)fluoranthene      | 22.778 | 252  | 2348043  | 167.474 | ng    | # 88     |
| 39) Benzo(a)pyrene            | 23.290 | 252  | 1221520  | 106.192 | ng    | # 82     |
| 40) Dibenzo(a,h)anthracene    | 25.623 | 278  | 1780212  | 170.556 | ng    | # 86     |
| 41) Benzo(g,h,i)perylene      | 26.280 | 276  | 1847070  | 154.066 | ng    | 96       |

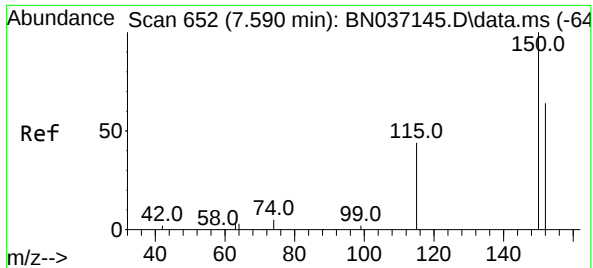
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN060325\  
Data File : BN037152.D  
Acq On : 03 Jun 2025 17:41  
Operator : RC/JU  
Sample : Q2181-01  
Misc :  
ALS Vial : 13 Sample Multiplier: 1

Instrument :  
BNA\_N  
ClientSampleId :  
38072-062624

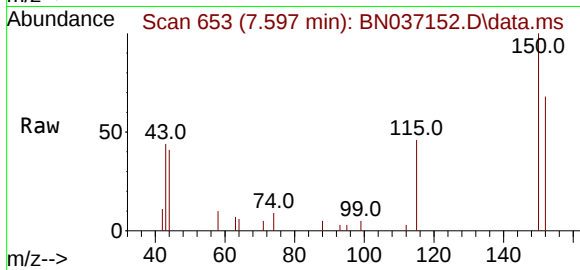
Quant Time: Jun 04 02:47:41 2025  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\8270-SIM-BN060325.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Wed Jun 04 01:52:03 2025  
Response via : Initial Calibration



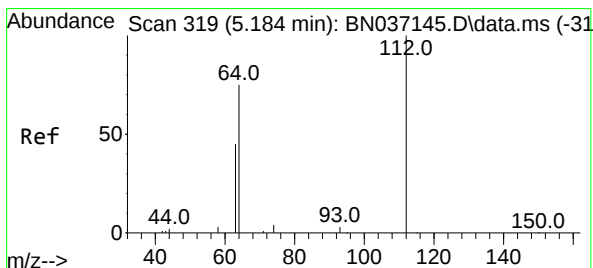
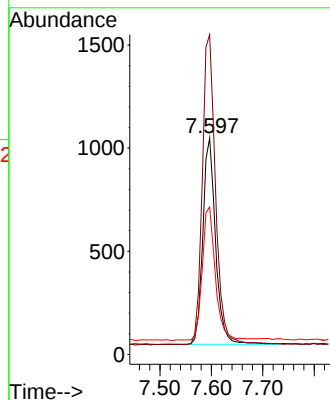
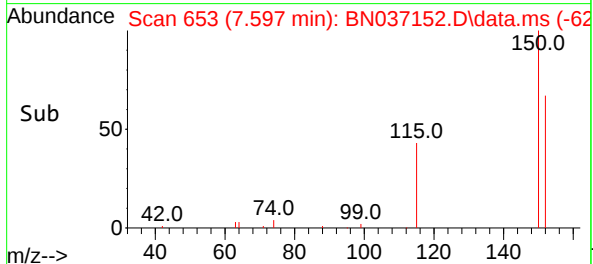


#1  
1,4-Dichlorobenzene-d4  
Concen: 0.400 ng  
RT: 7.597 min Scan# 61  
Delta R.T. 0.007 min  
Lab File: BN037152.D  
Acq: 03 Jun 2025 17:41

Instrument :  
BNA\_N  
ClientSampleId :  
38072-062624

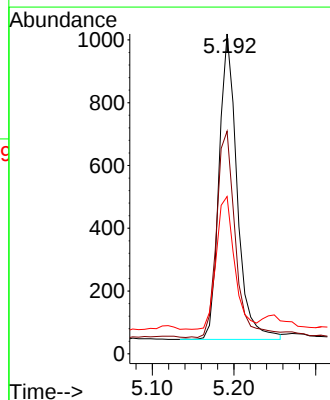
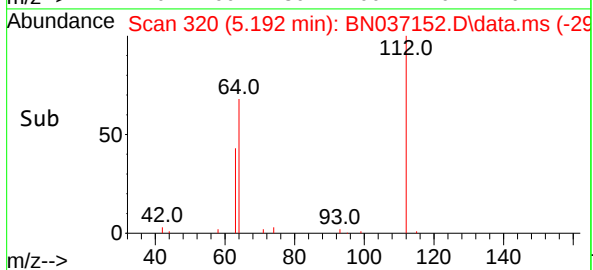
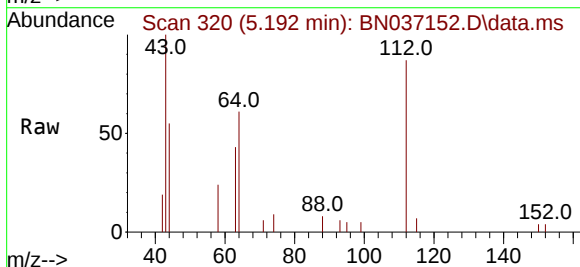


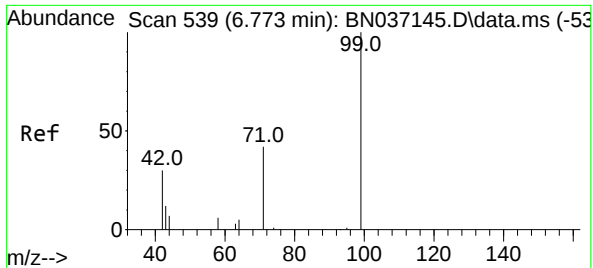
Tgt Ion:152 Resp: 1726  
Ion Ratio Lower Upper  
152 100  
150 147.8 123.2 184.8  
115 68.2 56.6 85.0



#4  
2-Fluorophenol  
Concen: 0.349 ng  
RT: 5.192 min Scan# 320  
Delta R.T. 0.007 min  
Lab File: BN037152.D  
Acq: 03 Jun 2025 17:41

Tgt Ion:112 Resp: 1488  
Ion Ratio Lower Upper  
112 100  
64 73.3 56.3 84.5  
63 44.5 36.2 54.4

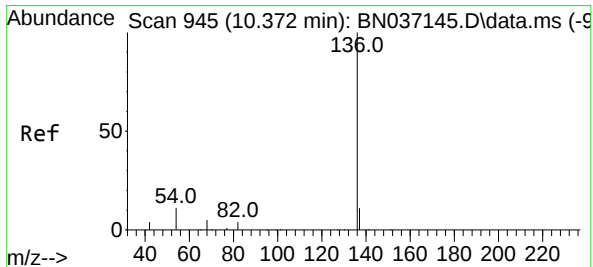
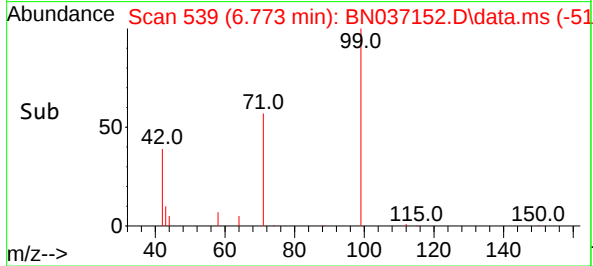
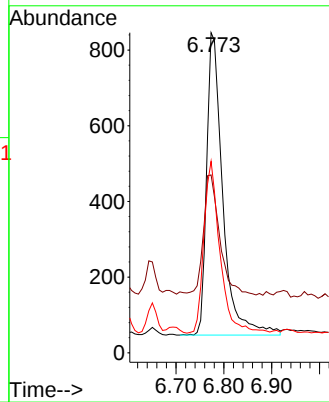
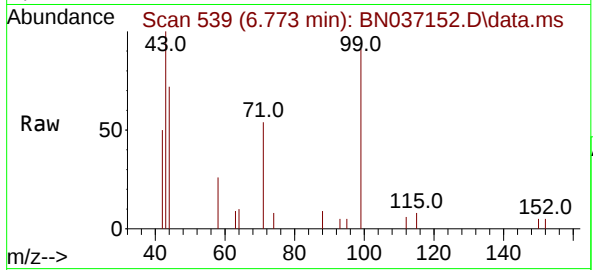




#5  
Phenol-d6  
Concen: 0.362 ng  
RT: 6.773 min Scan# 51  
Delta R.T. -0.000 min  
Lab File: BN037152.D  
Acq: 03 Jun 2025 17:41

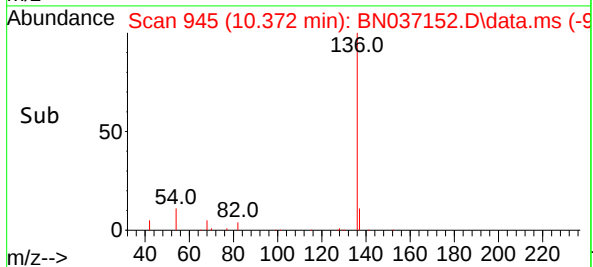
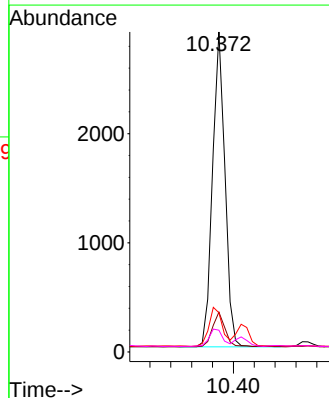
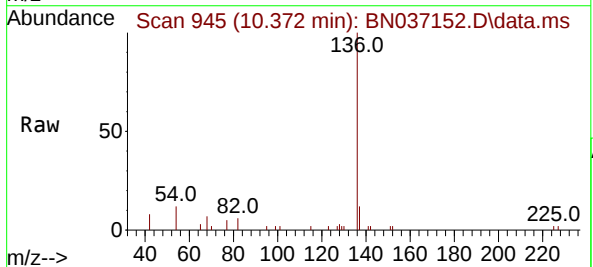
Instrument :  
BNA\_N  
ClientSampleId :  
38072-062624

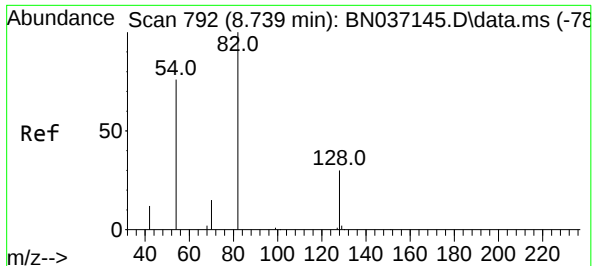
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 99    | Resp: | 1874  |
| Ion      | Ratio | Lower | Upper |
| 99       | 100   |       |       |
| 42       | 39.9  | 31.3  | 46.9  |
| 71       | 56.8  | 38.2  | 57.2  |



#7  
Naphthalene-d8  
Concen: 0.400 ng  
RT: 10.372 min Scan# 945  
Delta R.T. -0.000 min  
Lab File: BN037152.D  
Acq: 03 Jun 2025 17:41

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 136   | Resp: | 4746  |
| Ion      | Ratio | Lower | Upper |
| 136      | 100   |       |       |
| 137      | 12.4  | 9.7   | 14.5  |
| 54       | 12.2  | 9.7   | 14.5  |
| 68       | 6.8   | 5.4   | 8.2   |

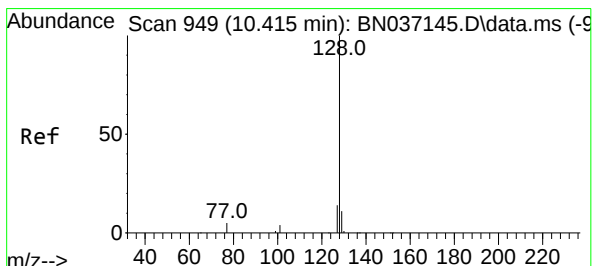
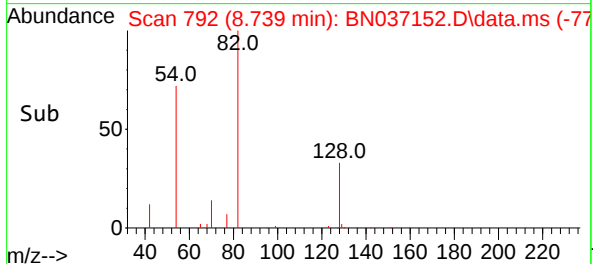
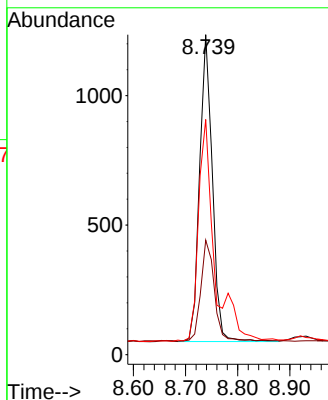
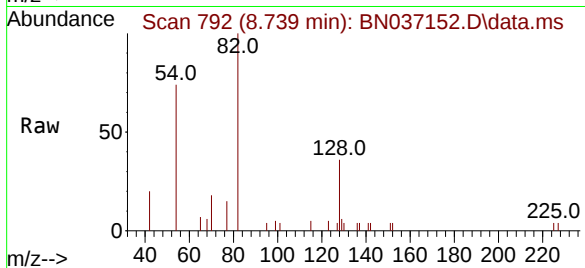




#8  
Nitrobenzene-d5  
Concen: 0.399 ng  
RT: 8.739 min Scan# 792  
Delta R.T. -0.000 min  
Lab File: BN037152.D  
Acq: 03 Jun 2025 17:41

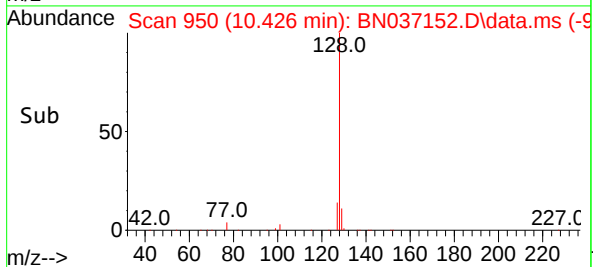
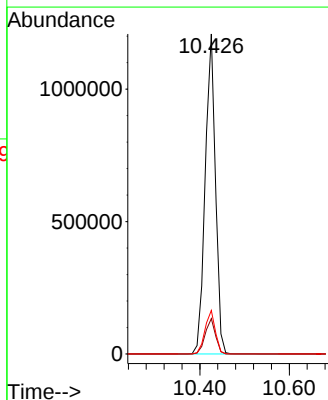
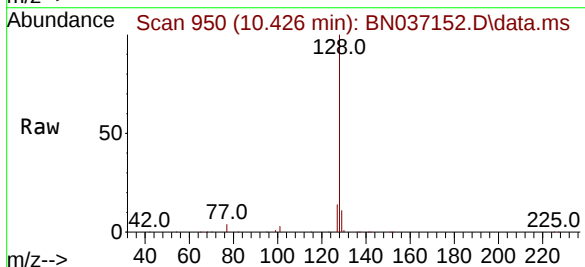
Instrument :  
BNA\_N  
ClientSampleId :  
38072-062624

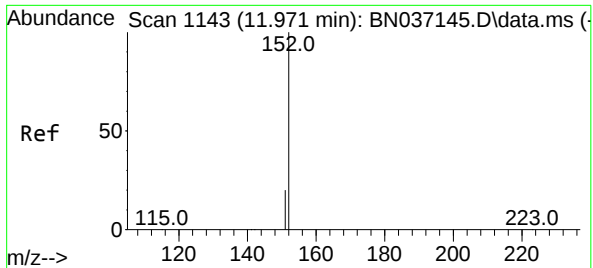
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 82    | Resp: | 2000  |
| Ion      | Ratio | Lower | Upper |
| 82       | 100   |       |       |
| 128      | 35.8  | 26.9  | 40.3  |
| 54       | 73.5  | 61.4  | 92.2  |



#9  
Naphthalene  
Concen: 139.998 ng  
RT: 10.426 min Scan# 950  
Delta R.T. 0.011 min  
Lab File: BN037152.D  
Acq: 03 Jun 2025 17:41

|          |       |       |         |
|----------|-------|-------|---------|
| Tgt Ion: | 128   | Resp: | 1916960 |
| Ion      | Ratio | Lower | Upper   |
| 128      | 100   |       |         |
| 129      | 11.1  | 9.8   | 14.8    |
| 127      | 13.6  | 12.3  | 18.5    |

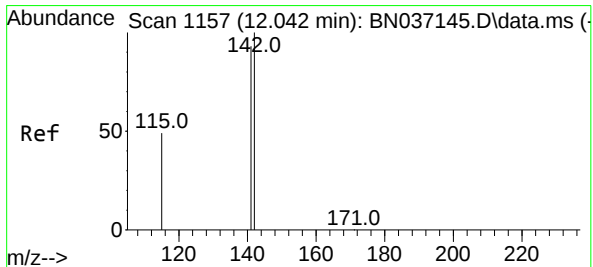
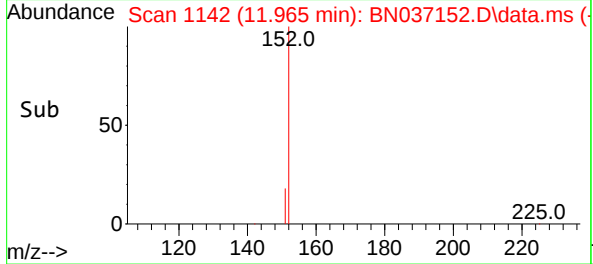
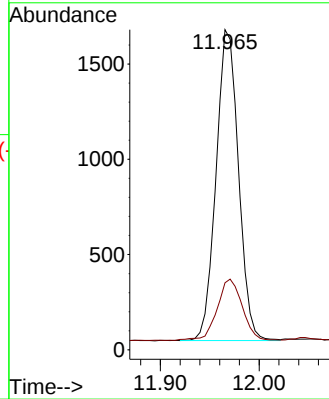
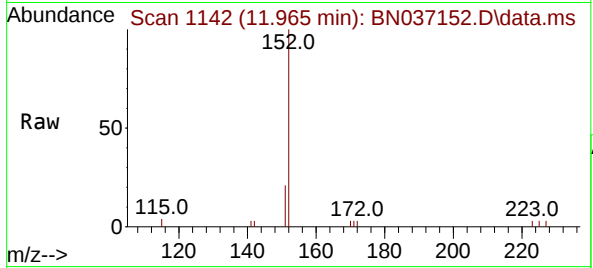




#11  
2-Methylnaphthalene-d10  
Concen: 0.390 ng  
RT: 11.965 min Scan# 1142  
Delta R.T. -0.005 min  
Lab File: BN037152.D  
Acq: 03 Jun 2025 17:41

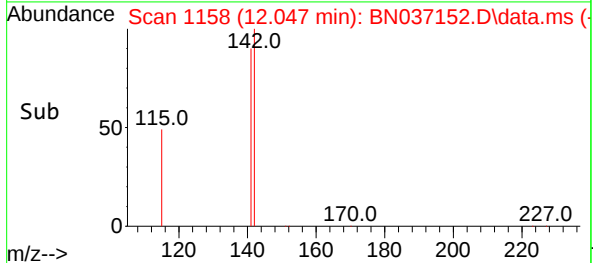
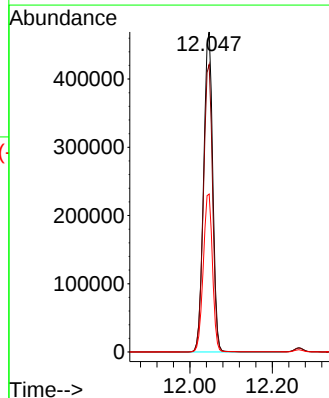
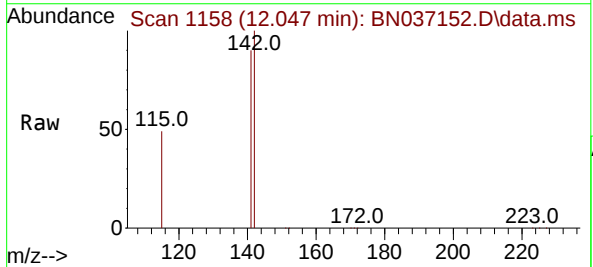
Instrument :  
BNA\_N  
ClientSampleId :  
38072-062624

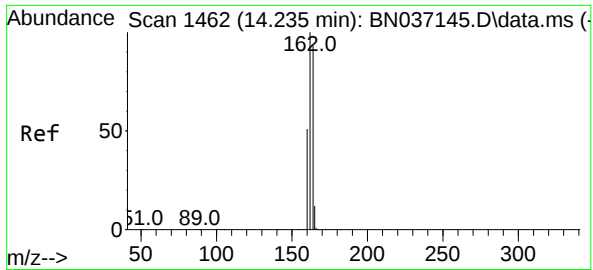
Tgt Ion:152 Resp: 2574  
Ion Ratio Lower Upper  
152 100  
151 22.1 17.1 25.7



#12  
2-Methylnaphthalene  
Concen: 82.603 ng  
RT: 12.047 min Scan# 1158  
Delta R.T. 0.005 min  
Lab File: BN037152.D  
Acq: 03 Jun 2025 17:41

Tgt Ion:142 Resp: 724960  
Ion Ratio Lower Upper  
142 100  
141 89.9 74.6 111.8  
115 49.4 41.0 61.4

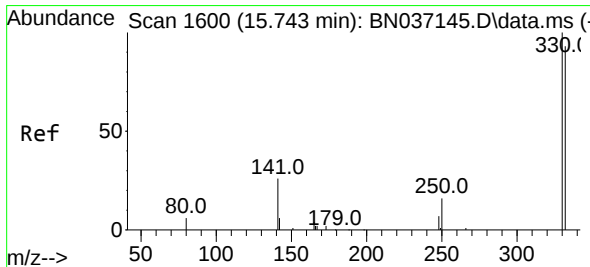
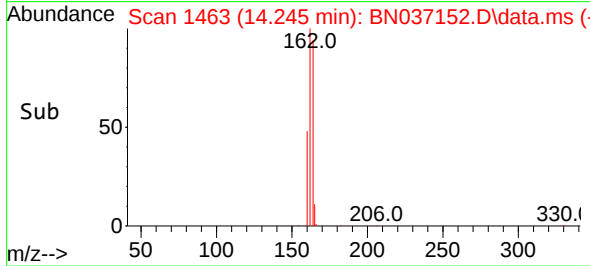
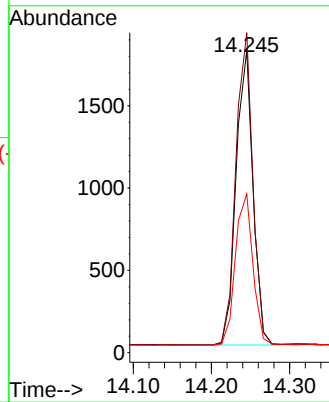
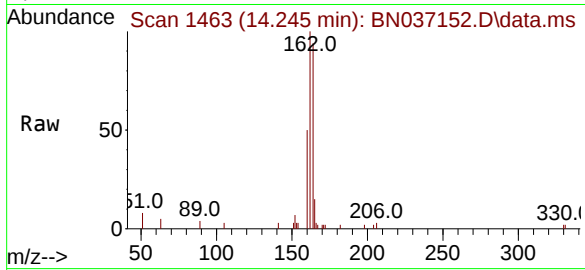




#13  
Acenaphthene-d10  
Concen: 0.400 ng  
RT: 14.245 min Scan# 1463  
Delta R.T. 0.011 min  
Lab File: BN037152.D  
Acq: 03 Jun 2025 17:41

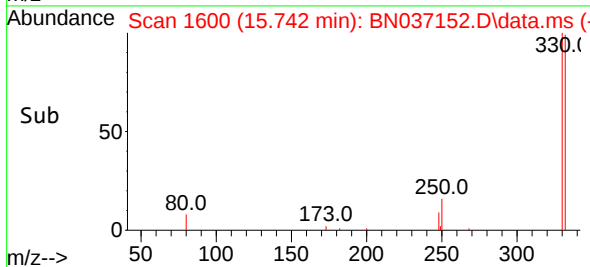
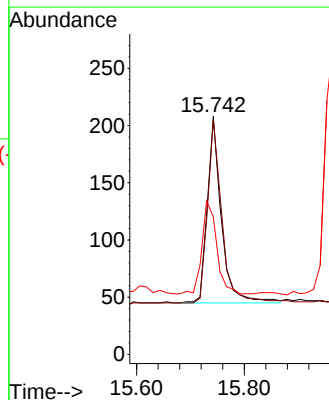
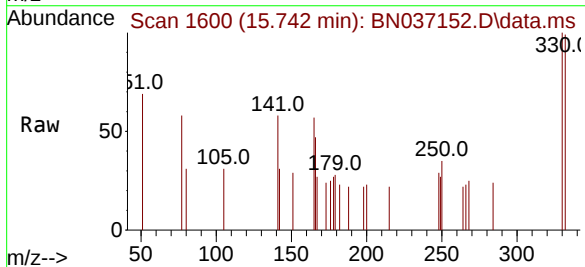
Instrument :  
BNA\_N  
ClientSampleId :  
38072-062624

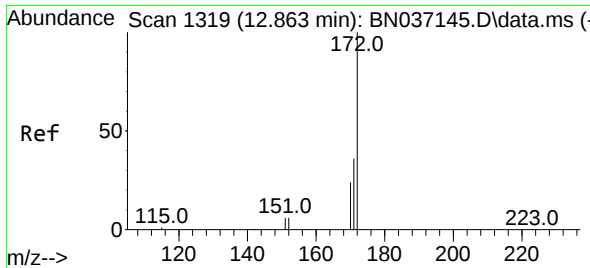
Tgt Ion:164 Resp: 2693  
Ion Ratio Lower Upper  
164 100  
162 105.9 85.5 128.3  
160 52.5 44.6 67.0



#14  
2,4,6-Tribromophenol  
Concen: 0.273 ng  
RT: 15.742 min Scan# 1600  
Delta R.T. -0.000 min  
Lab File: BN037152.D  
Acq: 03 Jun 2025 17:41

Tgt Ion:330 Resp: 296  
Ion Ratio Lower Upper  
330 100  
332 100.0 77.1 115.7  
141 52.7 46.4 69.6

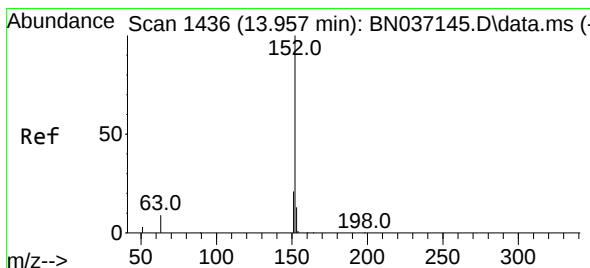
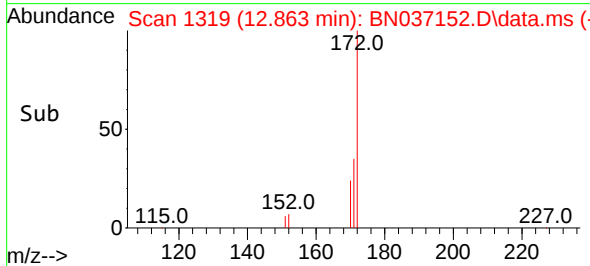
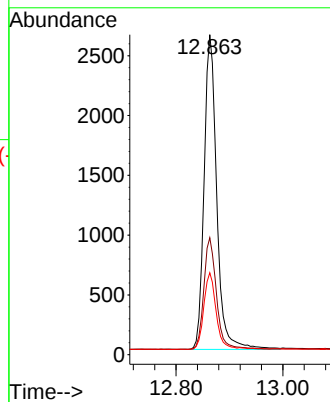
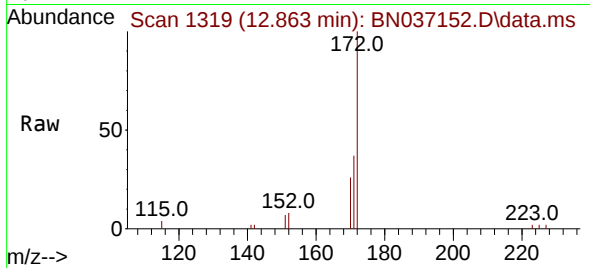




#15  
2-Fluorobiphenyl  
Concen: 0.378 ng  
RT: 12.863 min Scan# 1319  
Delta R.T. -0.000 min  
Lab File: BN037152.D  
Acq: 03 Jun 2025 17:41

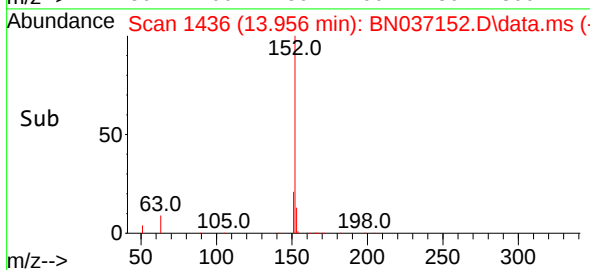
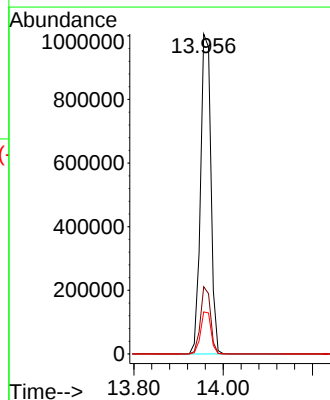
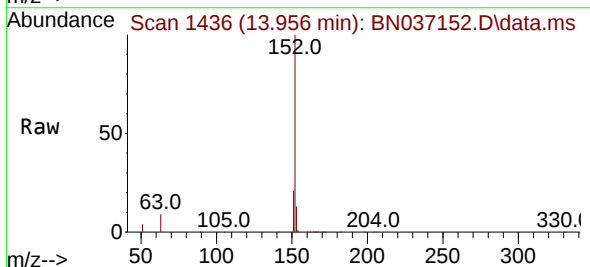
Instrument :  
BNA\_N  
ClientSampleId :  
38072-062624

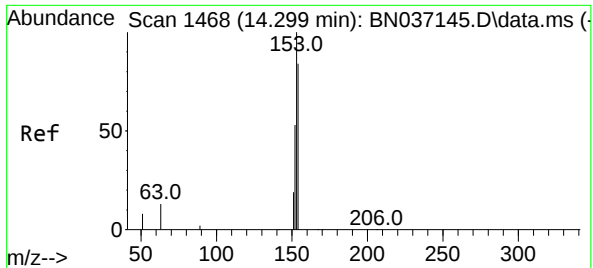
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 172     | 100   |       |       |
| 171     | 36.5  | 29.6  | 44.4  |
| 170     | 25.6  | 20.3  | 30.5  |



#16  
Acenaphthylene  
Concen: 123.178 ng  
RT: 13.956 min Scan# 1436  
Delta R.T. -0.000 min  
Lab File: BN037152.D  
Acq: 03 Jun 2025 17:41

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 151     | 20.4  | 16.3  | 24.5  |
| 153     | 13.2  | 10.6  | 15.8  |

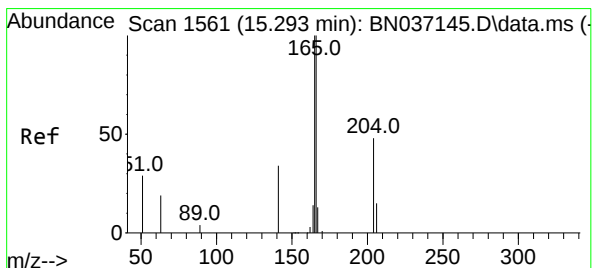
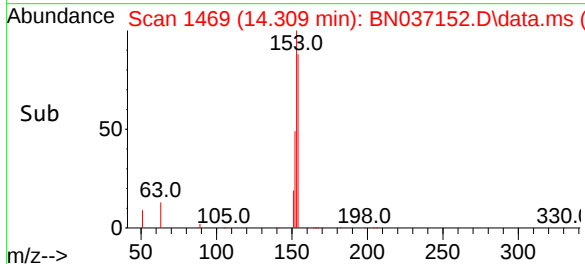
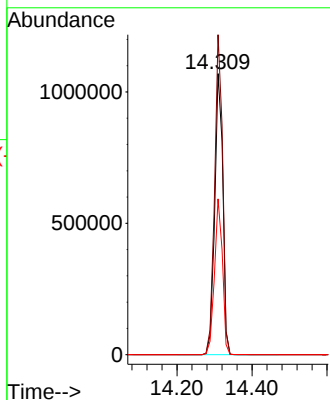
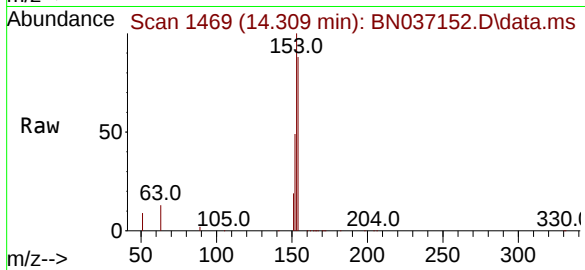




#17  
Acenaphthene  
Concen: 186.976 ng  
RT: 14.309 min Scan# 1469  
Delta R.T. 0.011 min  
Lab File: BN037152.D  
Acq: 03 Jun 2025 17:41

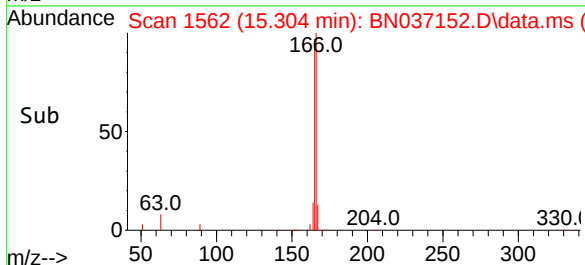
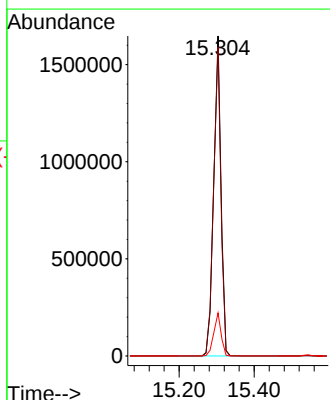
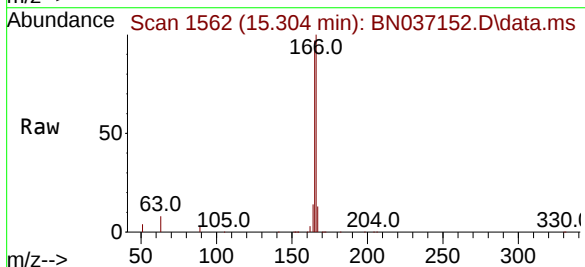
Instrument :  
BNA\_N  
ClientSampleId :  
38072-062624

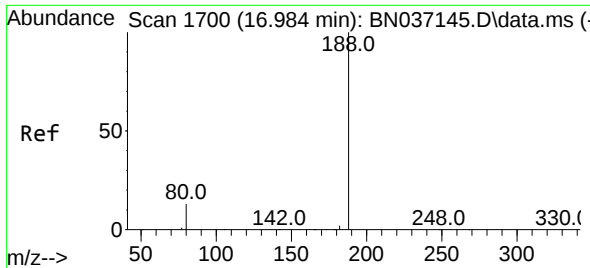
Tgt Ion:154 Resp: 1602919  
Ion Ratio Lower Upper  
154 100  
153 112.9 93.8 140.8  
152 54.6 50.5 75.7



#18  
Fluorene  
Concen: 197.737 ng  
RT: 15.304 min Scan# 1562  
Delta R.T. 0.011 min  
Lab File: BN037152.D  
Acq: 03 Jun 2025 17:41

Tgt Ion:166 Resp: 2228433  
Ion Ratio Lower Upper  
166 100  
165 97.6 81.1 121.7  
167 13.5 10.8 16.2

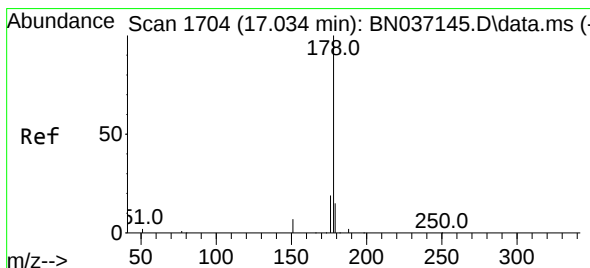
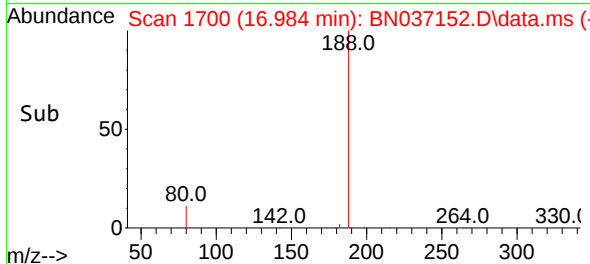
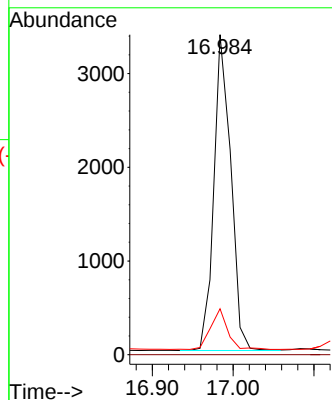
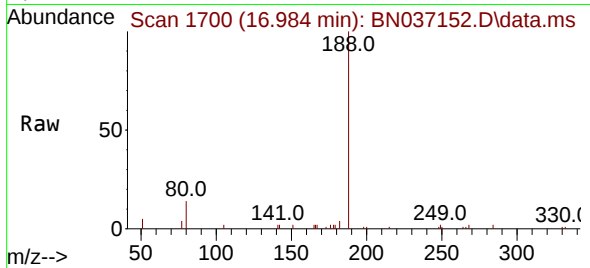




#19  
Phenanthrene-d10  
Concen: 0.400 ng  
RT: 16.984 min Scan# 11  
Delta R.T. -0.000 min  
Lab File: BN037152.D  
Acq: 03 Jun 2025 17:41

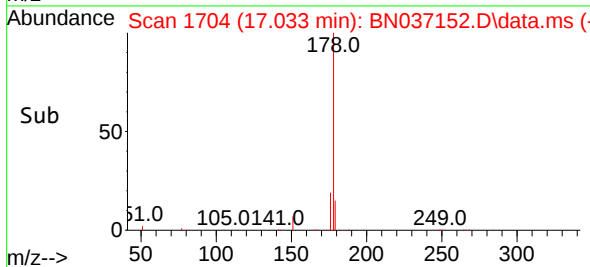
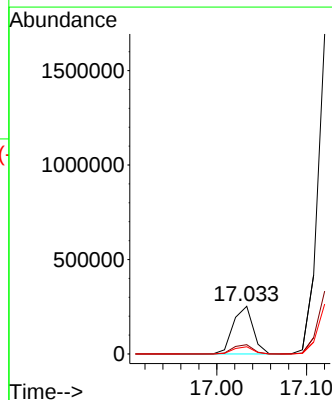
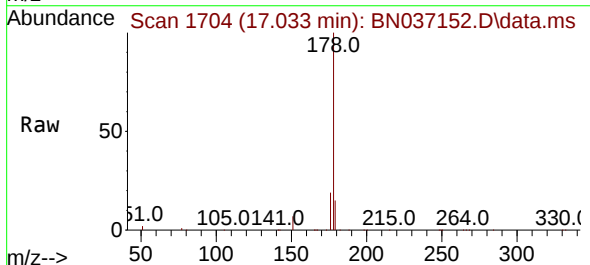
Instrument :  
BNA\_N  
ClientSampleId :  
38072-062624

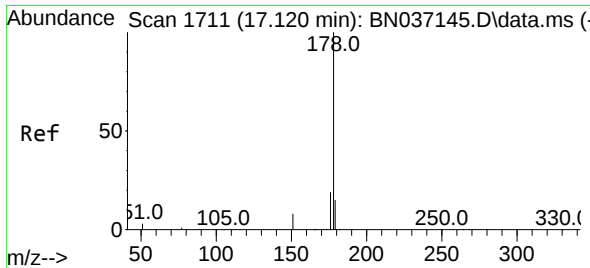
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 188     | 100   |       |       |
| 94      | 0.0   | 0.0   | 0.0   |
| 80      | 14.3  | 11.3  | 16.9  |



#25  
Phenanthrene  
Concen: 24.466 ng  
RT: 17.033 min Scan# 1704  
Delta R.T. -0.000 min  
Lab File: BN037152.D  
Acq: 03 Jun 2025 17:41

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 178     | 100   |       |       |
| 176     | 19.8  | 15.7  | 23.5  |
| 179     | 15.2  | 12.3  | 18.5  |

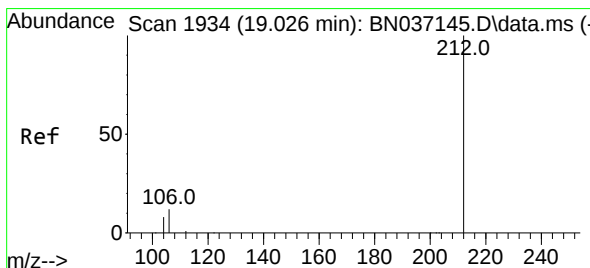
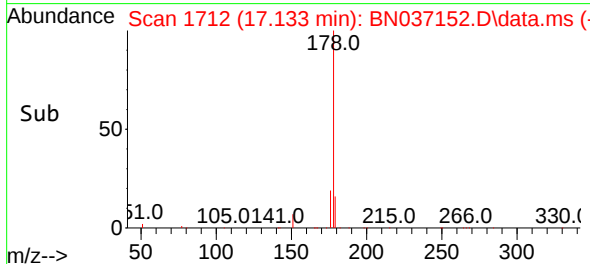
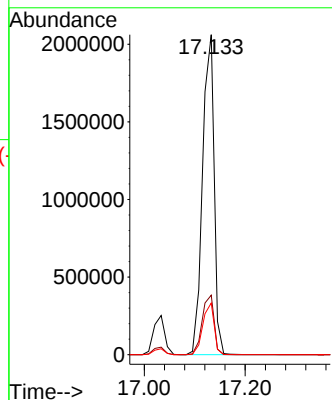
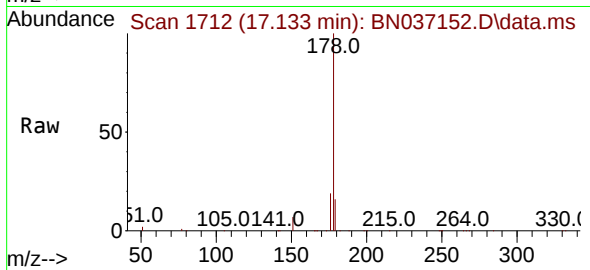




#26  
Anthracene  
Concen: 227.200 ng  
RT: 17.133 min Scan# 1712  
Delta R.T. 0.012 min  
Lab File: BN037152.D  
Acq: 03 Jun 2025 17:41

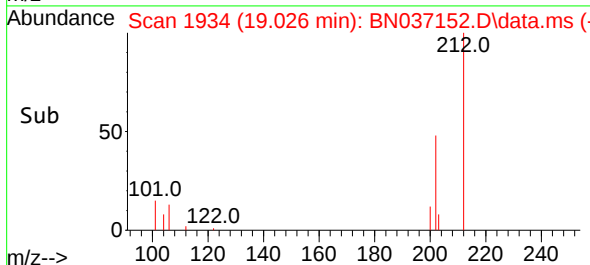
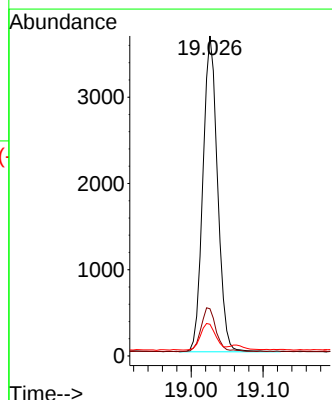
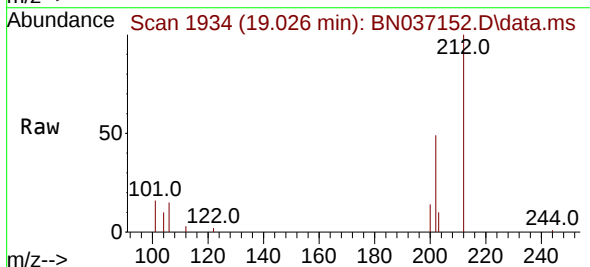
Instrument :  
BNA\_N  
ClientSampleId :  
38072-062624

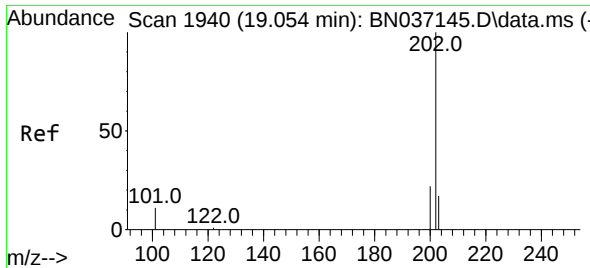
Tgt Ion:178 Resp: 3294514  
Ion Ratio Lower Upper  
178 100  
176 19.1 15.2 22.8  
179 15.8 12.9 19.3



#27  
Fluoranthene-d10  
Concen: 0.414 ng  
RT: 19.026 min Scan# 1934  
Delta R.T. -0.000 min  
Lab File: BN037152.D  
Acq: 03 Jun 2025 17:41

Tgt Ion:212 Resp: 5165  
Ion Ratio Lower Upper  
212 100  
106 14.5 10.6 15.8  
104 8.8 6.6 9.8

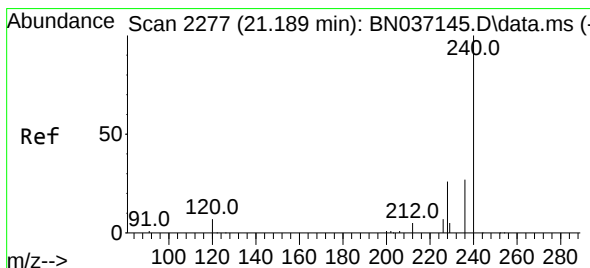
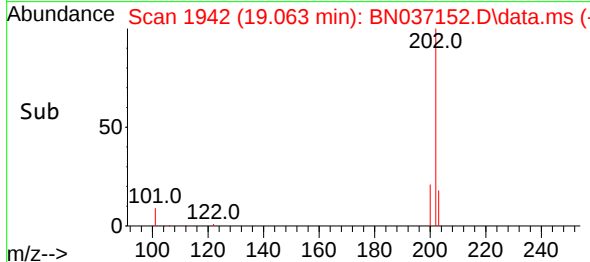
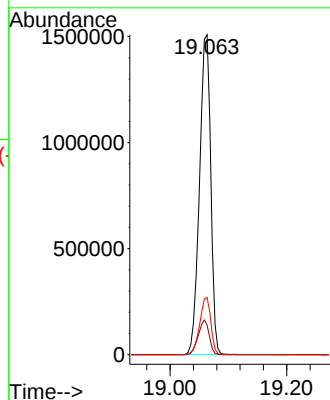
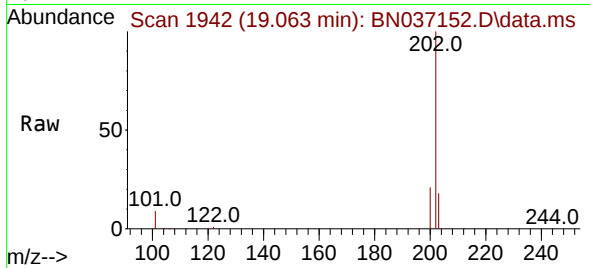




#28  
Fluoranthene  
Concen: 115.258 ng  
RT: 19.063 min Scan# 1940  
Delta R.T. 0.009 min  
Lab File: BN037152.D  
Acq: 03 Jun 2025 17:41

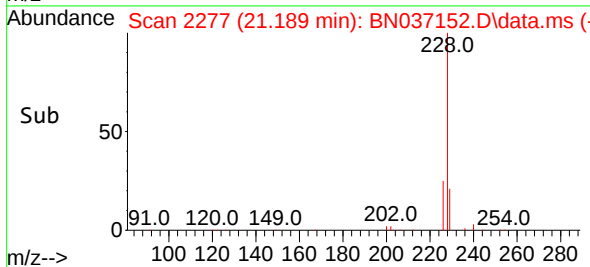
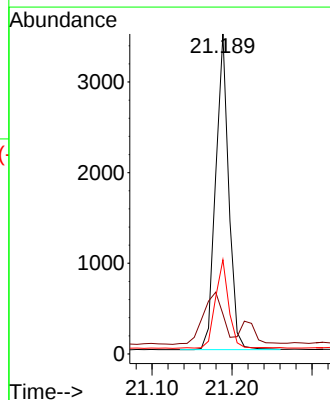
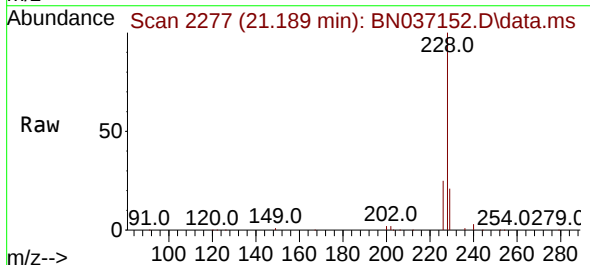
Instrument :  
BNA\_N  
ClientSampleId :  
38072-062624

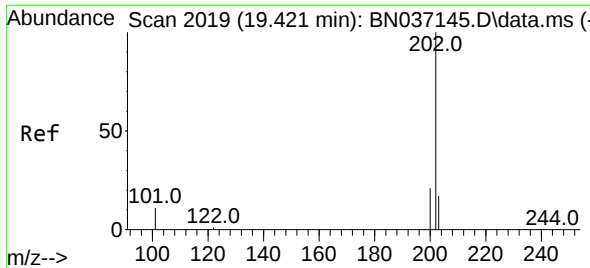
Tgt Ion:202 Resp: 2023402  
Ion Ratio Lower Upper  
202 100  
101 10.5 8.7 13.1  
203 17.6 13.5 20.3



#29  
Chrysene-d12  
Concen: 0.400 ng  
RT: 21.189 min Scan# 2277  
Delta R.T. -0.000 min  
Lab File: BN037152.D  
Acq: 03 Jun 2025 17:41

Tgt Ion:240 Resp: 3958  
Ion Ratio Lower Upper  
240 100  
120 12.4 9.0 13.4  
236 29.4 23.0 34.4

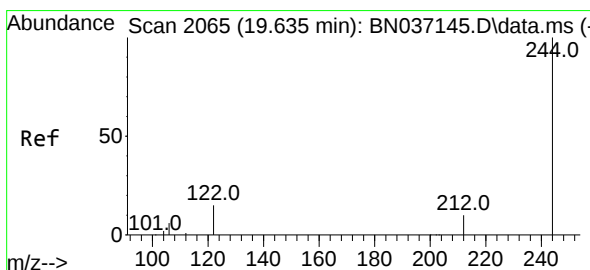
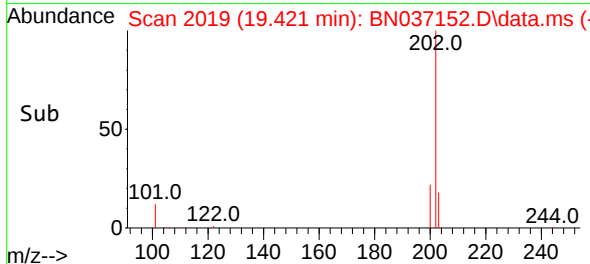
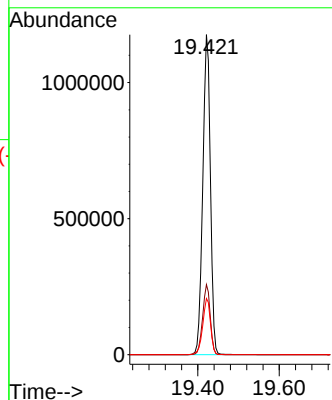
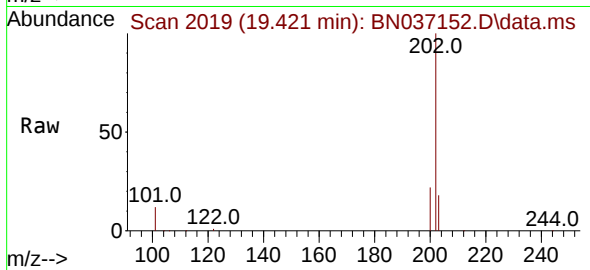




#30  
Pyrene  
Concen: 78.833 ng  
RT: 19.421 min Scan# 2019  
Delta R.T. -0.000 min  
Lab File: BN037152.D  
Acq: 03 Jun 2025 17:41

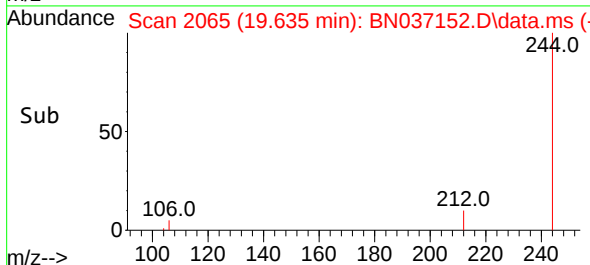
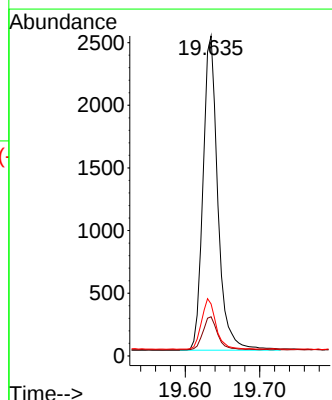
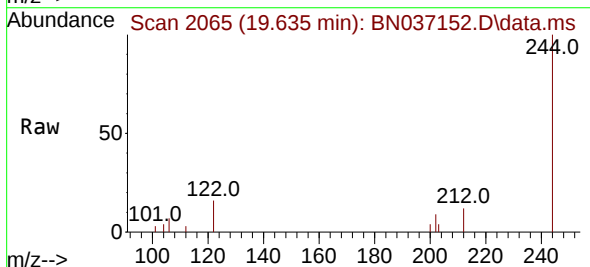
Instrument :  
BNA\_N  
ClientSampleId :  
38072-062624

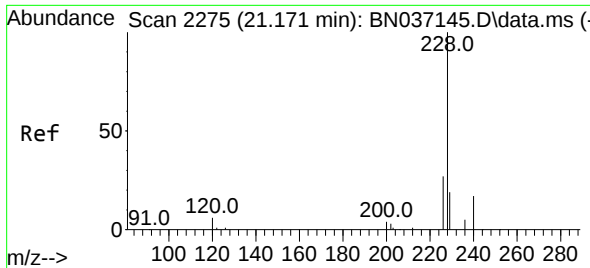
Tgt Ion:202 Resp: 1523102  
Ion Ratio Lower Upper  
202 100  
200 21.8 17.0 25.6  
203 18.0 14.2 21.4



#31  
Terphenyl-d14  
Concen: 0.372 ng  
RT: 19.635 min Scan# 2065  
Delta R.T. -0.000 min  
Lab File: BN037152.D  
Acq: 03 Jun 2025 17:41

Tgt Ion:244 Resp: 3468  
Ion Ratio Lower Upper  
244 100  
212 12.2 10.0 15.0  
122 16.2 13.2 19.8

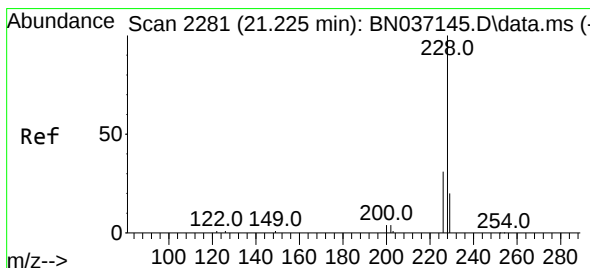
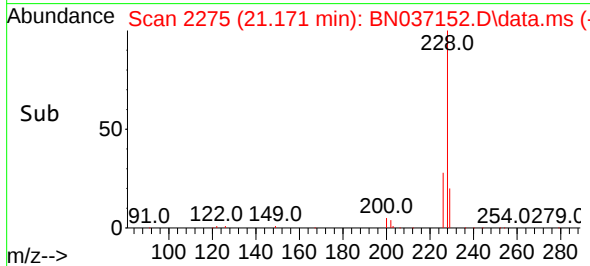
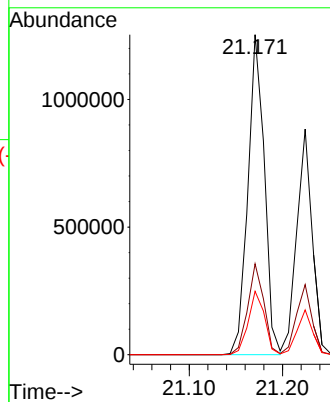
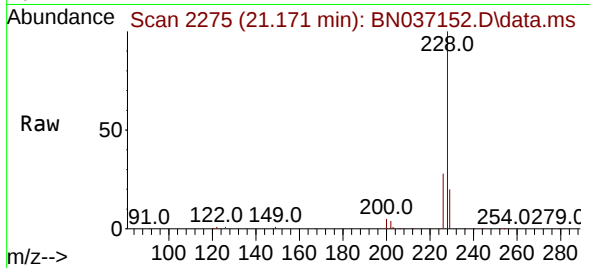




#32  
Benzo(a)anthracene  
Concen: 107.198 ng  
RT: 21.171 min Scan# 2117  
Delta R.T. -0.000 min  
Lab File: BN037152.D  
Acq: 03 Jun 2025 17:41

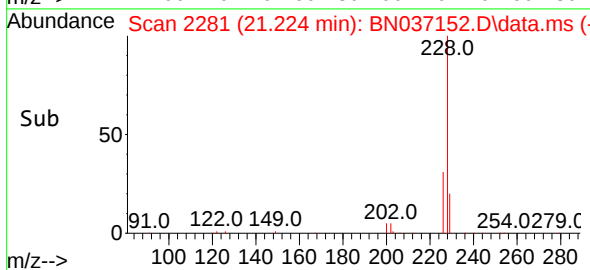
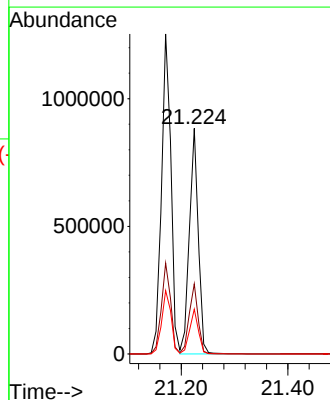
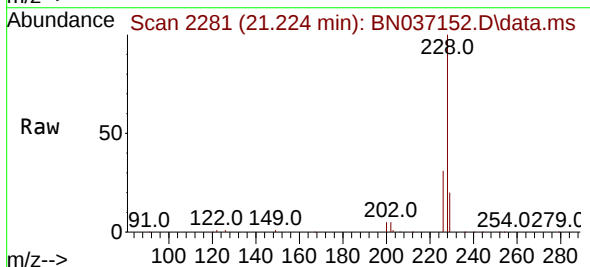
Instrument :  
BNA\_N  
ClientSampleId :  
38072-062624

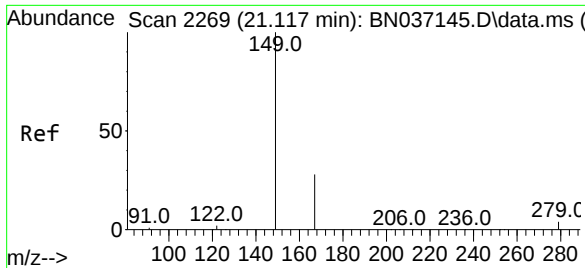
Tgt Ion:228 Resp: 1535854  
Ion Ratio Lower Upper  
228 100  
226 28.4 22.6 33.8  
229 19.8 16.2 24.2



#33  
Chrysene  
Concen: 64.274 ng  
RT: 21.224 min Scan# 2281  
Delta R.T. -0.000 min  
Lab File: BN037152.D  
Acq: 03 Jun 2025 17:41

Tgt Ion:228 Resp: 1025267  
Ion Ratio Lower Upper  
228 100  
226 31.1 25.2 37.8  
229 19.9 16.8 25.2

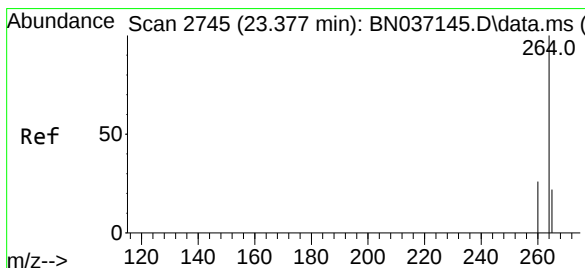
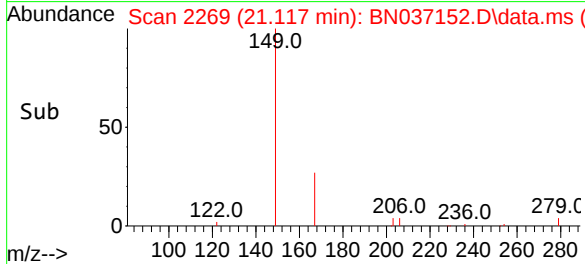
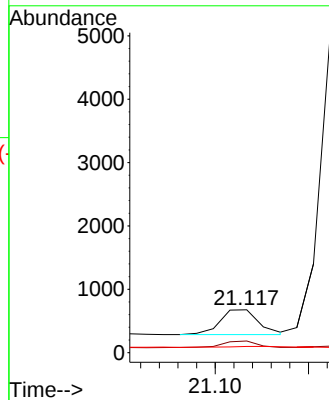
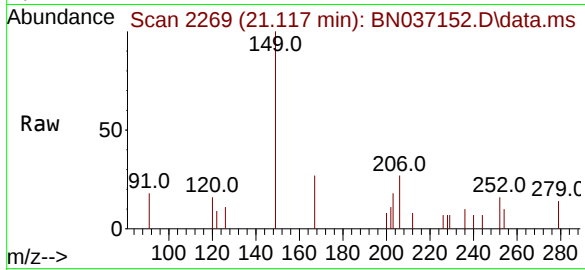




#34  
Bis(2-ethylhexyl)phthalate  
Concen: 0.063 ng  
RT: 21.117 min Scan# 2117  
Delta R.T. -0.000 min  
Lab File: BN037152.D  
Acq: 03 Jun 2025 17:41

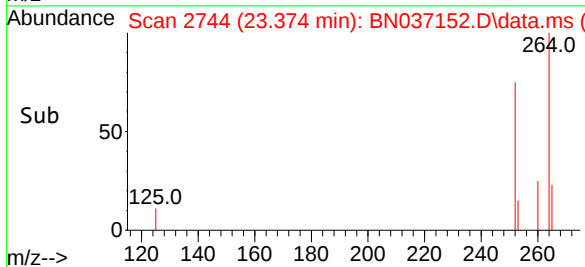
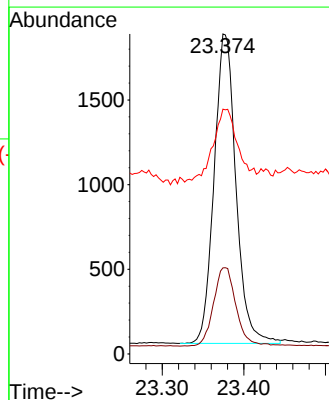
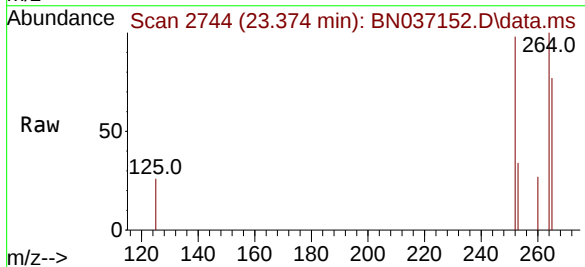
Instrument :  
BNA\_N  
ClientSampleId :  
38072-062624

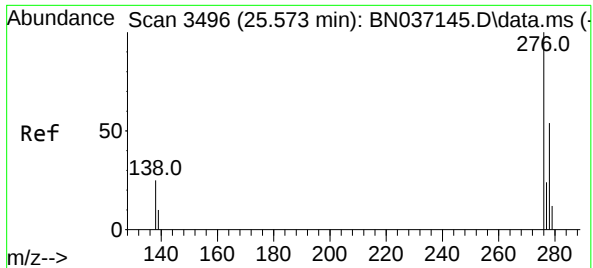
Tgt Ion:149 Resp: 565  
Ion Ratio Lower Upper  
149 100  
167 25.0 21.0 31.4  
279 6.9 2.9 4.3#



#35  
Perylene-d12  
Concen: 0.400 ng  
RT: 23.374 min Scan# 2744  
Delta R.T. -0.003 min  
Lab File: BN037152.D  
Acq: 03 Jun 2025 17:41

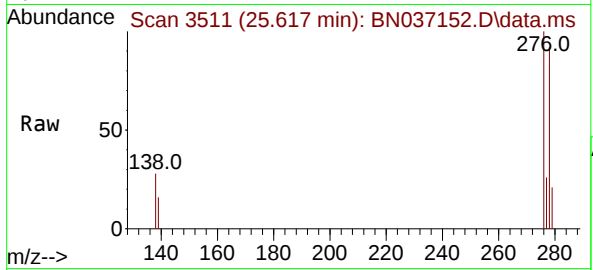
Tgt Ion:264 Resp: 3402  
Ion Ratio Lower Upper  
264 100  
260 26.9 22.1 33.1  
265 76.5 55.8 83.8



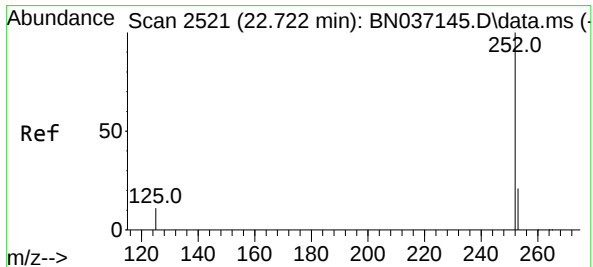
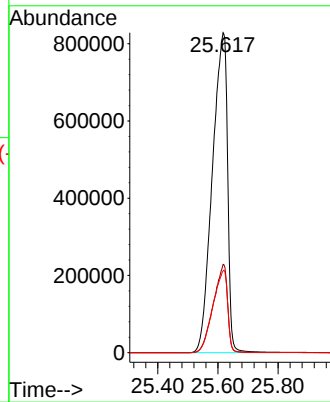
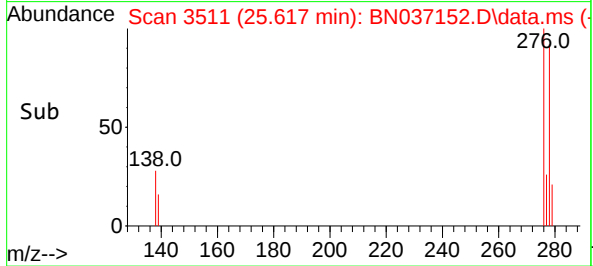


#36  
Indeno(1,2,3-cd)pyrene  
Concen: 214.315 ng  
RT: 25.617 min Scan# 3511  
Delta R.T. 0.044 min  
Lab File: BN037152.D  
Acq: 03 Jun 2025 17:41

Instrument :  
BNA\_N  
ClientSampleId :  
38072-062624

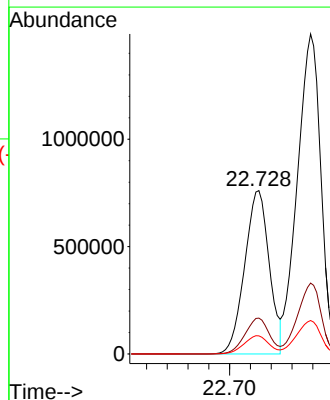
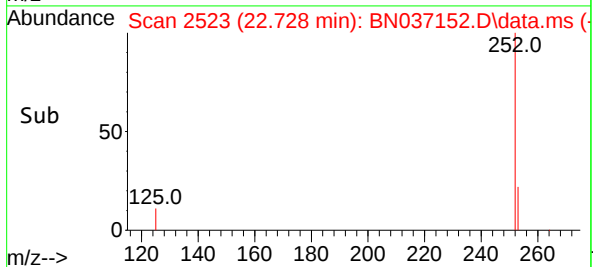
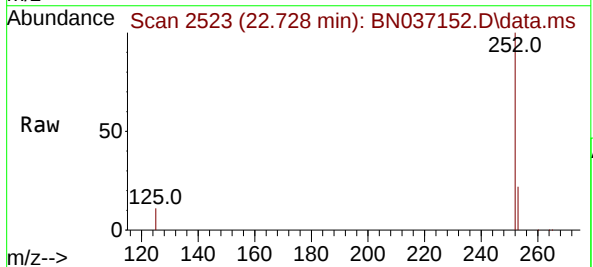


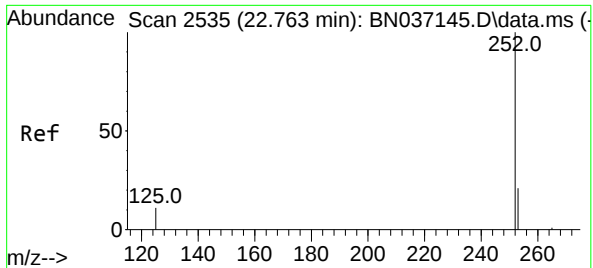
Tgt Ion:276 Resp: 2900718  
Ion Ratio Lower Upper  
276 100  
138 26.1 21.0 31.6  
277 25.1 19.4 29.2



#37  
Benzo(b)fluoranthene  
Concen: 91.051 ng  
RT: 22.728 min Scan# 2523  
Delta R.T. 0.006 min  
Lab File: BN037152.D  
Acq: 03 Jun 2025 17:41

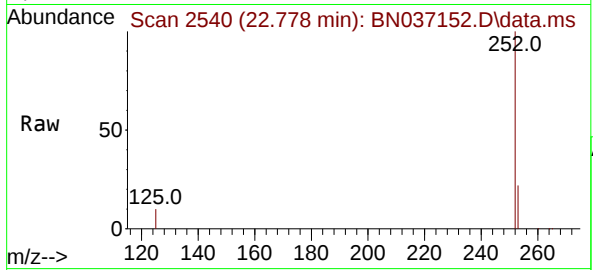
Tgt Ion:252 Resp: 1250366  
Ion Ratio Lower Upper  
252 100  
253 21.9 22.3 33.5#  
125 11.1 13.2 19.8#



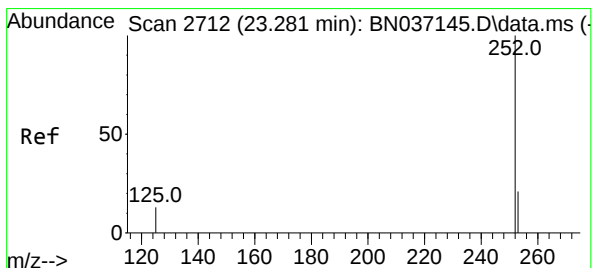
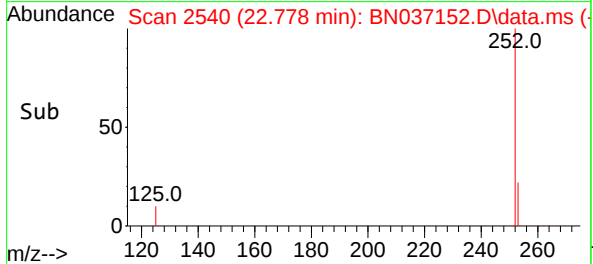
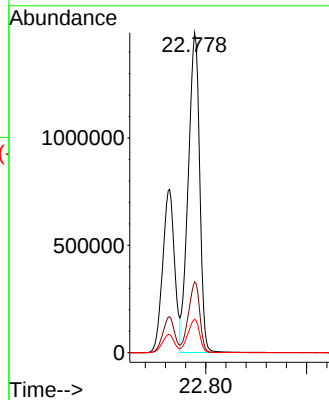


#38  
Benzo(k)fluoranthene  
Concen: 167.474 ng  
RT: 22.778 min Scan# 21  
Delta R.T. 0.014 min  
Lab File: BN037152.D  
Acq: 03 Jun 2025 17:41

Instrument :  
BNA\_N  
ClientSampleId :  
38072-062624

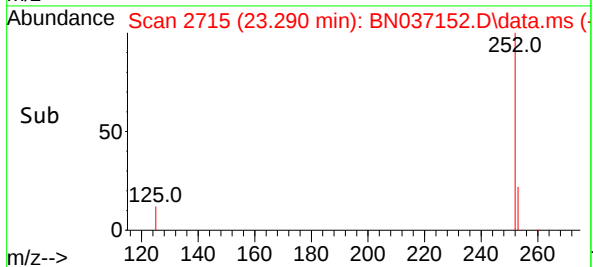
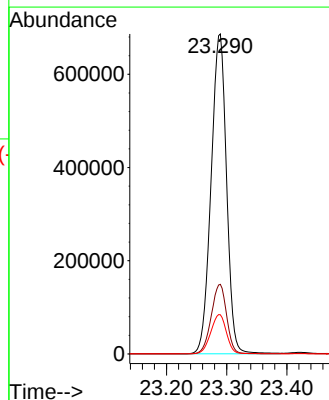
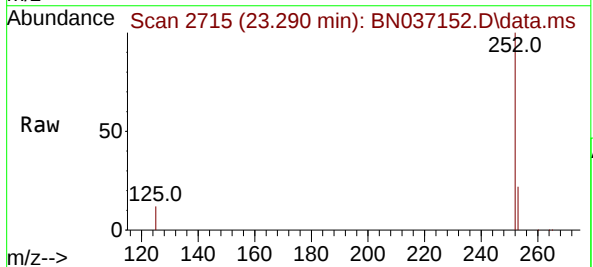


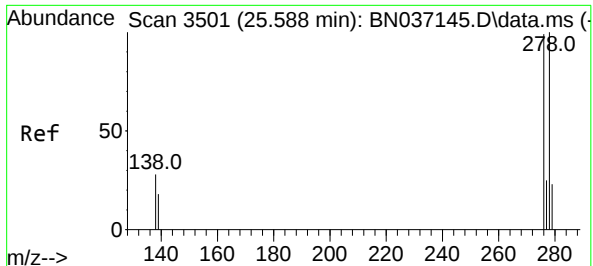
Tgt Ion:252 Resp: 2348043  
Ion Ratio Lower Upper  
252 100  
253 22.2 22.2 33.4#  
125 10.4 13.2 19.8#



#39  
Benzo(a)pyrene  
Concen: 106.192 ng  
RT: 23.290 min Scan# 2715  
Delta R.T. 0.009 min  
Lab File: BN037152.D  
Acq: 03 Jun 2025 17:41

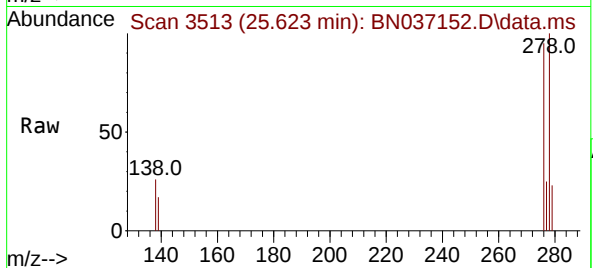
Tgt Ion:252 Resp: 1221520  
Ion Ratio Lower Upper  
252 100  
253 21.7 25.0 37.4#  
125 12.2 17.0 25.6#



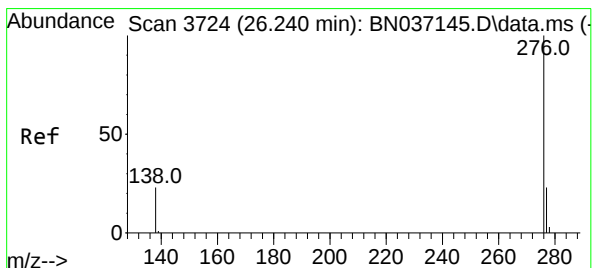
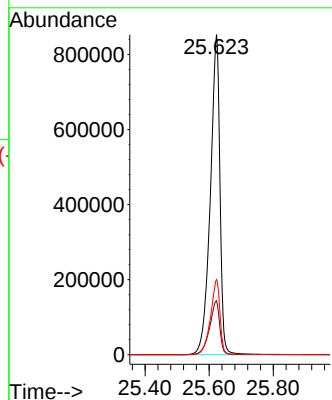
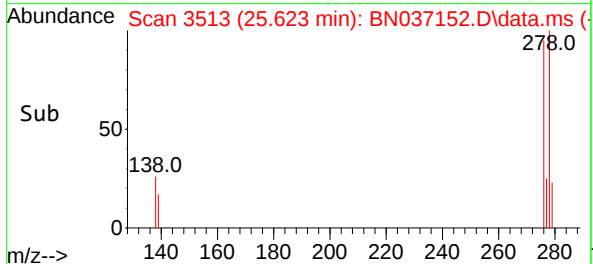


#40  
Dibenzo(a,h)anthracene  
Concen: 170.556 ng  
RT: 25.623 min Scan# 31  
Delta R.T. 0.035 min  
Lab File: BN037152.D  
Acq: 03 Jun 2025 17:41

Instrument :  
BNA\_N  
ClientSampleId :  
38072-062624

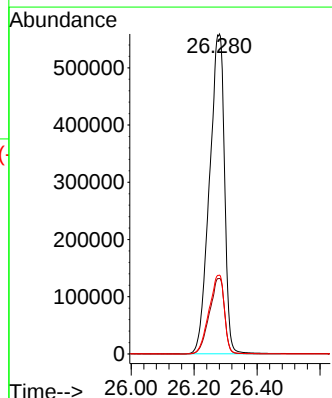
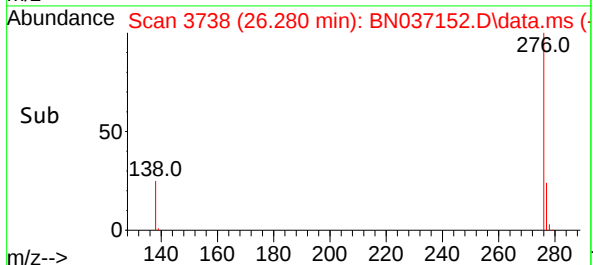
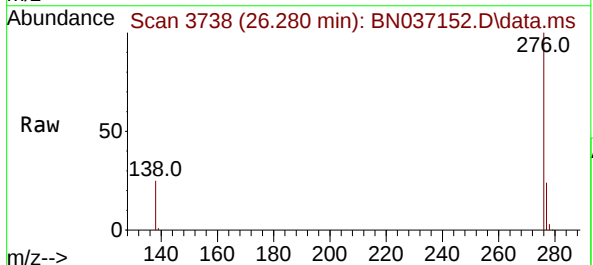


Tgt Ion:278 Resp: 1780212  
Ion Ratio Lower Upper  
278 100  
139 16.8 17.6 26.4#  
279 23.4 26.0 39.0#



#41  
Benzo(g,h,i)perylene  
Concen: 154.066 ng  
RT: 26.280 min Scan# 3738  
Delta R.T. 0.041 min  
Lab File: BN037152.D  
Acq: 03 Jun 2025 17:41

Tgt Ion:276 Resp: 1847070  
Ion Ratio Lower Upper  
276 100  
277 23.6 20.9 31.3  
138 24.7 20.8 31.2



## Report of Analysis

|                    |                                        |                 |               |
|--------------------|----------------------------------------|-----------------|---------------|
| Client:            | Alliance Technical Group, LLC - Newark | Date Collected: | 05/30/25      |
| Project:           | NJ Waste Water PT                      | Date Received:  | 06/02/25      |
| Client Sample ID:  | 38072-062624DL                         | SDG No.:        | Q2181         |
| Lab Sample ID:     | Q2181-01DL                             | Matrix:         | Water         |
| Analytical Method: | SW8270ESIM                             | % Solid:        | 0             |
| Sample Wt/Vol:     | 1000      Units:    mL                 | Final Vol:      | 1000      uL  |
| Soil Aliquot Vol:  | uL                                     | Test:           | SVOCMS Group5 |
| Extraction Type :  | Decanted :    N                        | Level :         | LOW           |
| Injection Volume : | GPC Factor :    1.0                    | GPC Cleanup :   | N      PH :   |
| Prep Method :      |                                        |                 |               |

|                   |           |                |                |               |
|-------------------|-----------|----------------|----------------|---------------|
| File ID/Qc Batch: | Dilution: | Prep Date      | Date Analyzed  | Prep Batch ID |
| BN037153.D        | 50        | 06/02/25 14:27 | 06/03/25 18:18 | PB168238      |

| CAS Number                | Parameter               | Conc. | Qualifier | MDL      | LOQ / CRQL | Units    |
|---------------------------|-------------------------|-------|-----------|----------|------------|----------|
| <b>TARGETS</b>            |                         |       |           |          |            |          |
| 208-96-8                  | Acenaphthylene          | 120   | D         | 1.90     | 5.00       | ug/L     |
| <b>SURROGATES</b>         |                         |       |           |          |            |          |
| 7297-45-2                 | 2-Methylnaphthalene-d10 | 0.40  |           | 20 - 139 | 100%       | SPK: 0.4 |
| 93951-69-0                | Fluoranthene-d10        | 0.45  |           | 54 - 157 | 113%       | SPK: 0.4 |
| 4165-60-0                 | Nitrobenzene-d5         | 0.45  |           | 27 - 154 | 113%       | SPK: 0.4 |
| 321-60-8                  | 2-Fluorobiphenyl        | 0.40  |           | 30 - 155 | 100%       | SPK: 0.4 |
| 1718-51-0                 | Terphenyl-d14           | 0.45  |           | 54 - 175 | 113%       | SPK: 0.4 |
| <b>INTERNAL STANDARDS</b> |                         |       |           |          |            |          |
| 3855-82-1                 | 1,4-Dichlorobenzene-d4  | 2320  |           | 7.596    |            |          |
| 1146-65-2                 | Naphthalene-d8          | 6120  |           | 10.372   |            |          |
| 15067-26-2                | Acenaphthene-d10        | 3330  |           | 14.234   |            |          |
| 1517-22-2                 | Phenanthrene-d10        | 6290  |           | 16.984   |            |          |
| 1719-03-5                 | Chrysene-d12            | 4600  |           | 21.18    |            |          |
| 1520-96-3                 | Perylene-d12            | 3670  |           | 23.377   |            |          |

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\BN060325\  
 Data File : BN037153.D  
 Acq On : 03 Jun 2025 18:18  
 Operator : RC/JU  
 Sample : Q2181-01DL 50X  
 Misc :  
 ALS Vial : 14 Sample Multiplier: 1

Instrument :  
 BNA\_N  
 ClientSampleId :  
 38072-062624DL

Quant Time: Jun 04 02:16:43 2025  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\8270-SIM-BN060325.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Wed Jun 04 01:52:03 2025  
 Response via : Initial Calibration

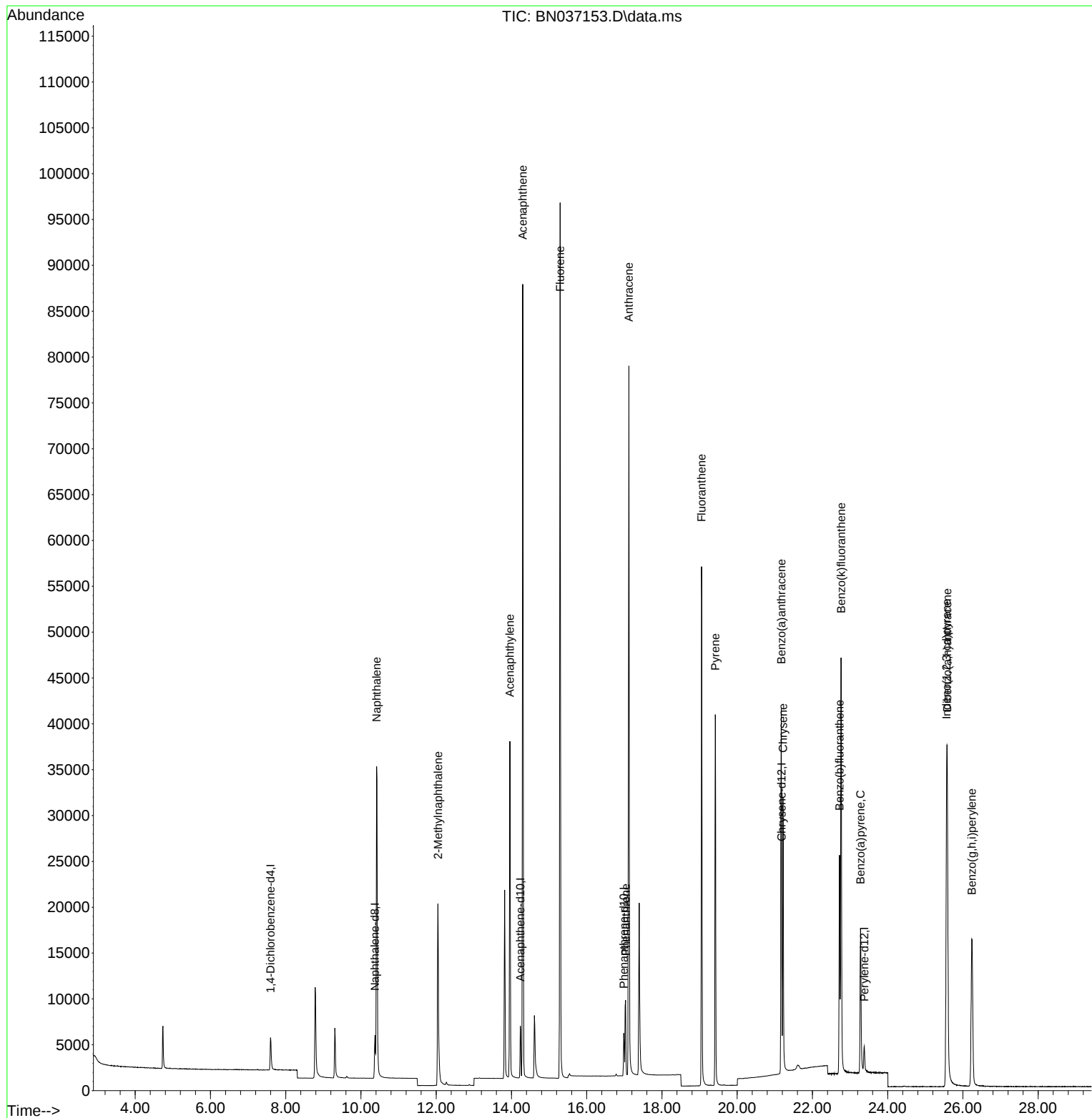
| Compound                    | R.T.   | QIon | Response | Conc  | Units | Dev(Min) |
|-----------------------------|--------|------|----------|-------|-------|----------|
| Internal Standards          |        |      |          |       |       |          |
| 1) 1,4-Dichlorobenzene-d4   | 7.596  | 152  | 2324     | 0.400 | ng    | 0.00     |
| 7) Naphthalene-d8           | 10.372 | 136  | 6120     | 0.400 | ng    | 0.00     |
| 13) Acenaphthene-d10        | 14.234 | 164  | 3333     | 0.400 | ng    | 0.00     |
| 19) Phenanthrene-d10        | 16.984 | 188  | 6288     | 0.400 | ng    | 0.00     |
| 29) Chrysene-d12            | 21.180 | 240  | 4597     | 0.400 | ng    | # 0.00   |
| 35) Perylene-d12            | 23.377 | 264  | 3669     | 0.400 | ng    | 0.00     |
| System Monitoring Compounds |        |      |          |       |       |          |
| 4) 2-Fluorophenol           | 5.191  | 112  | 40       | 0.007 | ng    | 0.00     |
| 5) Phenol-d6                | 0.000  | 99   | 0d       | 0.000 | ng    |          |
| 8) Nitrobenzene-d5          | 8.739  | 82   | 60       | 0.009 | ng    | 0.00     |
| 11) 2-Methylnaphthalene-d10 | 11.970 | 152  | 72       | 0.008 | ng    | 0.00     |
| 14) 2,4,6-Tribromophenol    | 15.767 | 330  | 6        | 0.004 | ng    | 0.02     |
| 15) 2-Fluorobiphenyl        | 12.883 | 172  | 114      | 0.008 | ng    | 0.02     |
| 27) Fluoranthene-d10        | 19.021 | 212  | 141      | 0.009 | ng    | 0.00     |
| 31) Terphenyl-d14           | 19.644 | 244  | 93       | 0.009 | ng    | 0.00     |
| Target Compounds            |        |      |          |       |       |          |
| 9) Naphthalene              | 10.415 | 128  | 49727    | 2.816 | ng    | 97       |
| 12) 2-Methylnaphthalene     | 12.046 | 142  | 17461    | 1.543 | ng    | 96       |
| 16) Acenaphthylene          | 13.956 | 152  | 37740    | 2.310 | ng    | 99       |
| 17) Acenaphthene            | 14.299 | 154  | 39265    | 3.701 | ng    | 98       |
| 18) Fluorene                | 15.293 | 166  | 54997    | 3.943 | ng    | 99       |
| 25) Phenanthrene            | 17.033 | 178  | 9486     | 0.466 | ng    | 100      |
| 26) Anthracene              | 17.120 | 178  | 77911    | 4.191 | ng    | 99       |
| 28) Fluoranthene            | 19.054 | 202  | 51595    | 2.293 | ng    | 99       |
| 30) Pyrene                  | 19.416 | 202  | 37373    | 1.665 | ng    | 100      |
| 32) Benzo(a)anthracene      | 21.171 | 228  | 33315    | 2.002 | ng    | 99       |
| 33) Chrysene                | 21.215 | 228  | 26438    | 1.427 | ng    | 99       |
| 36) Indeno(1,2,3-cd)pyrene  | 25.567 | 276  | 51464    | 3.526 | ng    | 99       |
| 37) Benzo(b)fluoranthene    | 22.719 | 252  | 27512    | 1.858 | ng    | # 91     |
| 38) Benzo(k)fluoranthene    | 22.760 | 252  | 56528    | 3.738 | ng    | # 89     |
| 39) Benzo(a)pyrene          | 23.278 | 252  | 24186    | 1.950 | ng    | # 86     |
| 40) Dibenzo(a,h)anthracene  | 25.582 | 278  | 30813    | 2.737 | ng    | # 89     |
| 41) Benzo(g,h,i)perylene    | 26.236 | 276  | 32541    | 2.517 | ng    | 97       |

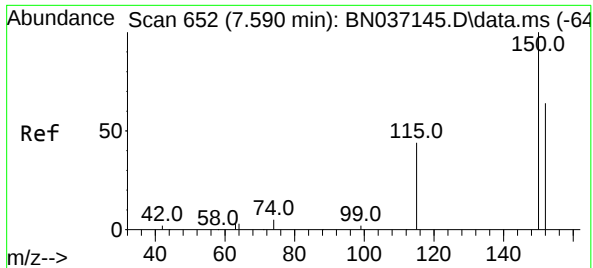
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN060325\  
Data File : BN037153.D  
Acq On : 03 Jun 2025 18:18  
Operator : RC/JU  
Sample : Q2181-01DL 50X  
Misc :  
ALS Vial : 14 Sample Multiplier: 1

Instrument :  
BNA\_N  
ClientSampleId :  
38072-062624DL

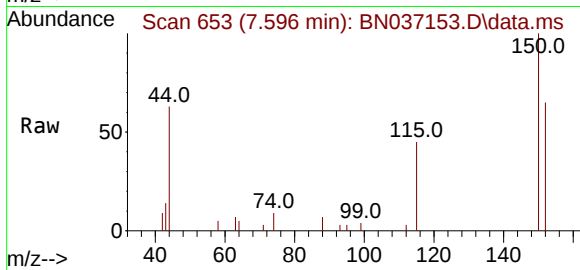
Quant Time: Jun 04 02:16:43 2025  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\8270-SIM-BN060325.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Wed Jun 04 01:52:03 2025  
Response via : Initial Calibration



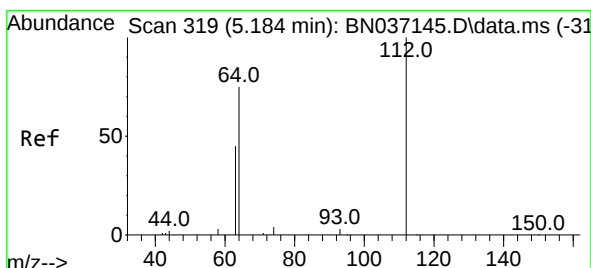
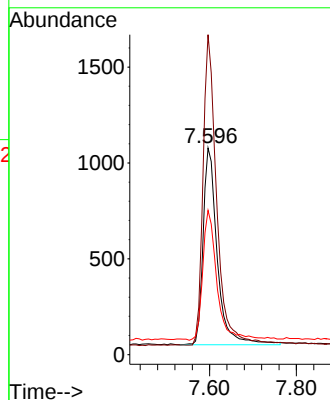
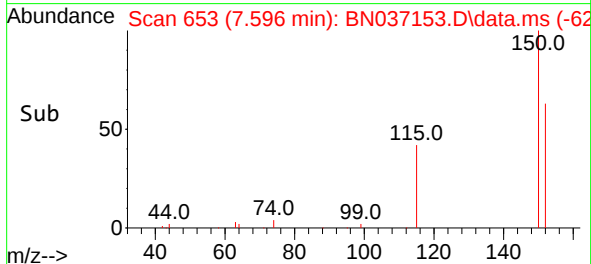


#1  
1,4-Dichlorobenzene-d4  
Concen: 0.400 ng  
RT: 7.596 min Scan# 61  
Delta R.T. 0.006 min  
Lab File: BN037153.D  
Acq: 03 Jun 2025 18:18

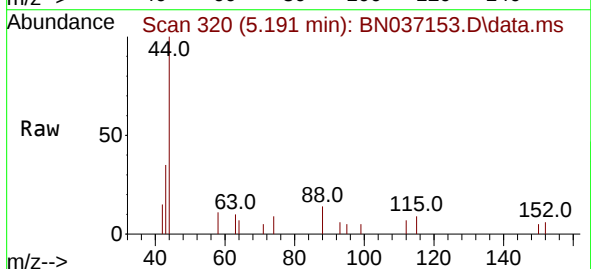
Instrument :  
BNA\_N  
ClientSampleId :  
38072-062624DL



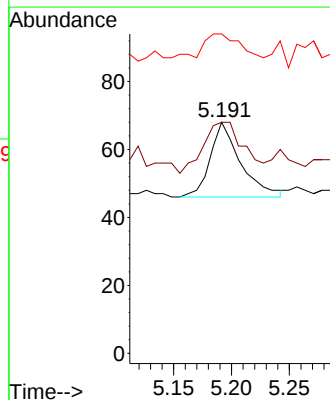
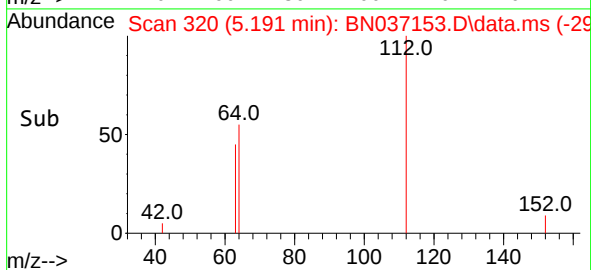
Tgt Ion:152 Resp: 2324  
Ion Ratio Lower Upper  
152 100  
150 154.8 123.2 184.8  
115 69.9 56.6 85.0

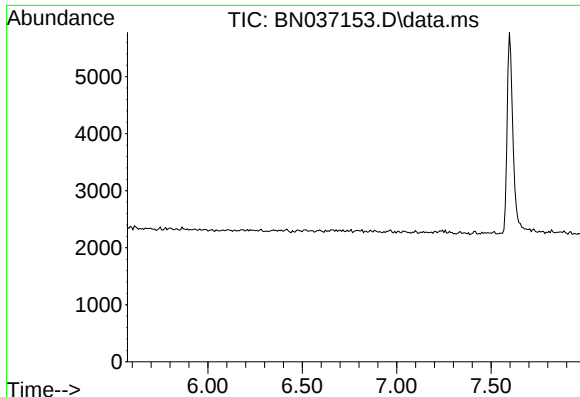


#4  
2-Fluorophenol  
Concen: 0.007 ng  
RT: 5.191 min Scan# 320  
Delta R.T. 0.007 min  
Lab File: BN037153.D  
Acq: 03 Jun 2025 18:18



Tgt Ion:112 Resp: 40  
Ion Ratio Lower Upper  
112 100  
64 90.0 56.3 84.5#  
63 65.0 36.2 54.4#





#5

Phenol-d6

Concen: 0.000 ng

Expected RT: 6.77 min

Lab File: BN037153.D

Acq: 03 Jun 2025 18:18

Instrument :

BNA\_N

ClientSampleId :

38072-062624DL

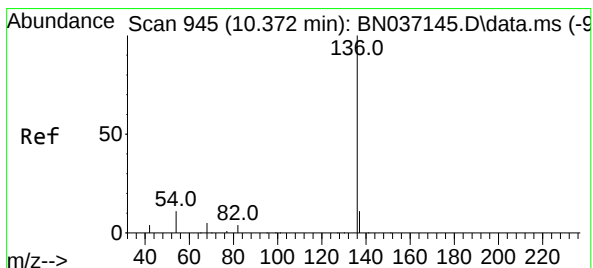
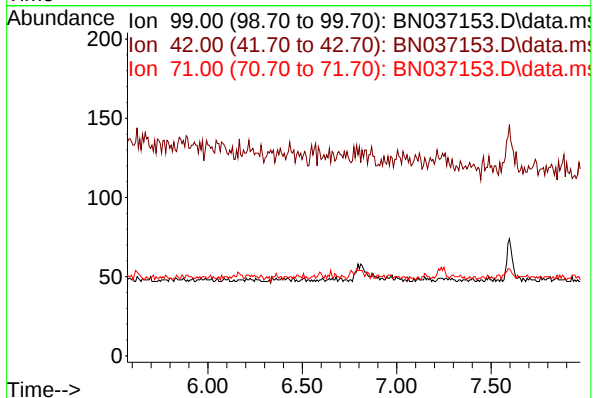
Tgt Ion: 99

Sig Exp Ratio

99 100

42 39.1

71 47.7



#7

Naphthalene-d8

Concen: 0.400 ng

RT: 10.372 min Scan# 945

Delta R.T. -0.000 min

Lab File: BN037153.D

Acq: 03 Jun 2025 18:18

Tgt Ion: 136 Resp: 6120

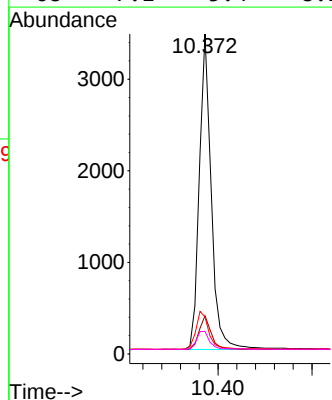
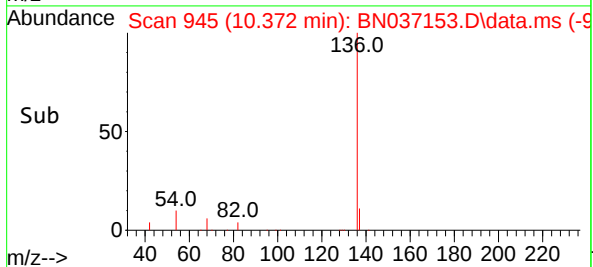
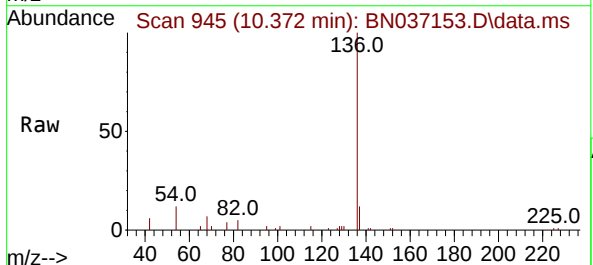
Ion Ratio Lower Upper

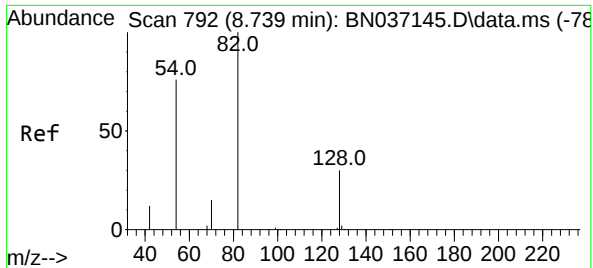
136 100

137 12.0 9.7 14.5

54 11.5 9.7 14.5

68 7.1 5.4 8.2

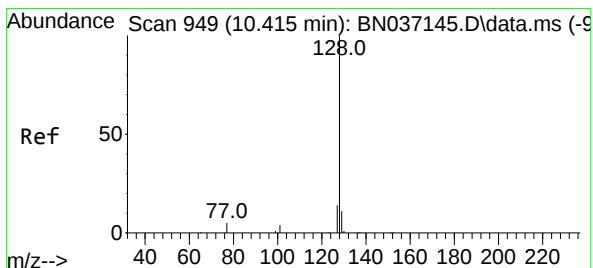
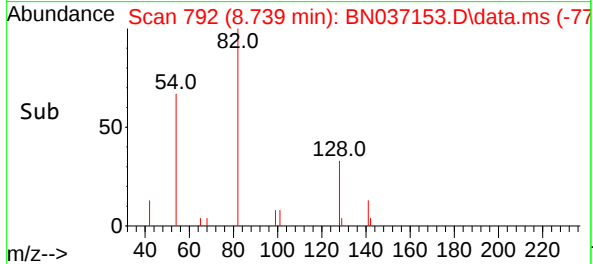
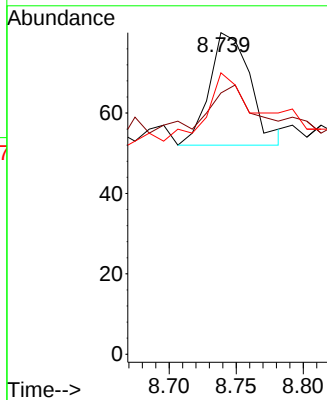
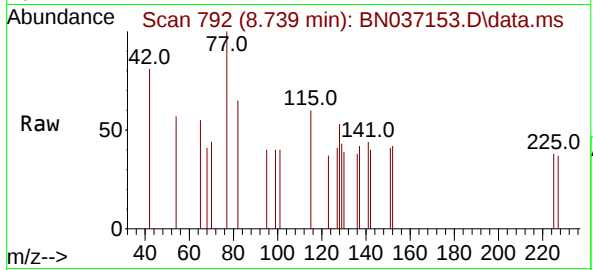




#8  
Nitrobenzene-d5  
Concen: 0.009 ng  
RT: 8.739 min Scan# 792  
Delta R.T. -0.000 min  
Lab File: BN037153.D  
Acq: 03 Jun 2025 18:18

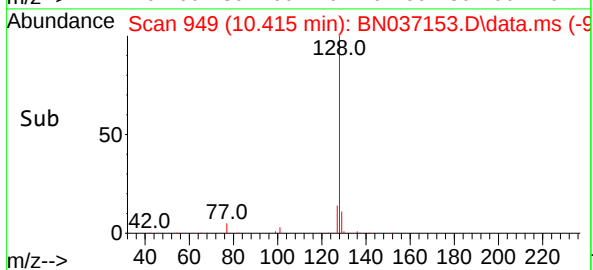
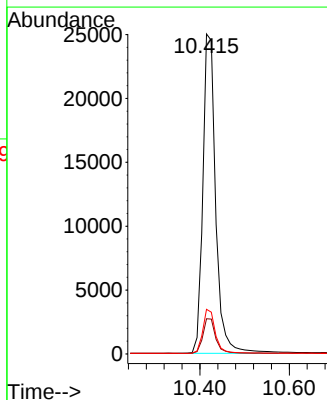
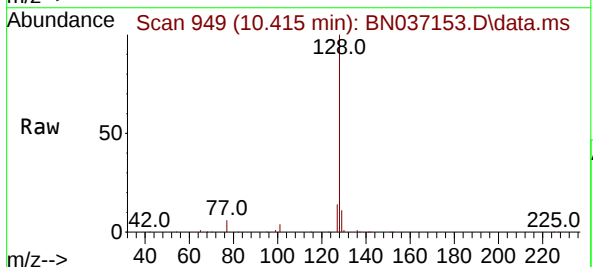
Instrument :  
BNA\_N  
ClientSampleId :  
38072-062624DL

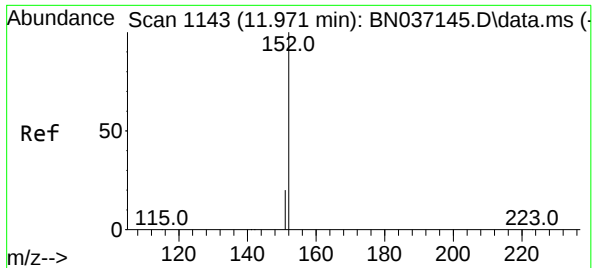
Tgt Ion: 82 Resp: 60  
Ion Ratio Lower Upper  
82 100  
128 81.3 26.9 40.3#  
54 87.5 61.4 92.2



#9  
Naphthalene  
Concen: 2.816 ng  
RT: 10.415 min Scan# 949  
Delta R.T. -0.000 min  
Lab File: BN037153.D  
Acq: 03 Jun 2025 18:18

Tgt Ion: 128 Resp: 49727  
Ion Ratio Lower Upper  
128 100  
129 11.0 9.8 14.8  
127 14.0 12.3 18.5

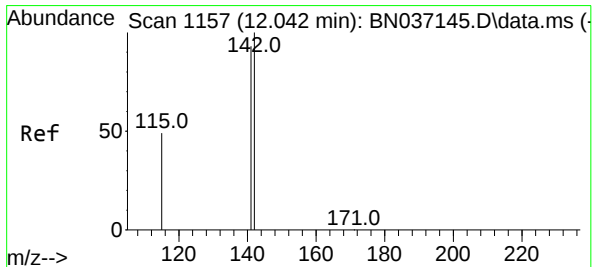
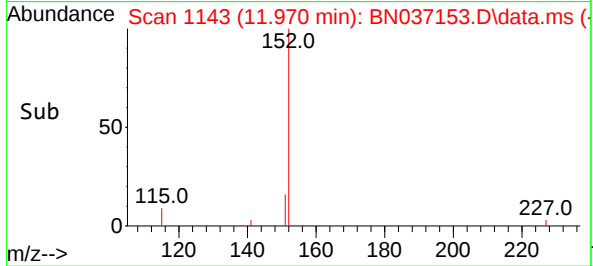
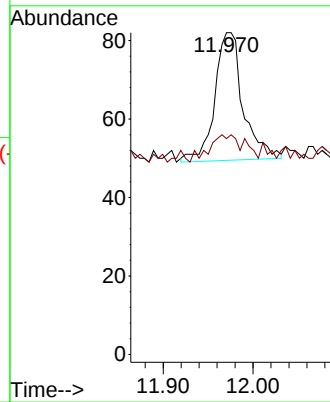
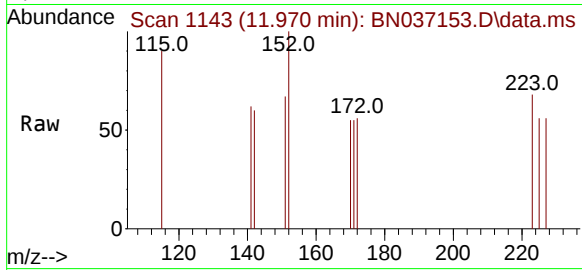




#11  
2-Methylnaphthalene-d10  
Concen: 0.008 ng  
RT: 11.970 min Scan# 1143  
Delta R.T. -0.000 min  
Lab File: BN037153.D  
Acq: 03 Jun 2025 18:18

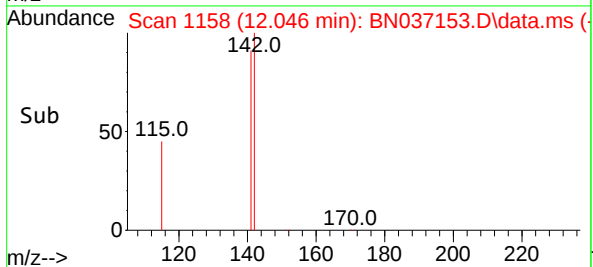
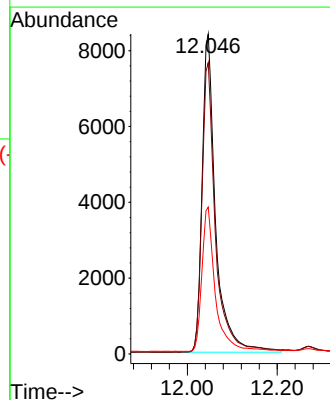
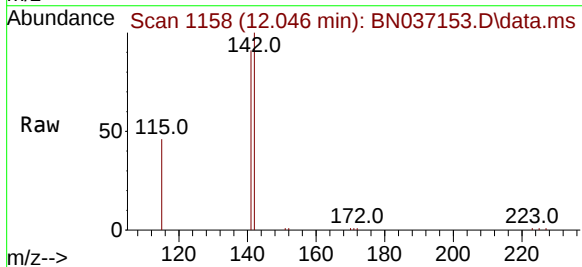
Instrument :  
BNA\_N  
ClientSampleId :  
38072-062624DL

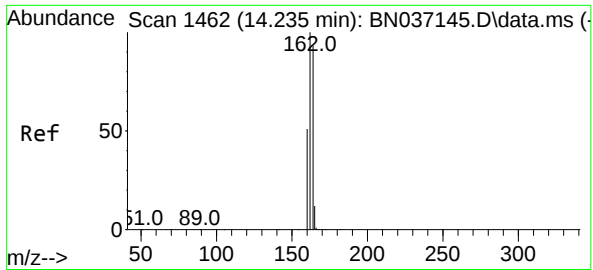
Tgt Ion:152 Resp: 72  
Ion Ratio Lower Upper  
152 100  
151 20.8 17.1 25.7



#12  
2-Methylnaphthalene  
Concen: 1.543 ng  
RT: 12.046 min Scan# 1158  
Delta R.T. 0.005 min  
Lab File: BN037153.D  
Acq: 03 Jun 2025 18:18

Tgt Ion:142 Resp: 17461  
Ion Ratio Lower Upper  
142 100  
141 91.1 74.6 111.8  
115 45.9 41.0 61.4

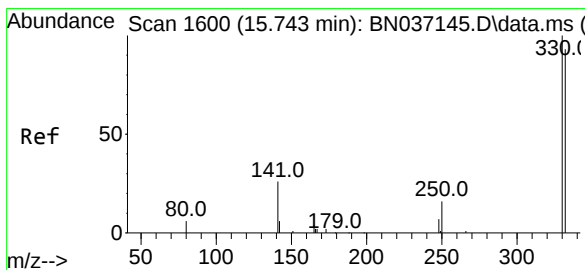
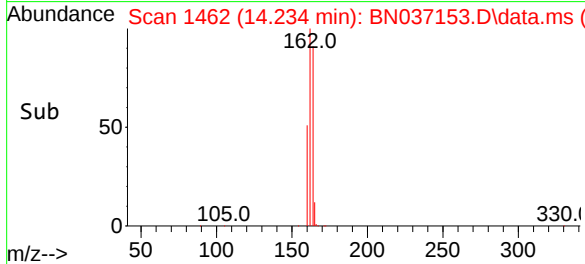
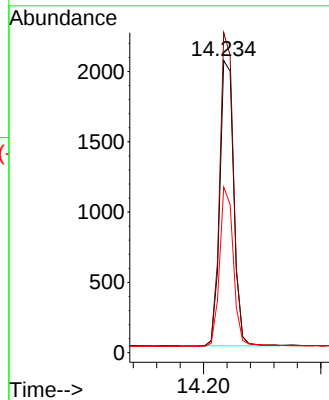
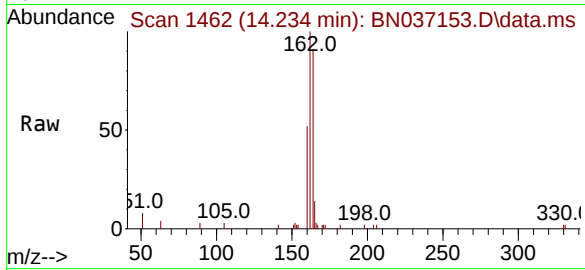




#13  
Acenaphthene-d10  
Concen: 0.400 ng  
RT: 14.234 min Scan# 1462  
Delta R.T. -0.000 min  
Lab File: BN037153.D  
Acq: 03 Jun 2025 18:18

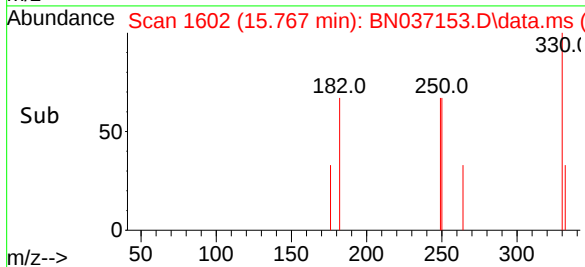
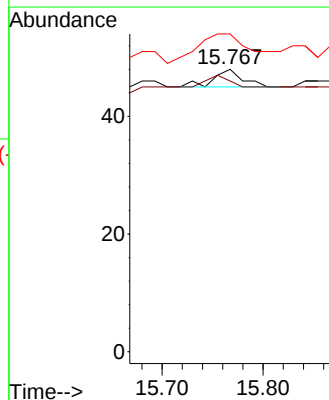
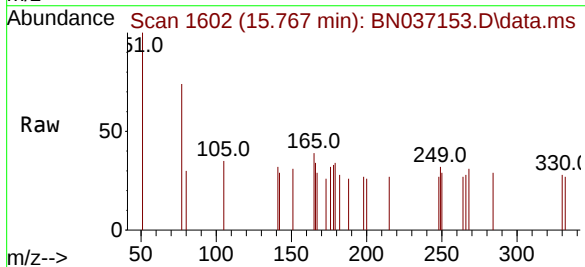
Instrument :  
BNA\_N  
ClientSampleId :  
38072-062624DL

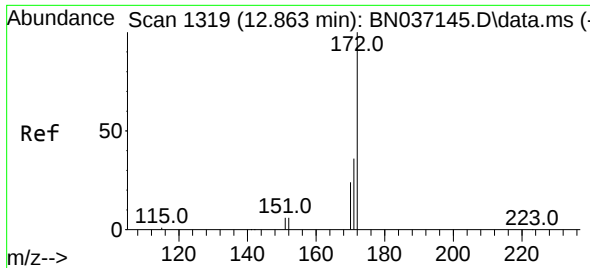
Tgt Ion:164 Resp: 3333  
Ion Ratio Lower Upper  
164 100  
162 109.5 85.5 128.3  
160 56.7 44.6 67.0



#14  
2,4,6-Tribromophenol  
Concen: 0.004 ng  
RT: 15.767 min Scan# 1602  
Delta R.T. 0.025 min  
Lab File: BN037153.D  
Acq: 03 Jun 2025 18:18

Tgt Ion:330 Resp: 6  
Ion Ratio Lower Upper  
330 100  
332 50.0 77.1 115.7#  
141 300.0 46.4 69.6#

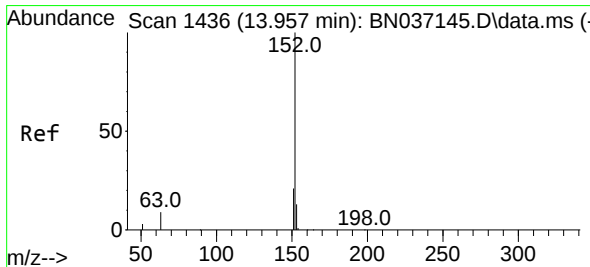
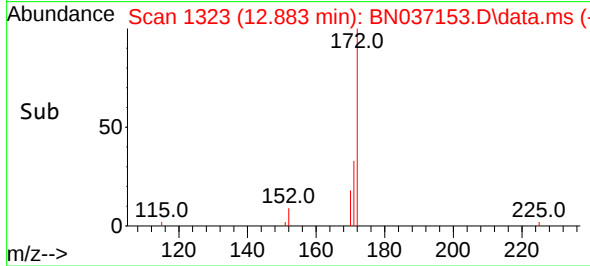
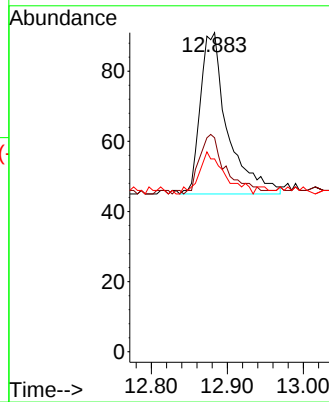
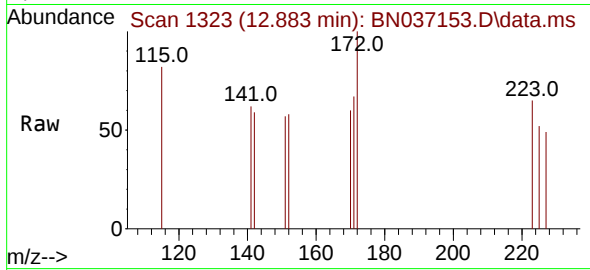




#15  
2-Fluorobiphenyl  
Concen: 0.008 ng  
RT: 12.883 min Scan# 11  
Delta R.T. 0.020 min  
Lab File: BN037153.D  
Acq: 03 Jun 2025 18:18

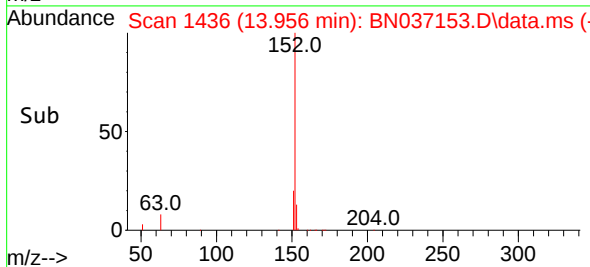
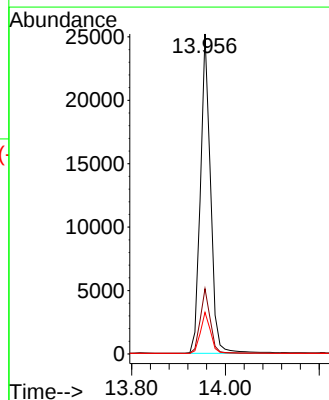
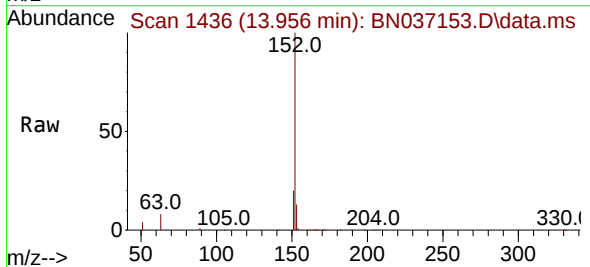
Instrument :  
BNA\_N  
ClientSampleId :  
38072-062624DL

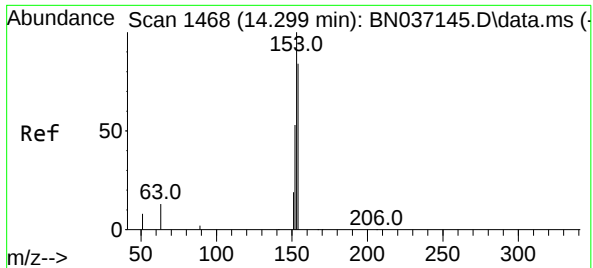
Tgt Ion:172 Resp: 114  
Ion Ratio Lower Upper  
172 100  
171 67.0 29.6 44.4#  
170 60.4 20.3 30.5#



#16  
Acenaphthylene  
Concen: 2.310 ng  
RT: 13.956 min Scan# 1436  
Delta R.T. -0.000 min  
Lab File: BN037153.D  
Acq: 03 Jun 2025 18:18

Tgt Ion:152 Resp: 37740  
Ion Ratio Lower Upper  
152 100  
151 20.2 16.3 24.5  
153 13.0 10.6 15.8

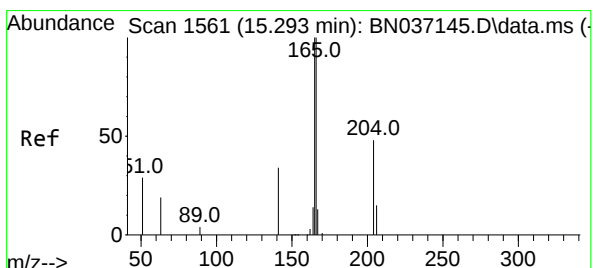
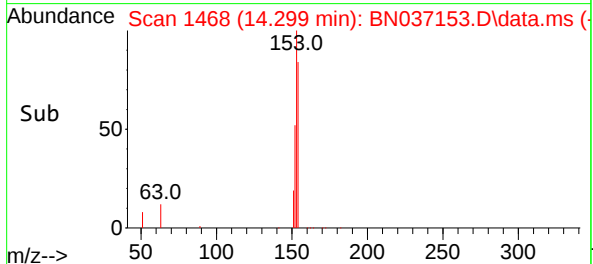
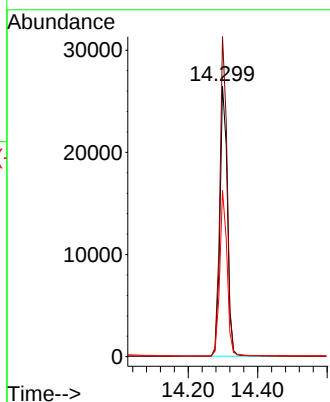
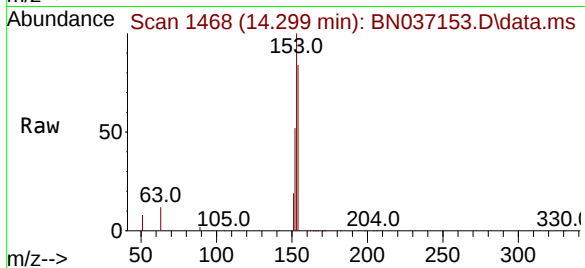




#17  
Acenaphthene  
Concen: 3.701 ng  
RT: 14.299 min Scan# 1468  
Delta R.T. -0.000 min  
Lab File: BN037153.D  
Acq: 03 Jun 2025 18:18

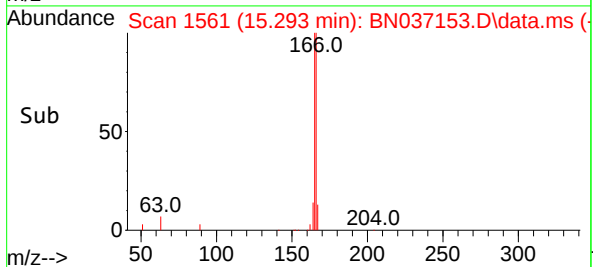
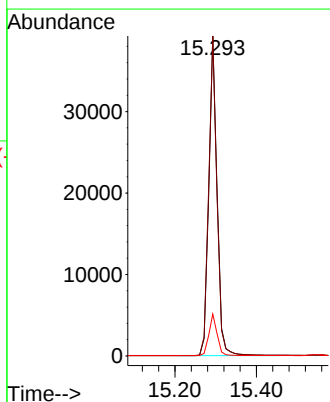
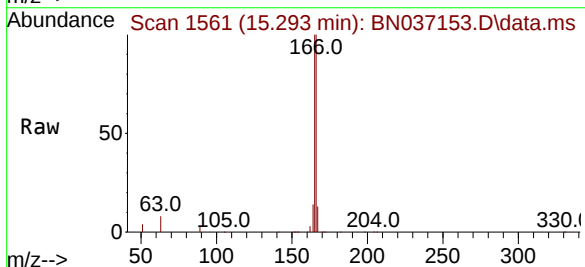
Instrument :  
BNA\_N  
ClientSampleId :  
38072-062624DL

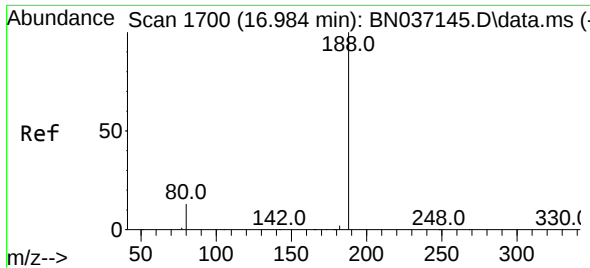
Tgt Ion:154 Resp: 39265  
Ion Ratio Lower Upper  
154 100  
153 116.2 93.8 140.8  
152 60.6 50.5 75.7



#18  
Fluorene  
Concen: 3.943 ng  
RT: 15.293 min Scan# 1561  
Delta R.T. -0.000 min  
Lab File: BN037153.D  
Acq: 03 Jun 2025 18:18

Tgt Ion:166 Resp: 54997  
Ion Ratio Lower Upper  
166 100  
165 100.2 81.1 121.7  
167 13.0 10.8 16.2

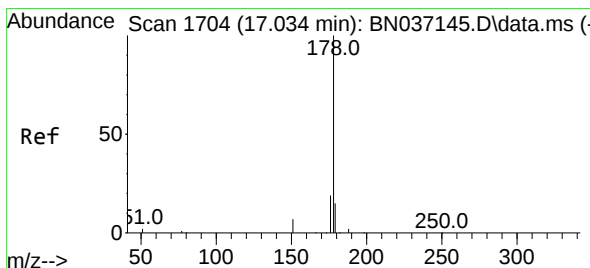
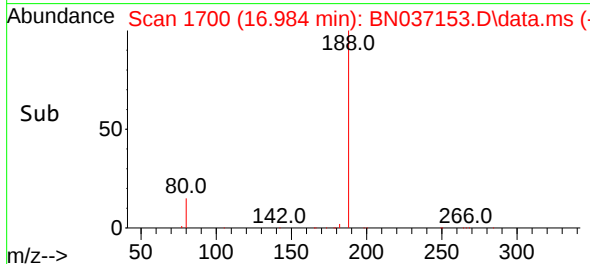
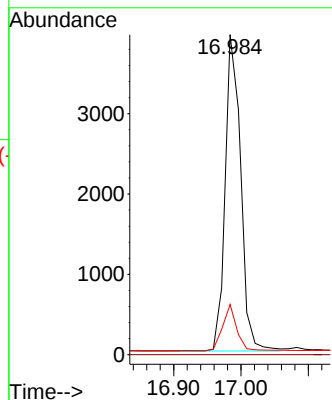
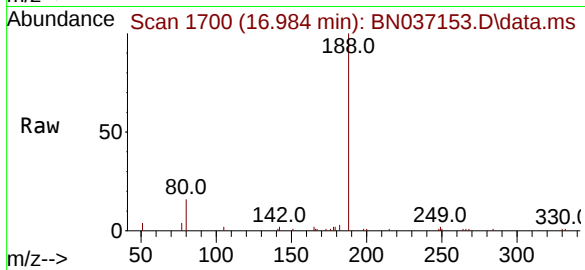




#19  
Phenanthrene-d10  
Concen: 0.400 ng  
RT: 16.984 min Scan# 11  
Delta R.T. -0.000 min  
Lab File: BN037153.D  
Acq: 03 Jun 2025 18:18

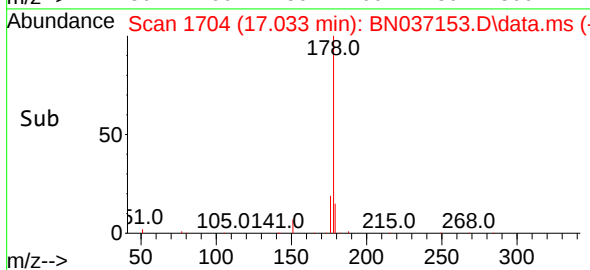
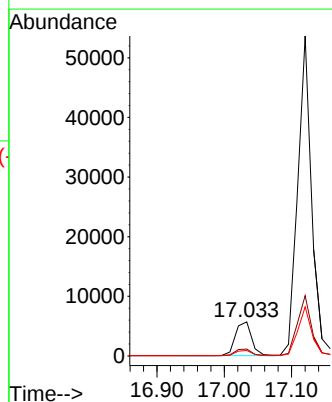
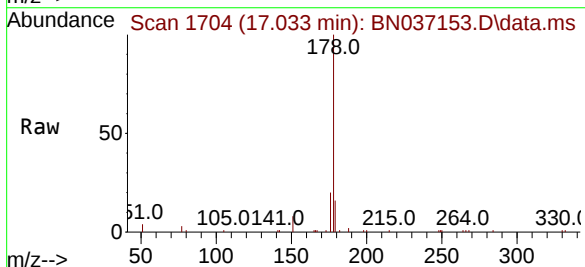
Instrument :  
BNA\_N  
ClientSampleId :  
38072-062624DL

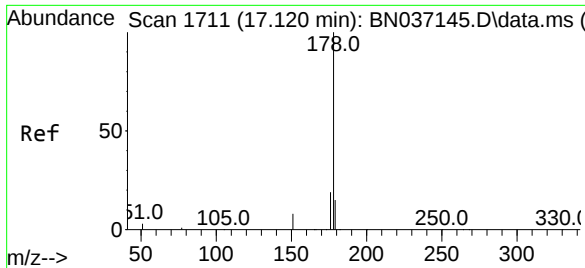
Tgt Ion:188 Resp: 6288  
Ion Ratio Lower Upper  
188 100  
94 0.0 0.0 0.0  
80 15.7 11.3 16.9



#25  
Phenanthrene  
Concen: 0.466 ng  
RT: 17.033 min Scan# 1704  
Delta R.T. -0.000 min  
Lab File: BN037153.D  
Acq: 03 Jun 2025 18:18

Tgt Ion:178 Resp: 9486  
Ion Ratio Lower Upper  
178 100  
176 19.6 15.7 23.5  
179 15.1 12.3 18.5

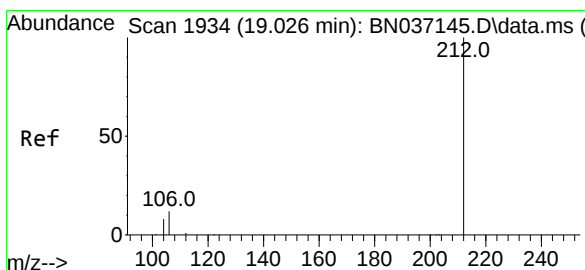
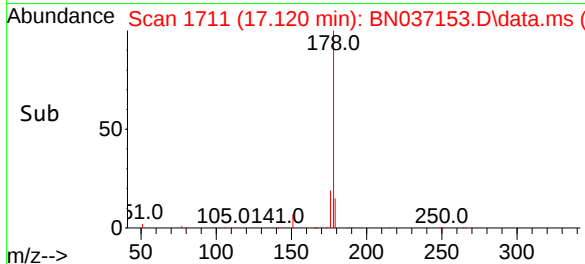
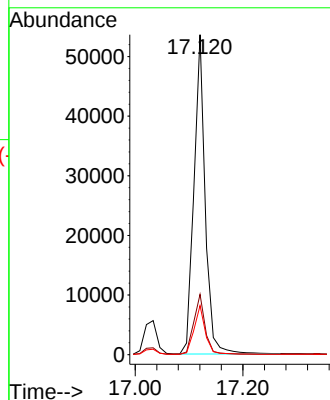
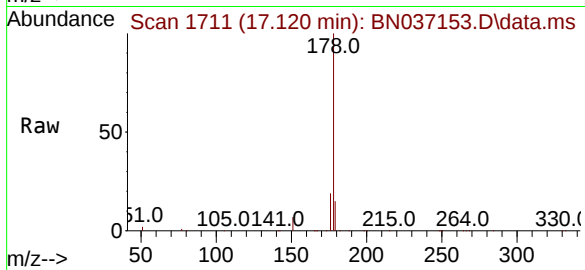




#26  
Anthracene  
Concen: 4.191 ng  
RT: 17.120 min Scan# 1711  
Delta R.T. -0.000 min  
Lab File: BN037153.D  
Acq: 03 Jun 2025 18:18

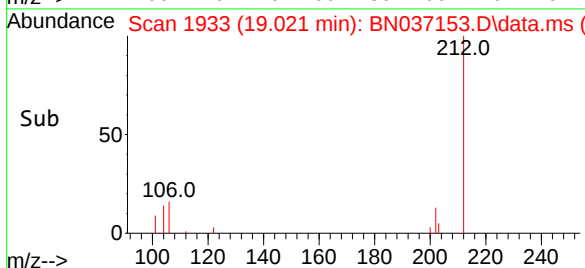
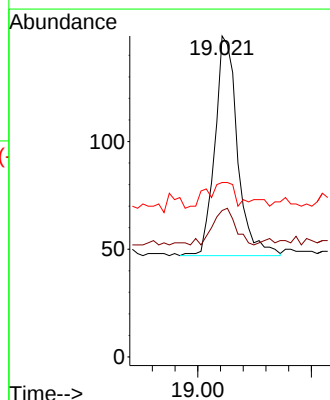
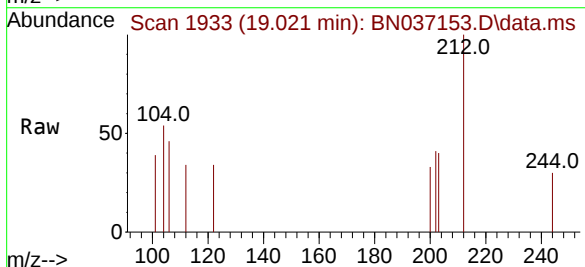
Instrument :  
BNA\_N  
ClientSampleId :  
38072-062624DL

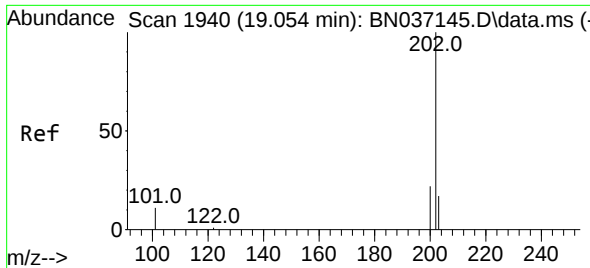
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 178     | 100   |       |       |
| 176     | 18.9  | 15.2  | 22.8  |
| 179     | 15.2  | 12.9  | 19.3  |



#27  
Fluoranthene-d10  
Concen: 0.009 ng  
RT: 19.021 min Scan# 1933  
Delta R.T. -0.005 min  
Lab File: BN037153.D  
Acq: 03 Jun 2025 18:18

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 212     | 100   |       |       |
| 106     | 17.0  | 10.6  | 15.8# |
| 104     | 14.2  | 6.6   | 9.8#  |

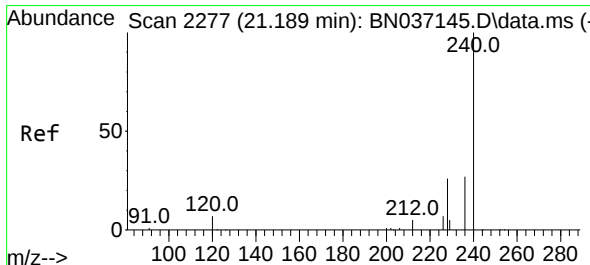
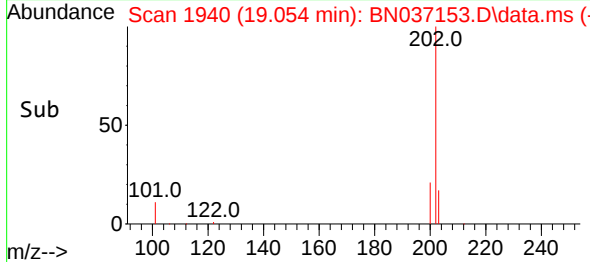
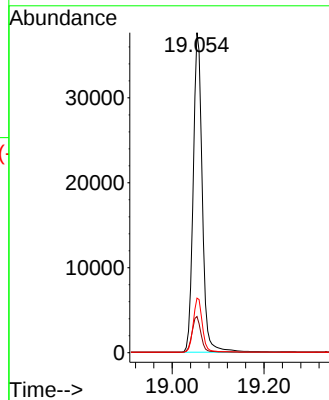
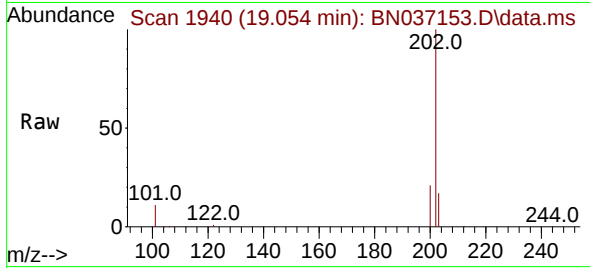




#28  
Fluoranthene  
Concen: 2.293 ng  
RT: 19.054 min Scan# 1940  
Delta R.T. -0.000 min  
Lab File: BN037153.D  
Acq: 03 Jun 2025 18:18

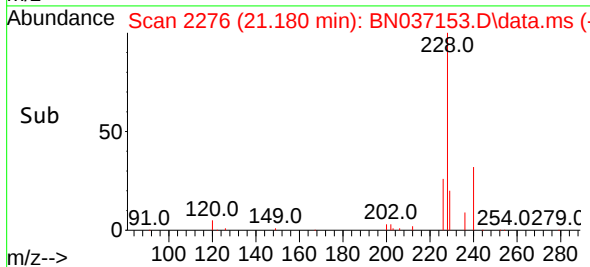
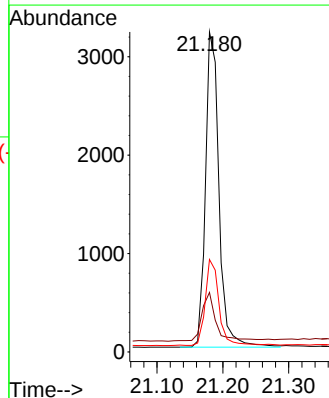
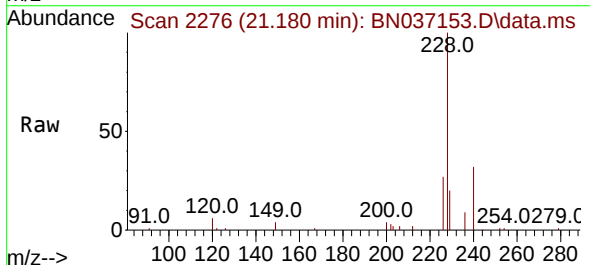
Instrument :  
BNA\_N  
ClientSampleId :  
38072-062624DL

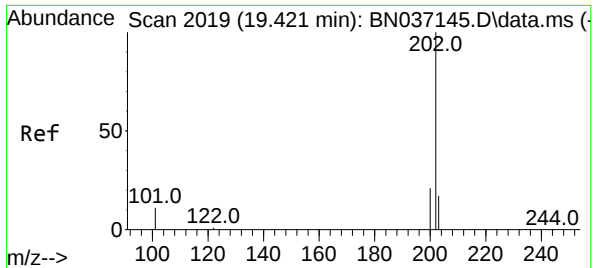
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 202     | 100   |       |       |
| 101     | 11.2  | 8.7   | 13.1  |
| 203     | 17.1  | 13.5  | 20.3  |



#29  
Chrysene-d12  
Concen: 0.400 ng  
RT: 21.180 min Scan# 2276  
Delta R.T. -0.009 min  
Lab File: BN037153.D  
Acq: 03 Jun 2025 18:18

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 240     | 100   |       |       |
| 120     | 18.6  | 9.0   | 13.4# |
| 236     | 28.9  | 23.0  | 34.4  |

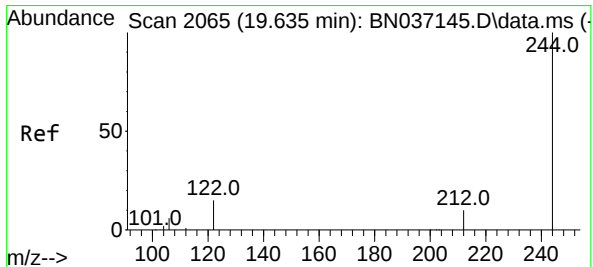
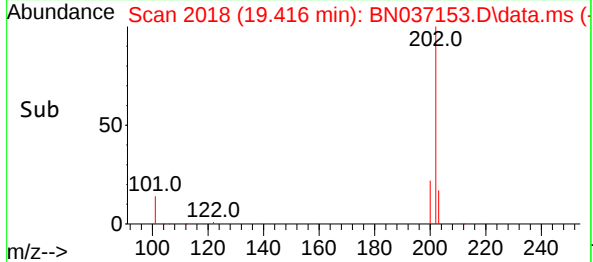
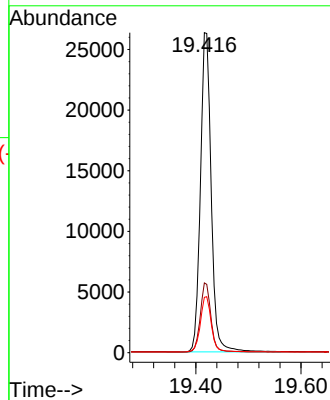
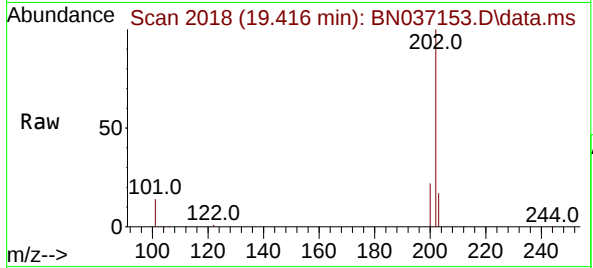




#30  
Pyrene  
Concen: 1.665 ng  
RT: 19.416 min Scan# 2019  
Delta R.T. -0.005 min  
Lab File: BN037153.D  
Acq: 03 Jun 2025 18:18

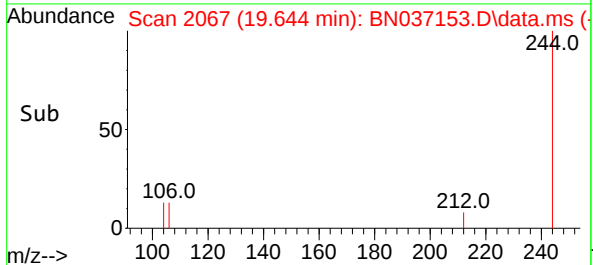
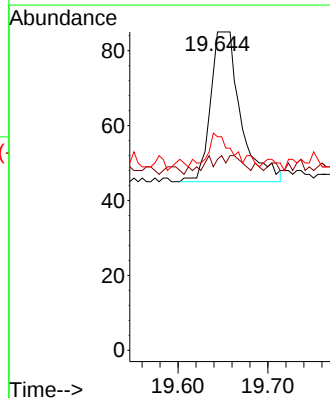
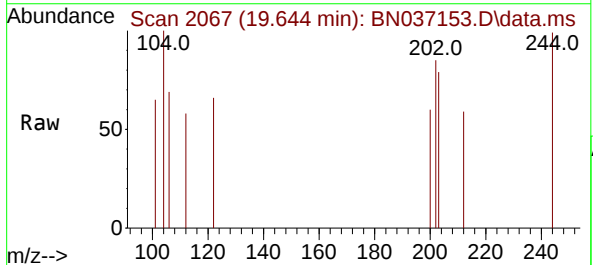
Instrument :  
BNA\_N  
ClientSampleId :  
38072-062624DL

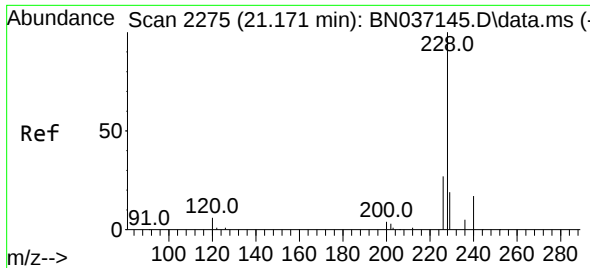
Tgt Ion:202 Resp: 37373  
Ion Ratio Lower Upper  
202 100  
200 21.5 17.0 25.6  
203 17.7 14.2 21.4



#31  
Terphenyl-d14  
Concen: 0.009 ng  
RT: 19.644 min Scan# 2067  
Delta R.T. 0.009 min  
Lab File: BN037153.D  
Acq: 03 Jun 2025 18:18

Tgt Ion:244 Resp: 93  
Ion Ratio Lower Upper  
244 100  
212 60.0 10.0 15.0#  
122 67.1 13.2 19.8#

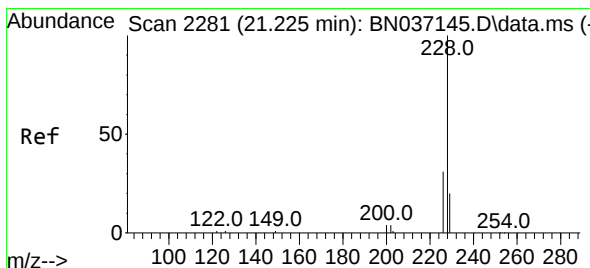
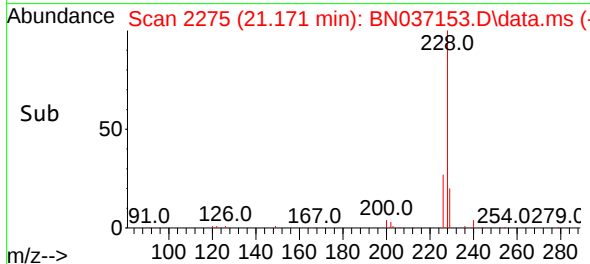
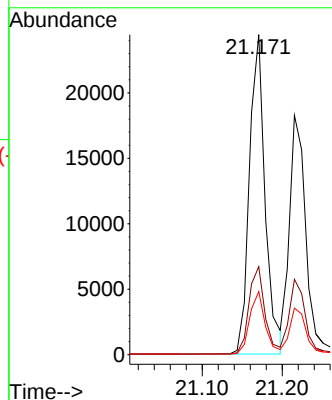
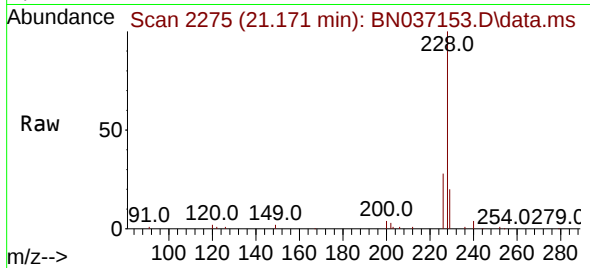




#32  
Benzo(a)anthracene  
Concen: 2.002 ng  
RT: 21.171 min Scan# 2117  
Delta R.T. -0.000 min  
Lab File: BN037153.D  
Acq: 03 Jun 2025 18:18

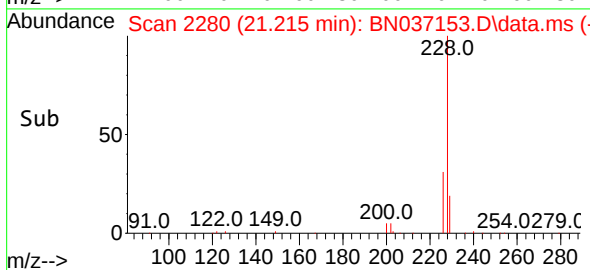
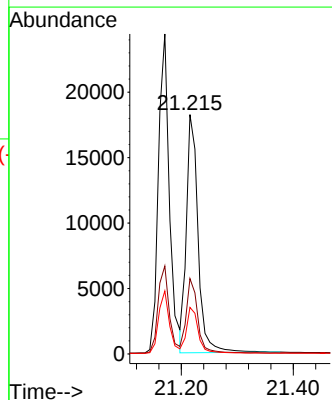
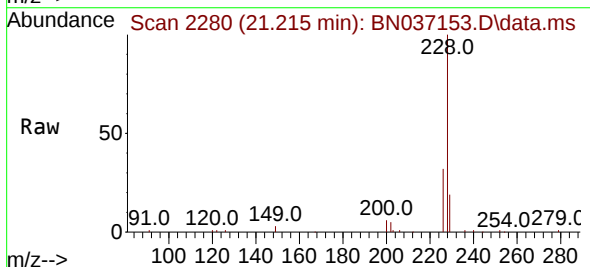
Instrument :  
BNA\_N  
ClientSampleId :  
38072-062624DL

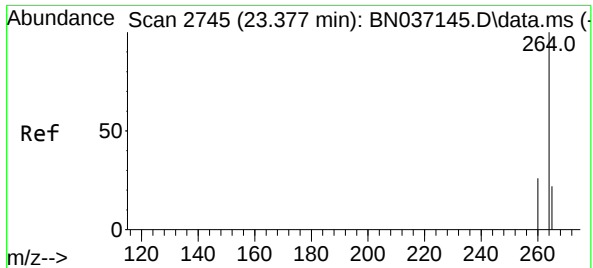
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 228     | 100   |       |       |
| 226     | 27.5  | 22.6  | 33.8  |
| 229     | 19.7  | 16.2  | 24.2  |



#33  
Chrysene  
Concen: 1.427 ng  
RT: 21.215 min Scan# 2280  
Delta R.T. -0.009 min  
Lab File: BN037153.D  
Acq: 03 Jun 2025 18:18

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 228     | 100   |       |       |
| 226     | 31.5  | 25.2  | 37.8  |
| 229     | 19.5  | 16.8  | 25.2  |

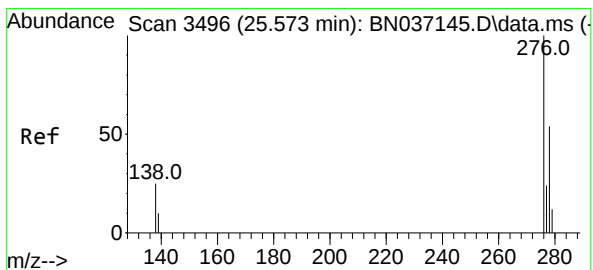
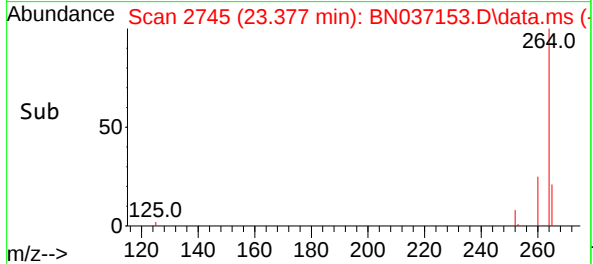
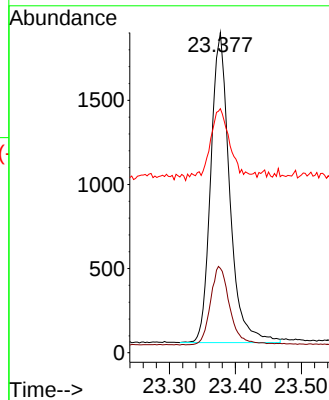
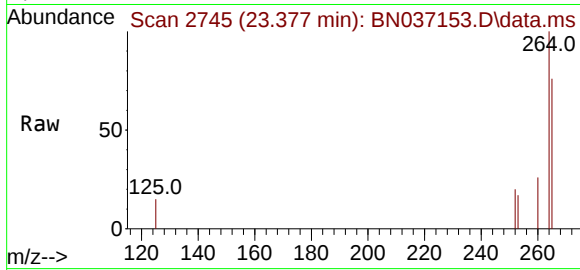




#35  
Perylene-d12  
Concen: 0.400 ng  
RT: 23.377 min Scan# 21  
Delta R.T. -0.000 min  
Lab File: BN037153.D  
Acq: 03 Jun 2025 18:18

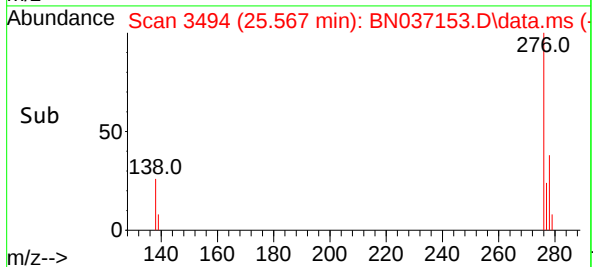
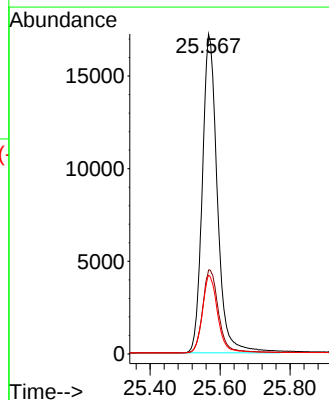
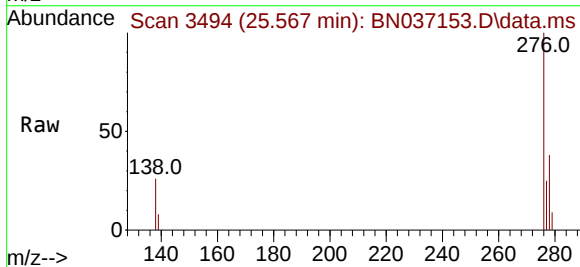
Instrument :  
BNA\_N  
ClientSampleId :  
38072-062624DL

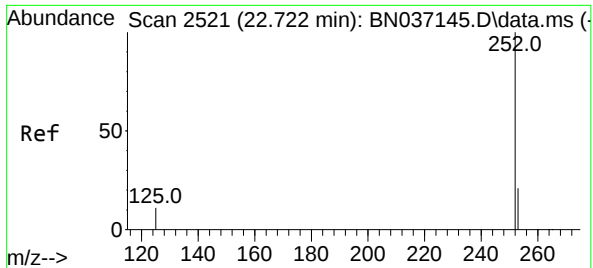
|           |       |       |      |
|-----------|-------|-------|------|
| Tgt Ion:  | 264   | Resp: | 3669 |
| Ion Ratio | Lower | Upper |      |
| 264       | 100   |       |      |
| 260       | 26.3  | 22.1  | 33.1 |
| 265       | 76.2  | 55.8  | 83.8 |



#36  
Indeno(1,2,3-cd)pyrene  
Concen: 3.526 ng  
RT: 25.567 min Scan# 3494  
Delta R.T. -0.006 min  
Lab File: BN037153.D  
Acq: 03 Jun 2025 18:18

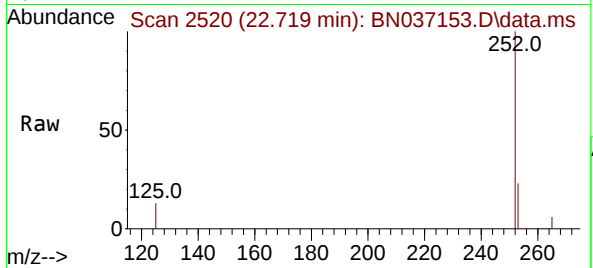
|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 276   | Resp: | 51464 |
| Ion Ratio | Lower | Upper |       |
| 276       | 100   |       |       |
| 138       | 27.3  | 21.0  | 31.6  |
| 277       | 24.5  | 19.4  | 29.2  |



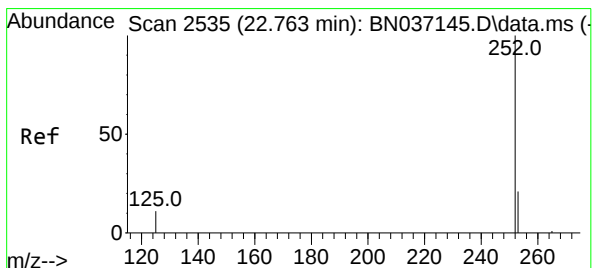
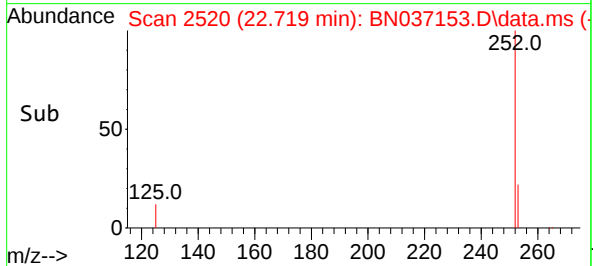
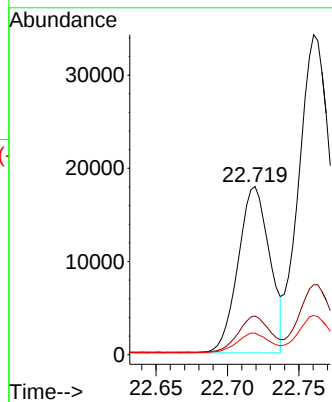


#37  
Benzo(b)fluoranthene  
Concen: 1.858 ng  
RT: 22.719 min Scan# 2520  
Delta R.T. -0.003 min  
Lab File: BN037153.D  
Acq: 03 Jun 2025 18:18

Instrument :  
BNA\_N  
ClientSampleId :  
38072-062624DL

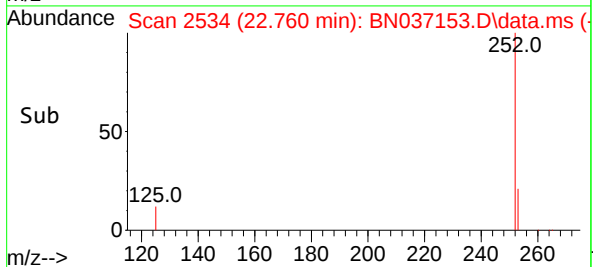
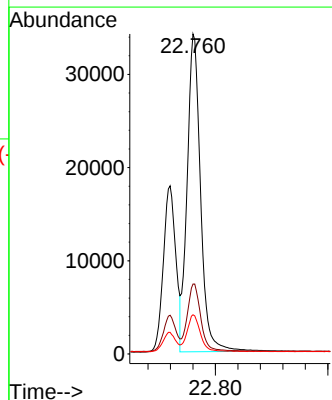
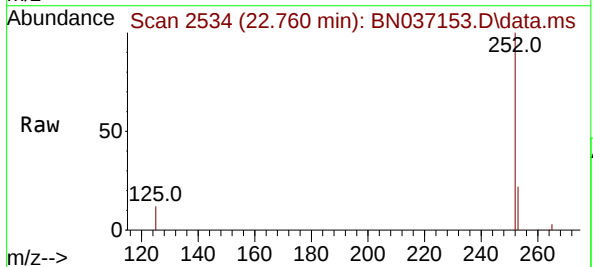


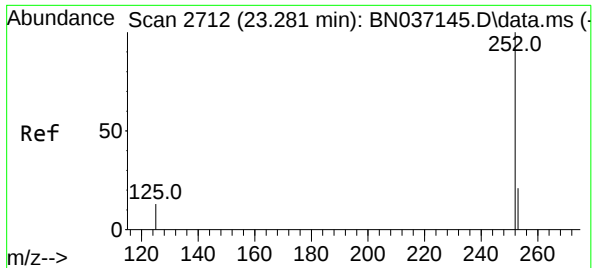
Tgt Ion:252 Resp: 27512  
Ion Ratio Lower Upper  
252 100  
253 23.0 22.3 33.5  
125 12.9 13.2 19.8#



#38  
Benzo(k)fluoranthene  
Concen: 3.738 ng  
RT: 22.760 min Scan# 2534  
Delta R.T. -0.003 min  
Lab File: BN037153.D  
Acq: 03 Jun 2025 18:18

Tgt Ion:252 Resp: 56528  
Ion Ratio Lower Upper  
252 100  
253 21.8 22.2 33.4#  
125 12.3 13.2 19.8#





#39

Benzo(a)pyrene

Concen: 1.950 ng

RT: 23.278 min Scan# 21

Delta R.T. -0.003 min

Lab File: BN037153.D

Acq: 03 Jun 2025 18:18

Instrument :

BNA\_N

ClientSampleId :

38072-062624DL

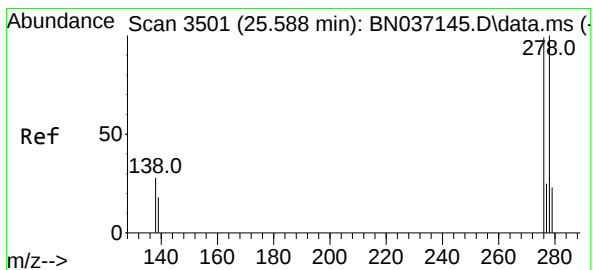
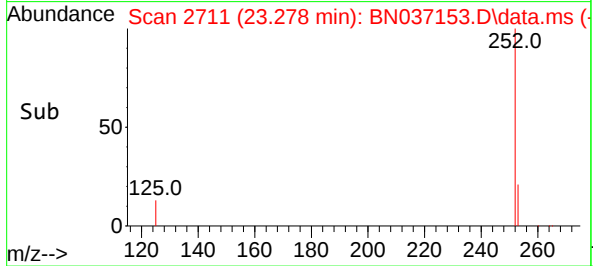
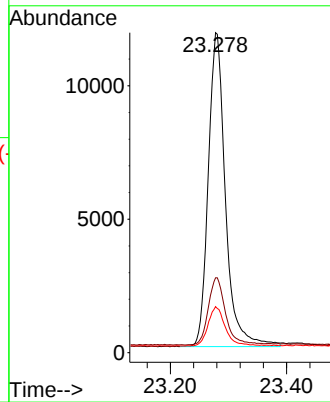
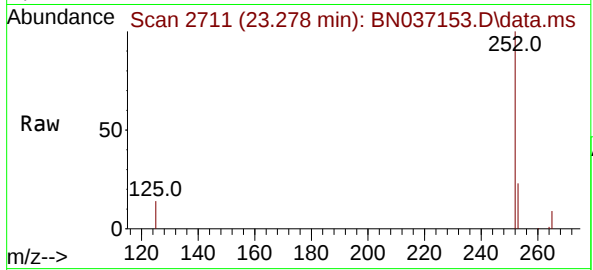
Tgt Ion:252 Resp: 24186

Ion Ratio Lower Upper

252 100

253 23.4 25.0 37.4#

125 14.4 17.0 25.6#



#40

Dibenzo(a,h)anthracene

Concen: 2.737 ng

RT: 25.582 min Scan# 3499

Delta R.T. -0.006 min

Lab File: BN037153.D

Acq: 03 Jun 2025 18:18

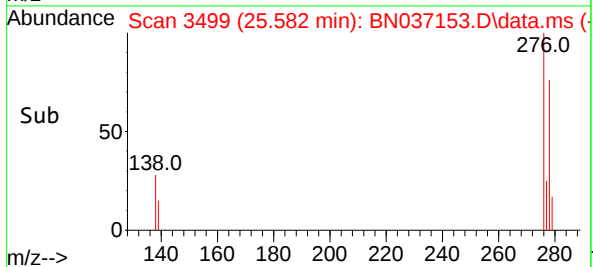
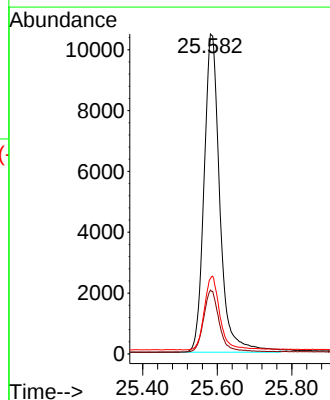
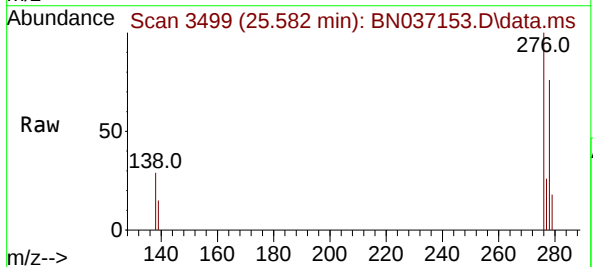
Tgt Ion:278 Resp: 30813

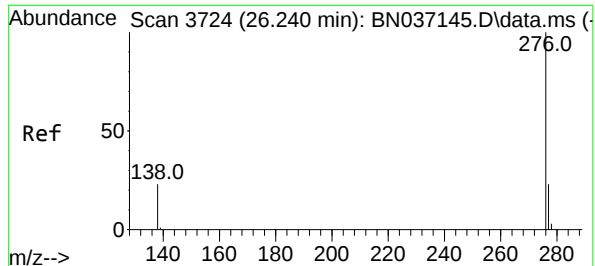
Ion Ratio Lower Upper

278 100

139 19.9 17.6 26.4

279 23.6 26.0 39.0#





#41

Benzo(g,h,i)perylene

Concen: 2.517 ng

RT: 26.236 min Scan# 31

Delta R.T. -0.003 min

Lab File: BN037153.D

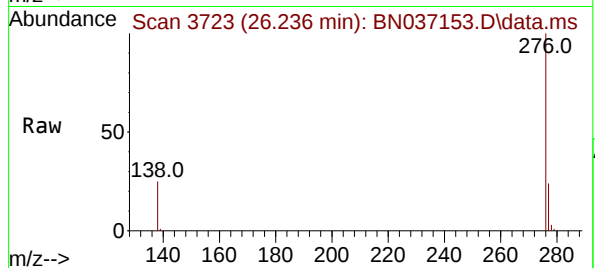
Acq: 03 Jun 2025 18:18

Instrument :

BNA\_N

ClientSampleId :

38072-062624DL



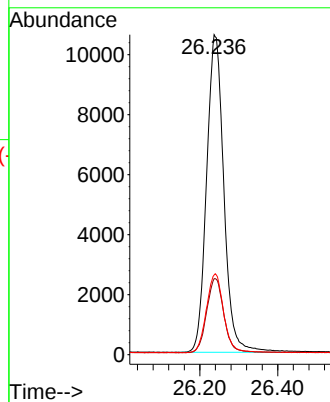
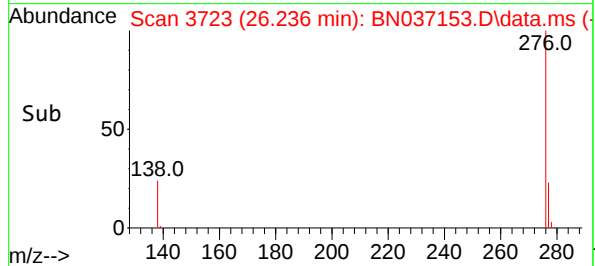
Tgt Ion:276 Resp: 32541

Ion Ratio Lower Upper

276 100

277 23.8 20.9 31.3

138 24.9 20.8 31.2





# CALIBRATION SUMMARY

|    |
|----|
| 1  |
| 2  |
| 3  |
| 4  |
| 5  |
| 6  |
| 7  |
| 8  |
| 9  |
| 10 |
| 11 |
| 12 |
| 13 |
| 14 |
| 15 |
| 16 |
| 17 |

Method Path : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\  
 Method File : 8270-SIM-BN060325.M  
 Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 Last Update : Wed Jun 04 01:52:03 2025  
 Response Via : Initial Calibration

## Calibration Files

0.1 =BN037143.D 0.2 =BN037144.D 0.4 =BN037145.D 0.8 =BN037146.D 1.6 =BN037147.D 3.2 =BN037148.D 5.0 =BN037149.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           | 0.598          | 0.657 | 0.510 | 0.506 | 0.526 | 0.477 | 0.458 | 0.533 | 13.16 |
| 3)        | n-Nitrosodimet...     | 1.098          | 1.031 | 1.061 | 1.067 | 1.163 | 1.061 | 1.012 | 1.071 | 4.60  |
| 4) S      | 2-Fluorophenol        | 1.027          | 1.017 | 0.940 | 0.945 | 1.036 | 0.984 | 0.975 | 0.989 | 3.91  |
| 5) S      | Phenol-d6             | 1.156          | 1.144 | 1.127 | 1.126 | 1.293 | 1.261 | 1.285 | 1.199 | 6.42  |
| 6)        | bis(2-Chloroet...     | 1.138          | 1.139 | 1.128 | 1.089 | 1.223 | 1.146 | 1.146 | 1.144 | 3.51  |
|           |                       |                |       |       |       |       |       |       |       |       |
| 7) I      | Naphthalene-d8        | -----ISTD----- |       |       |       |       |       |       |       |       |
| 8) S      | Nitrobenzene-d5       | 0.393          | 0.383 | 0.421 | 0.407 | 0.455 | 0.450 | 0.446 | 0.422 | 6.86  |
| 9)        | Naphthalene           | 1.183          | 1.125 | 1.119 | 1.111 | 1.215 | 1.165 | 1.160 | 1.154 | 3.31  |
| 10)       | Hexachlorobuta...     | 0.253          | 0.249 | 0.261 | 0.247 | 0.266 | 0.246 | 0.238 | 0.251 | 3.81  |
| 11) SURR2 | Methylnaphth...       | 0.520          | 0.515 | 0.562 | 0.536 | 0.598 | 0.577 | 0.588 | 0.557 | 5.97  |
| 12)       | 2-Methylnaphth...     | 0.704          | 0.680 | 0.691 | 0.719 | 0.809 | 0.783 | 0.793 | 0.740 | 7.22  |
|           |                       |                |       |       |       |       |       |       |       |       |
| 13) I     | Acenaphthene-d10      | -----ISTD----- |       |       |       |       |       |       |       |       |
| 14) S     | 2,4,6-Tribromo...     | 0.124          | 0.147 | 0.146 | 0.157 | 0.185 | 0.182 | 0.186 | 0.161 | 15.03 |
| 15) S     | 2-Fluorobiphenyl      | 1.722          | 1.691 | 1.626 | 1.654 | 1.814 | 1.706 | 1.725 | 1.705 | 3.52  |
| 16)       | Acenaphthylene        | 1.946          | 1.905 | 1.768 | 1.871 | 2.112 | 2.050 | 2.075 | 1.961 | 6.32  |
| 17)       | Acenaphthene          | 1.290          | 1.253 | 1.159 | 1.212 | 1.370 | 1.309 | 1.320 | 1.273 | 5.59  |
| 18)       | Fluorene              | 1.701          | 1.577 | 1.518 | 1.611 | 1.823 | 1.736 | 1.752 | 1.674 | 6.48  |
|           |                       |                |       |       |       |       |       |       |       |       |
| 19) I     | Phenanthrene-d10      | -----ISTD----- |       |       |       |       |       |       |       |       |
| 20)       | 4,6-Dinitro-2-...     | 0.039          | 0.050 | 0.067 | 0.090 | 0.102 | 0.114 | 0.077 |       | 38.58 |
| 21)       | 4-Bromophenyl-...     | 0.256          | 0.253 | 0.244 | 0.254 | 0.281 | 0.276 | 0.271 | 0.262 | 5.32  |
| 22)       | Hexachlorobenzene     | 0.289          | 0.284 | 0.269 | 0.279 | 0.301 | 0.284 | 0.274 | 0.283 | 3.72  |
| 23)       | Atrazine              | 0.194          | 0.200 | 0.187 | 0.209 | 0.241 | 0.238 | 0.247 | 0.216 | 11.42 |
| 24)       | Pentachlorophenol     | 0.086          | 0.086 | 0.092 | 0.107 | 0.140 | 0.153 | 0.165 | 0.124 | 26.72 |
| 25)       | Phenanthrene          | 1.285          | 1.242 | 1.193 | 1.248 | 1.386 | 1.357 | 1.361 | 1.296 | 5.64  |
| 26)       | Anthracene            | 1.098          | 1.099 | 1.036 | 1.143 | 1.294 | 1.290 | 1.317 | 1.183 | 9.71  |
| 27) SURR  | Fluoranthene-d10      | 0.969          | 0.937 | 0.975 | 0.956 | 1.092 | 1.071 | 1.114 | 1.016 | 7.22  |
| 28)       | Fluoranthene          | 1.339          | 1.294 | 1.277 | 1.365 | 1.579 | 1.563 | 1.605 | 1.432 | 10.09 |
|           |                       |                |       |       |       |       |       |       |       |       |
| 29) I     | Chrysene-d12          | -----ISTD----- |       |       |       |       |       |       |       |       |
| 30)       | Pyrene                | 2.051          | 1.974 | 1.827 | 1.928 | 2.048 | 1.955 | 1.885 | 1.953 | 4.20  |
| 31) S     | Terphenyl-d14         | 0.964          | 0.909 | 0.896 | 0.941 | 1.006 | 0.952 | 0.923 | 0.942 | 3.96  |
| 32)       | Benzo(a)anthra...     | 1.369          | 1.367 | 1.291 | 1.404 | 1.582 | 1.553 | 1.570 | 1.448 | 8.15  |
| 33)       | Chrysene              | 1.755          | 1.636 | 1.473 | 1.582 | 1.698 | 1.584 | 1.556 | 1.612 | 5.81  |
| 34)       | Bis(2-ethylhex...     | 1.032          | 0.859 | 0.774 | 0.858 | 0.956 | 0.914 | 1.002 | 0.914 | 9.90  |
|           |                       |                |       |       |       |       |       |       |       |       |
| 35) I     | Perylene-d12          | -----ISTD----- |       |       |       |       |       |       |       |       |

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

Method File : 8270-SIM-BN060325.M

|       |                   |       |       |       |       |       |       |       |       |      |
|-------|-------------------|-------|-------|-------|-------|-------|-------|-------|-------|------|
| 36)   | Indeno(1,2,3-c... | 1.443 | 1.605 | 1.501 | 1.526 | 1.695 | 1.673 | 1.697 | 1.591 | 6.44 |
| 37)   | Benzo(b)fluora... | 1.529 | 1.520 | 1.421 | 1.575 | 1.763 | 1.713 | 1.781 | 1.615 | 8.58 |
| 38)   | Benzo(k)fluora... | 1.576 | 1.565 | 1.461 | 1.612 | 1.777 | 1.743 | 1.805 | 1.648 | 7.79 |
| 39) C | Benzo(a)pyrene    | 1.310 | 1.287 | 1.219 | 1.294 | 1.451 | 1.426 | 1.481 | 1.352 | 7.32 |
| 40)   | Dibenzo(a,h)an... | 1.074 | 1.167 | 1.160 | 1.196 | 1.333 | 1.332 | 1.328 | 1.227 | 8.48 |
| 41)   | Benzo(g,h,i)pe... | 1.368 | 1.450 | 1.351 | 1.372 | 1.477 | 1.424 | 1.425 | 1.410 | 3.33 |

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(#) = Out of Range

Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN060325\  
 Data File : BN037143.D  
 Acq On : 03 Jun 2025 11:39  
 Operator : RC/JU  
 Sample : SSTDICC0.1  
 Misc :  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 BNA\_N  
 ClientSampleId :  
 SSTDICC0.1

Quant Time: Jun 04 01:41:16 2025  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\8270-SIM-BN060325.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Wed Jun 04 01:40:18 2025  
 Response via : Initial Calibration

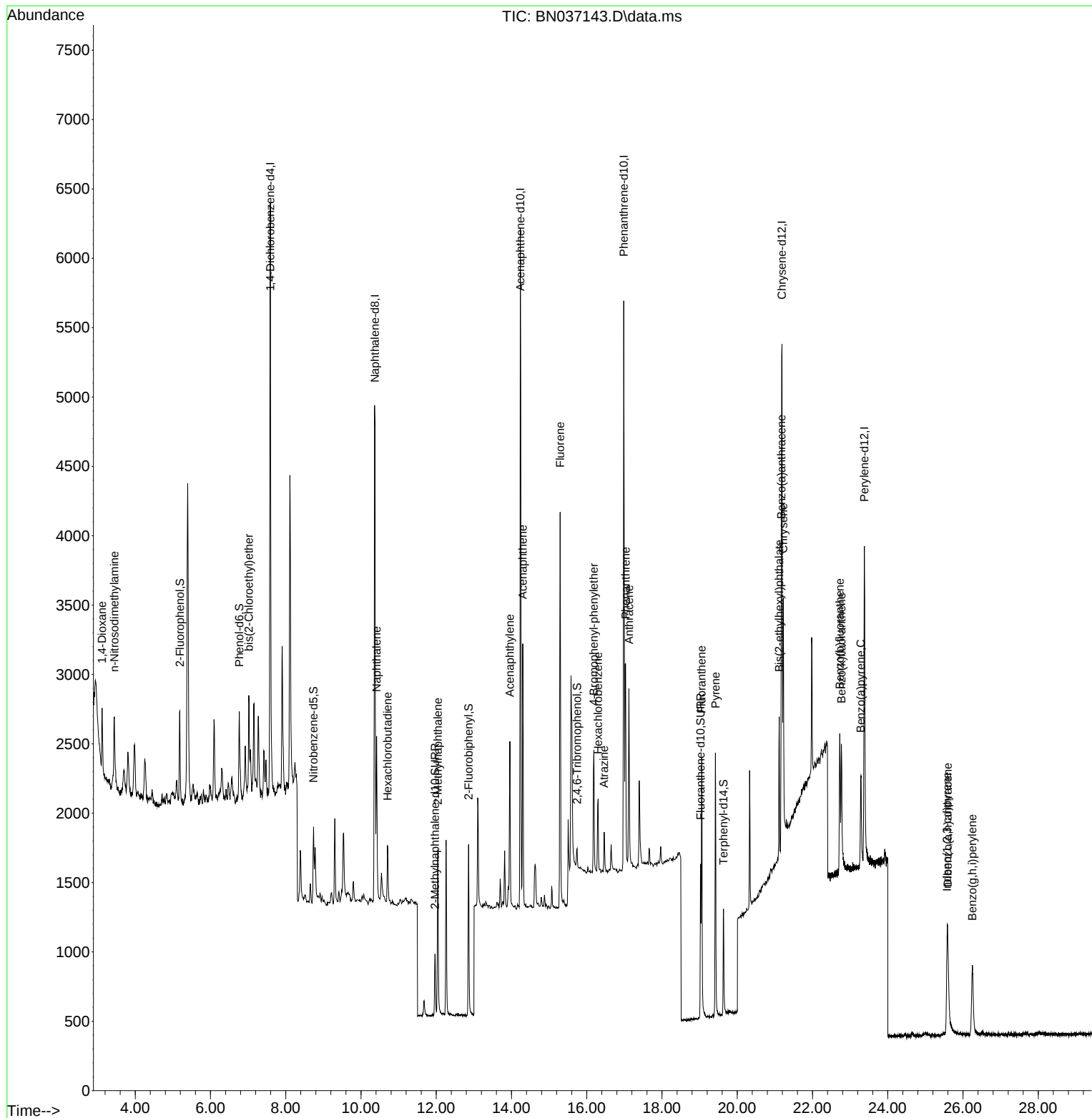
| Compound                      | R.T.   | QIon | Response | Conc  | Units | Dev(Min)  |
|-------------------------------|--------|------|----------|-------|-------|-----------|
| Internal Standards            |        |      |          |       |       |           |
| 1) 1,4-Dichlorobenzene-d4     | 7.590  | 152  | 2014     | 0.400 | ng    | 0.00      |
| 7) Naphthalene-d8             | 10.372 | 136  | 4942     | 0.400 | ng    | 0.00      |
| 13) Acenaphthene-d10          | 14.235 | 164  | 2688     | 0.400 | ng    | 0.00      |
| 19) Phenanthrene-d10          | 16.984 | 188  | 5431     | 0.400 | ng    | 0.00      |
| 29) Chrysene-d12              | 21.189 | 240  | 3598     | 0.400 | ng    | # 0.00    |
| 35) Perylene-d12              | 23.380 | 264  | 3208     | 0.400 | ng    | 0.00      |
| System Monitoring Compounds   |        |      |          |       |       |           |
| 4) 2-Fluorophenol             | 5.184  | 112  | 517      | 0.104 | ng    | 0.00      |
| 5) Phenol-d6                  | 6.766  | 99   | 582      | 0.096 | ng    | 0.00      |
| 8) Nitrobenzene-d5            | 8.739  | 82   | 486      | 0.093 | ng    | 0.00      |
| 11) 2-Methylnaphthalene-d10   | 11.966 | 152  | 643      | 0.093 | ng    | 0.00      |
| 14) 2,4,6-Tribromophenol      | 15.743 | 330  | 83       | 0.077 | ng    | 0.00      |
| 15) 2-Fluorobiphenyl          | 12.858 | 172  | 1157     | 0.101 | ng    | 0.00      |
| 27) Fluoranthene-d10          | 19.026 | 212  | 1316     | 0.095 | ng    | 0.00      |
| 31) Terphenyl-d14             | 19.635 | 244  | 867      | 0.102 | ng    | 0.00      |
| Target Compounds              |        |      |          |       |       |           |
| 2) 1,4-Dioxane                | 3.119  | 88   | 301      | 0.112 | ng    | Qvalue 97 |
| 3) n-Nitrosodimethylamine     | 3.444  | 42   | 553      | 0.103 | ng    | 95        |
| 6) bis(2-Chloroethyl)ether    | 7.019  | 93   | 573      | 0.099 | ng    | 95        |
| 9) Naphthalene                | 10.415 | 128  | 1462     | 0.103 | ng    | # 93      |
| 10) Hexachlorobutadiene       | 10.703 | 225  | 312      | 0.100 | ng    | # 98      |
| 12) 2-Methylnaphthalene       | 12.042 | 142  | 870      | 0.095 | ng    | 97        |
| 16) Acenaphthylene            | 13.957 | 152  | 1308     | 0.099 | ng    | 100       |
| 17) Acenaphthene              | 14.299 | 154  | 867      | 0.101 | ng    | 99        |
| 18) Fluorene                  | 15.293 | 166  | 1143     | 0.102 | ng    | 99        |
| 21) 4-Bromophenyl-phenylether | 16.190 | 248  | 347      | 0.097 | ng    | 96        |
| 22) Hexachlorobenzene         | 16.301 | 284  | 392      | 0.102 | ng    | 99        |
| 23) Atrazine                  | 16.463 | 200  | 264      | 0.090 | ng    | # 91      |
| 25) Phenanthrene              | 17.034 | 178  | 1745     | 0.099 | ng    | 98        |
| 26) Anthracene                | 17.120 | 178  | 1491     | 0.093 | ng    | 98        |
| 28) Fluoranthene              | 19.054 | 202  | 1818     | 0.094 | ng    | 99        |
| 30) Pyrene                    | 19.421 | 202  | 1845     | 0.105 | ng    | 99        |
| 32) Benzo(a)anthracene        | 21.171 | 228  | 1231     | 0.095 | ng    | 93        |
| 33) Chrysene                  | 21.225 | 228  | 1579     | 0.109 | ng    | 97        |
| 34) Bis(2-ethylhexyl)phtha... | 21.117 | 149  | 928      | 0.113 | ng    | 97        |
| 36) Indeno(1,2,3-cd)pyrene    | 25.576 | 276  | 1157     | 0.091 | ng    | 97        |
| 37) Benzo(b)fluoranthene      | 22.725 | 252  | 1226     | 0.095 | ng    | # 65      |
| 38) Benzo(k)fluoranthene      | 22.766 | 252  | 1264     | 0.096 | ng    | # 64      |
| 39) Benzo(a)pyrene            | 23.284 | 252  | 1051     | 0.097 | ng    | # 52      |
| 40) Dibenzo(a,h)anthracene    | 25.594 | 278  | 861      | 0.087 | ng    | # 56      |
| 41) Benzo(g,h,i)perylene      | 26.248 | 276  | 1097     | 0.097 | ng    | # 82      |

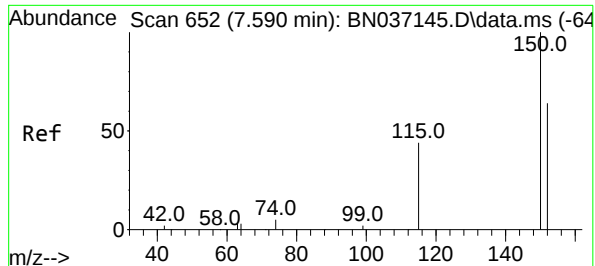
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Acq On : 03 Jun 2025 11:39  
Operator : RC/JU  
Sample : SSTDICC0.1  
Misc :  
ALS Vial : 2 Sample Multiplier: 1

Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC0.1

Quant Time: Jun 04 01:41:16 2025  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\8270-SIM-BN060325.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Wed Jun 04 01:40:18 2025  
Response via : Initial Calibration

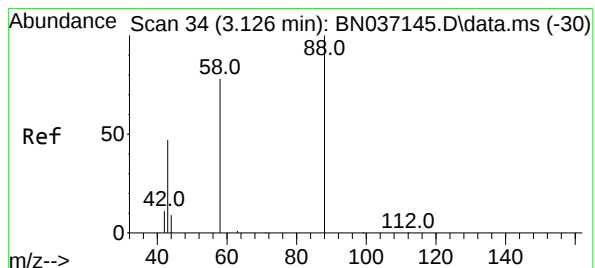
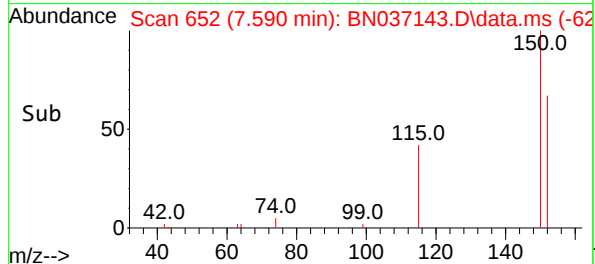
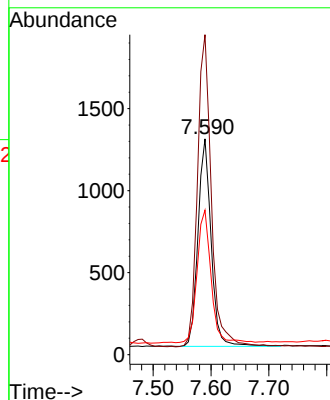
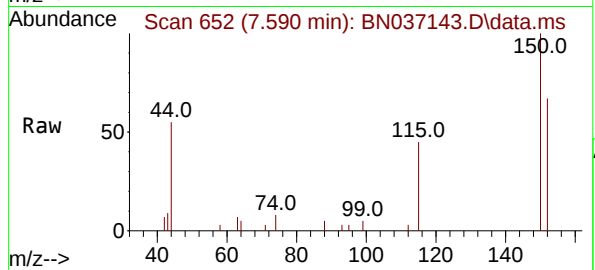




#1  
1,4-Dichlorobenzene-d4  
Concen: 0.400 ng  
RT: 7.590 min Scan# 61  
Delta R.T. -0.000 min  
Lab File: BN037143.D  
Acq: 03 Jun 2025 11:39

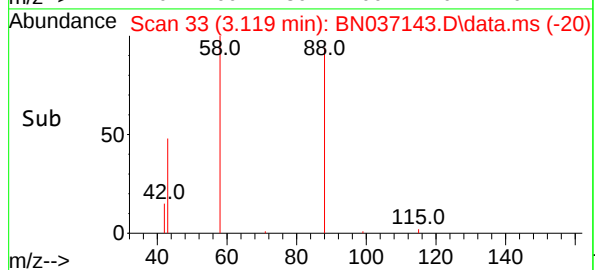
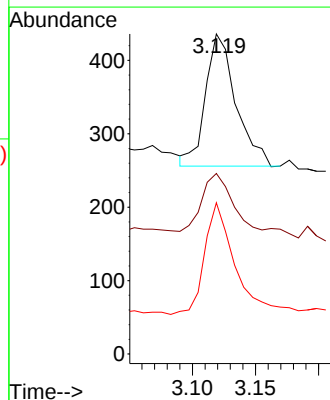
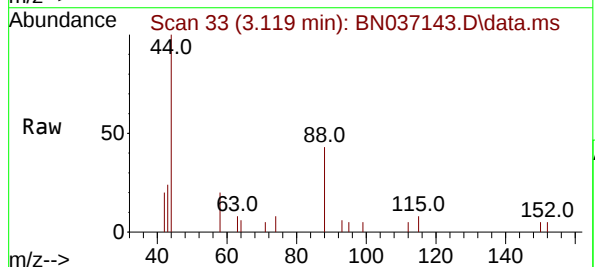
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC0.1

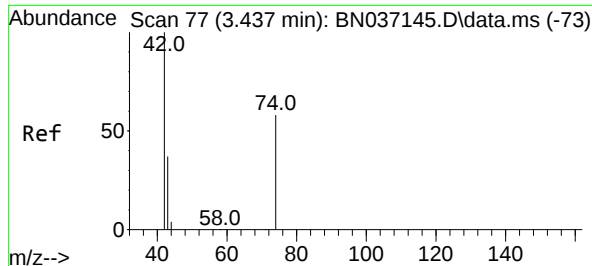
Tgt Ion:152 Resp: 2014  
Ion Ratio Lower Upper  
152 100  
150 148.3 123.2 184.8  
115 66.9 56.6 85.0



#2  
1,4-Dioxane  
Concen: 0.112 ng  
RT: 3.119 min Scan# 33  
Delta R.T. -0.007 min  
Lab File: BN037143.D  
Acq: 03 Jun 2025 11:39

Tgt Ion: 88 Resp: 301  
Ion Ratio Lower Upper  
88 100  
43 58.8 43.5 65.3  
58 85.4 67.7 101.5

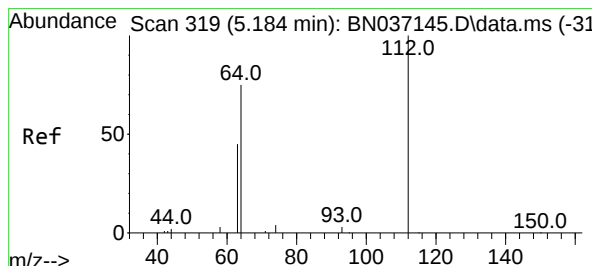
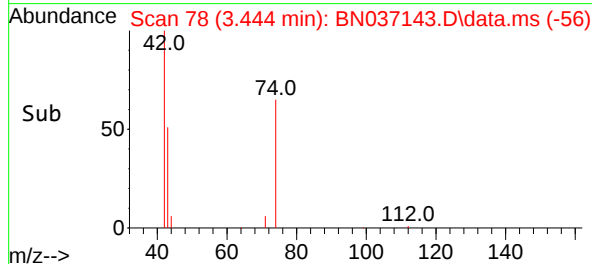
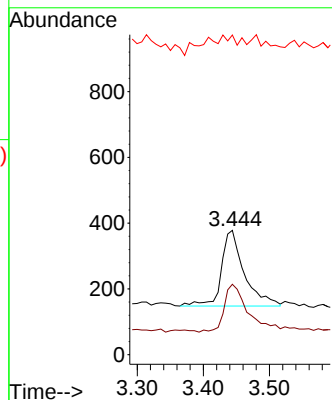
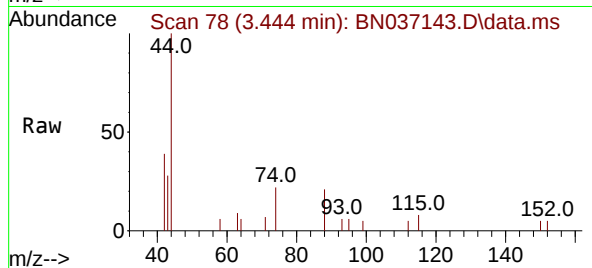




#3  
n-Nitrosodimethylamine  
Concen: 0.103 ng  
RT: 3.444 min Scan# 71  
Delta R.T. 0.007 min  
Lab File: BN037143.D  
Acq: 03 Jun 2025 11:39

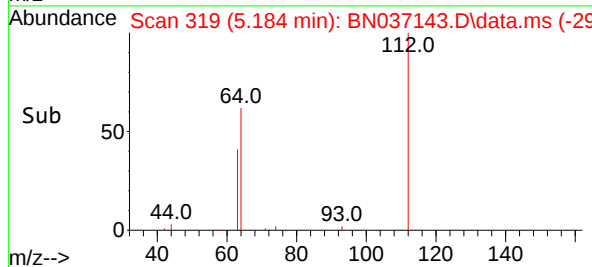
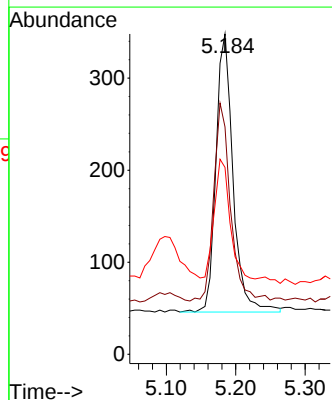
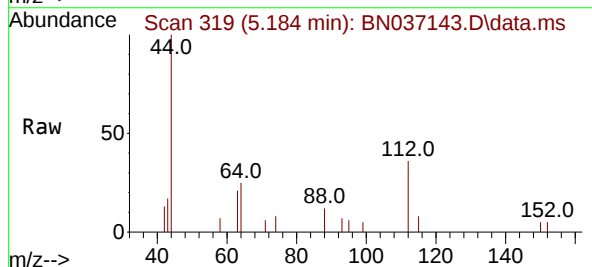
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BNA\_N  
ClientSampleId :  
SSTDICC0.1

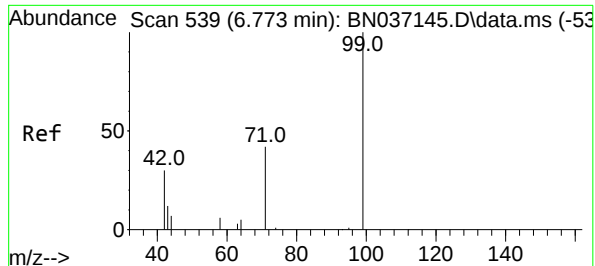
Tgt Ion: 42 Resp: 553  
Ion Ratio Lower Upper  
42 100  
74 70.2 53.0 79.4  
44 6.9 5.9 8.9



#4  
2-Fluorophenol  
Concen: 0.104 ng  
RT: 5.184 min Scan# 319  
Delta R.T. 0.000 min  
Lab File: BN037143.D  
Acq: 03 Jun 2025 11:39

Tgt Ion: 112 Resp: 517  
Ion Ratio Lower Upper  
112 100  
64 70.8 56.3 84.5  
63 39.7 36.2 54.4

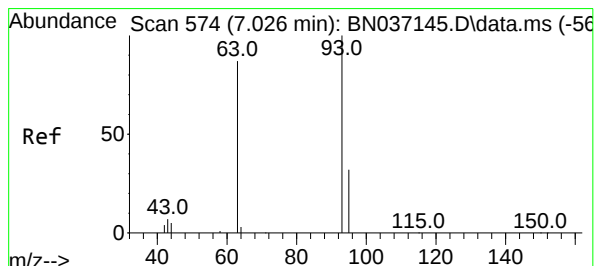
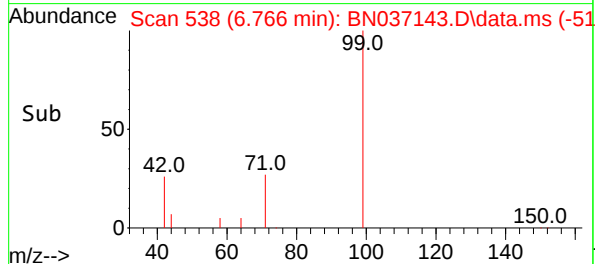
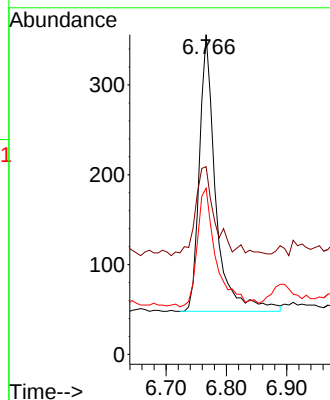
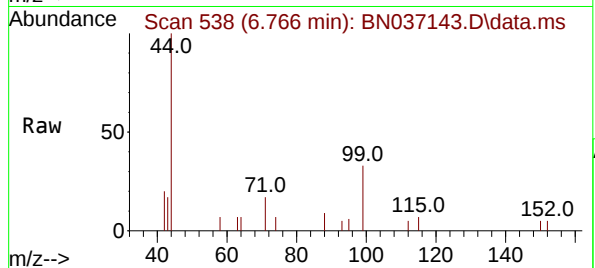




#5  
Phenol-d6  
Concen: 0.096 ng  
RT: 6.766 min Scan# 51  
Delta R.T. -0.007 min  
Lab File: BN037143.D  
Acq: 03 Jun 2025 11:39

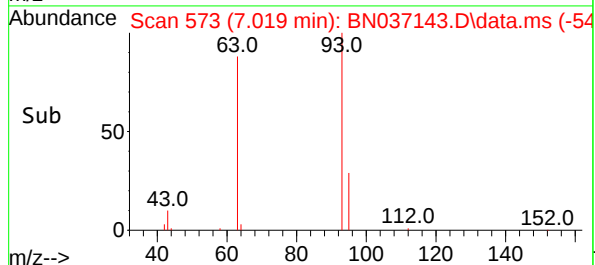
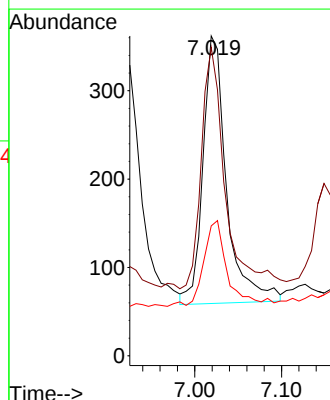
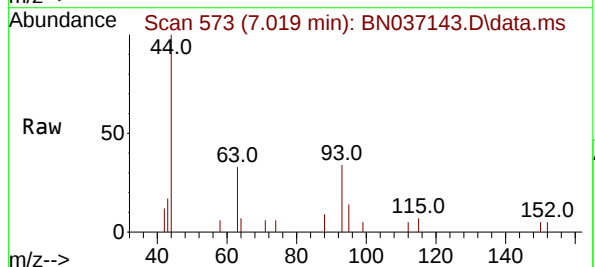
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ClientSampleId :  
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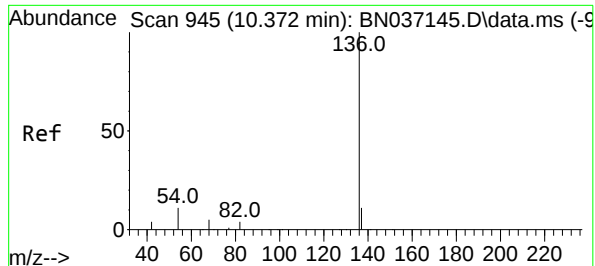
Tgt Ion: 99 Resp: 582  
Ion Ratio Lower Upper  
99 100  
42 37.3 31.3 46.9  
71 49.7 38.2 57.2



#6  
bis(2-Chloroethyl)ether  
Concen: 0.099 ng  
RT: 7.019 min Scan# 573  
Delta R.T. -0.007 min  
Lab File: BN037143.D  
Acq: 03 Jun 2025 11:39

Tgt Ion: 93 Resp: 573  
Ion Ratio Lower Upper  
93 100  
63 91.4 68.6 103.0  
95 31.6 24.3 36.5

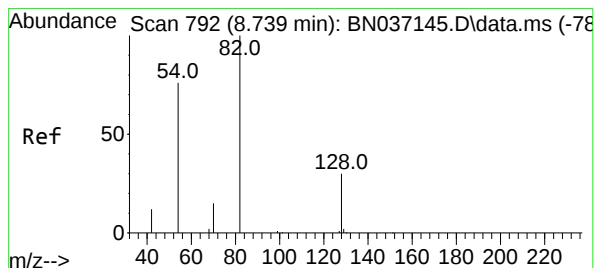
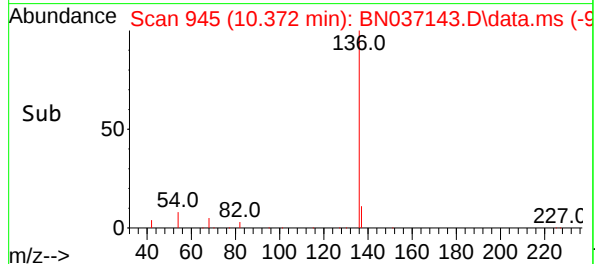
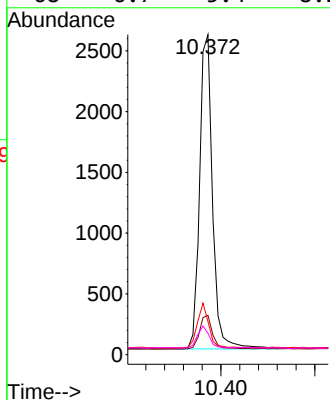
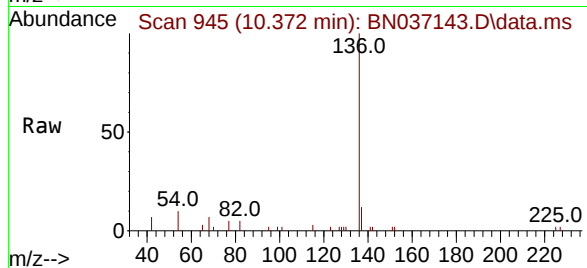




#7  
Naphthalene-d8  
Concen: 0.400 ng  
RT: 10.372 min Scan# 945  
Delta R.T. 0.000 min  
Lab File: BN037143.D  
Acq: 03 Jun 2025 11:39

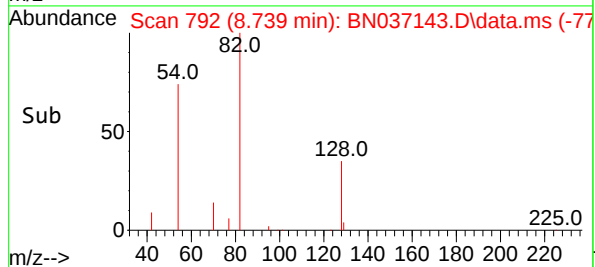
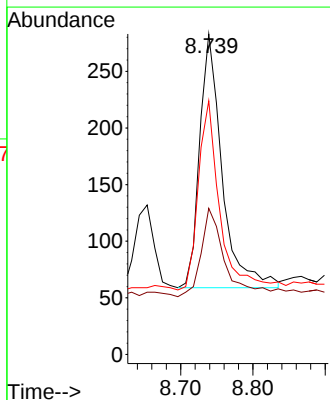
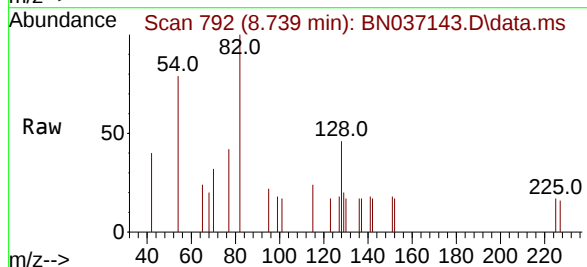
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC0.1

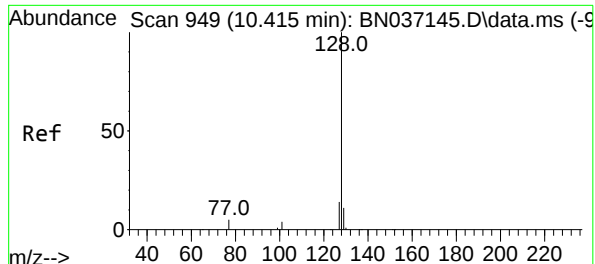
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 136   | Resp: | 4942  |
| Ion      | Ratio | Lower | Upper |
| 136      | 100   |       |       |
| 137      | 12.3  | 9.7   | 14.5  |
| 54       | 10.3  | 9.7   | 14.5  |
| 68       | 6.7   | 5.4   | 8.2   |



#8  
Nitrobenzene-d5  
Concen: 0.093 ng  
RT: 8.739 min Scan# 792  
Delta R.T. 0.000 min  
Lab File: BN037143.D  
Acq: 03 Jun 2025 11:39

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 82    | Resp: | 486   |
| Ion      | Ratio | Lower | Upper |
| 82       | 100   |       |       |
| 128      | 45.6  | 26.9  | 40.3# |
| 54       | 79.2  | 61.4  | 92.2  |





#9

Naphthalene

Concen: 0.103 ng

RT: 10.415 min Scan# 949

Delta R.T. 0.000 min

Lab File: BN037143.D

Acq: 03 Jun 2025 11:39

Instrument :

BNA\_N

ClientSampleId :

SSTDICC0.1

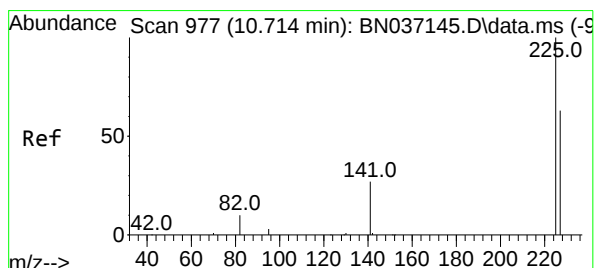
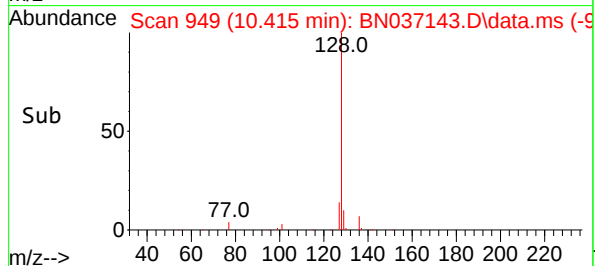
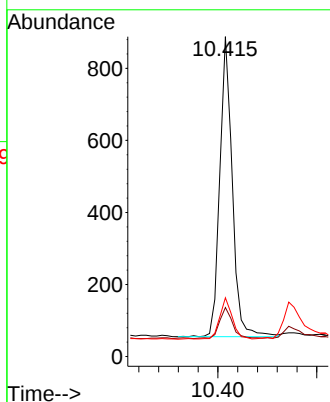
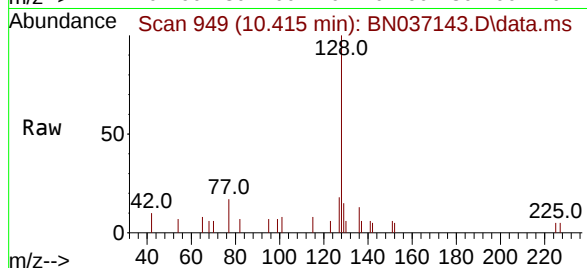
Tgt Ion:128 Resp: 1462

Ion Ratio Lower Upper

128 100

129 15.3 9.8 14.8#

127 18.4 12.3 18.5



#10

Hexachlorobutadiene

Concen: 0.100 ng

RT: 10.703 min Scan# 976

Delta R.T. -0.011 min

Lab File: BN037143.D

Acq: 03 Jun 2025 11:39

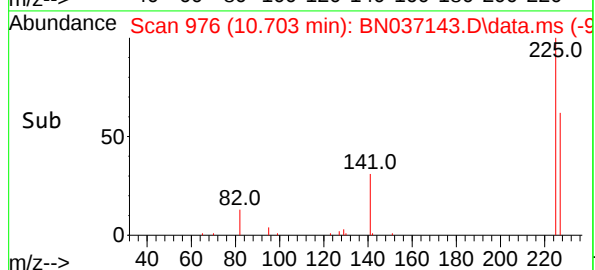
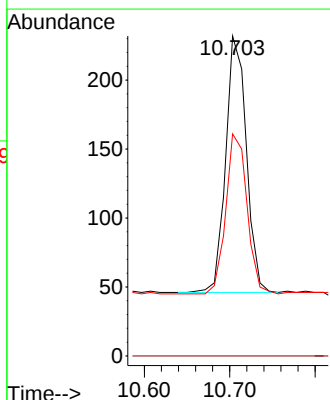
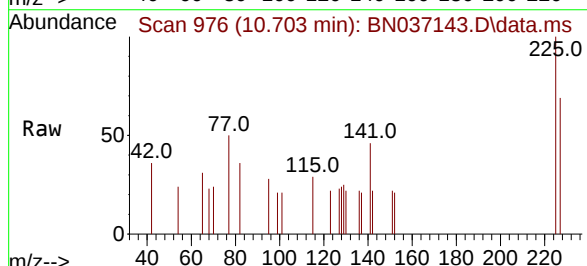
Tgt Ion:225 Resp: 312

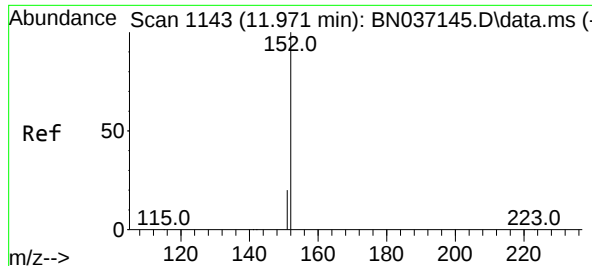
Ion Ratio Lower Upper

225 100

223 0.0 0.0 0.0

227 64.1 50.3 75.5

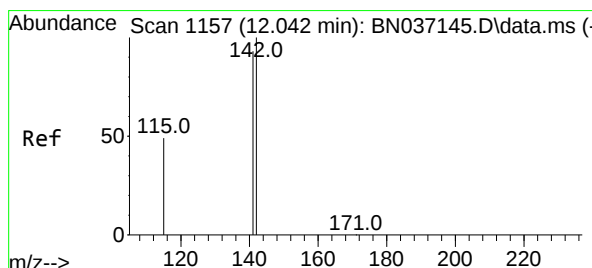
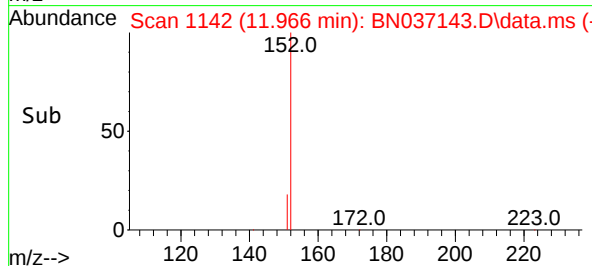
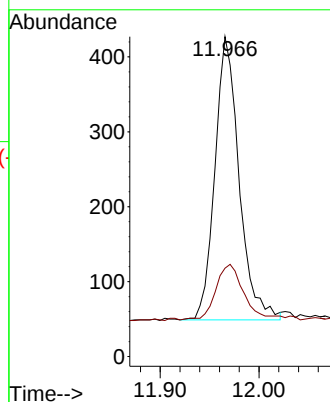
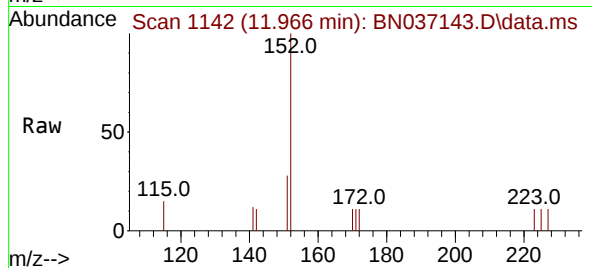




#11  
2-Methylnaphthalene-d10  
Concen: 0.093 ng  
RT: 11.966 min Scan# 1143  
Delta R.T. -0.005 min  
Lab File: BN037143.D  
Acq: 03 Jun 2025 11:39

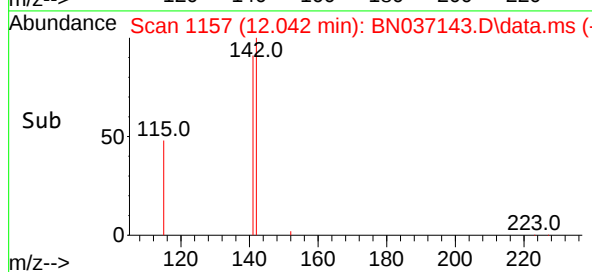
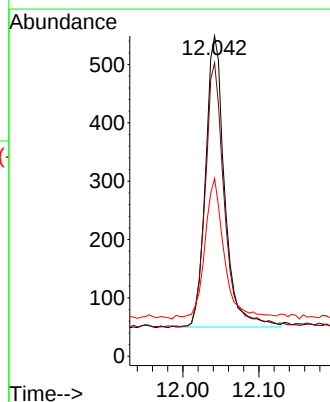
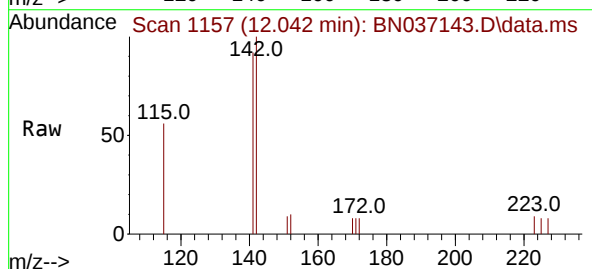
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC0.1

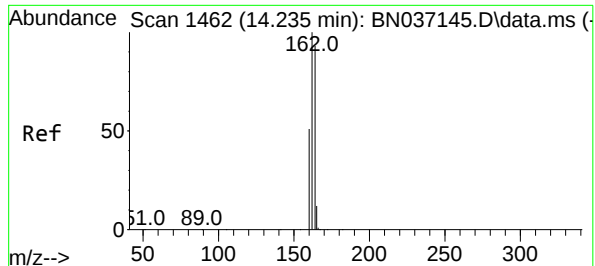
Tgt Ion:152 Resp: 643  
Ion Ratio Lower Upper  
152 100  
151 23.0 17.1 25.7



#12  
2-Methylnaphthalene  
Concen: 0.095 ng  
RT: 12.042 min Scan# 1157  
Delta R.T. 0.000 min  
Lab File: BN037143.D  
Acq: 03 Jun 2025 11:39

Tgt Ion:142 Resp: 870  
Ion Ratio Lower Upper  
142 100  
141 91.6 74.6 111.8  
115 55.6 41.0 61.4





#13

Acenaphthene-d10

Concen: 0.400 ng

RT: 14.235 min Scan# 1462

Delta R.T. 0.000 min

Lab File: BN037143.D

Acq: 03 Jun 2025 11:39

Instrument :

BNA\_N

ClientSampleId :

SSTDIC0.1

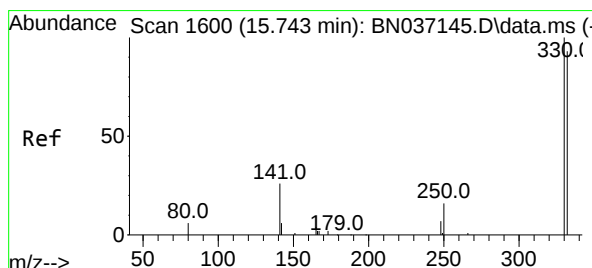
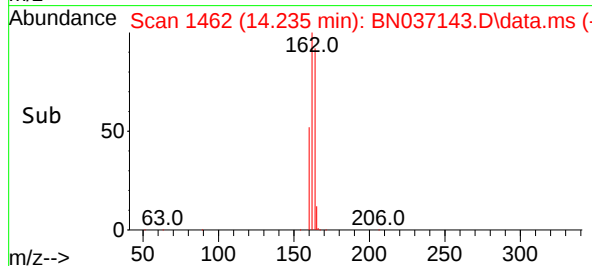
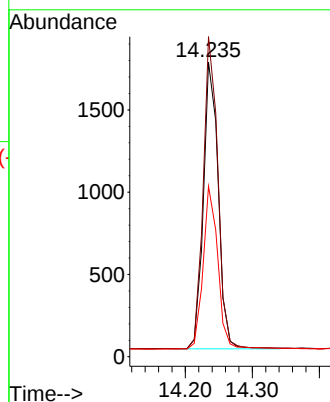
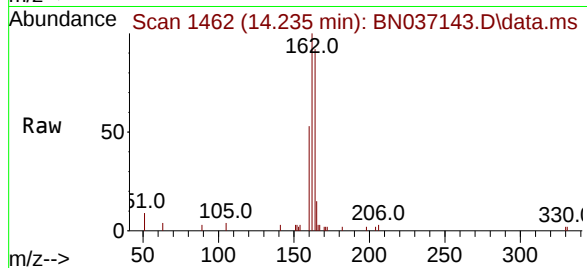
Tgt Ion:164 Resp: 2688

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

|     |     |  |  |
|-----|-----|--|--|
| 164 | 100 |  |  |
|-----|-----|--|--|

|     |       |      |       |
|-----|-------|------|-------|
| 162 | 108.7 | 85.5 | 128.3 |
|-----|-------|------|-------|

|     |      |      |      |
|-----|------|------|------|
| 160 | 57.9 | 44.6 | 67.0 |
|-----|------|------|------|



#14

2,4,6-Tribromophenol

Concen: 0.077 ng

RT: 15.743 min Scan# 1600

Delta R.T. 0.000 min

Lab File: BN037143.D

Acq: 03 Jun 2025 11:39

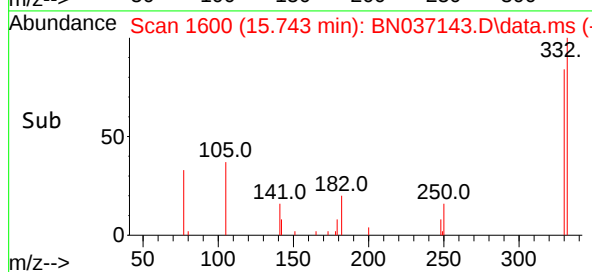
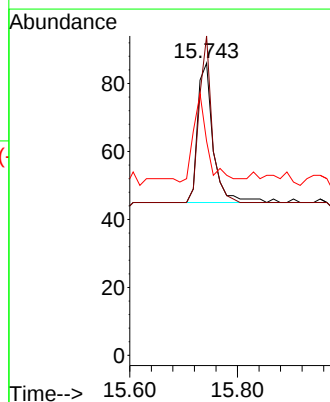
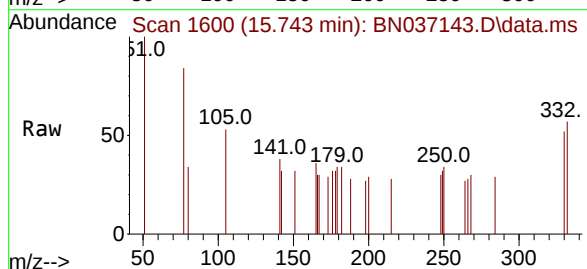
Tgt Ion:330 Resp: 83

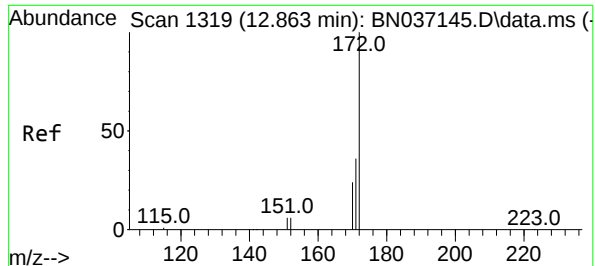
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
|-----|-------|-------|-------|

|     |     |  |  |
|-----|-----|--|--|
| 330 | 100 |  |  |
|-----|-----|--|--|

|     |      |      |       |
|-----|------|------|-------|
| 332 | 97.6 | 77.1 | 115.7 |
|-----|------|------|-------|

|     |      |      |      |
|-----|------|------|------|
| 141 | 56.6 | 46.4 | 69.6 |
|-----|------|------|------|





#15

2-Fluorobiphenyl

Concen: 0.101 ng

RT: 12.858 min Scan# 11

Delta R.T. -0.005 min

Lab File: BN037143.D

Acq: 03 Jun 2025 11:39

Instrument :

BNA\_N

ClientSampleId :

SSTDICC0.1

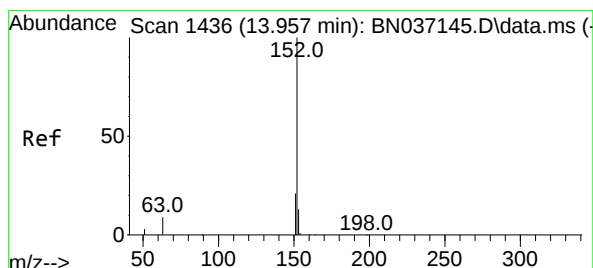
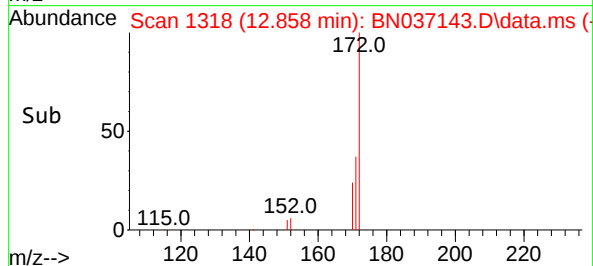
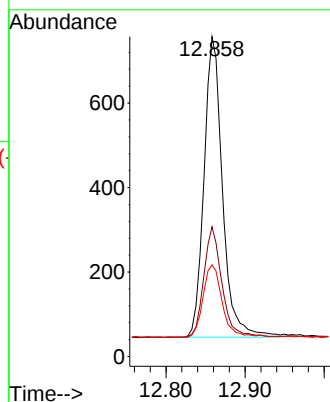
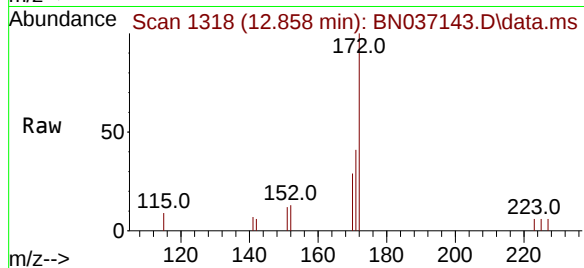
Tgt Ion:172 Resp: 1157

Ion Ratio Lower Upper

172 100

171 40.6 29.6 44.4

170 28.7 20.3 30.5



#16

Acenaphthylene

Concen: 0.099 ng

RT: 13.957 min Scan# 1436

Delta R.T. 0.000 min

Lab File: BN037143.D

Acq: 03 Jun 2025 11:39

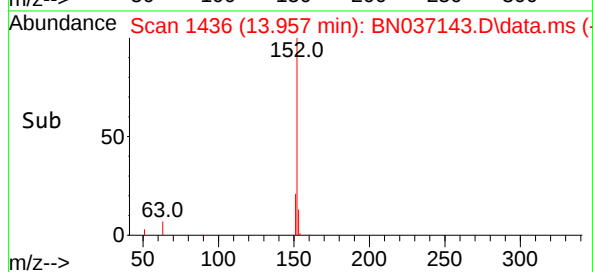
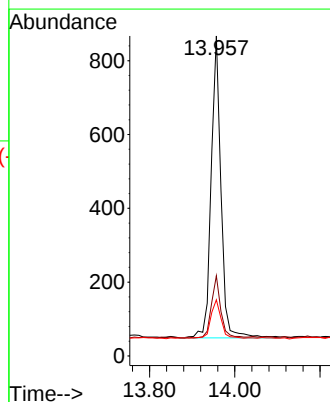
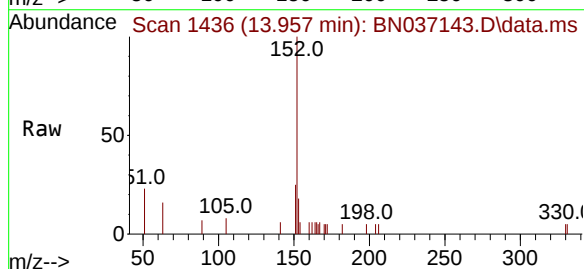
Tgt Ion:152 Resp: 1308

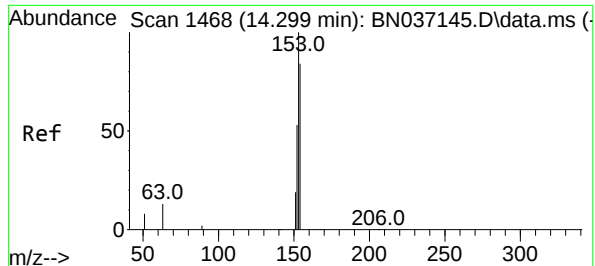
Ion Ratio Lower Upper

152 100

151 20.3 16.3 24.5

153 13.1 10.6 15.8





#17

Acenaphthene

Concen: 0.101 ng

RT: 14.299 min Scan# 1468

Delta R.T. 0.000 min

Lab File: BN037143.D

Acq: 03 Jun 2025 11:39

Instrument :

BNA\_N

ClientSampleId :

SSTDICC0.1

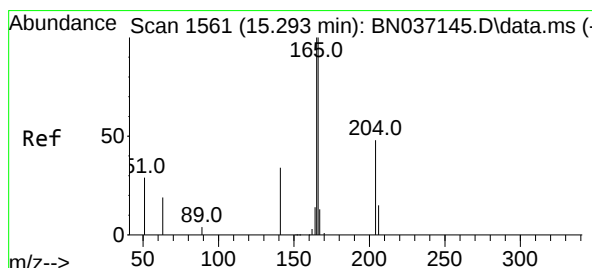
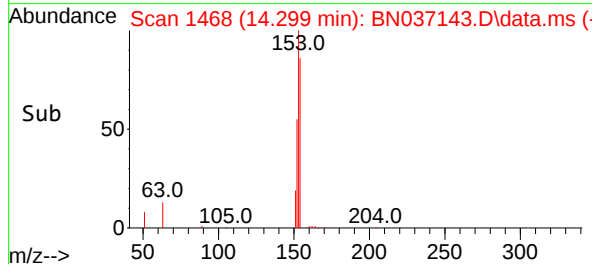
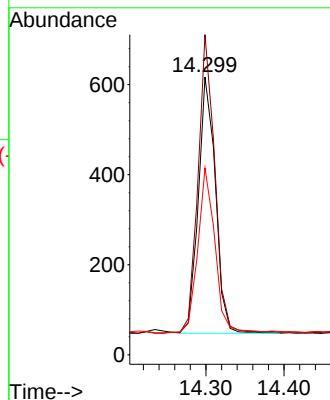
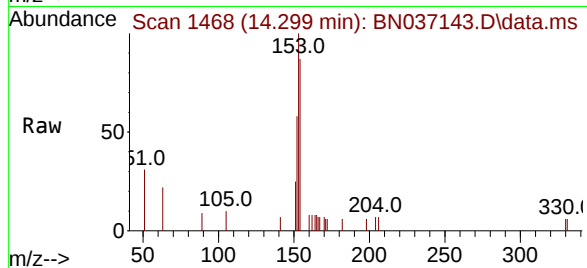
Tgt Ion:154 Resp: 867

Ion Ratio Lower Upper

154 100

153 115.6 93.8 140.8

152 64.1 50.5 75.7



#18

Fluorene

Concen: 0.102 ng

RT: 15.293 min Scan# 1561

Delta R.T. 0.000 min

Lab File: BN037143.D

Acq: 03 Jun 2025 11:39

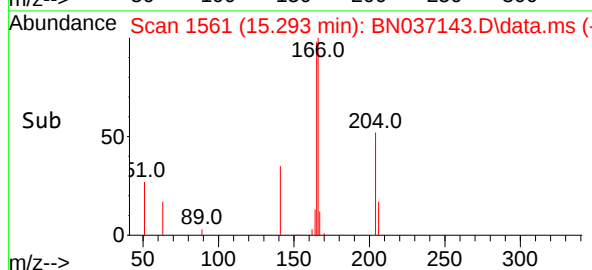
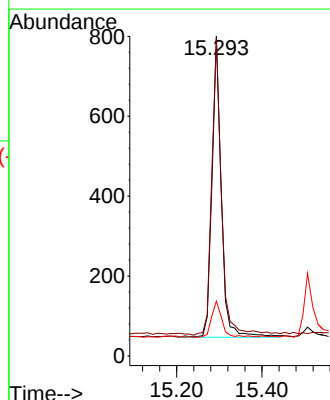
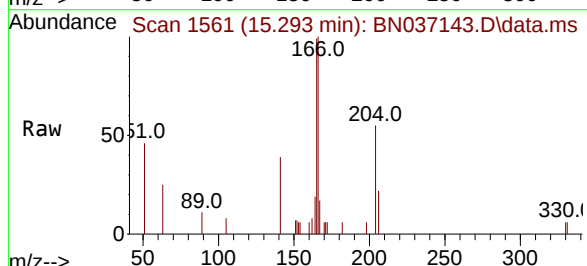
Tgt Ion:166 Resp: 1143

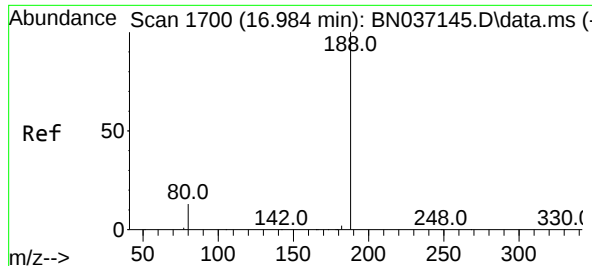
Ion Ratio Lower Upper

166 100

165 102.8 81.1 121.7

167 13.3 10.8 16.2





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 16.984 min Scan# 11

Delta R.T. 0.000 min

Lab File: BN037143.D

Acq: 03 Jun 2025 11:39

Instrument :

BNA\_N

ClientSampleId :

SSTDICC0.1

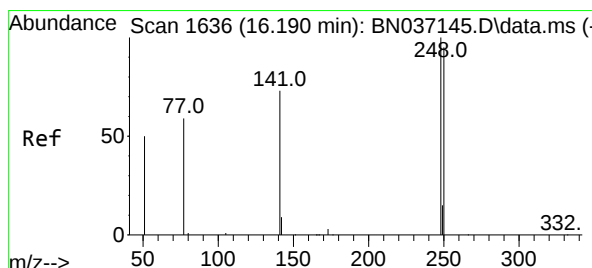
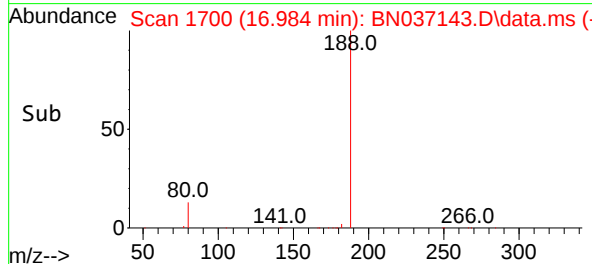
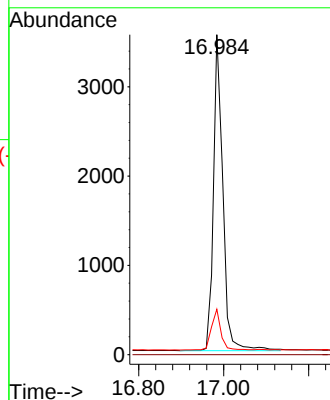
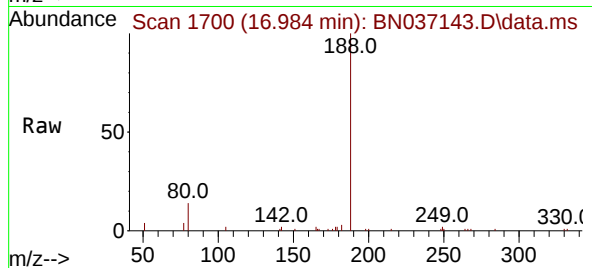
Tgt Ion:188 Resp: 5431

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 14.2 11.3 16.9



#21

4-Bromophenyl-phenylether

Concen: 0.097 ng

RT: 16.190 min Scan# 1636

Delta R.T. 0.000 min

Lab File: BN037143.D

Acq: 03 Jun 2025 11:39

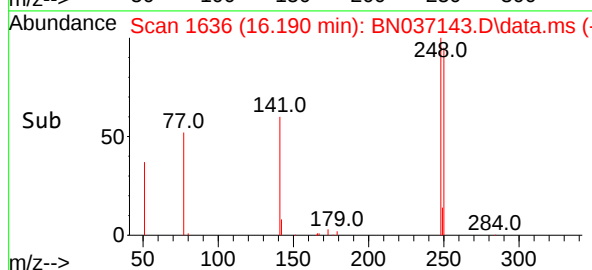
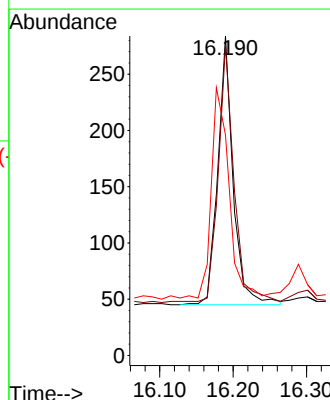
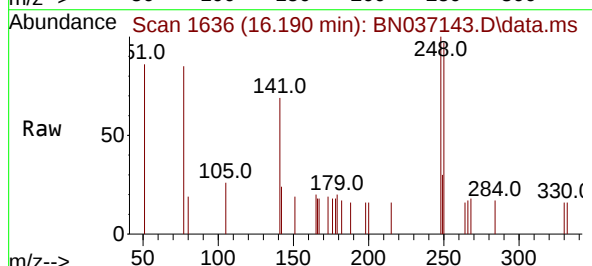
Tgt Ion:248 Resp: 347

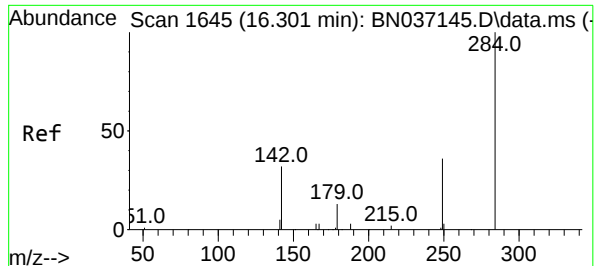
Ion Ratio Lower Upper

248 100

250 97.2 76.1 114.1

141 69.0 60.1 90.1





#22

Hexachlorobenzene

Concen: 0.102 ng

RT: 16.301 min Scan# 1645

Delta R.T. -0.000 min

Lab File: BN037143.D

Acq: 03 Jun 2025 11:39

Instrument :

BNA\_N

ClientSampleId :

SSTDICC0.1

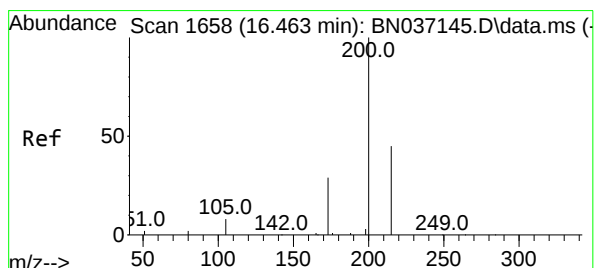
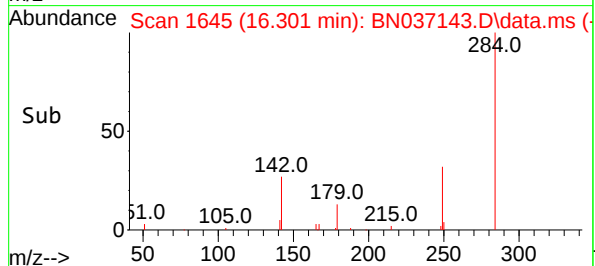
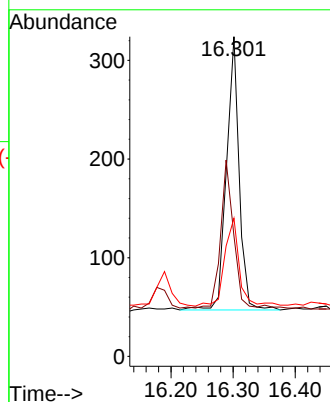
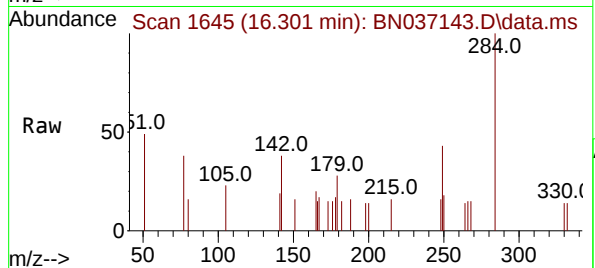
Tgt Ion:284 Resp: 392

Ion Ratio Lower Upper

284 100

142 54.1 44.0 66.0

249 37.5 29.7 44.5



#23

Atrazine

Concen: 0.090 ng

RT: 16.463 min Scan# 1658

Delta R.T. 0.000 min

Lab File: BN037143.D

Acq: 03 Jun 2025 11:39

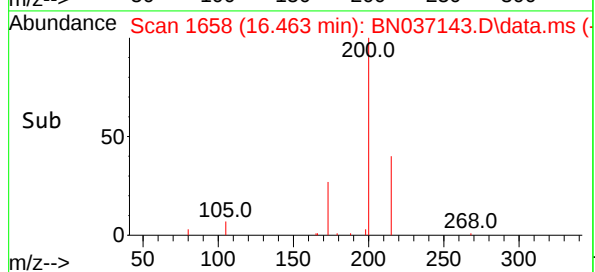
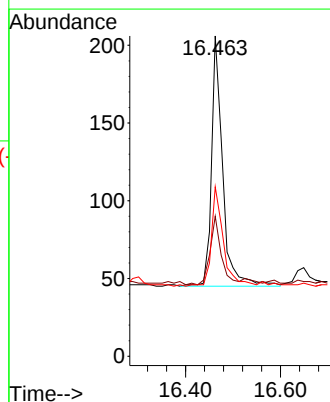
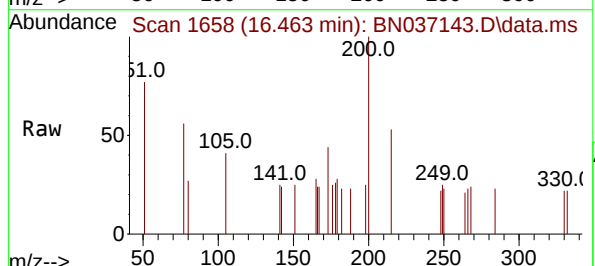
Tgt Ion:200 Resp: 264

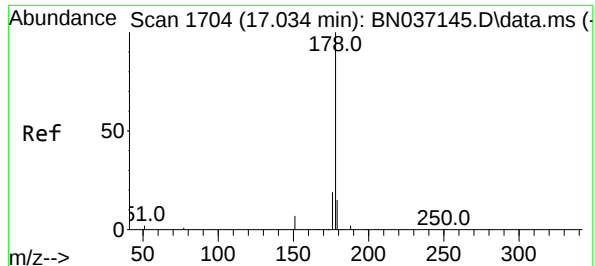
Ion Ratio Lower Upper

200 100

173 43.7 28.1 42.1#

215 52.9 39.3 58.9





#25

Phenanthrene

Concen: 0.099 ng

RT: 17.034 min Scan# 1704

Delta R.T. 0.000 min

Lab File: BN037143.D

Acq: 03 Jun 2025 11:39

Instrument :

BNA\_N

ClientSampleId :

SSTDICC0.1

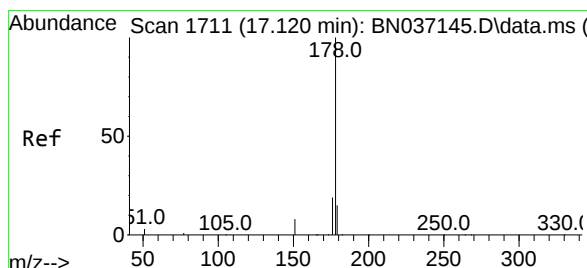
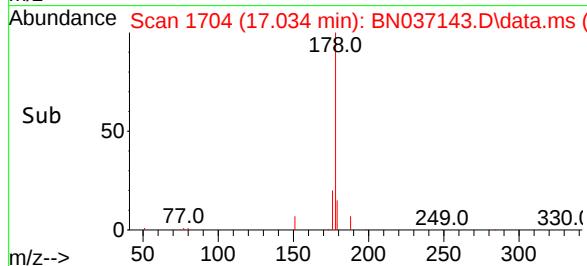
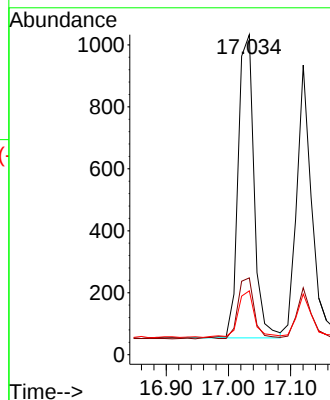
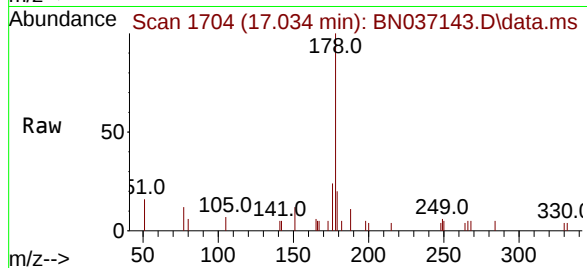
Tgt Ion:178 Resp: 1745

Ion Ratio Lower Upper

178 100

176 21.3 15.7 23.5

179 15.6 12.3 18.5



#26

Anthracene

Concen: 0.093 ng

RT: 17.120 min Scan# 1711

Delta R.T. 0.000 min

Lab File: BN037143.D

Acq: 03 Jun 2025 11:39

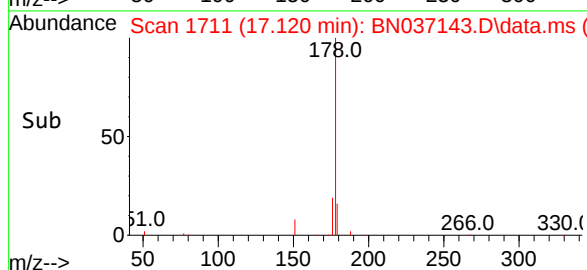
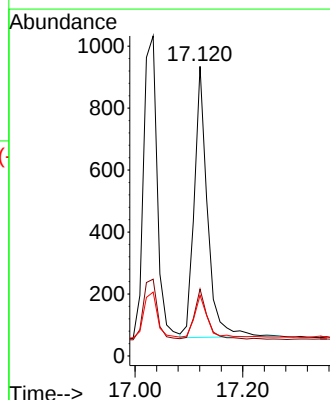
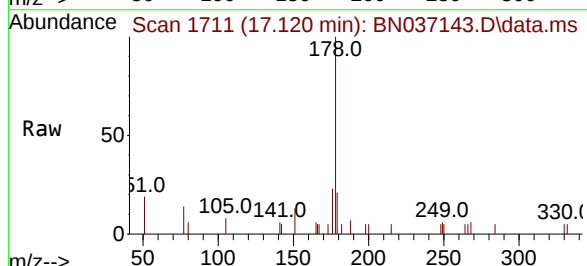
Tgt Ion:178 Resp: 1491

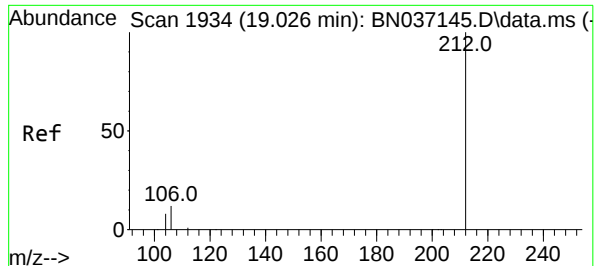
Ion Ratio Lower Upper

178 100

176 18.0 15.2 22.8

179 15.8 12.9 19.3





#27

Fluoranthene-d10

Concen: 0.095 ng

RT: 19.026 min Scan# 1934

Delta R.T. 0.000 min

Lab File: BN037143.D

Acq: 03 Jun 2025 11:39

Instrument :

BNA\_N

ClientSampleId :

SSTDICC0.1

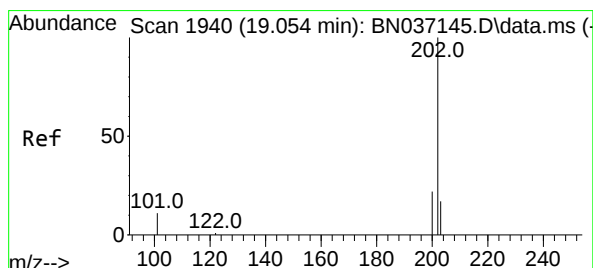
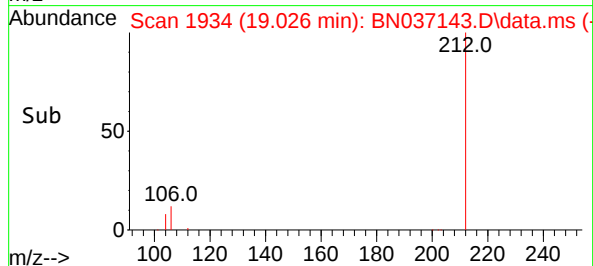
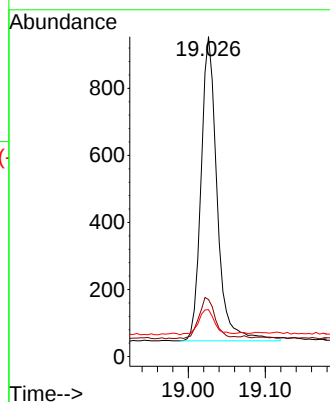
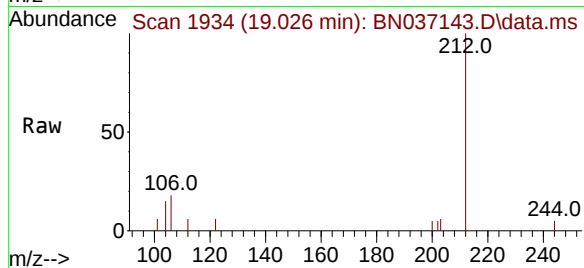
Tgt Ion:212 Resp: 1316

Ion Ratio Lower Upper

212 100

106 13.6 10.6 15.8

104 8.4 6.6 9.8



#28

Fluoranthene

Concen: 0.094 ng

RT: 19.054 min Scan# 1940

Delta R.T. 0.000 min

Lab File: BN037143.D

Acq: 03 Jun 2025 11:39

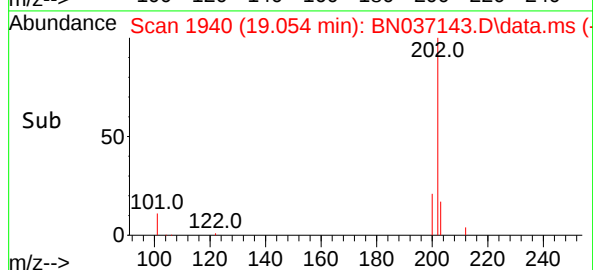
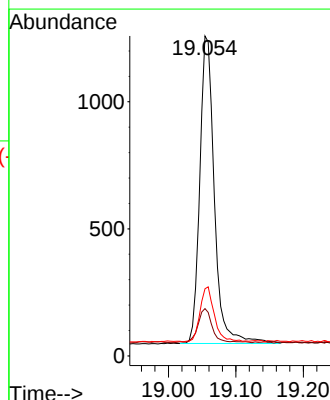
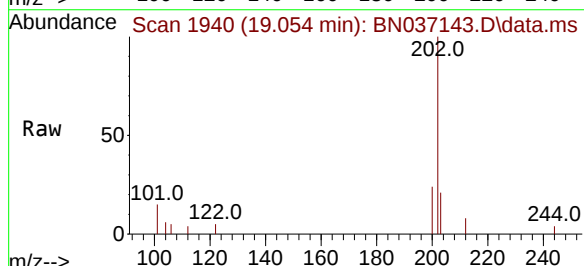
Tgt Ion:202 Resp: 1818

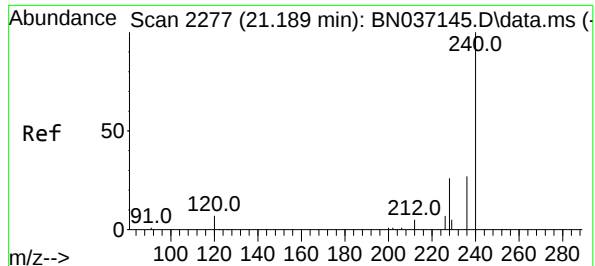
Ion Ratio Lower Upper

202 100

101 11.5 8.7 13.1

203 17.4 13.5 20.3





#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.189 min Scan# 21

Delta R.T. 0.000 min

Lab File: BN037143.D

Acq: 03 Jun 2025 11:39

Instrument :

BNA\_N

ClientSampleId :

SSTDICC0.1

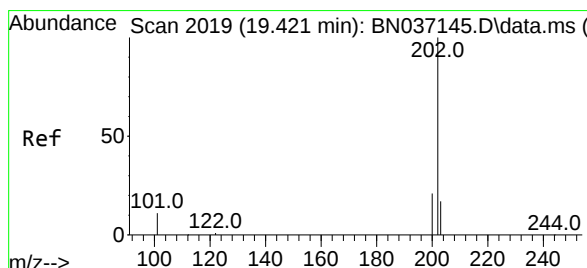
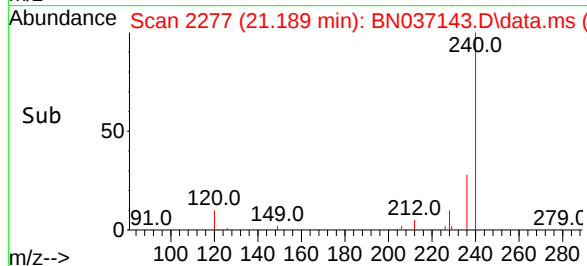
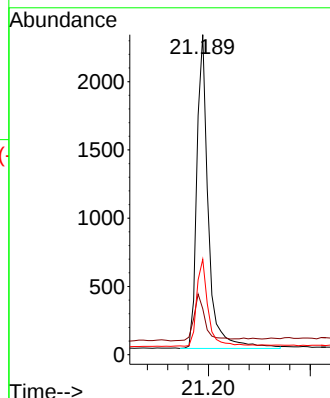
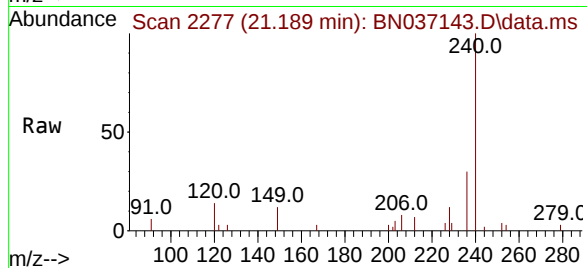
Tgt Ion:240 Resp: 3598

Ion Ratio Lower Upper

240 100

120 14.4 9.0 13.4#

236 29.8 23.0 34.4



#30

Pyrene

Concen: 0.105 ng

RT: 19.421 min Scan# 2019

Delta R.T. 0.000 min

Lab File: BN037143.D

Acq: 03 Jun 2025 11:39

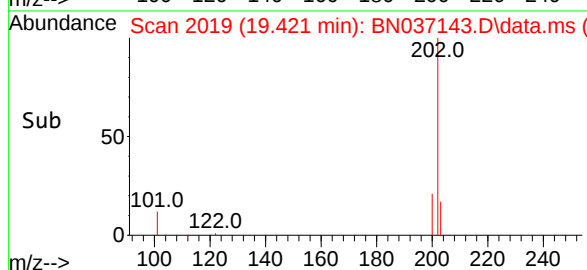
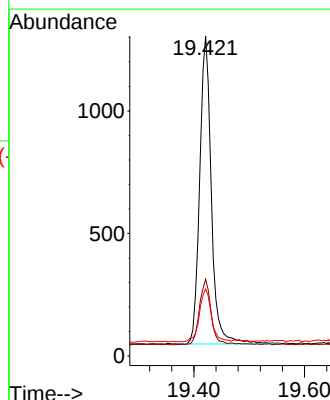
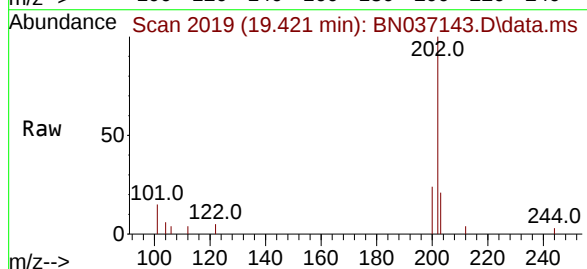
Tgt Ion:202 Resp: 1845

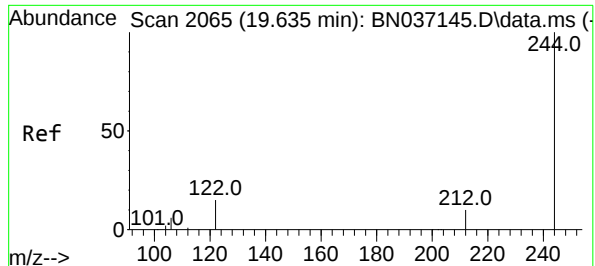
Ion Ratio Lower Upper

202 100

200 21.6 17.0 25.6

203 17.5 14.2 21.4

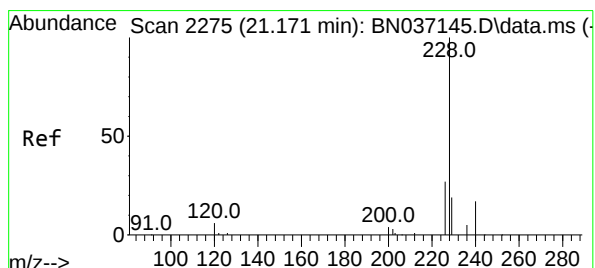
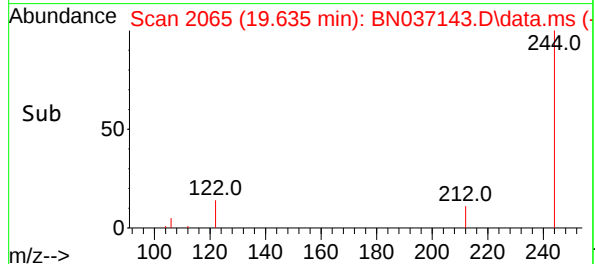
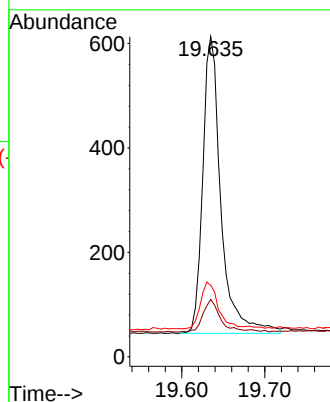
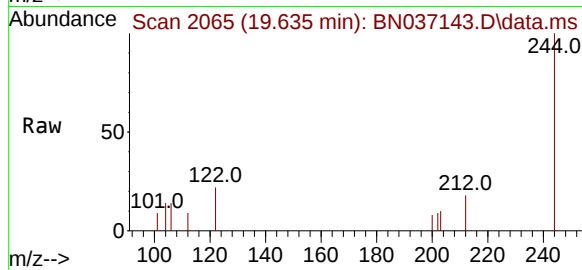




#31  
Terphenyl-d14  
Concen: 0.102 ng  
RT: 19.635 min Scan# 2065  
Delta R.T. 0.000 min  
Lab File: BN037143.D  
Acq: 03 Jun 2025 11:39

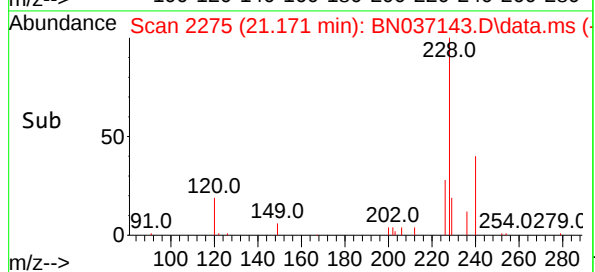
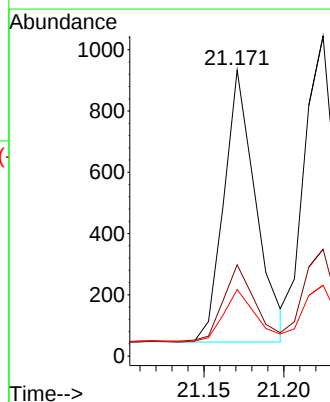
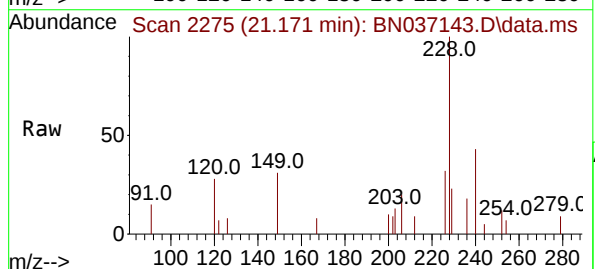
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC0.1

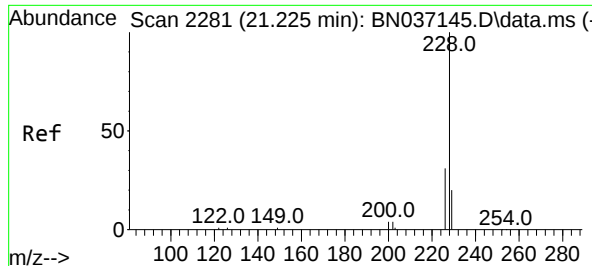
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 244     | 100   |       |       |
| 212     | 17.9  | 10.0  | 15.0# |
| 122     | 22.3  | 13.2  | 19.8# |



#32  
Benzo(a)anthracene  
Concen: 0.095 ng  
RT: 21.171 min Scan# 2275  
Delta R.T. 0.000 min  
Lab File: BN037143.D  
Acq: 03 Jun 2025 11:39

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 228     | 100   |       |       |
| 226     | 31.9  | 22.6  | 33.8  |
| 229     | 23.2  | 16.2  | 24.2  |





#33

Chrysene

Concen: 0.109 ng

RT: 21.225 min Scan# 21

Delta R.T. 0.000 min

Lab File: BN037143.D

Acq: 03 Jun 2025 11:39

Instrument :

BNA\_N

ClientSampleId :

SSTDICC0.1

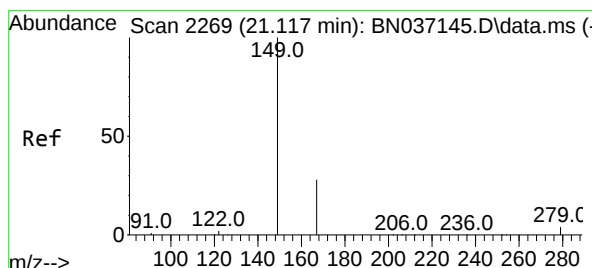
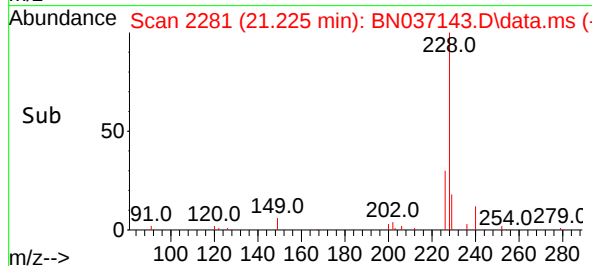
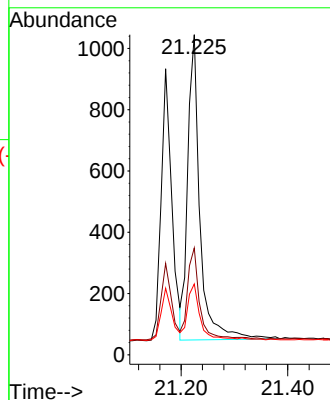
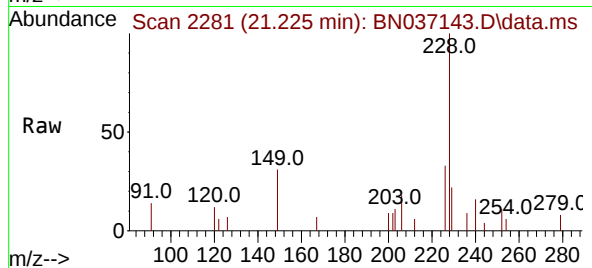
Tgt Ion:228 Resp: 1579

Ion Ratio Lower Upper

228 100

226 33.4 25.2 37.8

229 22.1 16.8 25.2



#34

Bis(2-ethylhexyl)phthalate

Concen: 0.113 ng

RT: 21.117 min Scan# 2269

Delta R.T. 0.000 min

Lab File: BN037143.D

Acq: 03 Jun 2025 11:39

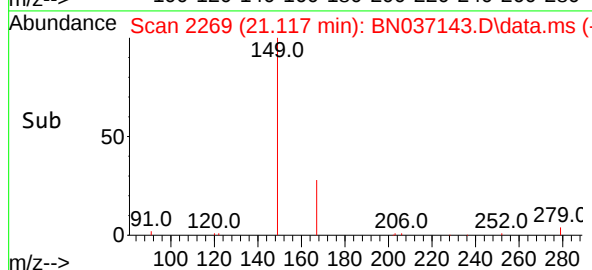
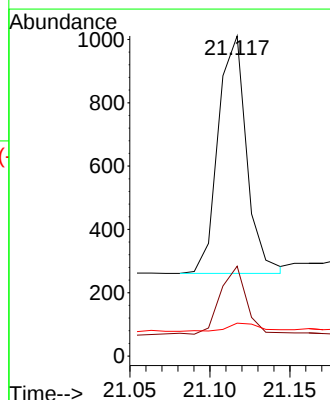
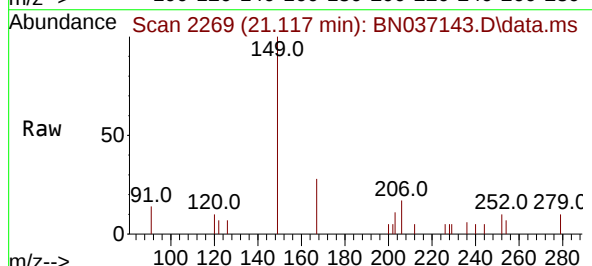
Tgt Ion:149 Resp: 928

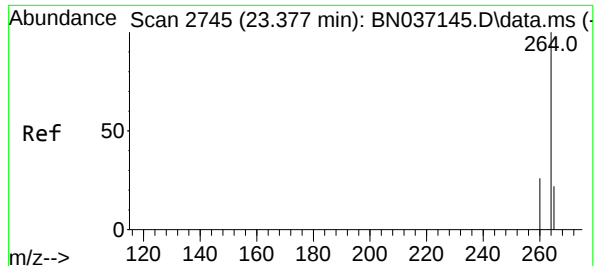
Ion Ratio Lower Upper

149 100

167 27.6 21.0 31.4

279 4.0 2.9 4.3





#35

Perylene-d12

Concen: 0.400 ng

RT: 23.380 min Scan# 21

Delta R.T. 0.003 min

Lab File: BN037143.D

Acq: 03 Jun 2025 11:39

Instrument :

BNA\_N

ClientSampleId :

SSTDICC0.1

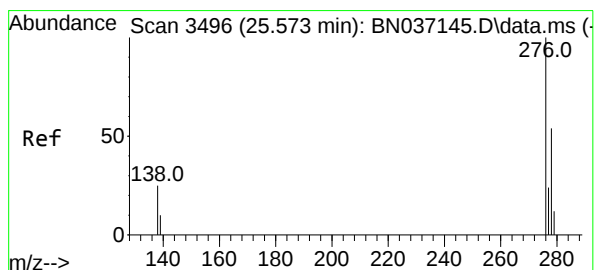
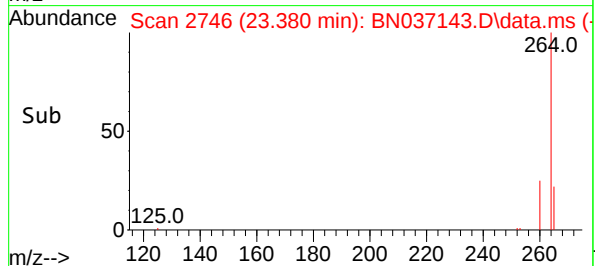
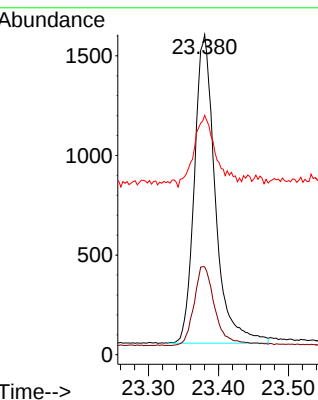
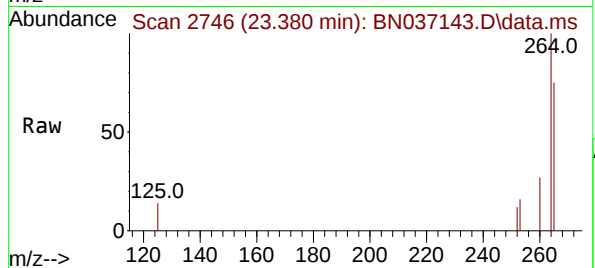
Tgt Ion:264 Resp: 3208

Ion Ratio Lower Upper

264 100

260 27.5 22.1 33.1

265 74.8 55.8 83.8



#36

Indeno(1,2,3-cd)pyrene

Concen: 0.091 ng

RT: 25.576 min Scan# 3497

Delta R.T. 0.003 min

Lab File: BN037143.D

Acq: 03 Jun 2025 11:39

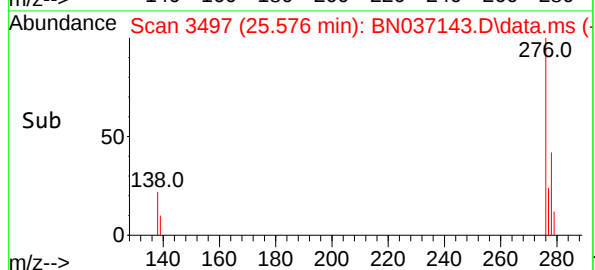
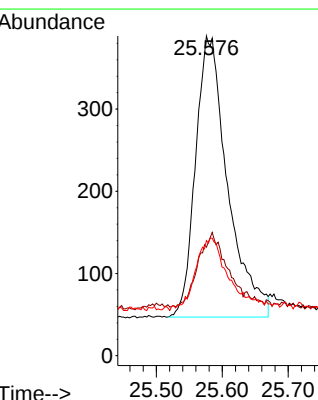
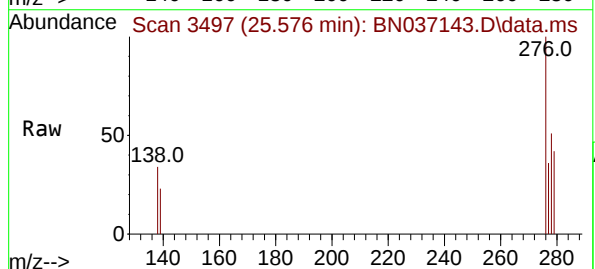
Tgt Ion:276 Resp: 1157

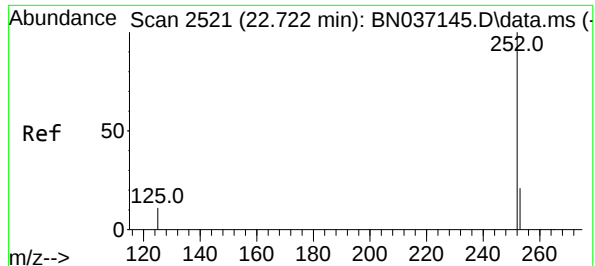
Ion Ratio Lower Upper

276 100

138 23.5 21.0 31.6

277 24.3 19.4 29.2





#37

Benzo(b)fluoranthene

Concen: 0.095 ng

RT: 22.725 min Scan# 2521

Delta R.T. 0.003 min

Lab File: BN037143.D

Acq: 03 Jun 2025 11:39

Instrument :

BNA\_N

ClientSampleId :

SSTDIC0.1

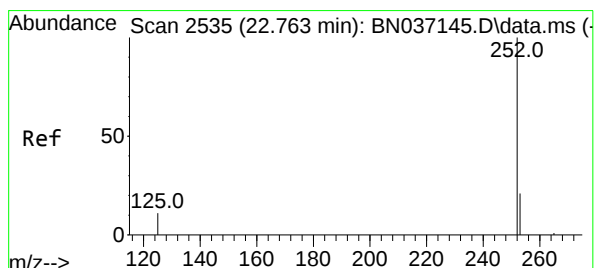
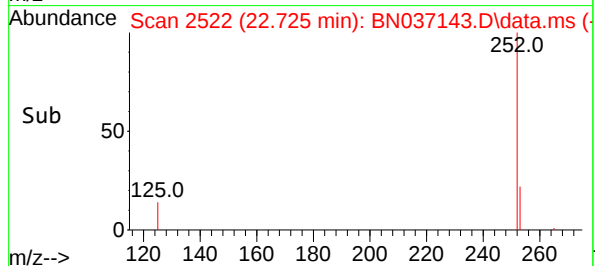
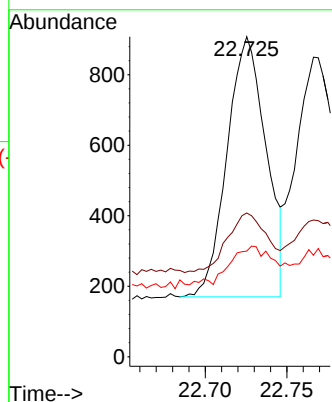
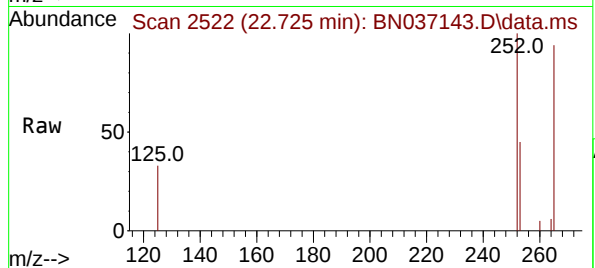
Tgt Ion:252 Resp: 1226

Ion Ratio Lower Upper

252 100

253 44.9 22.3 33.5#

125 33.0 13.2 19.8#



#38

Benzo(k)fluoranthene

Concen: 0.096 ng

RT: 22.766 min Scan# 2536

Delta R.T. 0.003 min

Lab File: BN037143.D

Acq: 03 Jun 2025 11:39

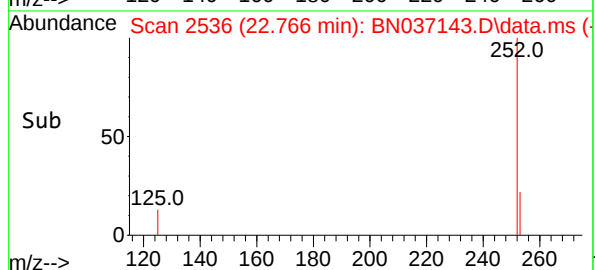
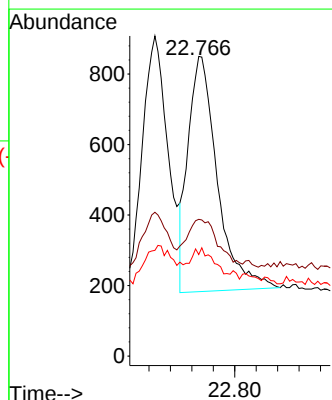
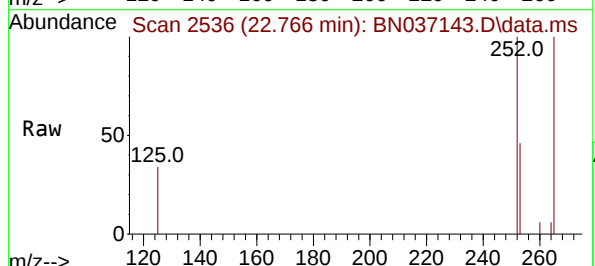
Tgt Ion:252 Resp: 1264

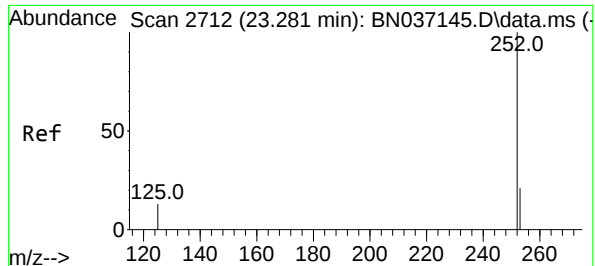
Ion Ratio Lower Upper

252 100

253 45.6 22.2 33.4#

125 33.9 13.2 19.8#





#39

Benzo(a)pyrene

Concen: 0.097 ng

RT: 23.284 min Scan# 21

Delta R.T. 0.003 min

Lab File: BN037143.D

Acq: 03 Jun 2025 11:39

Instrument :

BNA\_N

ClientSampleId :

SSTDIC0.1

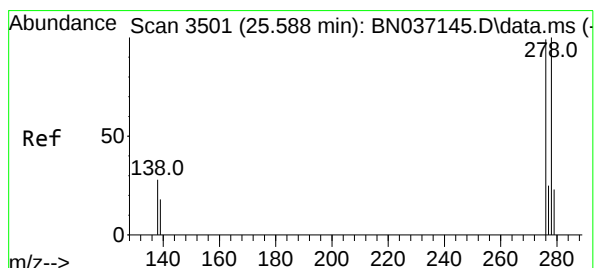
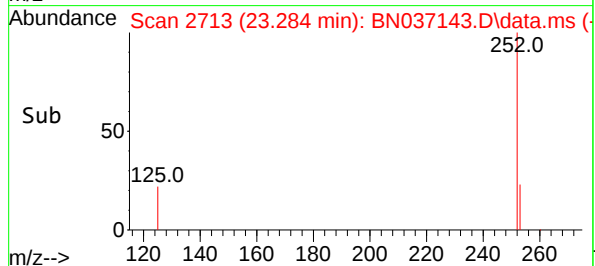
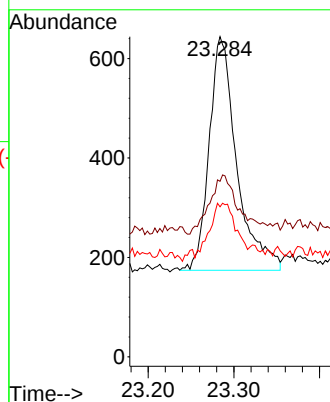
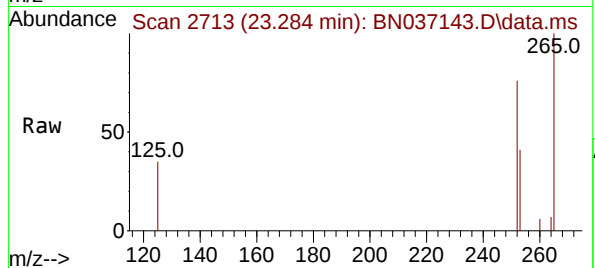
Tgt Ion:252 Resp: 1051

Ion Ratio Lower Upper

252 100

253 54.8 25.0 37.4#

125 46.9 17.0 25.6#



#40

Dibenzo(a,h)anthracene

Concen: 0.087 ng

RT: 25.594 min Scan# 3503

Delta R.T. 0.006 min

Lab File: BN037143.D

Acq: 03 Jun 2025 11:39

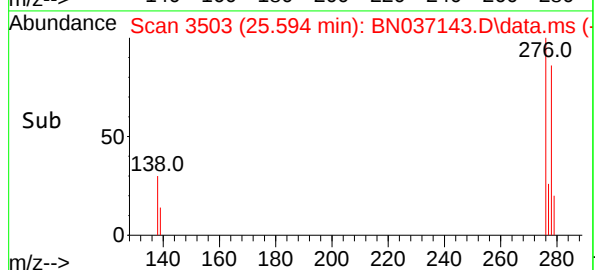
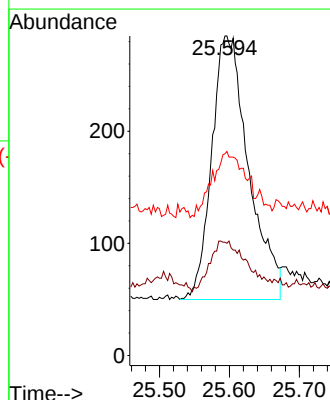
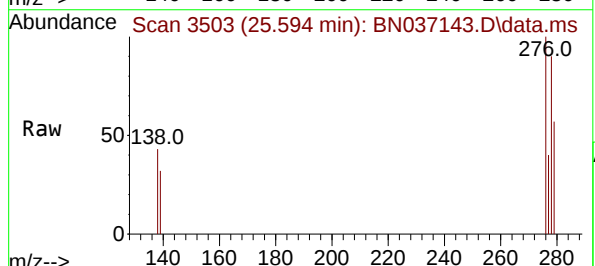
Tgt Ion:278 Resp: 861

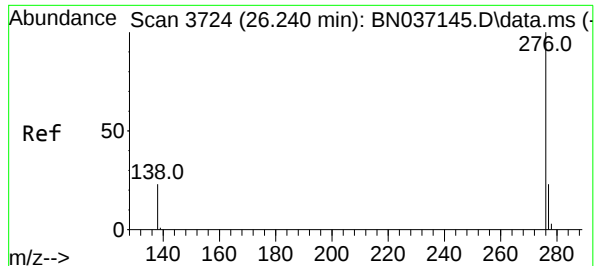
Ion Ratio Lower Upper

278 100

139 35.4 17.6 26.4#

279 63.2 26.0 39.0#





#41

Benzo(g,h,i)perylene

Concen: 0.097 ng

RT: 26.248 min Scan# 31

Delta R.T. 0.009 min

Lab File: BN037143.D

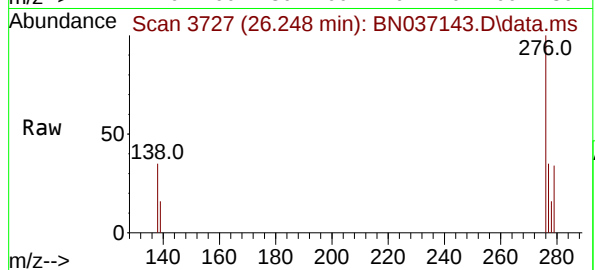
Acq: 03 Jun 2025 11:39

Instrument :

BNA\_N

ClientSampleId :

SSTDICC0.1



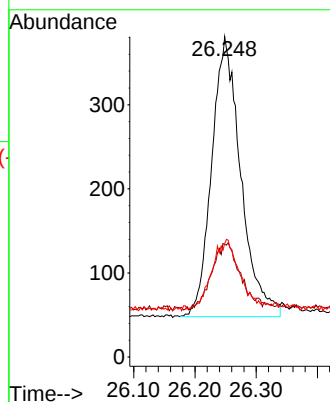
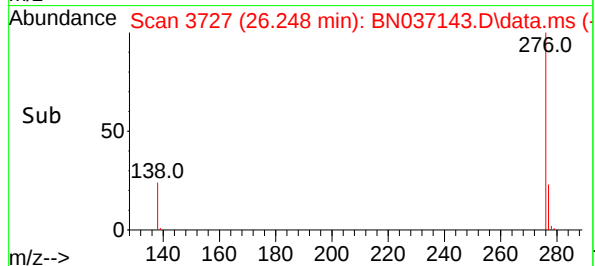
Tgt Ion:276 Resp: 1097

Ion Ratio Lower Upper

276 100

277 35.2 20.9 31.3#

138 35.4 20.8 31.2#



Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN060325\  
 Data File : BN037144.D  
 Acq On : 03 Jun 2025 12:15  
 Operator : RC/JU  
 Sample : SSTDICC0.2  
 Misc :  
 ALS Vial : 3 Sample Multiplier: 1

Instrument :  
 BNA\_N  
 ClientSampleId :  
 SSTDICC0.2

Quant Time: Jun 04 01:41:44 2025  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\8270-SIM-BN060325.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Wed Jun 04 01:40:18 2025  
 Response via : Initial Calibration

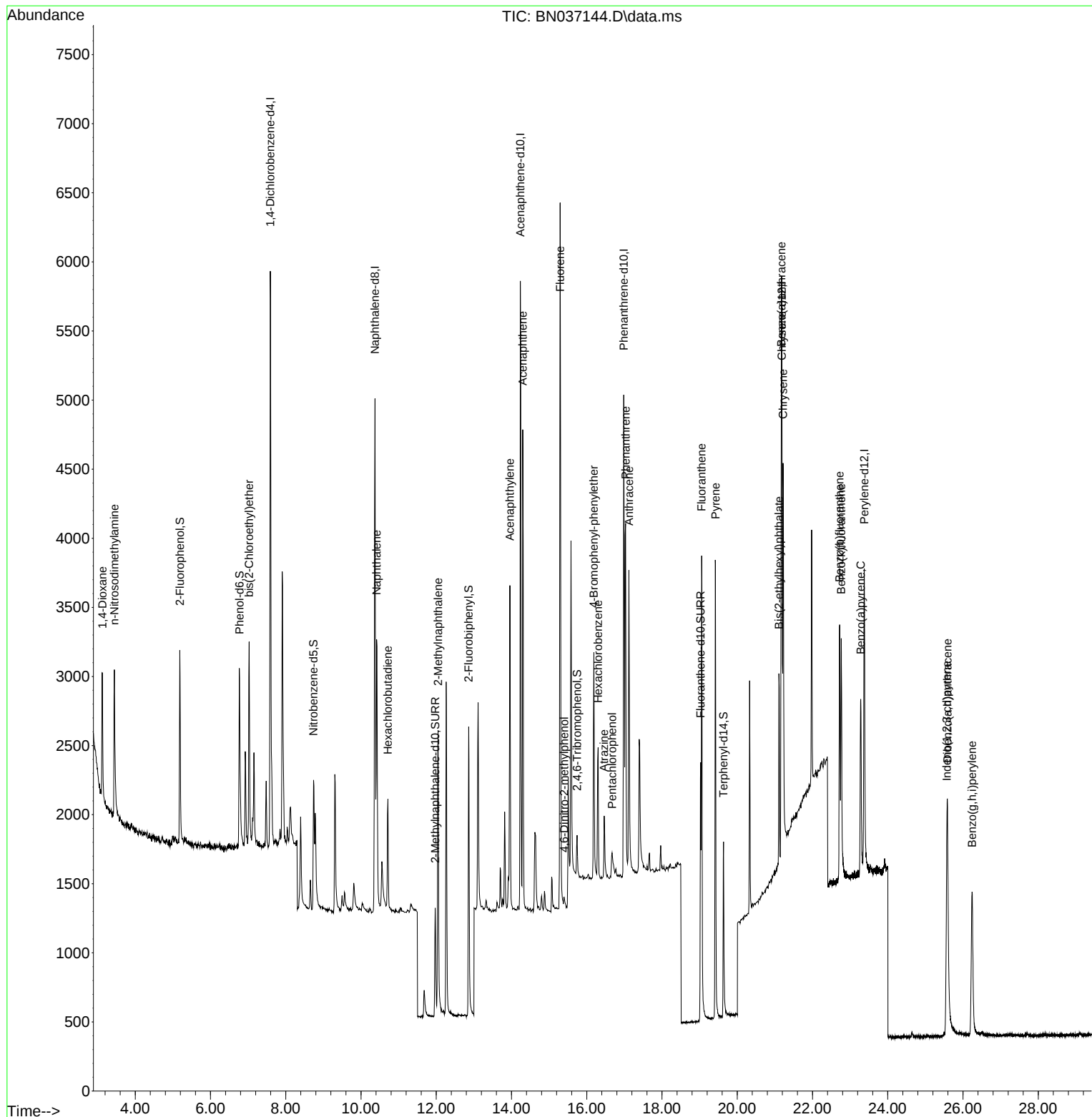
| Compound                      | R.T.   | QIon | Response | Conc  | Units | Dev(Min) |
|-------------------------------|--------|------|----------|-------|-------|----------|
| Internal Standards            |        |      |          |       |       |          |
| 1) 1,4-Dichlorobenzene-d4     | 7.589  | 152  | 2031     | 0.400 | ng    | 0.00     |
| 7) Naphthalene-d8             | 10.372 | 136  | 5053     | 0.400 | ng    | 0.00     |
| 13) Acenaphthene-d10          | 14.234 | 164  | 2624     | 0.400 | ng    | 0.00     |
| 19) Phenanthrene-d10          | 16.984 | 188  | 4950     | 0.400 | ng    | 0.00     |
| 29) Chrysene-d12              | 21.188 | 240  | 3306     | 0.400 | ng    | 0.00     |
| 35) Perylene-d12              | 23.374 | 264  | 3099     | 0.400 | ng    | 0.00     |
| System Monitoring Compounds   |        |      |          |       |       |          |
| 4) 2-Fluorophenol             | 5.184  | 112  | 1033     | 0.206 | ng    | 0.00     |
| 5) Phenol-d6                  | 6.773  | 99   | 1162     | 0.191 | ng    | 0.00     |
| 8) Nitrobenzene-d5            | 8.739  | 82   | 967      | 0.181 | ng    | 0.00     |
| 11) 2-Methylnaphthalene-d10   | 11.970 | 152  | 1302     | 0.185 | ng    | 0.00     |
| 14) 2,4,6-Tribromophenol      | 15.742 | 330  | 193      | 0.183 | ng    | 0.00     |
| 15) 2-Fluorobiphenyl          | 12.863 | 172  | 2219     | 0.198 | ng    | 0.00     |
| 27) Fluoranthene-d10          | 19.026 | 212  | 2318     | 0.184 | ng    | 0.00     |
| 31) Terphenyl-d14             | 19.635 | 244  | 1502     | 0.193 | ng    | 0.00     |
| Target Compounds              |        |      |          |       |       |          |
| 2) 1,4-Dioxane                | 3.126  | 88   | 667      | 0.246 | ng    | 86       |
| 3) n-Nitrosodimethylamine     | 3.444  | 42   | 1047     | 0.193 | ng    | 95       |
| 6) bis(2-Chloroethyl)ether    | 7.026  | 93   | 1157     | 0.199 | ng    | 97       |
| 9) Naphthalene                | 10.415 | 128  | 2843     | 0.195 | ng    | 97       |
| 10) Hexachlorobutadiene       | 10.714 | 225  | 630      | 0.198 | ng    | # 95     |
| 12) 2-Methylnaphthalene       | 12.046 | 142  | 1717     | 0.184 | ng    | 98       |
| 16) Acenaphthylene            | 13.956 | 152  | 2500     | 0.194 | ng    | 99       |
| 17) Acenaphthene              | 14.299 | 154  | 1644     | 0.197 | ng    | 99       |
| 18) Fluorene                  | 15.293 | 166  | 2069     | 0.188 | ng    | 99       |
| 20) 4,6-Dinitro-2-methylph... | 15.400 | 198  | 97       | 0.341 | ng    | # 54     |
| 21) 4-Bromophenyl-phenylether | 16.189 | 248  | 626      | 0.193 | ng    | 97       |
| 22) Hexachlorobenzene         | 16.301 | 284  | 703      | 0.201 | ng    | 98       |
| 23) Atrazine                  | 16.462 | 200  | 494      | 0.184 | ng    | 94       |
| 24) Pentachlorophenol         | 16.673 | 266  | 214      | 0.317 | ng    | 97       |
| 25) Phenanthrene              | 17.033 | 178  | 3073     | 0.192 | ng    | 99       |
| 26) Anthracene                | 17.120 | 178  | 2721     | 0.186 | ng    | 98       |
| 28) Fluoranthene              | 19.054 | 202  | 3203     | 0.181 | ng    | 99       |
| 30) Pyrene                    | 19.421 | 202  | 3263     | 0.202 | ng    | 100      |
| 32) Benzo(a)anthracene        | 21.171 | 228  | 2259     | 0.189 | ng    | 95       |
| 33) Chrysene                  | 21.215 | 228  | 2704     | 0.203 | ng    | 97       |
| 34) Bis(2-ethylhexyl)phtha... | 21.108 | 149  | 1420     | 0.188 | ng    | 98       |
| 36) Indeno(1,2,3-cd)pyrene    | 25.570 | 276  | 2487     | 0.202 | ng    | 100      |
| 37) Benzo(b)fluoranthene      | 22.719 | 252  | 2355     | 0.188 | ng    | # 87     |
| 38) Benzo(k)fluoranthene      | 22.763 | 252  | 2425     | 0.190 | ng    | # 86     |
| 39) Benzo(a)pyrene            | 23.281 | 252  | 1994     | 0.190 | ng    | # 81     |
| 40) Dibenzo(a,h)anthracene    | 25.587 | 278  | 1809     | 0.190 | ng    | # 85     |
| 41) Benzo(g,h,i)perylene      | 26.239 | 276  | 2247     | 0.206 | ng    | # 91     |

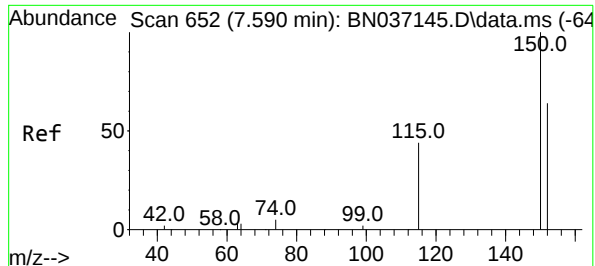
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN060325\  
Data File : BN037144.D  
Acq On : 03 Jun 2025 12:15  
Operator : RC/JU  
Sample : SSTDICC0.2  
Misc :  
ALS Vial : 3 Sample Multiplier: 1

Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC0.2

Quant Time: Jun 04 01:41:44 2025  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\8270-SIM-BN060325.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Wed Jun 04 01:40:18 2025  
Response via : Initial Calibration

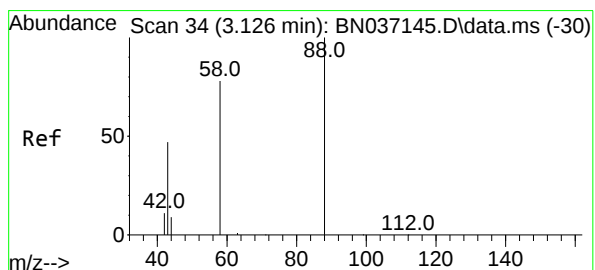
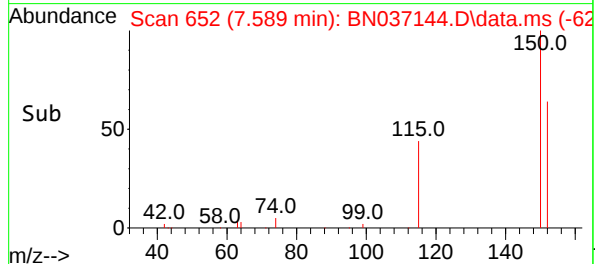
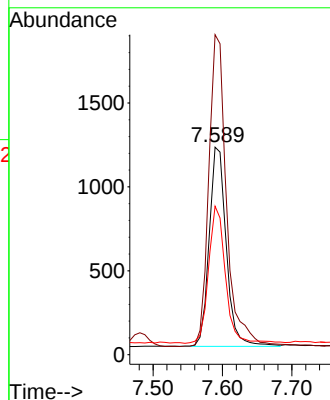
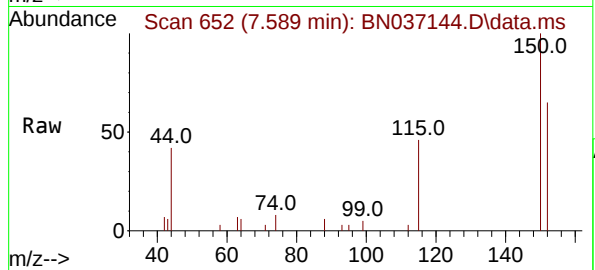




#1  
1,4-Dichlorobenzene-d4  
Concen: 0.400 ng  
RT: 7.589 min Scan# 61  
Delta R.T. -0.001 min  
Lab File: BN037144.D  
Acq: 03 Jun 2025 12:15

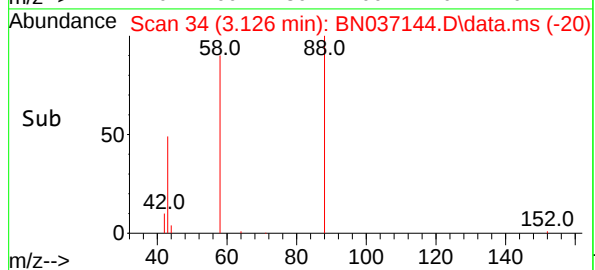
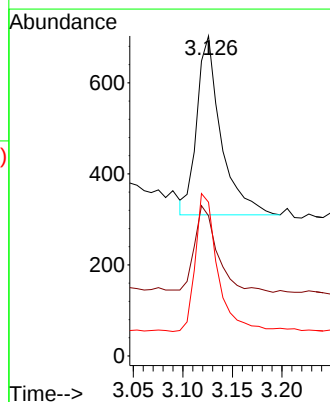
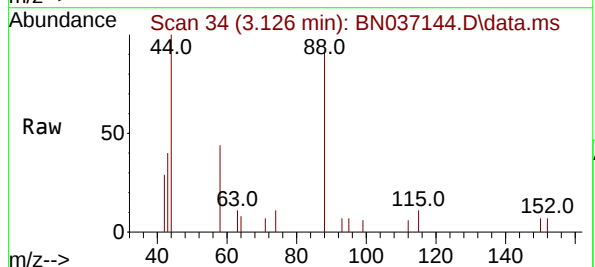
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC0.2

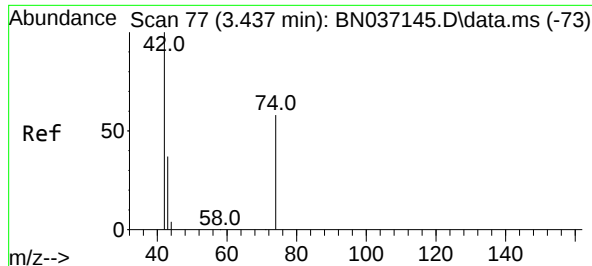
Tgt Ion:152 Resp: 2031  
Ion Ratio Lower Upper  
152 100  
150 154.2 123.2 184.8  
115 71.5 56.6 85.0



#2  
1,4-Dioxane  
Concen: 0.246 ng  
RT: 3.126 min Scan# 34  
Delta R.T. -0.000 min  
Lab File: BN037144.D  
Acq: 03 Jun 2025 12:15

Tgt Ion: 88 Resp: 667  
Ion Ratio Lower Upper  
88 100  
43 46.2 43.5 65.3  
58 70.9 67.7 101.5

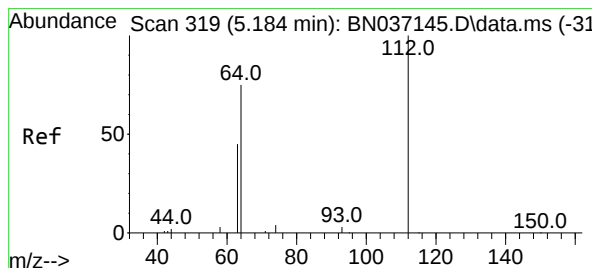
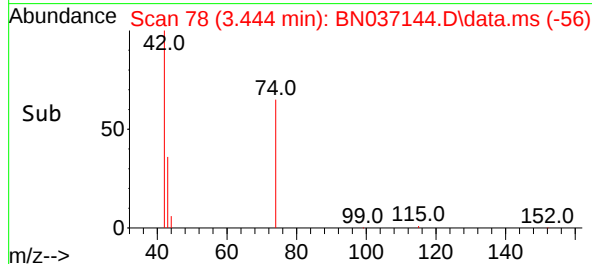
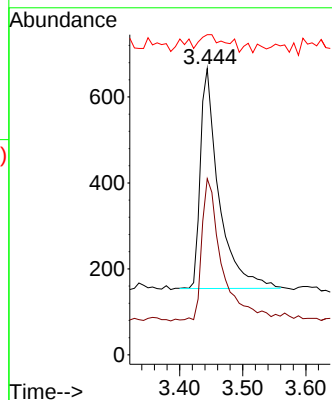
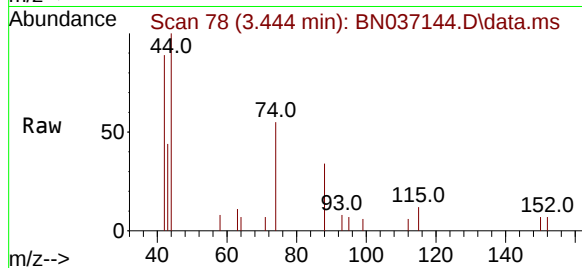




#3  
n-Nitrosodimethylamine  
Concen: 0.193 ng  
RT: 3.444 min Scan# 71  
Delta R.T. 0.007 min  
Lab File: BN037144.D  
Acq: 03 Jun 2025 12:15

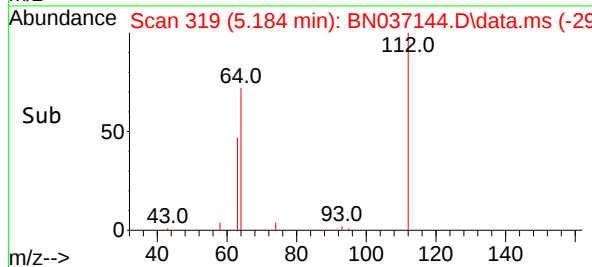
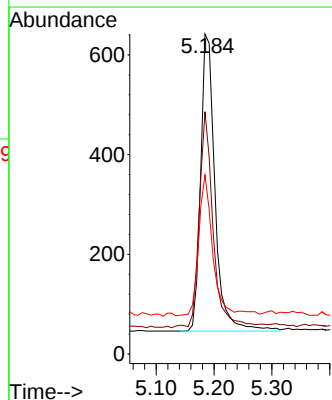
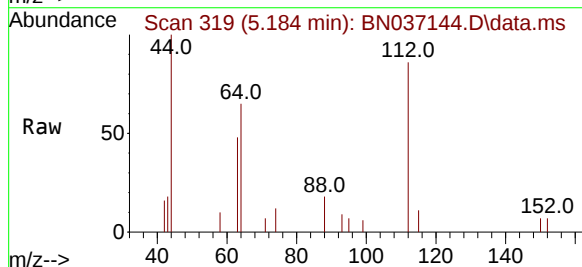
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC0.2

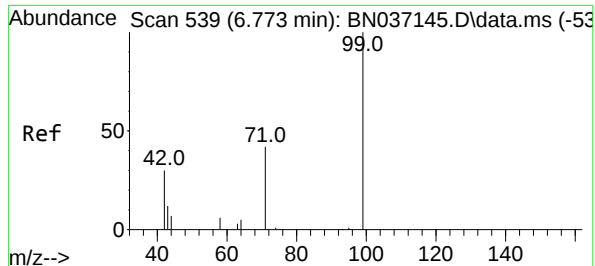
Tgt Ion: 42 Resp: 1047  
Ion Ratio Lower Upper  
42 100  
74 70.1 53.0 79.4  
44 7.7 5.9 8.9



#4  
2-Fluorophenol  
Concen: 0.206 ng  
RT: 5.184 min Scan# 319  
Delta R.T. -0.000 min  
Lab File: BN037144.D  
Acq: 03 Jun 2025 12:15

Tgt Ion: 112 Resp: 1033  
Ion Ratio Lower Upper  
112 100  
64 69.4 56.3 84.5  
63 44.3 36.2 54.4

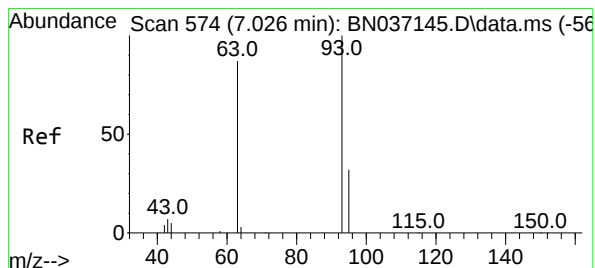
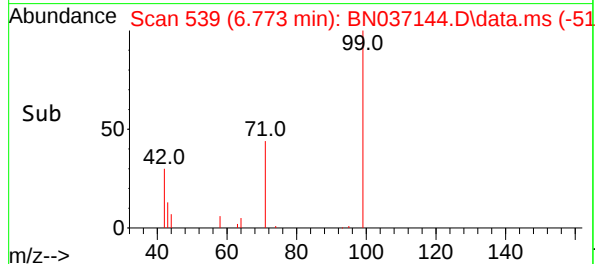
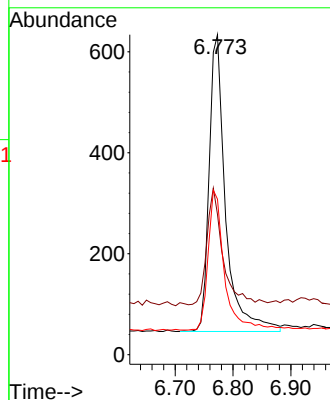
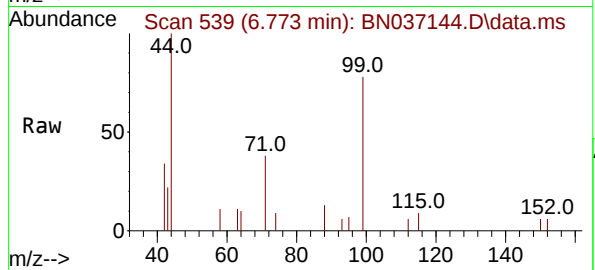




#5  
Phenol-d6  
Concen: 0.191 ng  
RT: 6.773 min Scan# 511  
Delta R.T. -0.000 min  
Lab File: BN037144.D  
Acq: 03 Jun 2025 12:15

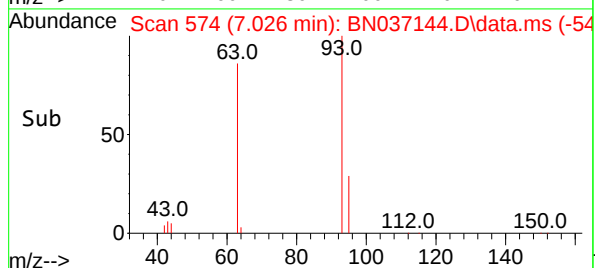
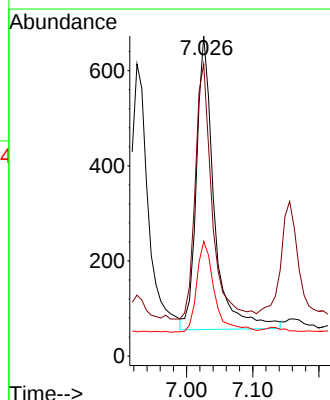
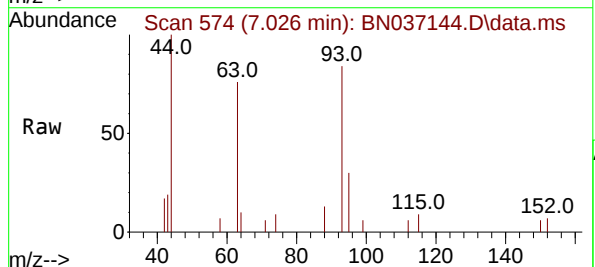
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC0.2

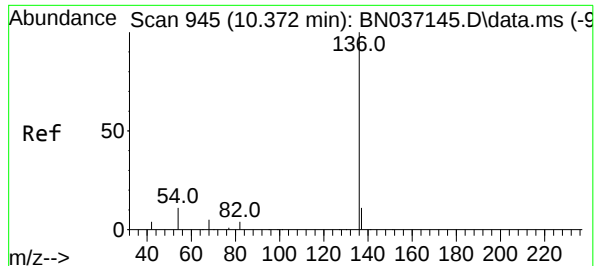
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 99    | Resp: | 1162  |
| Ion      | Ratio | Lower | Upper |
| 99       | 100   |       |       |
| 42       | 38.3  | 31.3  | 46.9  |
| 71       | 47.2  | 38.2  | 57.2  |



#6  
bis(2-Chloroethyl)ether  
Concen: 0.199 ng  
RT: 7.026 min Scan# 574  
Delta R.T. -0.000 min  
Lab File: BN037144.D  
Acq: 03 Jun 2025 12:15

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 93    | Resp: | 1157  |
| Ion      | Ratio | Lower | Upper |
| 93       | 100   |       |       |
| 63       | 82.2  | 68.6  | 103.0 |
| 95       | 30.9  | 24.3  | 36.5  |

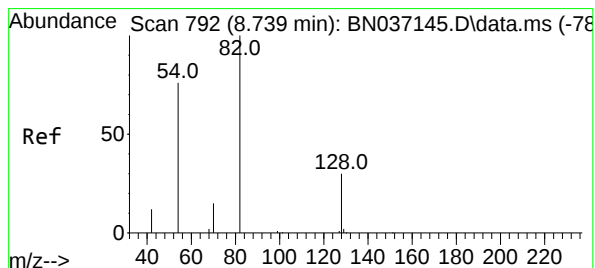
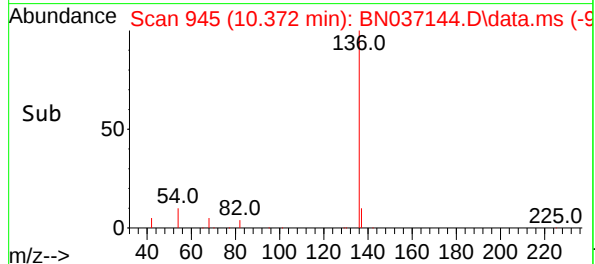
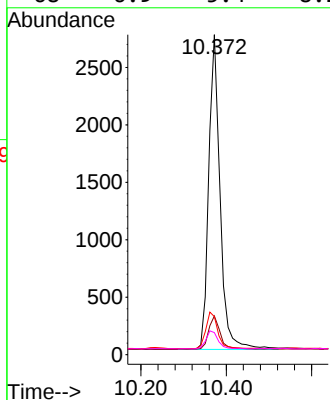
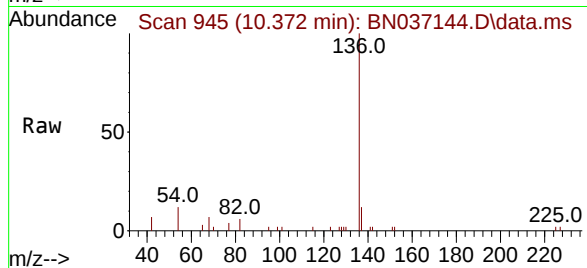




#7  
Naphthalene-d8  
Concen: 0.400 ng  
RT: 10.372 min Scan# 945  
Delta R.T. -0.000 min  
Lab File: BN037144.D  
Acq: 03 Jun 2025 12:15

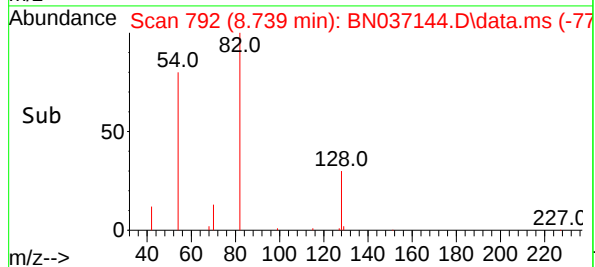
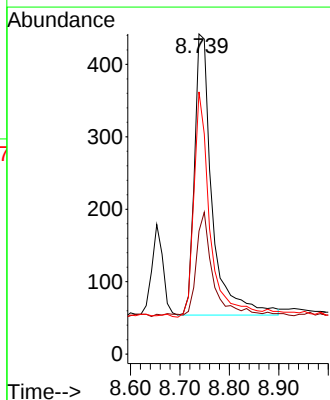
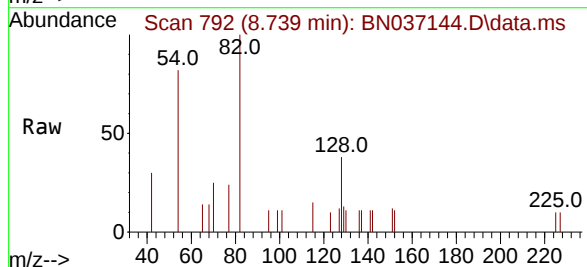
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC0.2

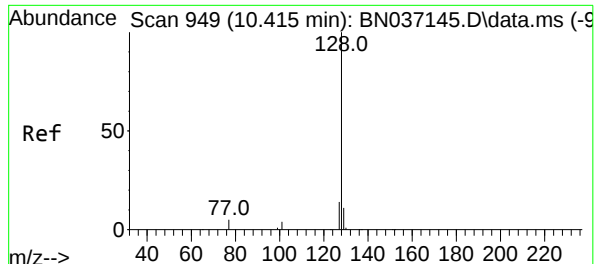
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 136   | Resp: | 5053  |
| Ion      | Ratio | Lower | Upper |
| 136      | 100   |       |       |
| 137      | 12.1  | 9.7   | 14.5  |
| 54       | 11.9  | 9.7   | 14.5  |
| 68       | 6.9   | 5.4   | 8.2   |



#8  
Nitrobenzene-d5  
Concen: 0.181 ng  
RT: 8.739 min Scan# 792  
Delta R.T. -0.000 min  
Lab File: BN037144.D  
Acq: 03 Jun 2025 12:15

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 82    | Resp: | 967   |
| Ion      | Ratio | Lower | Upper |
| 82       | 100   |       |       |
| 128      | 38.5  | 26.9  | 40.3  |
| 54       | 81.9  | 61.4  | 92.2  |





#9

Naphthalene

Concen: 0.195 ng

RT: 10.415 min Scan# 949

Delta R.T. -0.000 min

Lab File: BN037144.D

Acq: 03 Jun 2025 12:15

Instrument :

BNA\_N

ClientSampleId :

SSTDICC0.2

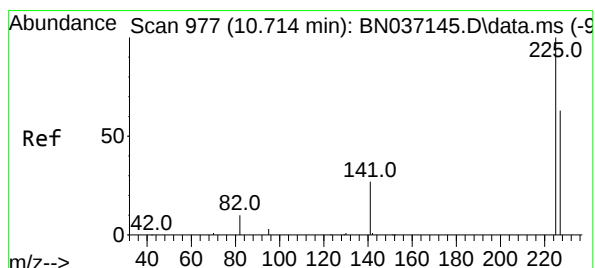
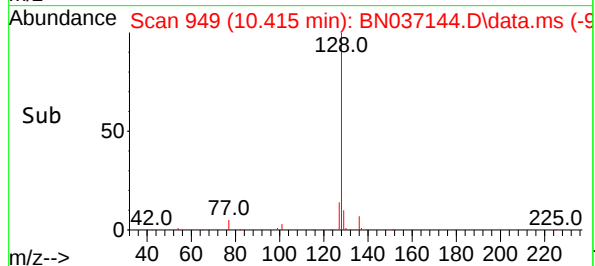
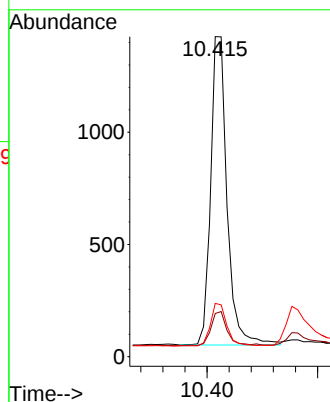
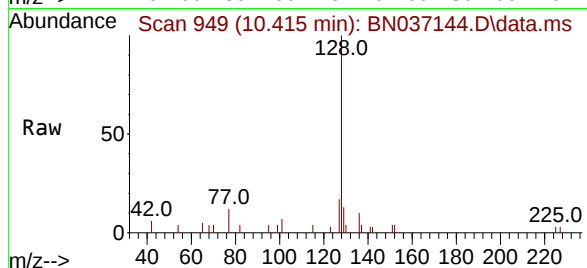
Tgt Ion:128 Resp: 2843

Ion Ratio Lower Upper

128 100

129 13.5 9.8 14.8

127 16.6 12.3 18.5



#10

Hexachlorobutadiene

Concen: 0.198 ng

RT: 10.714 min Scan# 977

Delta R.T. -0.000 min

Lab File: BN037144.D

Acq: 03 Jun 2025 12:15

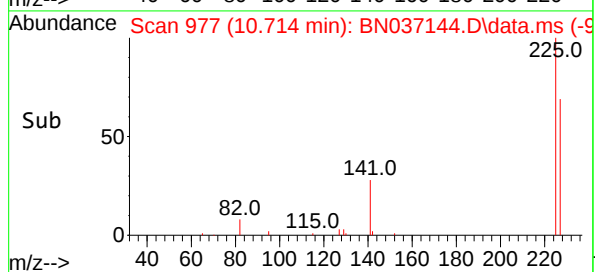
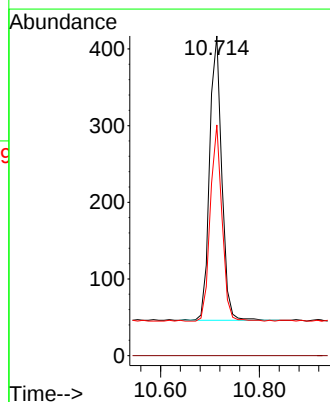
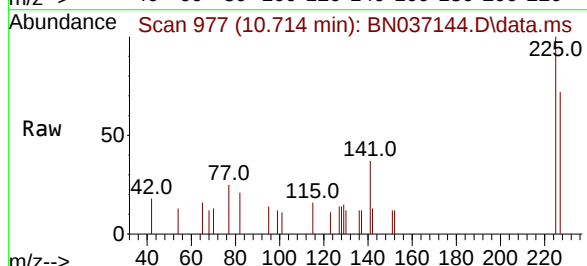
Tgt Ion:225 Resp: 630

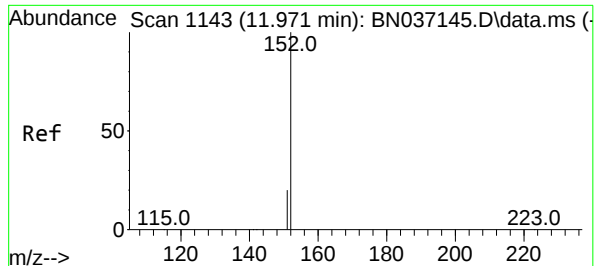
Ion Ratio Lower Upper

225 100

223 0.0 0.0 0.0

227 67.0 50.3 75.5

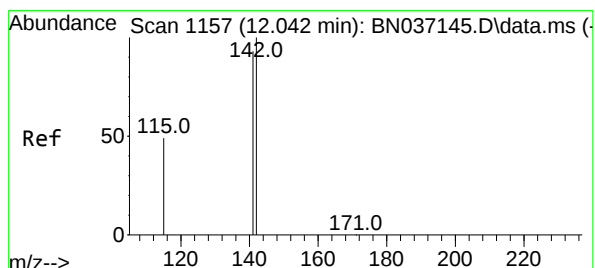
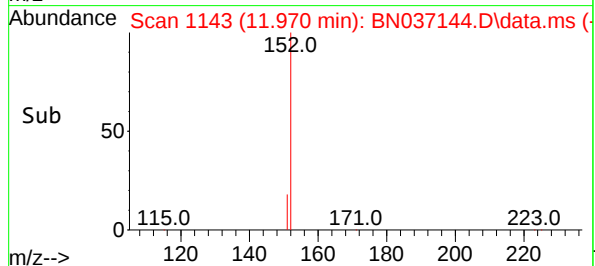
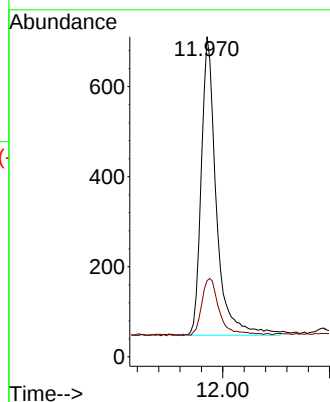
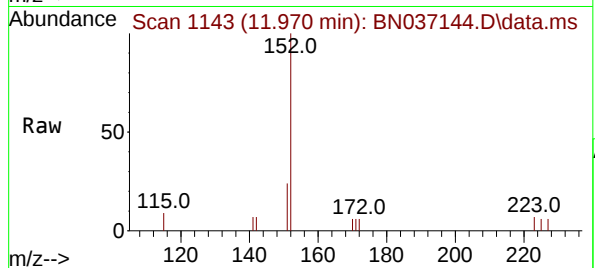




#11  
2-Methylnaphthalene-d10  
Concen: 0.185 ng  
RT: 11.970 min Scan# 1143  
Delta R.T. -0.000 min  
Lab File: BN037144.D  
Acq: 03 Jun 2025 12:15

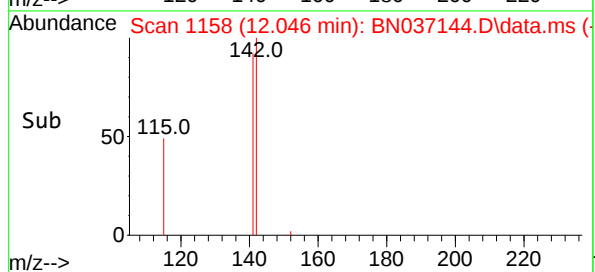
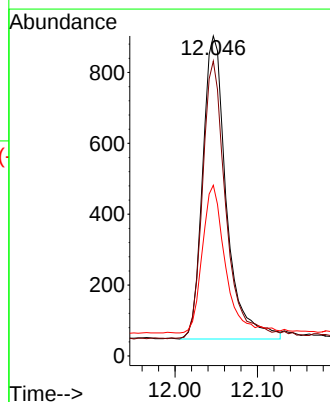
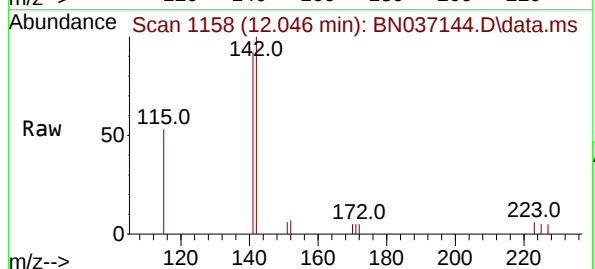
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC0.2

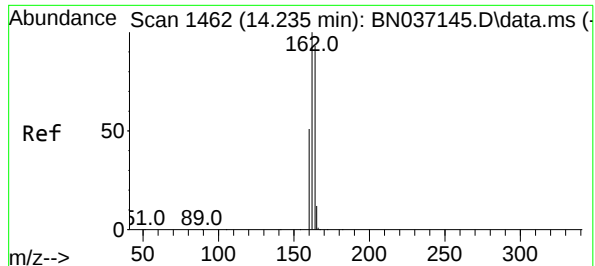
Tgt Ion:152 Resp: 1302  
Ion Ratio Lower Upper  
152 100  
151 22.8 17.1 25.7



#12  
2-Methylnaphthalene  
Concen: 0.184 ng  
RT: 12.046 min Scan# 1158  
Delta R.T. 0.005 min  
Lab File: BN037144.D  
Acq: 03 Jun 2025 12:15

Tgt Ion:142 Resp: 1717  
Ion Ratio Lower Upper  
142 100  
141 92.1 74.6 111.8  
115 53.4 41.0 61.4

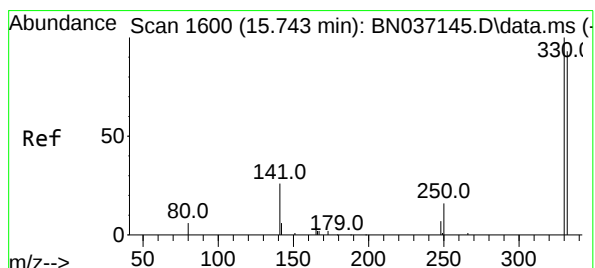
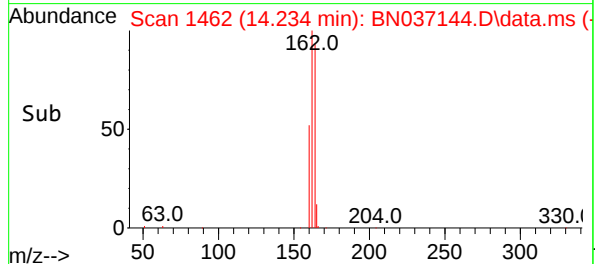
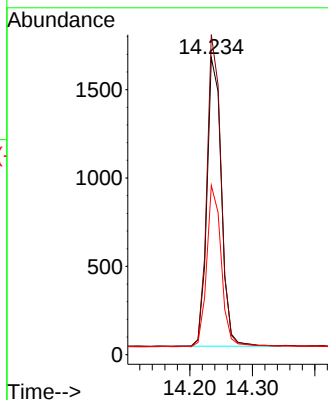
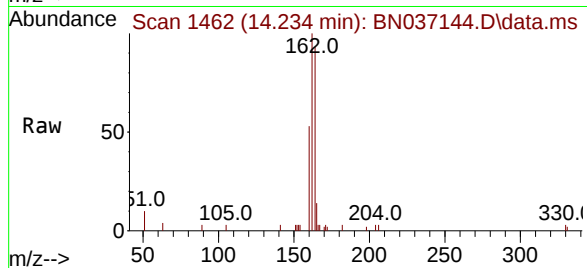




#13  
Acenaphthene-d10  
Concen: 0.400 ng  
RT: 14.234 min Scan# 1462  
Delta R.T. -0.000 min  
Lab File: BN037144.D  
Acq: 03 Jun 2025 12:15

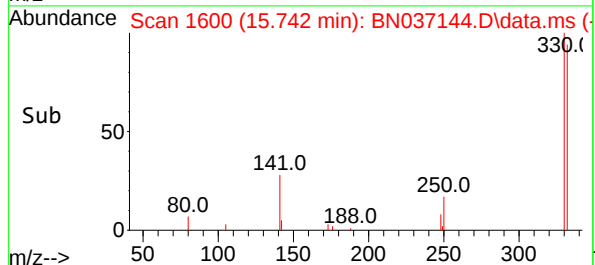
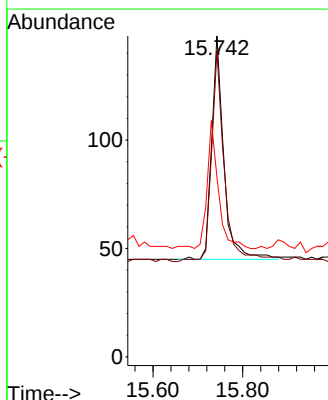
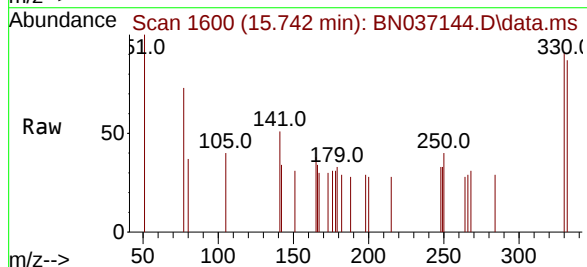
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC0.2

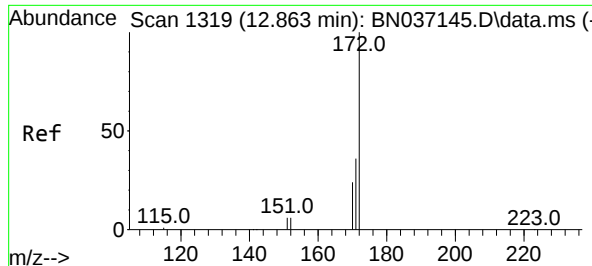
Tgt Ion:164 Resp: 2624  
Ion Ratio Lower Upper  
164 100  
162 107.7 85.5 128.3  
160 57.0 44.6 67.0



#14  
2,4,6-Tribromophenol  
Concen: 0.183 ng  
RT: 15.742 min Scan# 1600  
Delta R.T. -0.000 min  
Lab File: BN037144.D  
Acq: 03 Jun 2025 12:15

Tgt Ion:330 Resp: 193  
Ion Ratio Lower Upper  
330 100  
332 99.5 77.1 115.7  
141 52.3 46.4 69.6

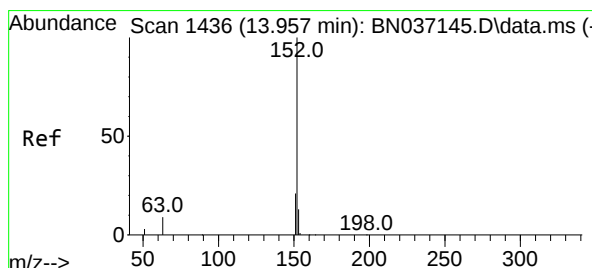
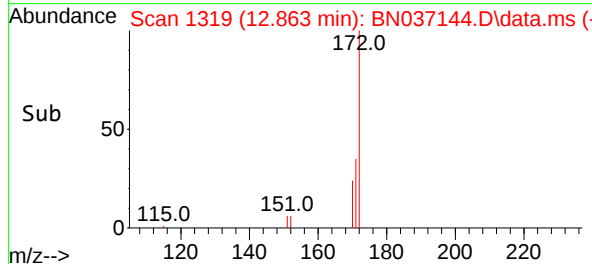
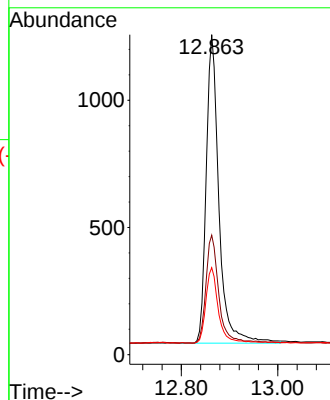
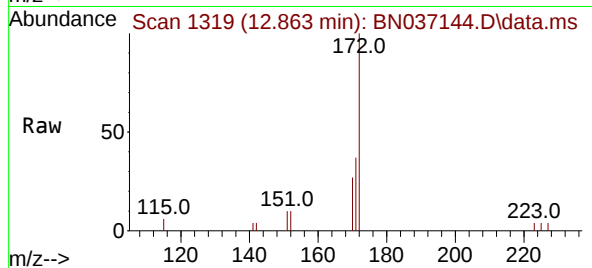




#15  
2-Fluorobiphenyl  
Concen: 0.198 ng  
RT: 12.863 min Scan# 1319  
Delta R.T. -0.000 min  
Lab File: BN037144.D  
Acq: 03 Jun 2025 12:15

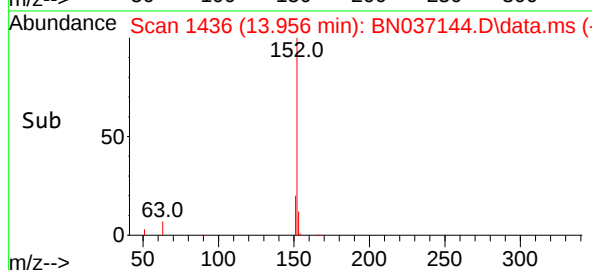
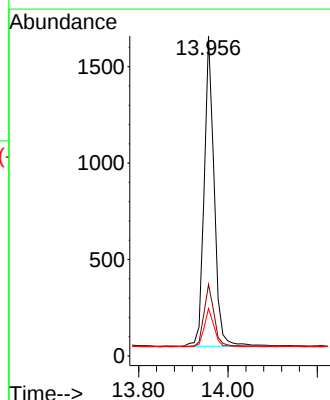
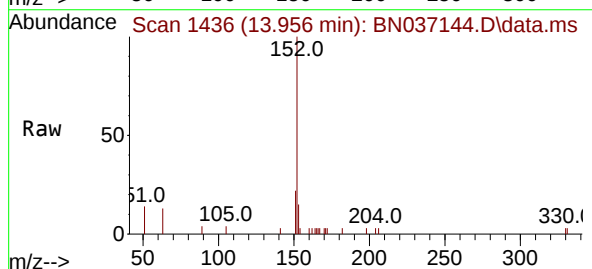
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC0.2

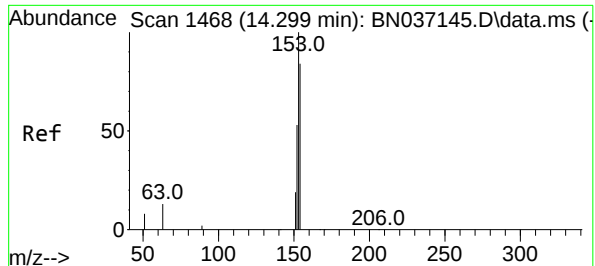
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 172   | Resp: | 2219  |
| Ion      | Ratio | Lower | Upper |
| 172      | 100   |       |       |
| 171      | 37.4  | 29.6  | 44.4  |
| 170      | 27.2  | 20.3  | 30.5  |



#16  
Acenaphthylene  
Concen: 0.194 ng  
RT: 13.956 min Scan# 1436  
Delta R.T. -0.000 min  
Lab File: BN037144.D  
Acq: 03 Jun 2025 12:15

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 152   | Resp: | 2500  |
| Ion      | Ratio | Lower | Upper |
| 152      | 100   |       |       |
| 151      | 20.4  | 16.3  | 24.5  |
| 153      | 12.6  | 10.6  | 15.8  |





#17

Acenaphthene

Concen: 0.197 ng

RT: 14.299 min Scan# 1468

Delta R.T. -0.000 min

Lab File: BN037144.D

Acq: 03 Jun 2025 12:15

Instrument :

BNA\_N

ClientSampleId :

SSTDICC0.2

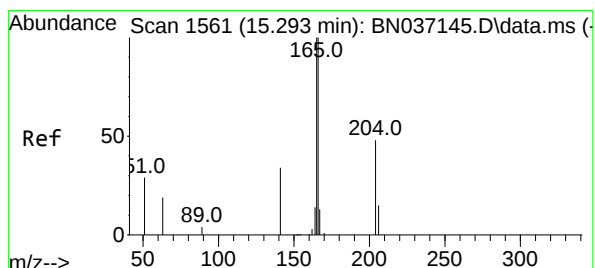
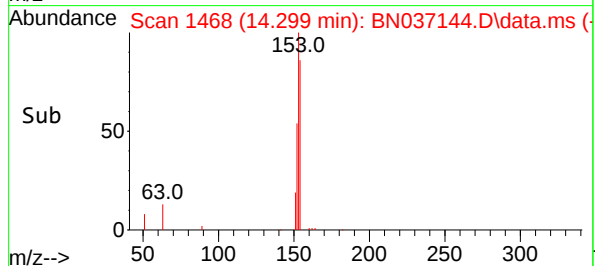
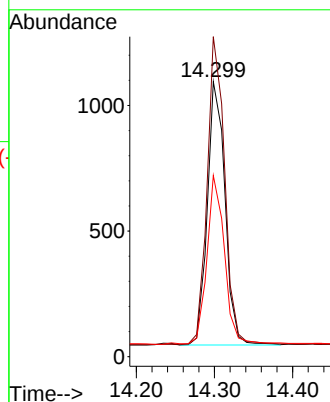
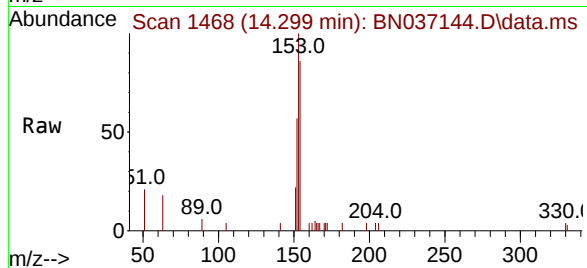
Tgt Ion:154 Resp: 1644

Ion Ratio Lower Upper

154 100

153 117.0 93.8 140.8

152 65.3 50.5 75.7



#18

Fluorene

Concen: 0.188 ng

RT: 15.293 min Scan# 1561

Delta R.T. -0.000 min

Lab File: BN037144.D

Acq: 03 Jun 2025 12:15

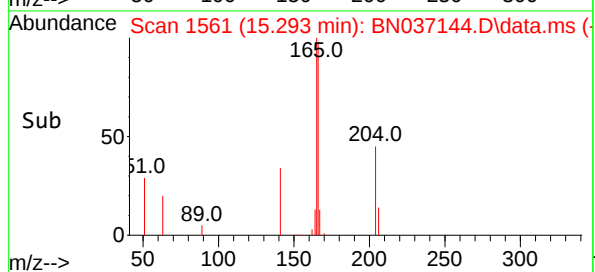
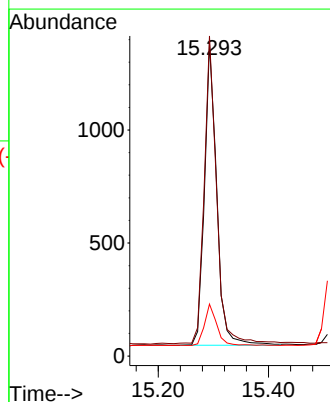
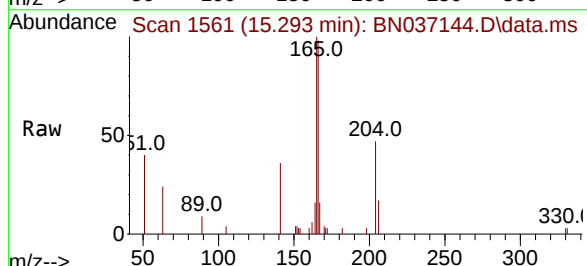
Tgt Ion:166 Resp: 2069

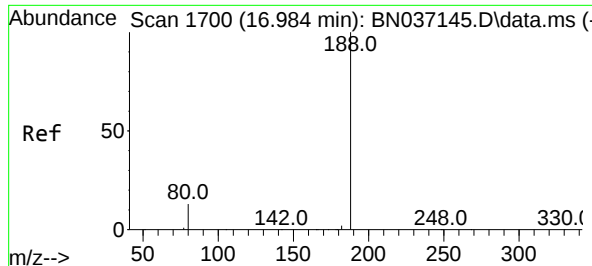
Ion Ratio Lower Upper

166 100

165 102.4 81.1 121.7

167 13.8 10.8 16.2





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 16.984 min Scan# 11

Delta R.T. -0.000 min

Lab File: BN037144.D

Acq: 03 Jun 2025 12:15

Instrument :

BNA\_N

ClientSampleId :

SSTDICC0.2

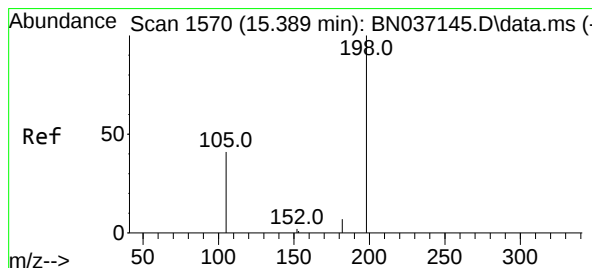
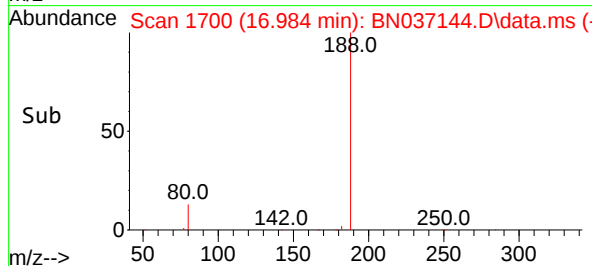
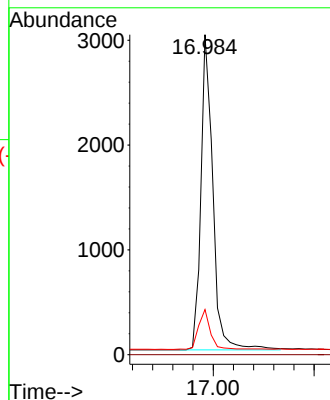
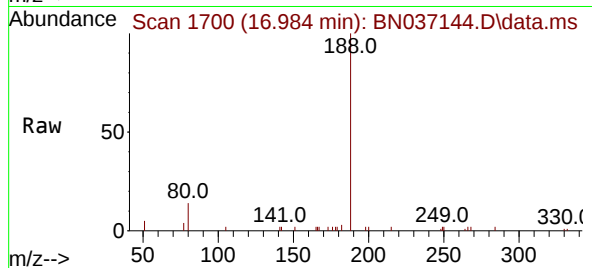
Tgt Ion:188 Resp: 4950

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 14.1 11.3 16.9



#20

4,6-Dinitro-2-methylphenol

Concen: 0.341 ng

RT: 15.400 min Scan# 1571

Delta R.T. 0.011 min

Lab File: BN037144.D

Acq: 03 Jun 2025 12:15

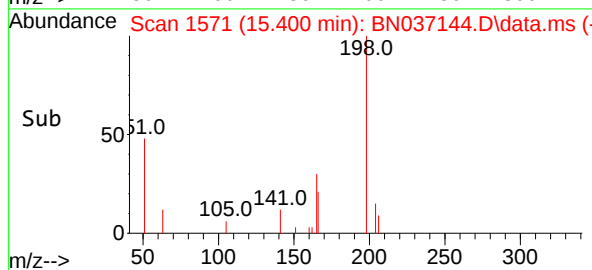
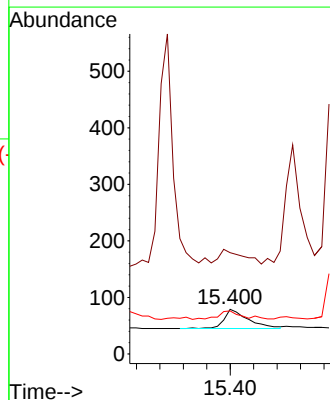
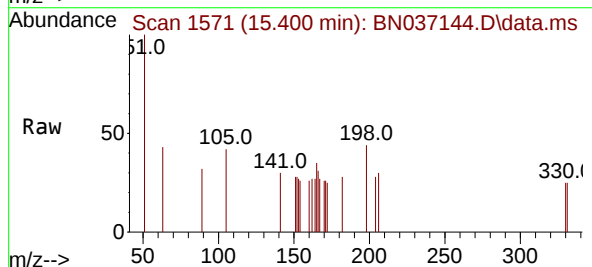
Tgt Ion:198 Resp: 97

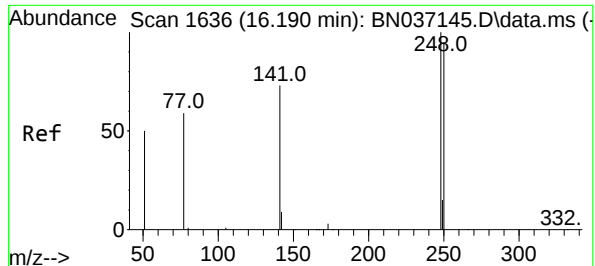
Ion Ratio Lower Upper

198 100

51 226.6 125.2 187.8#

105 96.2 57.1 85.7#

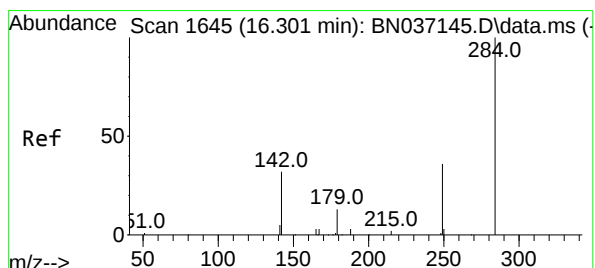
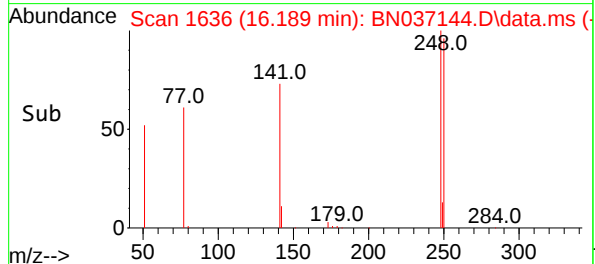
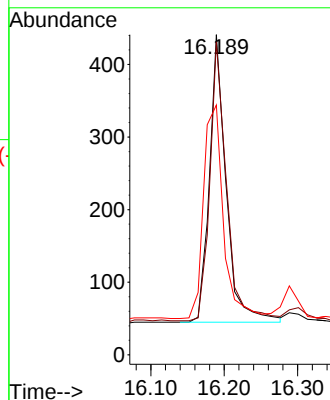
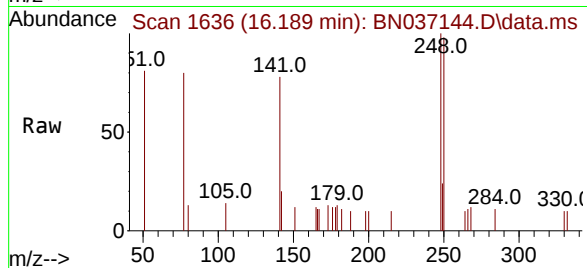




#21  
4-Bromophenyl-phenylether  
Concen: 0.193 ng  
RT: 16.189 min Scan# 1636  
Delta R.T. -0.000 min  
Lab File: BN037144.D  
Acq: 03 Jun 2025 12:15

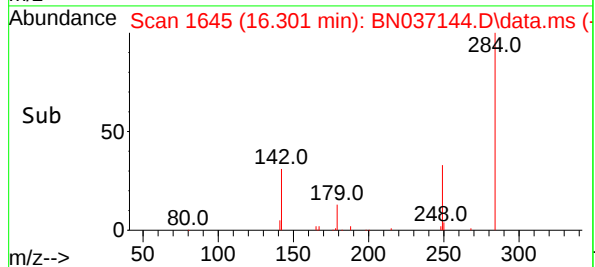
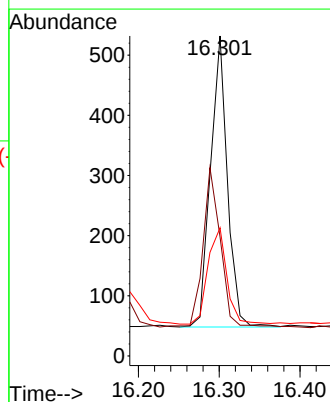
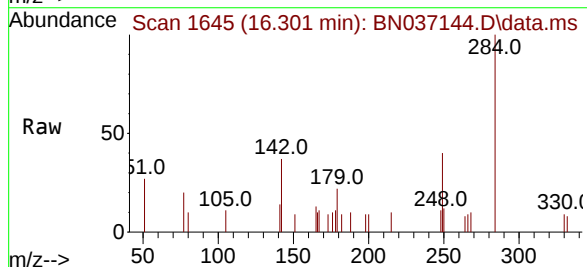
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC0.2

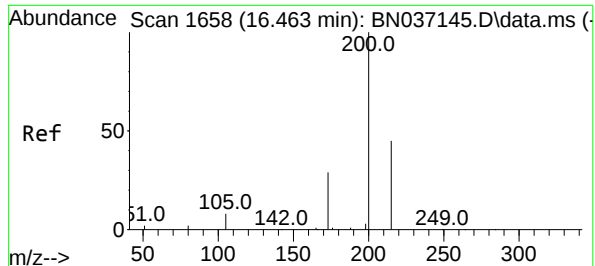
Tgt Ion:248 Resp: 626  
Ion Ratio Lower Upper  
248 100  
250 97.7 76.1 114.1  
141 78.0 60.1 90.1



#22  
Hexachlorobenzene  
Concen: 0.201 ng  
RT: 16.301 min Scan# 1645  
Delta R.T. -0.000 min  
Lab File: BN037144.D  
Acq: 03 Jun 2025 12:15

Tgt Ion:284 Resp: 703  
Ion Ratio Lower Upper  
284 100  
142 57.2 44.0 66.0  
249 36.7 29.7 44.5





#23

Atrazine

Concen: 0.184 ng

RT: 16.462 min Scan# 1658

Delta R.T. -0.000 min

Lab File: BN037144.D

Acq: 03 Jun 2025 12:15

Instrument :

BNA\_N

ClientSampleId :

SSTDICC0.2

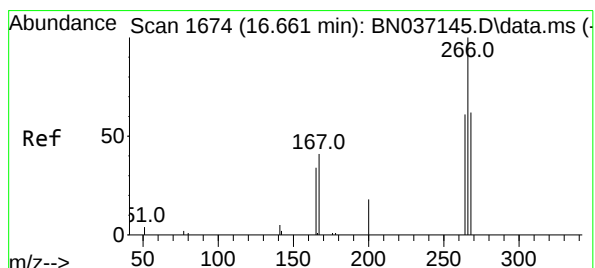
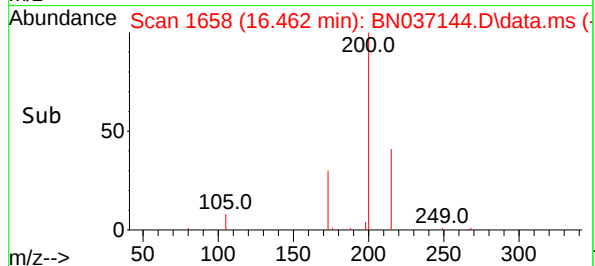
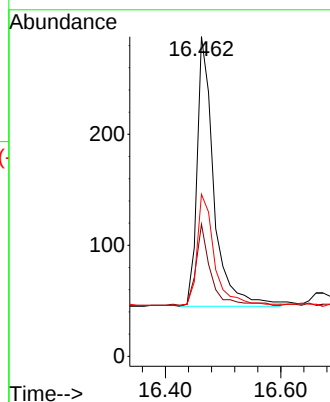
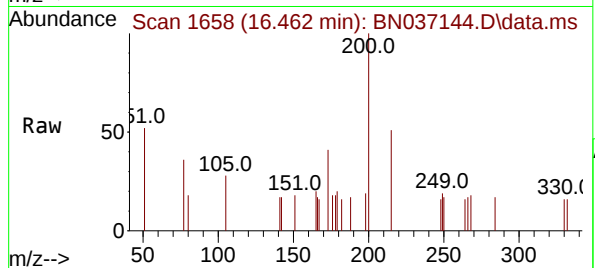
Tgt Ion:200 Resp: 494

Ion Ratio Lower Upper

200 100

173 41.3 28.1 42.1

215 50.7 39.3 58.9



#24

Pentachlorophenol

Concen: 0.317 ng

RT: 16.673 min Scan# 1675

Delta R.T. 0.012 min

Lab File: BN037144.D

Acq: 03 Jun 2025 12:15

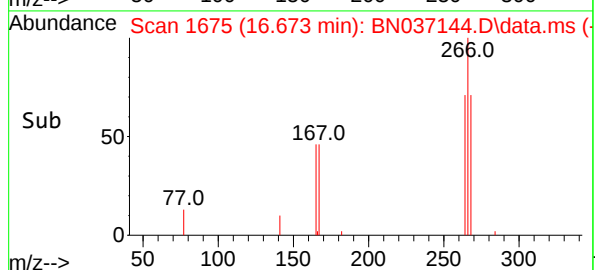
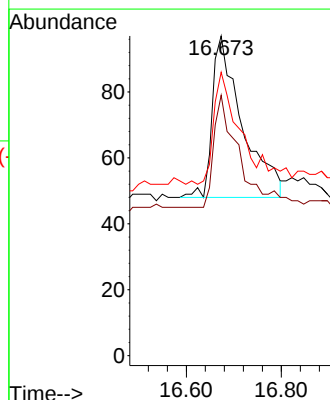
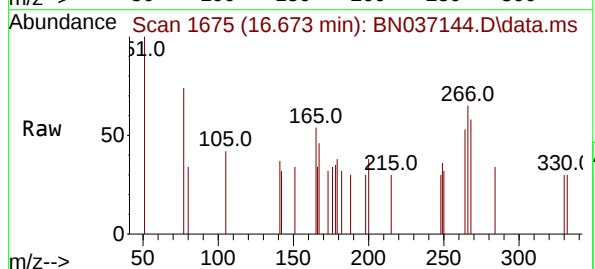
Tgt Ion:266 Resp: 214

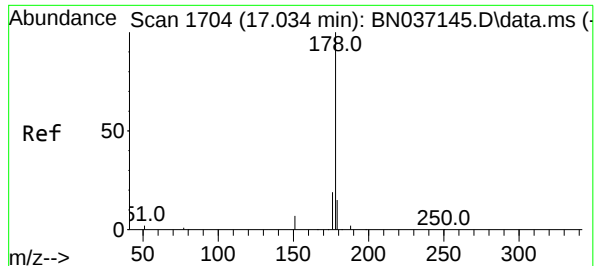
Ion Ratio Lower Upper

266 100

264 57.9 49.3 73.9

268 62.1 49.0 73.4

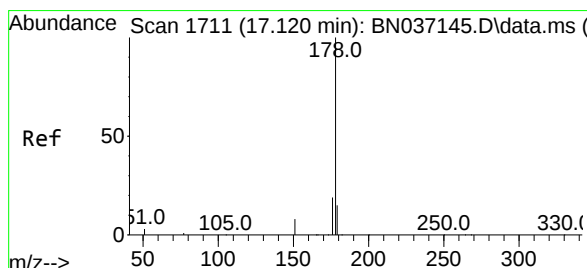
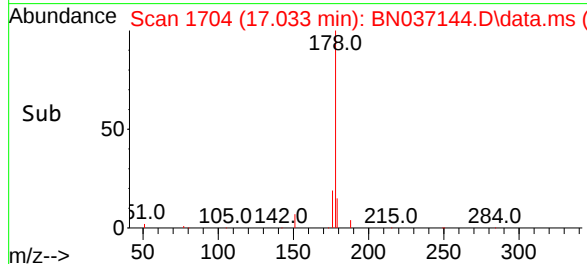
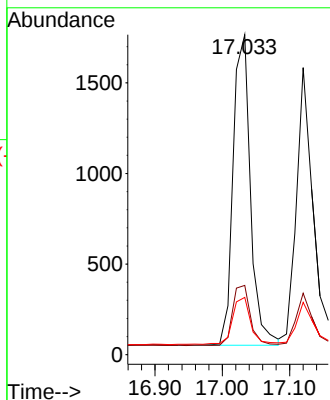
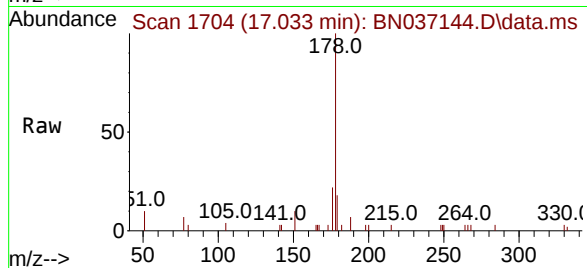




#25  
Phenanthrene  
Concen: 0.192 ng  
RT: 17.033 min Scan# 1704  
Delta R.T. -0.000 min  
Lab File: BN037144.D  
Acq: 03 Jun 2025 12:15

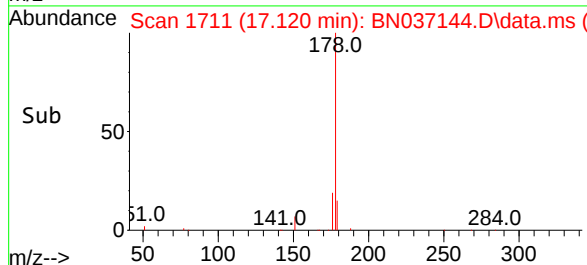
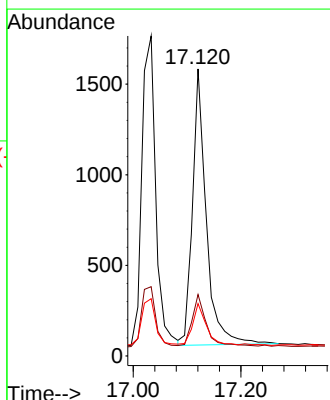
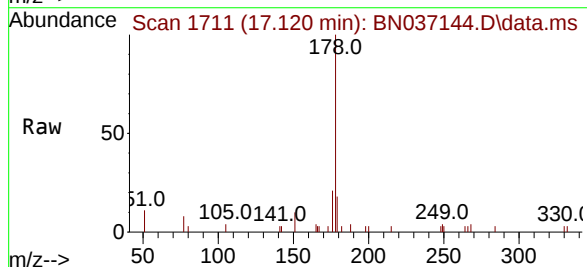
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC0.2

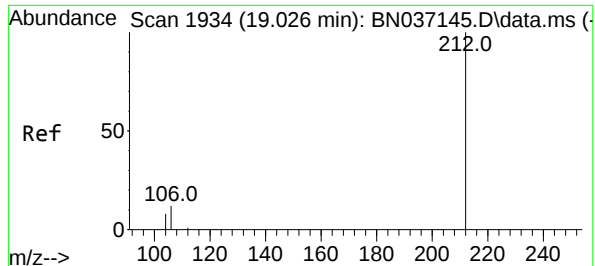
Tgt Ion:178 Resp: 3073  
Ion Ratio Lower Upper  
178 100  
176 20.0 15.7 23.5  
179 16.0 12.3 18.5



#26  
Anthracene  
Concen: 0.186 ng  
RT: 17.120 min Scan# 1711  
Delta R.T. -0.000 min  
Lab File: BN037144.D  
Acq: 03 Jun 2025 12:15

Tgt Ion:178 Resp: 2721  
Ion Ratio Lower Upper  
178 100  
176 18.9 15.2 22.8  
179 14.5 12.9 19.3





#27

Fluoranthene-d10

Concen: 0.184 ng

RT: 19.026 min Scan# 1934

Delta R.T. -0.000 min

Lab File: BN037144.D

Acq: 03 Jun 2025 12:15

Instrument :

BNA\_N

ClientSampleId :

SSTDIC0.2

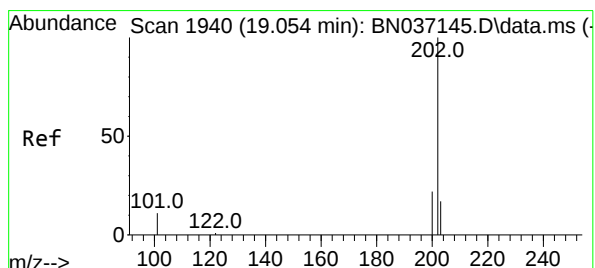
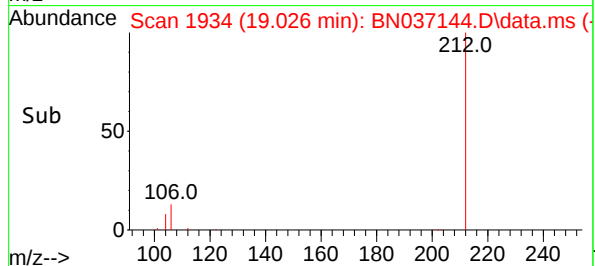
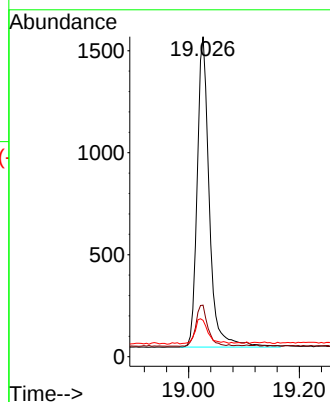
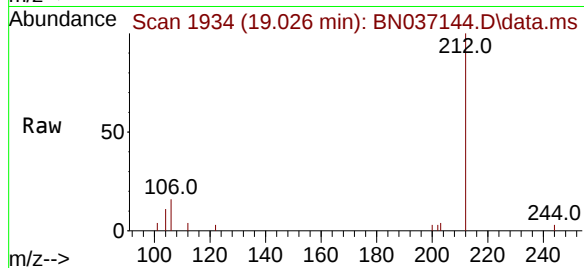
Tgt Ion:212 Resp: 2318

Ion Ratio Lower Upper

212 100

106 13.2 10.6 15.8

104 8.7 6.6 9.8



#28

Fluoranthene

Concen: 0.181 ng

RT: 19.054 min Scan# 1940

Delta R.T. -0.000 min

Lab File: BN037144.D

Acq: 03 Jun 2025 12:15

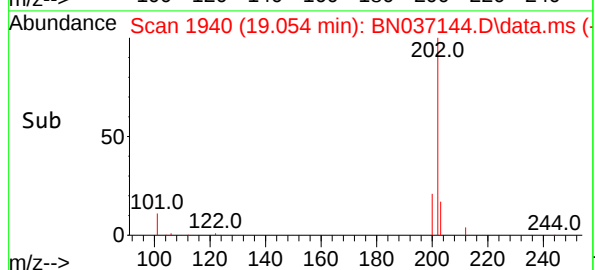
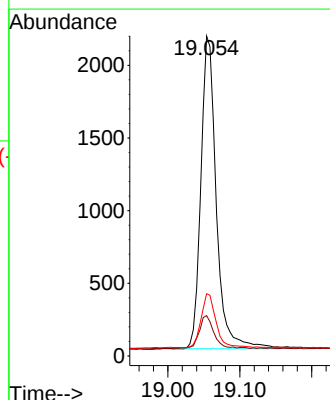
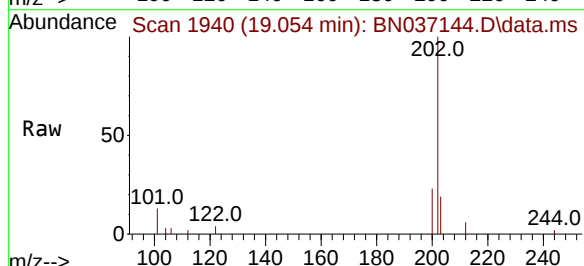
Tgt Ion:202 Resp: 3203

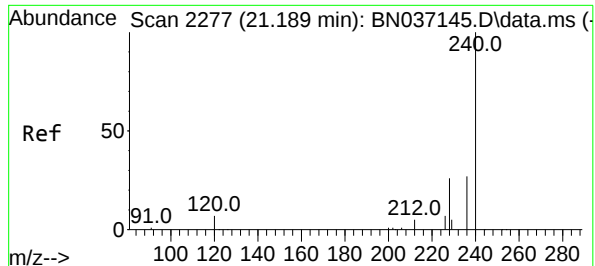
Ion Ratio Lower Upper

202 100

101 10.2 8.7 13.1

203 17.0 13.5 20.3





#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.188 min Scan# 21

Delta R.T. -0.000 min

Lab File: BN037144.D

Acq: 03 Jun 2025 12:15

Instrument :

BNA\_N

ClientSampleId :

SSTDICC0.2

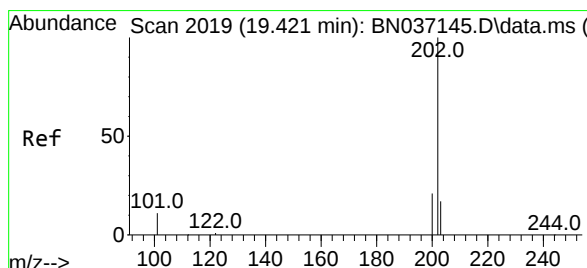
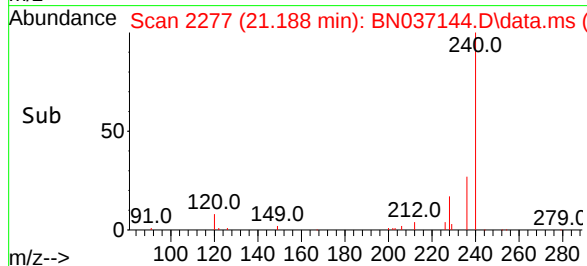
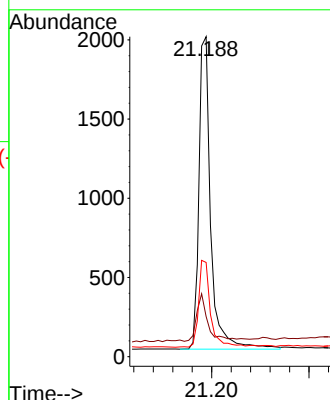
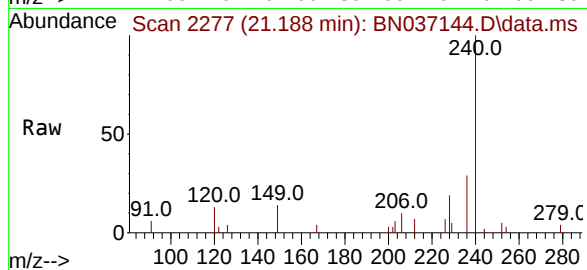
Tgt Ion:240 Resp: 3306

Ion Ratio Lower Upper

240 100

120 12.5 9.0 13.4

236 29.5 23.0 34.4



#30

Pyrene

Concen: 0.202 ng

RT: 19.421 min Scan# 2019

Delta R.T. -0.000 min

Lab File: BN037144.D

Acq: 03 Jun 2025 12:15

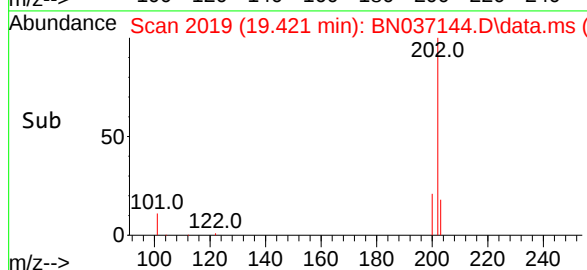
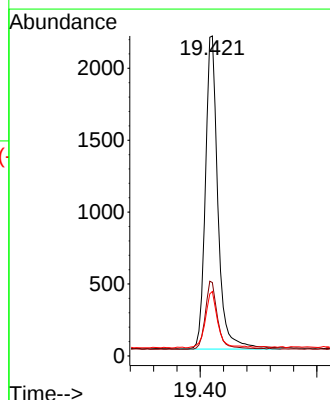
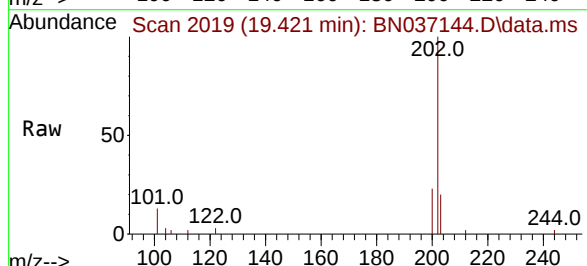
Tgt Ion:202 Resp: 3263

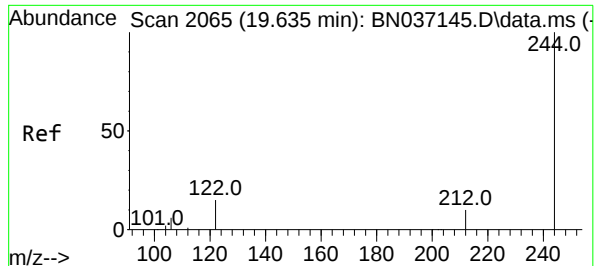
Ion Ratio Lower Upper

202 100

200 21.5 17.0 25.6

203 17.7 14.2 21.4

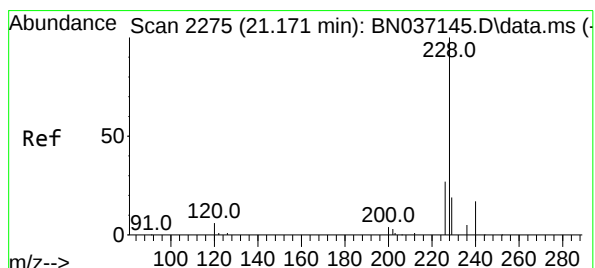
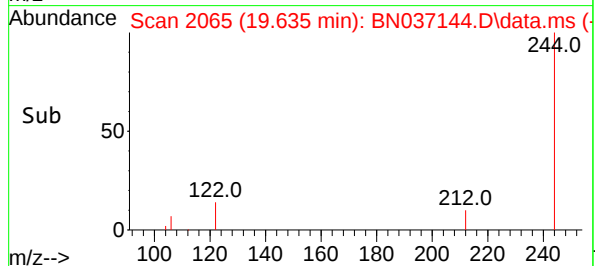
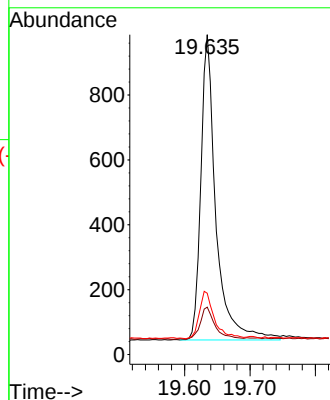
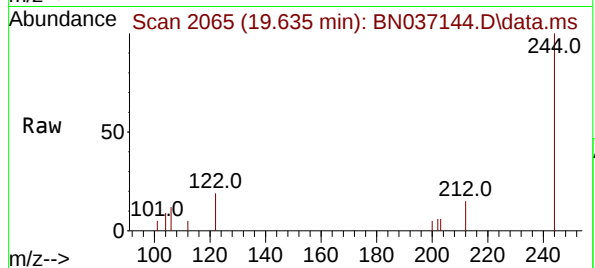




#31  
Terphenyl-d14  
Concen: 0.193 ng  
RT: 19.635 min Scan# 2065  
Delta R.T. -0.000 min  
Lab File: BN037144.D  
Acq: 03 Jun 2025 12:15

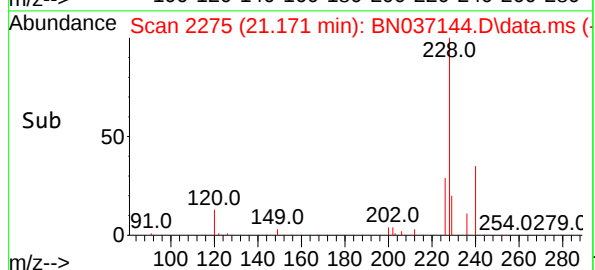
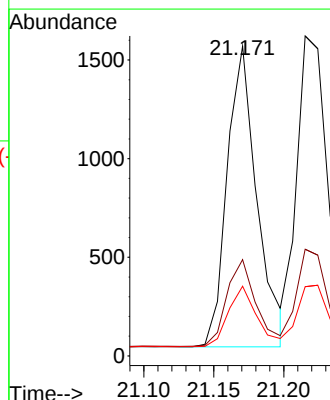
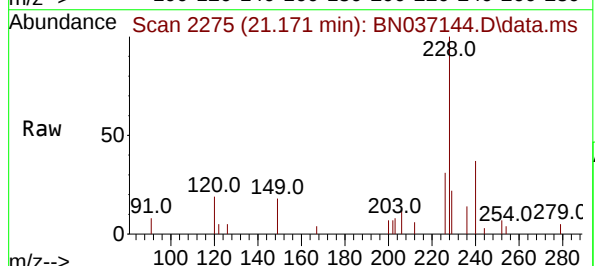
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC0.2

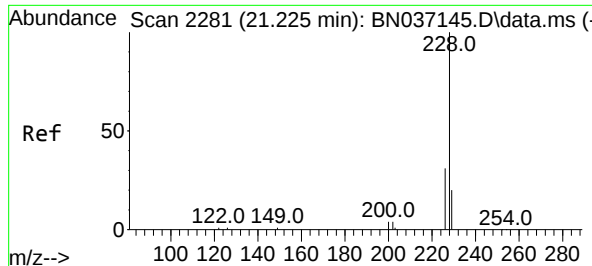
Tgt Ion:244 Resp: 1502  
Ion Ratio Lower Upper  
244 100  
212 14.8 10.0 15.0  
122 19.2 13.2 19.8



#32  
Benzo(a)anthracene  
Concen: 0.189 ng  
RT: 21.171 min Scan# 2275  
Delta R.T. -0.000 min  
Lab File: BN037144.D  
Acq: 03 Jun 2025 12:15

Tgt Ion:228 Resp: 2259  
Ion Ratio Lower Upper  
228 100  
226 31.1 22.6 33.8  
229 22.5 16.2 24.2





#33

Chrysene

Concen: 0.203 ng

RT: 21.215 min Scan# 21

Delta R.T. -0.009 min

Lab File: BN037144.D

Acq: 03 Jun 2025 12:15

Instrument :

BNA\_N

ClientSampleId :

SSTDIC0.2

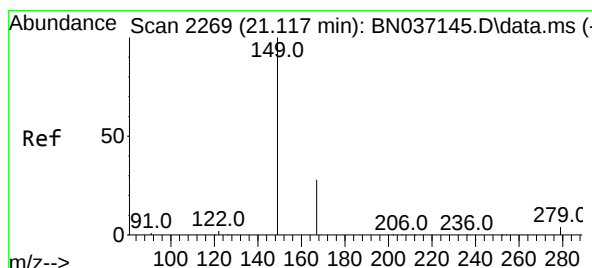
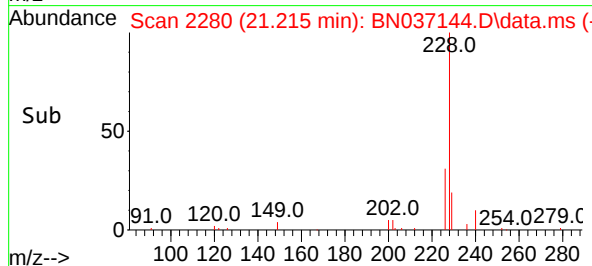
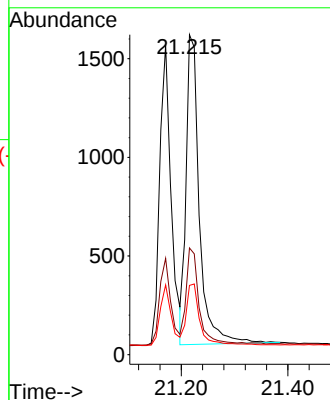
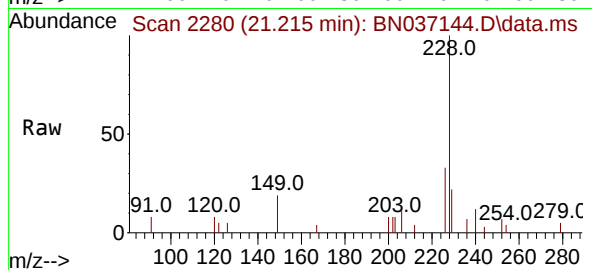
Tgt Ion:228 Resp: 2704

Ion Ratio Lower Upper

228 100

226 33.4 25.2 37.8

229 21.6 16.8 25.2



#34

Bis(2-ethylhexyl)phthalate

Concen: 0.188 ng

RT: 21.108 min Scan# 2268

Delta R.T. -0.009 min

Lab File: BN037144.D

Acq: 03 Jun 2025 12:15

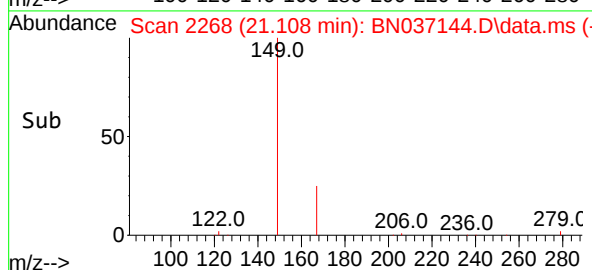
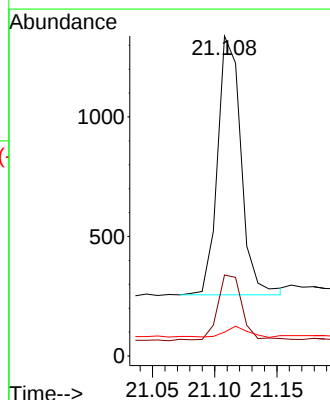
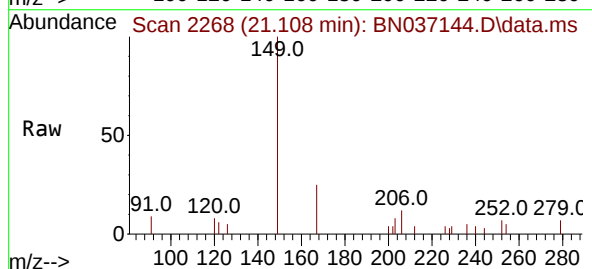
Tgt Ion:149 Resp: 1420

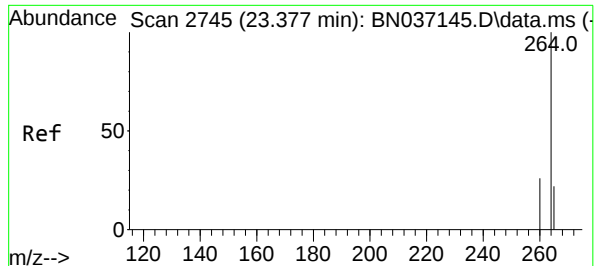
Ion Ratio Lower Upper

149 100

167 27.5 21.0 31.4

279 4.1 2.9 4.3





#35

Perylene-d12

Concen: 0.400 ng

RT: 23.374 min Scan# 21

Delta R.T. -0.003 min

Lab File: BN037144.D

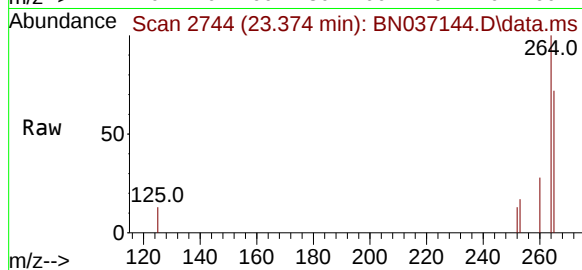
Acq: 03 Jun 2025 12:15

Instrument :

BNA\_N

ClientSampleId :

SSTDIC0.2



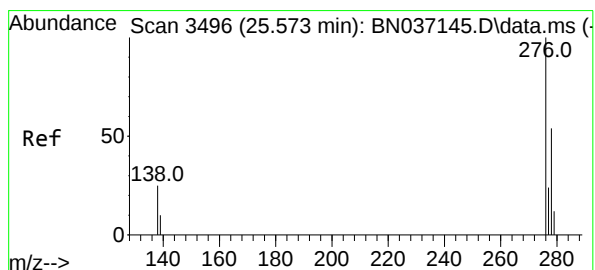
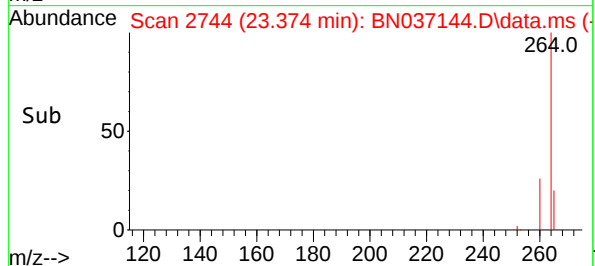
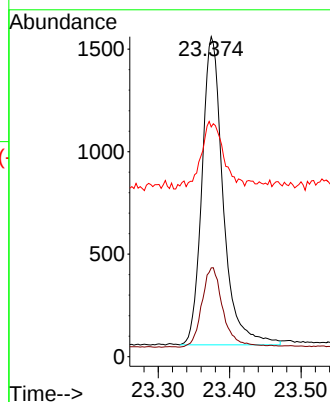
Tgt Ion:264 Resp: 3099

Ion Ratio Lower Upper

264 100

260 27.7 22.1 33.1

265 71.8 55.8 83.8



#36

Indeno(1,2,3-cd)pyrene

Concen: 0.202 ng

RT: 25.570 min Scan# 3495

Delta R.T. -0.003 min

Lab File: BN037144.D

Acq: 03 Jun 2025 12:15

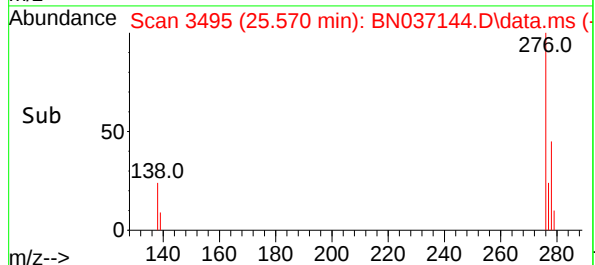
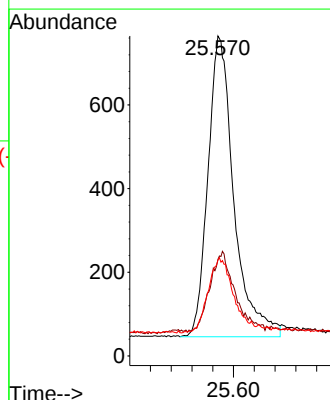
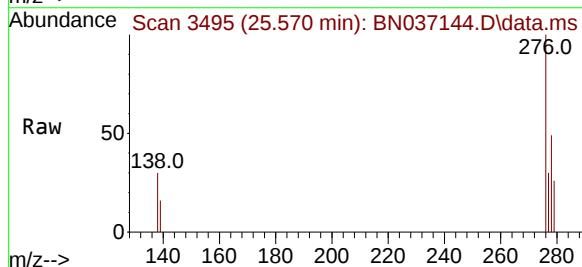
Tgt Ion:276 Resp: 2487

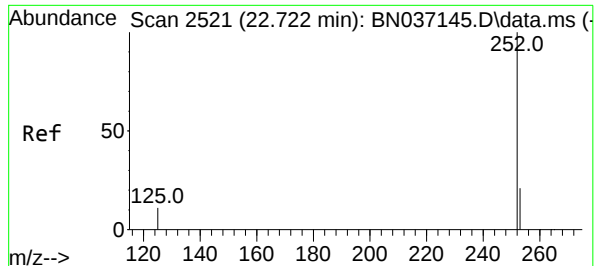
Ion Ratio Lower Upper

276 100

138 26.3 21.0 31.6

277 24.6 19.4 29.2





#37

Benzo(b)fluoranthene

Concen: 0.188 ng

RT: 22.719 min Scan# 2520

Delta R.T. -0.003 min

Lab File: BN037144.D

Acq: 03 Jun 2025 12:15

Instrument :

BNA\_N

ClientSampleId :

SSTDICC0.2

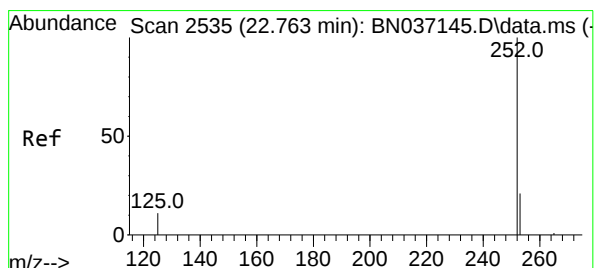
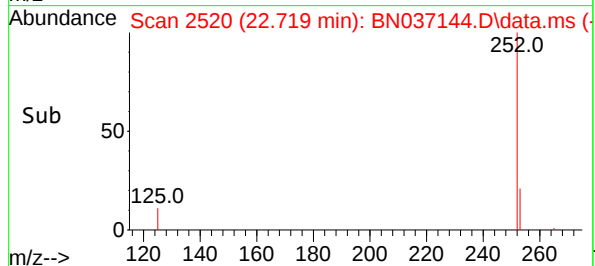
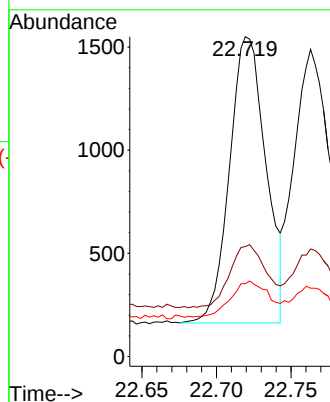
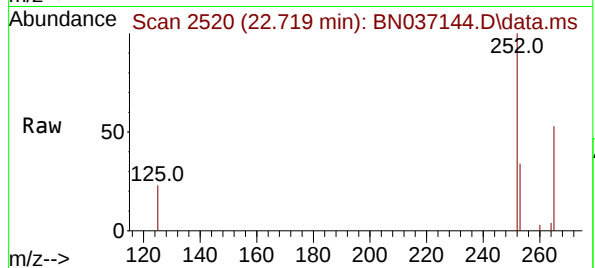
Tgt Ion:252 Resp: 2355

Ion Ratio Lower Upper

252 100

253 34.4 22.3 33.5#

125 22.8 13.2 19.8#



#38

Benzo(k)fluoranthene

Concen: 0.190 ng

RT: 22.763 min Scan# 2535

Delta R.T. -0.000 min

Lab File: BN037144.D

Acq: 03 Jun 2025 12:15

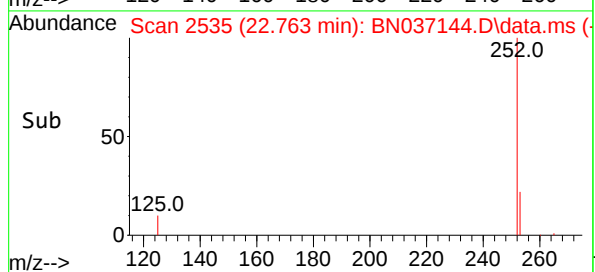
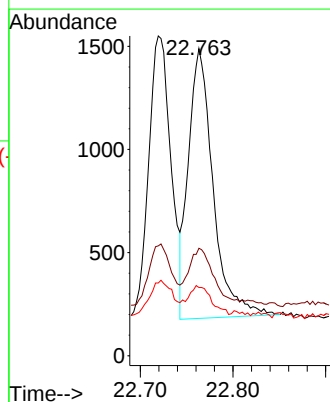
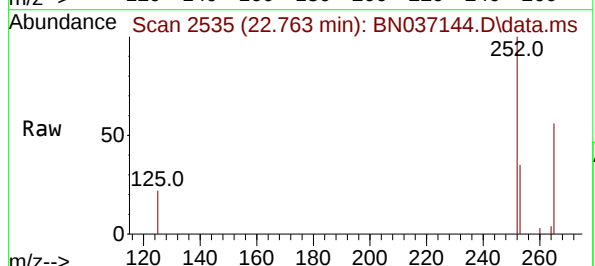
Tgt Ion:252 Resp: 2425

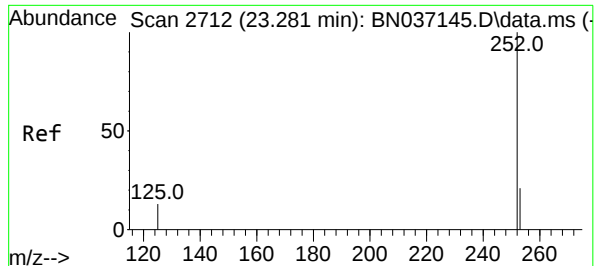
Ion Ratio Lower Upper

252 100

253 35.0 22.2 33.4#

125 22.2 13.2 19.8#





#39

Benzo(a)pyrene

Concen: 0.190 ng

RT: 23.281 min Scan# 21

Delta R.T. -0.000 min

Lab File: BN037144.D

Acq: 03 Jun 2025 12:15

Instrument :

BNA\_N

ClientSampleId :

SSTDICC0.2

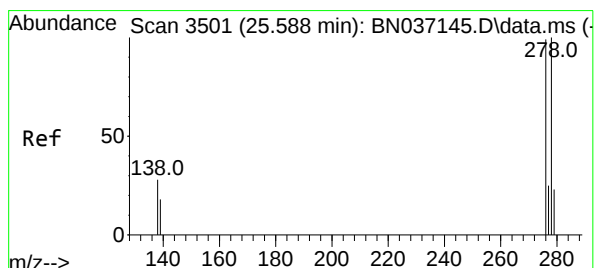
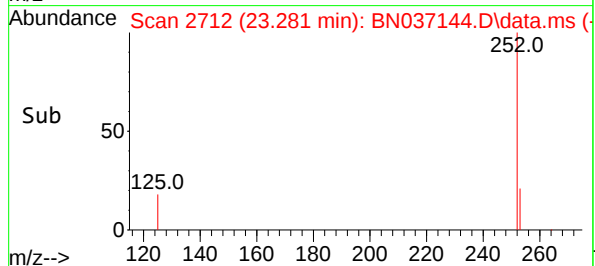
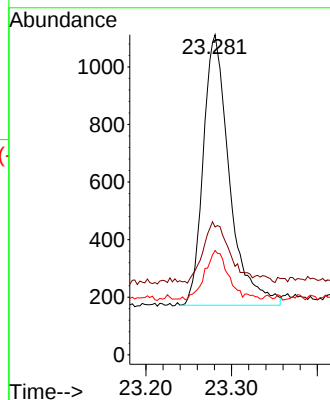
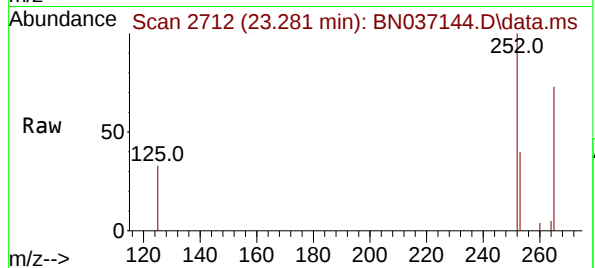
Tgt Ion:252 Resp: 1994

Ion Ratio Lower Upper

252 100

253 39.9 25.0 37.4#

125 32.6 17.0 25.6#



#40

Dibenzo(a,h)anthracene

Concen: 0.190 ng

RT: 25.587 min Scan# 3501

Delta R.T. -0.000 min

Lab File: BN037144.D

Acq: 03 Jun 2025 12:15

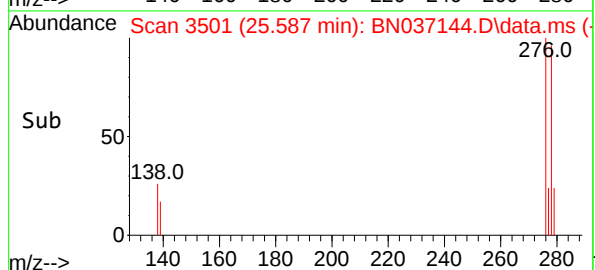
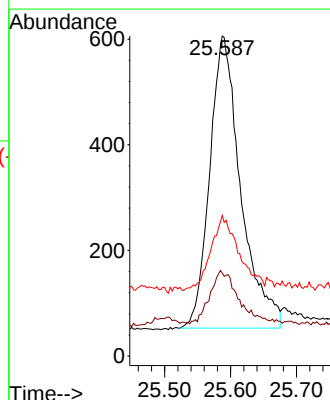
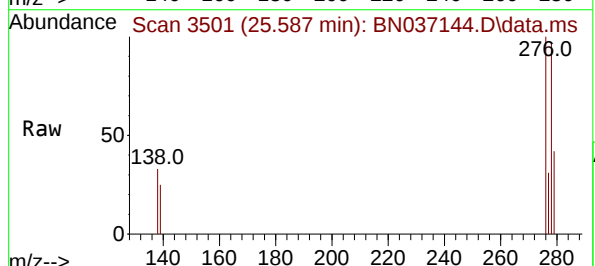
Tgt Ion:278 Resp: 1809

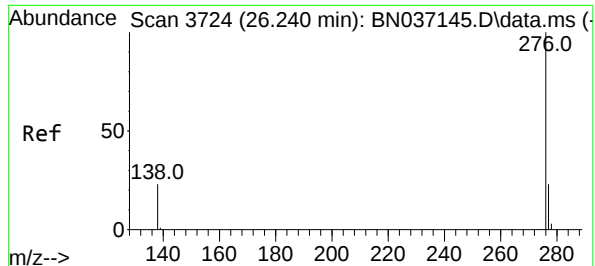
Ion Ratio Lower Upper

278 100

139 25.9 17.6 26.4

279 43.9 26.0 39.0#





#41

Benzo(g,h,i)perylene

Concen: 0.206 ng

RT: 26.239 min Scan# 31

Delta R.T. -0.000 min

Lab File: BN037144.D

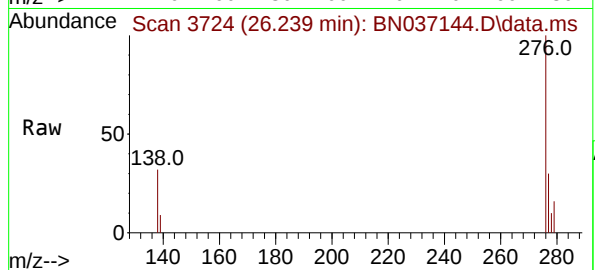
Acq: 03 Jun 2025 12:15

Instrument :

BNA\_N

ClientSampleId :

SSTDICC0.2



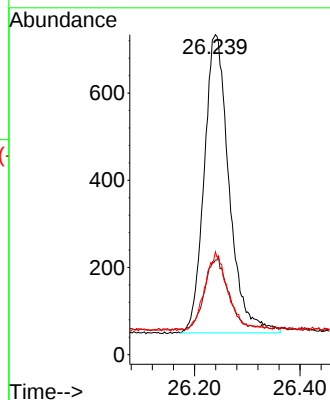
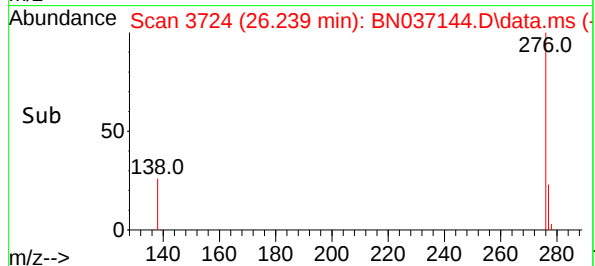
Tgt Ion:276 Resp: 2247

Ion Ratio Lower Upper

276 100

277 29.6 20.9 31.3

138 32.2 20.8 31.2#



Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN060325\  
 Data File : BN037145.D  
 Acq On : 03 Jun 2025 12:51  
 Operator : RC/JU  
 Sample : SSTDICCC0.4  
 Misc :  
 ALS Vial : 4 Sample Multiplier: 1

Instrument :  
 BNA\_N  
 ClientSampleId :  
 SSTDICCC0.4

Quant Time: Jun 04 01:42:08 2025  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\8270-SIM-BN060325.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Wed Jun 04 01:40:18 2025  
 Response via : Initial Calibration

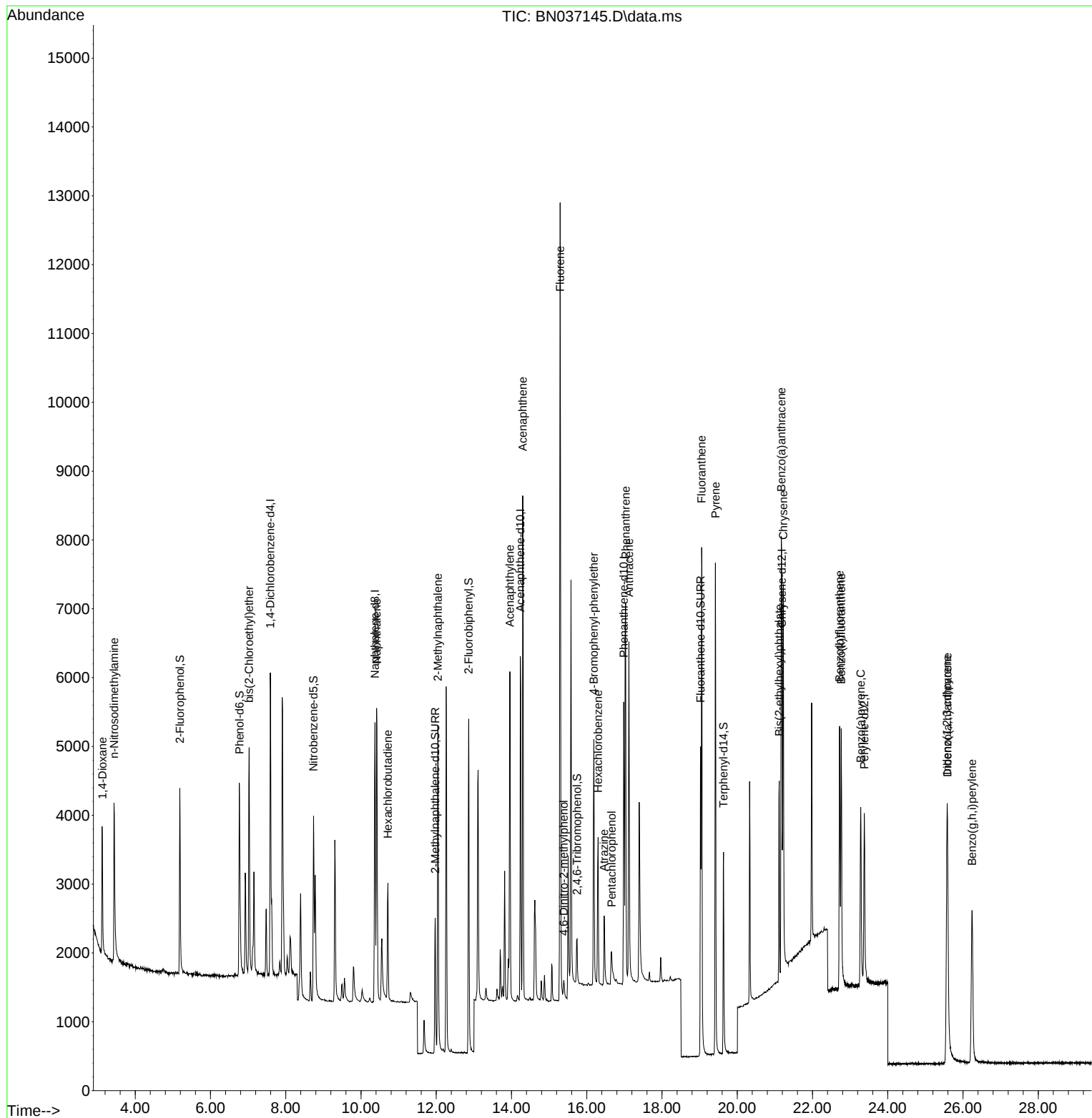
| Compound                      | R.T.   | QIon | Response | Conc  | Units | Dev(Min) |
|-------------------------------|--------|------|----------|-------|-------|----------|
| Internal Standards            |        |      |          |       |       |          |
| 1) 1,4-Dichlorobenzene-d4     | 7.590  | 152  | 2099     | 0.400 | ng    | 0.00     |
| 7) Naphthalene-d8             | 10.372 | 136  | 5221     | 0.400 | ng    | 0.00     |
| 13) Acenaphthene-d10          | 14.235 | 164  | 2886     | 0.400 | ng    | 0.00     |
| 19) Phenanthrene-d10          | 16.984 | 188  | 5446     | 0.400 | ng    | 0.00     |
| 29) Chrysene-d12              | 21.189 | 240  | 3769     | 0.400 | ng    | 0.00     |
| 35) Perylene-d12              | 23.377 | 264  | 3386     | 0.400 | ng    | 0.00     |
| System Monitoring Compounds   |        |      |          |       |       |          |
| 4) 2-Fluorophenol             | 5.184  | 112  | 1973     | 0.380 | ng    | 0.00     |
| 5) Phenol-d6                  | 6.773  | 99   | 2365     | 0.376 | ng    | 0.00     |
| 8) Nitrobenzene-d5            | 8.739  | 82   | 2197     | 0.399 | ng    | 0.00     |
| 11) 2-Methylnaphthalene-d10   | 11.971 | 152  | 2936     | 0.404 | ng    | 0.00     |
| 14) 2,4,6-Tribromophenol      | 15.743 | 330  | 421      | 0.362 | ng    | 0.00     |
| 15) 2-Fluorobiphenyl          | 12.863 | 172  | 4694     | 0.381 | ng    | 0.00     |
| 27) Fluoranthene-d10          | 19.026 | 212  | 5309     | 0.384 | ng    | 0.00     |
| 31) Terphenyl-d14             | 19.635 | 244  | 3376     | 0.381 | ng    | 0.00     |
| Target Compounds              |        |      |          |       |       |          |
|                               |        |      |          |       |       | Qvalue   |
| 2) 1,4-Dioxane                | 3.126  | 88   | 1070     | 0.382 | ng    | 100      |
| 3) n-Nitrosodimethylamine     | 3.437  | 42   | 2228     | 0.397 | ng    | 100      |
| 6) bis(2-Chloroethyl)ether    | 7.026  | 93   | 2367     | 0.394 | ng    | 100      |
| 9) Naphthalene                | 10.415 | 128  | 5840     | 0.388 | ng    | 100      |
| 10) Hexachlorobutadiene       | 10.714 | 225  | 1363     | 0.415 | ng    | # 100    |
| 12) 2-Methylnaphthalene       | 12.042 | 142  | 3609     | 0.374 | ng    | 100      |
| 16) Acenaphthylene            | 13.957 | 152  | 5103     | 0.361 | ng    | 100      |
| 17) Acenaphthene              | 14.299 | 154  | 3344     | 0.364 | ng    | 100      |
| 18) Fluorene                  | 15.293 | 166  | 4380     | 0.363 | ng    | 100      |
| 20) 4,6-Dinitro-2-methylph... | 15.389 | 198  | 272      | 0.445 | ng    | 100      |
| 21) 4-Bromophenyl-phenylether | 16.190 | 248  | 1329     | 0.372 | ng    | 100      |
| 22) Hexachlorobenzene         | 16.301 | 284  | 1463     | 0.380 | ng    | 100      |
| 23) Atrazine                  | 16.463 | 200  | 1018     | 0.345 | ng    | 100      |
| 24) Pentachlorophenol         | 16.661 | 266  | 502      | 0.433 | ng    | 100      |
| 25) Phenanthrene              | 17.034 | 178  | 6496     | 0.368 | ng    | 100      |
| 26) Anthracene                | 17.120 | 178  | 5644     | 0.351 | ng    | 100      |
| 28) Fluoranthene              | 19.054 | 202  | 6952     | 0.357 | ng    | 100      |
| 30) Pyrene                    | 19.421 | 202  | 6885     | 0.374 | ng    | 100      |
| 32) Benzo(a)anthracene        | 21.171 | 228  | 4866     | 0.357 | ng    | 100      |
| 33) Chrysene                  | 21.225 | 228  | 5553     | 0.366 | ng    | 100      |
| 34) Bis(2-ethylhexyl)phtha... | 21.117 | 149  | 2918     | 0.339 | ng    | 100      |
| 36) Indeno(1,2,3-cd)pyrene    | 25.573 | 276  | 5083     | 0.377 | ng    | 100      |
| 37) Benzo(b)fluoranthene      | 22.722 | 252  | 4811     | 0.352 | ng    | 100      |
| 38) Benzo(k)fluoranthene      | 22.763 | 252  | 4946     | 0.354 | ng    | 100      |
| 39) Benzo(a)pyrene            | 23.281 | 252  | 4127     | 0.360 | ng    | 100      |
| 40) Dibenzo(a,h)anthracene    | 25.588 | 278  | 3928     | 0.378 | ng    | 100      |
| 41) Benzo(g,h,i)perylene      | 26.240 | 276  | 4576     | 0.383 | ng    | 100      |

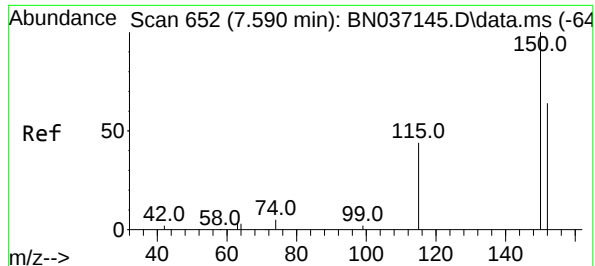
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN060325\  
Data File : BN037145.D  
Acq On : 03 Jun 2025 12:51  
Operator : RC/JU  
Sample : SSTDICCC0.4  
Misc :  
ALS Vial : 4 Sample Multiplier: 1

Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICCC0.4

Quant Time: Jun 04 01:42:08 2025  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\8270-SIM-BN060325.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Wed Jun 04 01:40:18 2025  
Response via : Initial Calibration

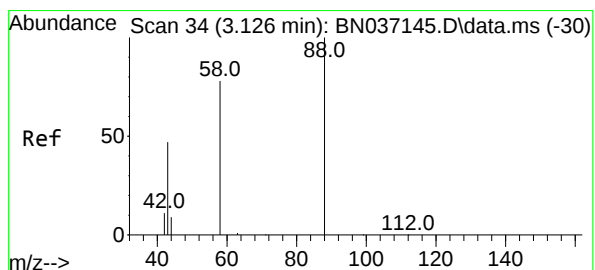
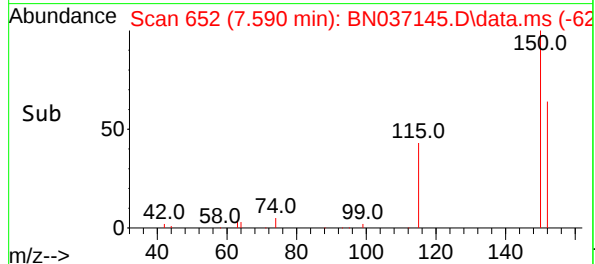
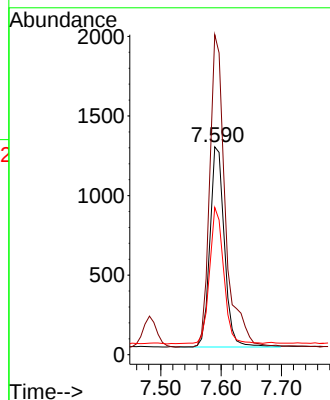
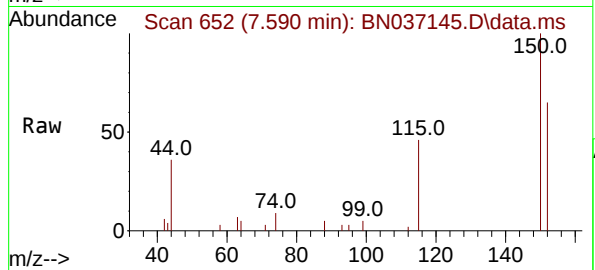




#1  
1,4-Dichlorobenzene-d4  
Concen: 0.400 ng  
RT: 7.590 min Scan# 61  
Delta R.T. -0.000 min  
Lab File: BN037145.D  
Acq: 03 Jun 2025 12:51

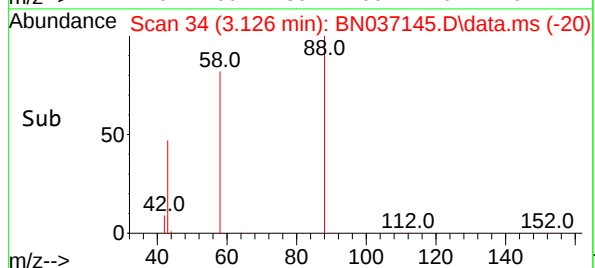
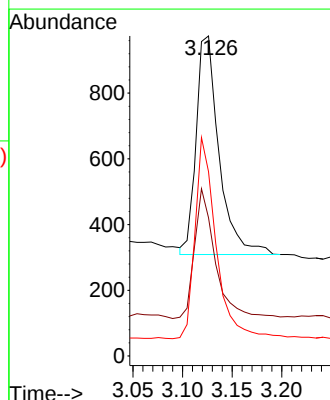
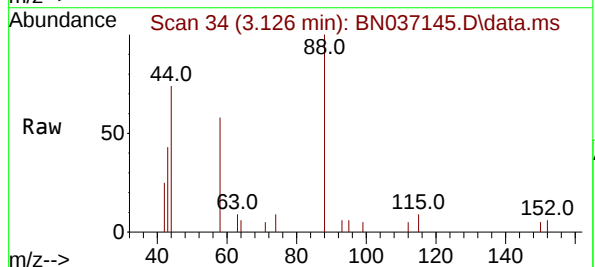
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICCC0.4

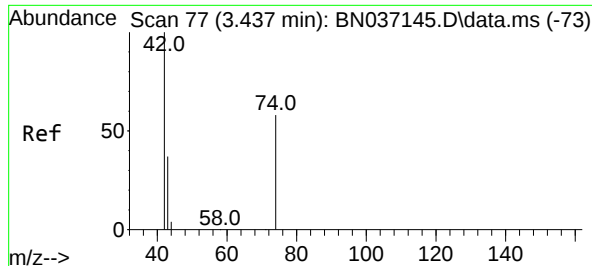
Tgt Ion:152 Resp: 2099  
Ion Ratio Lower Upper  
152 100  
150 154.0 123.2 184.8  
115 70.8 56.6 85.0



#2  
1,4-Dioxane  
Concen: 0.382 ng  
RT: 3.126 min Scan# 34  
Delta R.T. 0.000 min  
Lab File: BN037145.D  
Acq: 03 Jun 2025 12:51

Tgt Ion: 88 Resp: 1070  
Ion Ratio Lower Upper  
88 100  
43 54.3 43.5 65.3  
58 84.5 67.7 101.5

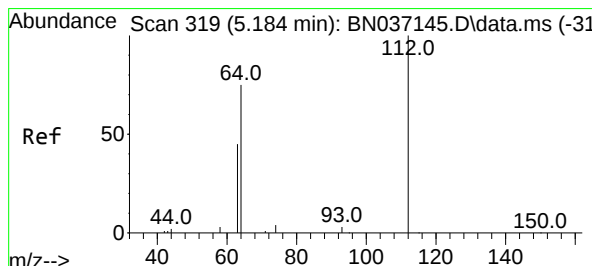
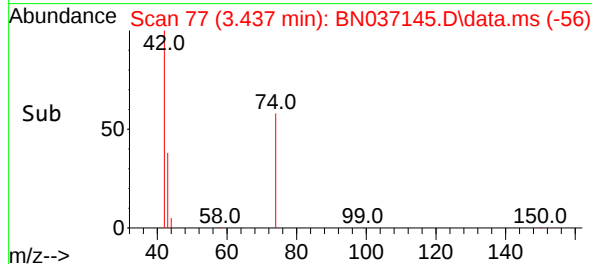
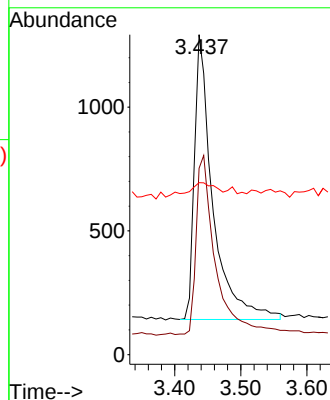
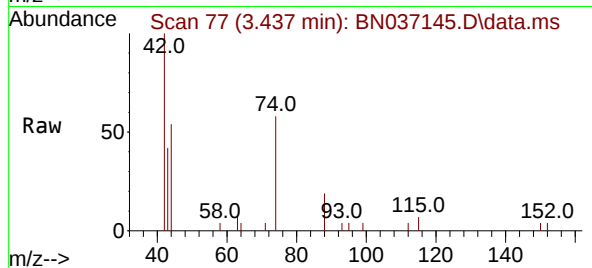




#3  
n-Nitrosodimethylamine  
Concen: 0.397 ng  
RT: 3.437 min Scan# 77  
Delta R.T. 0.000 min  
Lab File: BN037145.D  
Acq: 03 Jun 2025 12:51

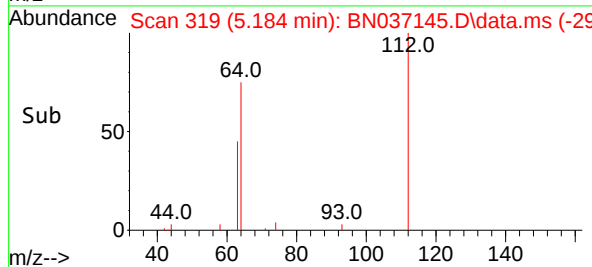
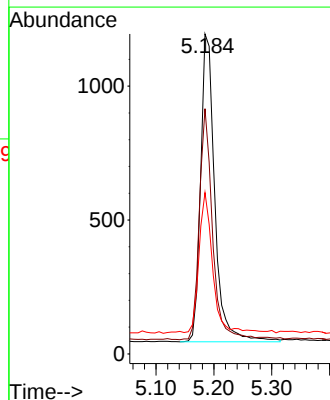
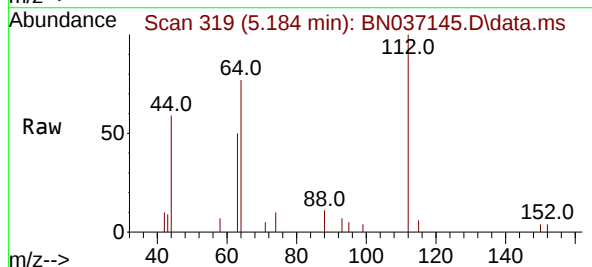
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICCC0.4

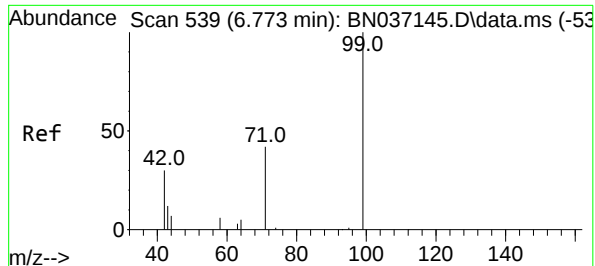
Tgt Ion: 42 Resp: 2228  
Ion Ratio Lower Upper  
42 100  
74 66.2 53.0 79.4  
44 7.4 5.9 8.9



#4  
2-Fluorophenol  
Concen: 0.380 ng  
RT: 5.184 min Scan# 319  
Delta R.T. 0.000 min  
Lab File: BN037145.D  
Acq: 03 Jun 2025 12:51

Tgt Ion: 112 Resp: 1973  
Ion Ratio Lower Upper  
112 100  
64 70.4 56.3 84.5  
63 45.3 36.2 54.4

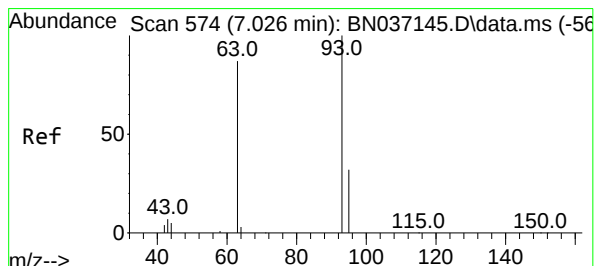
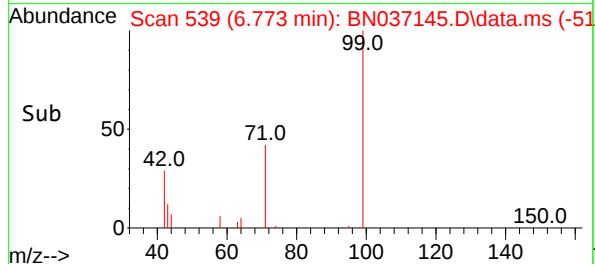
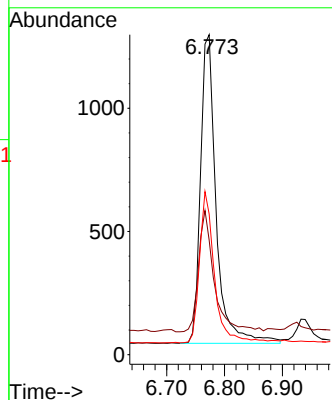
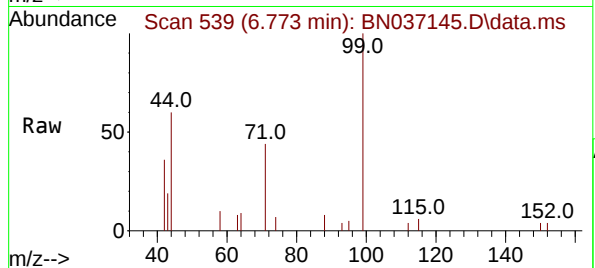




#5  
Phenol-d6  
Concen: 0.376 ng  
RT: 6.773 min Scan# 51  
Delta R.T. 0.000 min  
Lab File: BN037145.D  
Acq: 03 Jun 2025 12:51

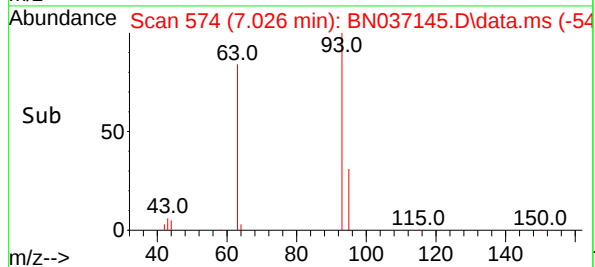
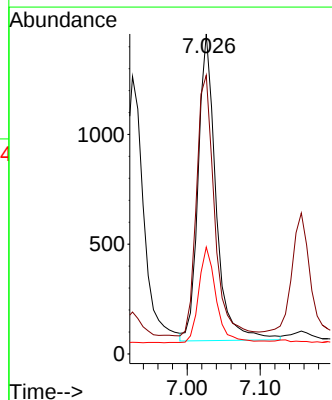
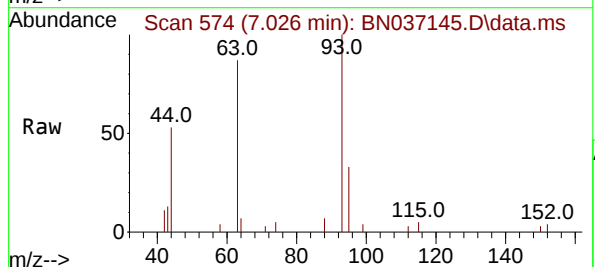
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICCC0.4

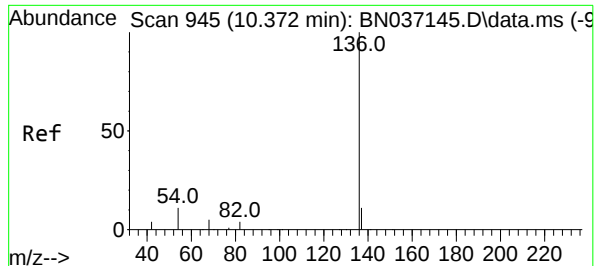
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 99    | Resp: | 2365  |
| Ion      | Ratio | Lower | Upper |
| 99       | 100   |       |       |
| 42       | 39.1  | 31.3  | 46.9  |
| 71       | 47.7  | 38.2  | 57.2  |



#6  
bis(2-Chloroethyl)ether  
Concen: 0.394 ng  
RT: 7.026 min Scan# 574  
Delta R.T. 0.000 min  
Lab File: BN037145.D  
Acq: 03 Jun 2025 12:51

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 93    | Resp: | 2367  |
| Ion      | Ratio | Lower | Upper |
| 93       | 100   |       |       |
| 63       | 85.5  | 68.6  | 103.0 |
| 95       | 30.3  | 24.3  | 36.5  |

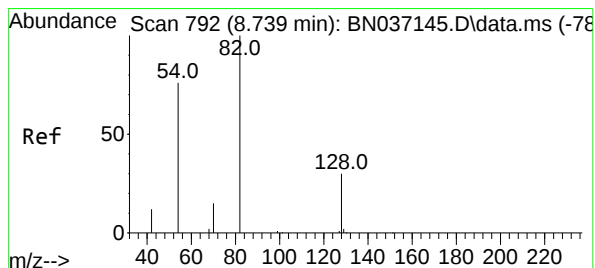
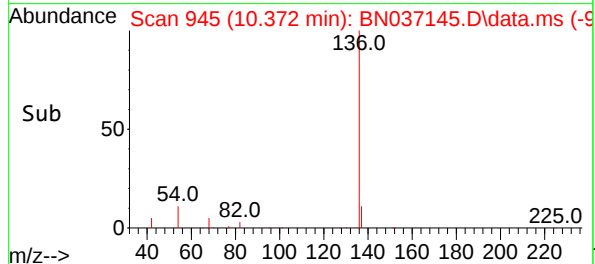
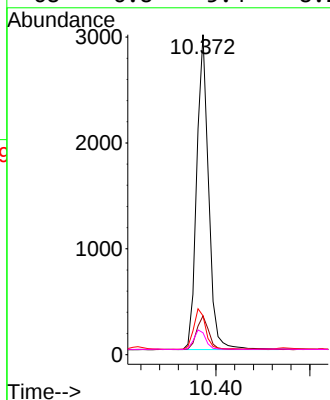
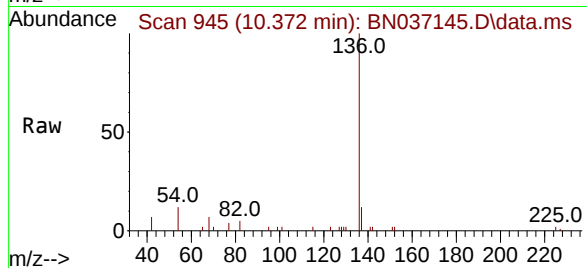




#7  
Naphthalene-d8  
Concen: 0.400 ng  
RT: 10.372 min Scan# 945  
Delta R.T. 0.000 min  
Lab File: BN037145.D  
Acq: 03 Jun 2025 12:51

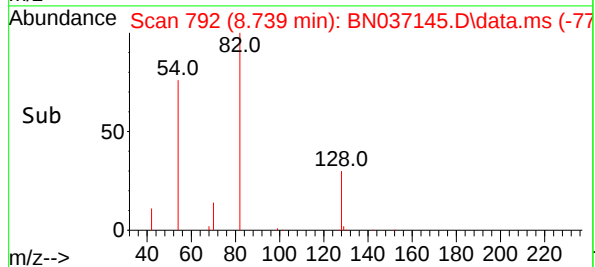
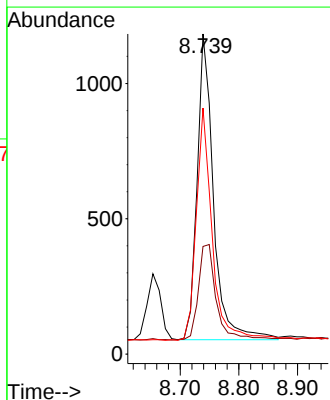
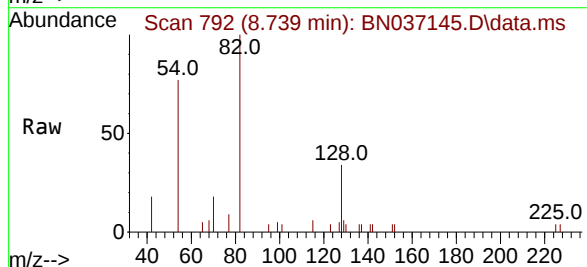
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICCC0.4

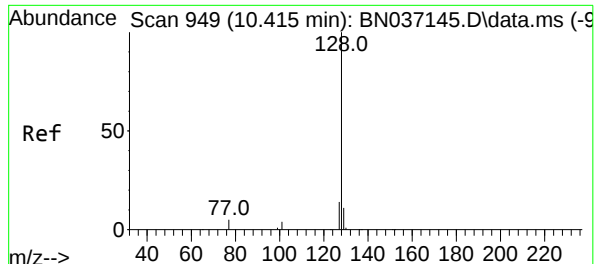
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 136   | Resp: | 5221  |
| Ion      | Ratio | Lower | Upper |
| 136      | 100   |       |       |
| 137      | 12.1  | 9.7   | 14.5  |
| 54       | 12.1  | 9.7   | 14.5  |
| 68       | 6.8   | 5.4   | 8.2   |



#8  
Nitrobenzene-d5  
Concen: 0.399 ng  
RT: 8.739 min Scan# 792  
Delta R.T. 0.000 min  
Lab File: BN037145.D  
Acq: 03 Jun 2025 12:51

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 82    | Resp: | 2197  |
| Ion      | Ratio | Lower | Upper |
| 82       | 100   |       |       |
| 128      | 33.6  | 26.9  | 40.3  |
| 54       | 76.8  | 61.4  | 92.2  |

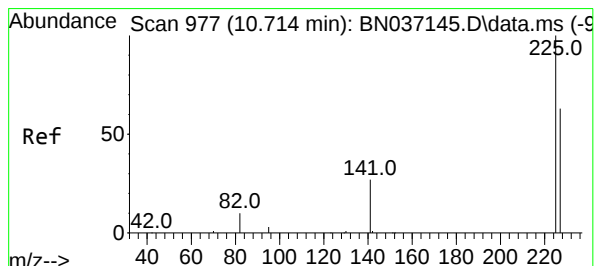
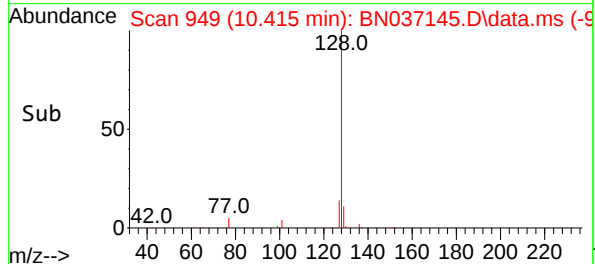
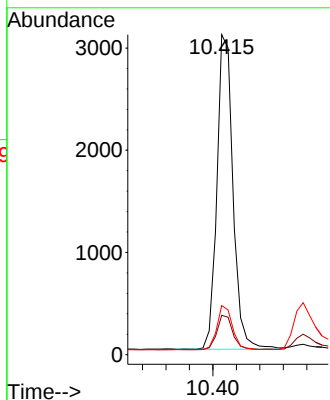
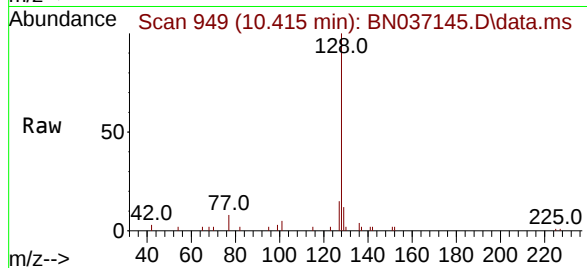




#9  
Naphthalene  
Concen: 0.388 ng  
RT: 10.415 min Scan# 949  
Delta R.T. 0.000 min  
Lab File: BN037145.D  
Acq: 03 Jun 2025 12:51

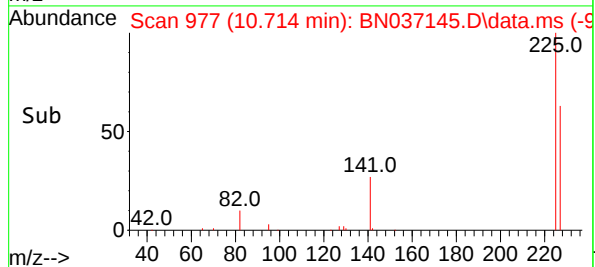
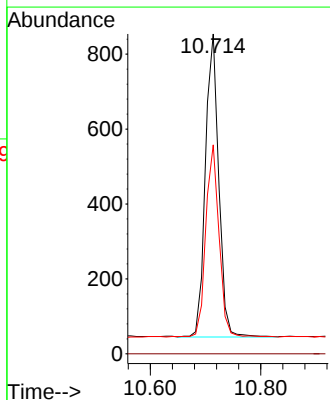
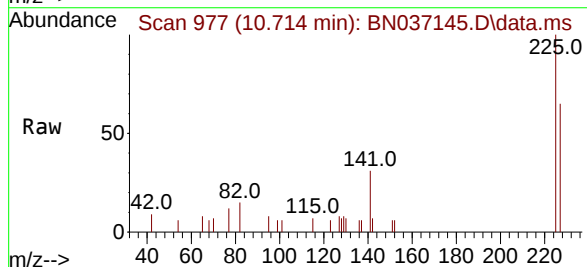
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICCC0.4

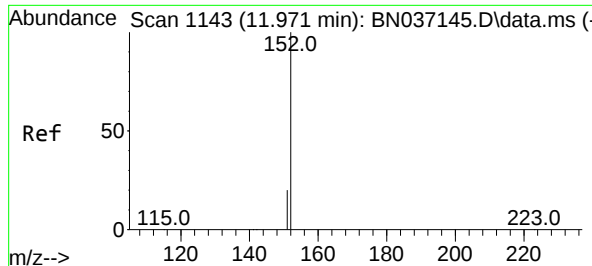
| Tgt Ion   | 128  | 129  | 127  |
|-----------|------|------|------|
| Resp:     | 5840 |      |      |
| Ion Ratio | 100  | 12.3 | 15.4 |
| Lower     |      | 9.8  | 12.3 |
| Upper     |      | 14.8 | 18.5 |



#10  
Hexachlorobutadiene  
Concen: 0.415 ng  
RT: 10.714 min Scan# 977  
Delta R.T. 0.000 min  
Lab File: BN037145.D  
Acq: 03 Jun 2025 12:51

| Tgt Ion   | 225  | 223 | 227  |
|-----------|------|-----|------|
| Resp:     | 1363 |     |      |
| Ion Ratio | 100  | 0.0 | 62.9 |
| Lower     |      | 0.0 | 50.3 |
| Upper     |      | 0.0 | 75.5 |

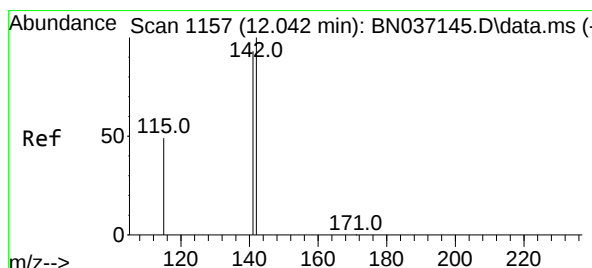
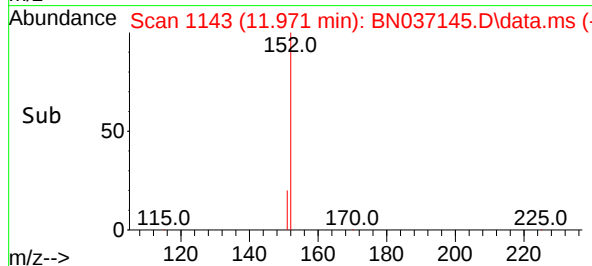
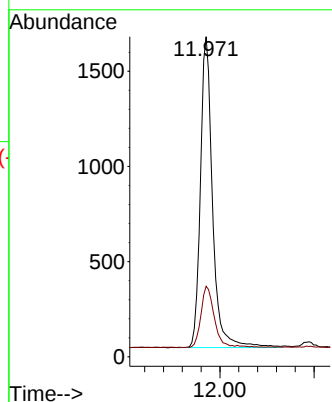
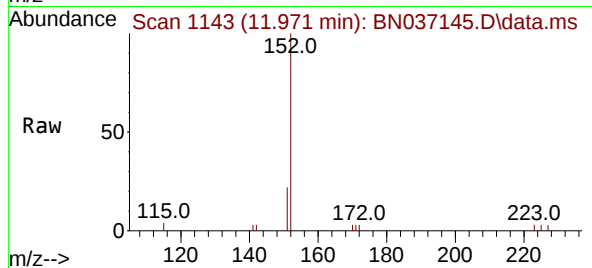




#11  
2-Methylnaphthalene-d10  
Concen: 0.404 ng  
RT: 11.971 min Scan# 1143  
Delta R.T. 0.000 min  
Lab File: BN037145.D  
Acq: 03 Jun 2025 12:51

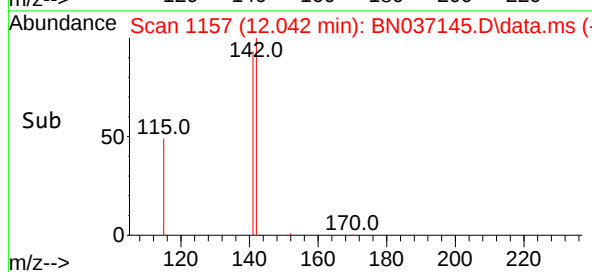
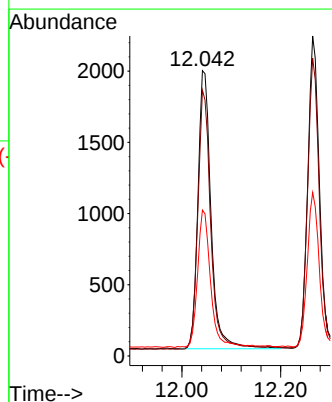
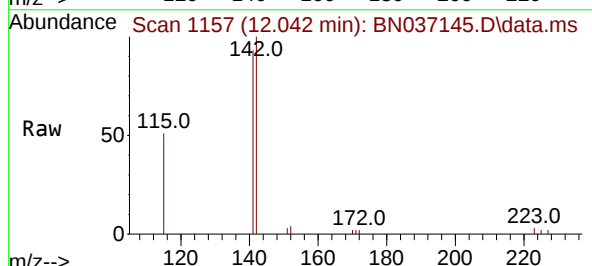
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICCC0.4

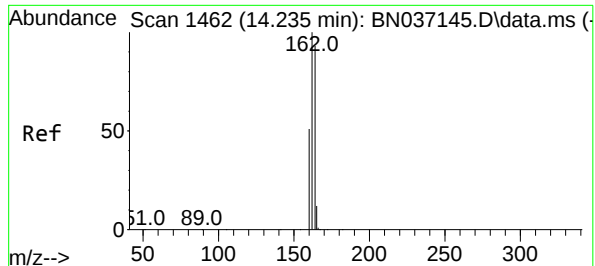
Tgt Ion:152 Resp: 2936  
Ion Ratio Lower Upper  
152 100  
151 21.4 17.1 25.7



#12  
2-Methylnaphthalene  
Concen: 0.374 ng  
RT: 12.042 min Scan# 1157  
Delta R.T. 0.000 min  
Lab File: BN037145.D  
Acq: 03 Jun 2025 12:51

Tgt Ion:142 Resp: 3609  
Ion Ratio Lower Upper  
142 100  
141 93.2 74.6 111.8  
115 51.2 41.0 61.4





#13

Acenaphthene-d10

Concen: 0.400 ng

RT: 14.235 min Scan# 1462

Delta R.T. 0.000 min

Lab File: BN037145.D

Acq: 03 Jun 2025 12:51

Instrument :

BNA\_N

ClientSampleId :

SSTDICCC0.4

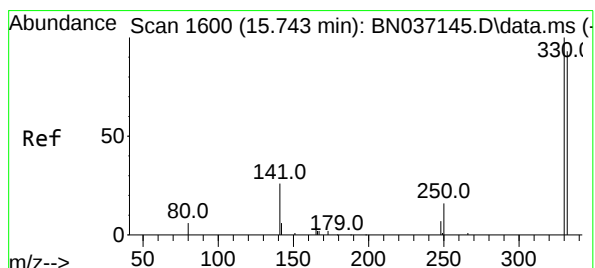
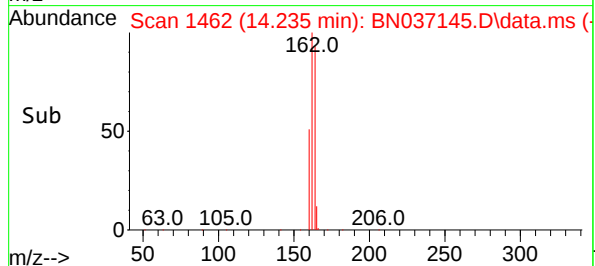
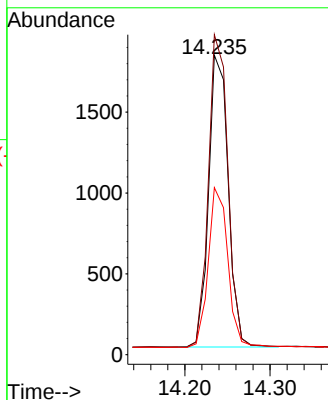
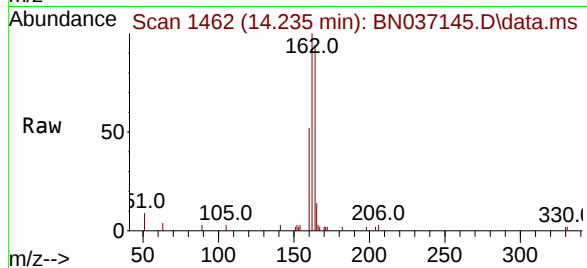
Tgt Ion:164 Resp: 2886

Ion Ratio Lower Upper

164 100

162 106.9 85.5 128.3

160 55.8 44.6 67.0



#14

2,4,6-Tribromophenol

Concen: 0.362 ng

RT: 15.743 min Scan# 1600

Delta R.T. 0.000 min

Lab File: BN037145.D

Acq: 03 Jun 2025 12:51

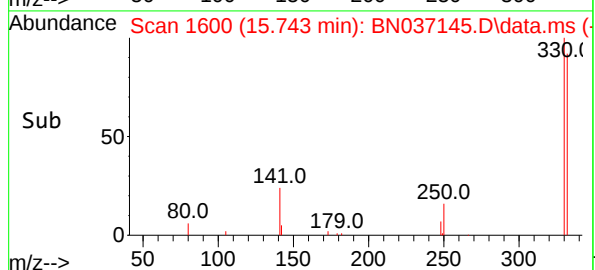
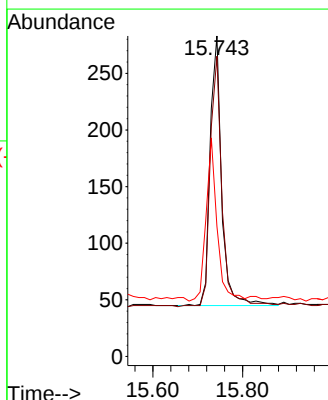
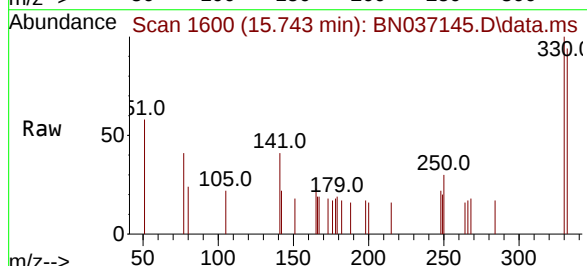
Tgt Ion:330 Resp: 421

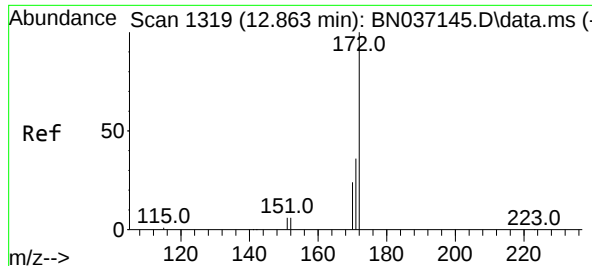
Ion Ratio Lower Upper

330 100

332 96.7 77.1 115.7

141 58.0 46.4 69.6

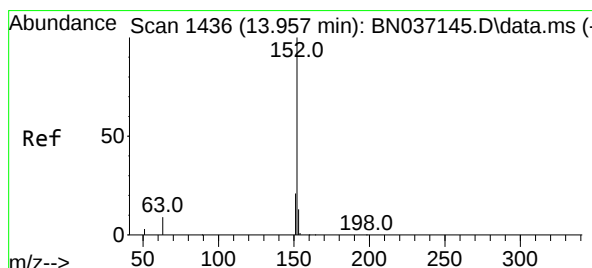
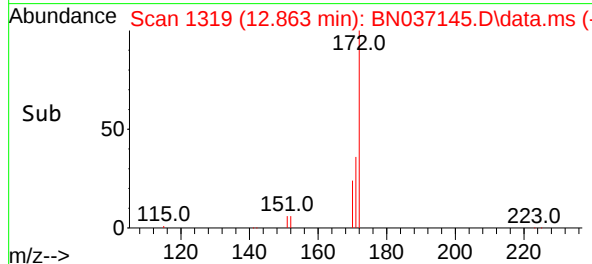
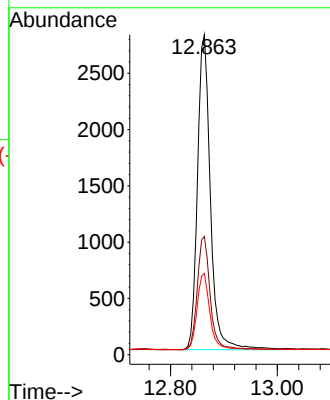
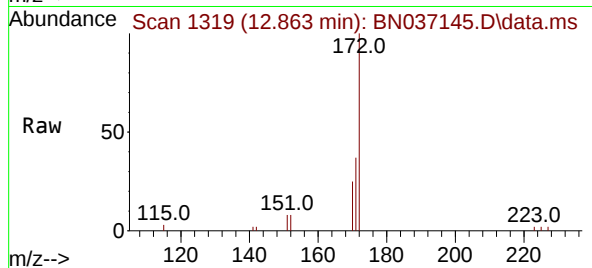




#15  
2-Fluorobiphenyl  
Concen: 0.381 ng  
RT: 12.863 min Scan# 1319  
Delta R.T. 0.000 min  
Lab File: BN037145.D  
Acq: 03 Jun 2025 12:51

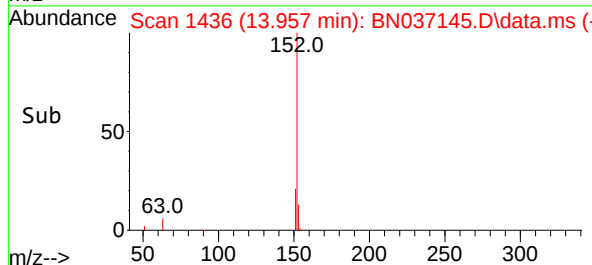
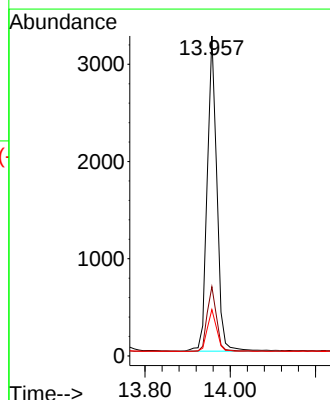
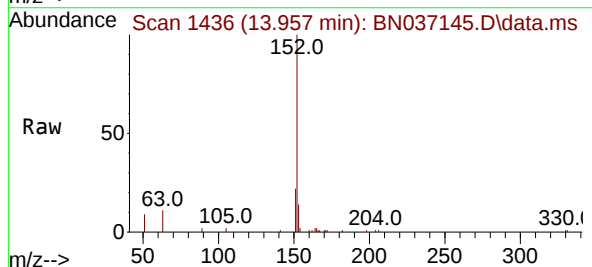
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICCC0.4

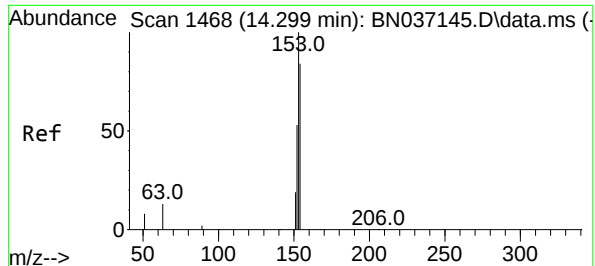
|           |       |       |      |
|-----------|-------|-------|------|
| Tgt Ion:  | 172   | Resp: | 4694 |
| Ion Ratio | Lower | Upper |      |
| 172       | 100   |       |      |
| 171       | 37.0  | 29.6  | 44.4 |
| 170       | 25.4  | 20.3  | 30.5 |



#16  
Acenaphthylene  
Concen: 0.361 ng  
RT: 13.957 min Scan# 1436  
Delta R.T. 0.000 min  
Lab File: BN037145.D  
Acq: 03 Jun 2025 12:51

|           |       |       |      |
|-----------|-------|-------|------|
| Tgt Ion:  | 152   | Resp: | 5103 |
| Ion Ratio | Lower | Upper |      |
| 152       | 100   |       |      |
| 151       | 20.4  | 16.3  | 24.5 |
| 153       | 13.2  | 10.6  | 15.8 |

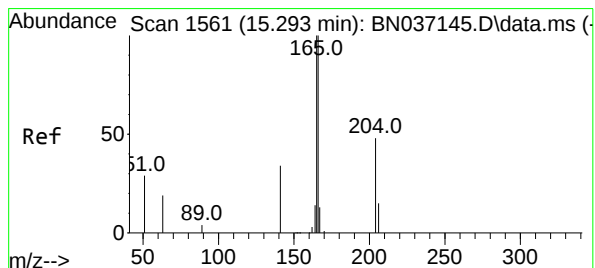
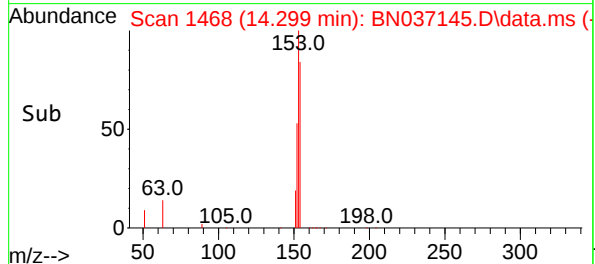
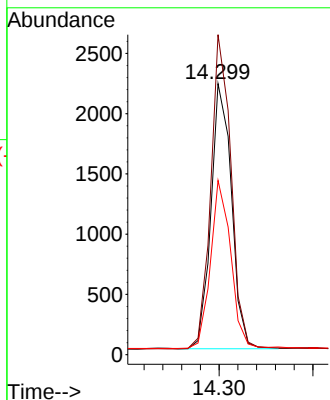
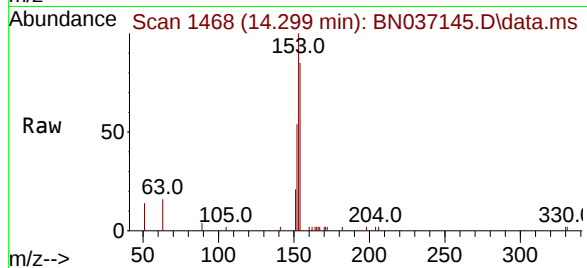




#17  
Acenaphthene  
Concen: 0.364 ng  
RT: 14.299 min Scan# 1468  
Delta R.T. 0.000 min  
Lab File: BN037145.D  
Acq: 03 Jun 2025 12:51

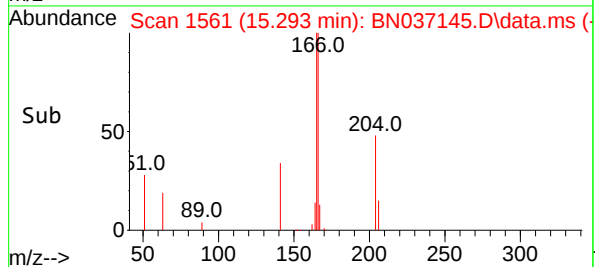
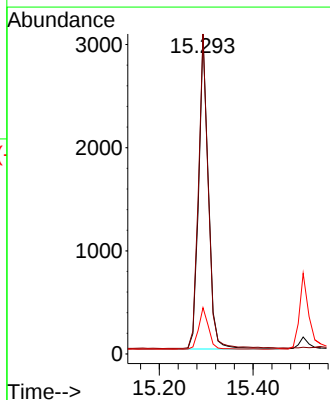
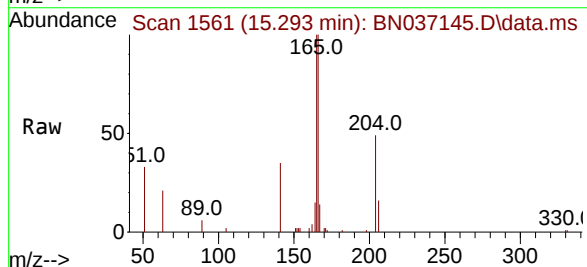
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICCC0.4

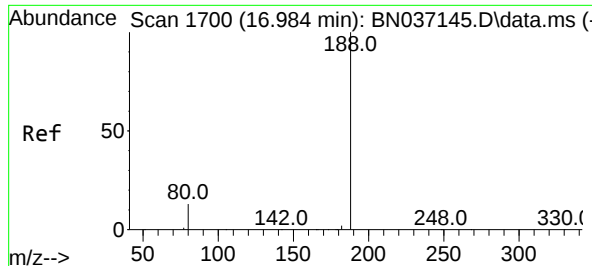
Tgt Ion:154 Resp: 3344  
Ion Ratio Lower Upper  
154 100  
153 117.3 93.8 140.8  
152 63.1 50.5 75.7



#18  
Fluorene  
Concen: 0.363 ng  
RT: 15.293 min Scan# 1561  
Delta R.T. 0.000 min  
Lab File: BN037145.D  
Acq: 03 Jun 2025 12:51

Tgt Ion:166 Resp: 4380  
Ion Ratio Lower Upper  
166 100  
165 101.4 81.1 121.7  
167 13.5 10.8 16.2





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 16.984 min Scan# 11

Delta R.T. 0.000 min

Lab File: BN037145.D

Acq: 03 Jun 2025 12:51

Instrument :

BNA\_N

ClientSampleId :

SSTDICCC0.4

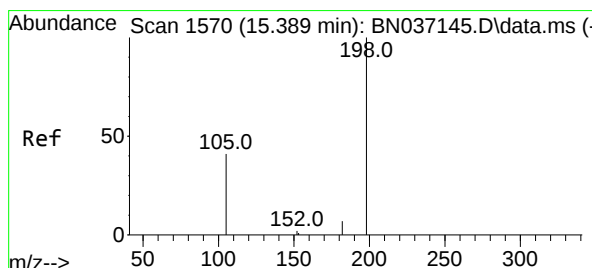
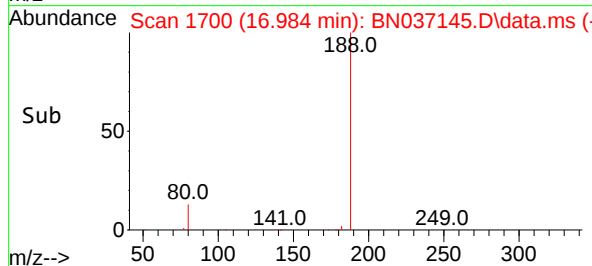
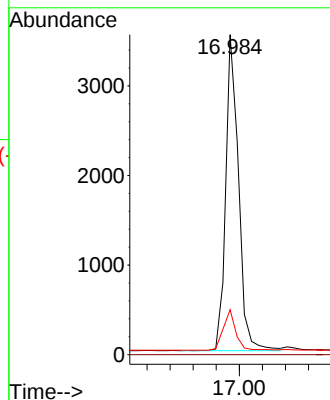
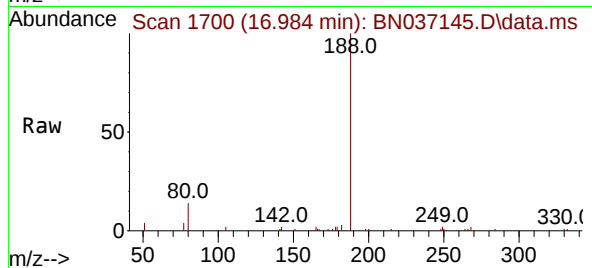
Tgt Ion:188 Resp: 5446

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 14.1 11.3 16.9



#20

4,6-Dinitro-2-methylphenol

Concen: 0.445 ng

RT: 15.389 min Scan# 1570

Delta R.T. 0.000 min

Lab File: BN037145.D

Acq: 03 Jun 2025 12:51

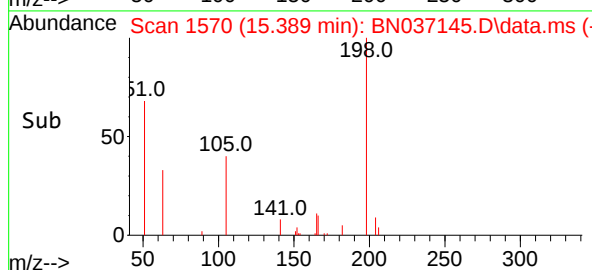
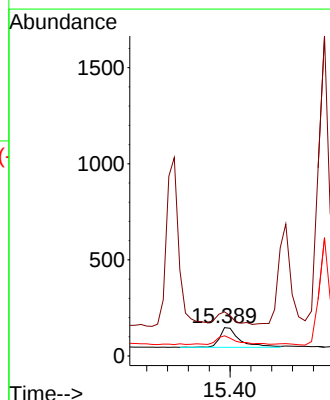
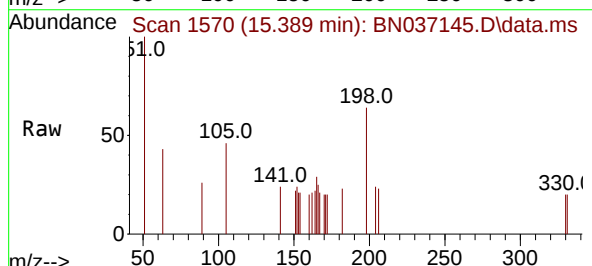
Tgt Ion:198 Resp: 272

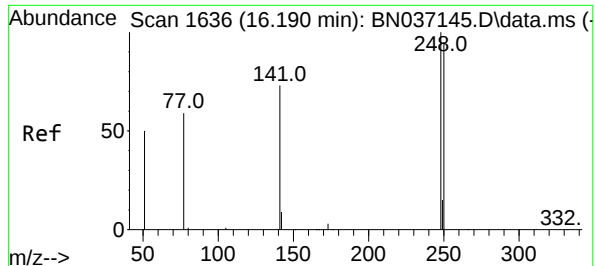
Ion Ratio Lower Upper

198 100

51 156.5 125.2 187.8

105 71.4 57.1 85.7

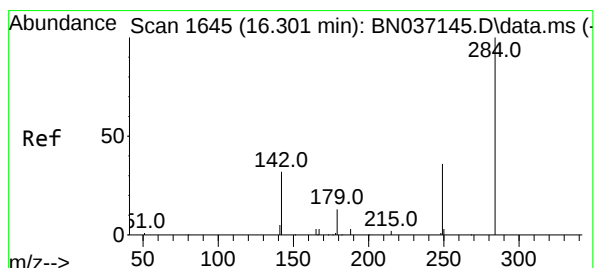
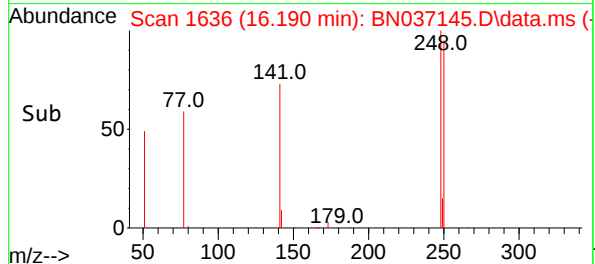
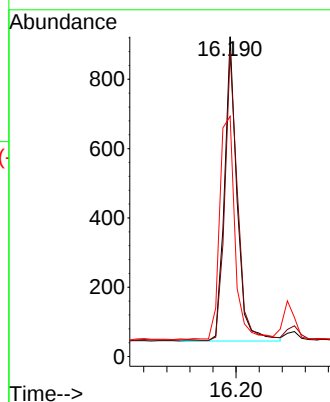
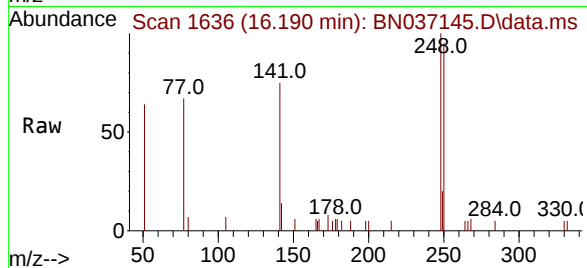




#21  
4-Bromophenyl-phenylether  
Concen: 0.372 ng  
RT: 16.190 min Scan# 1636  
Delta R.T. 0.000 min  
Lab File: BN037145.D  
Acq: 03 Jun 2025 12:51

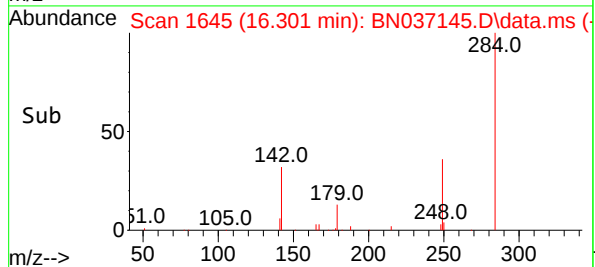
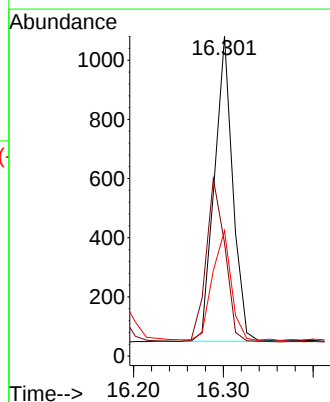
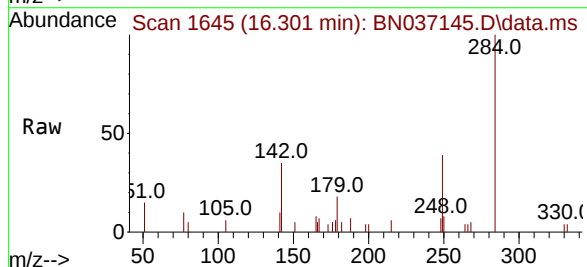
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICCC0.4

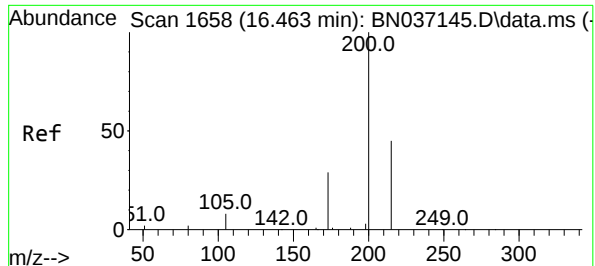
Tgt Ion:248 Resp: 1329  
Ion Ratio Lower Upper  
248 100  
250 95.1 76.1 114.1  
141 75.1 60.1 90.1



#22  
Hexachlorobenzene  
Concen: 0.380 ng  
RT: 16.301 min Scan# 1645  
Delta R.T. 0.000 min  
Lab File: BN037145.D  
Acq: 03 Jun 2025 12:51

Tgt Ion:284 Resp: 1463  
Ion Ratio Lower Upper  
284 100  
142 55.0 44.0 66.0  
249 37.1 29.7 44.5

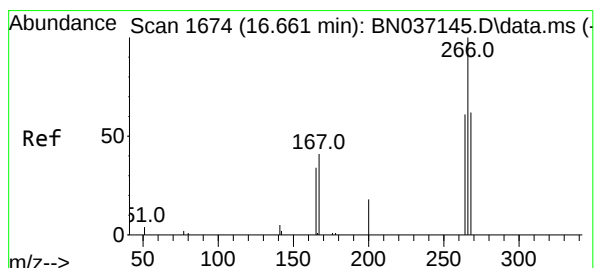
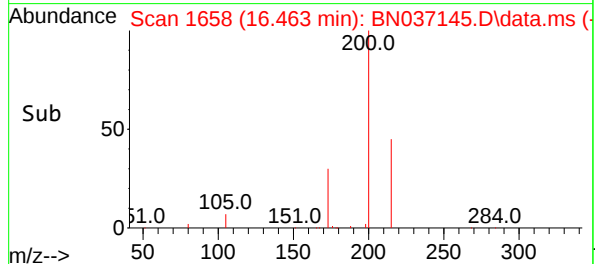
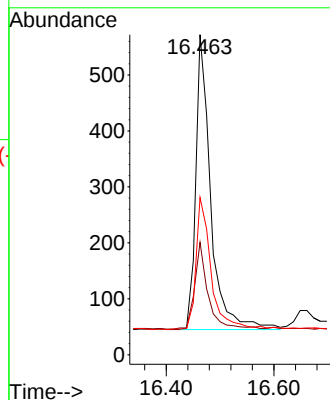
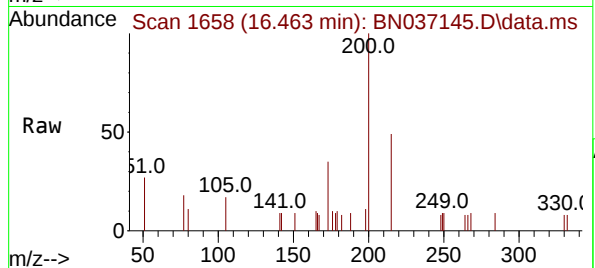




#23  
Atrazine  
Concen: 0.345 ng  
RT: 16.463 min Scan# 1658  
Delta R.T. 0.000 min  
Lab File: BN037145.D  
Acq: 03 Jun 2025 12:51

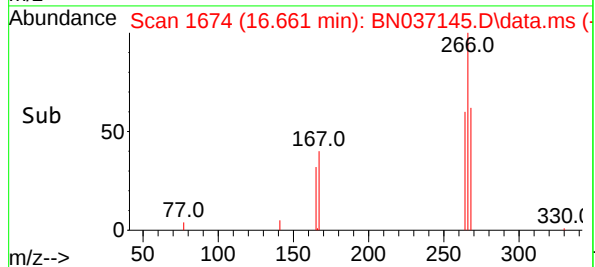
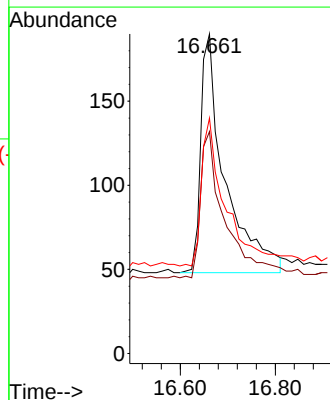
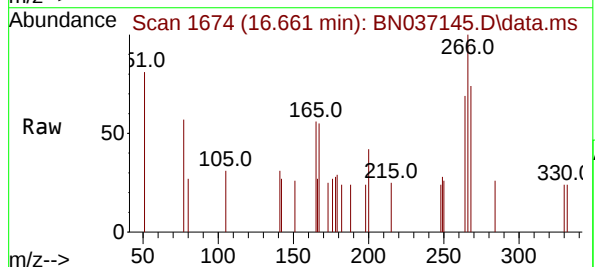
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICCC0.4

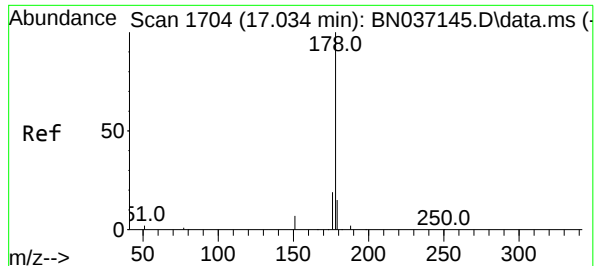
Tgt Ion:200 Resp: 1018  
Ion Ratio Lower Upper  
200 100  
173 35.1 28.1 42.1  
215 49.1 39.3 58.9



#24  
Pentachlorophenol  
Concen: 0.433 ng  
RT: 16.661 min Scan# 1674  
Delta R.T. 0.000 min  
Lab File: BN037145.D  
Acq: 03 Jun 2025 12:51

Tgt Ion:266 Resp: 502  
Ion Ratio Lower Upper  
266 100  
264 61.8 49.3 73.9  
268 61.4 49.0 73.4

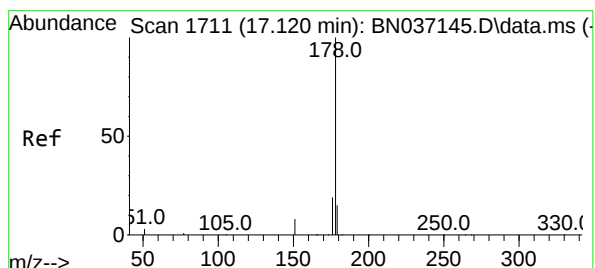
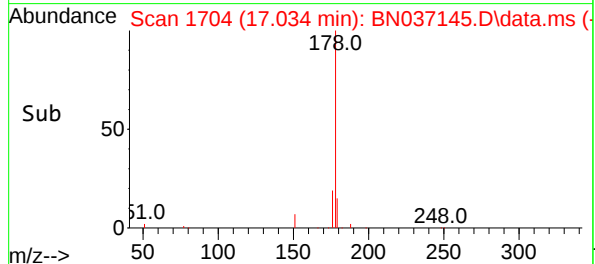
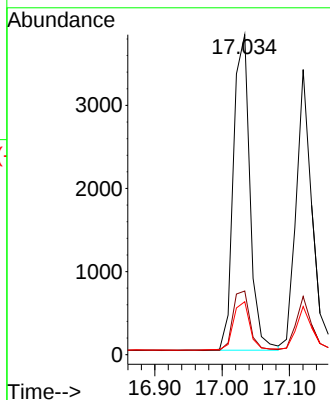
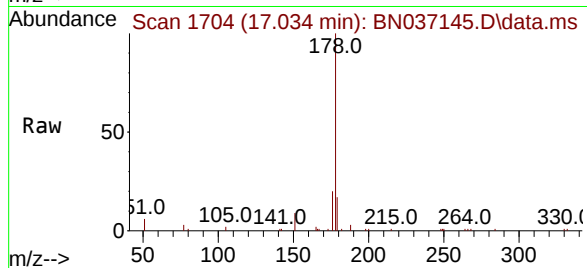




#25  
Phenanthrene  
Concen: 0.368 ng  
RT: 17.034 min Scan# 1704  
Delta R.T. 0.000 min  
Lab File: BN037145.D  
Acq: 03 Jun 2025 12:51

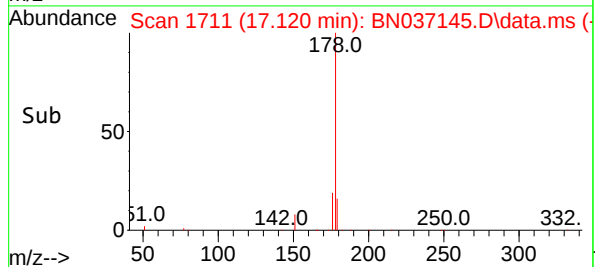
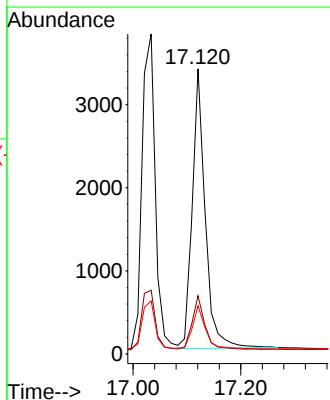
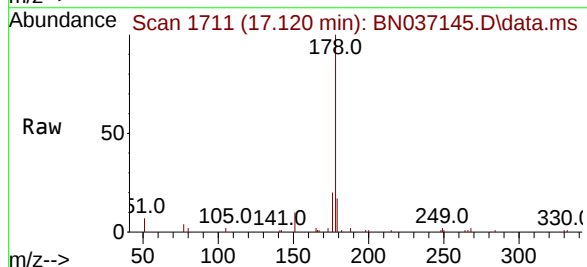
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICCC0.4

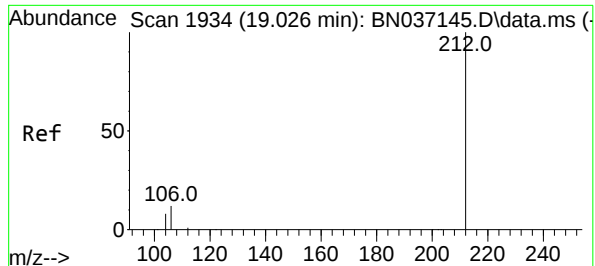
Tgt Ion:178 Resp: 6496  
Ion Ratio Lower Upper  
178 100  
176 19.6 15.7 23.5  
179 15.4 12.3 18.5



#26  
Anthracene  
Concen: 0.351 ng  
RT: 17.120 min Scan# 1711  
Delta R.T. 0.000 min  
Lab File: BN037145.D  
Acq: 03 Jun 2025 12:51

Tgt Ion:178 Resp: 5644  
Ion Ratio Lower Upper  
178 100  
176 19.0 15.2 22.8  
179 16.1 12.9 19.3





#27

Fluoranthene-d10

Concen: 0.384 ng

RT: 19.026 min Scan# 1934

Delta R.T. 0.000 min

Lab File: BN037145.D

Acq: 03 Jun 2025 12:51

Instrument :

BNA\_N

ClientSampleId :

SSTDICCC0.4

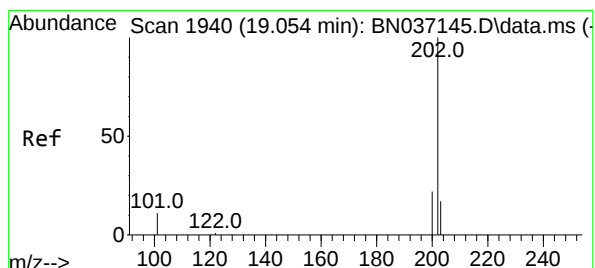
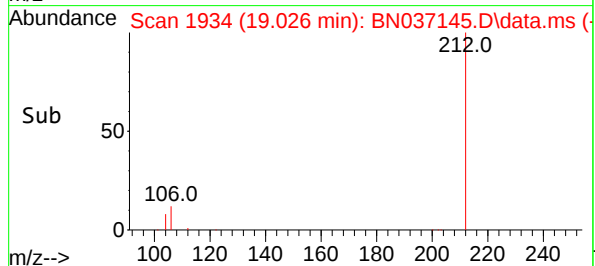
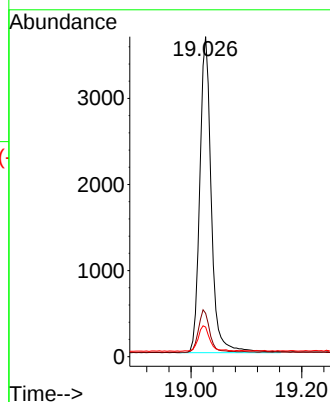
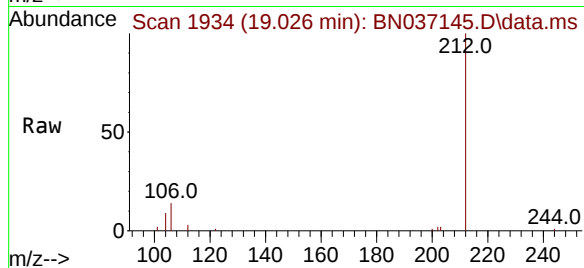
Tgt Ion:212 Resp: 5309

Ion Ratio Lower Upper

212 100

106 13.2 10.6 15.8

104 8.2 6.6 9.8



#28

Fluoranthene

Concen: 0.357 ng

RT: 19.054 min Scan# 1940

Delta R.T. 0.000 min

Lab File: BN037145.D

Acq: 03 Jun 2025 12:51

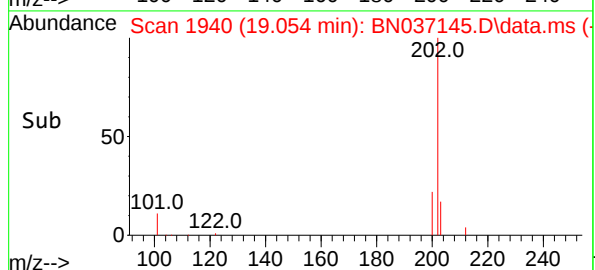
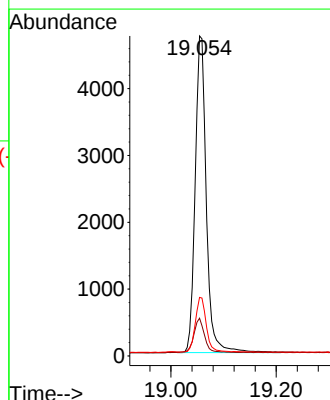
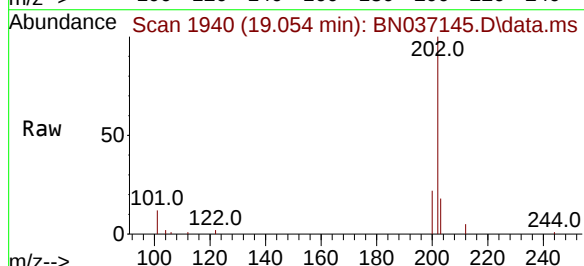
Tgt Ion:202 Resp: 6952

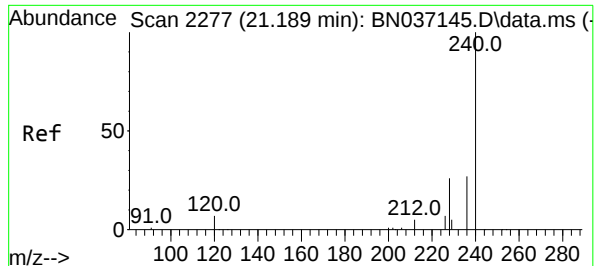
Ion Ratio Lower Upper

202 100

101 10.9 8.7 13.1

203 16.9 13.5 20.3





#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.189 min Scan# 21

Delta R.T. 0.000 min

Lab File: BN037145.D

Acq: 03 Jun 2025 12:51

Instrument :

BNA\_N

ClientSampleId :

SSTDICCC0.4

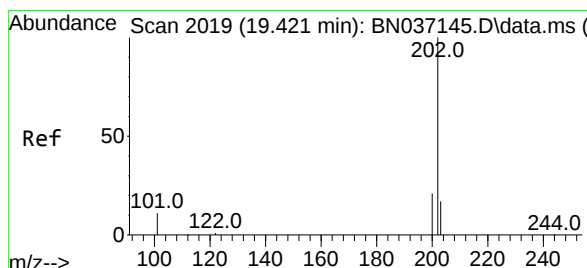
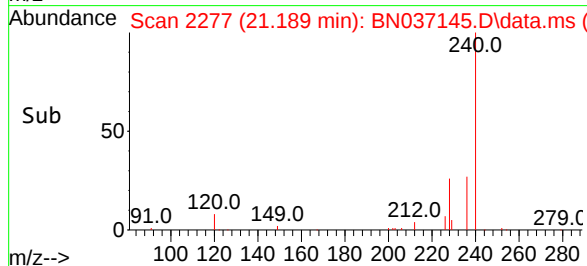
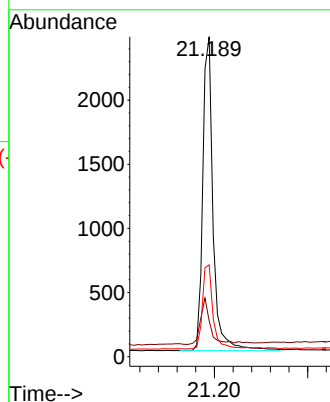
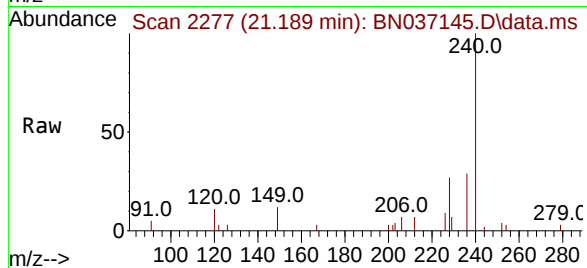
Tgt Ion:240 Resp: 3769

Ion Ratio Lower Upper

240 100

120 11.2 9.0 13.4

236 28.7 23.0 34.4



#30

Pyrene

Concen: 0.374 ng

RT: 19.421 min Scan# 2019

Delta R.T. 0.000 min

Lab File: BN037145.D

Acq: 03 Jun 2025 12:51

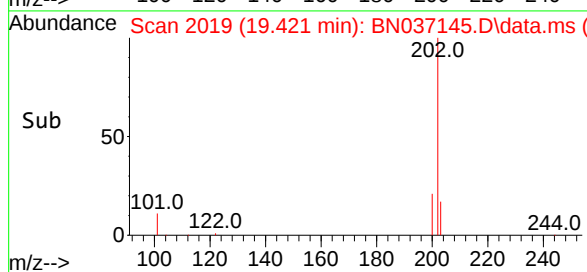
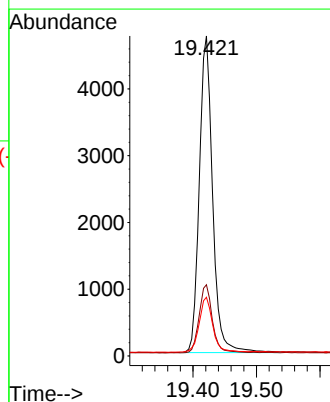
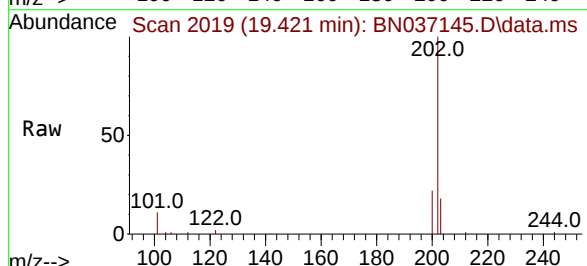
Tgt Ion:202 Resp: 6885

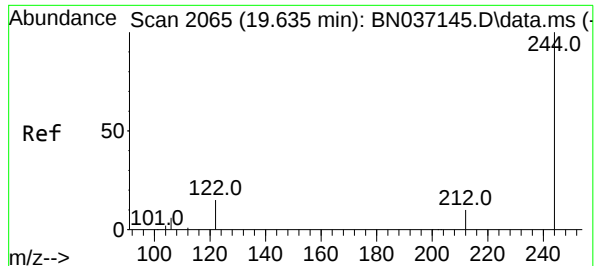
Ion Ratio Lower Upper

202 100

200 21.3 17.0 25.6

203 17.8 14.2 21.4

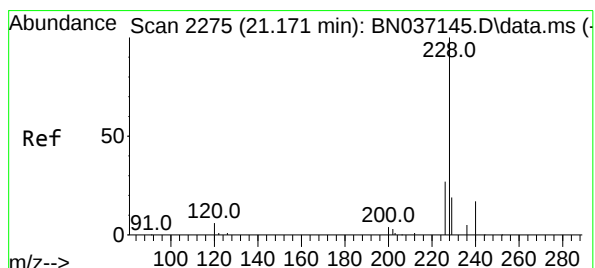
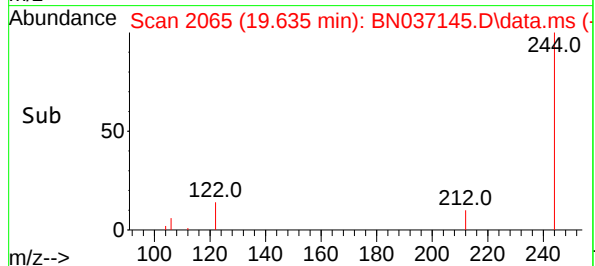
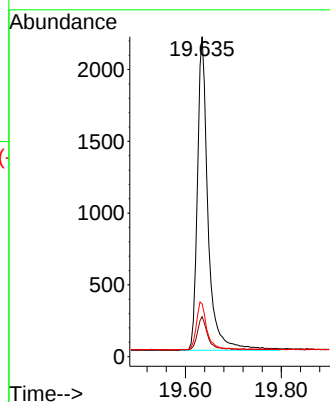
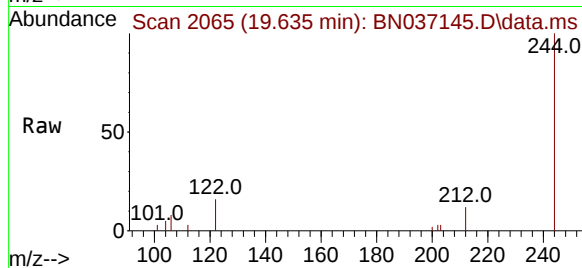




#31  
Terphenyl-d14  
Concen: 0.381 ng  
RT: 19.635 min Scan# 2065  
Delta R.T. 0.000 min  
Lab File: BN037145.D  
Acq: 03 Jun 2025 12:51

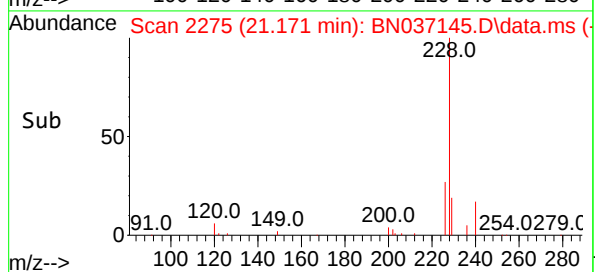
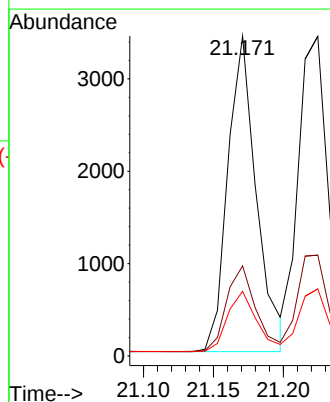
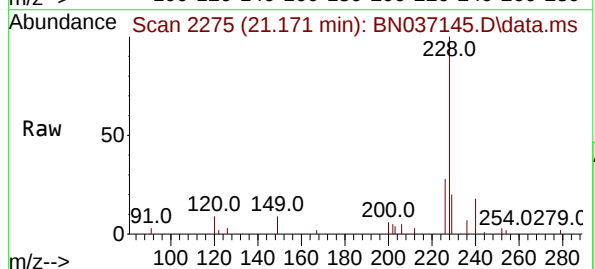
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICCC0.4

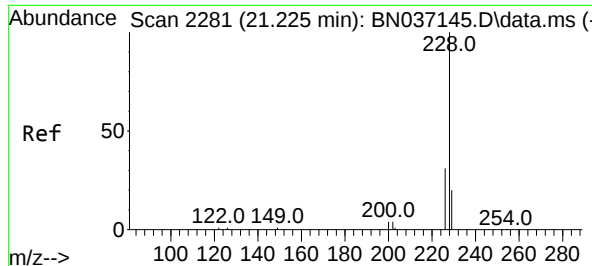
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 244     | 100   |       |       |
| 212     | 12.5  | 10.0  | 15.0  |
| 122     | 16.5  | 13.2  | 19.8  |



#32  
Benzo(a)anthracene  
Concen: 0.357 ng  
RT: 21.171 min Scan# 2275  
Delta R.T. 0.000 min  
Lab File: BN037145.D  
Acq: 03 Jun 2025 12:51

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 228     | 100   |       |       |
| 226     | 28.2  | 22.6  | 33.8  |
| 229     | 20.2  | 16.2  | 24.2  |





#33

Chrysene

Concen: 0.366 ng

RT: 21.225 min Scan# 21

Delta R.T. 0.000 min

Lab File: BN037145.D

Acq: 03 Jun 2025 12:51

Instrument :

BNA\_N

ClientSampleId :

SSTDICCC0.4

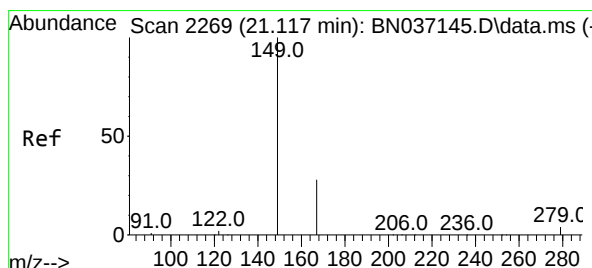
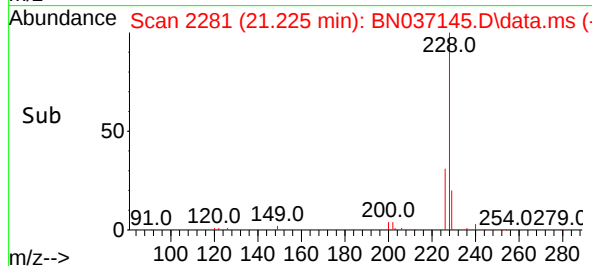
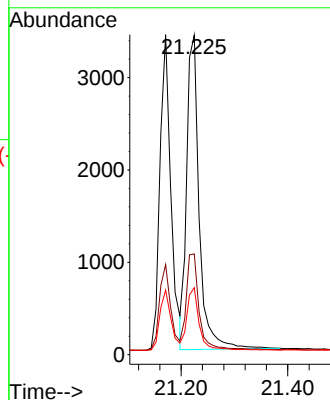
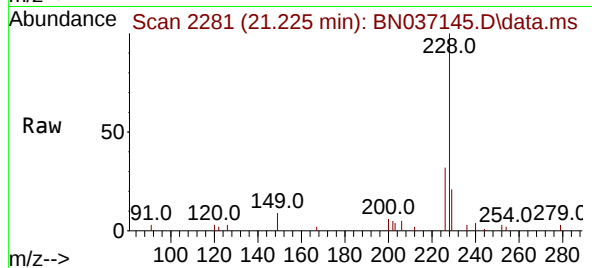
Tgt Ion:228 Resp: 5553

Ion Ratio Lower Upper

228 100

226 31.5 25.2 37.8

229 21.0 16.8 25.2



#34

Bis(2-ethylhexyl)phthalate

Concen: 0.339 ng

RT: 21.117 min Scan# 2269

Delta R.T. 0.000 min

Lab File: BN037145.D

Acq: 03 Jun 2025 12:51

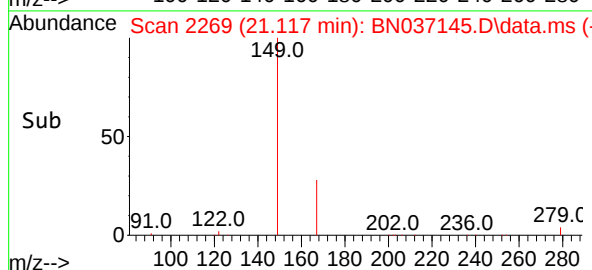
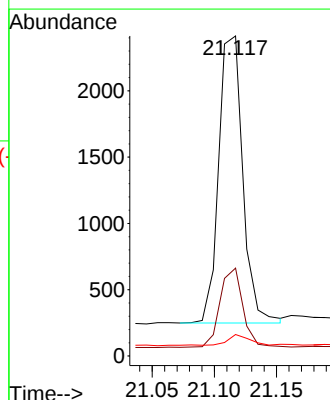
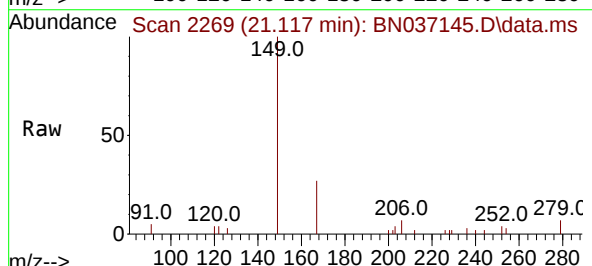
Tgt Ion:149 Resp: 2918

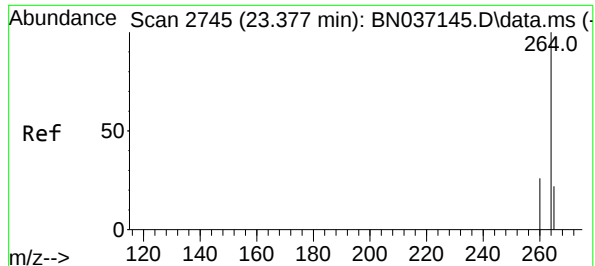
Ion Ratio Lower Upper

149 100

167 26.2 21.0 31.4

279 3.6 2.9 4.3





#35

Perylene-d12

Concen: 0.400 ng

RT: 23.377 min Scan# 21

Delta R.T. 0.000 min

Lab File: BN037145.D

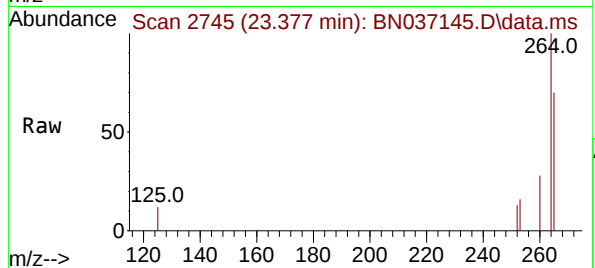
Acq: 03 Jun 2025 12:51

Instrument :

BNA\_N

ClientSampleId :

SSTDICCC0.4



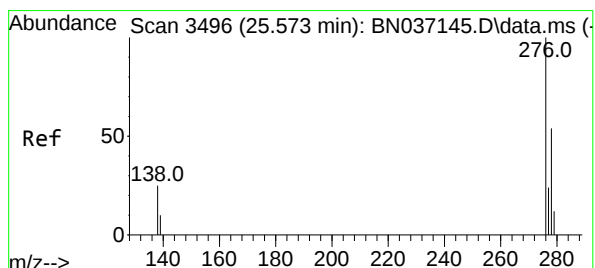
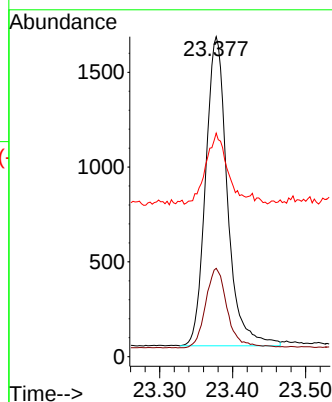
Tgt Ion:264 Resp: 3386

Ion Ratio Lower Upper

264 100

260 27.6 22.1 33.1

265 69.8 55.8 83.8



#36

Indeno(1,2,3-cd)pyrene

Concen: 0.377 ng

RT: 25.573 min Scan# 3496

Delta R.T. 0.000 min

Lab File: BN037145.D

Acq: 03 Jun 2025 12:51

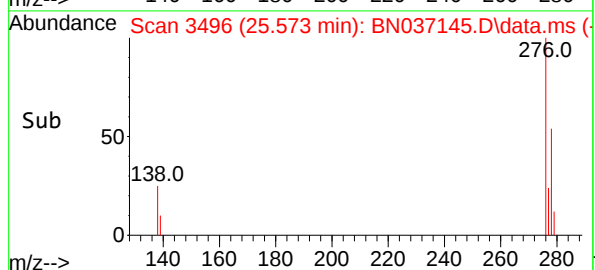
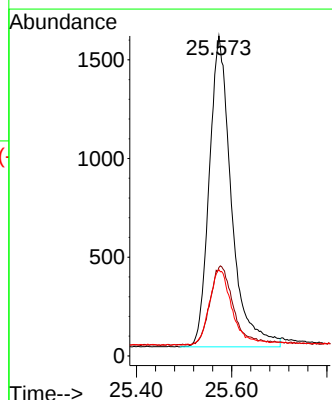
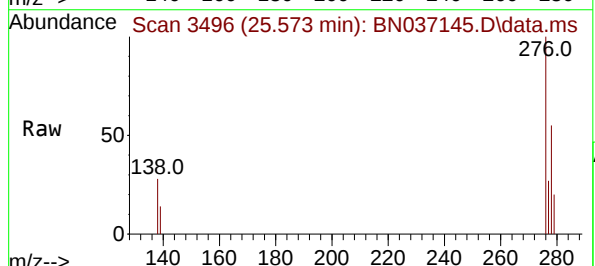
Tgt Ion:276 Resp: 5083

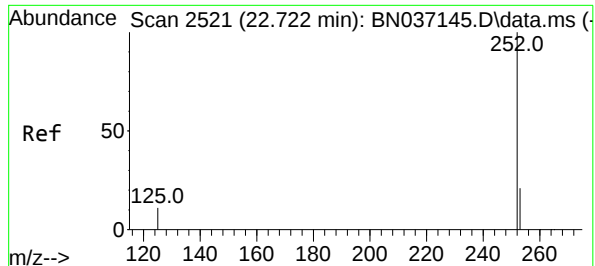
Ion Ratio Lower Upper

276 100

138 26.3 21.0 31.6

277 24.3 19.4 29.2





#37

Benzo(b)fluoranthene

Concen: 0.352 ng

RT: 22.722 min Scan# 2521

Delta R.T. 0.000 min

Lab File: BN037145.D

Acq: 03 Jun 2025 12:51

Instrument :

BNA\_N

ClientSampleId :

SSTDICCC0.4

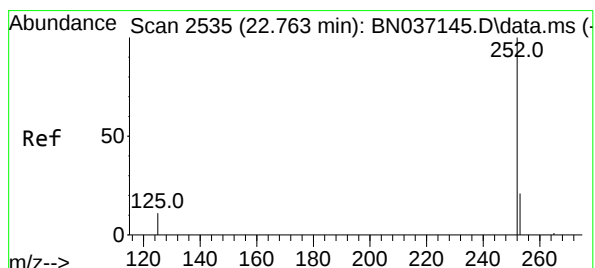
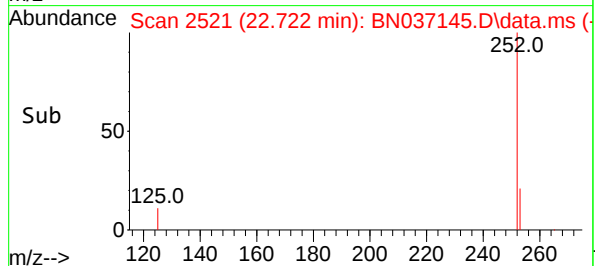
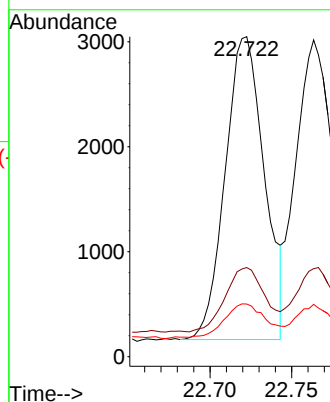
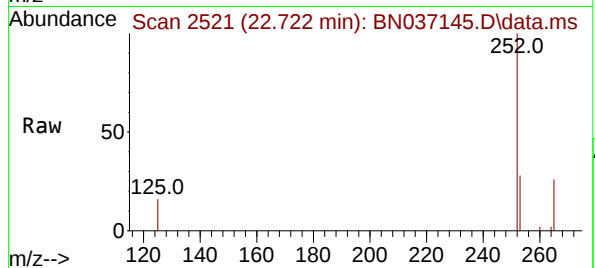
Tgt Ion:252 Resp: 4811

Ion Ratio Lower Upper

252 100

253 27.9 22.3 33.5

125 16.5 13.2 19.8



#38

Benzo(k)fluoranthene

Concen: 0.354 ng

RT: 22.763 min Scan# 2535

Delta R.T. 0.000 min

Lab File: BN037145.D

Acq: 03 Jun 2025 12:51

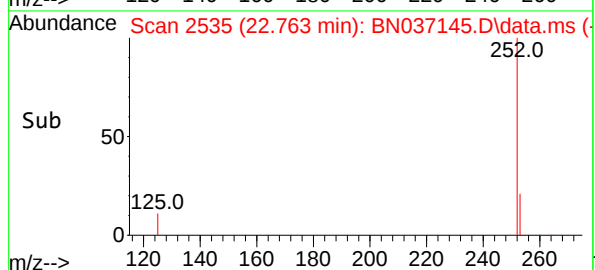
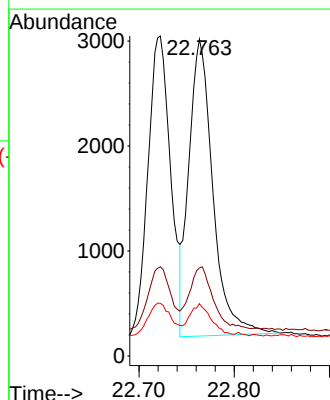
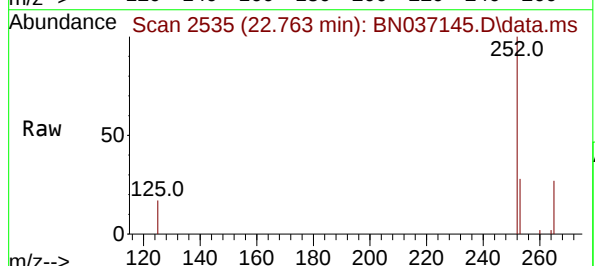
Tgt Ion:252 Resp: 4946

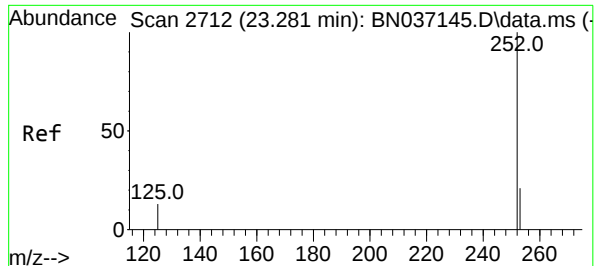
Ion Ratio Lower Upper

252 100

253 27.8 22.2 33.4

125 16.5 13.2 19.8





#39

Benzo(a)pyrene

Concen: 0.360 ng

RT: 23.281 min Scan# 2712

Delta R.T. 0.000 min

Lab File: BN037145.D

Acq: 03 Jun 2025 12:51

Instrument :

BNA\_N

ClientSampleId :

SSTDICCC0.4

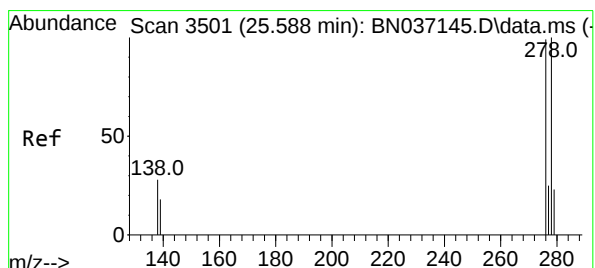
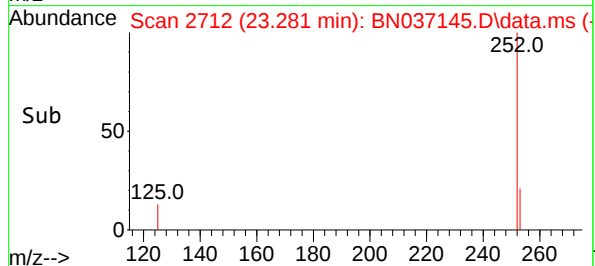
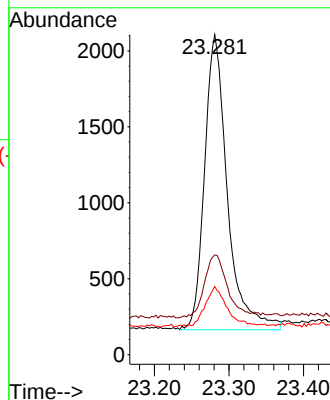
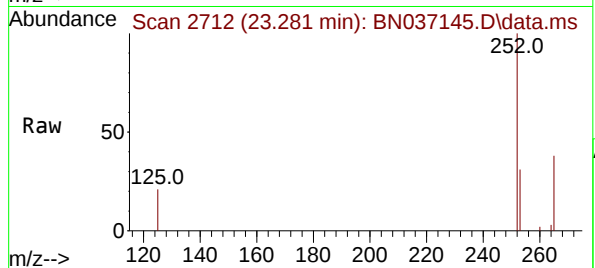
Tgt Ion:252 Resp: 4127

Ion Ratio Lower Upper

252 100

253 31.2 25.0 37.4

125 21.3 17.0 25.6



#40

Dibenzo(a,h)anthracene

Concen: 0.378 ng

RT: 25.588 min Scan# 3501

Delta R.T. 0.000 min

Lab File: BN037145.D

Acq: 03 Jun 2025 12:51

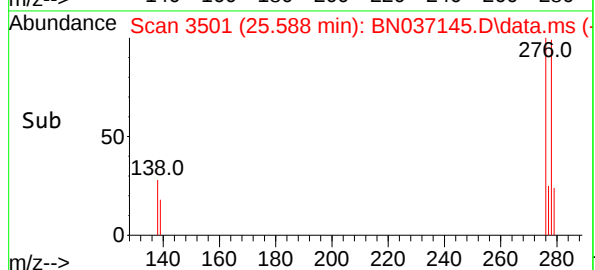
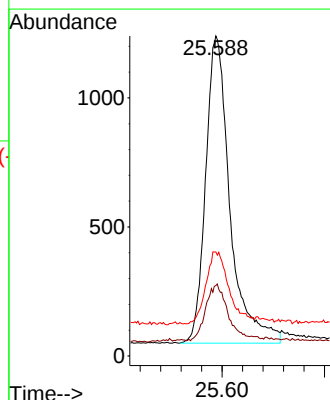
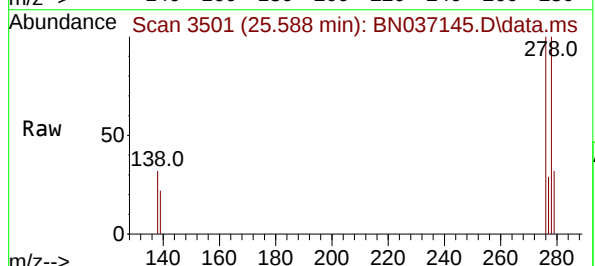
Tgt Ion:278 Resp: 3928

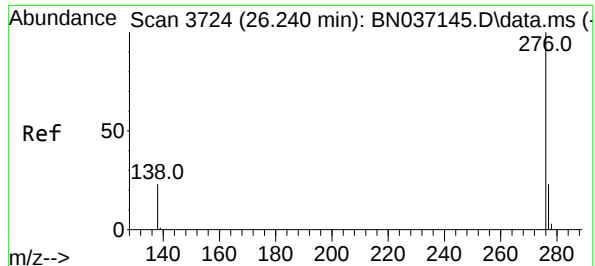
Ion Ratio Lower Upper

278 100

139 22.0 17.6 26.4

279 32.5 26.0 39.0





#41

Benzo(g,h,i)perylene

Concen: 0.383 ng

RT: 26.240 min Scan# 31

Delta R.T. 0.000 min

Lab File: BN037145.D

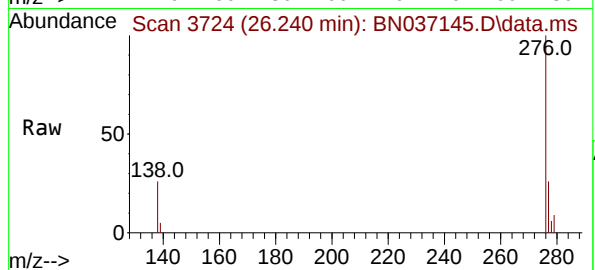
Acq: 03 Jun 2025 12:51

Instrument :

BNA\_N

ClientSampleId :

SSTDICCC0.4



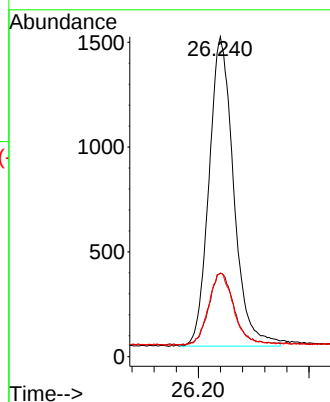
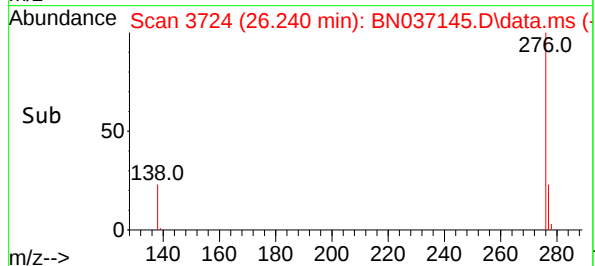
Tgt Ion:276 Resp: 4576

Ion Ratio Lower Upper

276 100

277 26.1 20.9 31.3

138 26.0 20.8 31.2



Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN060325\  
 Data File : BN037146.D  
 Acq On : 03 Jun 2025 13:26  
 Operator : RC/JU  
 Sample : SSTDICC0.8  
 Misc :  
 ALS Vial : 5 Sample Multiplier: 1

Instrument :  
 BNA\_N  
 ClientSampleId :  
 SSTDICC0.8

Quant Time: Jun 04 01:42:31 2025  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\8270-SIM-BN060325.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Wed Jun 04 01:40:18 2025  
 Response via : Initial Calibration

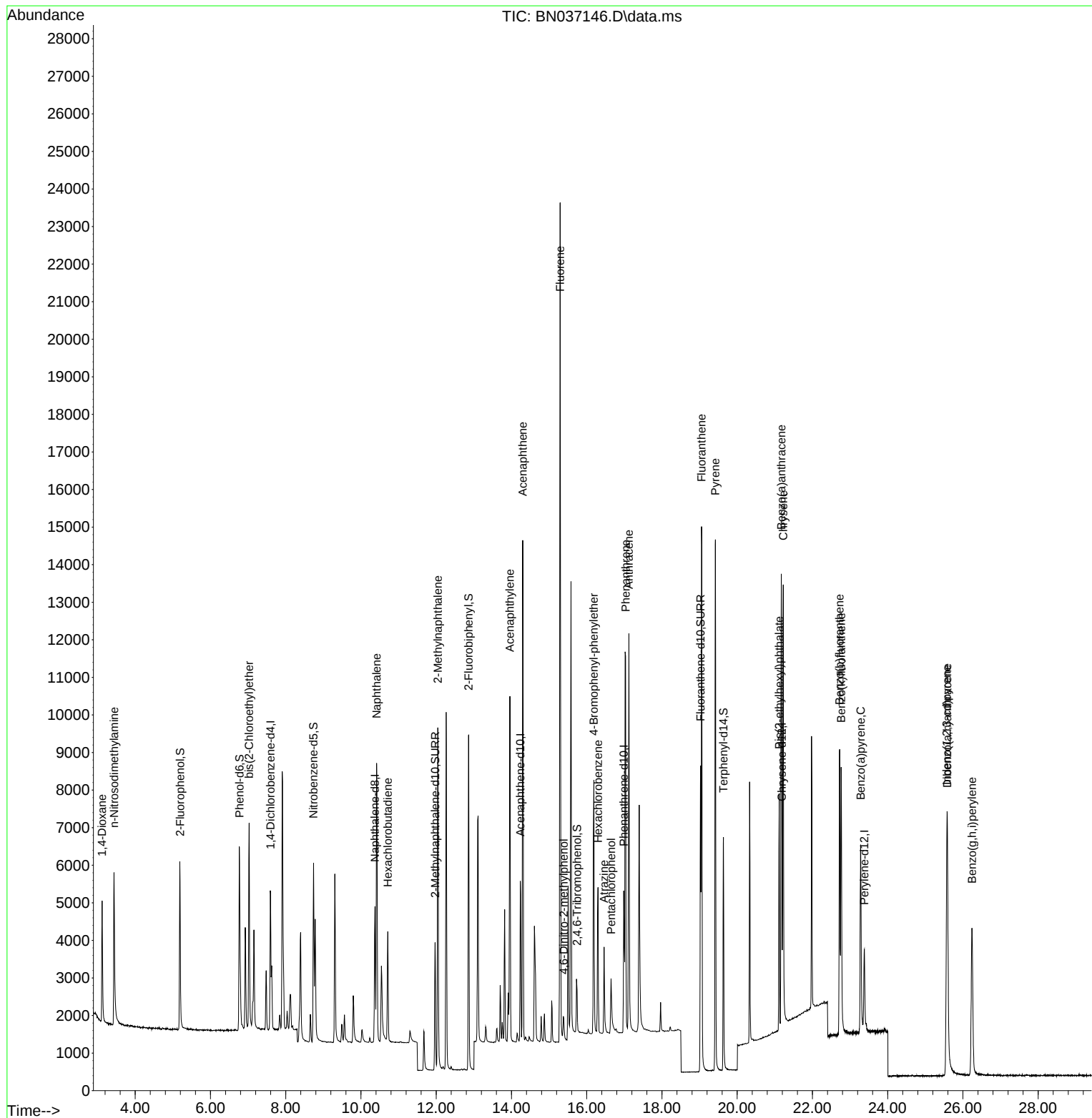
| Compound                      | R.T.   | QIon | Response | Conc  | Units | Dev(Min) |
|-------------------------------|--------|------|----------|-------|-------|----------|
| Internal Standards            |        |      |          |       |       |          |
| 1) 1,4-Dichlorobenzene-d4     | 7.597  | 152  | 1776     | 0.400 | ng    | 0.00     |
| 7) Naphthalene-d8             | 10.372 | 136  | 4485     | 0.400 | ng    | 0.00     |
| 13) Acenaphthene-d10          | 14.234 | 164  | 2508     | 0.400 | ng    | 0.00     |
| 19) Phenanthrene-d10          | 16.984 | 188  | 4816     | 0.400 | ng    | 0.00     |
| 29) Chrysene-d12              | 21.189 | 240  | 3381     | 0.400 | ng    | 0.00     |
| 35) Perylene-d12              | 23.380 | 264  | 2909     | 0.400 | ng    | 0.00     |
| System Monitoring Compounds   |        |      |          |       |       |          |
| 4) 2-Fluorophenol             | 5.192  | 112  | 3356     | 0.764 | ng    | 0.00     |
| 5) Phenol-d6                  | 6.773  | 99   | 4000     | 0.751 | ng    | 0.00     |
| 8) Nitrobenzene-d5            | 8.739  | 82   | 3647     | 0.771 | ng    | 0.00     |
| 11) 2-Methylnaphthalene-d10   | 11.971 | 152  | 4809     | 0.770 | ng    | 0.00     |
| 14) 2,4,6-Tribromophenol      | 15.743 | 330  | 789      | 0.781 | ng    | 0.00     |
| 15) 2-Fluorobiphenyl          | 12.863 | 172  | 8296     | 0.776 | ng    | 0.00     |
| 27) Fluoranthene-d10          | 19.026 | 212  | 9209     | 0.753 | ng    | 0.00     |
| 31) Terphenyl-d14             | 19.635 | 244  | 6364     | 0.800 | ng    | 0.00     |
| Target Compounds              |        |      |          |       |       |          |
| 2) 1,4-Dioxane                | 3.119  | 88   | 1799     | 0.760 | ng    | 97       |
| 3) n-Nitrosodimethylamine     | 3.437  | 42   | 3791     | 0.798 | ng    | # 97     |
| 6) bis(2-Chloroethyl)ether    | 7.026  | 93   | 3867     | 0.761 | ng    | 98       |
| 9) Naphthalene                | 10.415 | 128  | 9964     | 0.770 | ng    | 99       |
| 10) Hexachlorobutadiene       | 10.714 | 225  | 2212     | 0.785 | ng    | # 99     |
| 12) 2-Methylnaphthalene       | 12.041 | 142  | 6445     | 0.777 | ng    | 99       |
| 16) Acenaphthylene            | 13.957 | 152  | 9385     | 0.763 | ng    | 99       |
| 17) Acenaphthene              | 14.299 | 154  | 6080     | 0.762 | ng    | 100      |
| 18) Fluorene                  | 15.293 | 166  | 8080     | 0.770 | ng    | 99       |
| 20) 4,6-Dinitro-2-methylph... | 15.389 | 198  | 643      | 0.730 | ng    | # 56     |
| 21) 4-Bromophenyl-phenylether | 16.189 | 248  | 2446     | 0.775 | ng    | 97       |
| 22) Hexachlorobenzene         | 16.301 | 284  | 2690     | 0.790 | ng    | 98       |
| 23) Atrazine                  | 16.462 | 200  | 2011     | 0.772 | ng    | 92       |
| 24) Pentachlorophenol         | 16.649 | 266  | 1033     | 0.722 | ng    | 96       |
| 25) Phenanthrene              | 17.033 | 178  | 12021    | 0.770 | ng    | 100      |
| 26) Anthracene                | 17.120 | 178  | 11005    | 0.773 | ng    | 99       |
| 28) Fluoranthene              | 19.054 | 202  | 13144    | 0.763 | ng    | 100      |
| 30) Pyrene                    | 19.421 | 202  | 13035    | 0.790 | ng    | 99       |
| 32) Benzo(a)anthracene        | 21.171 | 228  | 9494     | 0.776 | ng    | 100      |
| 33) Chrysene                  | 21.224 | 228  | 10700    | 0.785 | ng    | 98       |
| 34) Bis(2-ethylhexyl)phtha... | 21.117 | 149  | 5801     | 0.751 | ng    | 100      |
| 36) Indeno(1,2,3-cd)pyrene    | 25.573 | 276  | 8881     | 0.767 | ng    | 99       |
| 37) Benzo(b)fluoranthene      | 22.722 | 252  | 9165     | 0.780 | ng    | 95       |
| 38) Benzo(k)fluoranthene      | 22.763 | 252  | 9379     | 0.782 | ng    | 93       |
| 39) Benzo(a)pyrene            | 23.281 | 252  | 7528     | 0.765 | ng    | # 91     |
| 40) Dibenzo(a,h)anthracene    | 25.588 | 278  | 6960     | 0.780 | ng    | 93       |
| 41) Benzo(g,h,i)perylene      | 26.240 | 276  | 7980     | 0.778 | ng    | 99       |

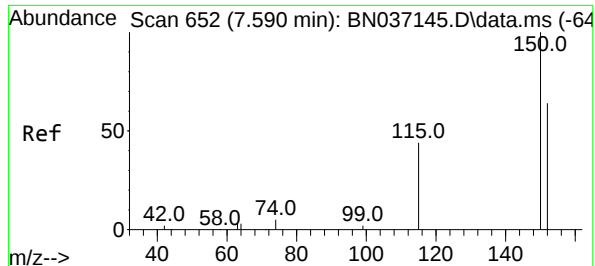
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN060325\  
Data File : BN037146.D  
Acq On : 03 Jun 2025 13:26  
Operator : RC/JU  
Sample : SSTDICC0.8  
Misc :  
ALS Vial : 5 Sample Multiplier: 1

Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC0.8

Quant Time: Jun 04 01:42:31 2025  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\8270-SIM-BN060325.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Wed Jun 04 01:40:18 2025  
Response via : Initial Calibration

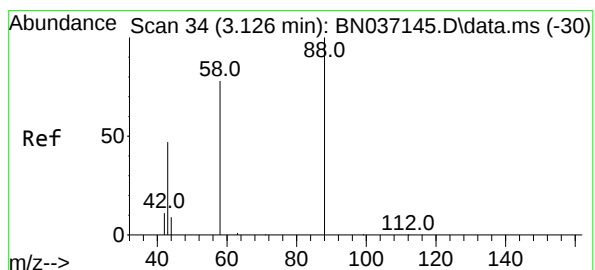
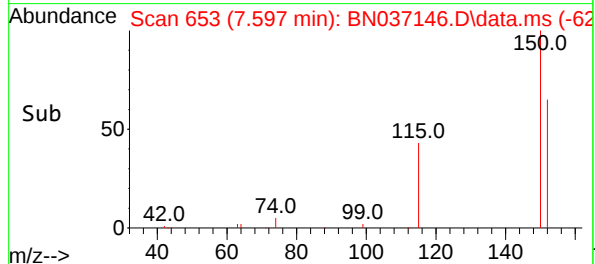
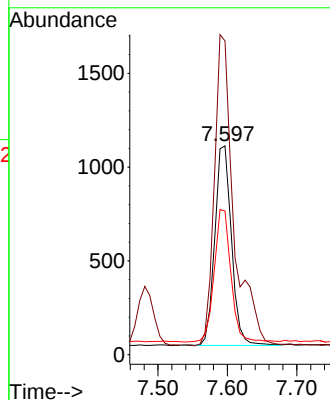
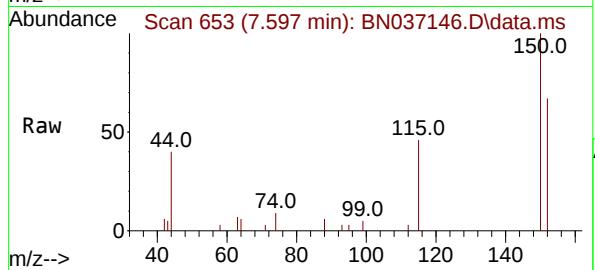




#1  
1,4-Dichlorobenzene-d4  
Concen: 0.400 ng  
RT: 7.597 min Scan# 61  
Delta R.T. 0.007 min  
Lab File: BN037146.D  
Acq: 03 Jun 2025 13:26

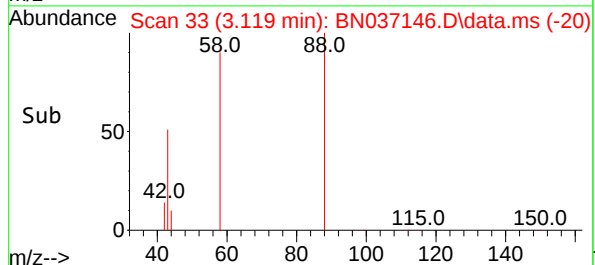
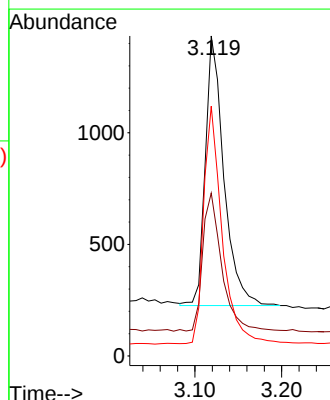
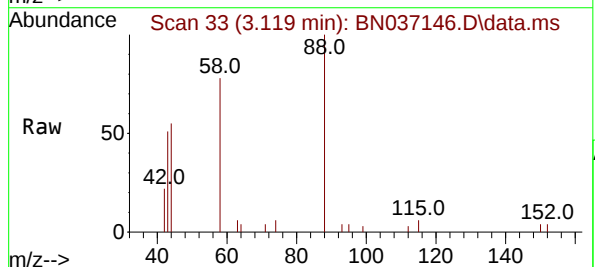
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC0.8

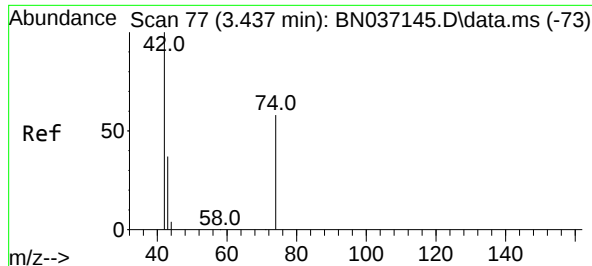
Tgt Ion:152 Resp: 1776  
Ion Ratio Lower Upper  
152 100  
150 150.3 123.2 184.8  
115 68.8 56.6 85.0



#2  
1,4-Dioxane  
Concen: 0.760 ng  
RT: 3.119 min Scan# 33  
Delta R.T. -0.007 min  
Lab File: BN037146.D  
Acq: 03 Jun 2025 13:26

Tgt Ion: 88 Resp: 1799  
Ion Ratio Lower Upper  
88 100  
43 52.9 43.5 65.3  
58 87.4 67.7 101.5

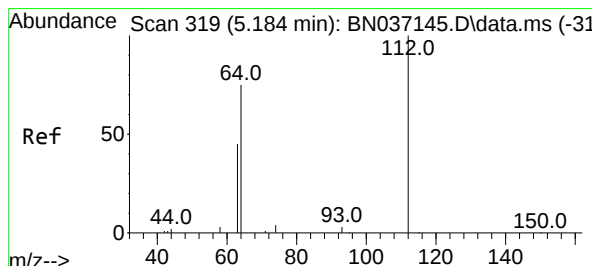
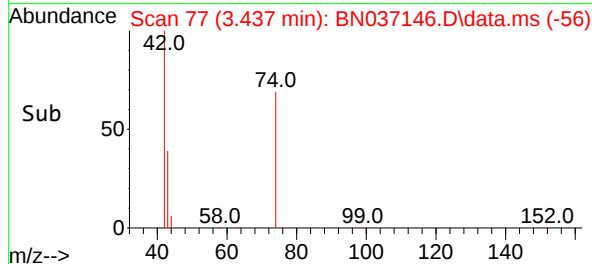
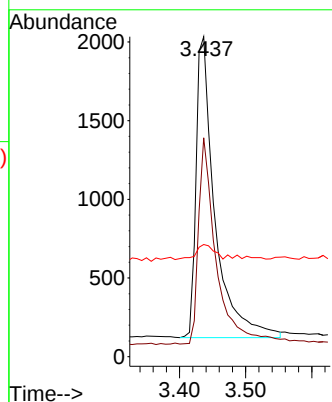
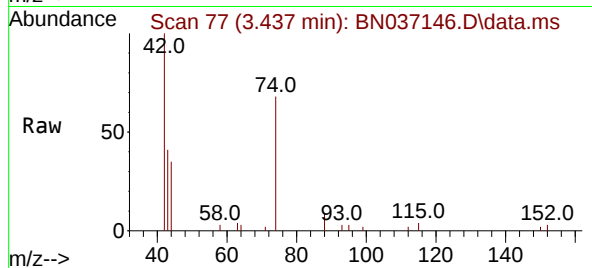




#3  
n-Nitrosodimethylamine  
Concen: 0.798 ng  
RT: 3.437 min Scan# 71  
Delta R.T. -0.000 min  
Lab File: BN037146.D  
Acq: 03 Jun 2025 13:26

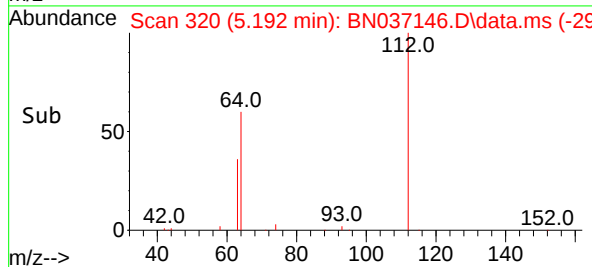
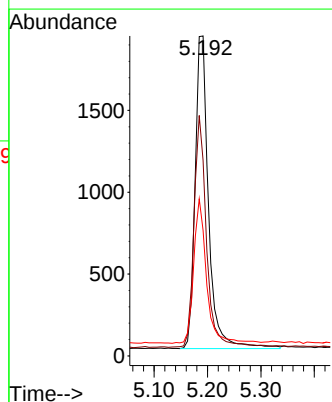
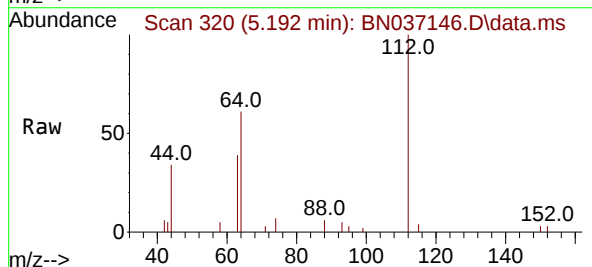
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC0.8

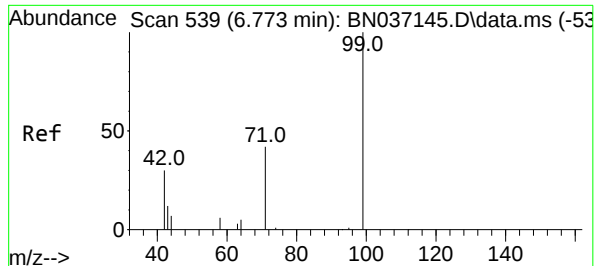
Tgt Ion: 42 Resp: 3791  
Ion Ratio Lower Upper  
42 100  
74 64.4 53.0 79.4  
44 4.8 5.9 8.9#



#4  
2-Fluorophenol  
Concen: 0.764 ng  
RT: 5.192 min Scan# 320  
Delta R.T. 0.007 min  
Lab File: BN037146.D  
Acq: 03 Jun 2025 13:26

Tgt Ion: 112 Resp: 3356  
Ion Ratio Lower Upper  
112 100  
64 69.7 56.3 84.5  
63 44.0 36.2 54.4

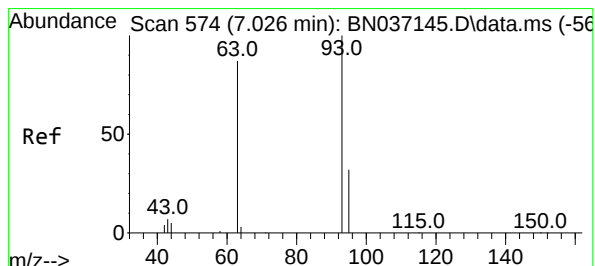
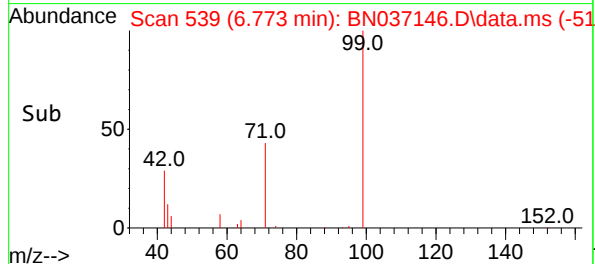
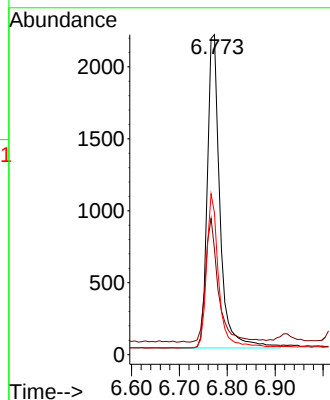
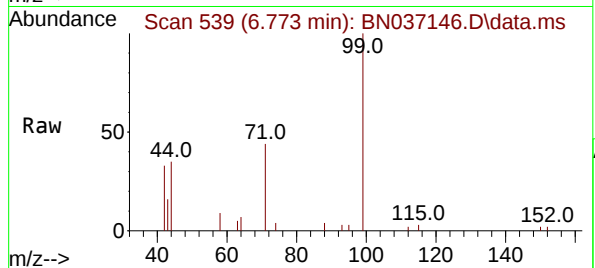




#5  
Phenol-d6  
Concen: 0.751 ng  
RT: 6.773 min Scan# 51  
Delta R.T. -0.000 min  
Lab File: BN037146.D  
Acq: 03 Jun 2025 13:26

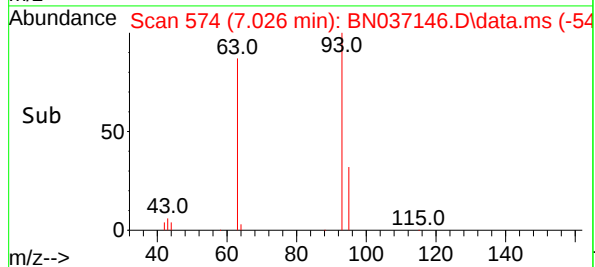
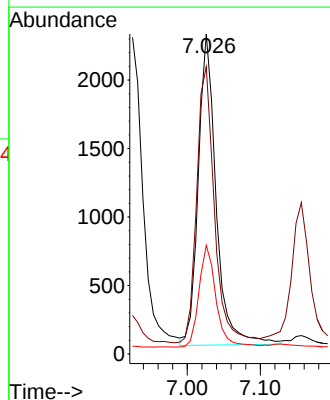
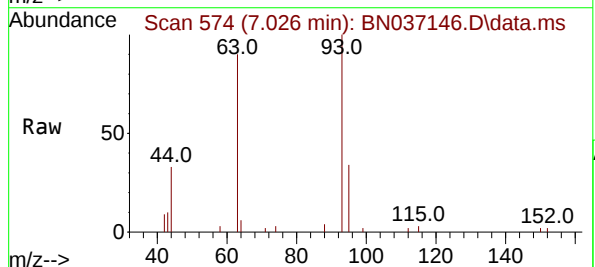
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC0.8

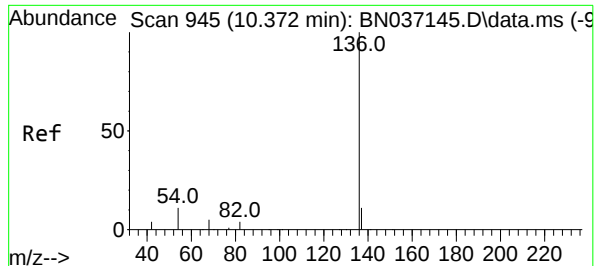
Tgt Ion: 99 Resp: 4000  
Ion Ratio Lower Upper  
99 100  
42 40.1 31.3 46.9  
71 47.5 38.2 57.2



#6  
bis(2-Chloroethyl)ether  
Concen: 0.761 ng  
RT: 7.026 min Scan# 574  
Delta R.T. -0.000 min  
Lab File: BN037146.D  
Acq: 03 Jun 2025 13:26

Tgt Ion: 93 Resp: 3867  
Ion Ratio Lower Upper  
93 100  
63 87.7 68.6 103.0  
95 31.2 24.3 36.5

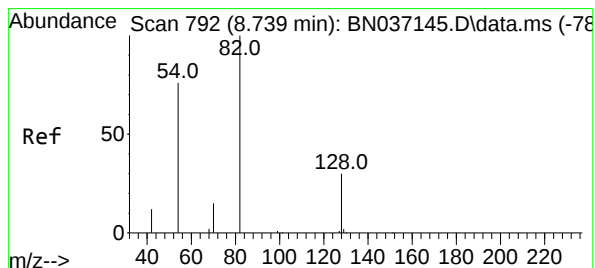
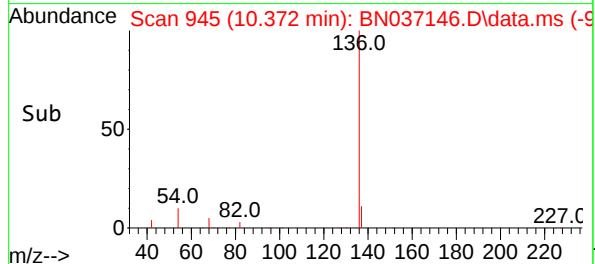
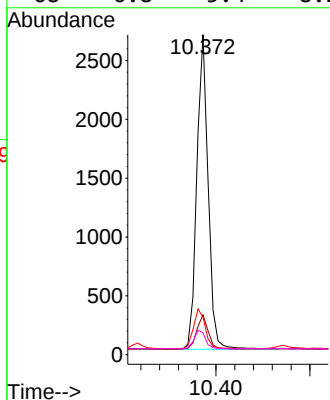
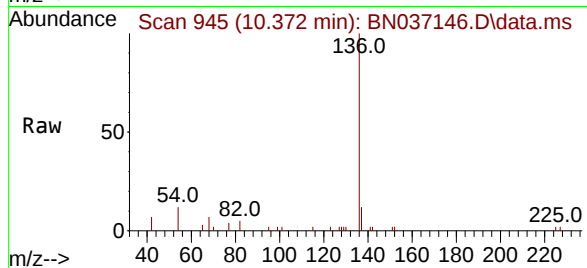




#7  
Naphthalene-d8  
Concen: 0.400 ng  
RT: 10.372 min Scan# 945  
Delta R.T. -0.000 min  
Lab File: BN037146.D  
Acq: 03 Jun 2025 13:26

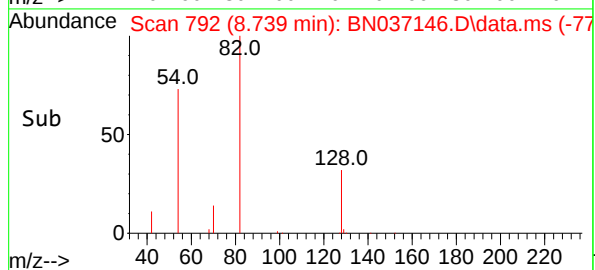
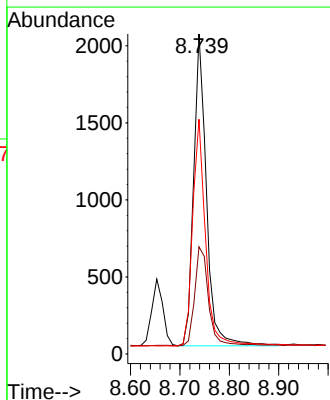
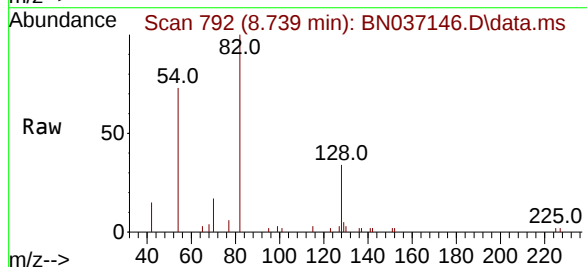
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC0.8

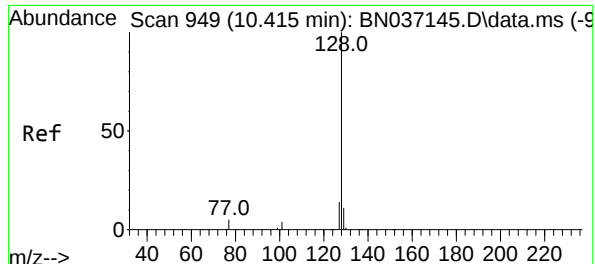
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 136   | Resp: | 4485  |
| Ion      | Ratio | Lower | Upper |
| 136      | 100   |       |       |
| 137      | 12.5  | 9.7   | 14.5  |
| 54       | 11.7  | 9.7   | 14.5  |
| 68       | 6.8   | 5.4   | 8.2   |



#8  
Nitrobenzene-d5  
Concen: 0.771 ng  
RT: 8.739 min Scan# 792  
Delta R.T. -0.000 min  
Lab File: BN037146.D  
Acq: 03 Jun 2025 13:26

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 82    | Resp: | 3647  |
| Ion      | Ratio | Lower | Upper |
| 82       | 100   |       |       |
| 128      | 33.5  | 26.9  | 40.3  |
| 54       | 73.4  | 61.4  | 92.2  |





#9

Naphthalene

Concen: 0.770 ng

RT: 10.415 min Scan# 949

Delta R.T. -0.000 min

Lab File: BN037146.D

Acq: 03 Jun 2025 13:26

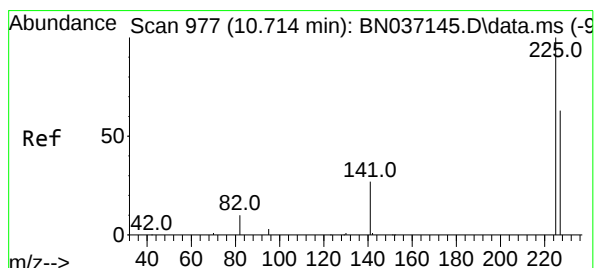
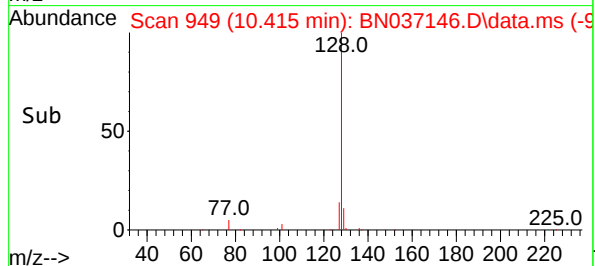
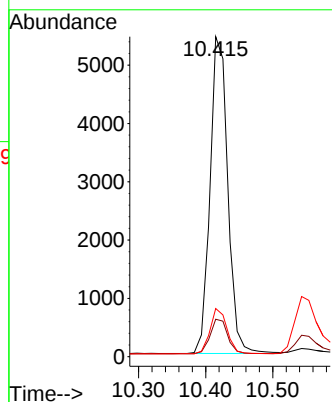
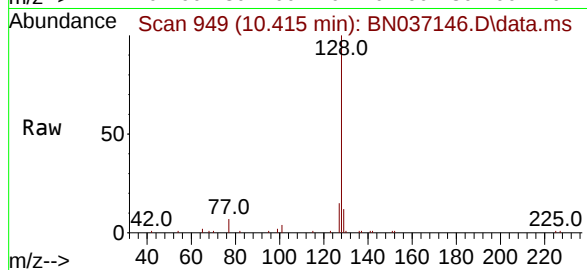
Instrument :

BNA\_N

ClientSampleId :

SSTDICC0.8

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 128   | Resp: | 9964  |
| Ion      | Ratio | Lower | Upper |
| 128      | 100   |       |       |
| 129      | 11.7  | 9.8   | 14.8  |
| 127      | 15.1  | 12.3  | 18.5  |



#10

Hexachlorobutadiene

Concen: 0.785 ng

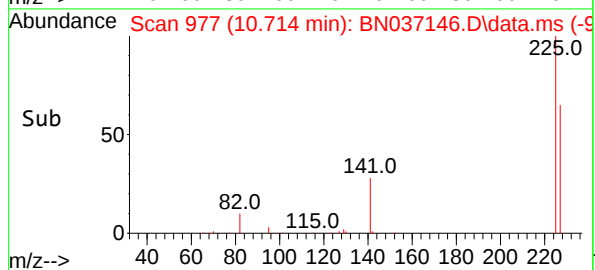
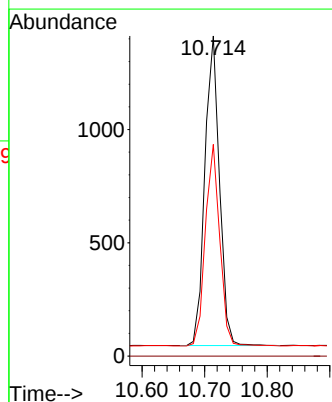
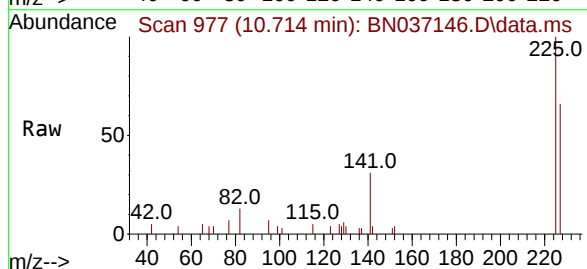
RT: 10.714 min Scan# 977

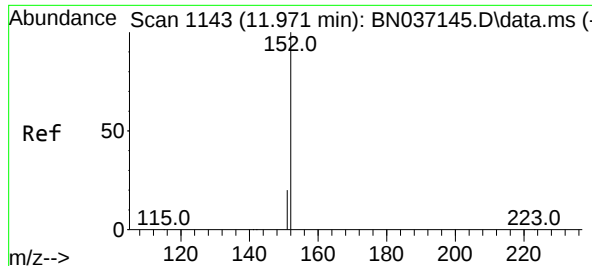
Delta R.T. -0.000 min

Lab File: BN037146.D

Acq: 03 Jun 2025 13:26

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 225   | Resp: | 2212  |
| Ion      | Ratio | Lower | Upper |
| 225      | 100   |       |       |
| 223      | 0.0   | 0.0   | 0.0   |
| 227      | 63.9  | 50.3  | 75.5  |

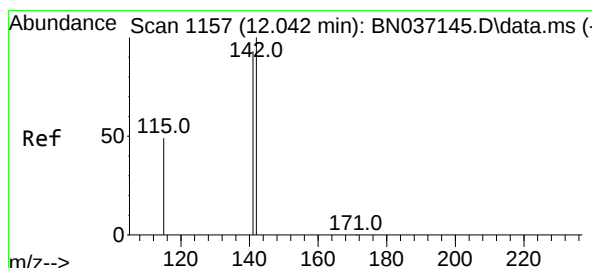
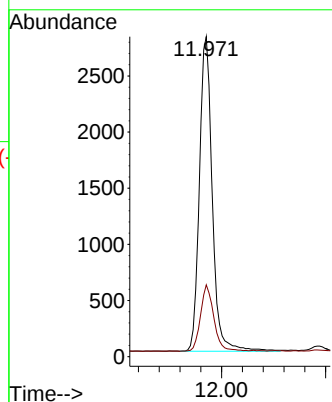
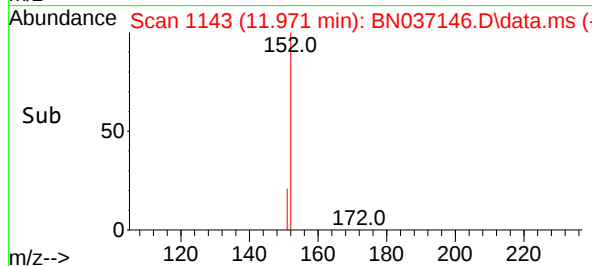
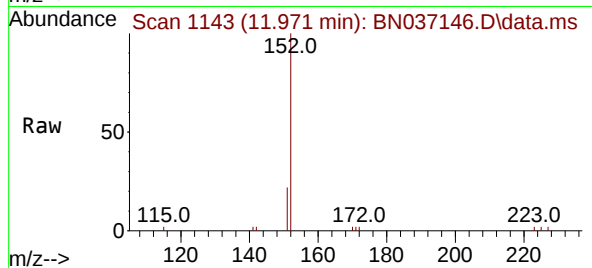




#11  
2-Methylnaphthalene-d10  
Concen: 0.770 ng  
RT: 11.971 min Scan# 1143  
Delta R.T. -0.000 min  
Lab File: BN037146.D  
Acq: 03 Jun 2025 13:26

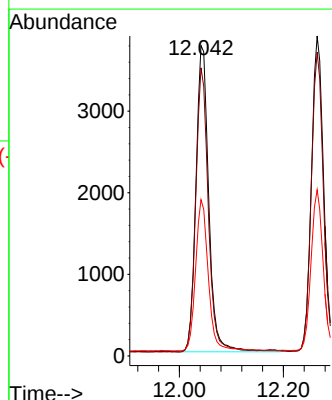
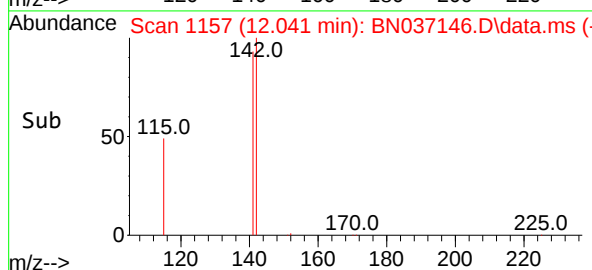
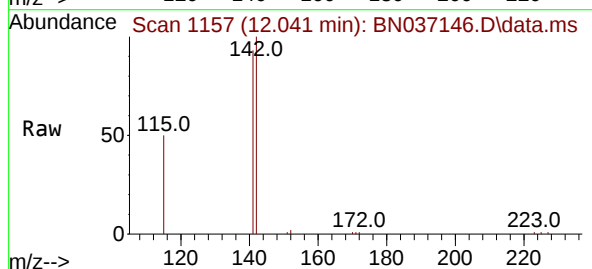
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC0.8

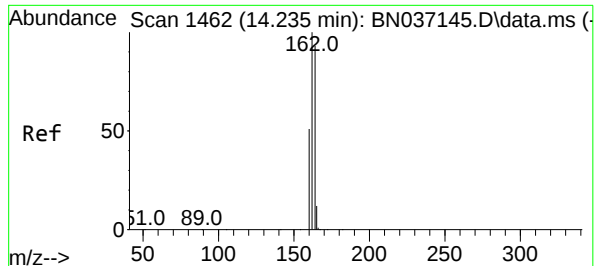
Tgt Ion:152 Resp: 4809  
Ion Ratio Lower Upper  
152 100  
151 21.8 17.1 25.7



#12  
2-Methylnaphthalene  
Concen: 0.777 ng  
RT: 12.041 min Scan# 1157  
Delta R.T. -0.000 min  
Lab File: BN037146.D  
Acq: 03 Jun 2025 13:26

Tgt Ion:142 Resp: 6445  
Ion Ratio Lower Upper  
142 100  
141 92.8 74.6 111.8  
115 50.3 41.0 61.4





#13

Acenaphthene-d10

Concen: 0.400 ng

RT: 14.234 min Scan# 1462

Delta R.T. -0.000 min

Lab File: BN037146.D

Acq: 03 Jun 2025 13:26

Instrument :

BNA\_N

ClientSampleId :

SSTDIC0.8

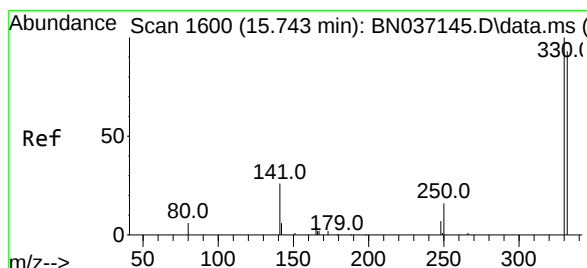
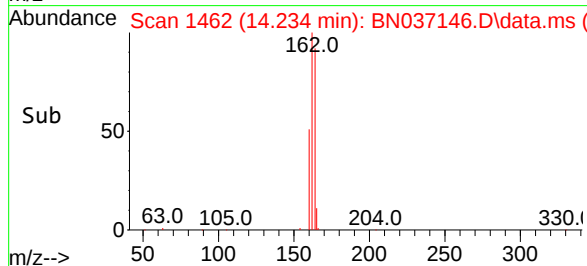
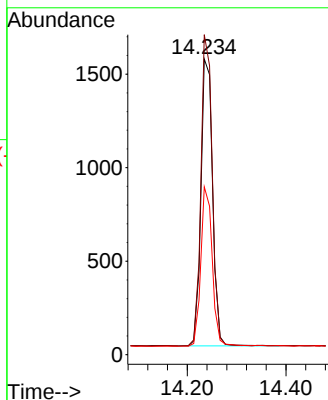
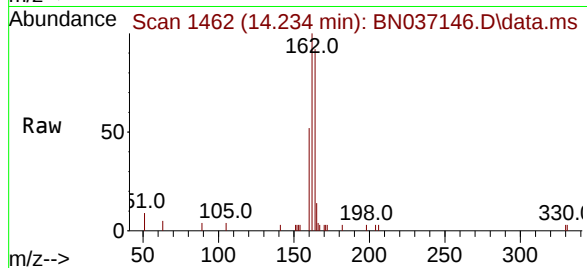
Tgt Ion:164 Resp: 2508

Ion Ratio Lower Upper

164 100

162 108.2 85.5 128.3

160 56.8 44.6 67.0



#14

2,4,6-Tribromophenol

Concen: 0.781 ng

RT: 15.743 min Scan# 1600

Delta R.T. -0.000 min

Lab File: BN037146.D

Acq: 03 Jun 2025 13:26

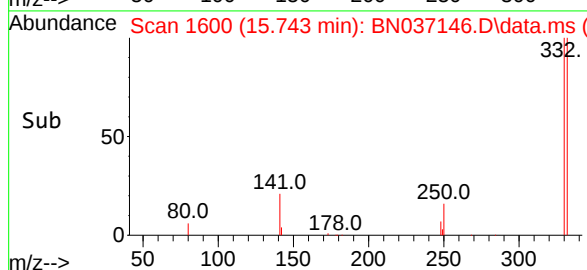
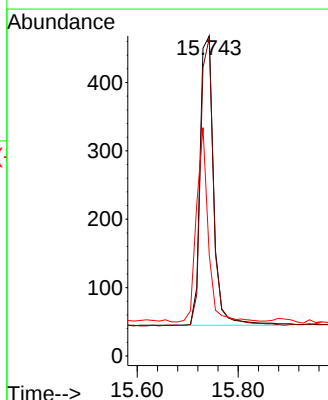
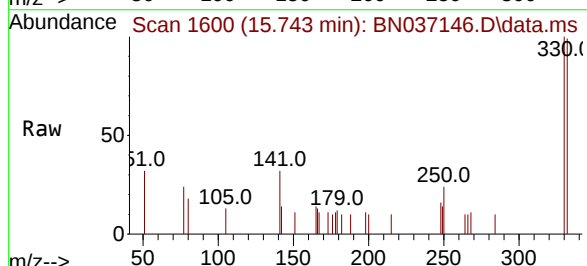
Tgt Ion:330 Resp: 789

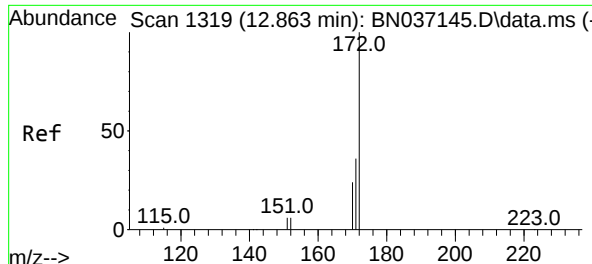
Ion Ratio Lower Upper

330 100

332 97.5 77.1 115.7

141 58.3 46.4 69.6





#15

2-Fluorobiphenyl

Concen: 0.776 ng

RT: 12.863 min Scan# 11

Delta R.T. -0.000 min

Lab File: BN037146.D

Acq: 03 Jun 2025 13:26

Instrument :

BNA\_N

ClientSampleId :

SSTDICC0.8

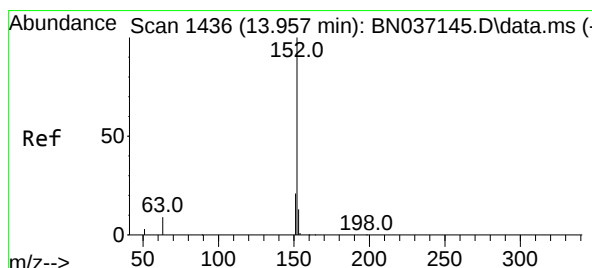
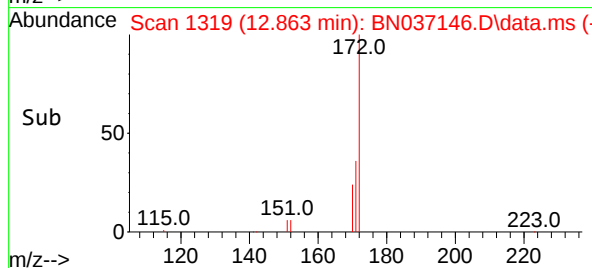
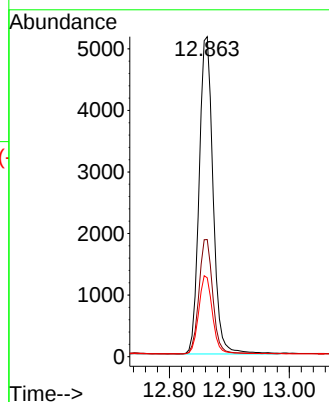
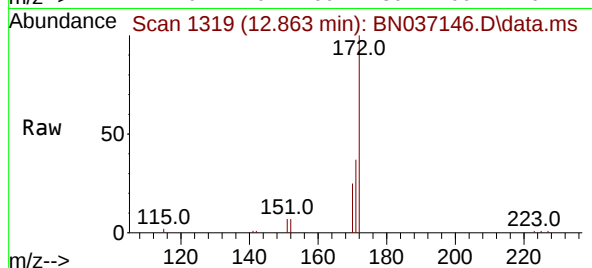
Tgt Ion:172 Resp: 8296

Ion Ratio Lower Upper

172 100

171 36.6 29.6 44.4

170 24.7 20.3 30.5



#16

Acenaphthylene

Concen: 0.763 ng

RT: 13.957 min Scan# 1436

Delta R.T. -0.000 min

Lab File: BN037146.D

Acq: 03 Jun 2025 13:26

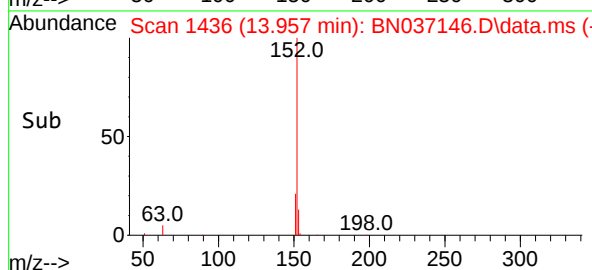
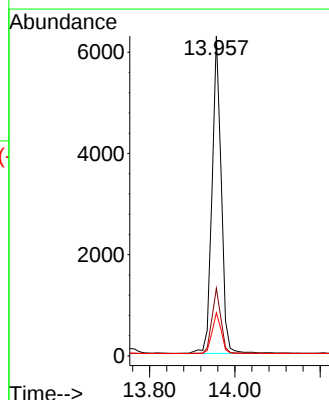
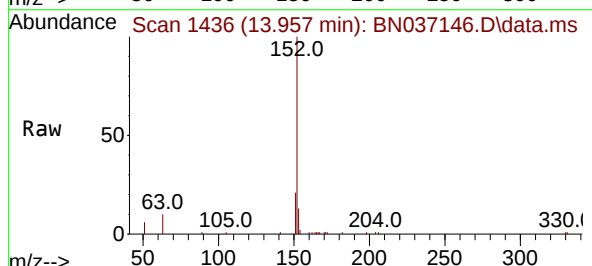
Tgt Ion:152 Resp: 9385

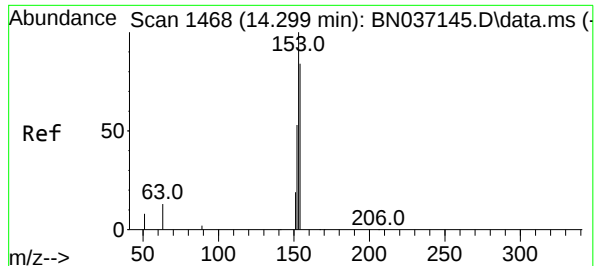
Ion Ratio Lower Upper

152 100

151 20.2 16.3 24.5

153 12.9 10.6 15.8





#17

Acenaphthene

Concen: 0.762 ng

RT: 14.299 min Scan# 1468

Delta R.T. -0.000 min

Lab File: BN037146.D

Acq: 03 Jun 2025 13:26

Instrument :

BNA\_N

ClientSampleId :

SSTDICC0.8

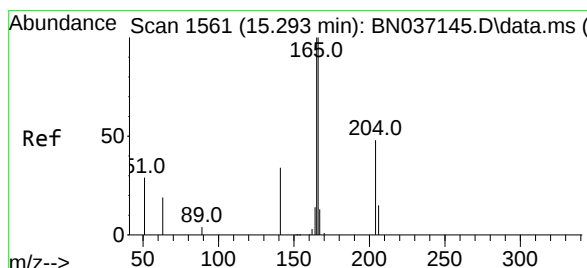
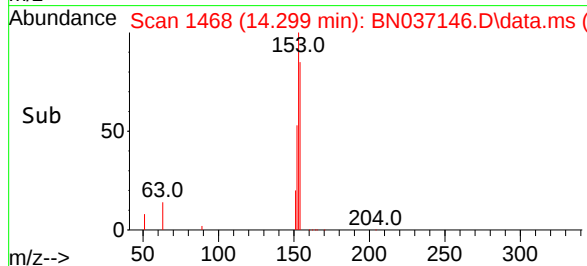
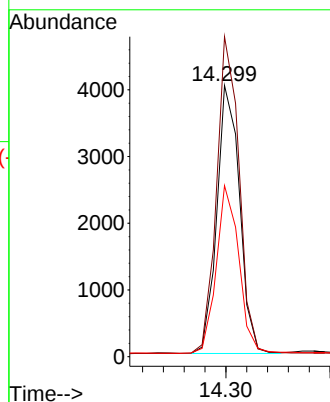
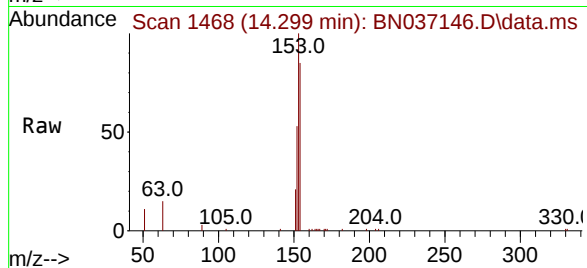
Tgt Ion:154 Resp: 6080

Ion Ratio Lower Upper

154 100

153 117.4 93.8 140.8

152 62.7 50.5 75.7



#18

Fluorene

Concen: 0.770 ng

RT: 15.293 min Scan# 1561

Delta R.T. -0.000 min

Lab File: BN037146.D

Acq: 03 Jun 2025 13:26

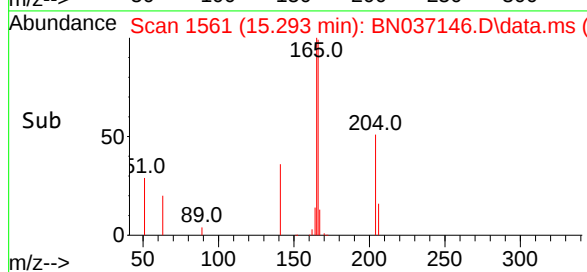
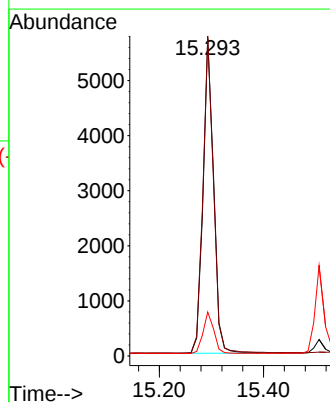
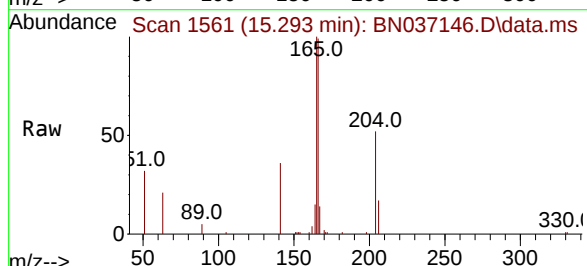
Tgt Ion:166 Resp: 8080

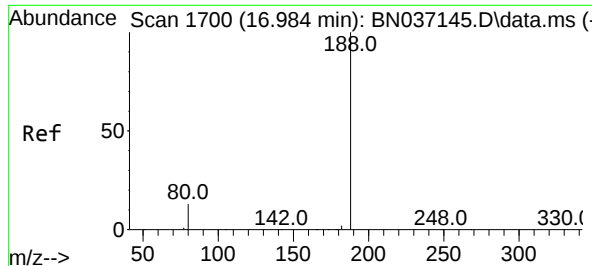
Ion Ratio Lower Upper

166 100

165 100.5 81.1 121.7

167 13.3 10.8 16.2





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 16.984 min Scan# 11

Delta R.T. -0.000 min

Lab File: BN037146.D

Acq: 03 Jun 2025 13:26

Instrument :

BNA\_N

ClientSampleId :

SSTDICC0.8

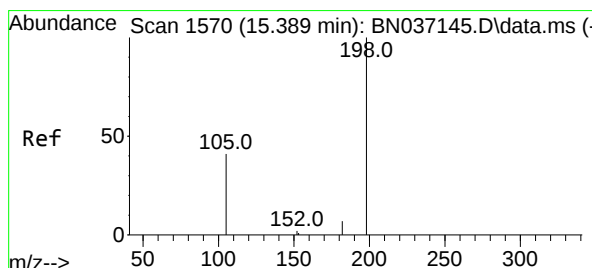
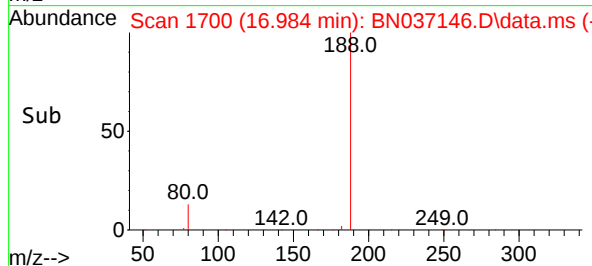
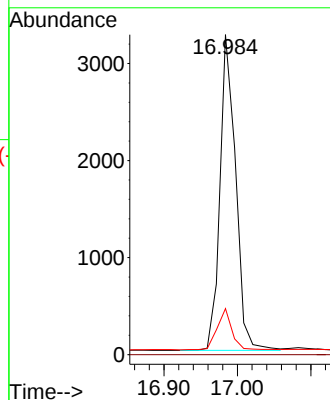
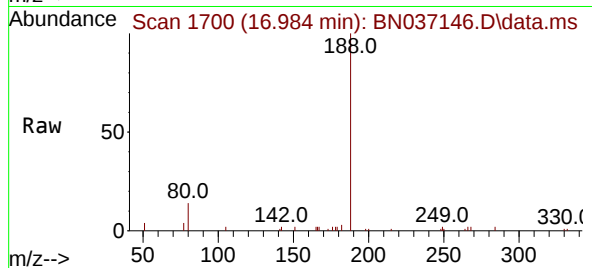
Tgt Ion:188 Resp: 4816

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 14.4 11.3 16.9



#20

4,6-Dinitro-2-methylphenol

Concen: 0.730 ng

RT: 15.389 min Scan# 1570

Delta R.T. 0.000 min

Lab File: BN037146.D

Acq: 03 Jun 2025 13:26

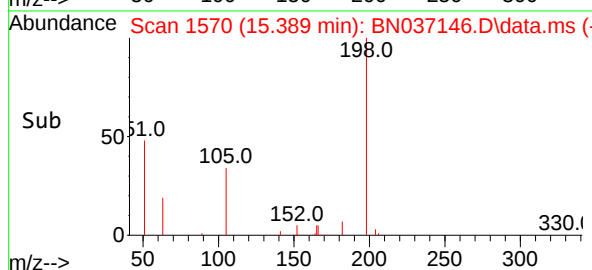
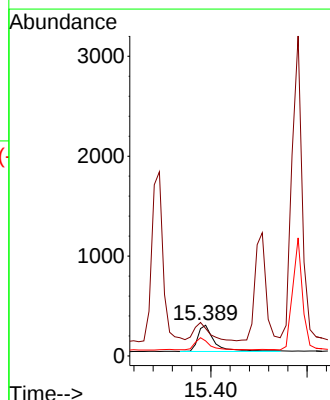
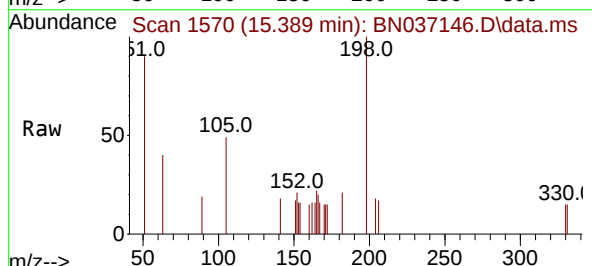
Tgt Ion:198 Resp: 643

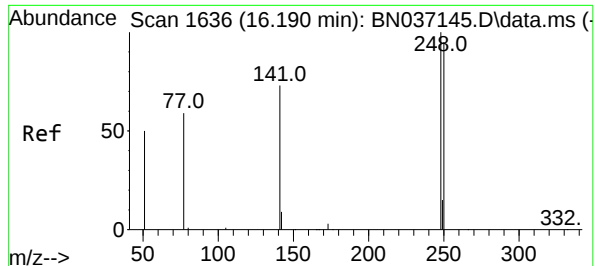
Ion Ratio Lower Upper

198 100

51 89.6 125.2 187.8#

105 49.2 57.1 85.7#

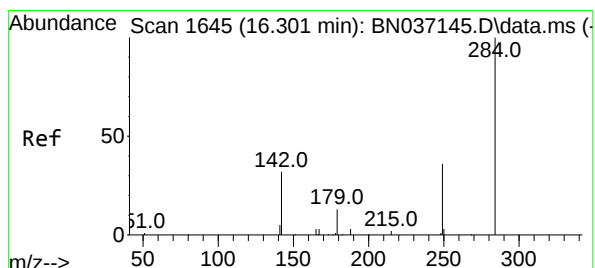
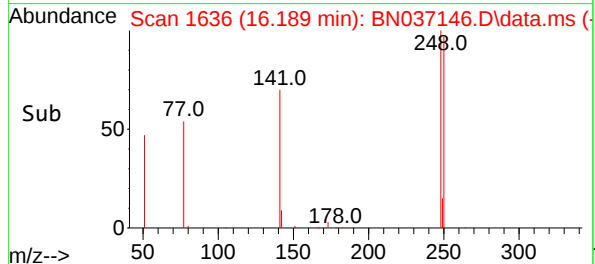
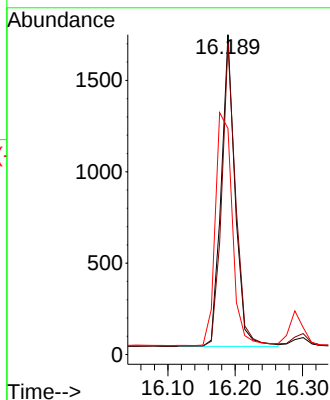
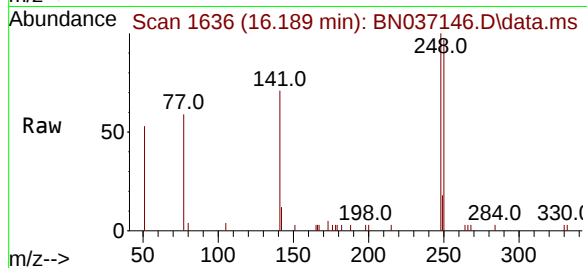




#21  
4-Bromophenyl-phenylether  
Concen: 0.775 ng  
RT: 16.189 min Scan# 1636  
Delta R.T. -0.000 min  
Lab File: BN037146.D  
Acq: 03 Jun 2025 13:26

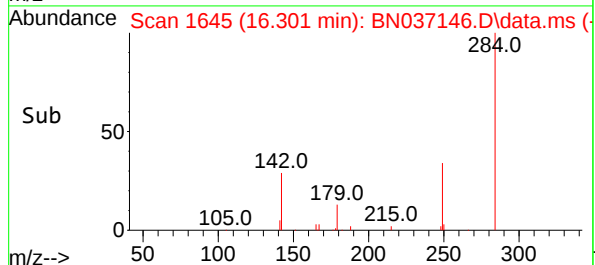
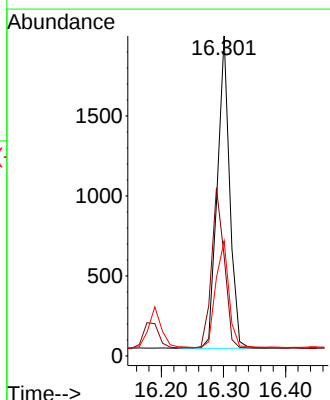
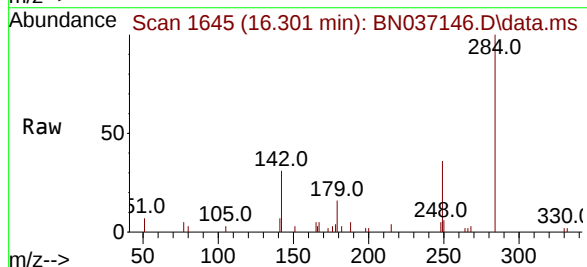
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC0.8

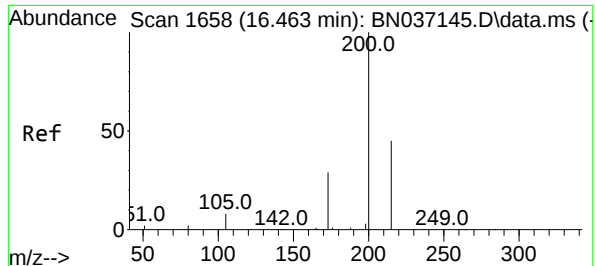
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 248     | 100   |       |       |
| 250     | 97.2  | 76.1  | 114.1 |
| 141     | 70.7  | 60.1  | 90.1  |



#22  
Hexachlorobenzene  
Concen: 0.790 ng  
RT: 16.301 min Scan# 1645  
Delta R.T. -0.000 min  
Lab File: BN037146.D  
Acq: 03 Jun 2025 13:26

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 284     | 100   |       |       |
| 142     | 53.3  | 44.0  | 66.0  |
| 249     | 36.2  | 29.7  | 44.5  |

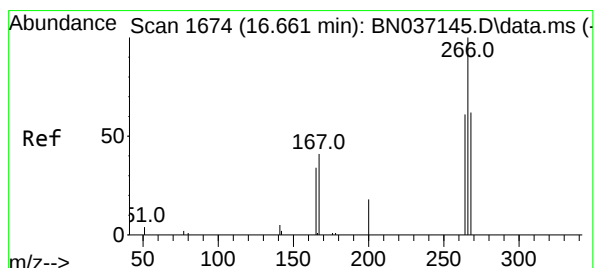
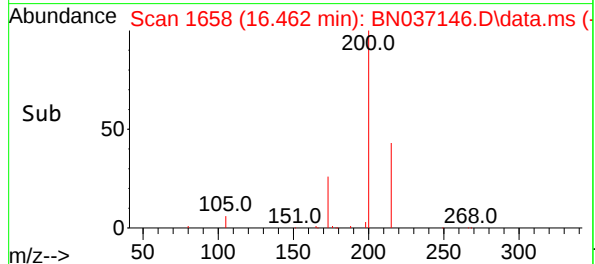
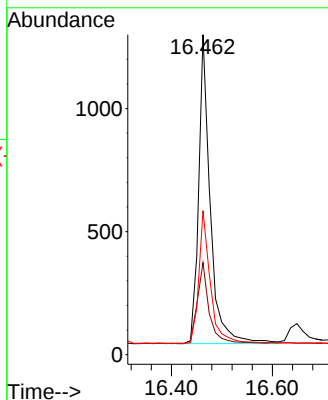
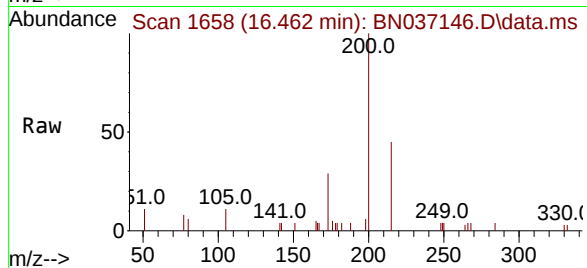




#23  
Atrazine  
Concen: 0.772 ng  
RT: 16.462 min Scan# 1658  
Delta R.T. -0.000 min  
Lab File: BN037146.D  
Acq: 03 Jun 2025 13:26

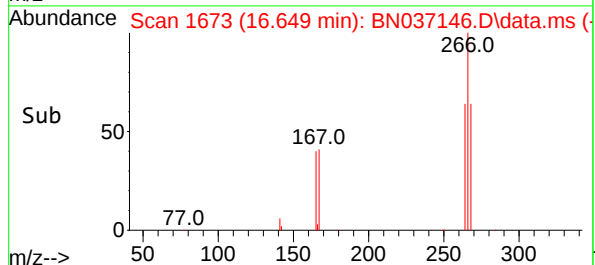
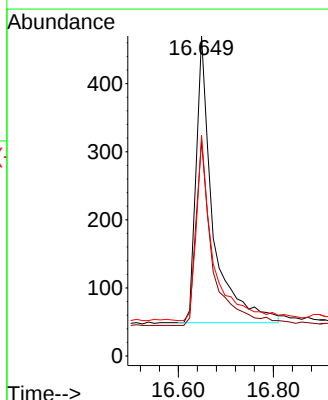
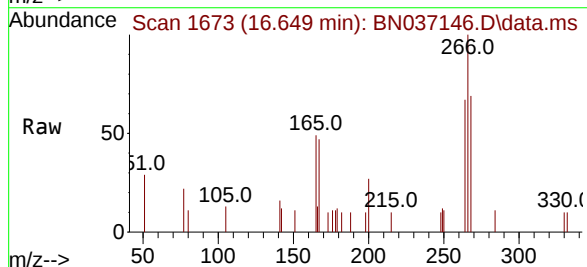
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC0.8

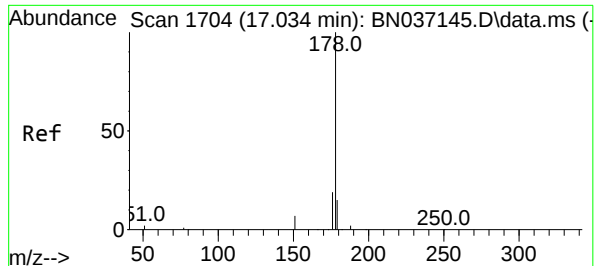
Tgt Ion:200 Resp: 2011  
Ion Ratio Lower Upper  
200 100  
173 28.8 28.1 42.1  
215 45.0 39.3 58.9



#24  
Pentachlorophenol  
Concen: 0.722 ng  
RT: 16.649 min Scan# 1673  
Delta R.T. -0.012 min  
Lab File: BN037146.D  
Acq: 03 Jun 2025 13:26

Tgt Ion:266 Resp: 1033  
Ion Ratio Lower Upper  
266 100  
264 64.1 49.3 73.9  
268 64.2 49.0 73.4





#25

Phenanthrene

Concen: 0.770 ng

RT: 17.033 min Scan# 1704

Delta R.T. -0.000 min

Lab File: BN037146.D

Acq: 03 Jun 2025 13:26

Instrument :

BNA\_N

ClientSampleId :

SSTDICC0.8

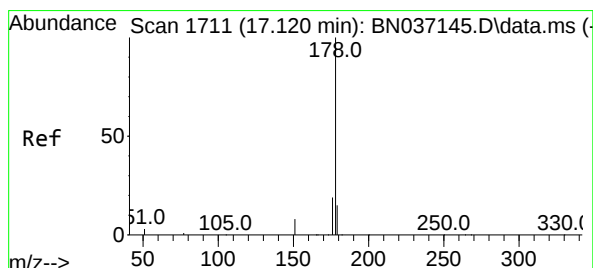
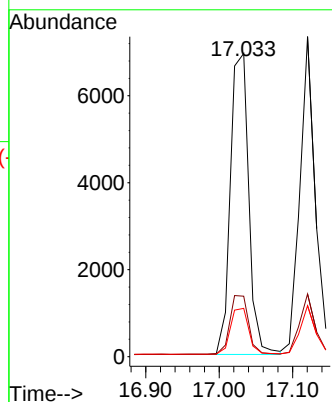
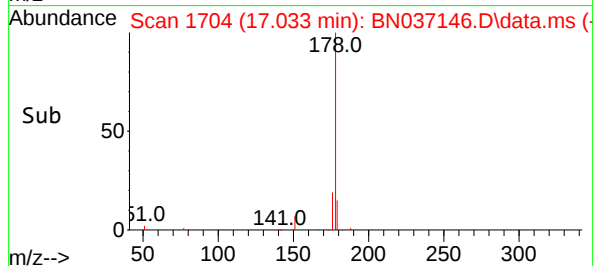
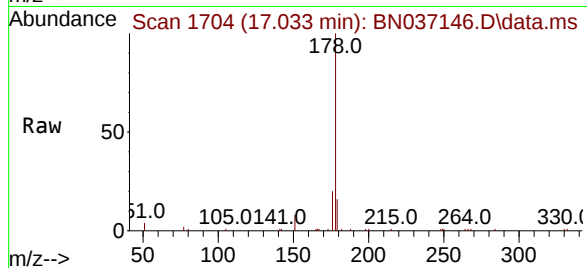
Tgt Ion:178 Resp: 12021

Ion Ratio Lower Upper

178 100

176 20.0 15.7 23.5

179 15.4 12.3 18.5



#26

Anthracene

Concen: 0.773 ng

RT: 17.120 min Scan# 1711

Delta R.T. -0.000 min

Lab File: BN037146.D

Acq: 03 Jun 2025 13:26

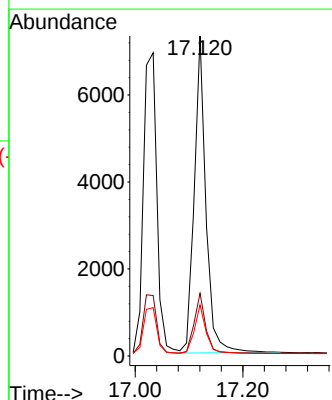
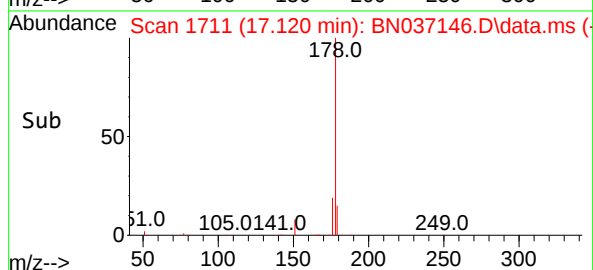
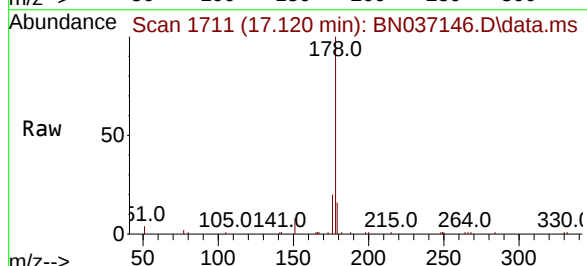
Tgt Ion:178 Resp: 11005

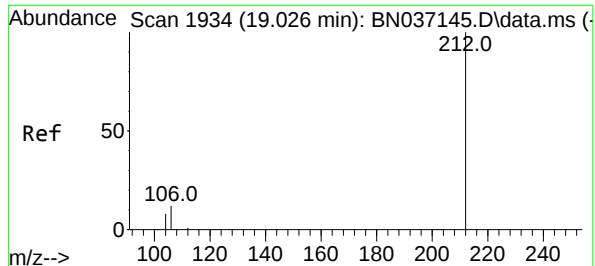
Ion Ratio Lower Upper

178 100

176 19.0 15.2 22.8

179 15.2 12.9 19.3





#27

Fluoranthene-d10

Concen: 0.753 ng

RT: 19.026 min Scan# 1934

Delta R.T. -0.000 min

Lab File: BN037146.D

Acq: 03 Jun 2025 13:26

Instrument :

BNA\_N

ClientSampleId :

SSTDICC0.8

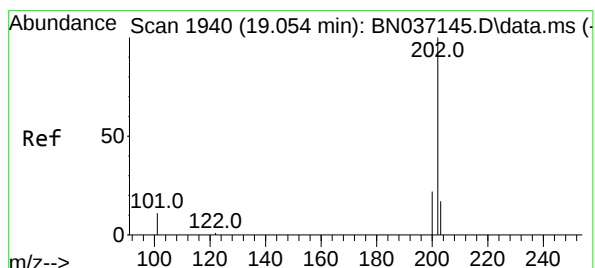
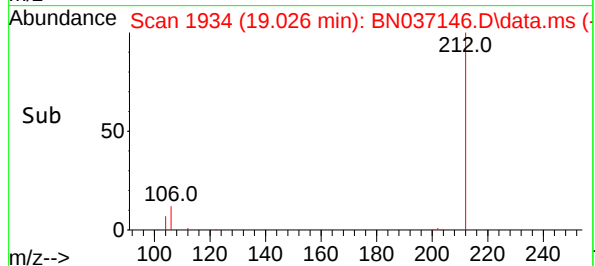
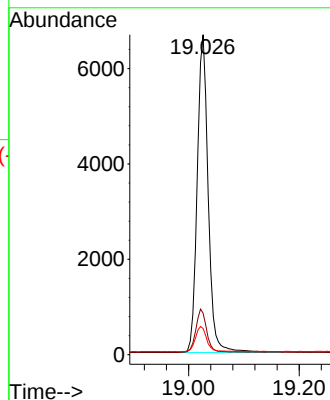
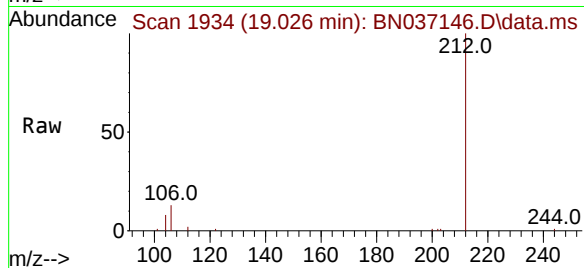
Tgt Ion:212 Resp: 9209

Ion Ratio Lower Upper

212 100

106 13.3 10.6 15.8

104 8.1 6.6 9.8



#28

Fluoranthene

Concen: 0.763 ng

RT: 19.054 min Scan# 1940

Delta R.T. -0.000 min

Lab File: BN037146.D

Acq: 03 Jun 2025 13:26

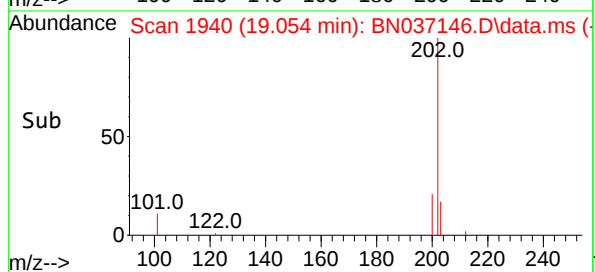
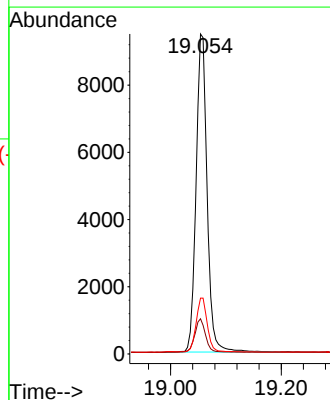
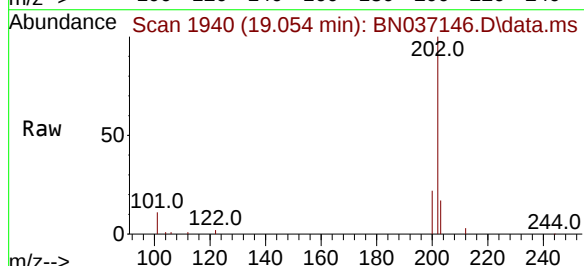
Tgt Ion:202 Resp: 13144

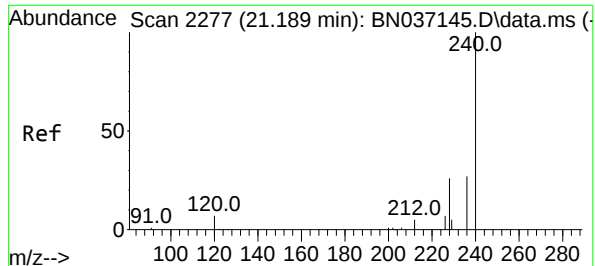
Ion Ratio Lower Upper

202 100

101 10.6 8.7 13.1

203 17.0 13.5 20.3





#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.189 min Scan# 21

Delta R.T. -0.000 min

Lab File: BN037146.D

Acq: 03 Jun 2025 13:26

Instrument :

BNA\_N

ClientSampleId :

SSTDICC0.8

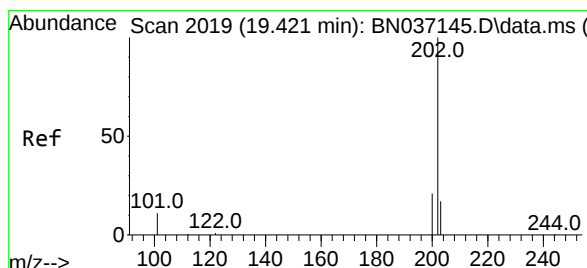
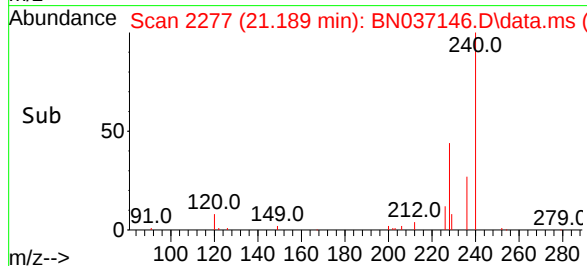
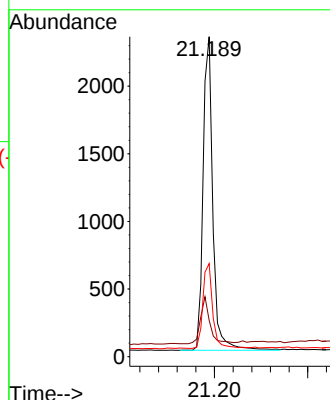
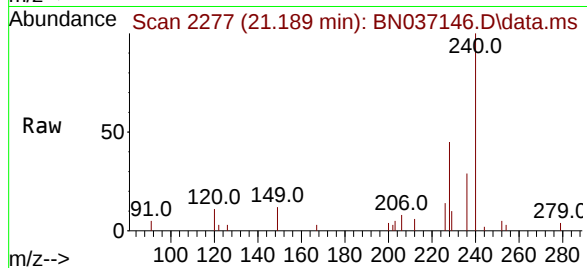
Tgt Ion:240 Resp: 3381

Ion Ratio Lower Upper

240 100

120 11.3 9.0 13.4

236 29.1 23.0 34.4



#30

Pyrene

Concen: 0.790 ng

RT: 19.421 min Scan# 2019

Delta R.T. -0.000 min

Lab File: BN037146.D

Acq: 03 Jun 2025 13:26

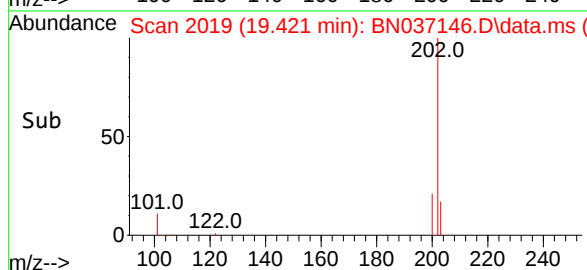
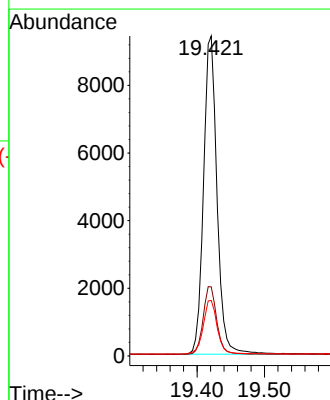
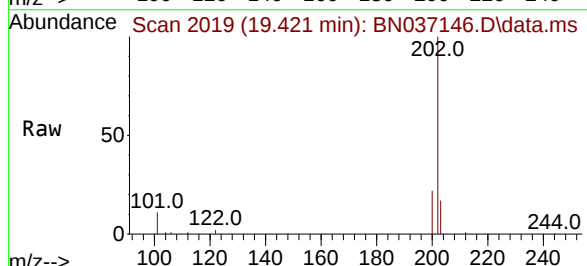
Tgt Ion:202 Resp: 13035

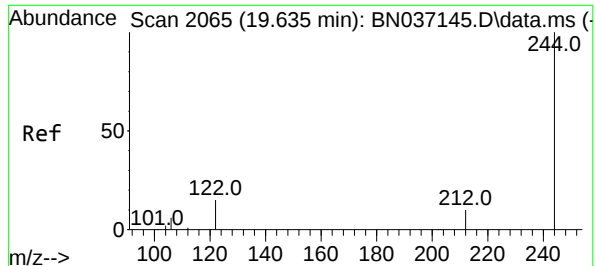
Ion Ratio Lower Upper

202 100

200 21.6 17.0 25.6

203 17.6 14.2 21.4

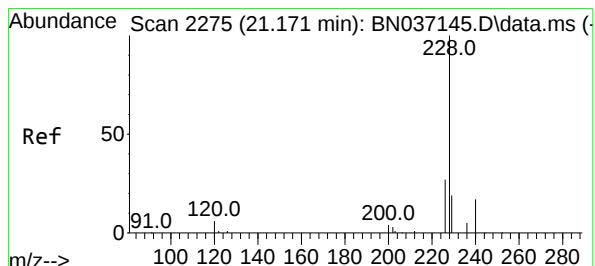
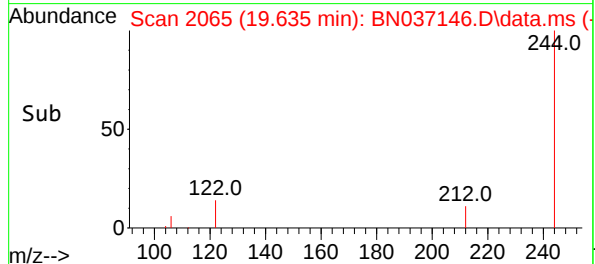
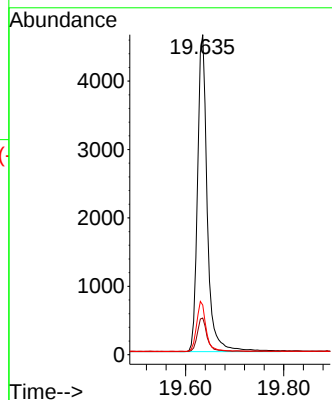
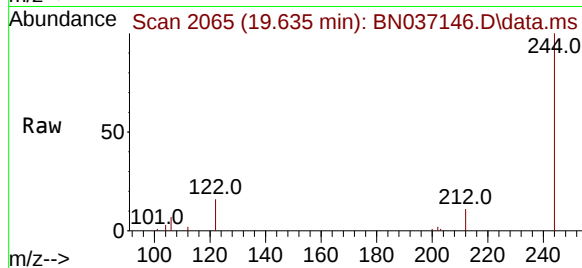




#31  
Terphenyl-d14  
Concen: 0.800 ng  
RT: 19.635 min Scan# 2065  
Delta R.T. -0.000 min  
Lab File: BN037146.D  
Acq: 03 Jun 2025 13:26

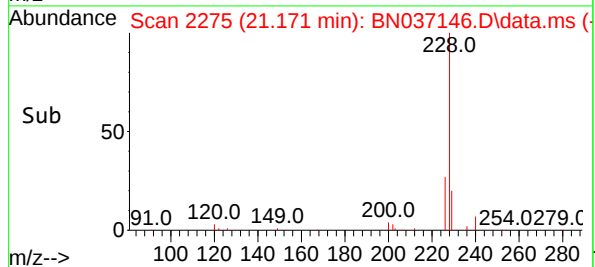
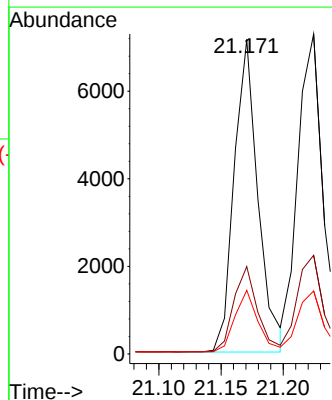
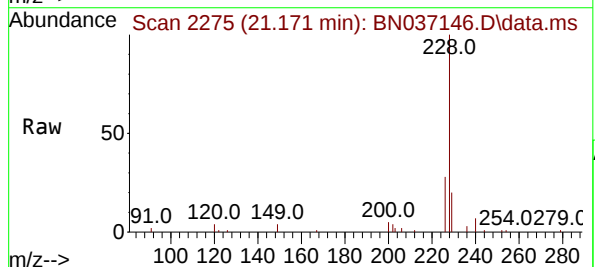
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC0.8

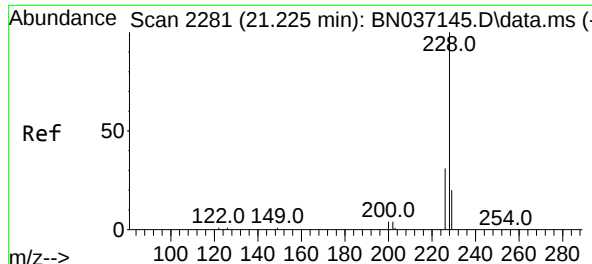
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 244     | 100   |       |       |
| 212     | 11.5  | 10.0  | 15.0  |
| 122     | 15.5  | 13.2  | 19.8  |



#32  
Benzo(a)anthracene  
Concen: 0.776 ng  
RT: 21.171 min Scan# 2275  
Delta R.T. -0.000 min  
Lab File: BN037146.D  
Acq: 03 Jun 2025 13:26

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 228     | 100   |       |       |
| 226     | 27.8  | 22.6  | 33.8  |
| 229     | 20.2  | 16.2  | 24.2  |





#33

Chrysene

Concen: 0.785 ng

RT: 21.224 min Scan# 21

Delta R.T. -0.000 min

Lab File: BN037146.D

Acq: 03 Jun 2025 13:26

Instrument :

BNA\_N

ClientSampleId :

SSTDIC0.8

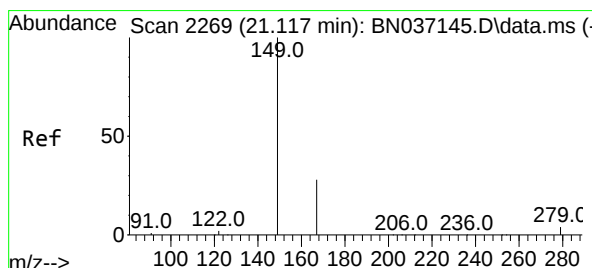
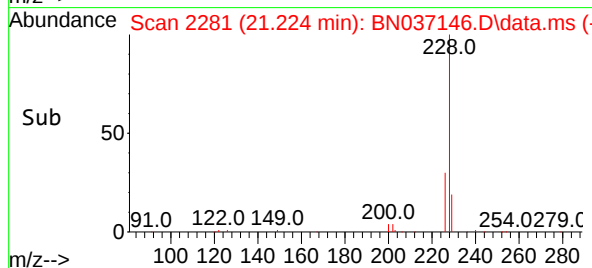
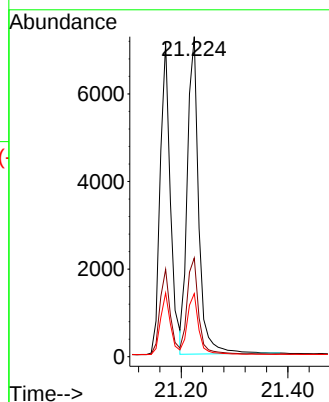
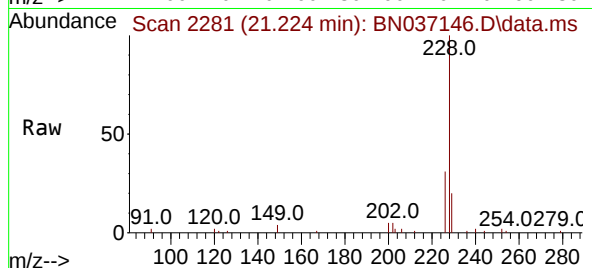
Tgt Ion:228 Resp: 10700

Ion Ratio Lower Upper

228 100

226 30.9 25.2 37.8

229 19.7 16.8 25.2



#34

Bis(2-ethylhexyl)phthalate

Concen: 0.751 ng

RT: 21.117 min Scan# 2269

Delta R.T. -0.000 min

Lab File: BN037146.D

Acq: 03 Jun 2025 13:26

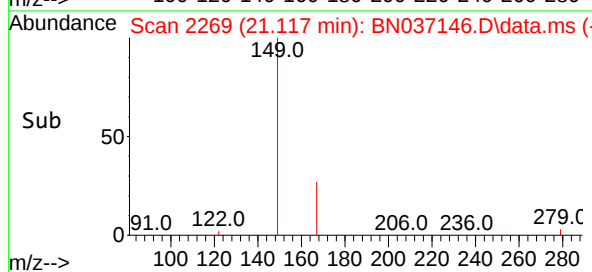
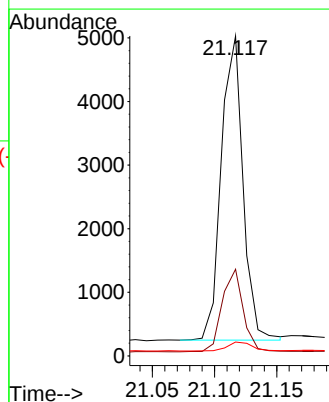
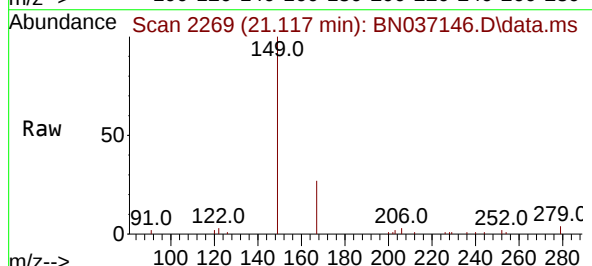
Tgt Ion:149 Resp: 5801

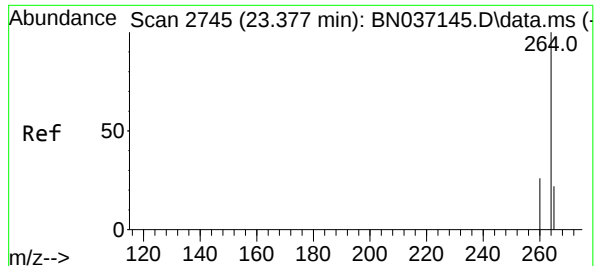
Ion Ratio Lower Upper

149 100

167 26.3 21.0 31.4

279 3.3 2.9 4.3





#35

Perylene-d12

Concen: 0.400 ng

RT: 23.380 min Scan# 21

Delta R.T. 0.003 min

Lab File: BN037146.D

Acq: 03 Jun 2025 13:26

Instrument :

BNA\_N

ClientSampleId :

SSTDIC0.8

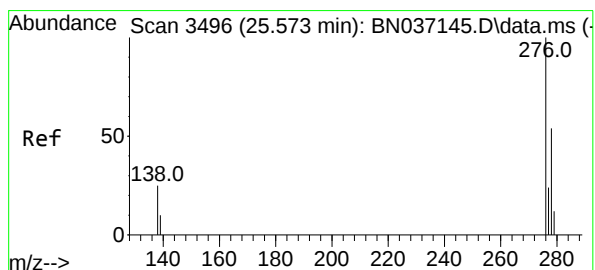
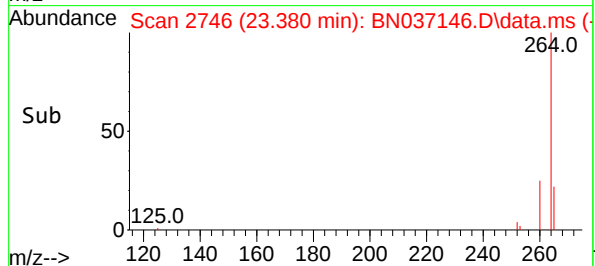
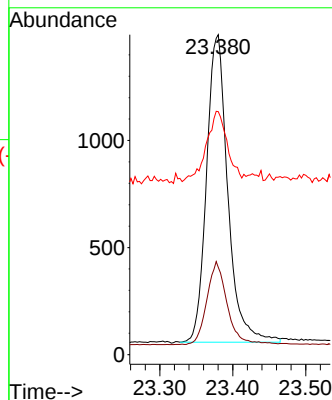
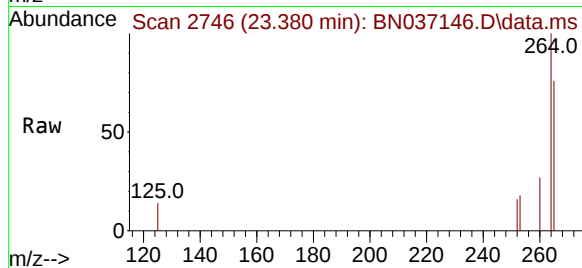
Tgt Ion:264 Resp: 2909

Ion Ratio Lower Upper

264 100

260 27.3 22.1 33.1

265 76.0 55.8 83.8



#36

Indeno(1,2,3-cd)pyrene

Concen: 0.767 ng

RT: 25.573 min Scan# 3496

Delta R.T. -0.000 min

Lab File: BN037146.D

Acq: 03 Jun 2025 13:26

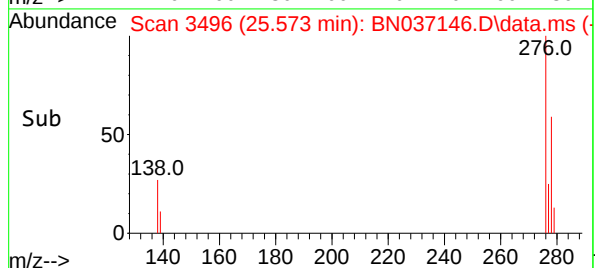
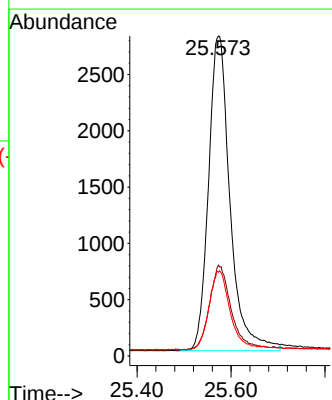
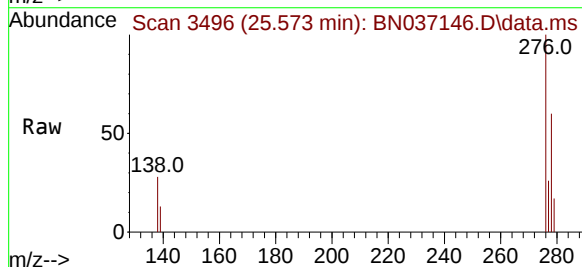
Tgt Ion:276 Resp: 8881

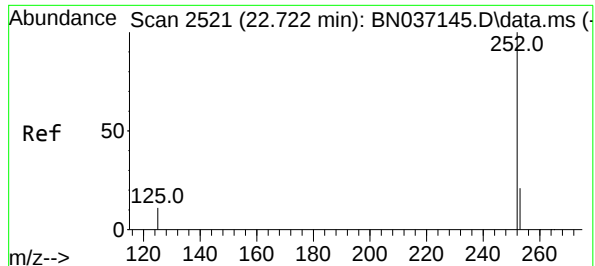
Ion Ratio Lower Upper

276 100

138 27.1 21.0 31.6

277 24.5 19.4 29.2





#37

Benzo(b)fluoranthene

Concen: 0.780 ng

RT: 22.722 min Scan# 2521

Delta R.T. -0.000 min

Lab File: BN037146.D

Acq: 03 Jun 2025 13:26

Instrument :

BNA\_N

ClientSampleId :

SSTDICC0.8

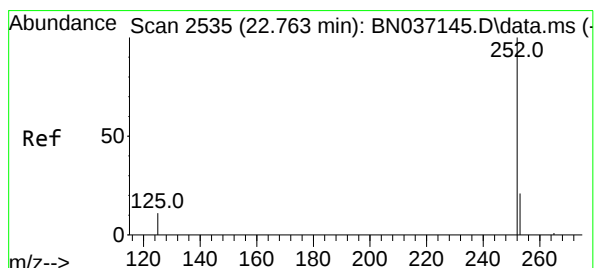
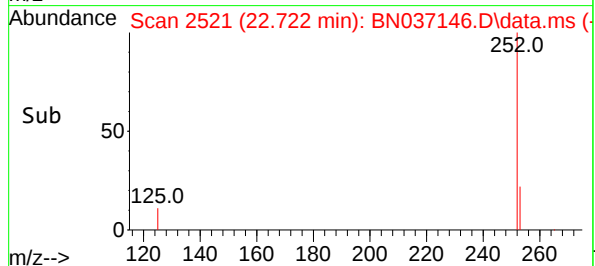
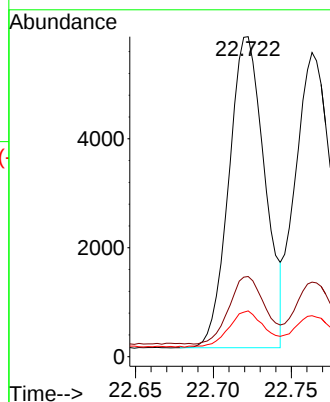
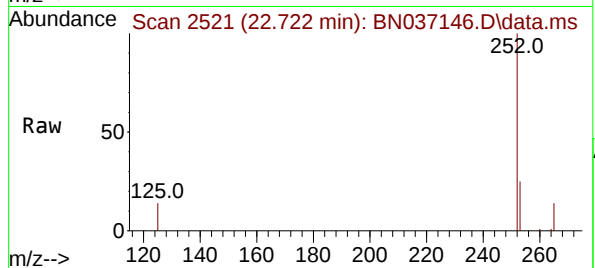
Tgt Ion:252 Resp: 9165

Ion Ratio Lower Upper

252 100

253 25.0 22.3 33.5

125 14.3 13.2 19.8



#38

Benzo(k)fluoranthene

Concen: 0.782 ng

RT: 22.763 min Scan# 2535

Delta R.T. -0.000 min

Lab File: BN037146.D

Acq: 03 Jun 2025 13:26

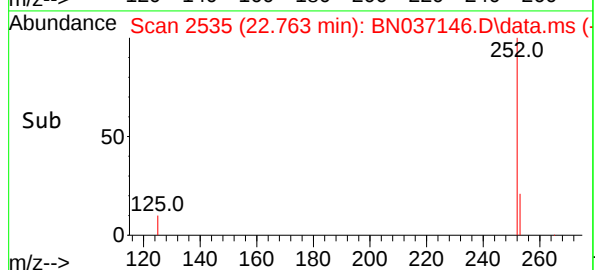
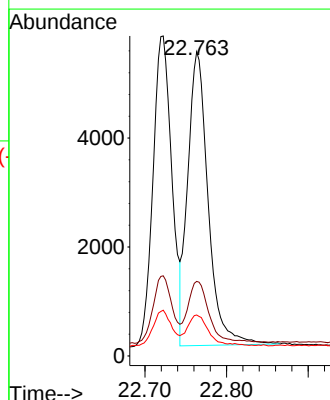
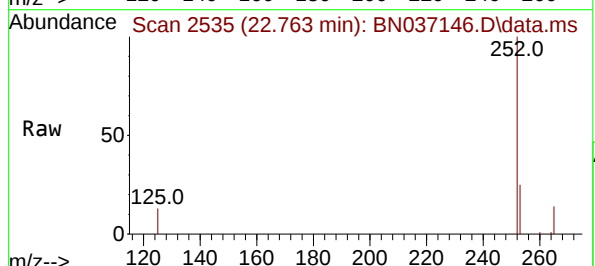
Tgt Ion:252 Resp: 9379

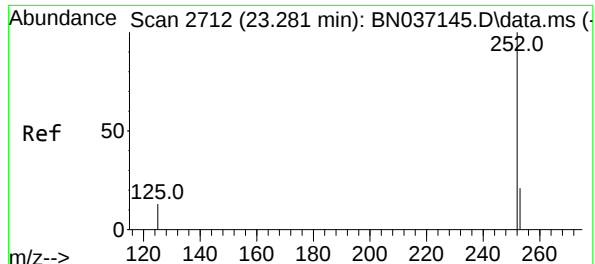
Ion Ratio Lower Upper

252 100

253 24.5 22.2 33.4

125 13.5 13.2 19.8





#39

Benzo(a)pyrene

Concen: 0.765 ng

RT: 23.281 min Scan# 21

Delta R.T. -0.000 min

Lab File: BN037146.D

Acq: 03 Jun 2025 13:26

Instrument :

BNA\_N

ClientSampleId :

SSTDIC0.8

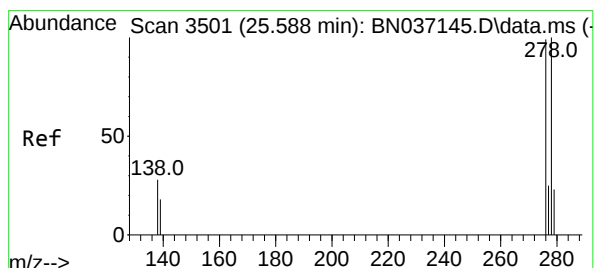
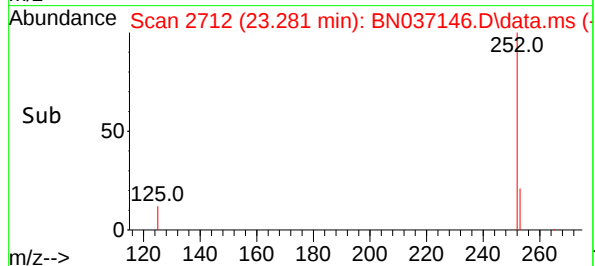
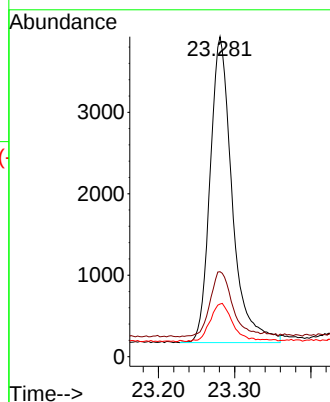
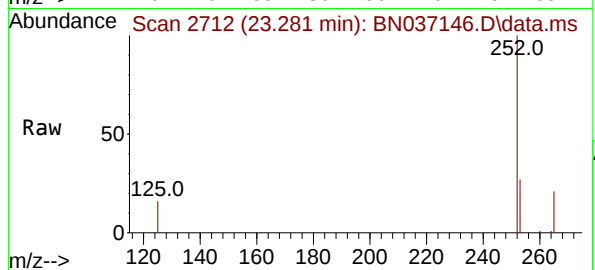
Tgt Ion:252 Resp: 7528

Ion Ratio Lower Upper

252 100

253 26.6 25.0 37.4

125 16.4 17.0 25.6#



#40

Dibenzo(a,h)anthracene

Concen: 0.780 ng

RT: 25.588 min Scan# 3501

Delta R.T. -0.000 min

Lab File: BN037146.D

Acq: 03 Jun 2025 13:26

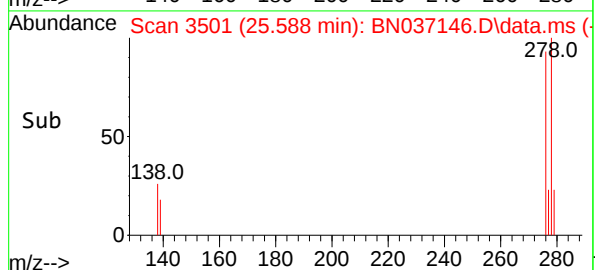
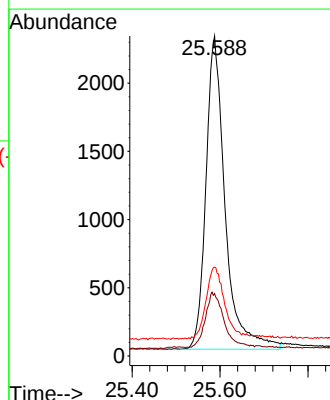
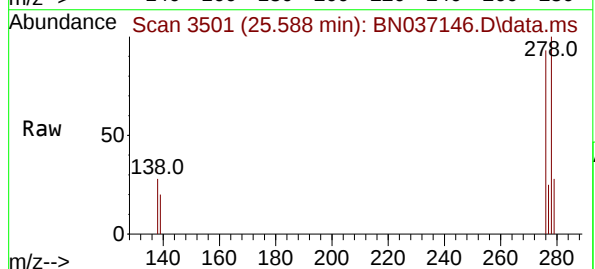
Tgt Ion:278 Resp: 6960

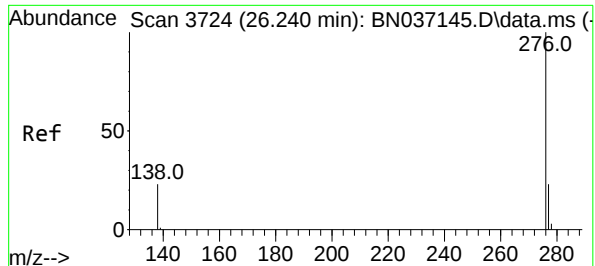
Ion Ratio Lower Upper

278 100

139 19.5 17.6 26.4

279 27.7 26.0 39.0





#41

Benzo(g,h,i)perylene

Concen: 0.778 ng

RT: 26.240 min Scan# 31

Delta R.T. -0.000 min

Lab File: BN037146.D

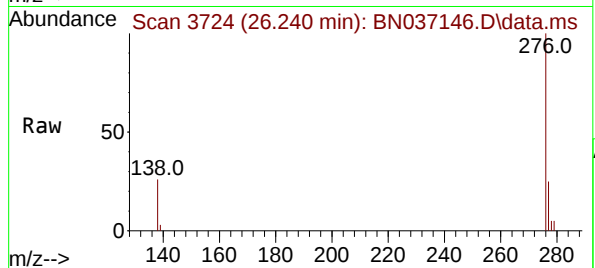
Acq: 03 Jun 2025 13:26

Instrument :

BNA\_N

ClientSampleId :

SSTDICC0.8



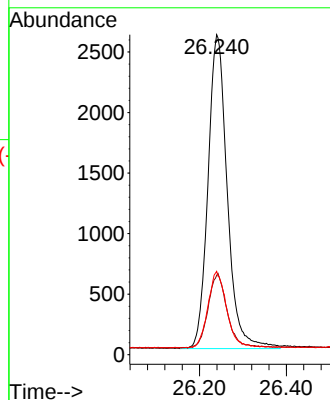
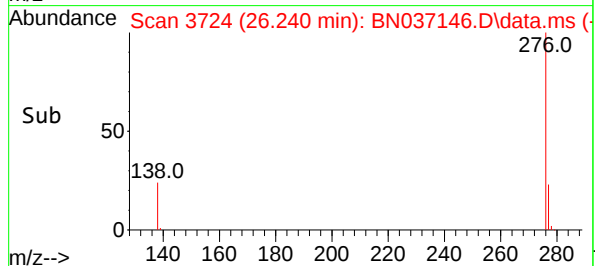
Tgt Ion:276 Resp: 7980

Ion Ratio Lower Upper

276 100

277 24.8 20.9 31.3

138 26.1 20.8 31.2



Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN060325\  
 Data File : BN037147.D  
 Acq On : 03 Jun 2025 14:02  
 Operator : RC/JU  
 Sample : SSTDICC1.6  
 Misc :  
 ALS Vial : 6 Sample Multiplier: 1

Instrument :  
 BNA\_N  
 ClientSampleId :  
 SSTDICC1.6

Quant Time: Jun 04 01:42:52 2025  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\8270-SIM-BN060325.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Wed Jun 04 01:40:18 2025  
 Response via : Initial Calibration

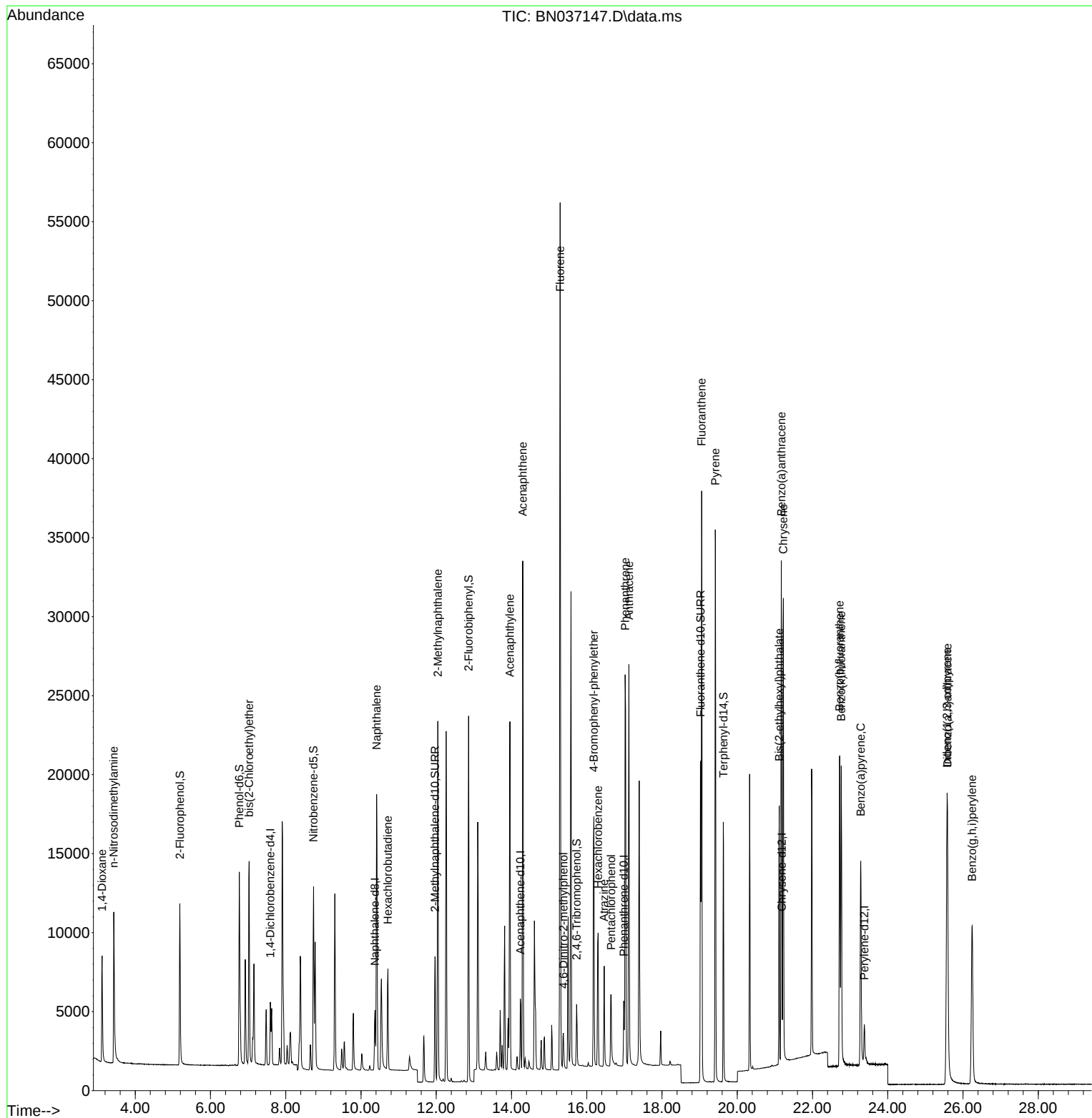
| Compound                      | R.T.   | QIon | Response | Conc  | Units | Dev(Min) |
|-------------------------------|--------|------|----------|-------|-------|----------|
| Internal Standards            |        |      |          |       |       |          |
| 1) 1,4-Dichlorobenzene-d4     | 7.589  | 152  | 1779     | 0.400 | ng    | 0.00     |
| 7) Naphthalene-d8             | 10.372 | 136  | 4585     | 0.400 | ng    | 0.00     |
| 13) Acenaphthene-d10          | 14.235 | 164  | 2603     | 0.400 | ng    | 0.00     |
| 19) Phenanthrene-d10          | 16.984 | 188  | 5057     | 0.400 | ng    | 0.00     |
| 29) Chrysene-d12              | 21.189 | 240  | 3873     | 0.400 | ng    | 0.00     |
| 35) Perylene-d12              | 23.377 | 264  | 3320     | 0.400 | ng    | 0.00     |
| System Monitoring Compounds   |        |      |          |       |       |          |
| 4) 2-Fluorophenol             | 5.184  | 112  | 7371     | 1.676 | ng    | 0.00     |
| 5) Phenol-d6                  | 6.766  | 99   | 9203     | 1.726 | ng    | 0.00     |
| 8) Nitrobenzene-d5            | 8.739  | 82   | 8338     | 1.724 | ng    | 0.00     |
| 11) 2-Methylnaphthalene-d10   | 11.966 | 152  | 10971    | 1.719 | ng    | 0.00     |
| 14) 2,4,6-Tribromophenol      | 15.730 | 330  | 1930     | 1.842 | ng    | -0.01    |
| 15) 2-Fluorobiphenyl          | 12.858 | 172  | 18891    | 1.702 | ng    | 0.00     |
| 27) Fluoranthene-d10          | 19.026 | 212  | 22095    | 1.720 | ng    | 0.00     |
| 31) Terphenyl-d14             | 19.630 | 244  | 15589    | 1.710 | ng    | 0.00     |
| Target Compounds              |        |      |          |       |       |          |
| 2) 1,4-Dioxane                | 3.119  | 88   | 3745     | 1.579 | ng    | 97       |
| 3) n-Nitrosodimethylamine     | 3.429  | 42   | 8276     | 1.738 | ng    | # 97     |
| 6) bis(2-Chloroethyl)ether    | 7.026  | 93   | 8706     | 1.711 | ng    | 98       |
| 9) Naphthalene                | 10.415 | 128  | 22289    | 1.685 | ng    | 97       |
| 10) Hexachlorobutadiene       | 10.714 | 225  | 4883     | 1.694 | ng    | # 99     |
| 12) 2-Methylnaphthalene       | 12.042 | 142  | 14834    | 1.750 | ng    | 97       |
| 16) Acenaphthylene            | 13.957 | 152  | 21986    | 1.723 | ng    | 100      |
| 17) Acenaphthene              | 14.299 | 154  | 14266    | 1.722 | ng    | 99       |
| 18) Fluorene                  | 15.293 | 166  | 18976    | 1.742 | ng    | 100      |
| 20) 4,6-Dinitro-2-methylph... | 15.378 | 198  | 1819     | 1.502 | ng    | # 41     |
| 21) 4-Bromophenyl-phenylether | 16.189 | 248  | 5692     | 1.717 | ng    | 90       |
| 22) Hexachlorobenzene         | 16.301 | 284  | 6093     | 1.703 | ng    | 99       |
| 23) Atrazine                  | 16.463 | 200  | 4865     | 1.778 | ng    | # 88     |
| 24) Pentachlorophenol         | 16.649 | 266  | 2828     | 1.535 | ng    | 96       |
| 25) Phenanthrene              | 17.021 | 178  | 28034    | 1.711 | ng    | 100      |
| 26) Anthracene                | 17.120 | 178  | 26183    | 1.751 | ng    | 99       |
| 28) Fluoranthene              | 19.054 | 202  | 31942    | 1.765 | ng    | 100      |
| 30) Pyrene                    | 19.416 | 202  | 31728    | 1.678 | ng    | 100      |
| 32) Benzo(a)anthracene        | 21.171 | 228  | 24513    | 1.748 | ng    | 99       |
| 33) Chrysene                  | 21.224 | 228  | 26306    | 1.685 | ng    | 98       |
| 34) Bis(2-ethylhexyl)phtha... | 21.117 | 149  | 14807    | 1.674 | ng    | 100      |
| 36) Indeno(1,2,3-cd)pyrene    | 25.573 | 276  | 22504    | 1.704 | ng    | 98       |
| 37) Benzo(b)fluoranthene      | 22.722 | 252  | 23418    | 1.747 | ng    | # 90     |
| 38) Benzo(k)fluoranthene      | 22.763 | 252  | 23602    | 1.725 | ng    | # 90     |
| 39) Benzo(a)pyrene            | 23.281 | 252  | 19265    | 1.716 | ng    | # 86     |
| 40) Dibenzo(a,h)anthracene    | 25.588 | 278  | 17700    | 1.738 | ng    | # 90     |
| 41) Benzo(g,h,i)perylene      | 26.243 | 276  | 19619    | 1.677 | ng    | 97       |

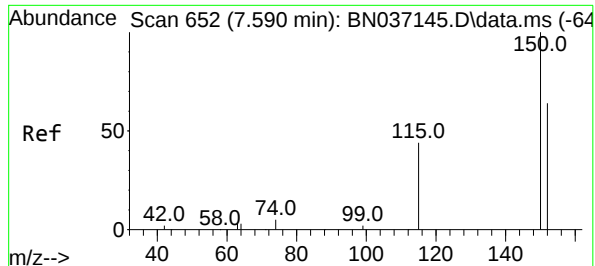
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN060325\  
Data File : BN037147.D  
Acq On : 03 Jun 2025 14:02  
Operator : RC/JU  
Sample : SSTDICC1.6  
Misc :  
ALS Vial : 6 Sample Multiplier: 1

Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC1.6

Quant Time: Jun 04 01:42:52 2025  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\8270-SIM-BN060325.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Wed Jun 04 01:40:18 2025  
Response via : Initial Calibration

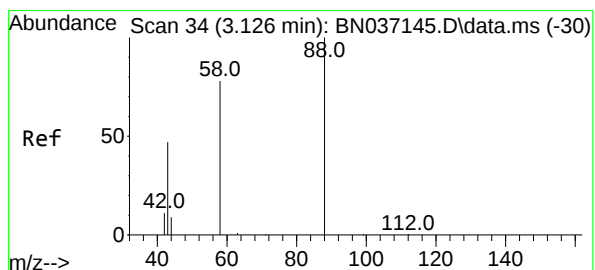
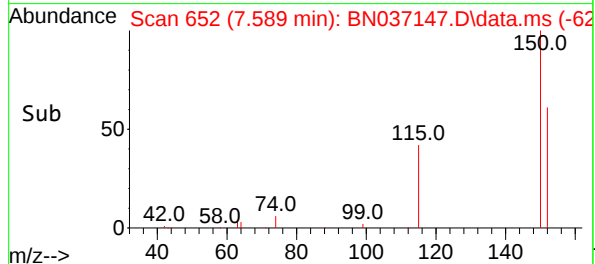
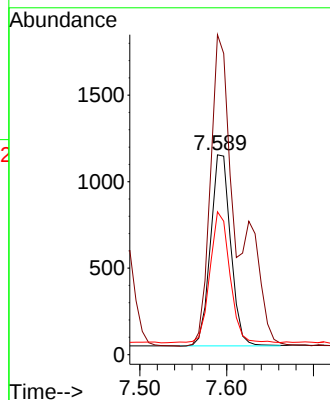
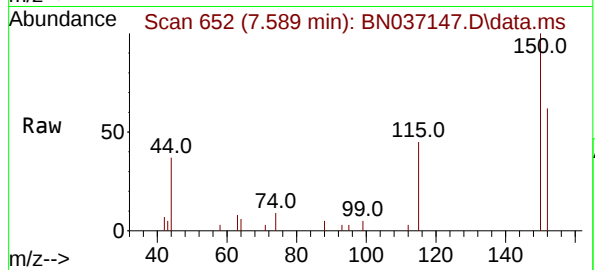




#1  
1,4-Dichlorobenzene-d4  
Concen: 0.400 ng  
RT: 7.589 min Scan# 61  
Delta R.T. -0.001 min  
Lab File: BN037147.D  
Acq: 03 Jun 2025 14:02

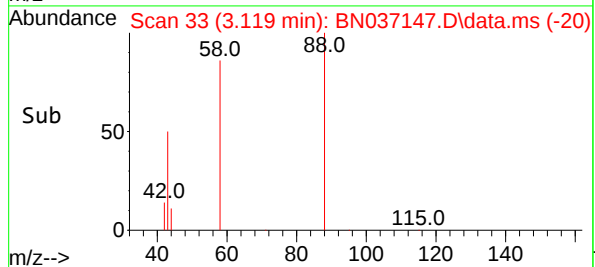
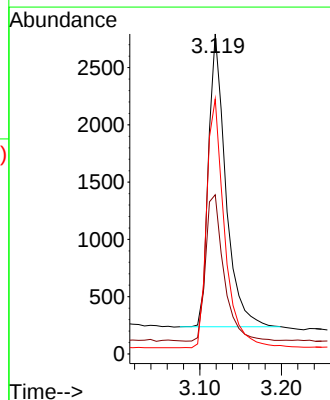
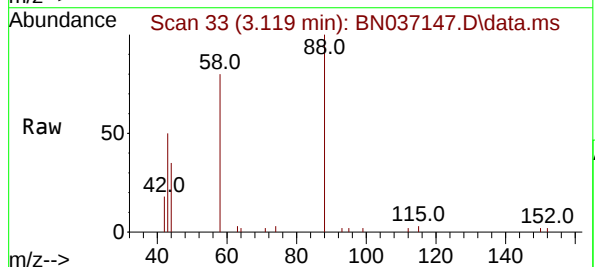
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC1.6

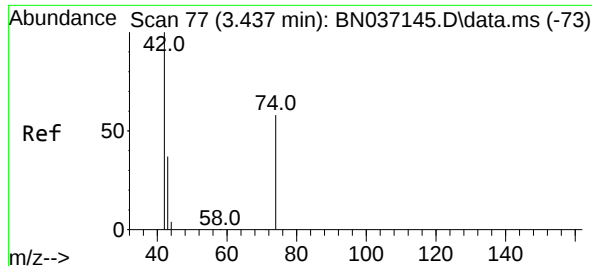
Tgt Ion:152 Resp: 1779  
Ion Ratio Lower Upper  
152 100  
150 160.2 123.2 184.8  
115 71.5 56.6 85.0



#2  
1,4-Dioxane  
Concen: 1.579 ng  
RT: 3.119 min Scan# 33  
Delta R.T. -0.007 min  
Lab File: BN037147.D  
Acq: 03 Jun 2025 14:02

Tgt Ion: 88 Resp: 3745  
Ion Ratio Lower Upper  
88 100  
43 53.6 43.5 65.3  
58 88.6 67.7 101.5

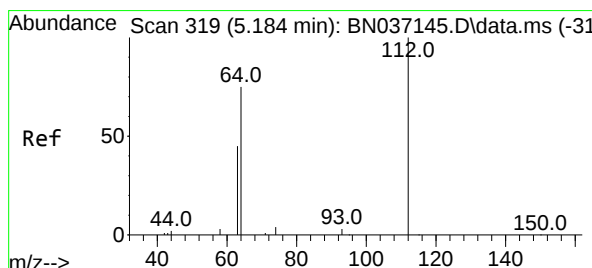
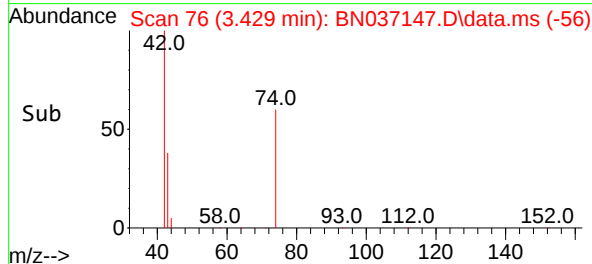
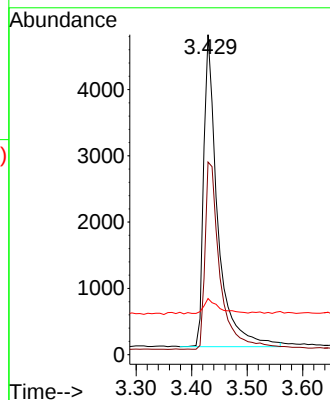
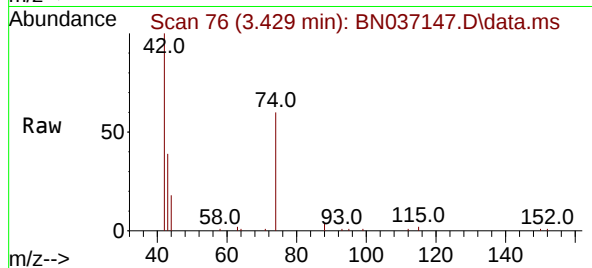




#3  
n-Nitrosodimethylamine  
Concen: 1.738 ng  
RT: 3.429 min Scan# 70  
Delta R.T. -0.007 min  
Lab File: BN037147.D  
Acq: 03 Jun 2025 14:02

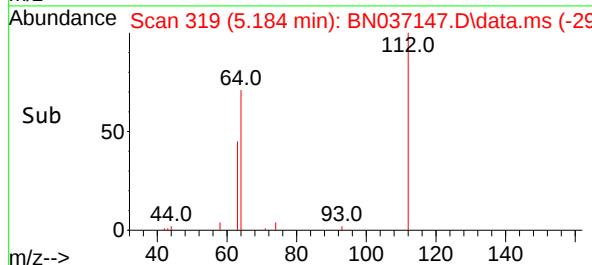
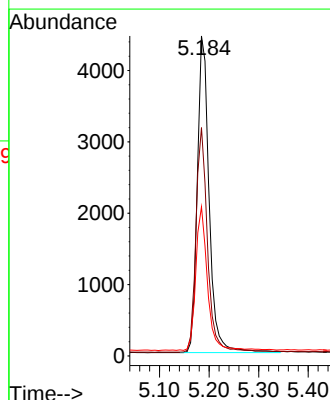
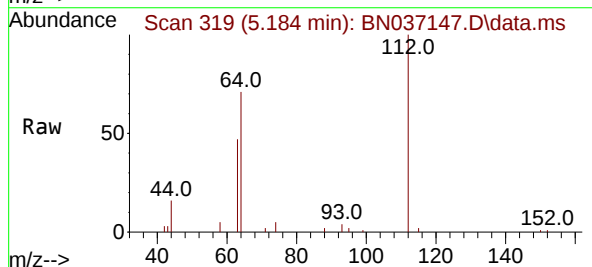
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC1.6

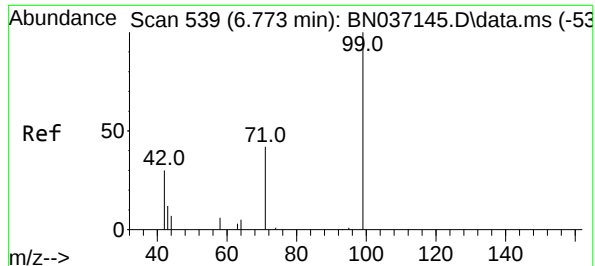
Tgt Ion: 42 Resp: 8276  
Ion Ratio Lower Upper  
42 100  
74 64.1 53.0 79.4  
44 5.2 5.9 8.9#



#4  
2-Fluorophenol  
Concen: 1.676 ng  
RT: 5.184 min Scan# 319  
Delta R.T. -0.000 min  
Lab File: BN037147.D  
Acq: 03 Jun 2025 14:02

Tgt Ion: 112 Resp: 7371  
Ion Ratio Lower Upper  
112 100  
64 69.5 56.3 84.5  
63 44.8 36.2 54.4

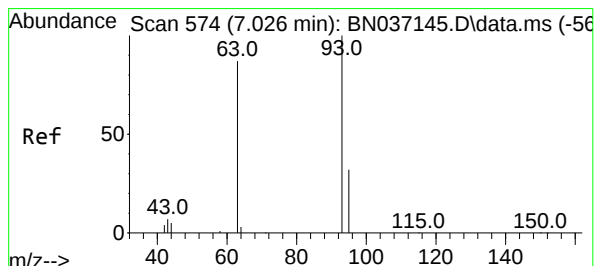
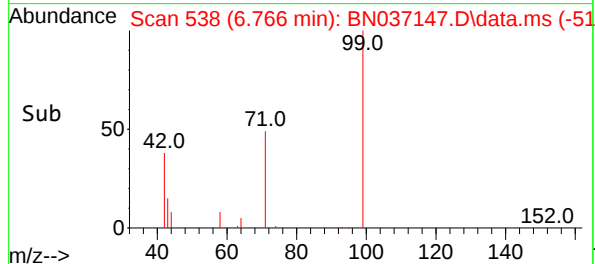
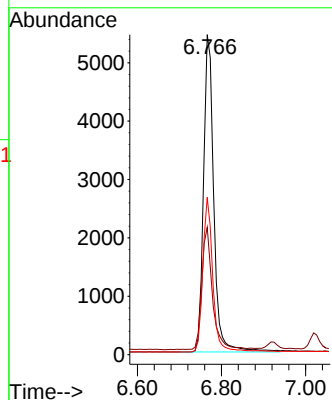
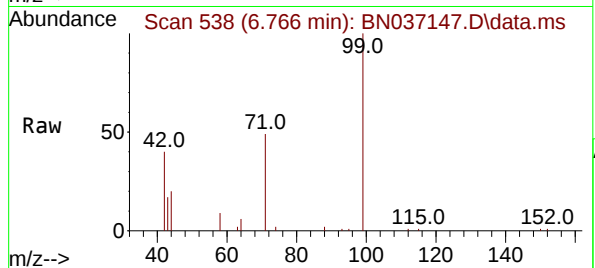




#5  
Phenol-d6  
Concen: 1.726 ng  
RT: 6.766 min Scan# 51  
Delta R.T. -0.007 min  
Lab File: BN037147.D  
Acq: 03 Jun 2025 14:02

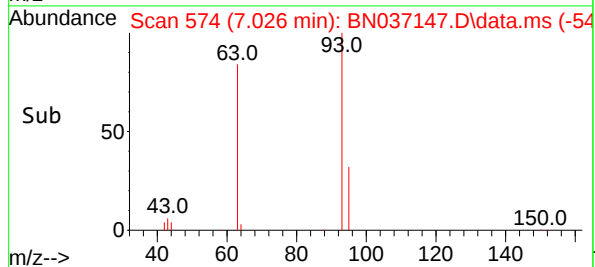
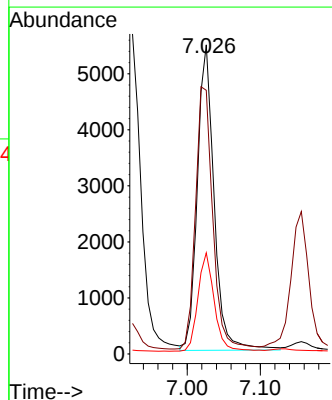
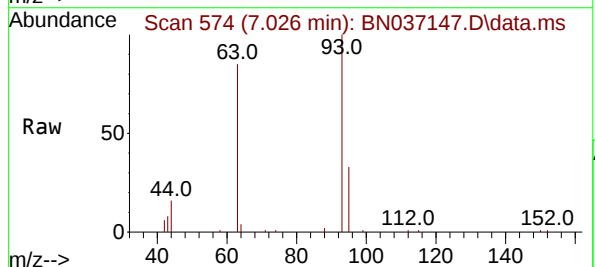
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC1.6

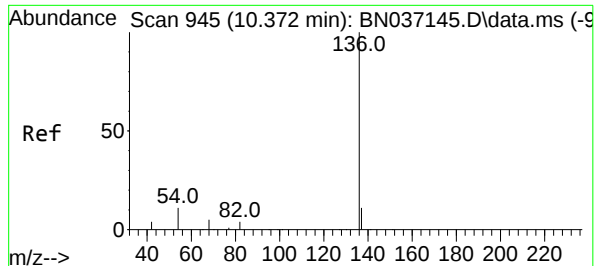
Tgt Ion: 99 Resp: 9203  
Ion Ratio Lower Upper  
99 100  
42 39.7 31.3 46.9  
71 47.7 38.2 57.2



#6  
bis(2-Chloroethyl)ether  
Concen: 1.711 ng  
RT: 7.026 min Scan# 574  
Delta R.T. -0.000 min  
Lab File: BN037147.D  
Acq: 03 Jun 2025 14:02

Tgt Ion: 93 Resp: 8706  
Ion Ratio Lower Upper  
93 100  
63 88.1 68.6 103.0  
95 31.3 24.3 36.5

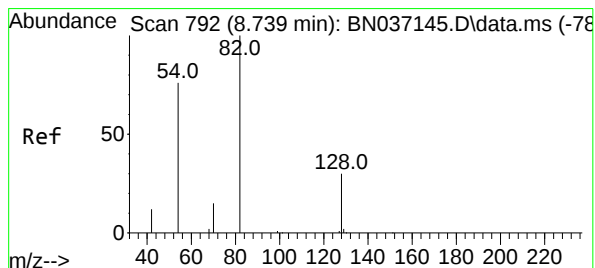
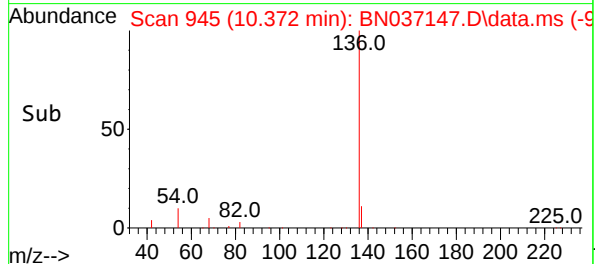
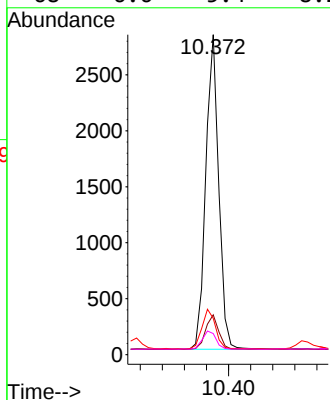
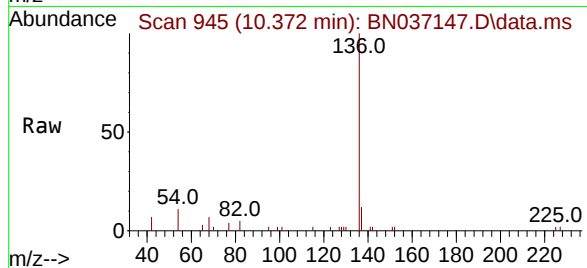




#7  
Naphthalene-d8  
Concen: 0.400 ng  
RT: 10.372 min Scan# 945  
Delta R.T. -0.000 min  
Lab File: BN037147.D  
Acq: 03 Jun 2025 14:02

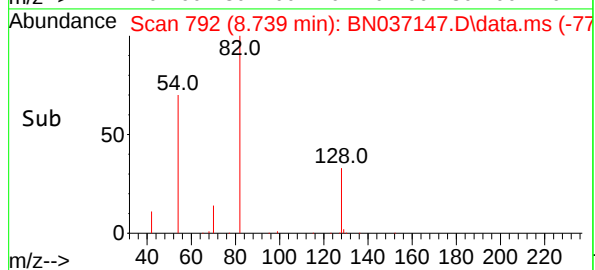
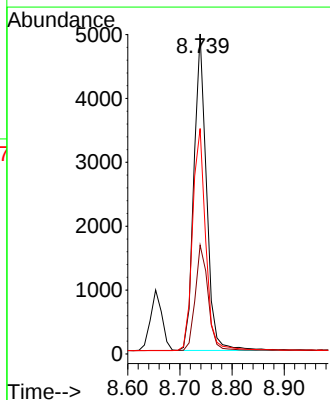
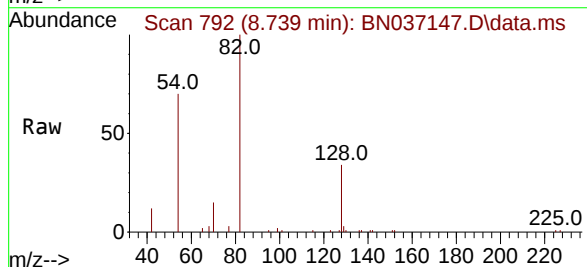
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC1.6

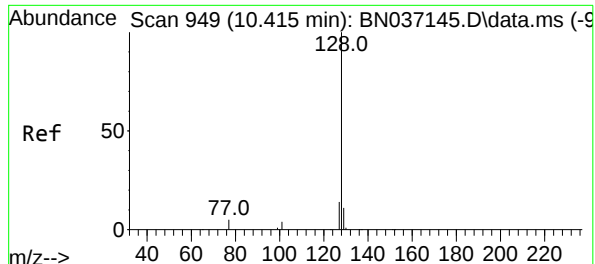
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 136   | Resp: | 4585  |
| Ion      | Ratio | Lower | Upper |
| 136      | 100   |       |       |
| 137      | 12.5  | 9.7   | 14.5  |
| 54       | 11.3  | 9.7   | 14.5  |
| 68       | 6.6   | 5.4   | 8.2   |



#8  
Nitrobenzene-d5  
Concen: 1.724 ng  
RT: 8.739 min Scan# 792  
Delta R.T. -0.000 min  
Lab File: BN037147.D  
Acq: 03 Jun 2025 14:02

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 82    | Resp: | 8338  |
| Ion      | Ratio | Lower | Upper |
| 82       | 100   |       |       |
| 128      | 34.0  | 26.9  | 40.3  |
| 54       | 70.4  | 61.4  | 92.2  |





#9

Naphthalene

Concen: 1.685 ng

RT: 10.415 min Scan# 949

Delta R.T. -0.000 min

Lab File: BN037147.D

Acq: 03 Jun 2025 14:02

Instrument :

BNA\_N

ClientSampleId :

SSTDICC1.6

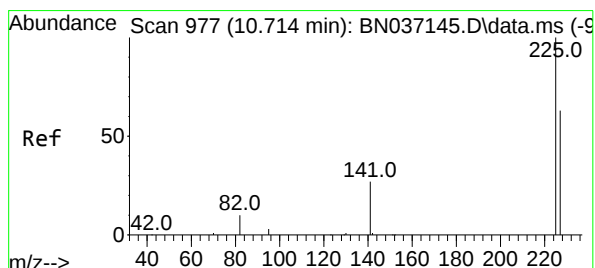
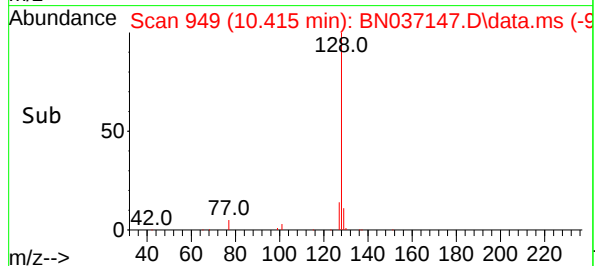
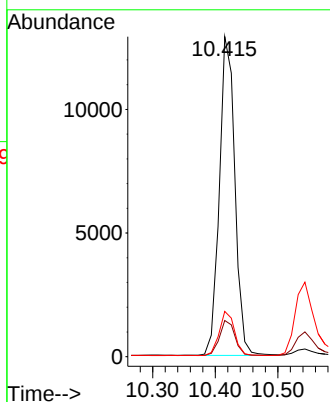
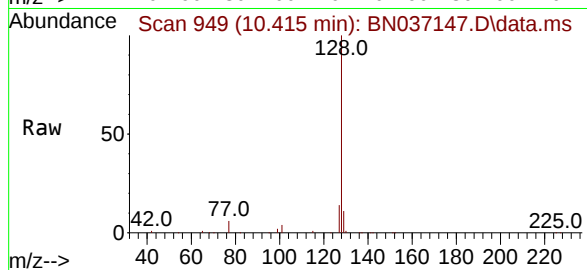
Tgt Ion:128 Resp: 22289

Ion Ratio Lower Upper

128 100

129 11.3 9.8 14.8

127 14.1 12.3 18.5



#10

Hexachlorobutadiene

Concen: 1.694 ng

RT: 10.714 min Scan# 977

Delta R.T. -0.000 min

Lab File: BN037147.D

Acq: 03 Jun 2025 14:02

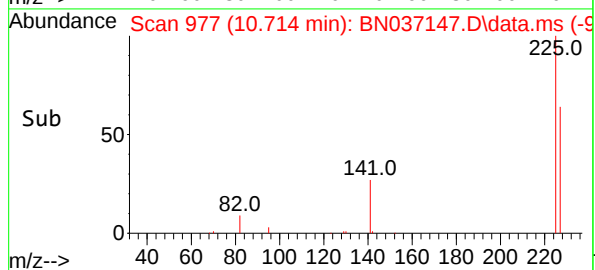
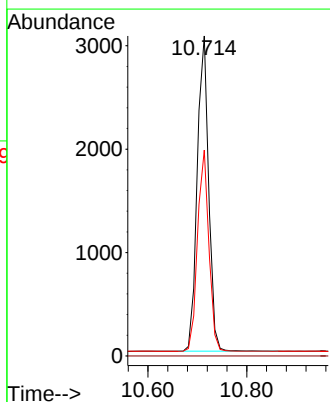
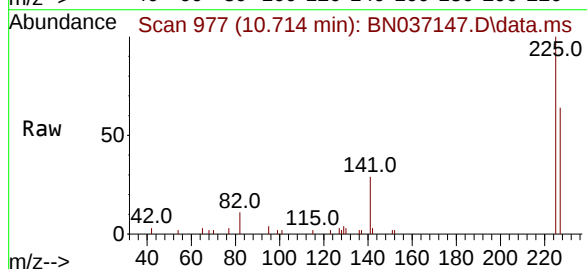
Tgt Ion:225 Resp: 4883

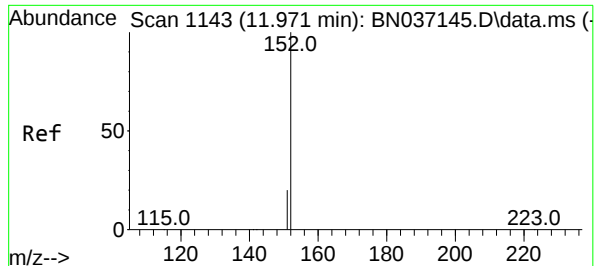
Ion Ratio Lower Upper

225 100

223 0.0 0.0 0.0

227 63.4 50.3 75.5

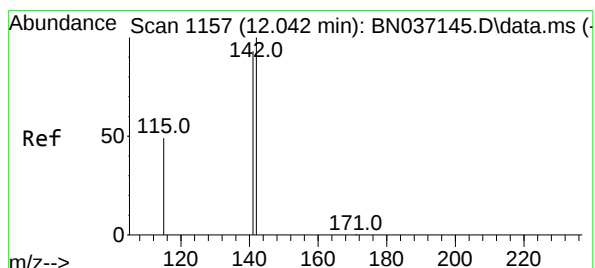
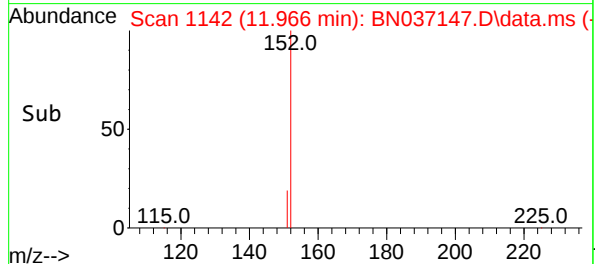
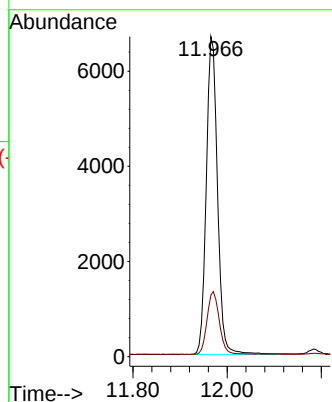
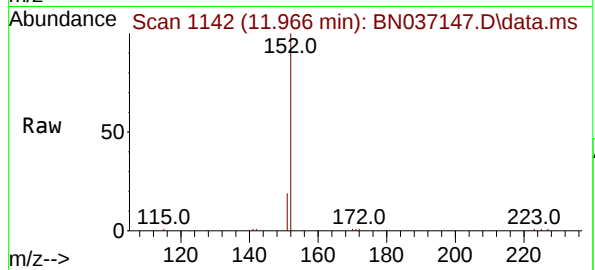




#11  
2-Methylnaphthalene-d10  
Concen: 1.719 ng  
RT: 11.966 min Scan# 1142  
Delta R.T. -0.005 min  
Lab File: BN037147.D  
Acq: 03 Jun 2025 14:02

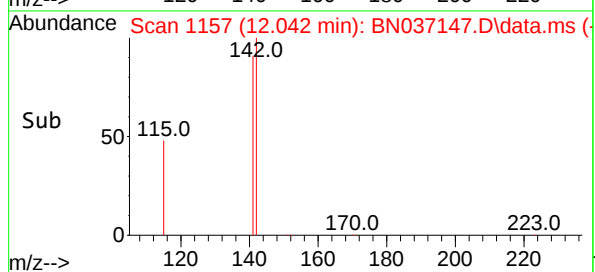
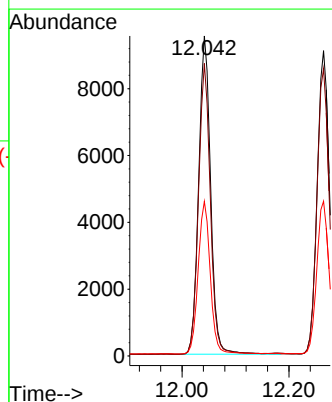
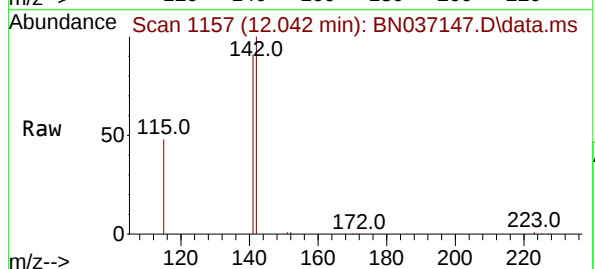
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC1.6

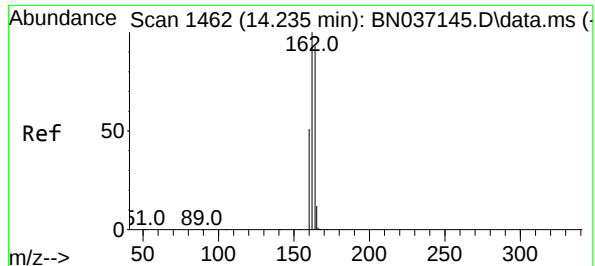
Tgt Ion:152 Resp: 10971  
Ion Ratio Lower Upper  
152 100  
151 21.7 17.1 25.7



#12  
2-Methylnaphthalene  
Concen: 1.750 ng  
RT: 12.042 min Scan# 1157  
Delta R.T. -0.000 min  
Lab File: BN037147.D  
Acq: 03 Jun 2025 14:02

Tgt Ion:142 Resp: 14834  
Ion Ratio Lower Upper  
142 100  
141 91.4 74.6 111.8  
115 48.3 41.0 61.4

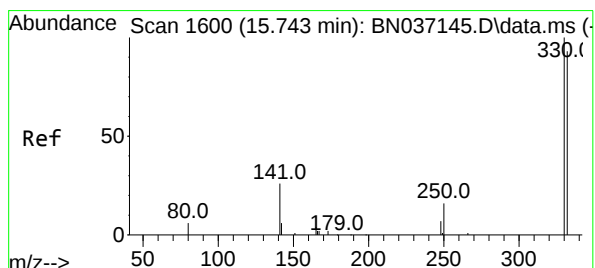
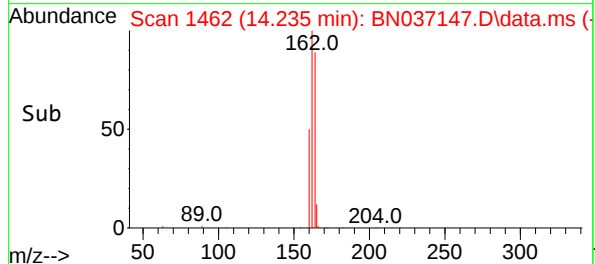
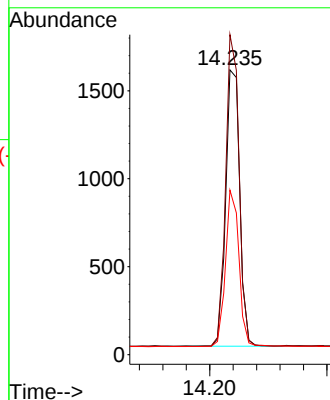
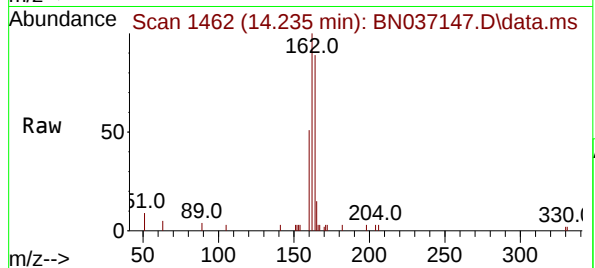




#13  
Acenaphthene-d10  
Concen: 0.400 ng  
RT: 14.235 min Scan# 1462  
Delta R.T. -0.000 min  
Lab File: BN037147.D  
Acq: 03 Jun 2025 14:02

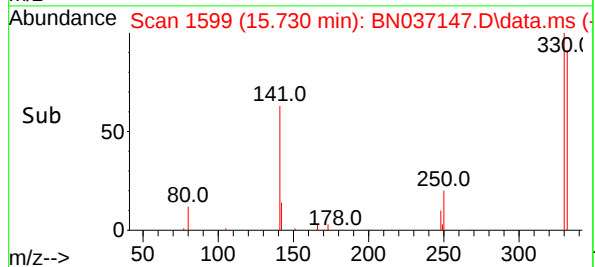
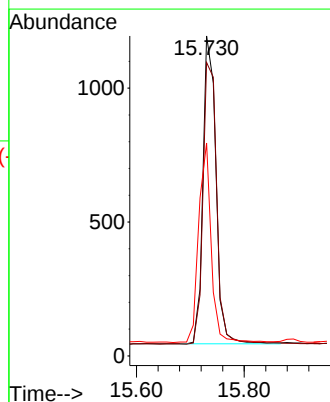
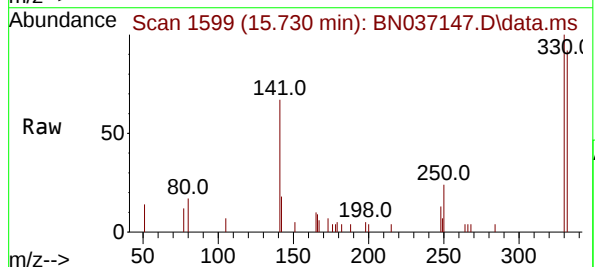
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC1.6

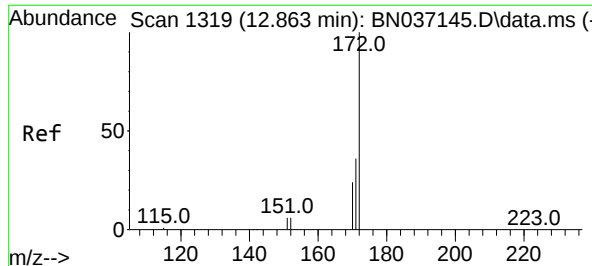
Tgt Ion:164 Resp: 2603  
Ion Ratio Lower Upper  
164 100  
162 112.4 85.5 128.3  
160 57.8 44.6 67.0



#14  
2,4,6-Tribromophenol  
Concen: 1.842 ng  
RT: 15.730 min Scan# 1599  
Delta R.T. -0.012 min  
Lab File: BN037147.D  
Acq: 03 Jun 2025 14:02

Tgt Ion:330 Resp: 1930  
Ion Ratio Lower Upper  
330 100  
332 97.3 77.1 115.7  
141 62.6 46.4 69.6





#15

2-Fluorobiphenyl

Concen: 1.702 ng

RT: 12.858 min Scan# 1318

Delta R.T. -0.005 min

Lab File: BN037147.D

Acq: 03 Jun 2025 14:02

Instrument :

BNA\_N

ClientSampleId :

SSTDICC1.6

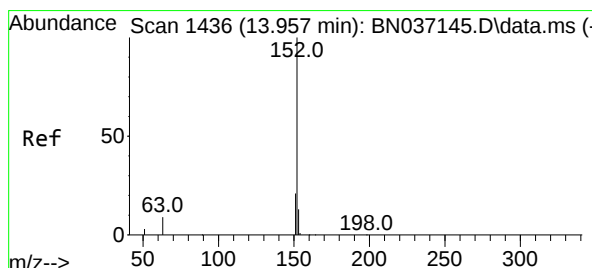
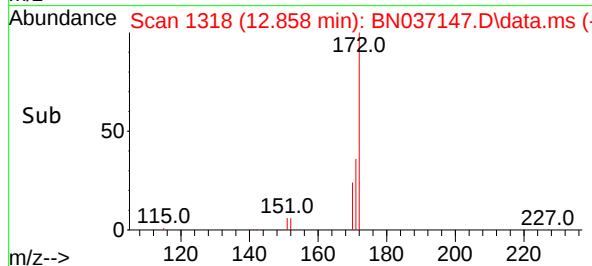
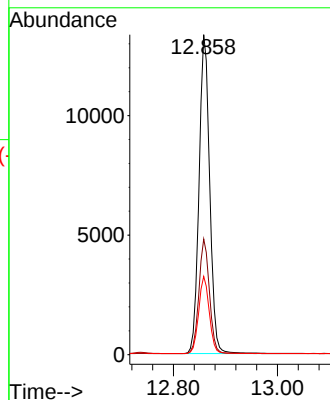
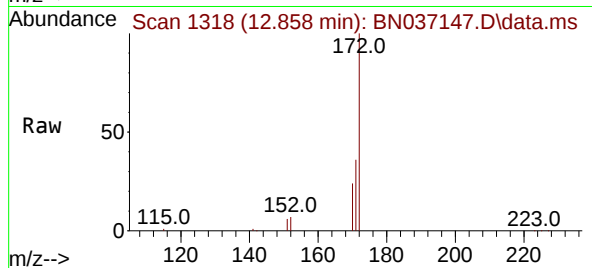
Tgt Ion:172 Resp: 18891

Ion Ratio Lower Upper

172 100

171 36.2 29.6 44.4

170 24.5 20.3 30.5



#16

Acenaphthylene

Concen: 1.723 ng

RT: 13.957 min Scan# 1436

Delta R.T. -0.000 min

Lab File: BN037147.D

Acq: 03 Jun 2025 14:02

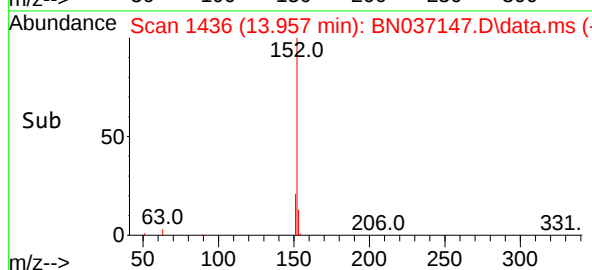
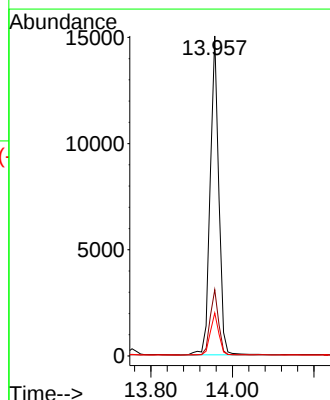
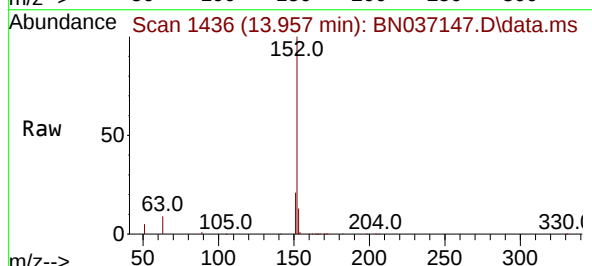
Tgt Ion:152 Resp: 21986

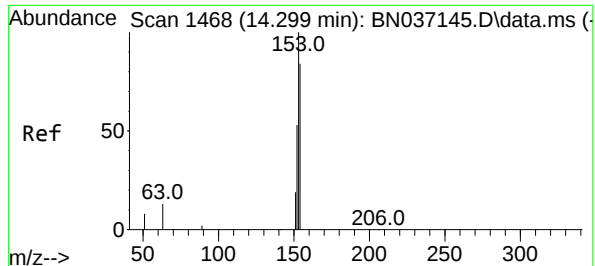
Ion Ratio Lower Upper

152 100

151 20.3 16.3 24.5

153 13.0 10.6 15.8





#17

Acenaphthene

Concen: 1.722 ng

RT: 14.299 min Scan# 1468

Delta R.T. -0.000 min

Lab File: BN037147.D

Acq: 03 Jun 2025 14:02

Instrument :

BNA\_N

ClientSampleId :

SSTDICC1.6

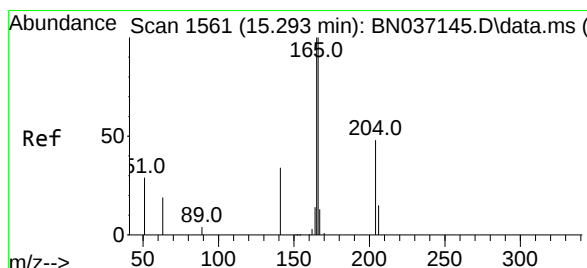
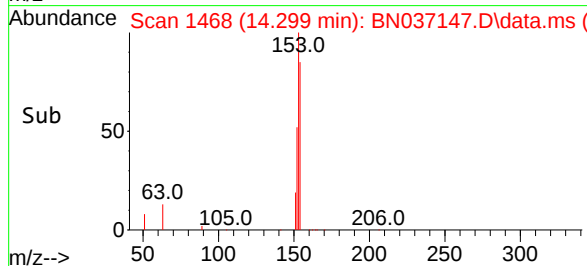
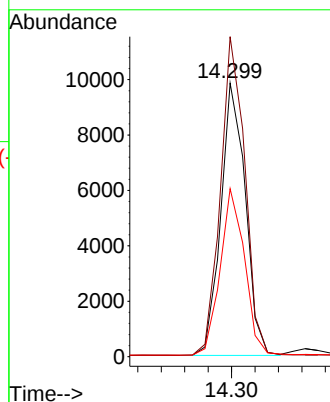
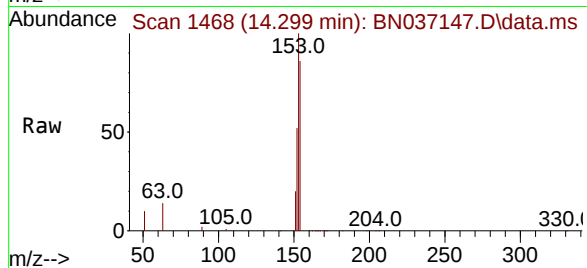
Tgt Ion:154 Resp: 14266

Ion Ratio Lower Upper

154 100

153 117.1 93.8 140.8

152 61.2 50.5 75.7



#18

Fluorene

Concen: 1.742 ng

RT: 15.293 min Scan# 1561

Delta R.T. -0.000 min

Lab File: BN037147.D

Acq: 03 Jun 2025 14:02

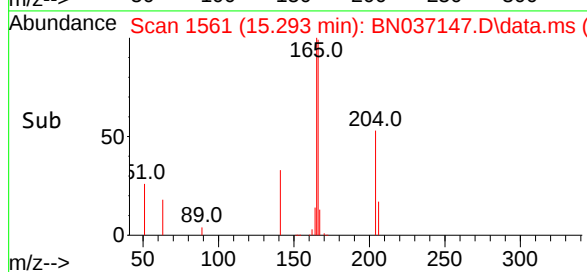
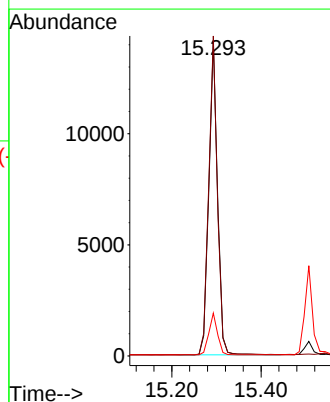
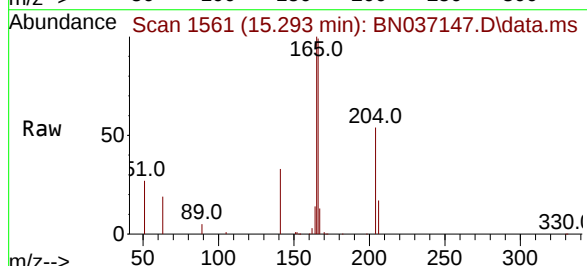
Tgt Ion:166 Resp: 18976

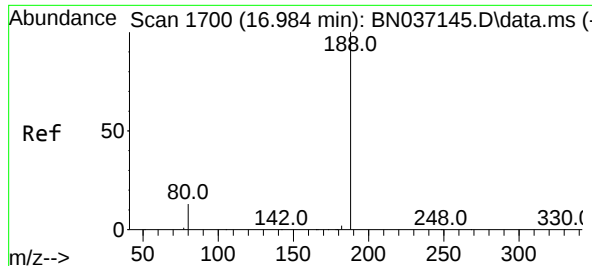
Ion Ratio Lower Upper

166 100

165 101.0 81.1 121.7

167 13.2 10.8 16.2





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 16.984 min Scan# 11

Delta R.T. -0.000 min

Lab File: BN037147.D

Acq: 03 Jun 2025 14:02

Instrument :

BNA\_N

ClientSampleId :

SSTDICC1.6

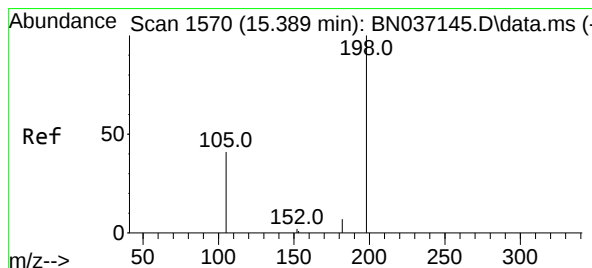
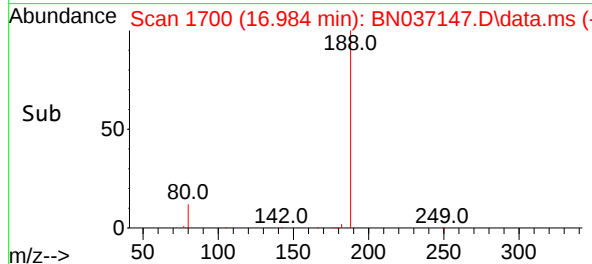
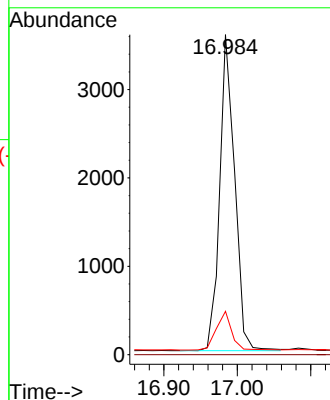
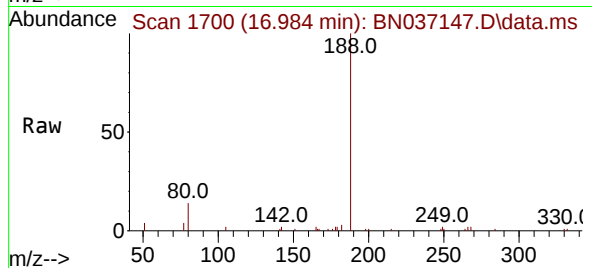
Tgt Ion:188 Resp: 5057

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 13.6 11.3 16.9



#20

4,6-Dinitro-2-methylphenol

Concen: 1.502 ng

RT: 15.378 min Scan# 1569

Delta R.T. -0.011 min

Lab File: BN037147.D

Acq: 03 Jun 2025 14:02

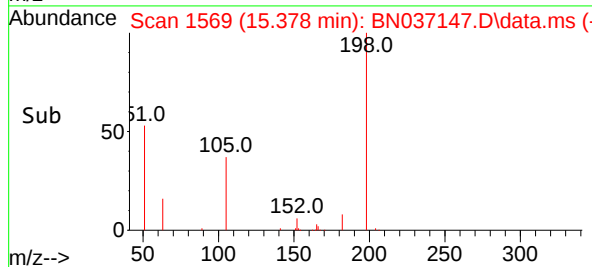
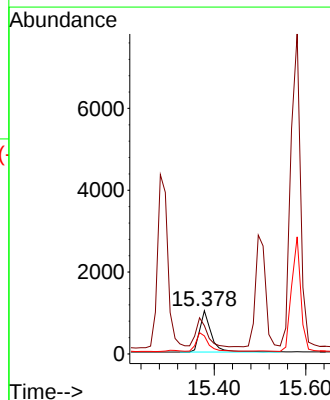
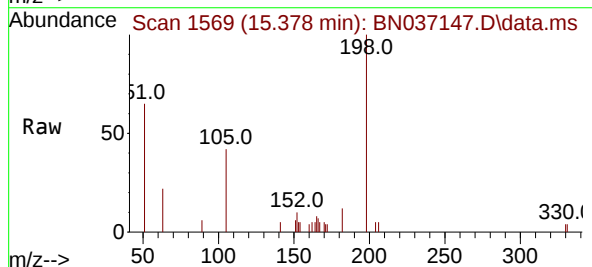
Tgt Ion:198 Resp: 1819

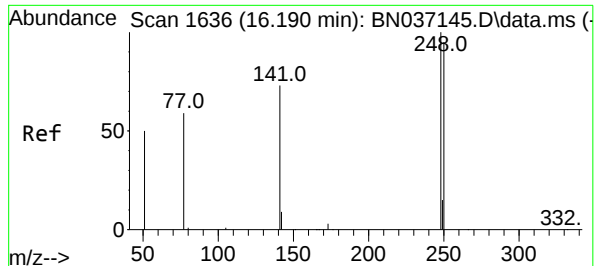
Ion Ratio Lower Upper

198 100

51 65.5 125.2 187.8#

105 42.0 57.1 85.7#

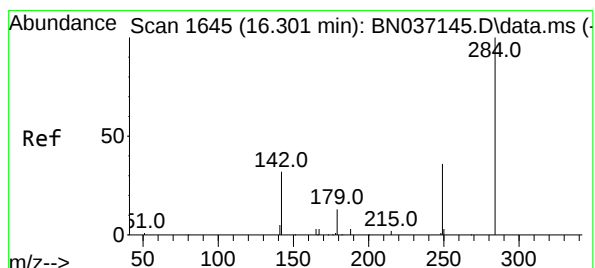
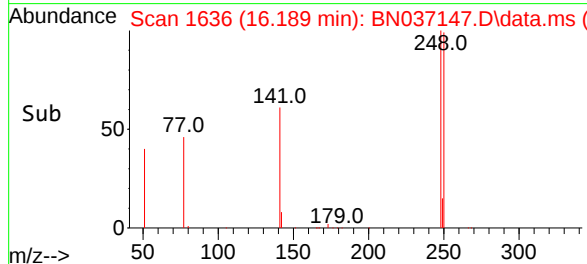
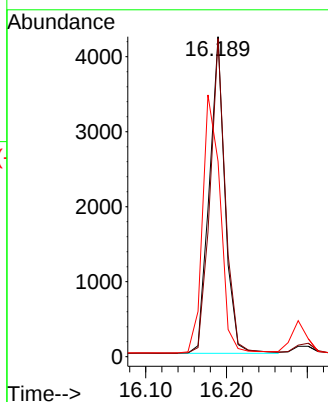
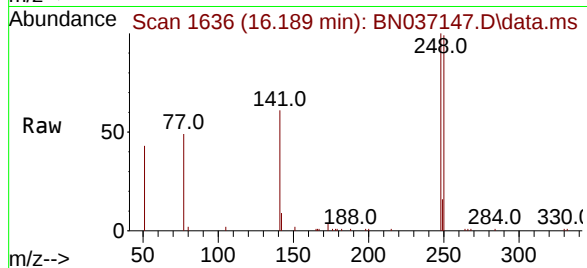




#21  
4-Bromophenyl-phenylether  
Concen: 1.717 ng  
RT: 16.189 min Scan# 1636  
Delta R.T. -0.000 min  
Lab File: BN037147.D  
Acq: 03 Jun 2025 14:02

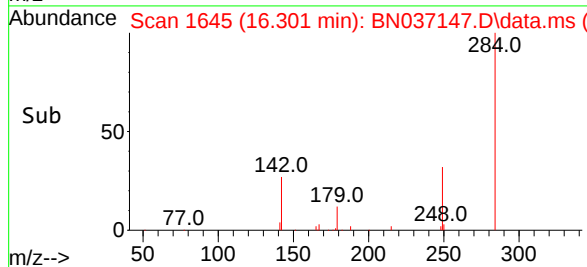
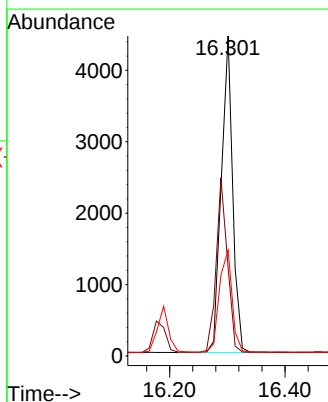
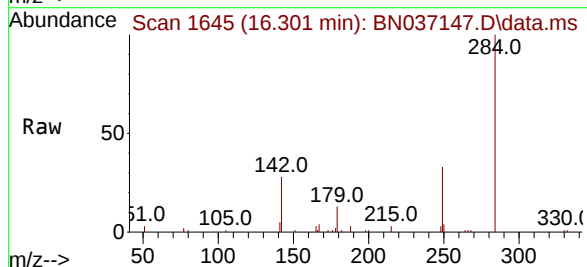
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC1.6

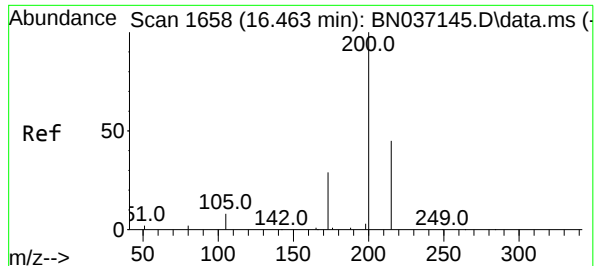
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 248     | 100   |       |       |
| 250     | 99.4  | 76.1  | 114.1 |
| 141     | 61.1  | 60.1  | 90.1  |



#22  
Hexachlorobenzene  
Concen: 1.703 ng  
RT: 16.301 min Scan# 1645  
Delta R.T. -0.000 min  
Lab File: BN037147.D  
Acq: 03 Jun 2025 14:02

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 284     | 100   |       |       |
| 142     | 54.4  | 44.0  | 66.0  |
| 249     | 35.9  | 29.7  | 44.5  |

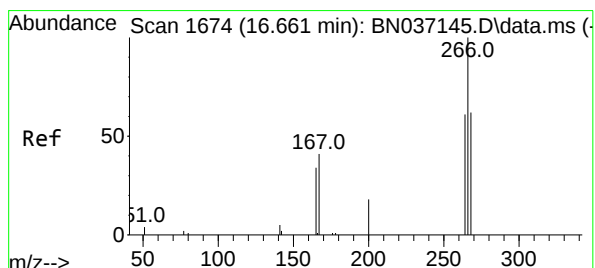
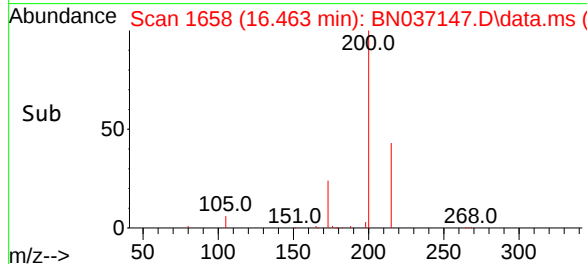
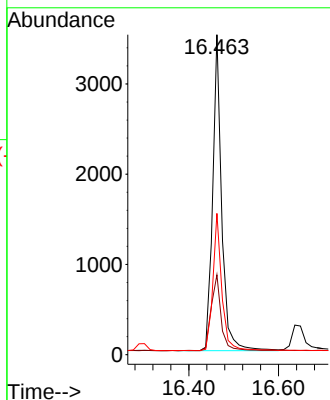
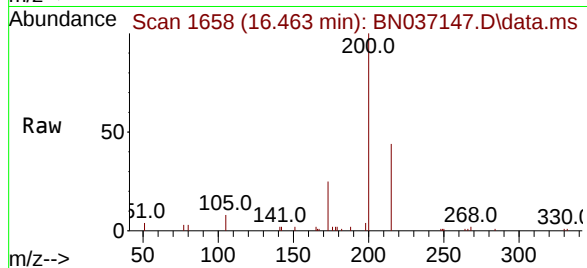




#23  
Atrazine  
Concen: 1.778 ng  
RT: 16.463 min Scan# 1658  
Delta R.T. -0.000 min  
Lab File: BN037147.D  
Acq: 03 Jun 2025 14:02

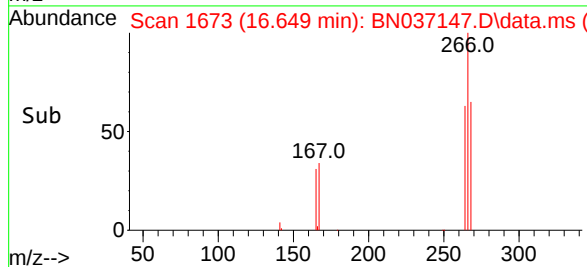
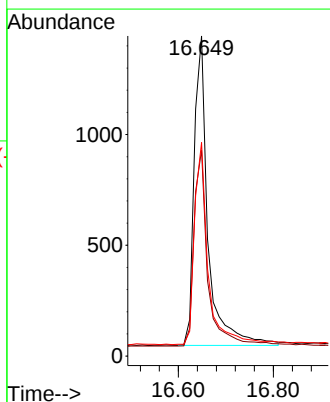
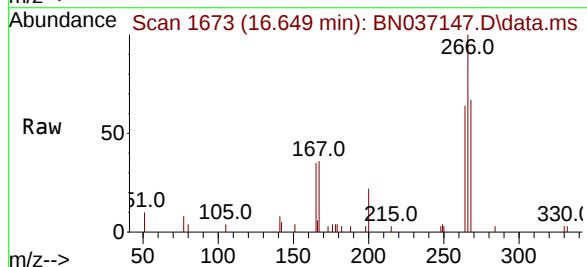
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC1.6

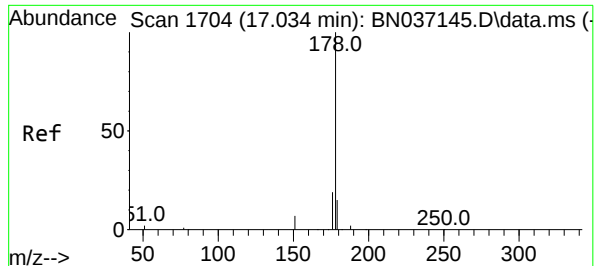
Tgt Ion:200 Resp: 4865  
Ion Ratio Lower Upper  
200 100  
173 25.0 28.1 42.1#  
215 44.1 39.3 58.9



#24  
Pentachlorophenol  
Concen: 1.535 ng  
RT: 16.649 min Scan# 1673  
Delta R.T. -0.012 min  
Lab File: BN037147.D  
Acq: 03 Jun 2025 14:02

Tgt Ion:266 Resp: 2828  
Ion Ratio Lower Upper  
266 100  
264 63.4 49.3 73.9  
268 64.9 49.0 73.4

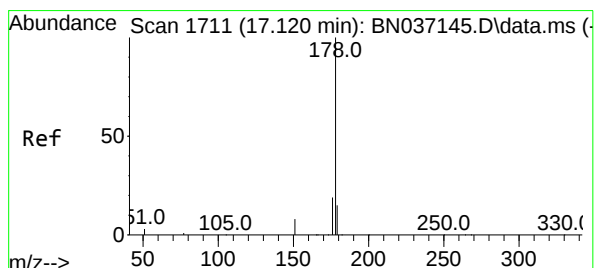
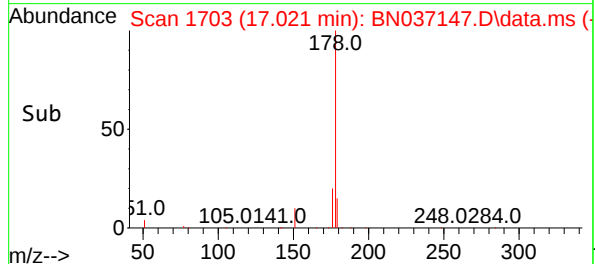
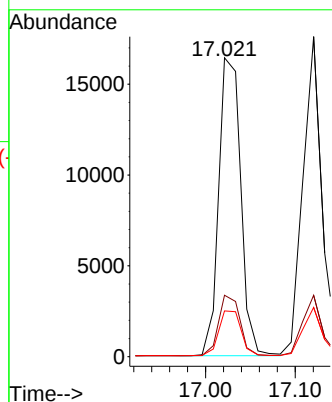
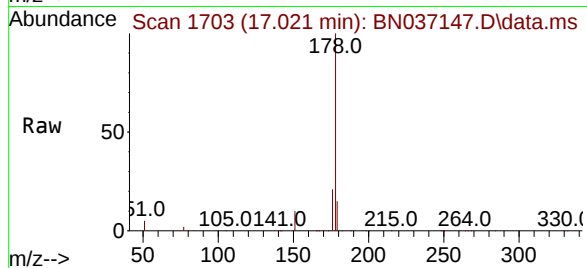




#25  
Phenanthrene  
Concen: 1.711 ng  
RT: 17.021 min Scan# 1703  
Delta R.T. -0.012 min  
Lab File: BN037147.D  
Acq: 03 Jun 2025 14:02

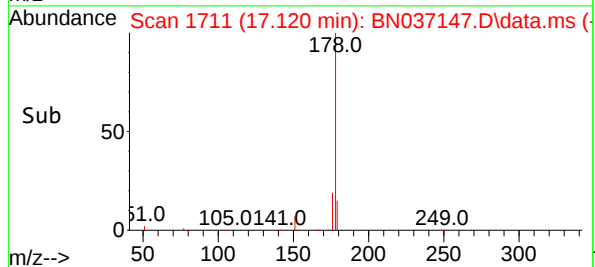
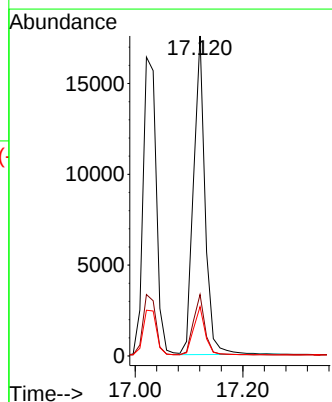
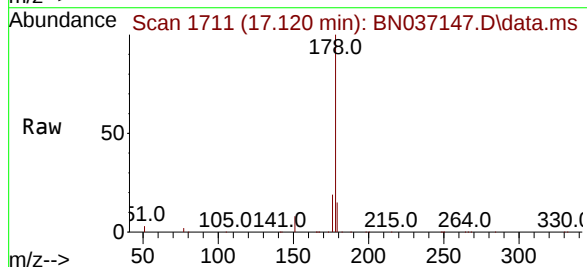
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC1.6

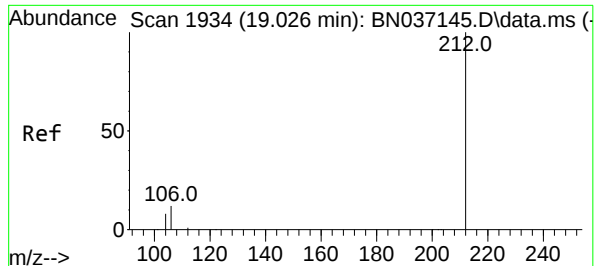
Tgt Ion:178 Resp: 28034  
Ion Ratio Lower Upper  
178 100  
176 19.8 15.7 23.5  
179 15.2 12.3 18.5



#26  
Anthracene  
Concen: 1.751 ng  
RT: 17.120 min Scan# 1711  
Delta R.T. -0.000 min  
Lab File: BN037147.D  
Acq: 03 Jun 2025 14:02

Tgt Ion:178 Resp: 26183  
Ion Ratio Lower Upper  
178 100  
176 19.0 15.2 22.8  
179 15.2 12.9 19.3





#27

Fluoranthene-d10

Concen: 1.720 ng

RT: 19.026 min Scan# 1934

Delta R.T. -0.000 min

Lab File: BN037147.D

Acq: 03 Jun 2025 14:02

Instrument :

BNA\_N

ClientSampleId :

SSTDICC1.6

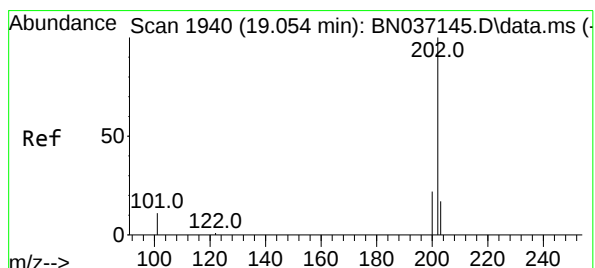
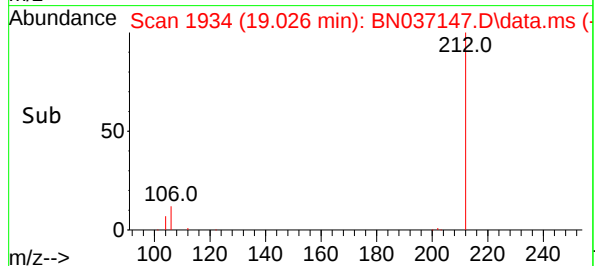
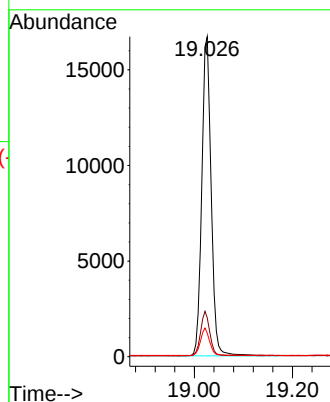
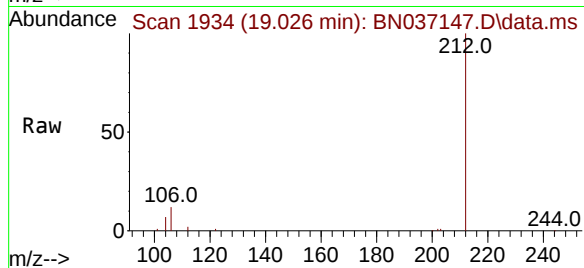
Tgt Ion:212 Resp: 22095

Ion Ratio Lower Upper

212 100

106 13.5 10.6 15.8

104 8.2 6.6 9.8



#28

Fluoranthene

Concen: 1.765 ng

RT: 19.054 min Scan# 1940

Delta R.T. -0.000 min

Lab File: BN037147.D

Acq: 03 Jun 2025 14:02

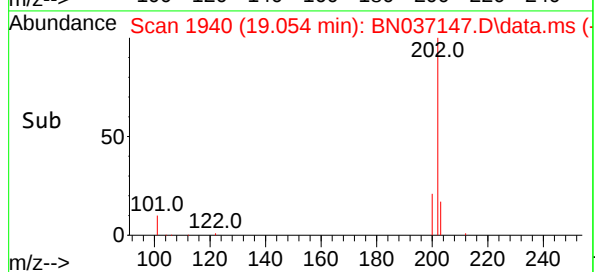
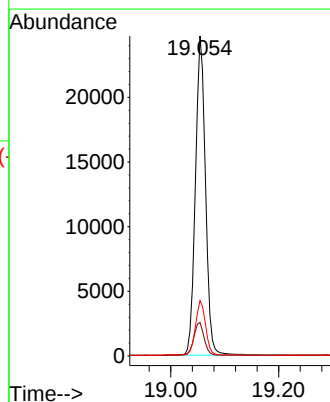
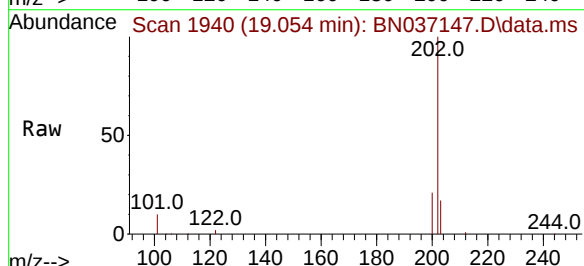
Tgt Ion:202 Resp: 31942

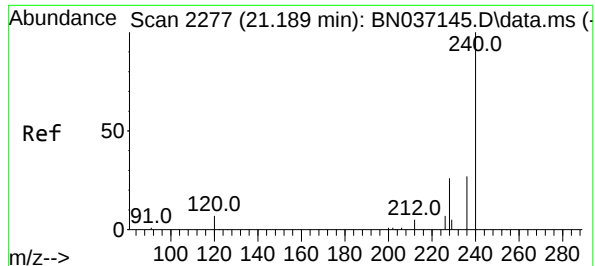
Ion Ratio Lower Upper

202 100

101 10.9 8.7 13.1

203 16.9 13.5 20.3





#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.189 min Scan# 21

Delta R.T. -0.000 min

Lab File: BN037147.D

Acq: 03 Jun 2025 14:02

Instrument :

BNA\_N

ClientSampleId :

SSTDICC1.6

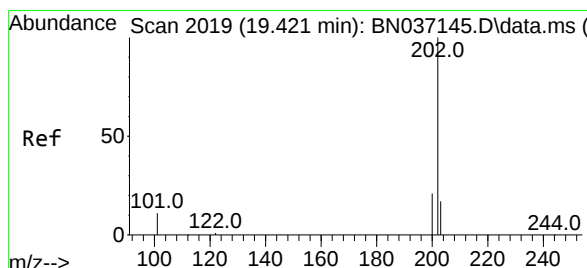
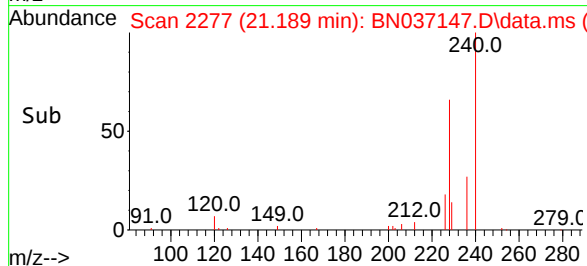
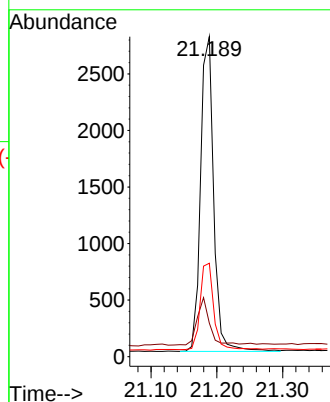
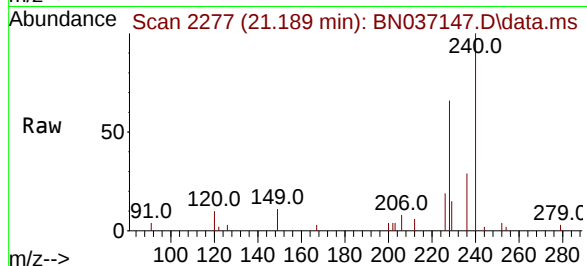
Tgt Ion:240 Resp: 3873

Ion Ratio Lower Upper

240 100

120 10.5 9.0 13.4

236 29.2 23.0 34.4



#30

Pyrene

Concen: 1.678 ng

RT: 19.416 min Scan# 2018

Delta R.T. -0.005 min

Lab File: BN037147.D

Acq: 03 Jun 2025 14:02

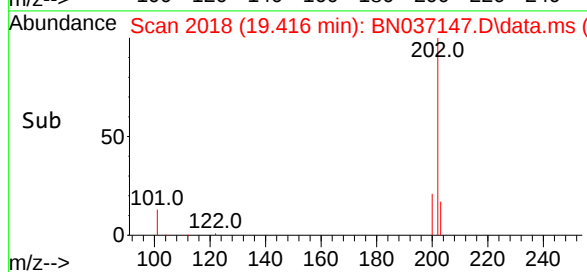
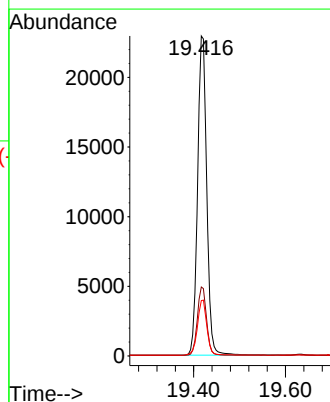
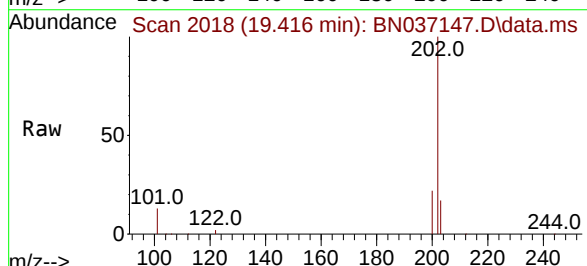
Tgt Ion:202 Resp: 31728

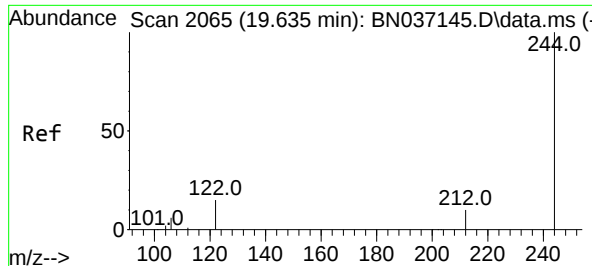
Ion Ratio Lower Upper

202 100

200 21.5 17.0 25.6

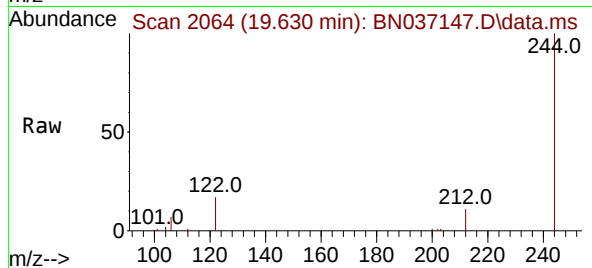
203 17.6 14.2 21.4



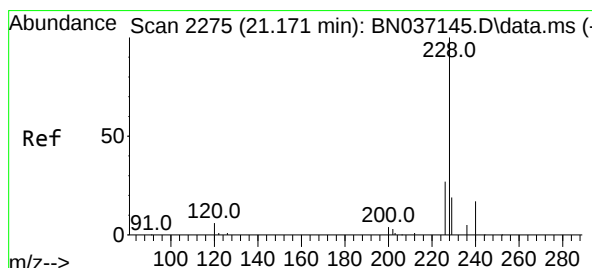
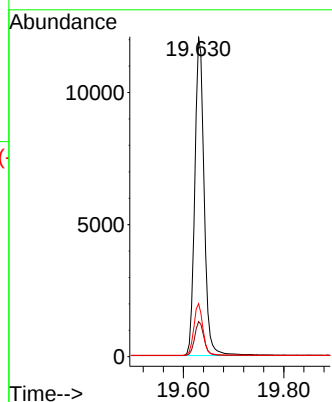
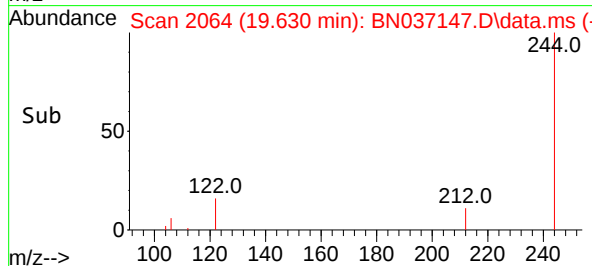


#31  
Terphenyl-d14  
Concen: 1.710 ng  
RT: 19.630 min Scan# 2064  
Delta R.T. -0.005 min  
Lab File: BN037147.D  
Acq: 03 Jun 2025 14:02

Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC1.6

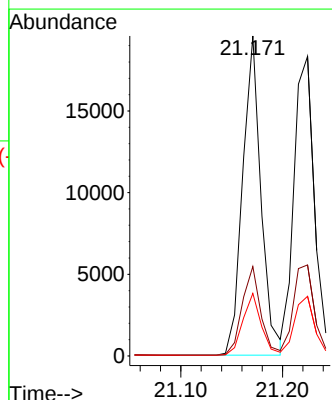
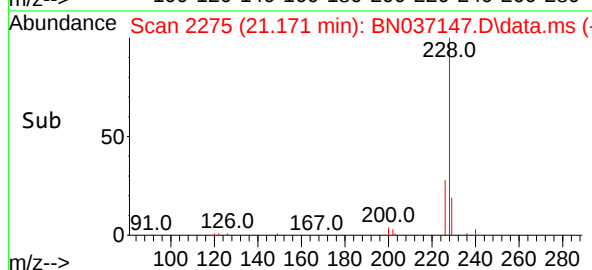
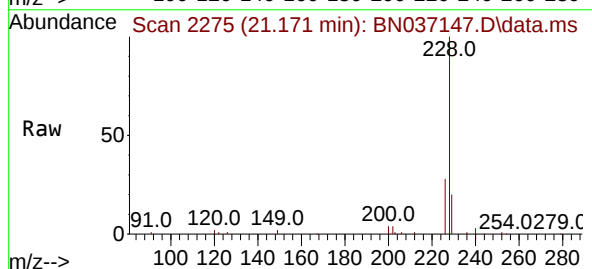


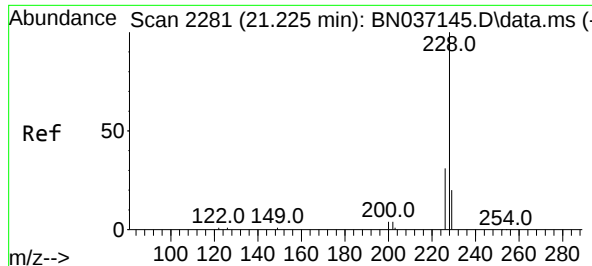
Tgt Ion:244 Resp: 15589  
Ion Ratio Lower Upper  
244 100  
212 11.0 10.0 15.0  
122 16.5 13.2 19.8



#32  
Benzo(a)anthracene  
Concen: 1.748 ng  
RT: 21.171 min Scan# 2275  
Delta R.T. -0.000 min  
Lab File: BN037147.D  
Acq: 03 Jun 2025 14:02

Tgt Ion:228 Resp: 24513  
Ion Ratio Lower Upper  
228 100  
226 28.0 22.6 33.8  
229 19.6 16.2 24.2





#33

Chrysene

Concen: 1.685 ng

RT: 21.224 min Scan# 21

Delta R.T. -0.000 min

Lab File: BN037147.D

Acq: 03 Jun 2025 14:02

Instrument :

BNA\_N

ClientSampleId :

SSTDICC1.6

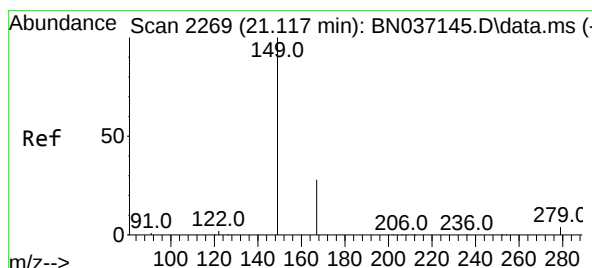
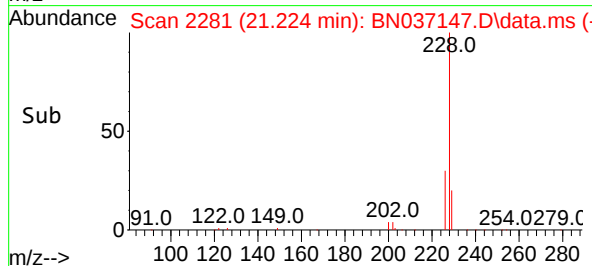
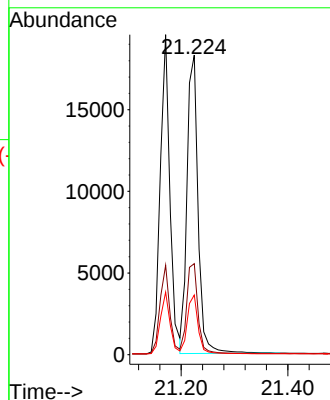
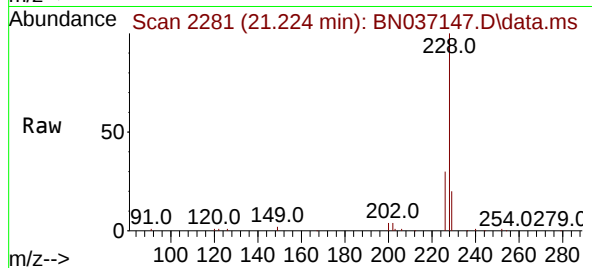
Tgt Ion:228 Resp: 26306

Ion Ratio Lower Upper

228 100

226 30.4 25.2 37.8

229 19.9 16.8 25.2



#34

Bis(2-ethylhexyl)phthalate

Concen: 1.674 ng

RT: 21.117 min Scan# 2269

Delta R.T. -0.000 min

Lab File: BN037147.D

Acq: 03 Jun 2025 14:02

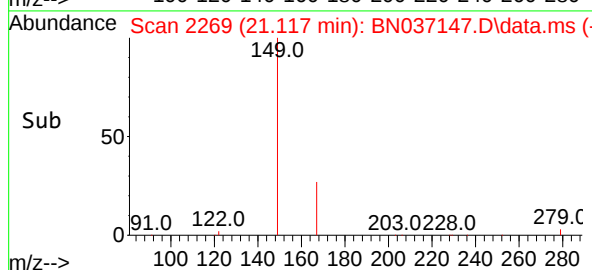
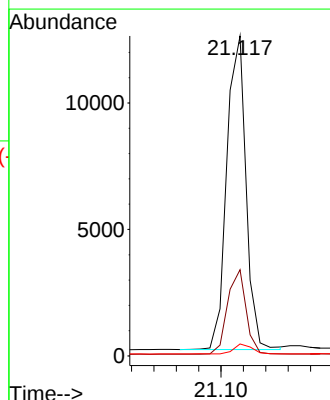
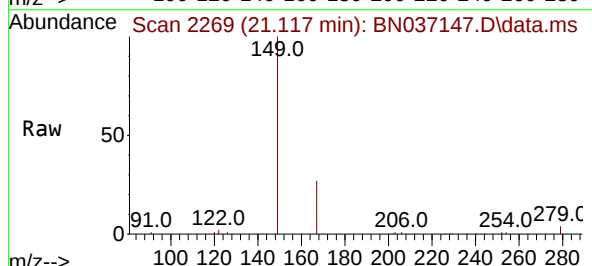
Tgt Ion:149 Resp: 14807

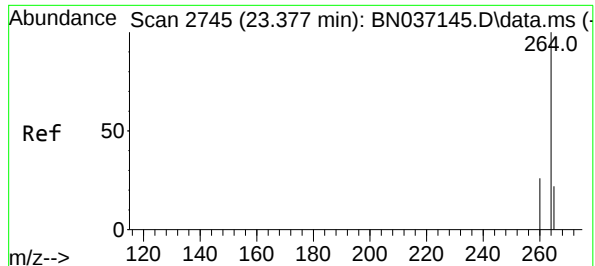
Ion Ratio Lower Upper

149 100

167 26.1 21.0 31.4

279 3.0 2.9 4.3





#35

Perylene-d12

Concen: 0.400 ng

RT: 23.377 min Scan# 21

Delta R.T. -0.000 min

Lab File: BN037147.D

Acq: 03 Jun 2025 14:02

Instrument :

BNA\_N

ClientSampleId :

SSTDICC1.6

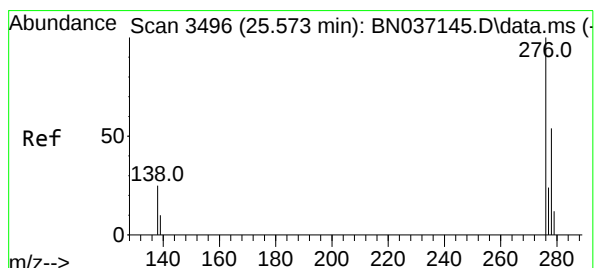
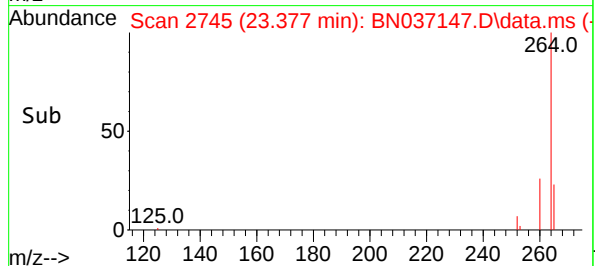
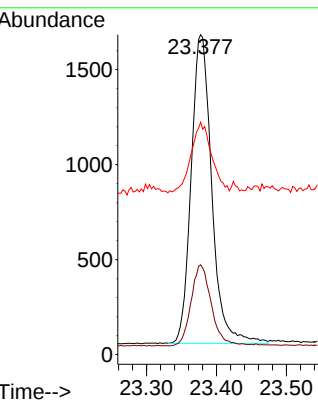
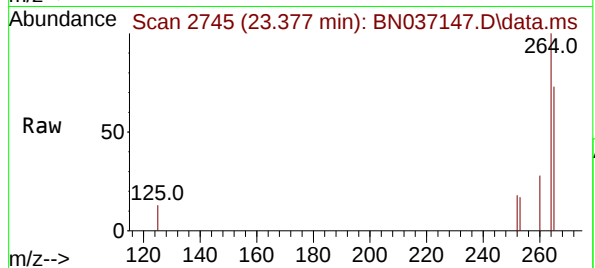
Tgt Ion:264 Resp: 3320

Ion Ratio Lower Upper

264 100

260 28.1 22.1 33.1

265 72.6 55.8 83.8



#36

Indeno(1,2,3-cd)pyrene

Concen: 1.704 ng

RT: 25.573 min Scan# 3496

Delta R.T. -0.000 min

Lab File: BN037147.D

Acq: 03 Jun 2025 14:02

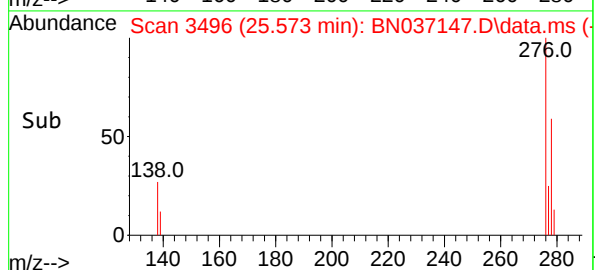
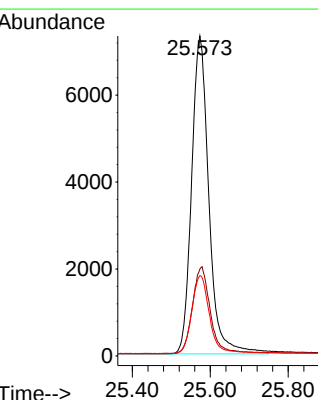
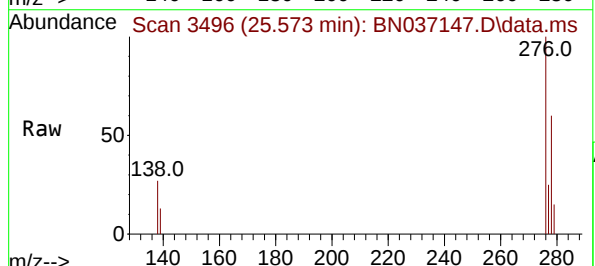
Tgt Ion:276 Resp: 22504

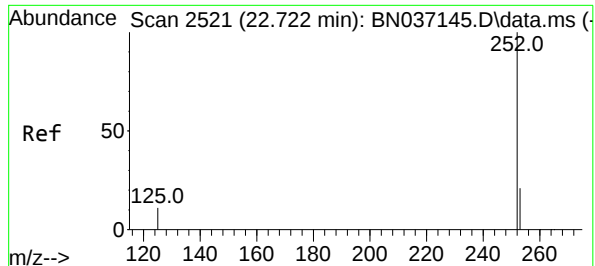
Ion Ratio Lower Upper

276 100

138 27.8 21.0 31.6

277 25.1 19.4 29.2





#37

Benzo(b)fluoranthene

Concen: 1.747 ng

RT: 22.722 min Scan# 2521

Delta R.T. -0.000 min

Lab File: BN037147.D

Acq: 03 Jun 2025 14:02

Instrument :

BNA\_N

ClientSampleId :

SSTDICC1.6

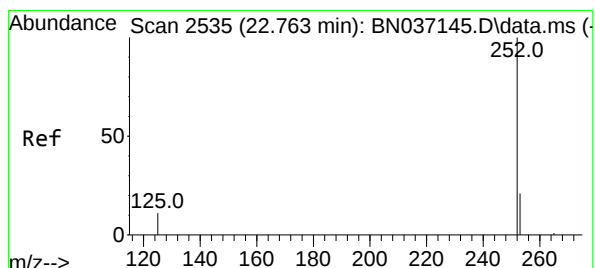
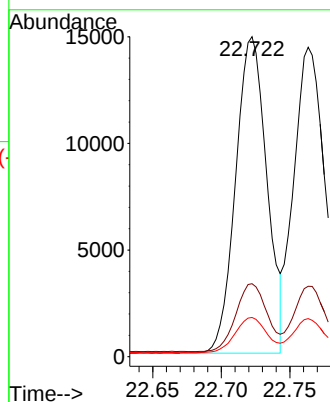
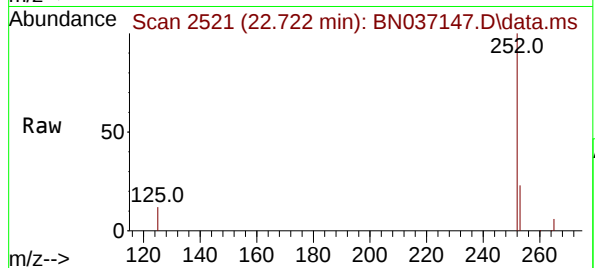
Tgt Ion:252 Resp: 23418

Ion Ratio Lower Upper

252 100

253 22.8 22.3 33.5

125 12.3 13.2 19.8#



#38

Benzo(k)fluoranthene

Concen: 1.725 ng

RT: 22.763 min Scan# 2535

Delta R.T. -0.000 min

Lab File: BN037147.D

Acq: 03 Jun 2025 14:02

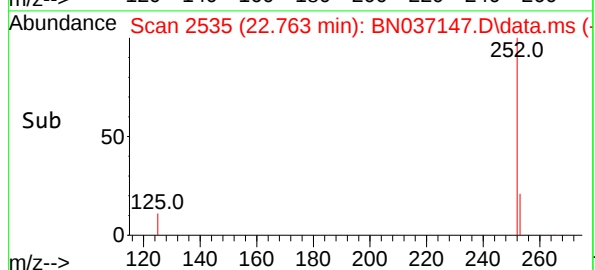
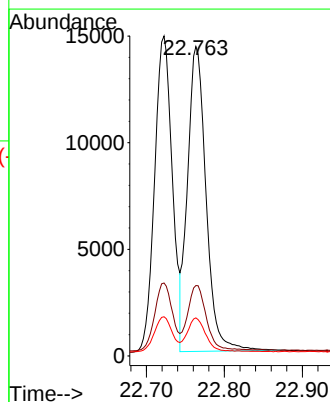
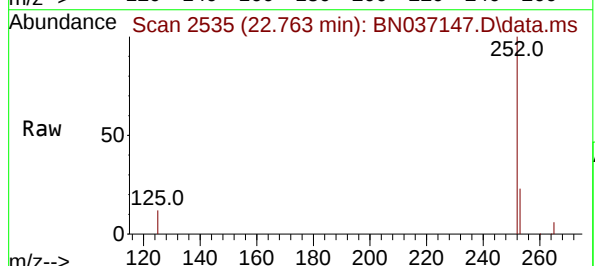
Tgt Ion:252 Resp: 23602

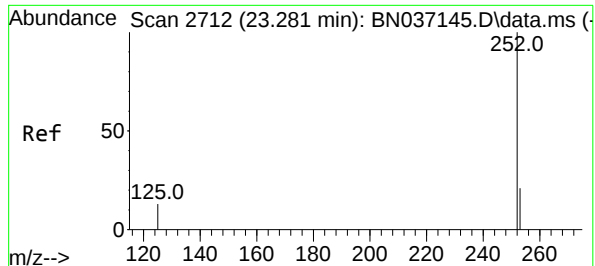
Ion Ratio Lower Upper

252 100

253 22.8 22.2 33.4

125 12.3 13.2 19.8#





#39

Benzo(a)pyrene

Concen: 1.716 ng

RT: 23.281 min Scan# 21

Delta R.T. -0.000 min

Lab File: BN037147.D

Acq: 03 Jun 2025 14:02

Instrument :

BNA\_N

ClientSampleId :

SSTDICC1.6

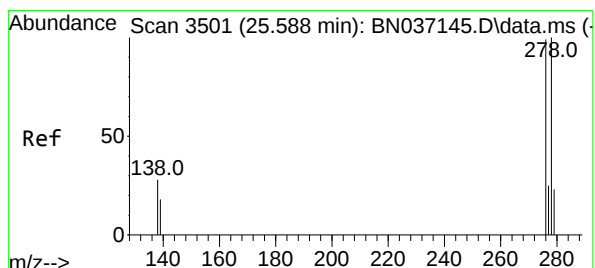
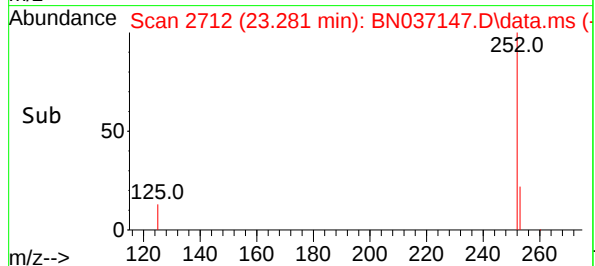
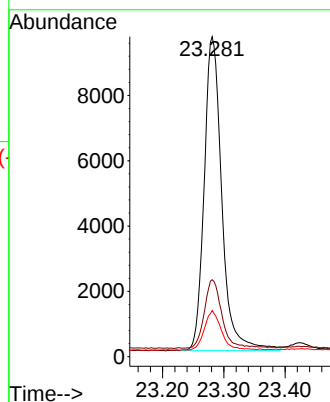
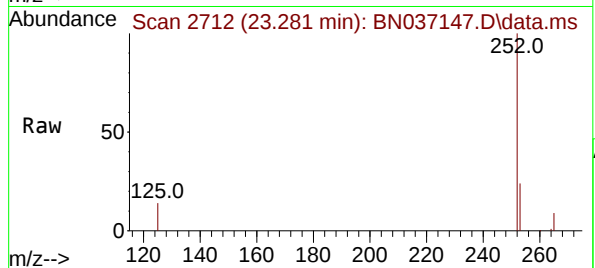
Tgt Ion:252 Resp: 19265

Ion Ratio Lower Upper

252 100

253 24.1 25.0 37.4#

125 14.4 17.0 25.6#



#40

Dibenzo(a,h)anthracene

Concen: 1.738 ng

RT: 25.588 min Scan# 3501

Delta R.T. -0.000 min

Lab File: BN037147.D

Acq: 03 Jun 2025 14:02

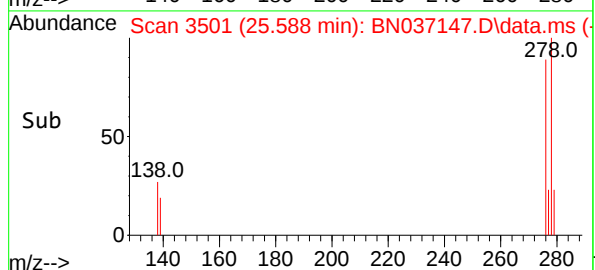
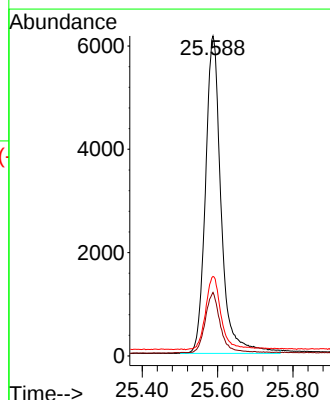
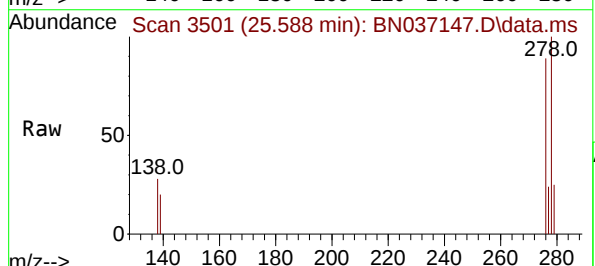
Tgt Ion:278 Resp: 17700

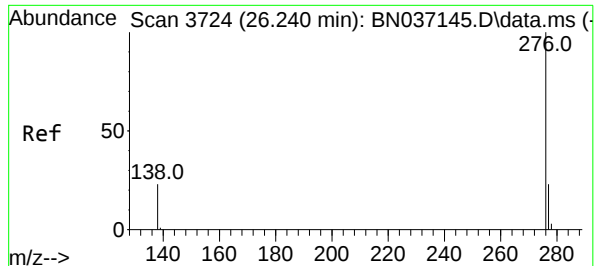
Ion Ratio Lower Upper

278 100

139 19.9 17.6 26.4

279 24.9 26.0 39.0#





#41

Benzo(g,h,i)perylene

Concen: 1.677 ng

RT: 26.243 min Scan# 31

Delta R.T. 0.003 min

Lab File: BN037147.D

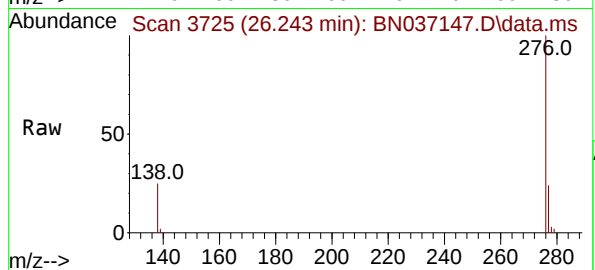
Acq: 03 Jun 2025 14:02

Instrument :

BNA\_N

ClientSampleId :

SSTDICC1.6



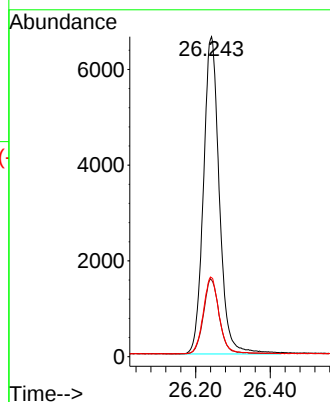
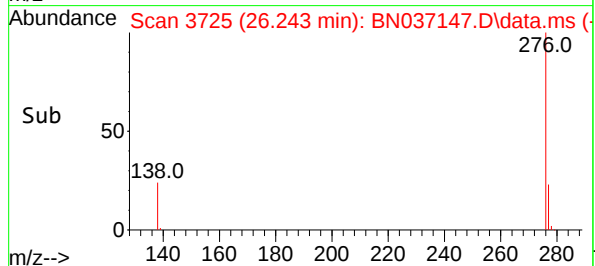
Tgt Ion:276 Resp: 19619

Ion Ratio Lower Upper

276 100

277 24.0 20.9 31.3

138 24.7 20.8 31.2



Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN060325\  
 Data File : BN037148.D  
 Acq On : 03 Jun 2025 14:38  
 Operator : RC/JU  
 Sample : SSTDICC3.2  
 Misc :  
 ALS Vial : 7 Sample Multiplier: 1

Instrument :  
 BNA\_N  
 ClientSampleId :  
 SSTDICC3.2

Quant Time: Jun 04 01:43:12 2025  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\8270-SIM-BN060325.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Wed Jun 04 01:40:18 2025  
 Response via : Initial Calibration

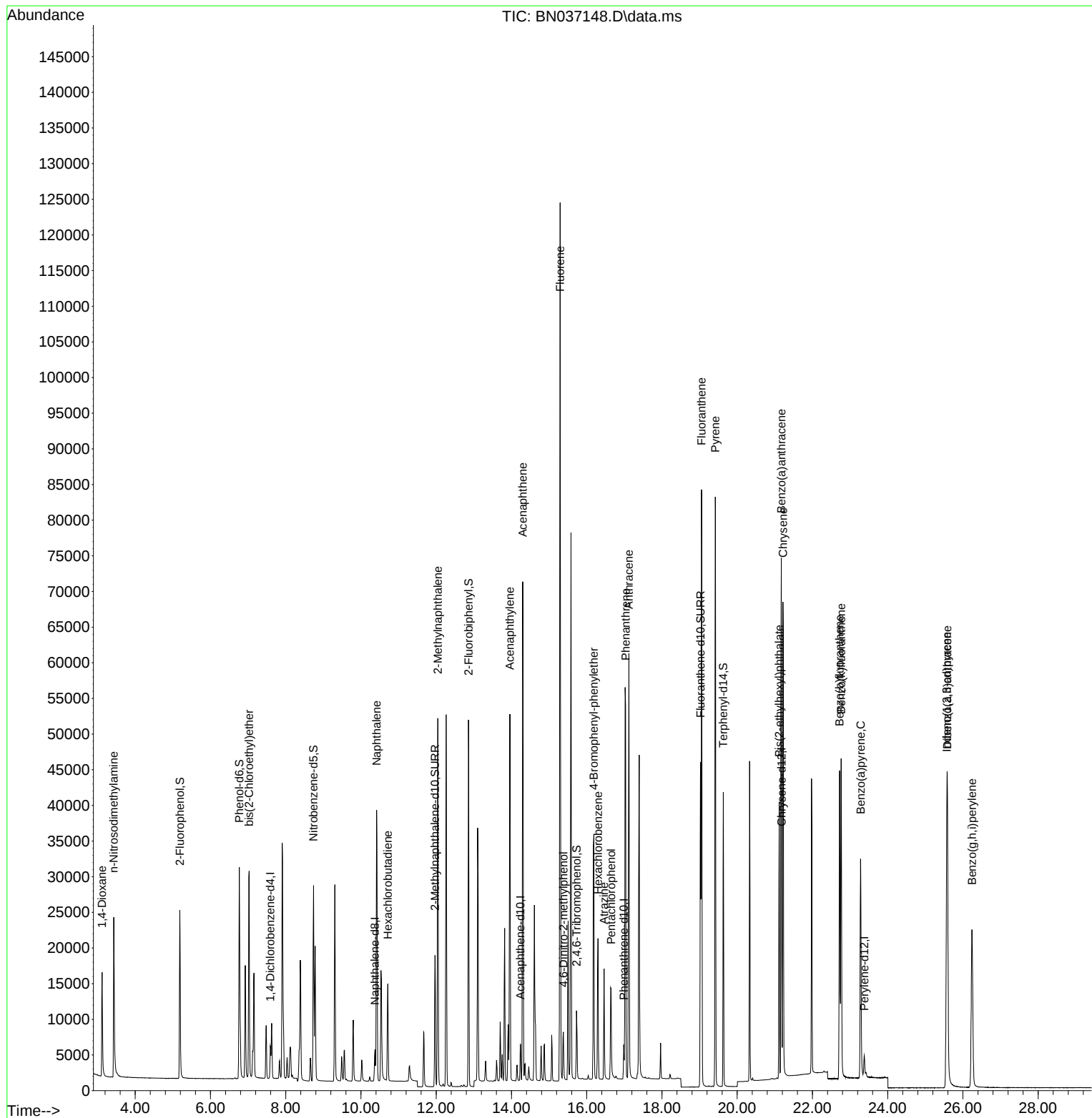
| Compound                      | R.T.   | QIon | Response | Conc  | Units | Dev(Min)  |
|-------------------------------|--------|------|----------|-------|-------|-----------|
| Internal Standards            |        |      |          |       |       |           |
| 1) 1,4-Dichlorobenzene-d4     | 7.589  | 152  | 2082     | 0.400 | ng    | 0.00      |
| 7) Naphthalene-d8             | 10.372 | 136  | 5272     | 0.400 | ng    | 0.00      |
| 13) Acenaphthene-d10          | 14.234 | 164  | 3042     | 0.400 | ng    | 0.00      |
| 19) Phenanthrene-d10          | 16.984 | 188  | 5757     | 0.400 | ng    | 0.00      |
| 29) Chrysene-d12              | 21.180 | 240  | 4564     | 0.400 | ng    | # 0.00    |
| 35) Perylene-d12              | 23.377 | 264  | 3760     | 0.400 | ng    | 0.00      |
| System Monitoring Compounds   |        |      |          |       |       |           |
| 4) 2-Fluorophenol             | 5.184  | 112  | 16397    | 3.185 | ng    | 0.00      |
| 5) Phenol-d6                  | 6.766  | 99   | 21011    | 3.367 | ng    | 0.00      |
| 8) Nitrobenzene-d5            | 8.739  | 82   | 18977    | 3.412 | ng    | 0.00      |
| 11) 2-Methylnaphthalene-d10   | 11.965 | 152  | 24344    | 3.317 | ng    | 0.00      |
| 14) 2,4,6-Tribromophenol      | 15.730 | 330  | 4423     | 3.611 | ng    | -0.01     |
| 15) 2-Fluorobiphenyl          | 12.858 | 172  | 41512    | 3.201 | ng    | 0.00      |
| 27) Fluoranthene-d10          | 19.026 | 212  | 49341    | 3.373 | ng    | 0.00      |
| 31) Terphenyl-d14             | 19.630 | 244  | 34773    | 3.237 | ng    | 0.00      |
| Target Compounds              |        |      |          |       |       |           |
| 2) 1,4-Dioxane                | 3.119  | 88   | 7944     | 2.862 | ng    | Qvalue 97 |
| 3) n-Nitrosodimethylamine     | 3.429  | 42   | 17675    | 3.172 | ng    | # 98      |
| 6) bis(2-Chloroethyl)ether    | 7.026  | 93   | 19085    | 3.205 | ng    | 96        |
| 9) Naphthalene                | 10.415 | 128  | 49155    | 3.232 | ng    | 97        |
| 10) Hexachlorobutadiene       | 10.714 | 225  | 10373    | 3.131 | ng    | # 99      |
| 12) 2-Methylnaphthalene       | 12.041 | 142  | 33014    | 3.386 | ng    | 96        |
| 16) Acenaphthylene            | 13.956 | 152  | 49883    | 3.345 | ng    | 99        |
| 17) Acenaphthene              | 14.299 | 154  | 31857    | 3.290 | ng    | 98        |
| 18) Fluorene                  | 15.293 | 166  | 42258    | 3.320 | ng    | 99        |
| 20) 4,6-Dinitro-2-methylph... | 15.378 | 198  | 4695     | 3.058 | ng    | # 35      |
| 21) 4-Bromophenyl-phenylether | 16.189 | 248  | 12710    | 3.369 | ng    | # 89      |
| 22) Hexachlorobenzene         | 16.301 | 284  | 13101    | 3.217 | ng    | 98        |
| 23) Atrazine                  | 16.462 | 200  | 10979    | 3.524 | ng    | # 87      |
| 24) Pentachlorophenol         | 16.649 | 266  | 7055     | 3.108 | ng    | 98        |
| 25) Phenanthrene              | 17.033 | 178  | 62481    | 3.350 | ng    | 100       |
| 26) Anthracene                | 17.120 | 178  | 59394    | 3.490 | ng    | 99        |
| 28) Fluoranthene              | 19.054 | 202  | 72004    | 3.495 | ng    | 100       |
| 30) Pyrene                    | 19.416 | 202  | 71397    | 3.205 | ng    | 100       |
| 32) Benzo(a)anthracene        | 21.171 | 228  | 56691    | 3.431 | ng    | 98        |
| 33) Chrysene                  | 21.215 | 228  | 57833    | 3.144 | ng    | 98        |
| 34) Bis(2-ethylhexyl)phtha... | 21.117 | 149  | 33369    | 3.201 | ng    | # 99      |
| 36) Indeno(1,2,3-cd)pyrene    | 25.573 | 276  | 50327    | 3.364 | ng    | 97        |
| 37) Benzo(b)fluoranthene      | 22.722 | 252  | 51531    | 3.395 | ng    | # 89      |
| 38) Benzo(k)fluoranthene      | 22.763 | 252  | 52430    | 3.384 | ng    | # 89      |
| 39) Benzo(a)pyrene            | 23.281 | 252  | 42893    | 3.374 | ng    | # 84      |
| 40) Dibenzo(a,h)anthracene    | 25.587 | 278  | 40079    | 3.474 | ng    | # 89      |
| 41) Benzo(g,h,i)perylene      | 26.239 | 276  | 42842    | 3.233 | ng    | 96        |

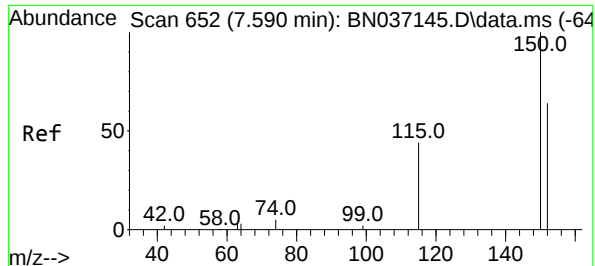
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN060325\  
Data File : BN037148.D  
Acq On : 03 Jun 2025 14:38  
Operator : RC/JU  
Sample : SSTDICC3.2  
Misc :  
ALS Vial : 7 Sample Multiplier: 1

Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC3.2

Quant Time: Jun 04 01:43:12 2025  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\8270-SIM-BN060325.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Wed Jun 04 01:40:18 2025  
Response via : Initial Calibration

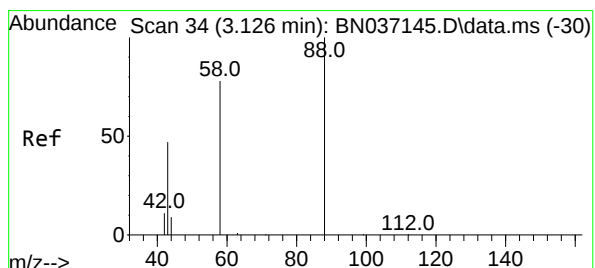
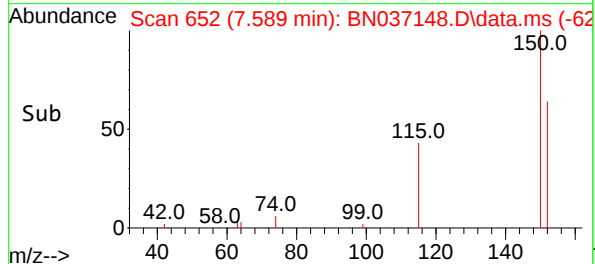
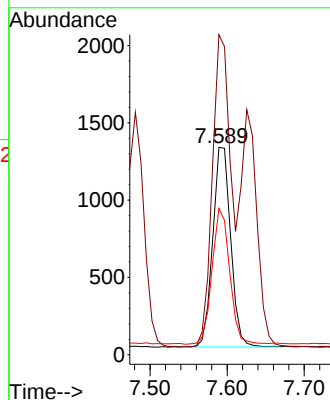
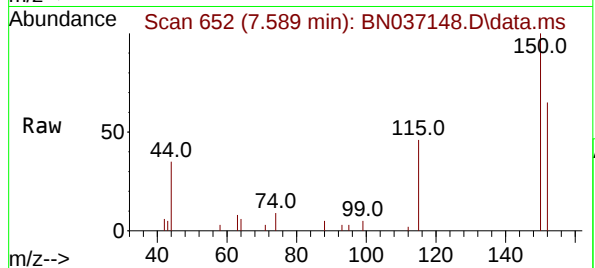




#1  
1,4-Dichlorobenzene-d4  
Concen: 0.400 ng  
RT: 7.589 min Scan# 61  
Delta R.T. -0.001 min  
Lab File: BN037148.D  
Acq: 03 Jun 2025 14:38

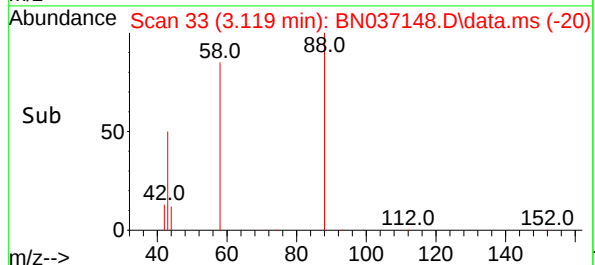
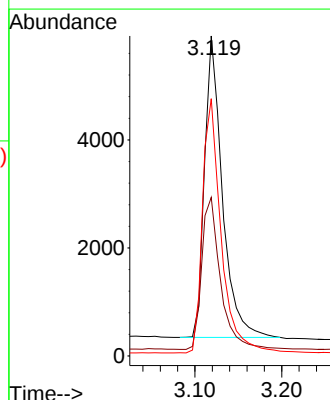
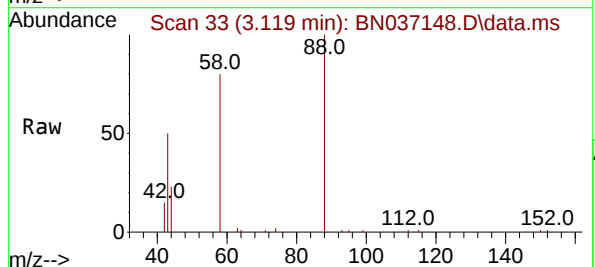
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC3.2

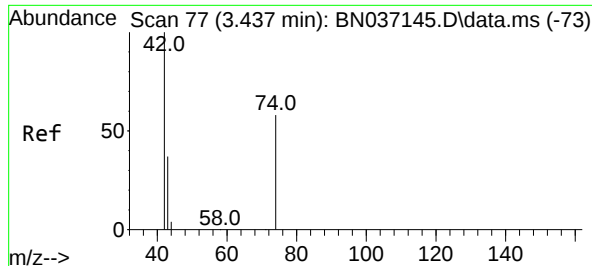
Tgt Ion: 152 Resp: 2082  
Ion Ratio Lower Upper  
152 100  
150 154.4 123.2 184.8  
115 70.5 56.6 85.0



#2  
1,4-Dioxane  
Concen: 2.862 ng  
RT: 3.119 min Scan# 33  
Delta R.T. -0.007 min  
Lab File: BN037148.D  
Acq: 03 Jun 2025 14:38

Tgt Ion: 88 Resp: 7944  
Ion Ratio Lower Upper  
88 100  
43 53.4 43.5 65.3  
58 88.6 67.7 101.5

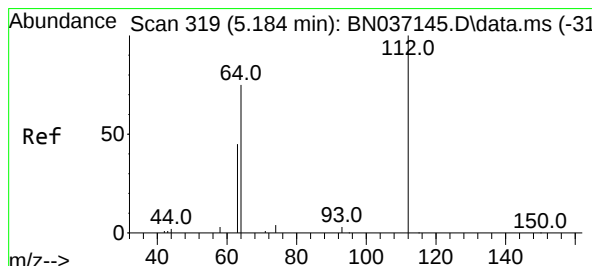
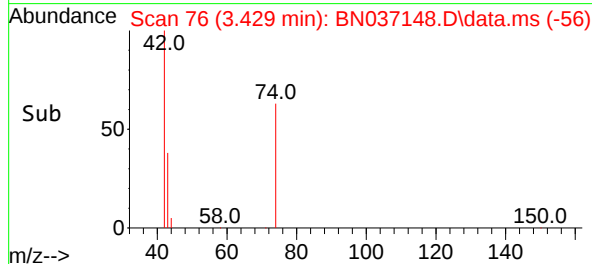
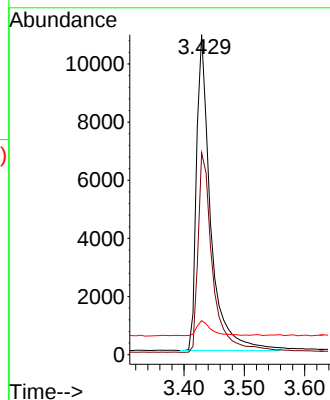
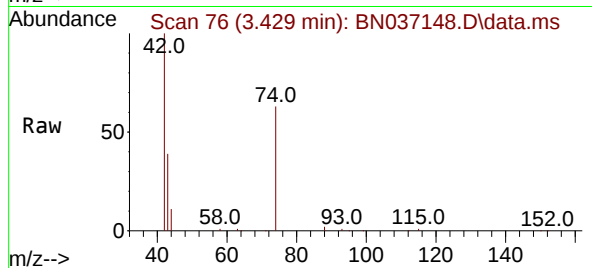




#3  
n-Nitrosodimethylamine  
Concen: 3.172 ng  
RT: 3.429 min Scan# 70  
Delta R.T. -0.007 min  
Lab File: BN037148.D  
Acq: 03 Jun 2025 14:38

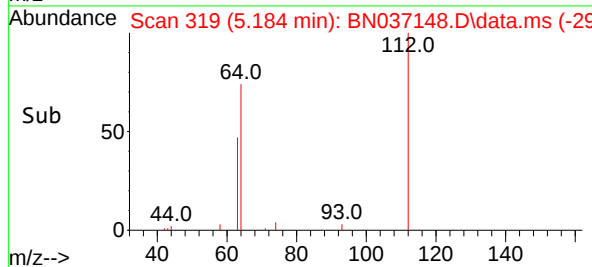
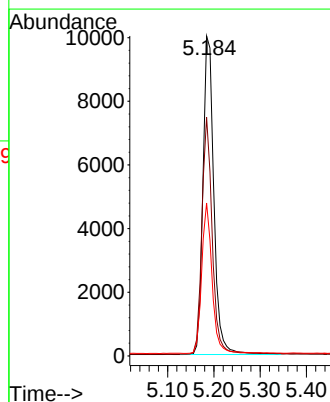
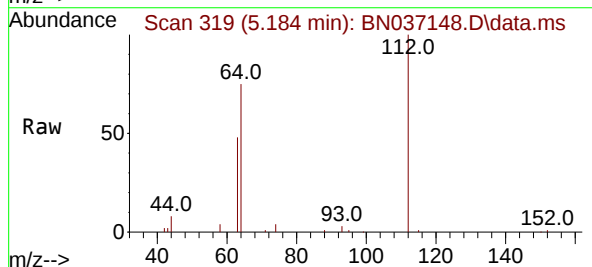
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC3.2

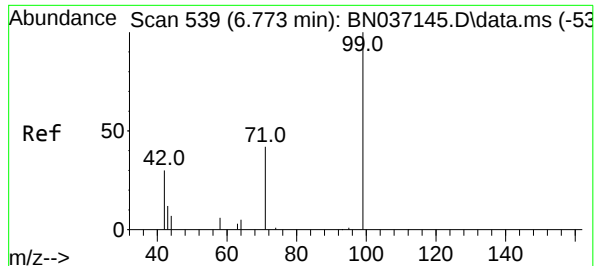
Tgt Ion: 42 Resp: 17675  
Ion Ratio Lower Upper  
42 100  
74 65.5 53.0 79.4  
44 4.8 5.9 8.9#



#4  
2-Fluorophenol  
Concen: 3.185 ng  
RT: 5.184 min Scan# 319  
Delta R.T. -0.000 min  
Lab File: BN037148.D  
Acq: 03 Jun 2025 14:38

Tgt Ion: 112 Resp: 16397  
Ion Ratio Lower Upper  
112 100  
64 70.6 56.3 84.5  
63 45.1 36.2 54.4

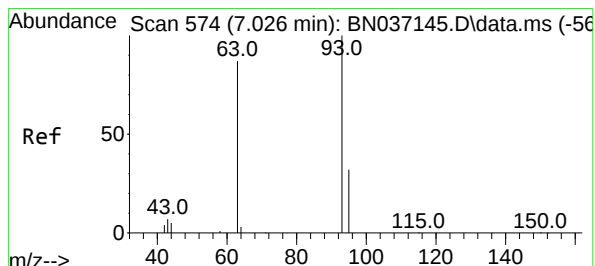
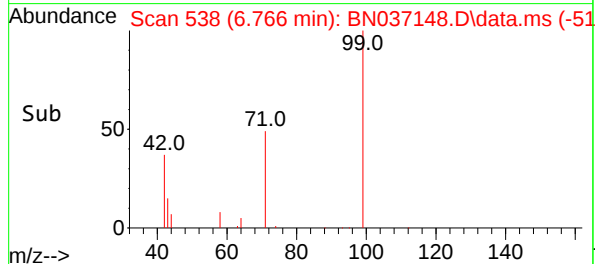
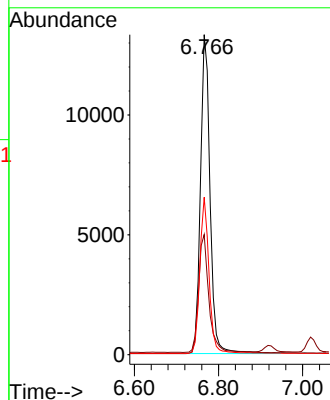
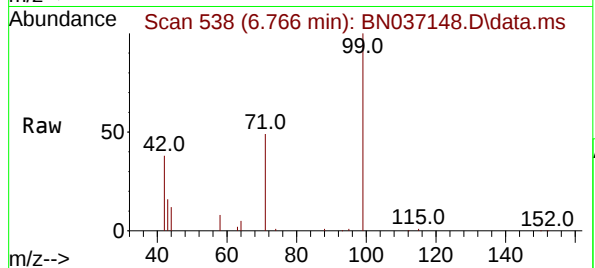




#5  
Phenol-d6  
Concen: 3.367 ng  
RT: 6.766 min Scan# 51  
Delta R.T. -0.007 min  
Lab File: BN037148.D  
Acq: 03 Jun 2025 14:38

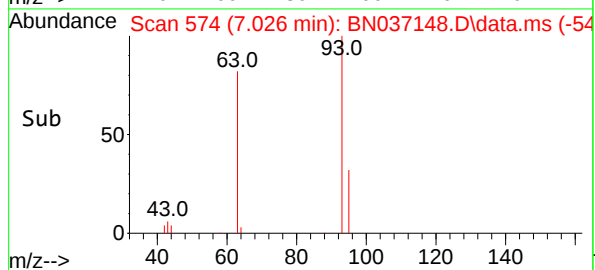
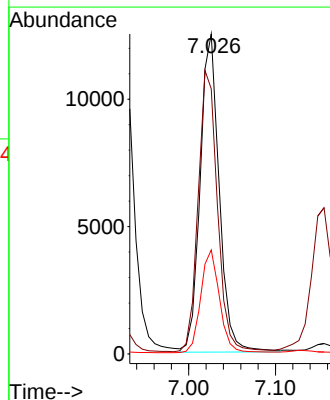
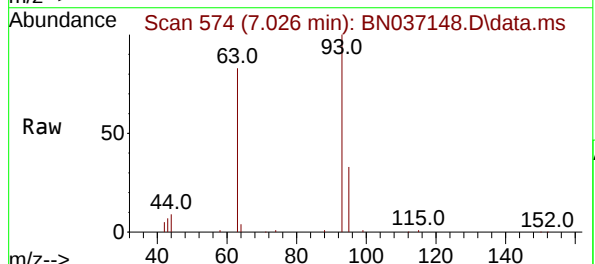
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ClientSampleId :  
SSTDICC3.2

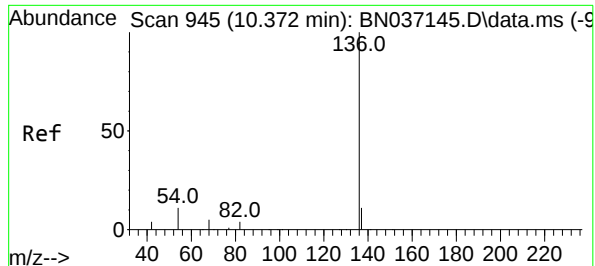
Tgt Ion: 99 Resp: 21011  
Ion Ratio Lower Upper  
99 100  
42 39.5 31.3 46.9  
71 47.7 38.2 57.2



#6  
bis(2-Chloroethyl)ether  
Concen: 3.205 ng  
RT: 7.026 min Scan# 574  
Delta R.T. -0.000 min  
Lab File: BN037148.D  
Acq: 03 Jun 2025 14:38

Tgt Ion: 93 Resp: 19085  
Ion Ratio Lower Upper  
93 100  
63 89.3 68.6 103.0  
95 31.8 24.3 36.5

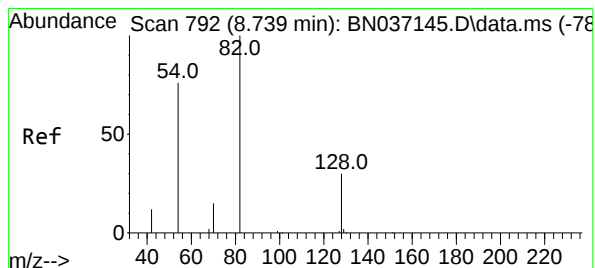
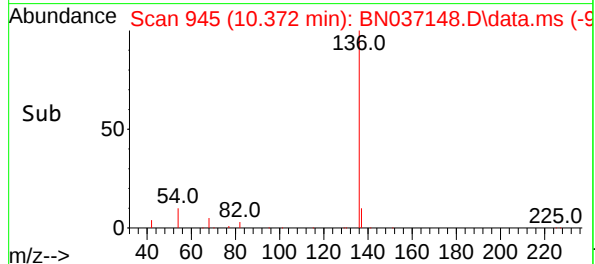
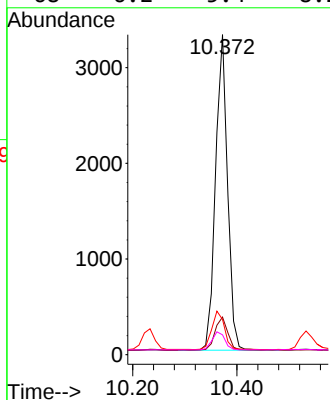
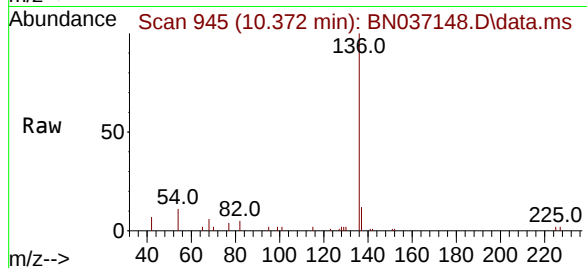




#7  
Naphthalene-d8  
Concen: 0.400 ng  
RT: 10.372 min Scan# 945  
Delta R.T. -0.000 min  
Lab File: BN037148.D  
Acq: 03 Jun 2025 14:38

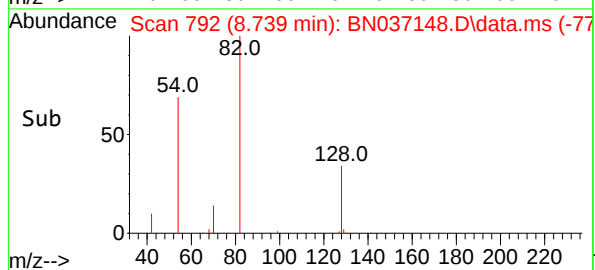
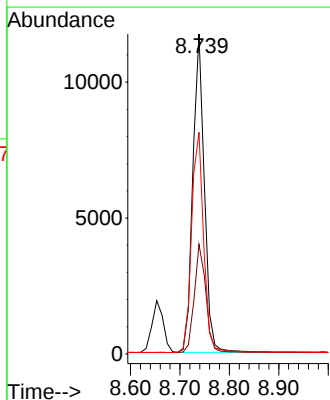
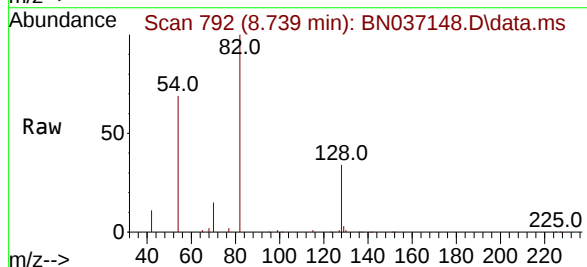
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC3.2

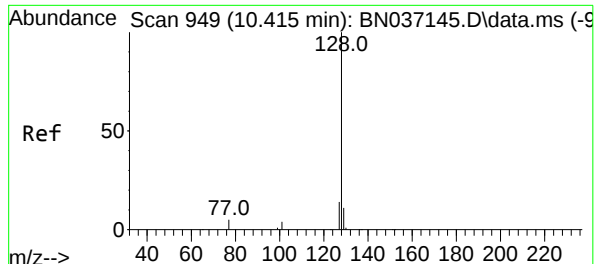
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 136   | Resp: | 5272  |
| Ion      | Ratio | Lower | Upper |
| 136      | 100   |       |       |
| 137      | 11.8  | 9.7   | 14.5  |
| 54       | 11.0  | 9.7   | 14.5  |
| 68       | 6.2   | 5.4   | 8.2   |



#8  
Nitrobenzene-d5  
Concen: 3.412 ng  
RT: 8.739 min Scan# 792  
Delta R.T. -0.000 min  
Lab File: BN037148.D  
Acq: 03 Jun 2025 14:38

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 82    | Resp: | 18977 |
| Ion      | Ratio | Lower | Upper |
| 82       | 100   |       |       |
| 128      | 34.3  | 26.9  | 40.3  |
| 54       | 69.2  | 61.4  | 92.2  |

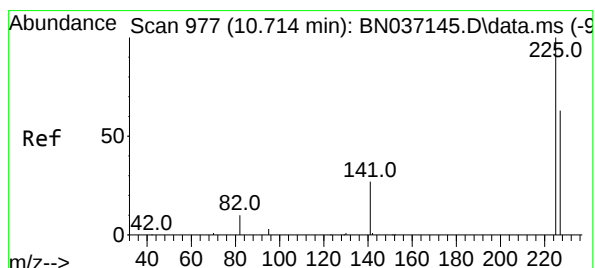
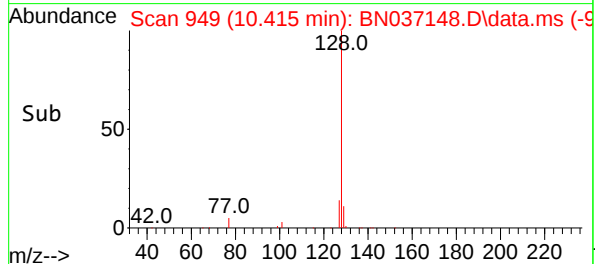
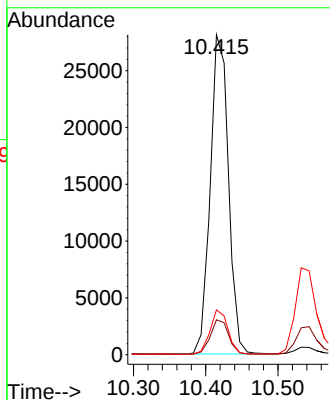
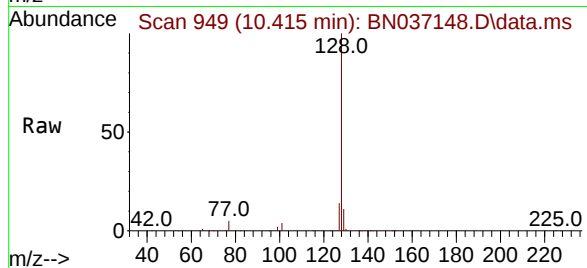




#9  
Naphthalene  
Concen: 3.232 ng  
RT: 10.415 min Scan# 949  
Delta R.T. -0.000 min  
Lab File: BN037148.D  
Acq: 03 Jun 2025 14:38

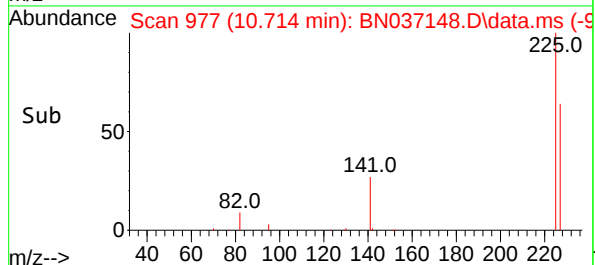
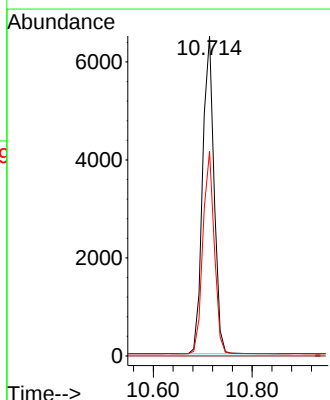
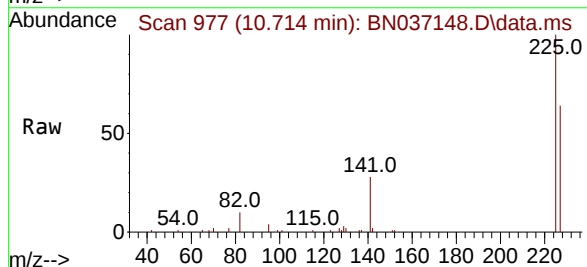
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC3.2

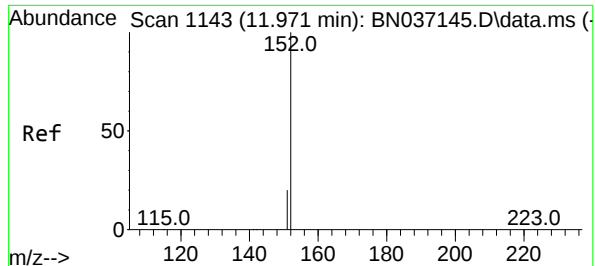
| Tgt Ion   | 128   | 129  | 127  |
|-----------|-------|------|------|
| Resp:     | 49155 |      |      |
| Ion Ratio | 100   | 10.9 | 14.0 |
| Lower     |       | 9.8  | 12.3 |
| Upper     |       | 14.8 | 18.5 |



#10  
Hexachlorobutadiene  
Concen: 3.131 ng  
RT: 10.714 min Scan# 977  
Delta R.T. -0.000 min  
Lab File: BN037148.D  
Acq: 03 Jun 2025 14:38

| Tgt Ion   | 225   | 223 | 227  |
|-----------|-------|-----|------|
| Resp:     | 10373 |     |      |
| Ion Ratio | 100   | 0.0 | 63.4 |
| Lower     |       | 0.0 | 50.3 |
| Upper     |       | 0.0 | 75.5 |

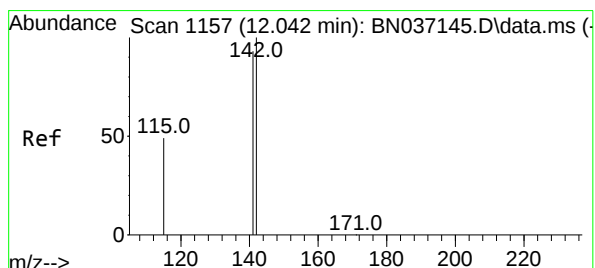
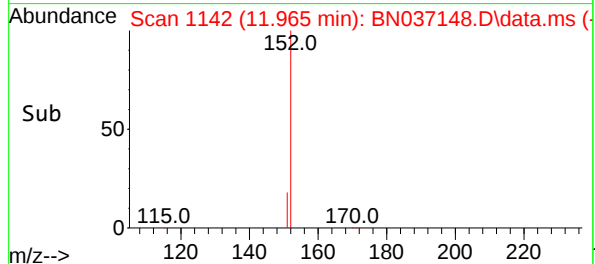
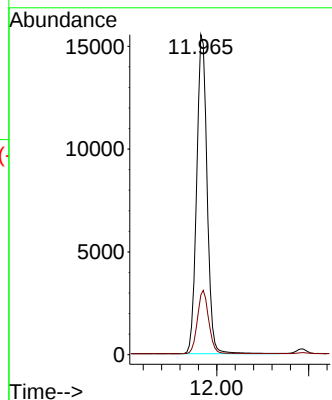
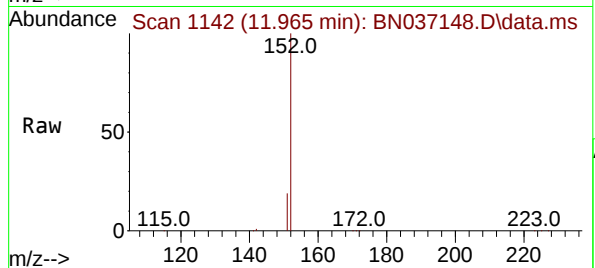




#11  
2-Methylnaphthalene-d10  
Concen: 3.317 ng  
RT: 11.965 min Scan# 1142  
Delta R.T. -0.005 min  
Lab File: BN037148.D  
Acq: 03 Jun 2025 14:38

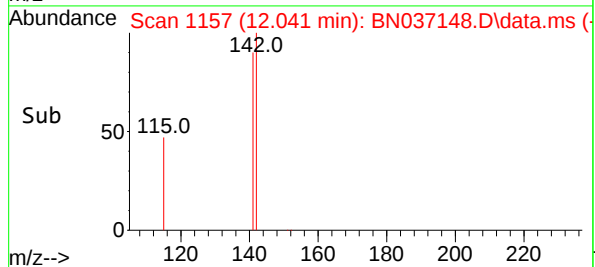
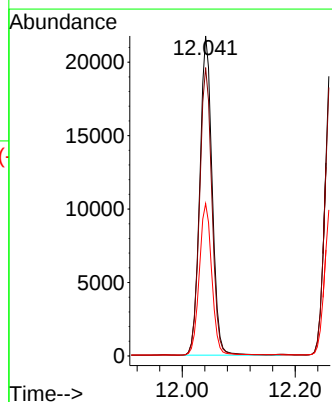
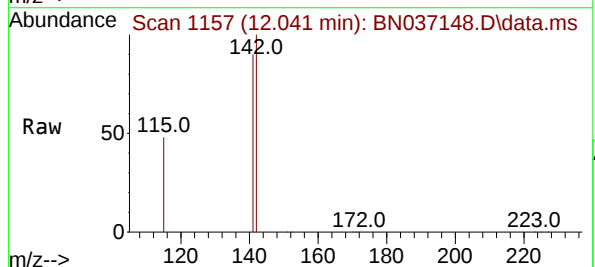
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC3.2

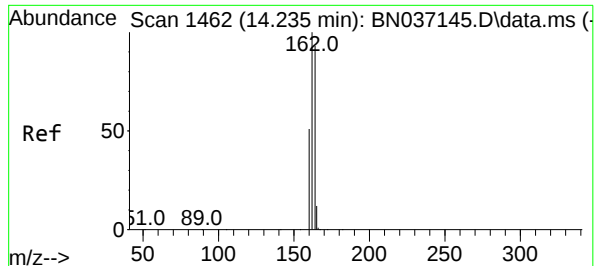
Tgt Ion:152 Resp: 24344  
Ion Ratio Lower Upper  
152 100  
151 21.5 17.1 25.7



#12  
2-Methylnaphthalene  
Concen: 3.386 ng  
RT: 12.041 min Scan# 1157  
Delta R.T. -0.000 min  
Lab File: BN037148.D  
Acq: 03 Jun 2025 14:38

Tgt Ion:142 Resp: 33014  
Ion Ratio Lower Upper  
142 100  
141 90.1 74.6 111.8  
115 47.6 41.0 61.4

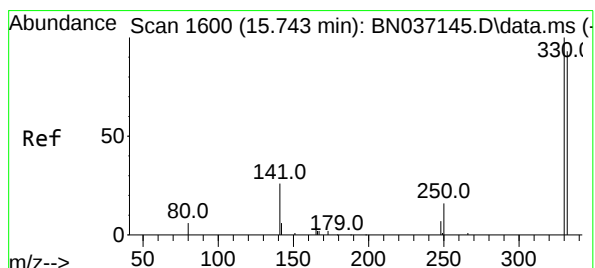
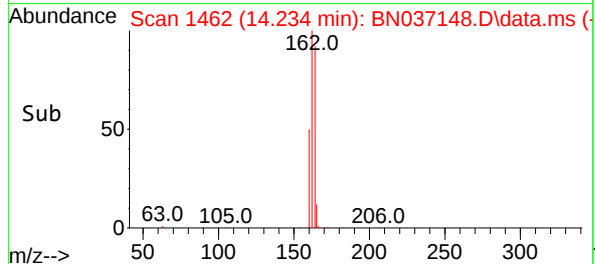
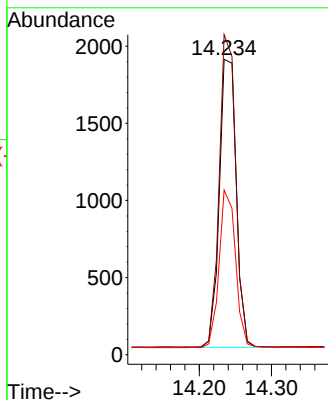
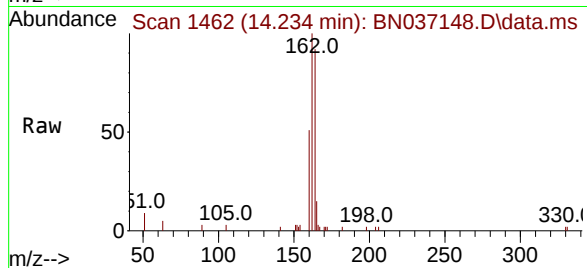




#13  
Acenaphthene-d10  
Concen: 0.400 ng  
RT: 14.234 min Scan# 1462  
Delta R.T. -0.000 min  
Lab File: BN037148.D  
Acq: 03 Jun 2025 14:38

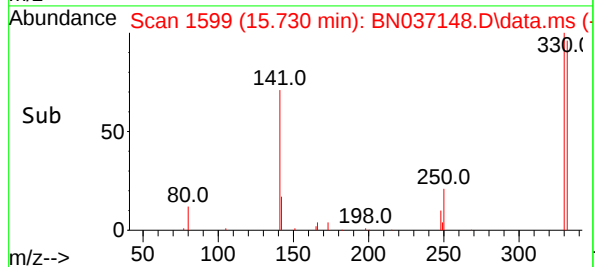
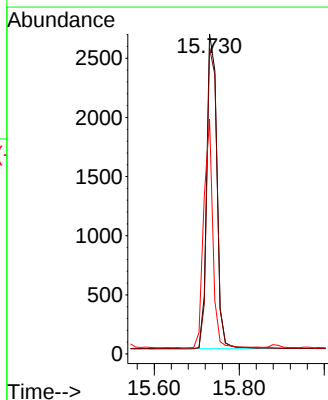
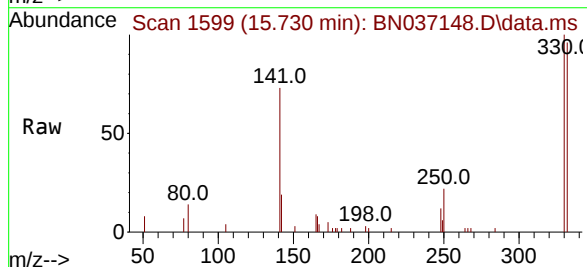
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC3.2

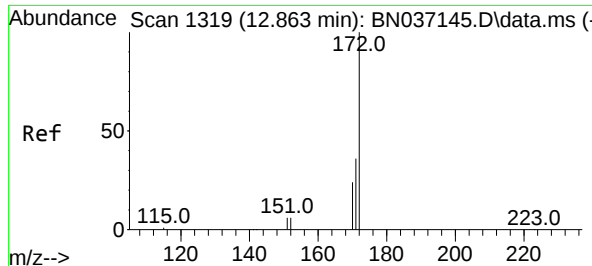
Tgt Ion:164 Resp: 3042  
Ion Ratio Lower Upper  
164 100  
162 108.4 85.5 128.3  
160 55.8 44.6 67.0



#14  
2,4,6-Tribromophenol  
Concen: 3.611 ng  
RT: 15.730 min Scan# 1599  
Delta R.T. -0.013 min  
Lab File: BN037148.D  
Acq: 03 Jun 2025 14:38

Tgt Ion:330 Resp: 4423  
Ion Ratio Lower Upper  
330 100  
332 96.7 77.1 115.7  
141 65.0 46.4 69.6

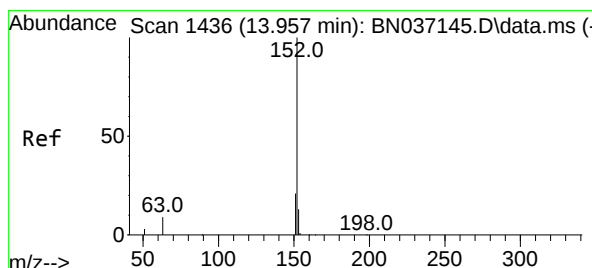
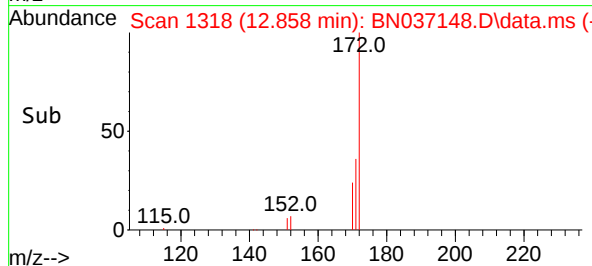
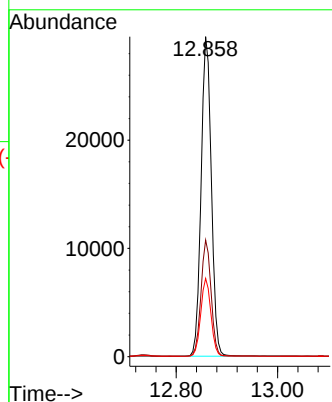
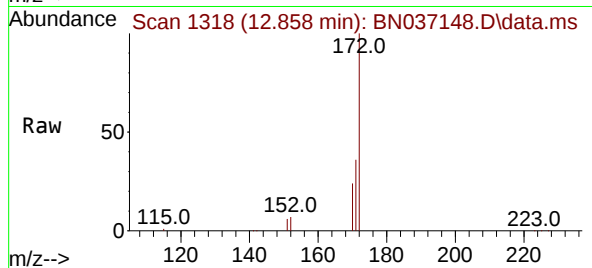




#15  
2-Fluorobiphenyl  
Concen: 3.201 ng  
RT: 12.858 min Scan# 1318  
Delta R.T. -0.005 min  
Lab File: BN037148.D  
Acq: 03 Jun 2025 14:38

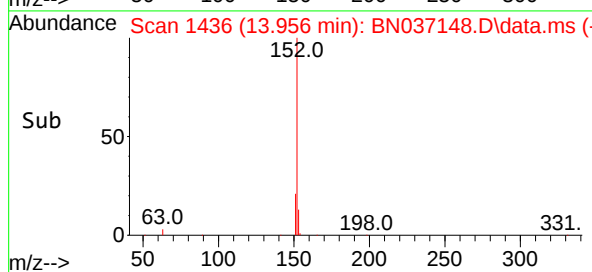
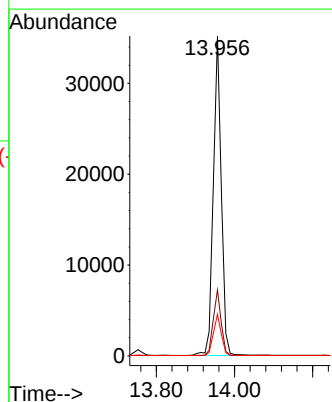
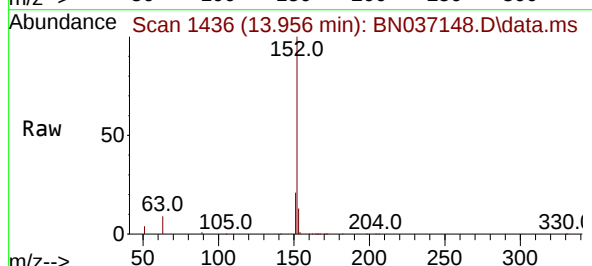
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BNA\_N  
ClientSampleId :  
SSTDICC3.2

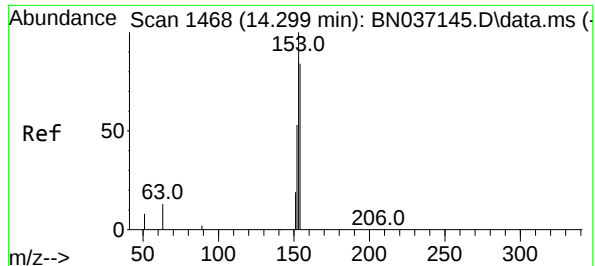
|             |       |             |
|-------------|-------|-------------|
| Tgt Ion:172 | Resp: | 41512       |
| Ion         | Ratio | Lower Upper |
| 172         | 100   |             |
| 171         | 36.4  | 29.6 44.4   |
| 170         | 24.5  | 20.3 30.5   |



#16  
Acenaphthylene  
Concen: 3.345 ng  
RT: 13.956 min Scan# 1436  
Delta R.T. -0.000 min  
Lab File: BN037148.D  
Acq: 03 Jun 2025 14:38

|             |       |             |
|-------------|-------|-------------|
| Tgt Ion:152 | Resp: | 49883       |
| Ion         | Ratio | Lower Upper |
| 152         | 100   |             |
| 151         | 20.3  | 16.3 24.5   |
| 153         | 12.9  | 10.6 15.8   |





#17

Acenaphthene

Concen: 3.290 ng

RT: 14.299 min Scan# 1468

Delta R.T. -0.000 min

Lab File: BN037148.D

Acq: 03 Jun 2025 14:38

Instrument :

BNA\_N

ClientSampleId :

SSTDICC3.2

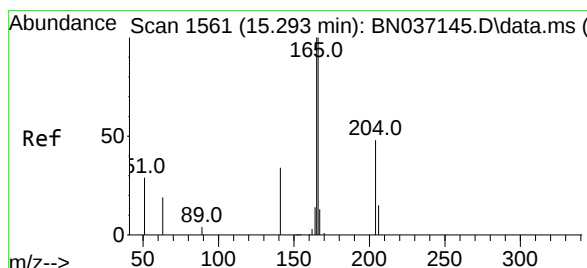
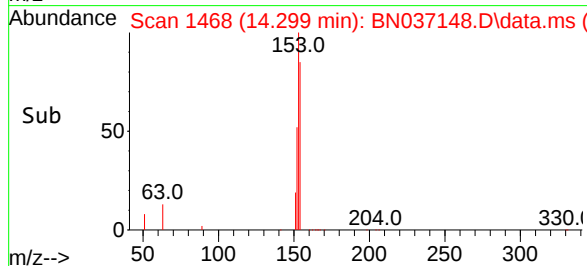
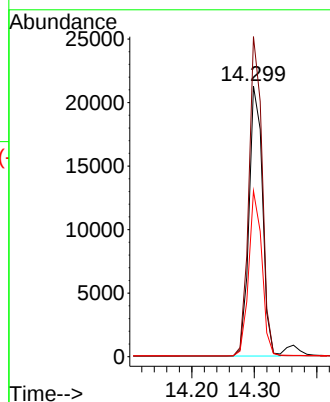
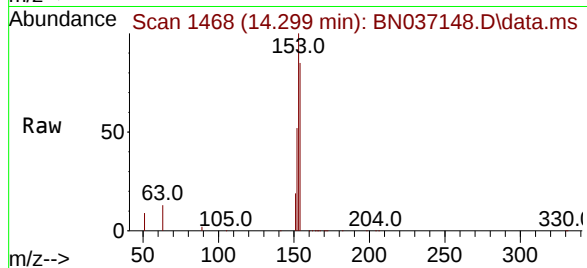
Tgt Ion:154 Resp: 31857

Ion Ratio Lower Upper

154 100

153 116.6 93.8 140.8

152 59.9 50.5 75.7



#18

Fluorene

Concen: 3.320 ng

RT: 15.293 min Scan# 1561

Delta R.T. -0.000 min

Lab File: BN037148.D

Acq: 03 Jun 2025 14:38

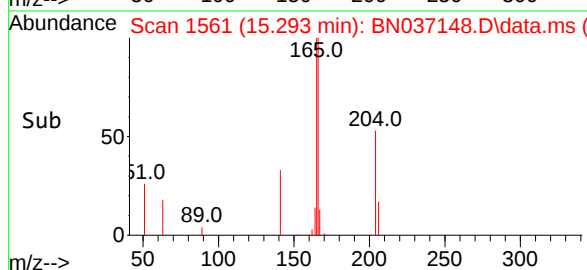
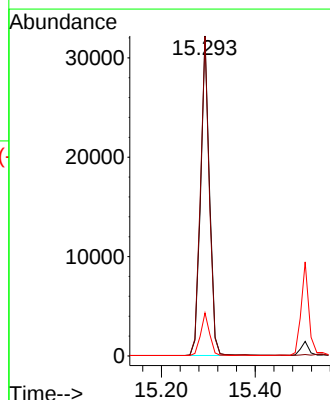
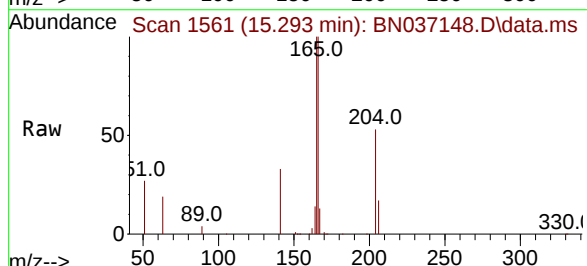
Tgt Ion:166 Resp: 42258

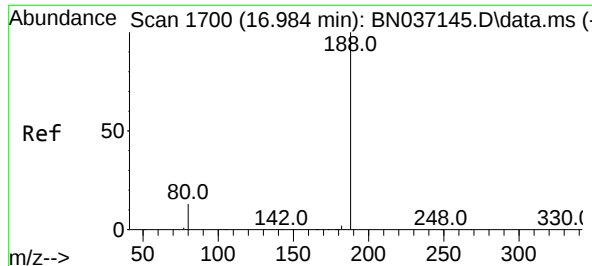
Ion Ratio Lower Upper

166 100

165 99.8 81.1 121.7

167 13.3 10.8 16.2





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 16.984 min Scan# 11

Delta R.T. -0.000 min

Lab File: BN037148.D

Acq: 03 Jun 2025 14:38

Instrument :

BNA\_N

ClientSampleId :

SSTDICC3.2

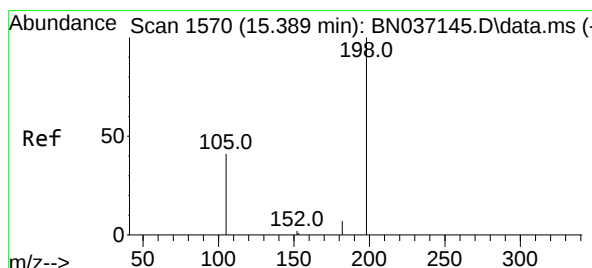
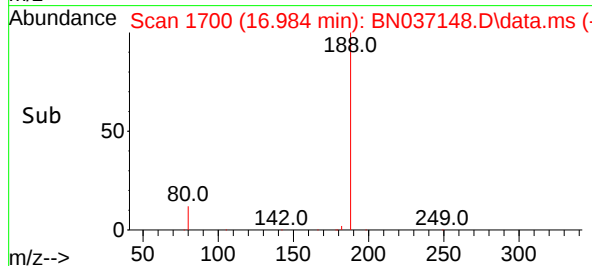
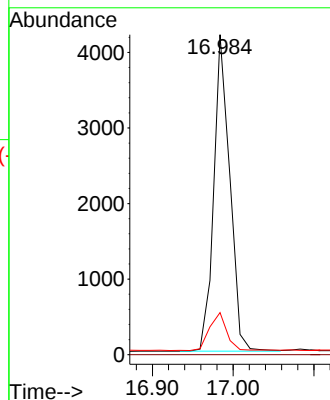
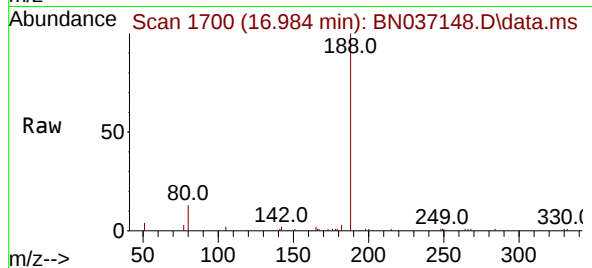
Tgt Ion:188 Resp: 5757

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 13.1 11.3 16.9



#20

4,6-Dinitro-2-methylphenol

Concen: 3.058 ng

RT: 15.378 min Scan# 1569

Delta R.T. -0.011 min

Lab File: BN037148.D

Acq: 03 Jun 2025 14:38

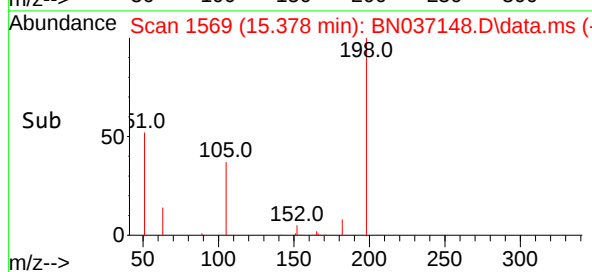
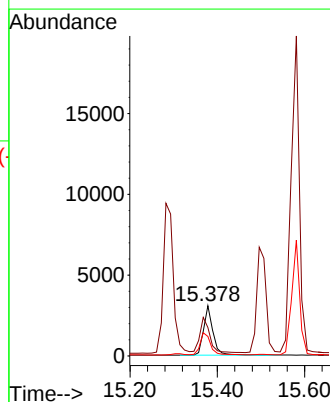
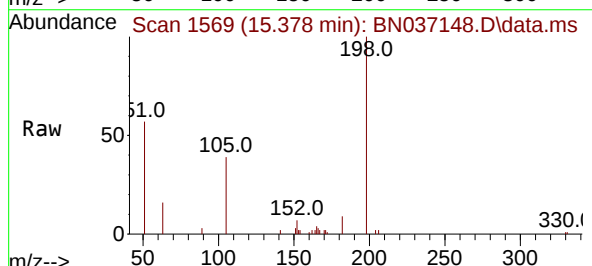
Tgt Ion:198 Resp: 4695

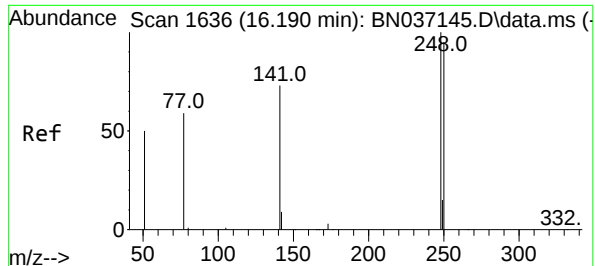
Ion Ratio Lower Upper

198 100

51 56.8 125.2 187.8#

105 38.9 57.1 85.7#

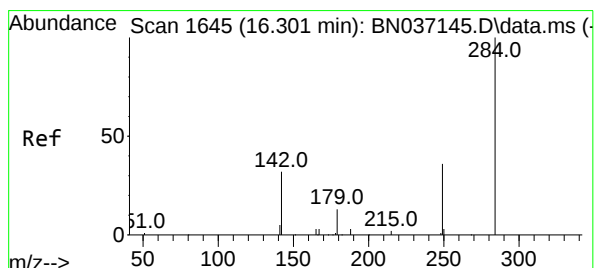
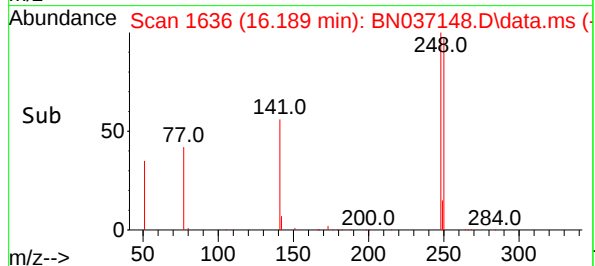
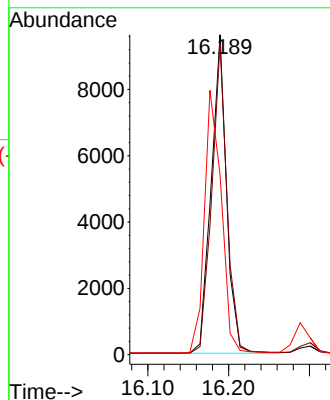
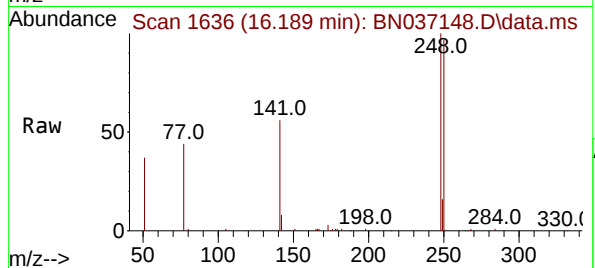




#21  
4-Bromophenyl-phenylether  
Concen: 3.369 ng  
RT: 16.189 min Scan# 1636  
Delta R.T. -0.000 min  
Lab File: BN037148.D  
Acq: 03 Jun 2025 14:38

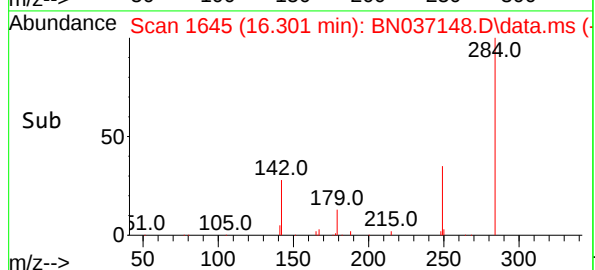
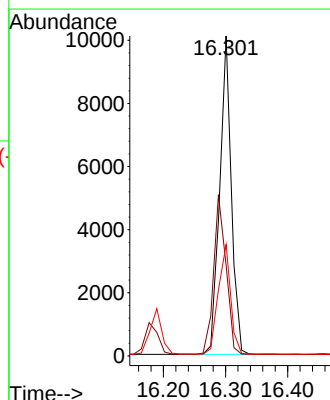
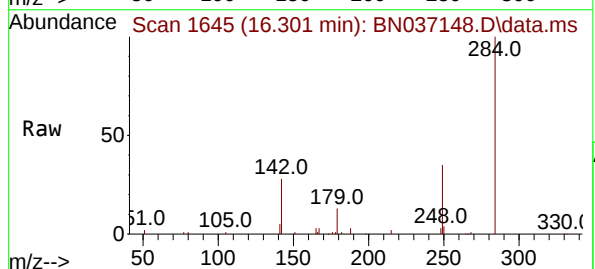
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC3.2

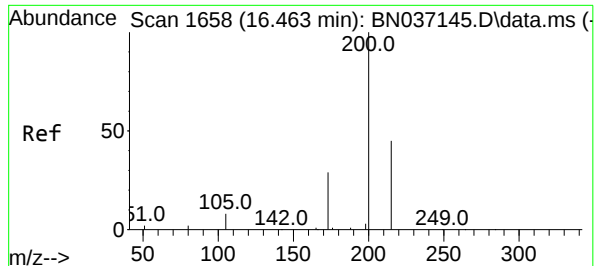
Tgt Ion:248 Resp: 12710  
Ion Ratio Lower Upper  
248 100  
250 97.3 76.1 114.1  
141 56.2 60.1 90.1#



#22  
Hexachlorobenzene  
Concen: 3.217 ng  
RT: 16.301 min Scan# 1645  
Delta R.T. -0.000 min  
Lab File: BN037148.D  
Acq: 03 Jun 2025 14:38

Tgt Ion:284 Resp: 13101  
Ion Ratio Lower Upper  
284 100  
142 53.4 44.0 66.0  
249 36.5 29.7 44.5

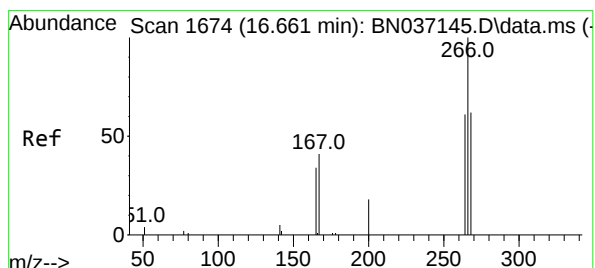
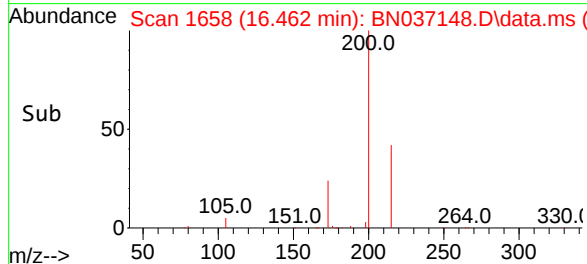
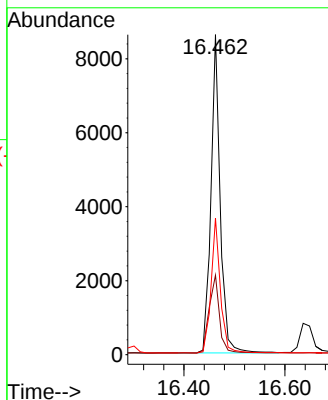
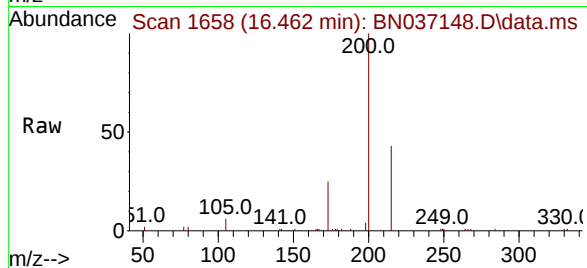




#23  
Atrazine  
Concen: 3.524 ng  
RT: 16.462 min Scan# 1658  
Delta R.T. -0.000 min  
Lab File: BN037148.D  
Acq: 03 Jun 2025 14:38

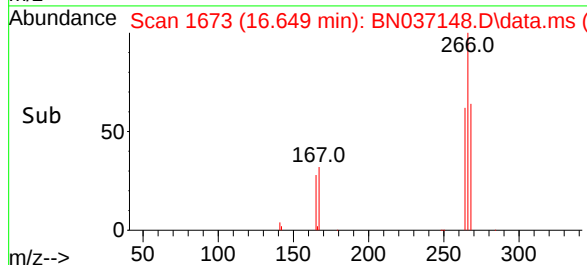
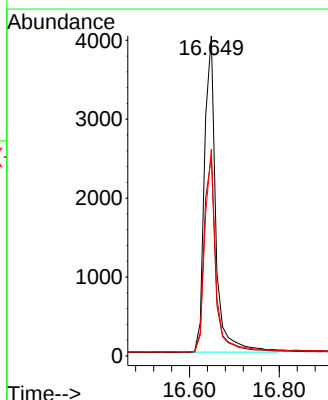
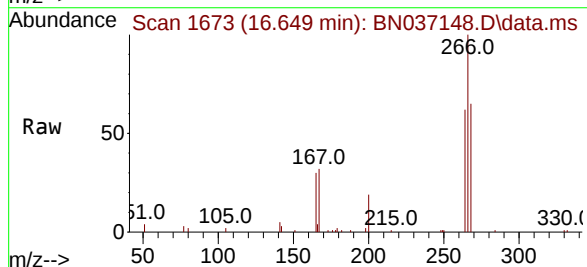
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC3.2

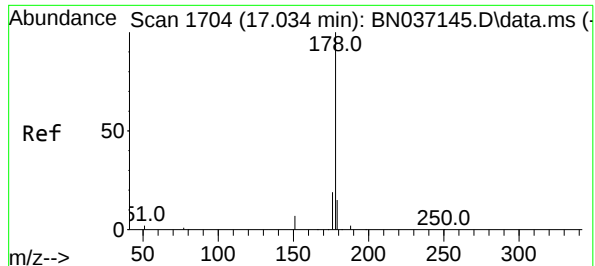
Tgt Ion:200 Resp: 10979  
Ion Ratio Lower Upper  
200 100  
173 24.8 28.1 42.1#  
215 42.7 39.3 58.9



#24  
Pentachlorophenol  
Concen: 3.108 ng  
RT: 16.649 min Scan# 1673  
Delta R.T. -0.012 min  
Lab File: BN037148.D  
Acq: 03 Jun 2025 14:38

Tgt Ion:266 Resp: 7055  
Ion Ratio Lower Upper  
266 100  
264 63.3 49.3 73.9  
268 63.1 49.0 73.4





#25

Phenanthrene

Concen: 3.350 ng

RT: 17.033 min Scan# 1704

Delta R.T. -0.000 min

Lab File: BN037148.D

Acq: 03 Jun 2025 14:38

Instrument :

BNA\_N

ClientSampleId :

SSTDICC3.2

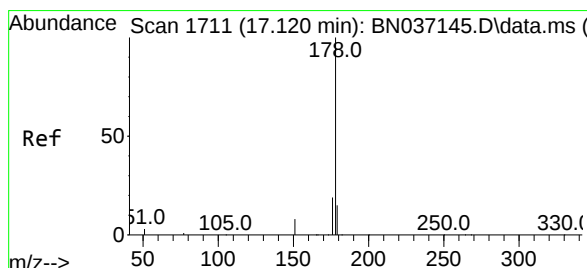
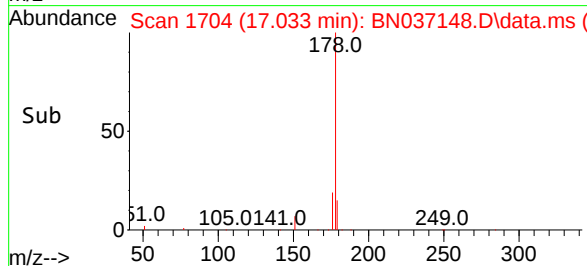
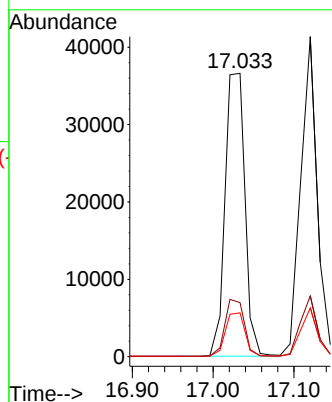
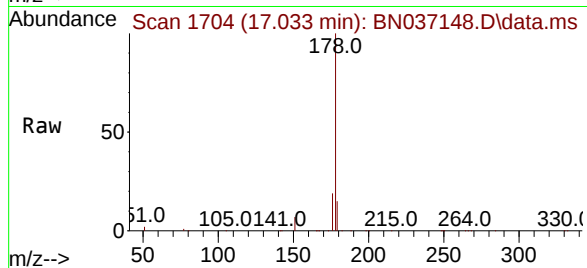
Tgt Ion:178 Resp: 62481

Ion Ratio Lower Upper

178 100

176 19.6 15.7 23.5

179 15.1 12.3 18.5



#26

Anthracene

Concen: 3.490 ng

RT: 17.120 min Scan# 1711

Delta R.T. -0.000 min

Lab File: BN037148.D

Acq: 03 Jun 2025 14:38

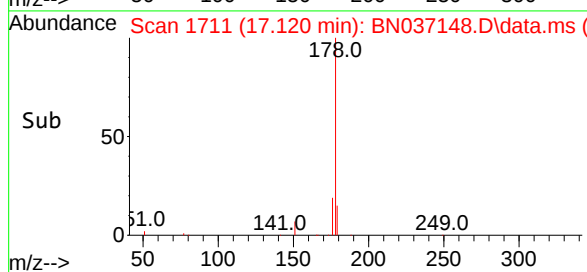
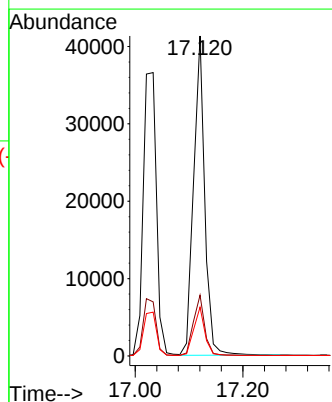
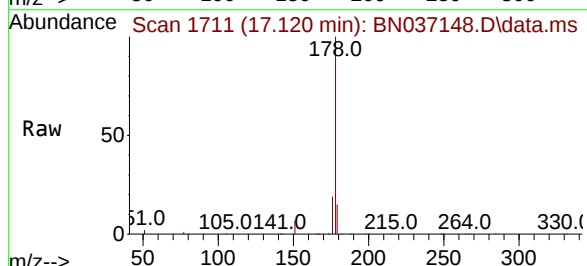
Tgt Ion:178 Resp: 59394

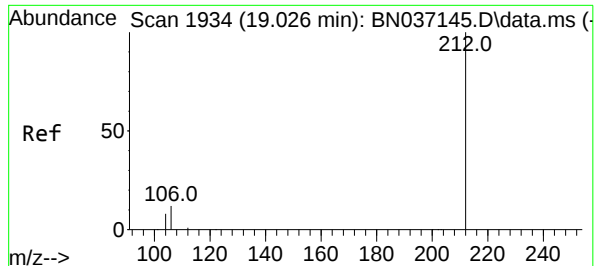
Ion Ratio Lower Upper

178 100

176 19.1 15.2 22.8

179 15.2 12.9 19.3





#27

Fluoranthene-d10

Concen: 3.373 ng

RT: 19.026 min Scan# 1934

Delta R.T. -0.000 min

Lab File: BN037148.D

Acq: 03 Jun 2025 14:38

Instrument :

BNA\_N

ClientSampleId :

SSTDICC3.2

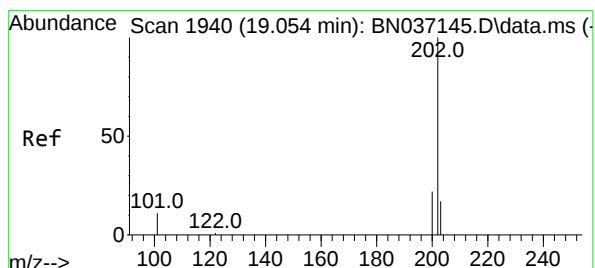
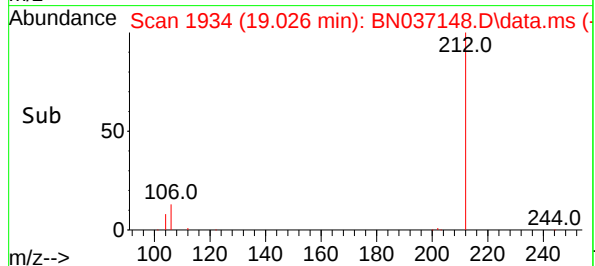
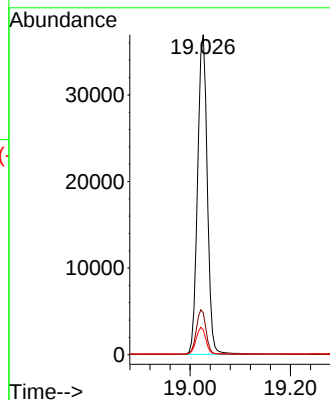
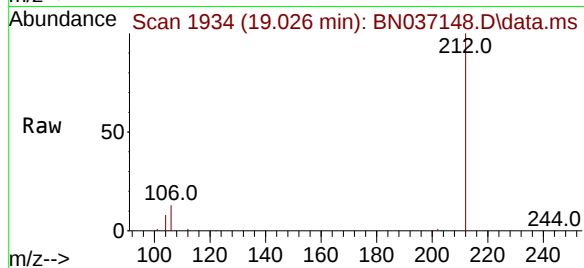
Tgt Ion:212 Resp: 49341

Ion Ratio Lower Upper

212 100

106 13.9 10.6 15.8

104 8.4 6.6 9.8



#28

Fluoranthene

Concen: 3.495 ng

RT: 19.054 min Scan# 1940

Delta R.T. -0.000 min

Lab File: BN037148.D

Acq: 03 Jun 2025 14:38

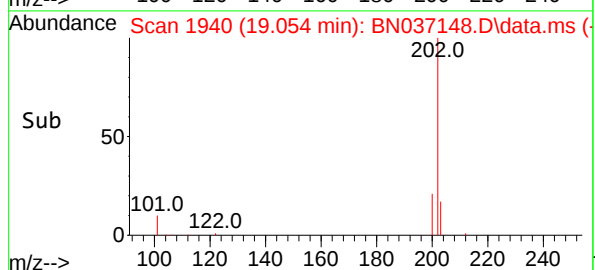
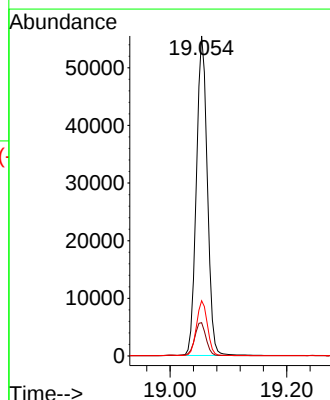
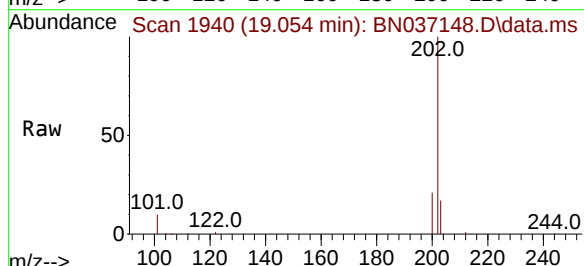
Tgt Ion:202 Resp: 72004

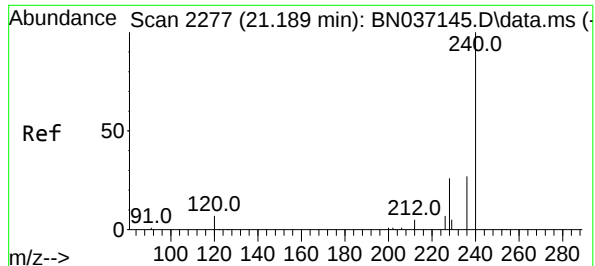
Ion Ratio Lower Upper

202 100

101 10.9 8.7 13.1

203 17.2 13.5 20.3





#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.180 min Scan# 21

Delta R.T. -0.009 min

Lab File: BN037148.D

Acq: 03 Jun 2025 14:38

Instrument :

BNA\_N

ClientSampleId :

SSTDICC3.2

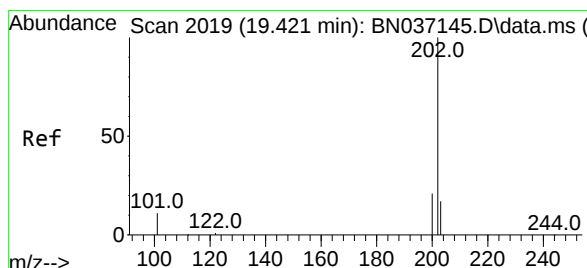
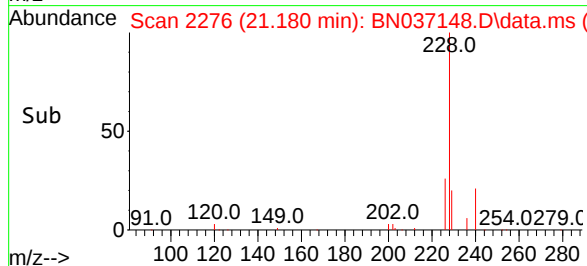
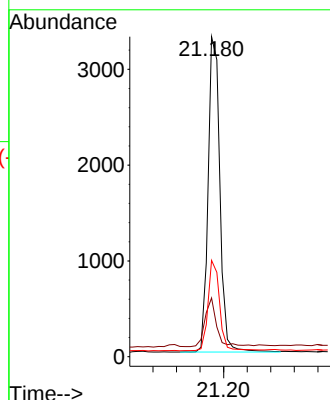
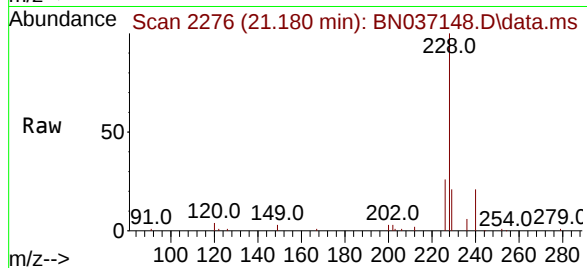
Tgt Ion:240 Resp: 4564

Ion Ratio Lower Upper

240 100

120 18.4 9.0 13.4#

236 30.1 23.0 34.4



#30

Pyrene

Concen: 3.205 ng

RT: 19.416 min Scan# 2018

Delta R.T. -0.005 min

Lab File: BN037148.D

Acq: 03 Jun 2025 14:38

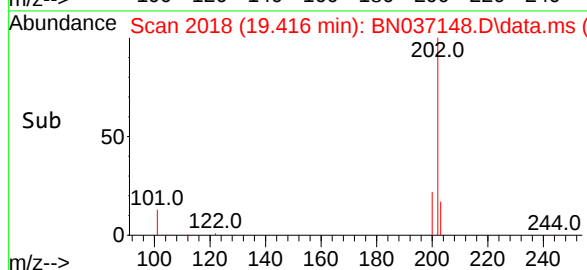
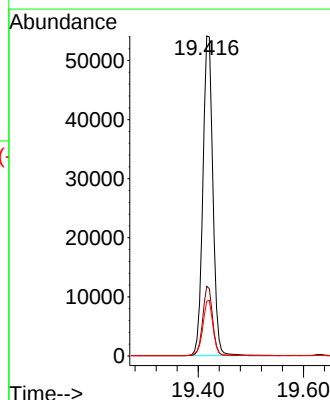
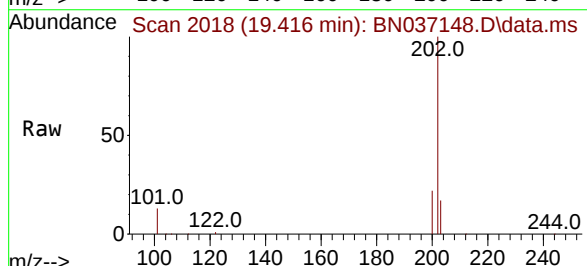
Tgt Ion:202 Resp: 71397

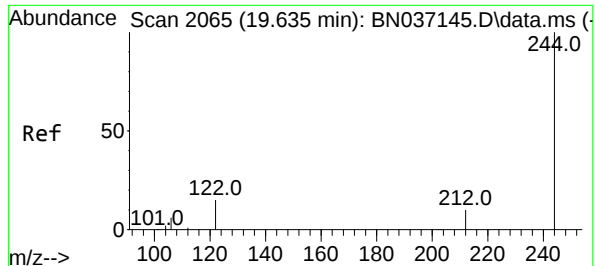
Ion Ratio Lower Upper

202 100

200 21.5 17.0 25.6

203 17.7 14.2 21.4

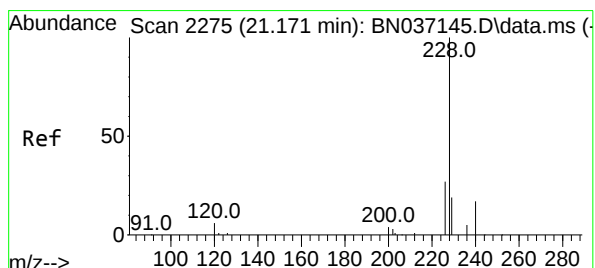
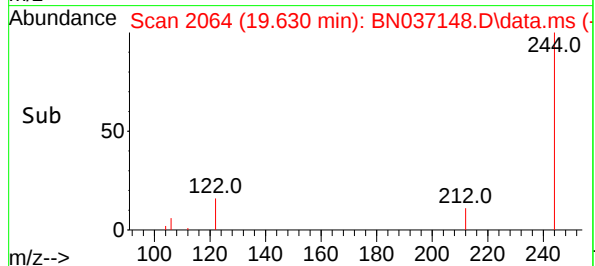
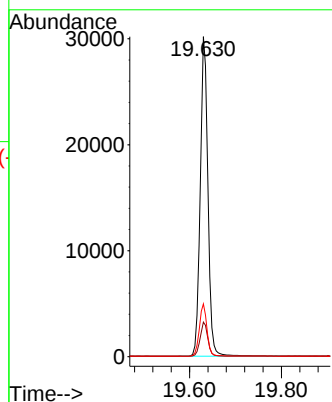
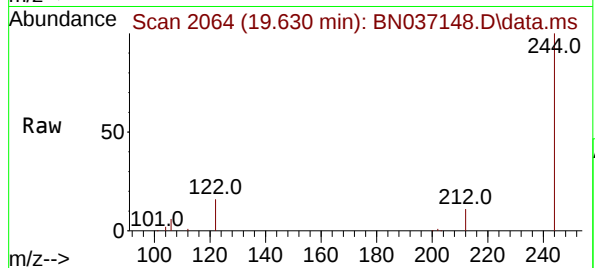




#31  
Terphenyl-d14  
Concen: 3.237 ng  
RT: 19.630 min Scan# 2064  
Delta R.T. -0.005 min  
Lab File: BN037148.D  
Acq: 03 Jun 2025 14:38

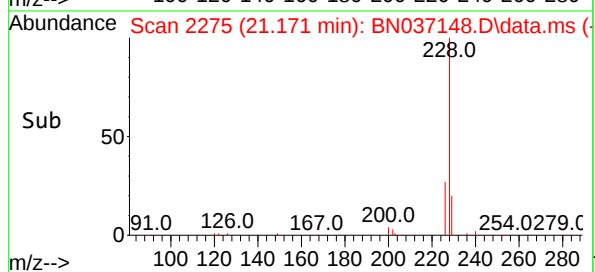
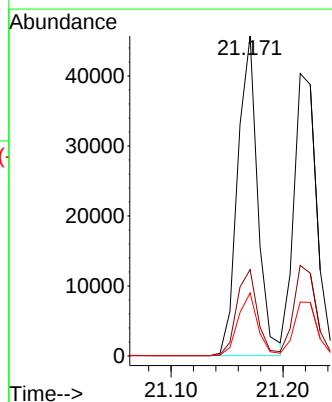
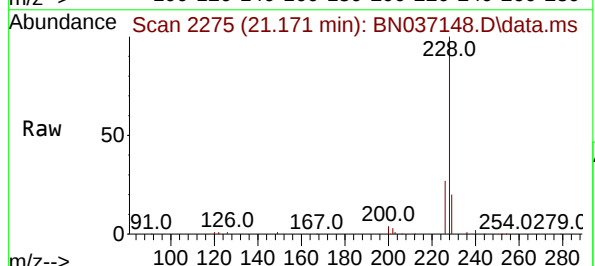
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC3.2

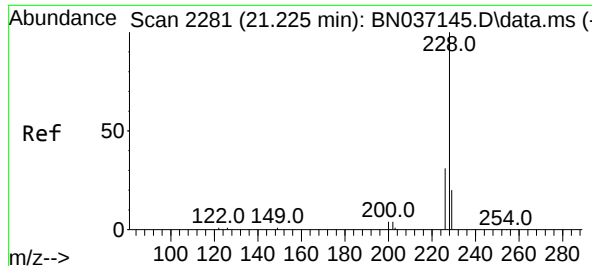
Tgt Ion:244 Resp: 34773  
Ion Ratio Lower Upper  
244 100  
212 10.8 10.0 15.0  
122 16.5 13.2 19.8



#32  
Benzo(a)anthracene  
Concen: 3.431 ng  
RT: 21.171 min Scan# 2275  
Delta R.T. -0.000 min  
Lab File: BN037148.D  
Acq: 03 Jun 2025 14:38

Tgt Ion:228 Resp: 56691  
Ion Ratio Lower Upper  
228 100  
226 27.0 22.6 33.8  
229 19.7 16.2 24.2





#33

Chrysene

Concen: 3.144 ng

RT: 21.215 min Scan# 21

Delta R.T. -0.009 min

Lab File: BN037148.D

Acq: 03 Jun 2025 14:38

Instrument :

BNA\_N

ClientSampleId :

SSTDICC3.2

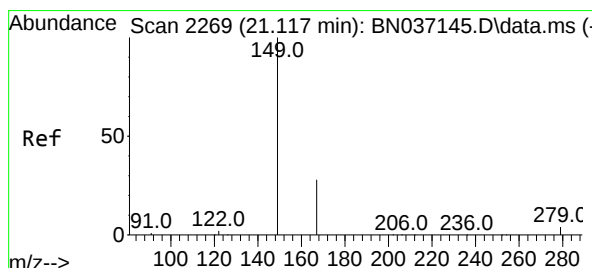
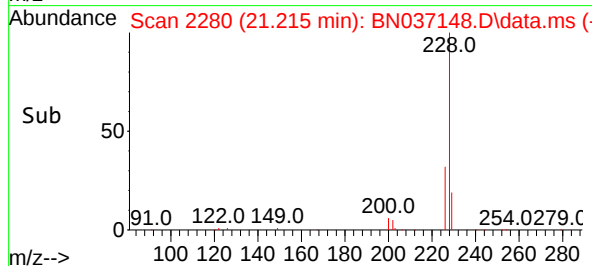
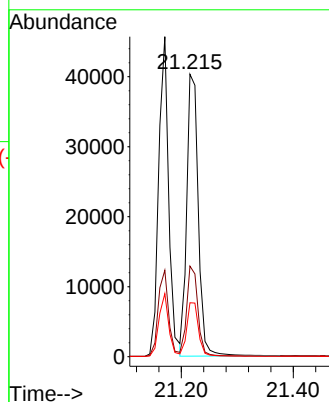
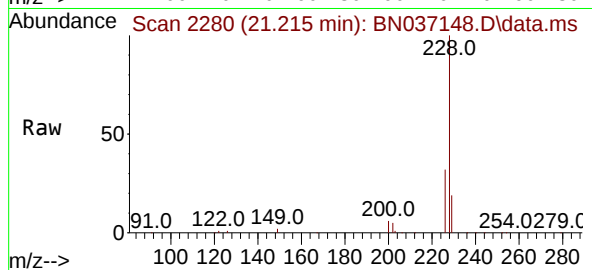
Tgt Ion:228 Resp: 57833

Ion Ratio Lower Upper

228 100

226 32.0 25.2 37.8

229 19.1 16.8 25.2



#34

Bis(2-ethylhexyl)phthalate

Concen: 3.201 ng

RT: 21.117 min Scan# 2269

Delta R.T. -0.000 min

Lab File: BN037148.D

Acq: 03 Jun 2025 14:38

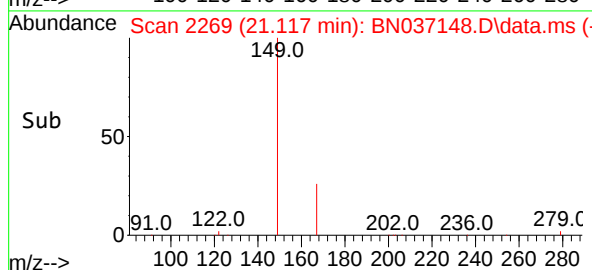
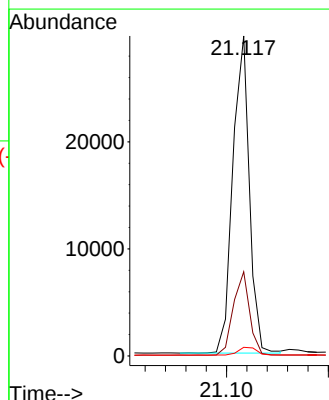
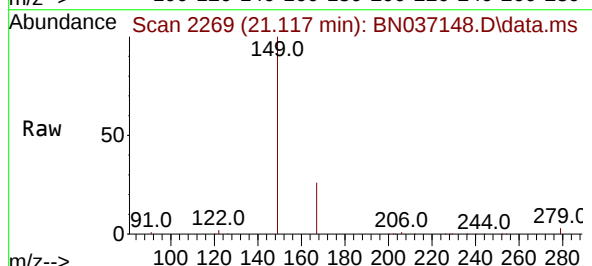
Tgt Ion:149 Resp: 33369

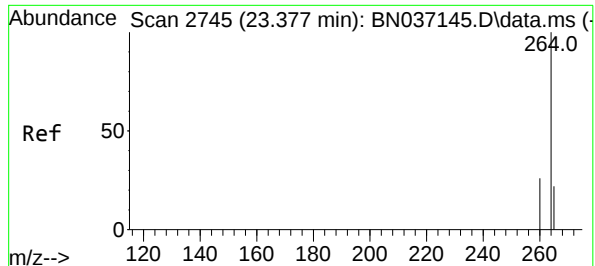
Ion Ratio Lower Upper

149 100

167 25.9 21.0 31.4

279 2.8 2.9 4.3#





#35

Perylene-d12

Concen: 0.400 ng

RT: 23.377 min Scan# 21

Delta R.T. -0.000 min

Lab File: BN037148.D

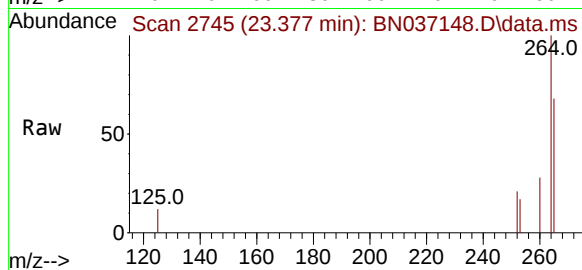
Acq: 03 Jun 2025 14:38

Instrument :

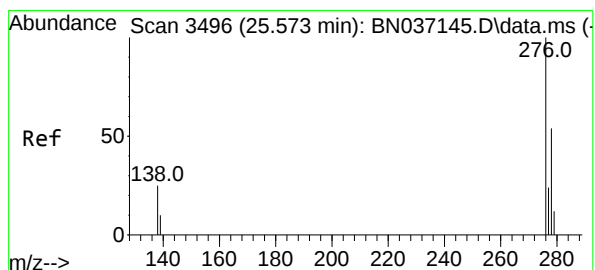
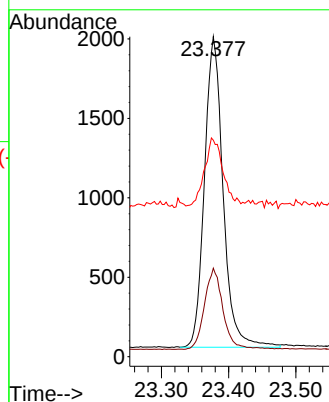
BNA\_N

ClientSampleId :

SSTDICC3.2



|           |       |       |      |
|-----------|-------|-------|------|
| Tgt Ion:  | 264   | Resp: | 3760 |
| Ion Ratio | Lower | Upper |      |
| 264       | 100   |       |      |
| 260       | 27.7  | 22.1  | 33.1 |
| 265       | 67.7  | 55.8  | 83.8 |



#36

Indeno(1,2,3-cd)pyrene

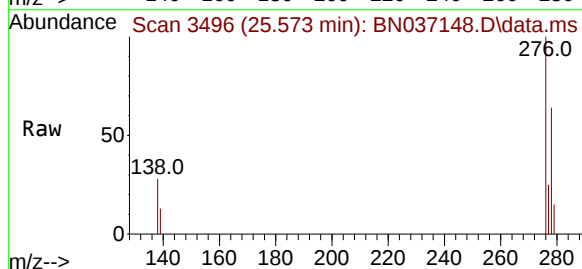
Concen: 3.364 ng

RT: 25.573 min Scan# 3496

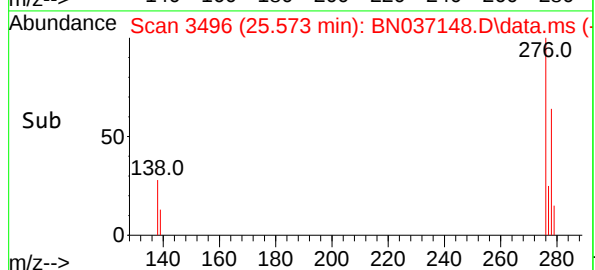
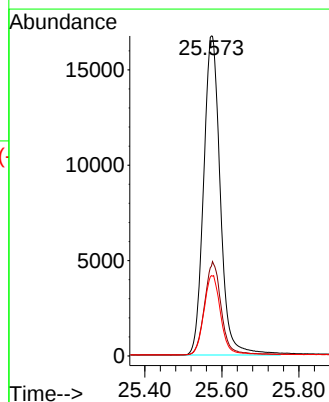
Delta R.T. -0.000 min

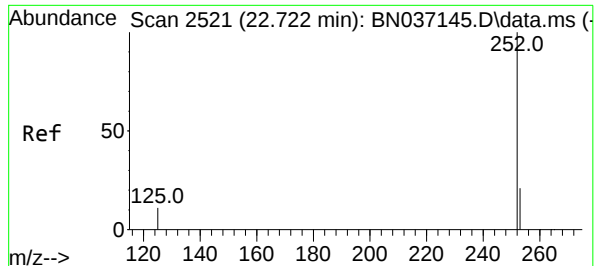
Lab File: BN037148.D

Acq: 03 Jun 2025 14:38



|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 276   | Resp: | 50327 |
| Ion Ratio | Lower | Upper |       |
| 276       | 100   |       |       |
| 138       | 29.0  | 21.0  | 31.6  |
| 277       | 24.9  | 19.4  | 29.2  |





#37

Benzo(b)fluoranthene

Concen: 3.395 ng

RT: 22.722 min Scan# 2521

Delta R.T. -0.000 min

Lab File: BN037148.D

Acq: 03 Jun 2025 14:38

Instrument :

BNA\_N

ClientSampleId :

SSTDICC3.2

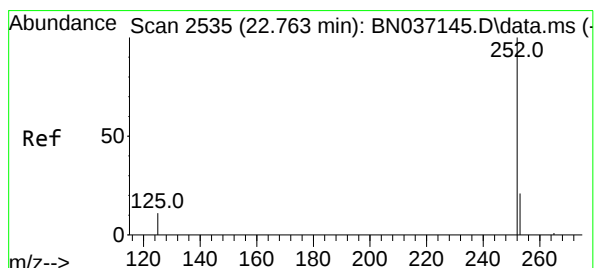
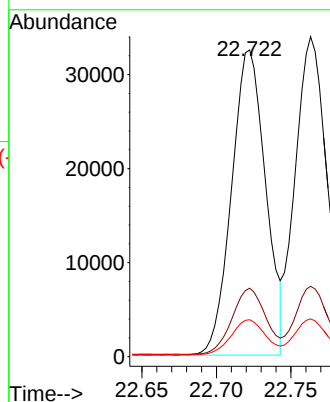
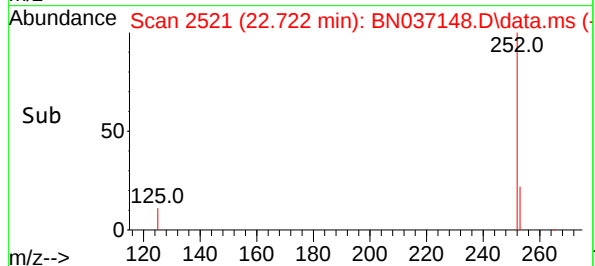
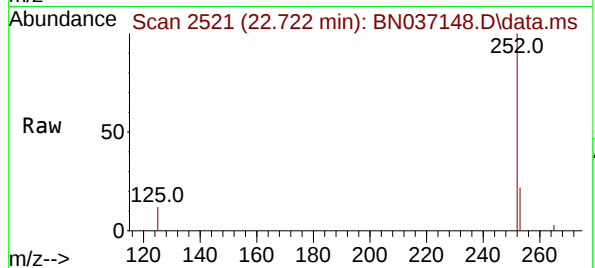
Tgt Ion:252 Resp: 51531

Ion Ratio Lower Upper

252 100

253 22.3 22.3 33.5

125 12.0 13.2 19.8#



#38

Benzo(k)fluoranthene

Concen: 3.384 ng

RT: 22.763 min Scan# 2535

Delta R.T. -0.000 min

Lab File: BN037148.D

Acq: 03 Jun 2025 14:38

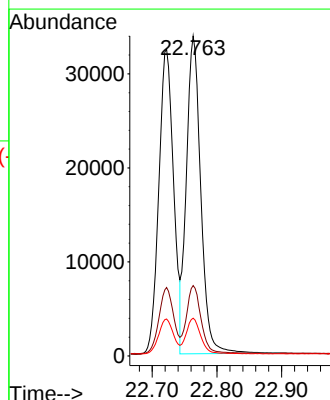
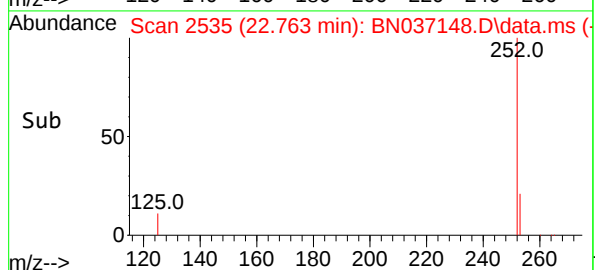
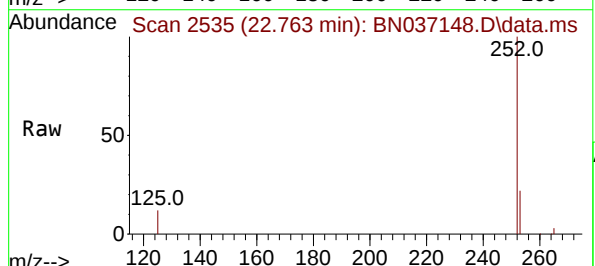
Tgt Ion:252 Resp: 52430

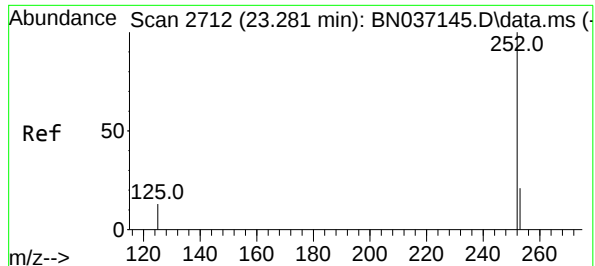
Ion Ratio Lower Upper

252 100

253 22.0 22.2 33.4#

125 11.8 13.2 19.8#





#39

Benzo(a)pyrene

Concen: 3.374 ng

RT: 23.281 min Scan# 21

Delta R.T. -0.000 min

Lab File: BN037148.D

Acq: 03 Jun 2025 14:38

Instrument :

BNA\_N

ClientSampleId :

SSTDICC3.2

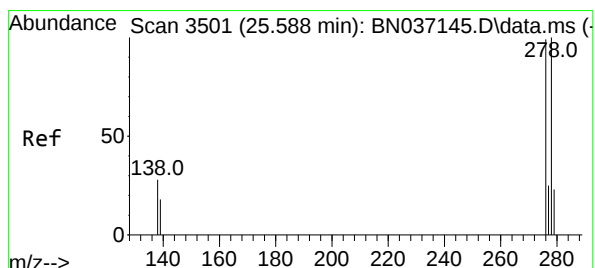
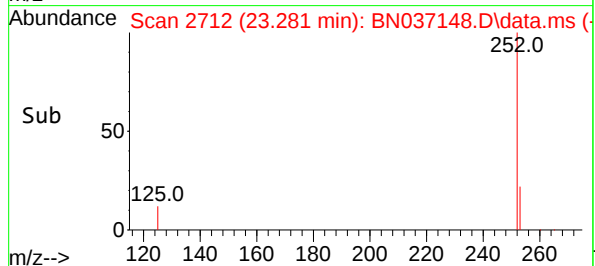
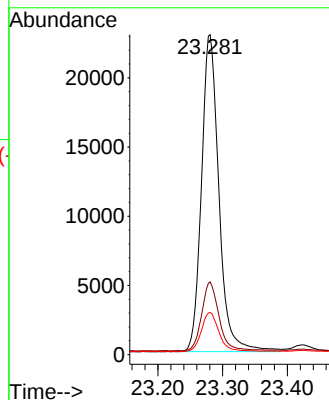
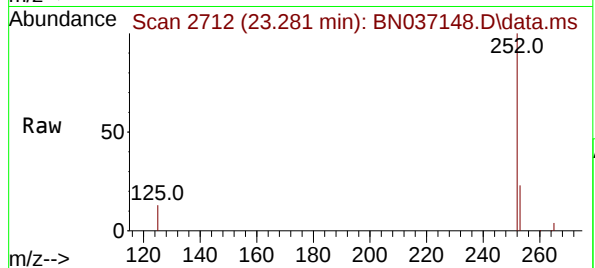
Tgt Ion:252 Resp: 42893

Ion Ratio Lower Upper

252 100

253 22.8 25.0 37.4#

125 13.2 17.0 25.6#



#40

Dibenzo(a,h)anthracene

Concen: 3.474 ng

RT: 25.587 min Scan# 3501

Delta R.T. -0.000 min

Lab File: BN037148.D

Acq: 03 Jun 2025 14:38

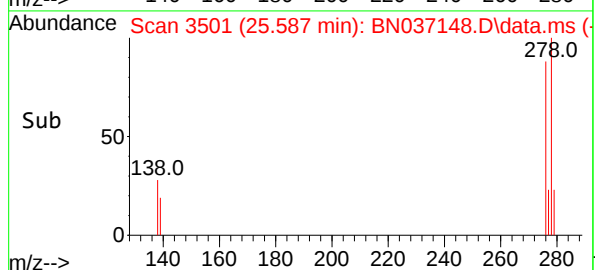
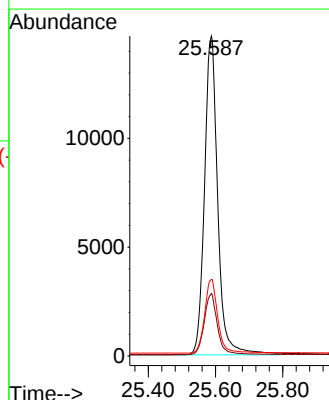
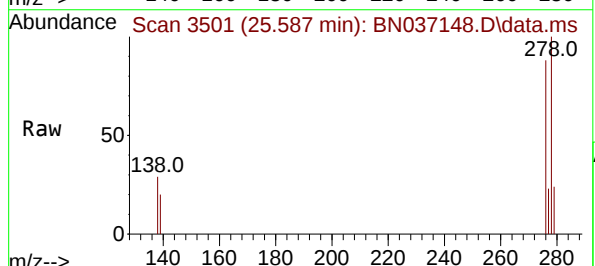
Tgt Ion:278 Resp: 40079

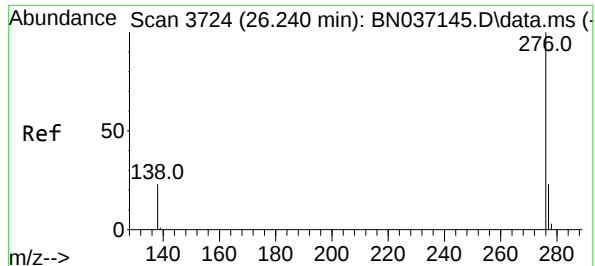
Ion Ratio Lower Upper

278 100

139 19.6 17.6 26.4

279 23.9 26.0 39.0#





#41

Benzo(g,h,i)perylene

Concen: 3.233 ng

RT: 26.239 min Scan# 31

Delta R.T. -0.000 min

Lab File: BN037148.D

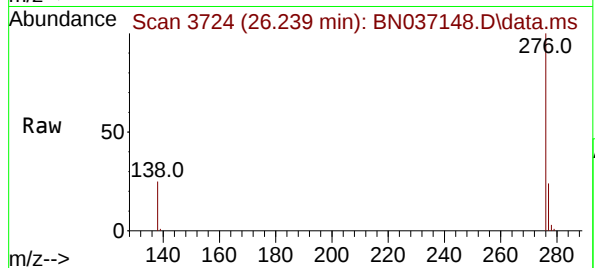
Acq: 03 Jun 2025 14:38

Instrument :

BNA\_N

ClientSampleId :

SSTDICC3.2



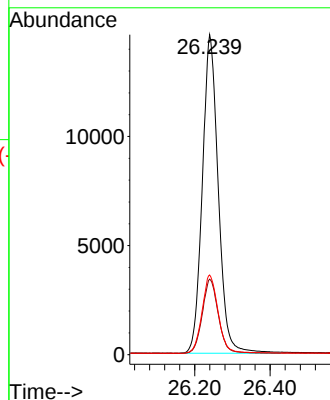
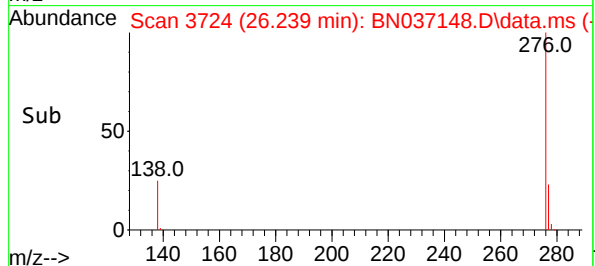
Tgt Ion:276 Resp: 42842

Ion Ratio Lower Upper

276 100

277 23.6 20.9 31.3

138 24.9 20.8 31.2



Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN060325\  
 Data File : BN037149.D  
 Acq On : 03 Jun 2025 15:14  
 Operator : RC/JU  
 Sample : SSTDICC5.0  
 Misc :  
 ALS Vial : 8 Sample Multiplier: 1

Instrument :  
 BNA\_N  
 ClientSampleId :  
 SSTDICC5.0

Quant Time: Jun 04 01:43:34 2025  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\8270-SIM-BN060325.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Wed Jun 04 01:40:18 2025  
 Response via : Initial Calibration

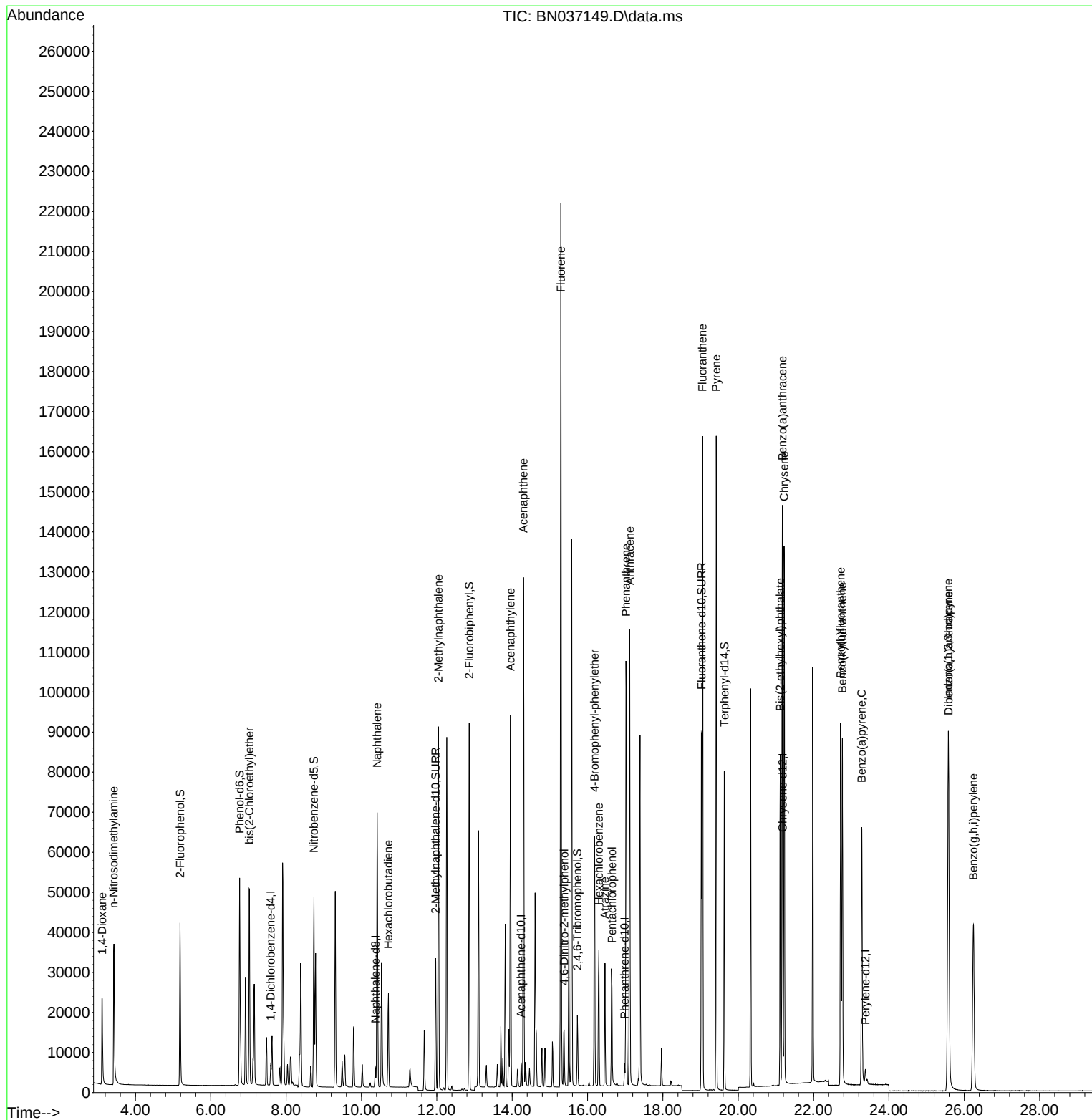
| Compound                      | R.T.   | QIon | Response | Conc  | Units | Dev(Min)  |
|-------------------------------|--------|------|----------|-------|-------|-----------|
| Internal Standards            |        |      |          |       |       |           |
| 1) 1,4-Dichlorobenzene-d4     | 7.589  | 152  | 2274     | 0.400 | ng    | 0.00      |
| 7) Naphthalene-d8             | 10.372 | 136  | 5863     | 0.400 | ng    | 0.00      |
| 13) Acenaphthene-d10          | 14.235 | 164  | 3467     | 0.400 | ng    | 0.00      |
| 19) Phenanthrene-d10          | 16.984 | 188  | 6764     | 0.400 | ng    | 0.00      |
| 29) Chrysene-d12              | 21.180 | 240  | 5784     | 0.400 | ng    | # 0.00    |
| 35) Perylene-d12              | 23.374 | 264  | 4620     | 0.400 | ng    | 0.00      |
| System Monitoring Compounds   |        |      |          |       |       |           |
| 4) 2-Fluorophenol             | 5.184  | 112  | 27710    | 4.928 | ng    | 0.00      |
| 5) Phenol-d6                  | 6.766  | 99   | 36531    | 5.359 | ng    | 0.00      |
| 8) Nitrobenzene-d5            | 8.739  | 82   | 32690    | 5.285 | ng    | 0.00      |
| 11) 2-Methylnaphthalene-d10   | 11.966 | 152  | 43118    | 5.283 | ng    | 0.00      |
| 14) 2,4,6-Tribromophenol      | 15.730 | 330  | 8081     | 5.789 | ng    | -0.01     |
| 15) 2-Fluorobiphenyl          | 12.858 | 172  | 74736    | 5.056 | ng    | 0.00      |
| 27) Fluoranthene-d10          | 19.026 | 212  | 94210    | 5.482 | ng    | 0.00      |
| 31) Terphenyl-d14             | 19.630 | 244  | 66718    | 4.900 | ng    | 0.00      |
| Target Compounds              |        |      |          |       |       |           |
| 2) 1,4-Dioxane                | 3.119  | 88   | 13025    | 4.297 | ng    | Qvalue 97 |
| 3) n-Nitrosodimethylamine     | 3.422  | 42   | 28752    | 4.724 | ng    | # 97      |
| 6) bis(2-Chloroethyl)ether    | 7.026  | 93   | 32562    | 5.006 | ng    | 97        |
| 9) Naphthalene                | 10.415 | 128  | 84983    | 5.024 | ng    | 96        |
| 10) Hexachlorobutadiene       | 10.714 | 225  | 17448    | 4.735 | ng    | # 99      |
| 12) 2-Methylnaphthalene       | 12.042 | 142  | 58095    | 5.358 | ng    | 96        |
| 16) Acenaphthylene            | 13.957 | 152  | 89938    | 5.291 | ng    | 99        |
| 17) Acenaphthene              | 14.299 | 154  | 57215    | 5.184 | ng    | 97        |
| 18) Fluorene                  | 15.293 | 166  | 75931    | 5.233 | ng    | 98        |
| 20) 4,6-Dinitro-2-methylph... | 15.378 | 198  | 9612     | 5.124 | ng    | # 31      |
| 21) 4-Bromophenyl-phenylether | 16.189 | 248  | 22933    | 5.173 | ng    | # 87      |
| 22) Hexachlorobenzene         | 16.301 | 284  | 23190    | 4.847 | ng    | 98        |
| 23) Atrazine                  | 16.463 | 200  | 20848    | 5.696 | ng    | # 87      |
| 24) Pentachlorophenol         | 16.649 | 266  | 13952    | 5.085 | ng    | 98        |
| 25) Phenanthrene              | 17.021 | 178  | 115105   | 5.252 | ng    | 99        |
| 26) Anthracene                | 17.120 | 178  | 111362   | 5.569 | ng    | 99        |
| 28) Fluoranthene              | 19.054 | 202  | 135672   | 5.604 | ng    | 99        |
| 30) Pyrene                    | 19.416 | 202  | 136281   | 4.827 | ng    | 100       |
| 32) Benzo(a)anthracene        | 21.171 | 228  | 113532   | 5.423 | ng    | 99        |
| 33) Chrysene                  | 21.216 | 228  | 112475   | 4.825 | ng    | 98        |
| 34) Bis(2-ethylhexyl)phtha... | 21.117 | 149  | 72476    | 5.486 | ng    | # 99      |
| 36) Indeno(1,2,3-cd)pyrene    | 25.573 | 276  | 97988    | 5.331 | ng    | 96        |
| 37) Benzo(b)fluoranthene      | 22.720 | 252  | 102873   | 5.516 | ng    | # 89      |
| 38) Benzo(k)fluoranthene      | 22.763 | 252  | 104252   | 5.475 | ng    | # 89      |
| 39) Benzo(a)pyrene            | 23.278 | 252  | 85510    | 5.474 | ng    | # 83      |
| 40) Dibenzo(a,h)anthracene    | 25.585 | 278  | 76694    | 5.411 | ng    | # 89      |
| 41) Benzo(g,h,i)perylene      | 26.243 | 276  | 82277    | 5.054 | ng    | 98        |

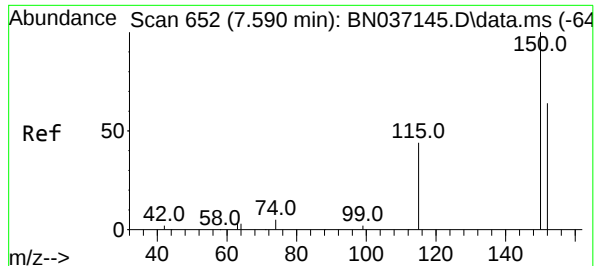
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN060325\  
Data File : BN037149.D  
Acq On : 03 Jun 2025 15:14  
Operator : RC/JU  
Sample : SSTDICC5.0  
Misc :  
ALS Vial : 8 Sample Multiplier: 1

Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC5.0

Quant Time: Jun 04 01:43:34 2025  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\8270-SIM-BN060325.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Wed Jun 04 01:40:18 2025  
Response via : Initial Calibration

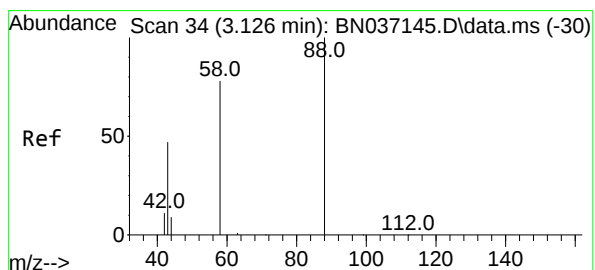
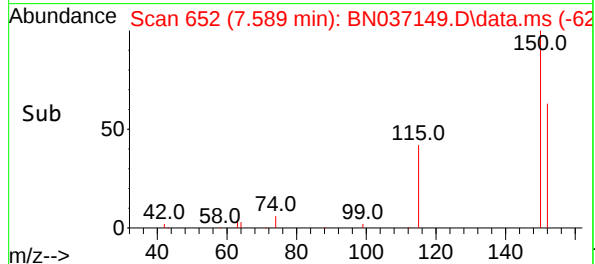
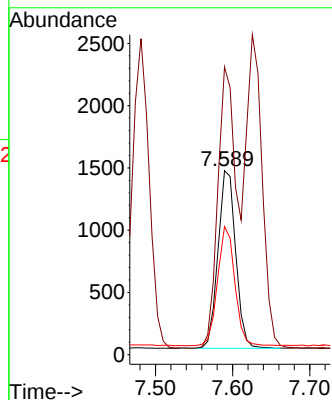
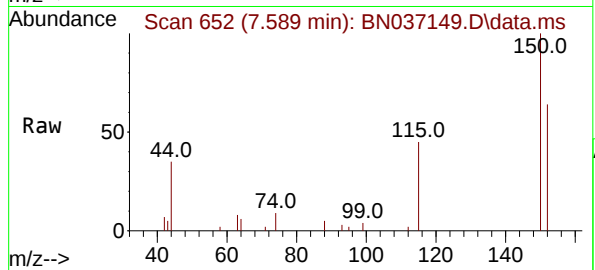




#1  
1,4-Dichlorobenzene-d4  
Concen: 0.400 ng  
RT: 7.589 min Scan# 61  
Delta R.T. -0.001 min  
Lab File: BN037149.D  
Acq: 03 Jun 2025 15:14

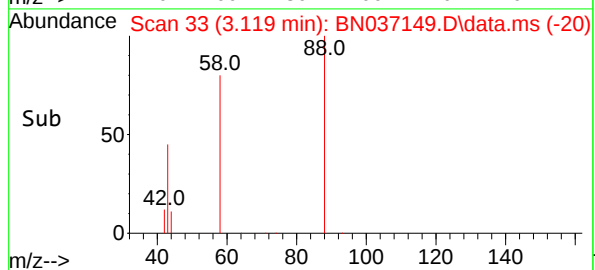
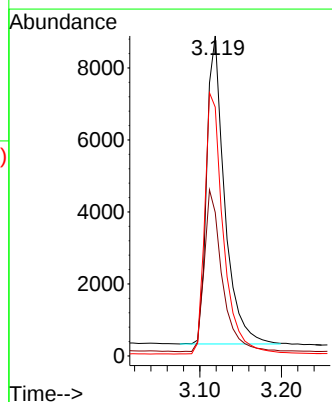
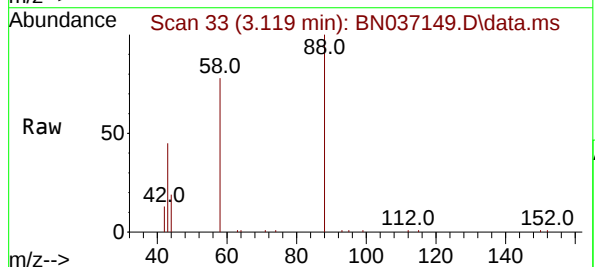
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC5.0

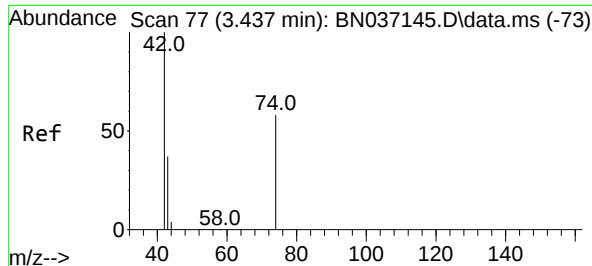
Tgt Ion:152 Resp: 2274  
Ion Ratio Lower Upper  
152 100  
150 156.4 123.2 184.8  
115 69.7 56.6 85.0



#2  
1,4-Dioxane  
Concen: 4.297 ng  
RT: 3.119 min Scan# 33  
Delta R.T. -0.007 min  
Lab File: BN037149.D  
Acq: 03 Jun 2025 15:14

Tgt Ion: 88 Resp: 13025  
Ion Ratio Lower Upper  
88 100  
43 52.8 43.5 65.3  
58 88.1 67.7 101.5

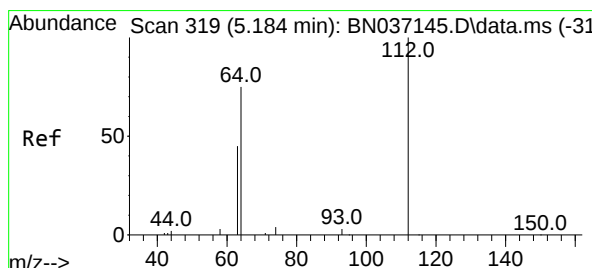
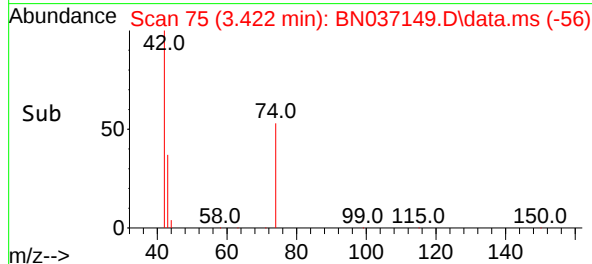
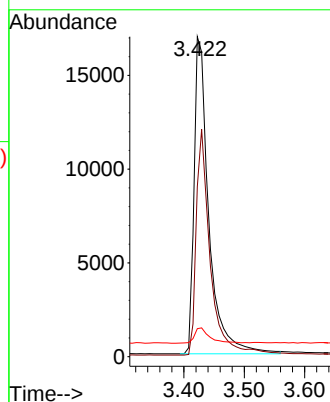
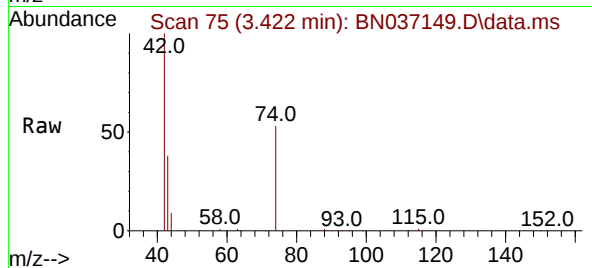




#3  
n-Nitrosodimethylamine  
Concen: 4.724 ng  
RT: 3.422 min Scan# 71  
Delta R.T. -0.015 min  
Lab File: BN037149.D  
Acq: 03 Jun 2025 15:14

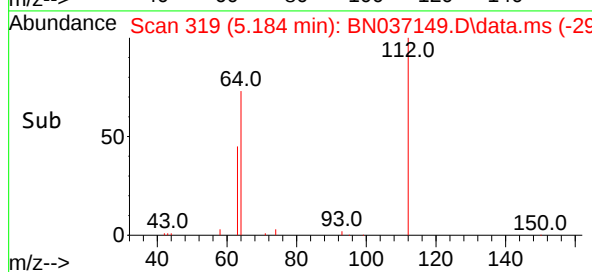
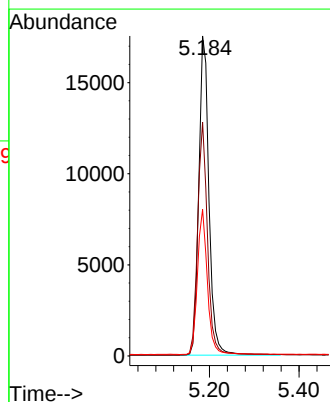
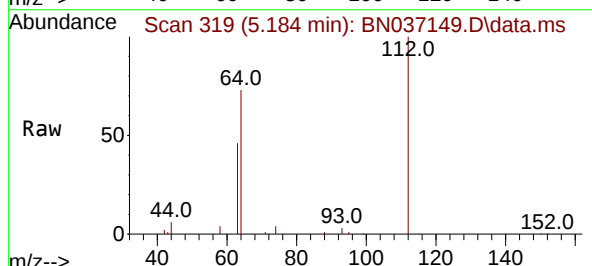
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC5.0

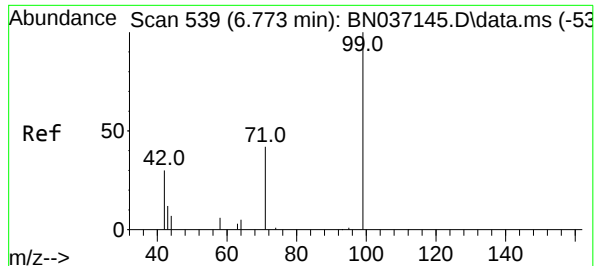
Tgt Ion: 42 Resp: 28752  
Ion Ratio Lower Upper  
42 100  
74 68.0 53.0 79.4  
44 5.0 5.9 8.9#



#4  
2-Fluorophenol  
Concen: 4.928 ng  
RT: 5.184 min Scan# 319  
Delta R.T. -0.000 min  
Lab File: BN037149.D  
Acq: 03 Jun 2025 15:14

Tgt Ion: 112 Resp: 27710  
Ion Ratio Lower Upper  
112 100  
64 70.9 56.3 84.5  
63 44.5 36.2 54.4

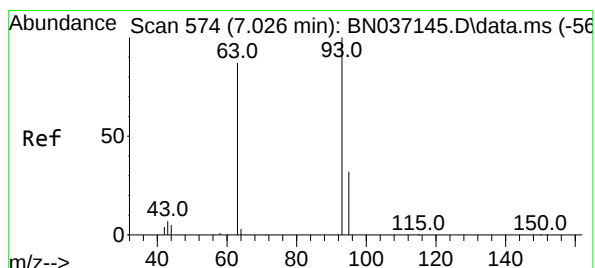
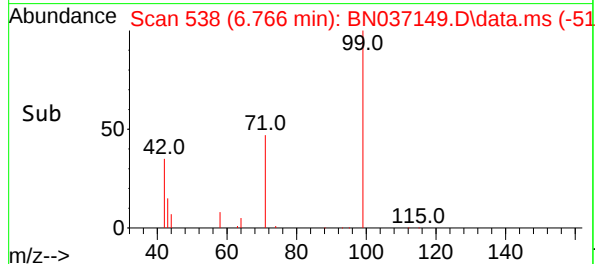
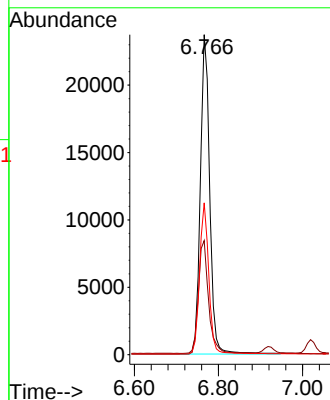
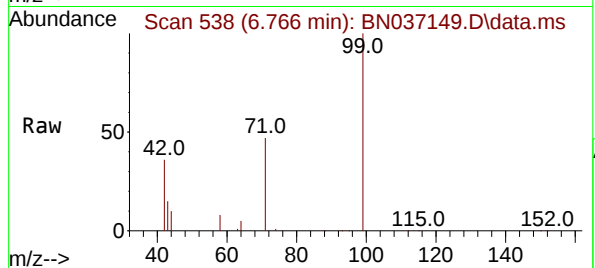




#5  
Phenol-d6  
Concen: 5.359 ng  
RT: 6.766 min Scan# 51  
Delta R.T. -0.007 min  
Lab File: BN037149.D  
Acq: 03 Jun 2025 15:14

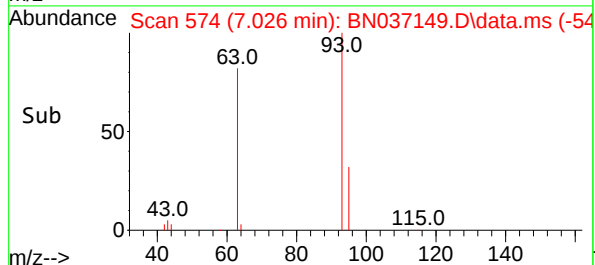
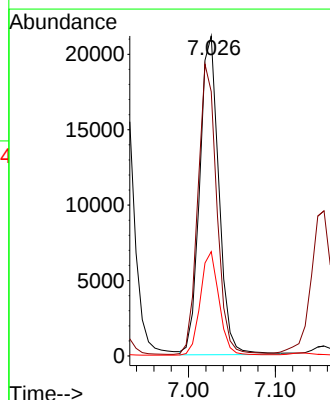
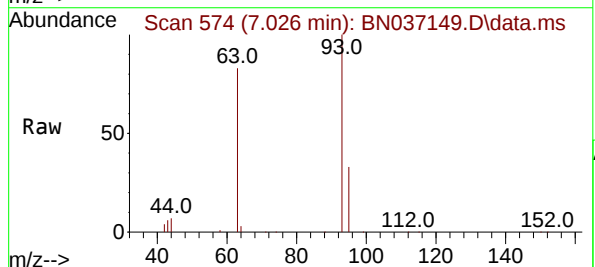
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC5.0

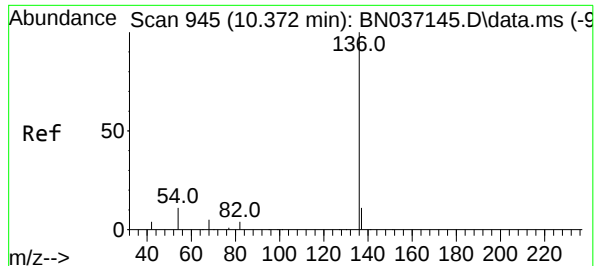
Tgt Ion: 99 Resp: 36531  
Ion Ratio Lower Upper  
99 100  
42 38.3 31.3 46.9  
71 46.9 38.2 57.2



#6  
bis(2-Chloroethyl)ether  
Concen: 5.006 ng  
RT: 7.026 min Scan# 574  
Delta R.T. -0.000 min  
Lab File: BN037149.D  
Acq: 03 Jun 2025 15:14

Tgt Ion: 93 Resp: 32562  
Ion Ratio Lower Upper  
93 100  
63 89.2 68.6 103.0  
95 31.7 24.3 36.5

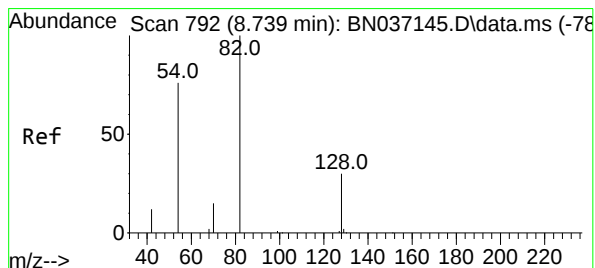
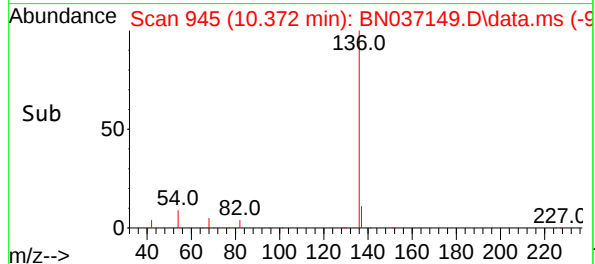
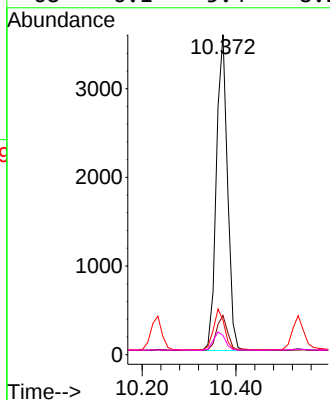
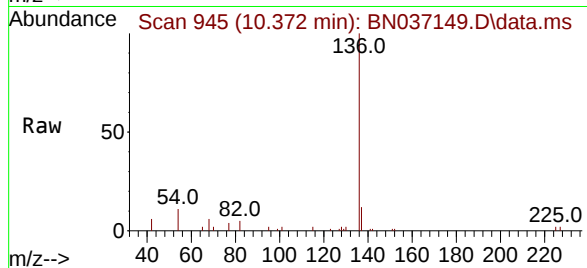




#7  
Naphthalene-d8  
Concen: 0.400 ng  
RT: 10.372 min Scan# 945  
Delta R.T. -0.000 min  
Lab File: BN037149.D  
Acq: 03 Jun 2025 15:14

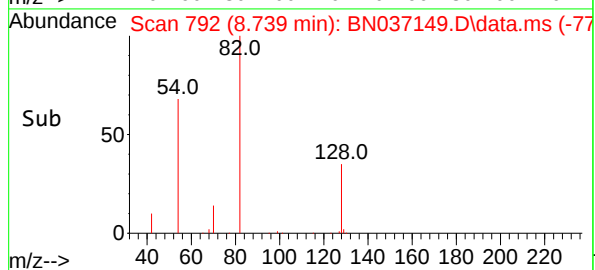
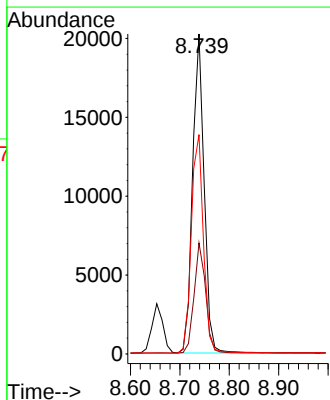
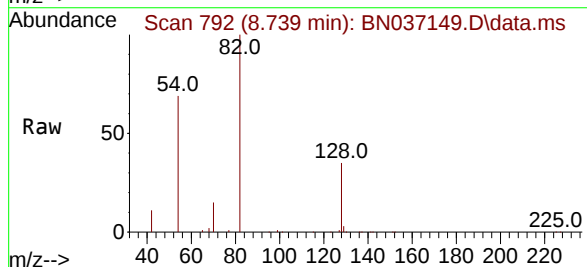
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC5.0

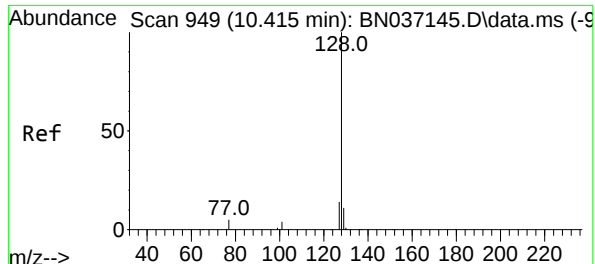
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 136   | Resp: | 5863  |
| Ion      | Ratio | Lower | Upper |
| 136      | 100   |       |       |
| 137      | 12.2  | 9.7   | 14.5  |
| 54       | 10.7  | 9.7   | 14.5  |
| 68       | 6.1   | 5.4   | 8.2   |



#8  
Nitrobenzene-d5  
Concen: 5.285 ng  
RT: 8.739 min Scan# 792  
Delta R.T. -0.000 min  
Lab File: BN037149.D  
Acq: 03 Jun 2025 15:14

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 82    | Resp: | 32690 |
| Ion      | Ratio | Lower | Upper |
| 82       | 100   |       |       |
| 128      | 34.7  | 26.9  | 40.3  |
| 54       | 68.6  | 61.4  | 92.2  |

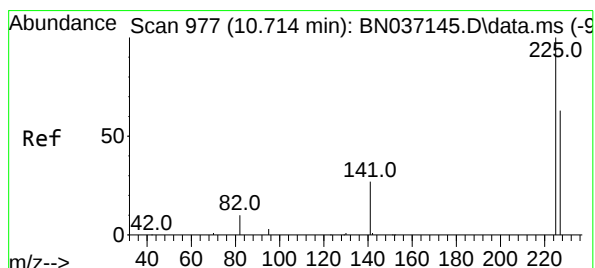
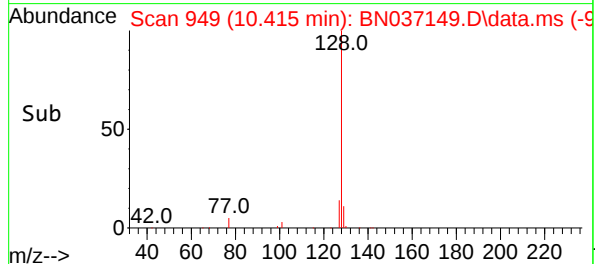
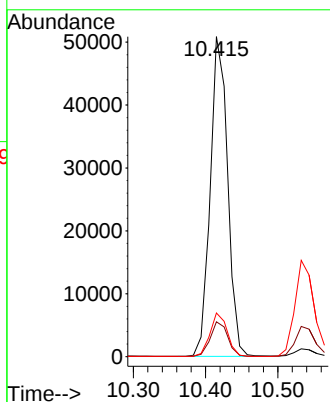
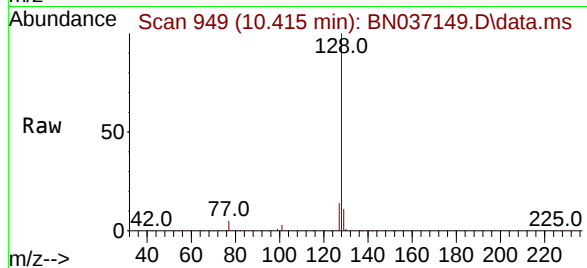




#9  
Naphthalene  
Concen: 5.024 ng  
RT: 10.415 min Scan# 949  
Delta R.T. -0.000 min  
Lab File: BN037149.D  
Acq: 03 Jun 2025 15:14

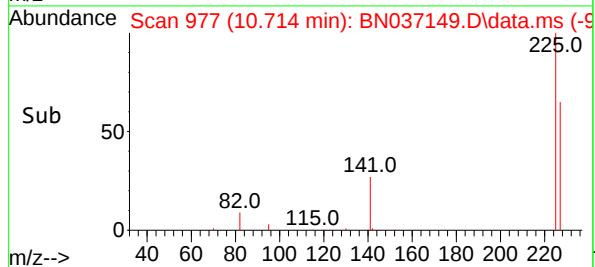
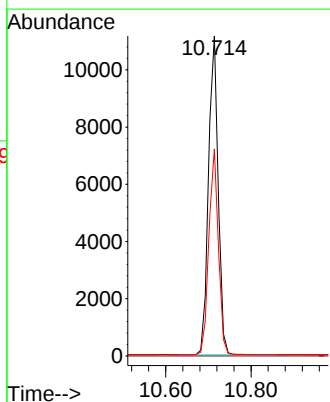
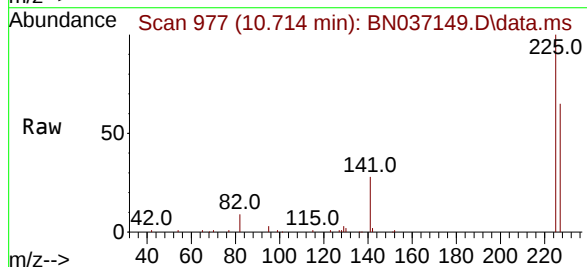
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC5.0

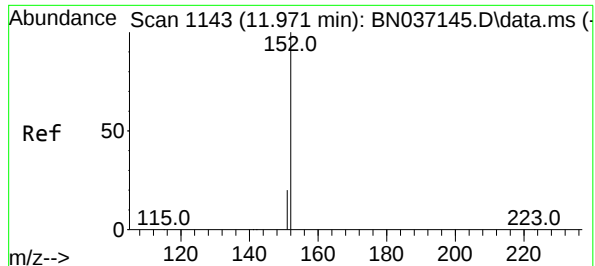
| Tgt Ion   | 128   | 129  | 127  |
|-----------|-------|------|------|
| Resp:     | 84983 |      |      |
| Ion Ratio | 100   | 10.9 | 13.6 |
| Lower     |       | 9.8  | 12.3 |
| Upper     |       | 14.8 | 18.5 |



#10  
Hexachlorobutadiene  
Concen: 4.735 ng  
RT: 10.714 min Scan# 977  
Delta R.T. -0.000 min  
Lab File: BN037149.D  
Acq: 03 Jun 2025 15:14

| Tgt Ion   | 225   | 223 | 227  |
|-----------|-------|-----|------|
| Resp:     | 17448 |     |      |
| Ion Ratio | 100   | 0.0 | 63.6 |
| Lower     |       | 0.0 | 50.3 |
| Upper     |       | 0.0 | 75.5 |

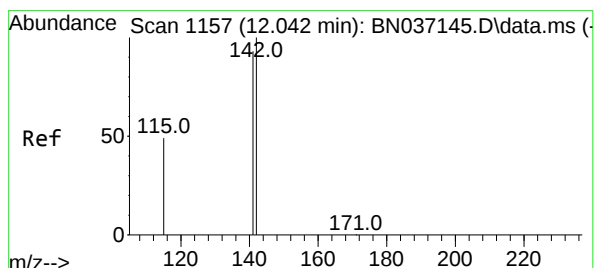
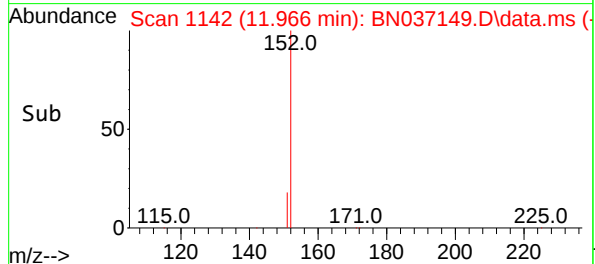
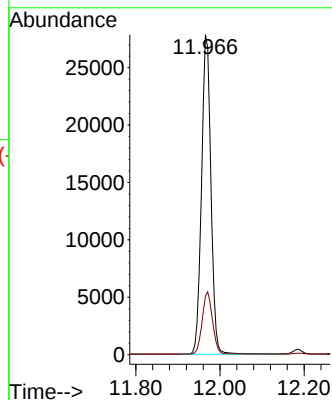
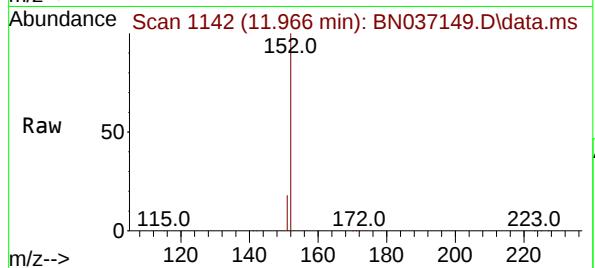




#11  
2-Methylnaphthalene-d10  
Concen: 5.283 ng  
RT: 11.966 min Scan# 1142  
Delta R.T. -0.005 min  
Lab File: BN037149.D  
Acq: 03 Jun 2025 15:14

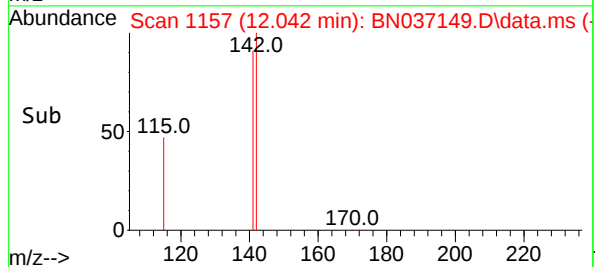
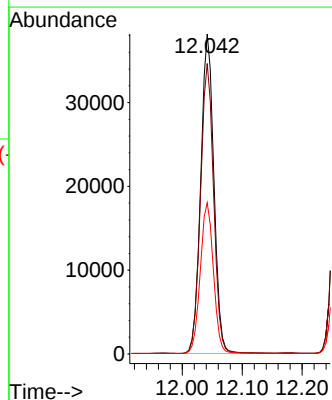
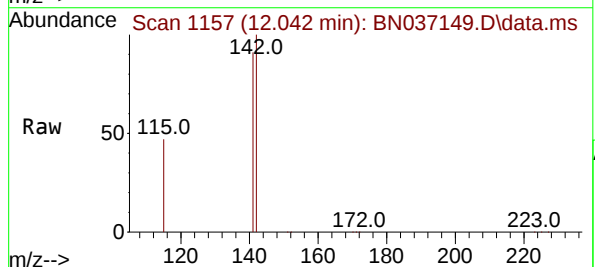
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC5.0

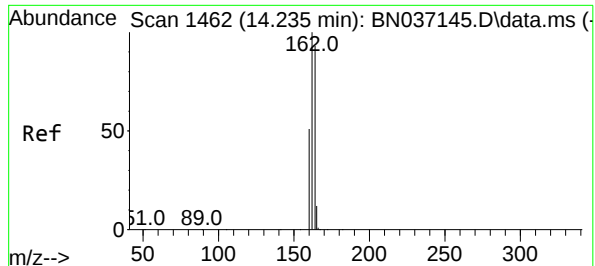
Tgt Ion:152 Resp: 43118  
Ion Ratio Lower Upper  
152 100  
151 21.3 17.1 25.7



#12  
2-Methylnaphthalene  
Concen: 5.358 ng  
RT: 12.042 min Scan# 1157  
Delta R.T. -0.000 min  
Lab File: BN037149.D  
Acq: 03 Jun 2025 15:14

Tgt Ion:142 Resp: 58095  
Ion Ratio Lower Upper  
142 100  
141 90.7 74.6 111.8  
115 47.2 41.0 61.4

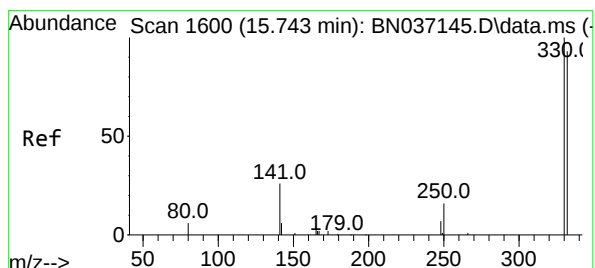
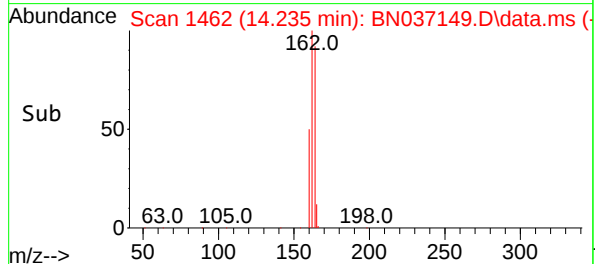
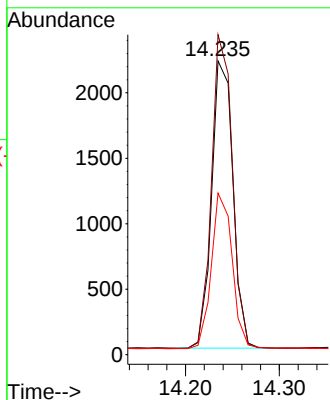
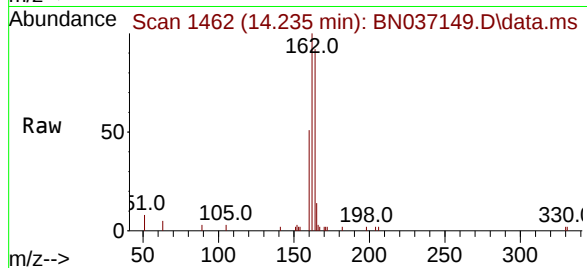




#13  
Acenaphthene-d10  
Concen: 0.400 ng  
RT: 14.235 min Scan# 1462  
Delta R.T. -0.000 min  
Lab File: BN037149.D  
Acq: 03 Jun 2025 15:14

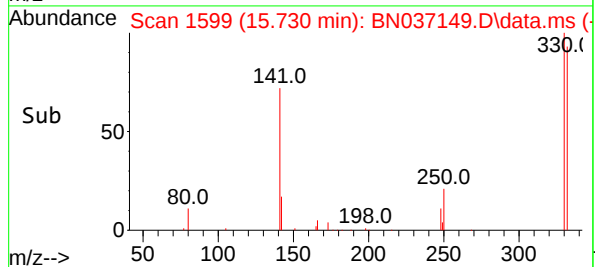
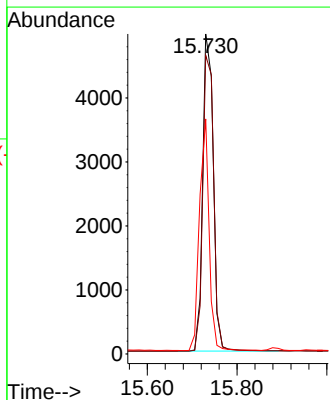
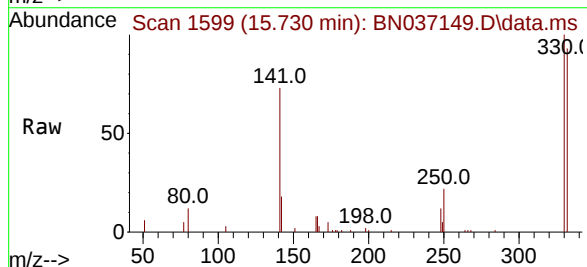
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC5.0

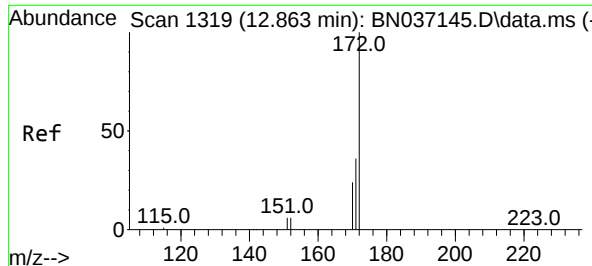
Tgt Ion:164 Resp: 3467  
Ion Ratio Lower Upper  
164 100  
162 108.9 85.5 128.3  
160 55.0 44.6 67.0



#14  
2,4,6-Tribromophenol  
Concen: 5.789 ng  
RT: 15.730 min Scan# 1599  
Delta R.T. -0.012 min  
Lab File: BN037149.D  
Acq: 03 Jun 2025 15:14

Tgt Ion:330 Resp: 8081  
Ion Ratio Lower Upper  
330 100  
332 96.5 77.1 115.7  
141 66.9 46.4 69.6





#15

2-Fluorobiphenyl

Concen: 5.056 ng

RT: 12.858 min Scan# 1318

Delta R.T. -0.005 min

Lab File: BN037149.D

Acq: 03 Jun 2025 15:14

Instrument :

BNA\_N

ClientSampleId :

SSTDICC5.0

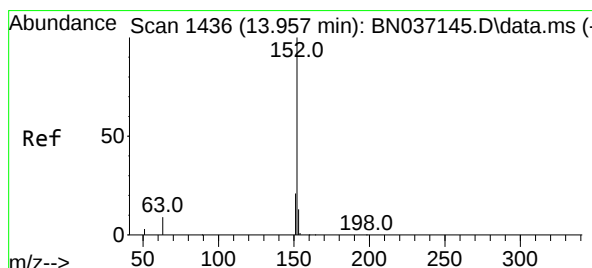
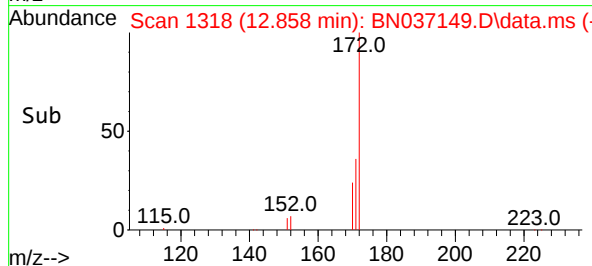
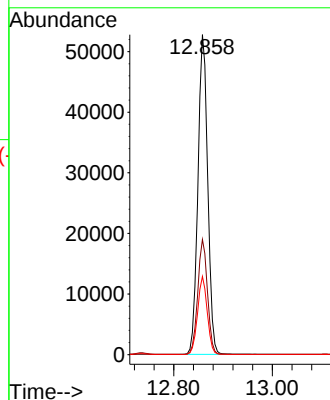
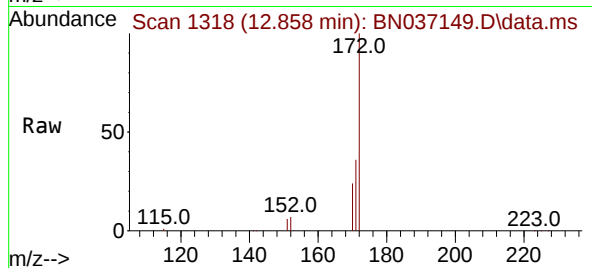
Tgt Ion:172 Resp: 74736

Ion Ratio Lower Upper

172 100

171 36.0 29.6 44.4

170 24.4 20.3 30.5



#16

Acenaphthylene

Concen: 5.291 ng

RT: 13.957 min Scan# 1436

Delta R.T. -0.000 min

Lab File: BN037149.D

Acq: 03 Jun 2025 15:14

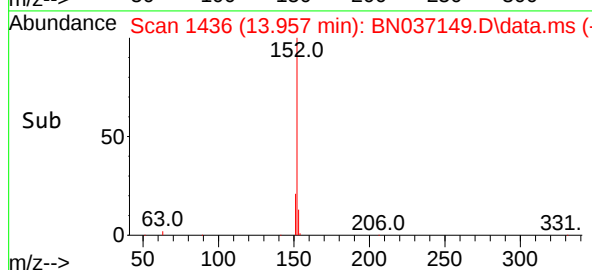
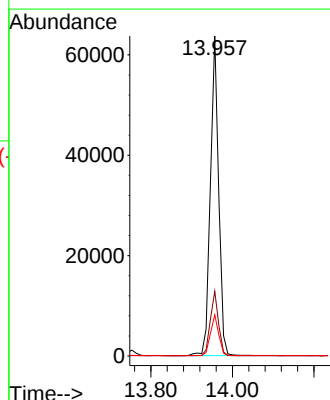
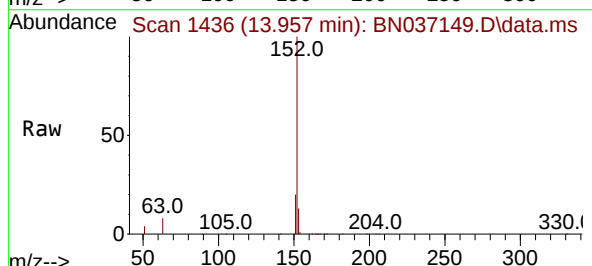
Tgt Ion:152 Resp: 89938

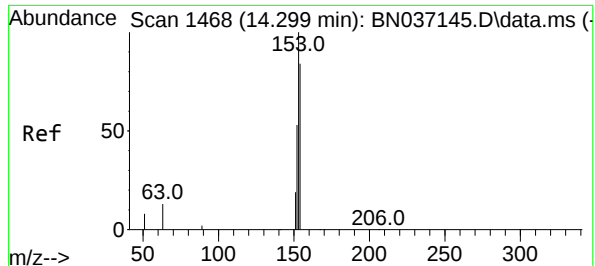
Ion Ratio Lower Upper

152 100

151 20.1 16.3 24.5

153 12.9 10.6 15.8





#17

Acenaphthene

Concen: 5.184 ng

RT: 14.299 min Scan# 1468

Delta R.T. -0.000 min

Lab File: BN037149.D

Acq: 03 Jun 2025 15:14

Instrument :

BNA\_N

ClientSampleId :

SSTDICC5.0

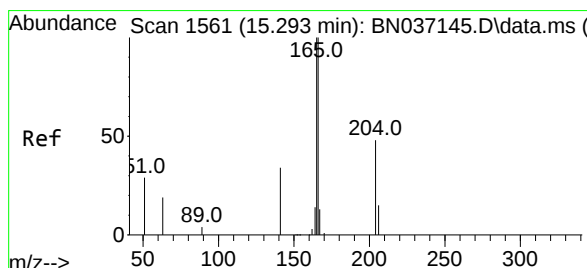
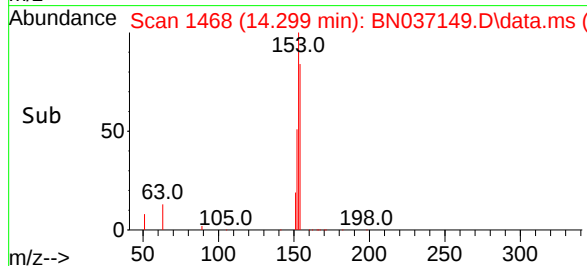
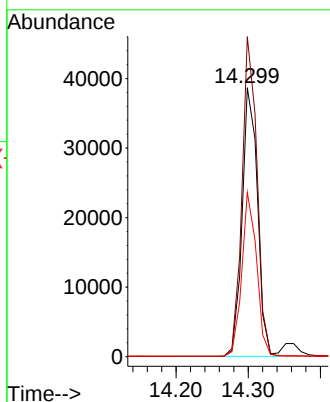
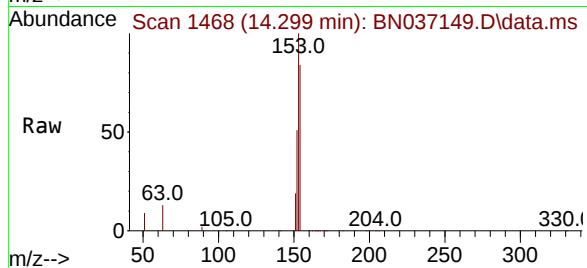
Tgt Ion:154 Resp: 57215

Ion Ratio Lower Upper

154 100

153 116.0 93.8 140.8

152 58.8 50.5 75.7



#18

Fluorene

Concen: 5.233 ng

RT: 15.293 min Scan# 1561

Delta R.T. -0.000 min

Lab File: BN037149.D

Acq: 03 Jun 2025 15:14

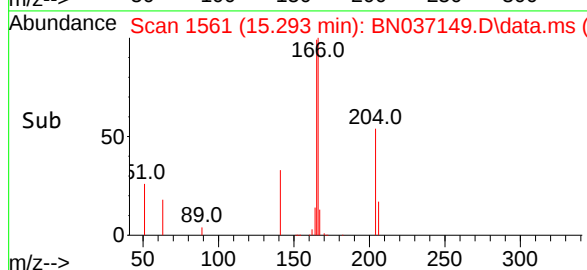
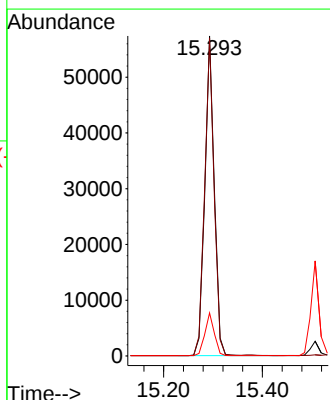
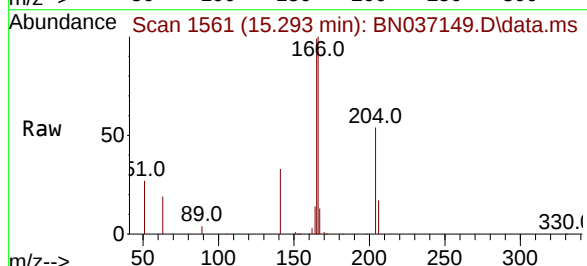
Tgt Ion:166 Resp: 75931

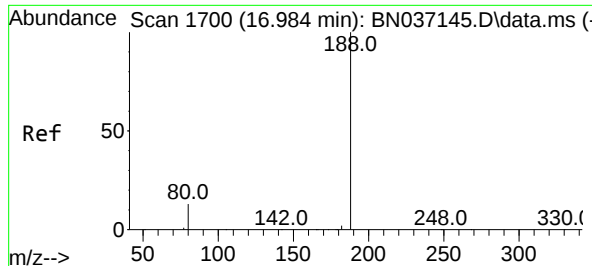
Ion Ratio Lower Upper

166 100

165 99.5 81.1 121.7

167 13.4 10.8 16.2





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 16.984 min Scan# 11

Delta R.T. -0.000 min

Lab File: BN037149.D

Acq: 03 Jun 2025 15:14

Instrument :

BNA\_N

ClientSampleId :

SSTDICC5.0

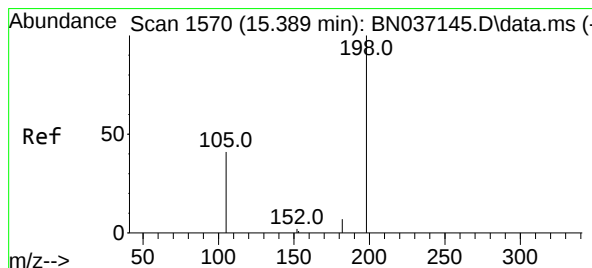
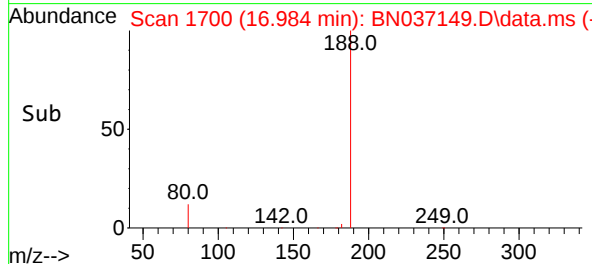
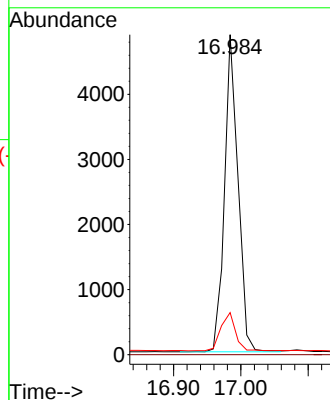
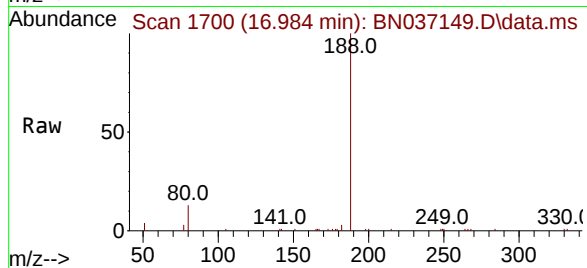
Tgt Ion:188 Resp: 6764

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 13.2 11.3 16.9



#20

4,6-Dinitro-2-methylphenol

Concen: 5.124 ng

RT: 15.378 min Scan# 1569

Delta R.T. -0.011 min

Lab File: BN037149.D

Acq: 03 Jun 2025 15:14

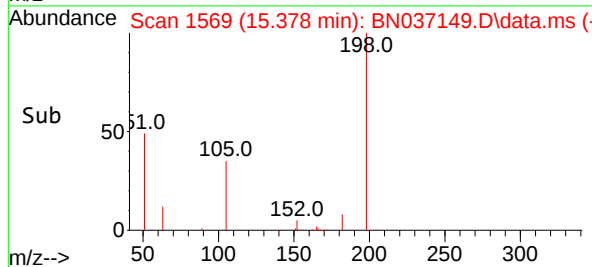
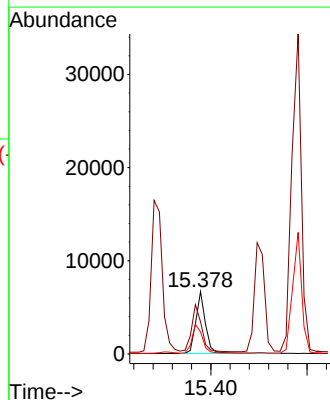
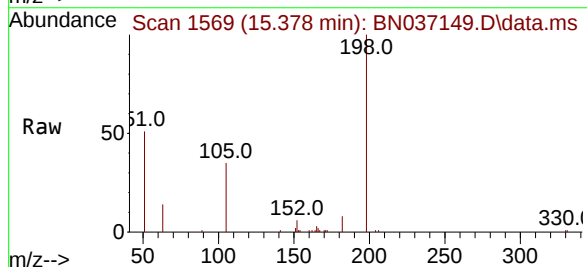
Tgt Ion:198 Resp: 9612

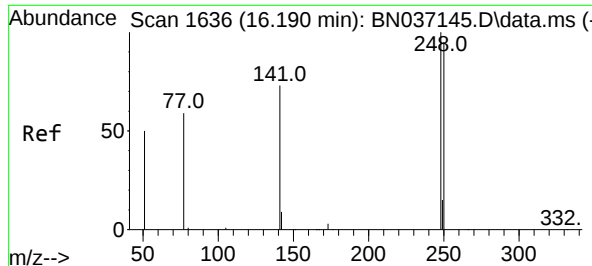
Ion Ratio Lower Upper

198 100

51 51.5 125.2 187.8#

105 35.5 57.1 85.7#





#21

4-Bromophenyl-phenylether

Concen: 5.173 ng

RT: 16.189 min Scan# 1636

Delta R.T. -0.000 min

Lab File: BN037149.D

Acq: 03 Jun 2025 15:14

Instrument :

BNA\_N

ClientSampleId :

SSTDICC5.0

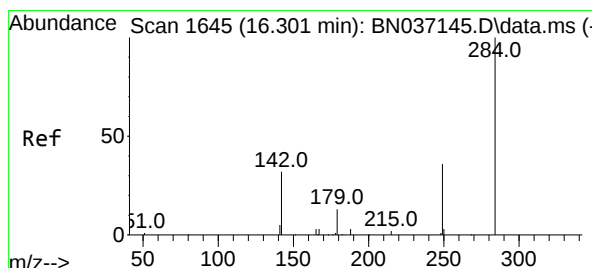
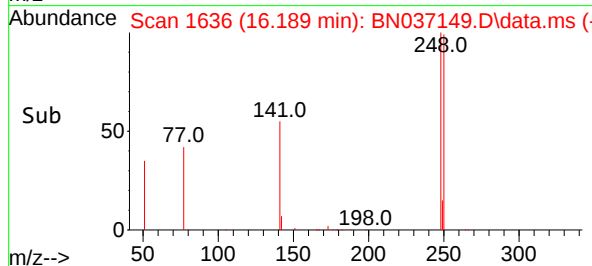
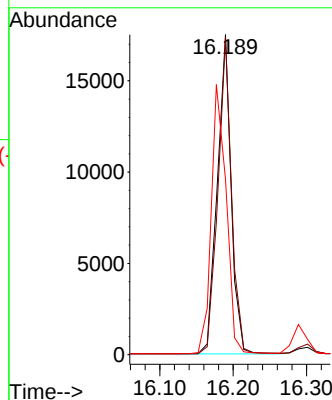
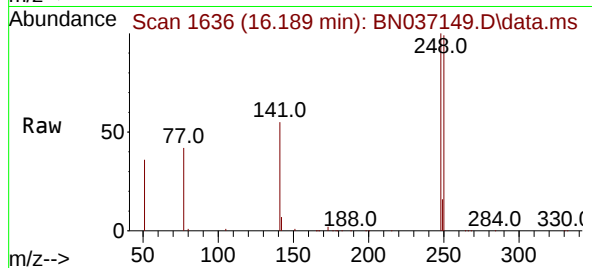
Tgt Ion:248 Resp: 22933

Ion Ratio Lower Upper

248 100

250 99.0 76.1 114.1

141 54.8 60.1 90.1#



#22

Hexachlorobenzene

Concen: 4.847 ng

RT: 16.301 min Scan# 1645

Delta R.T. -0.000 min

Lab File: BN037149.D

Acq: 03 Jun 2025 15:14

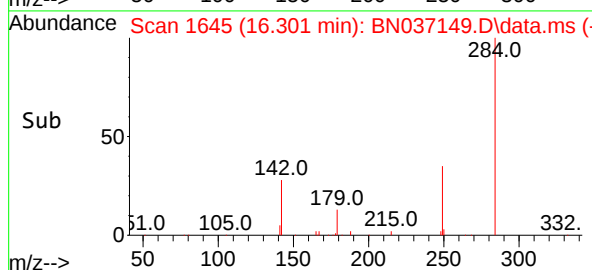
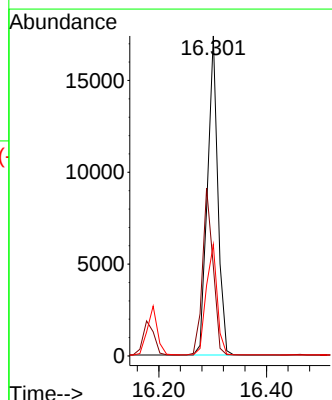
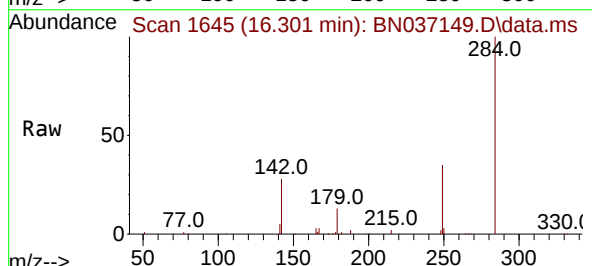
Tgt Ion:284 Resp: 23190

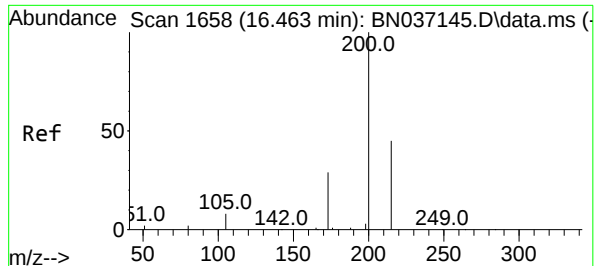
Ion Ratio Lower Upper

284 100

142 53.5 44.0 66.0

249 36.6 29.7 44.5





#23

Atrazine

Concen: 5.696 ng

RT: 16.463 min Scan# 1658

Delta R.T. -0.000 min

Lab File: BN037149.D

Acq: 03 Jun 2025 15:14

Instrument :

BNA\_N

ClientSampleId :

SSTDICC5.0

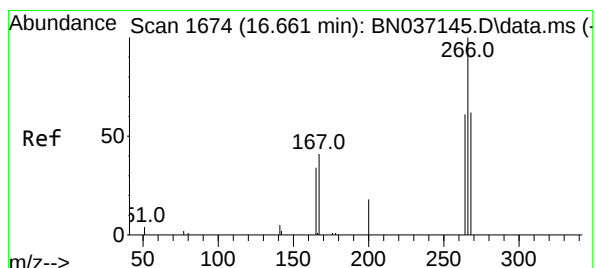
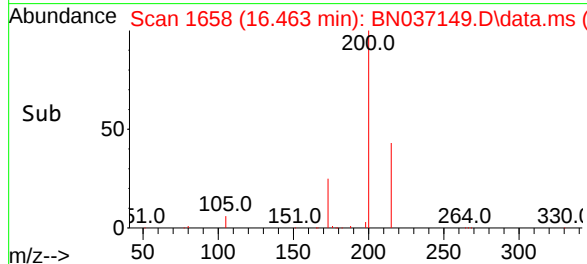
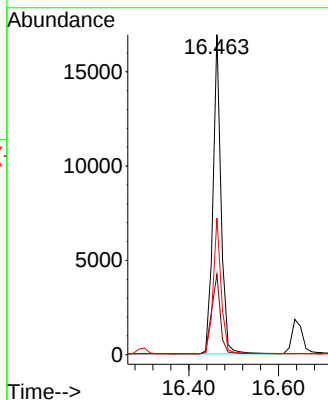
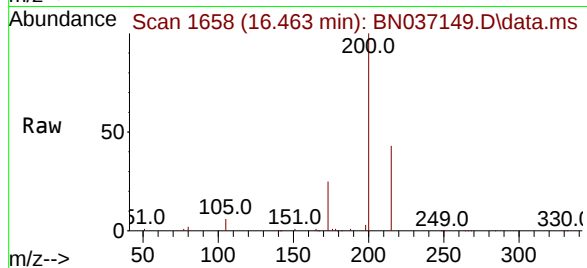
Tgt Ion:200 Resp: 20848

Ion Ratio Lower Upper

200 100

173 25.1 28.1 42.1#

215 42.7 39.3 58.9



#24

Pentachlorophenol

Concen: 5.085 ng

RT: 16.649 min Scan# 1673

Delta R.T. -0.012 min

Lab File: BN037149.D

Acq: 03 Jun 2025 15:14

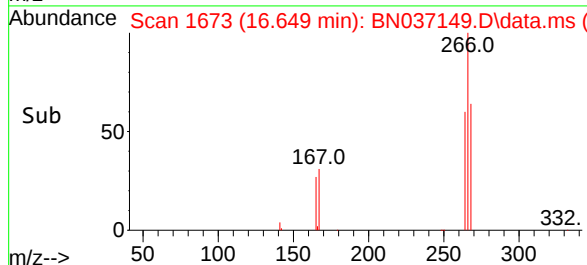
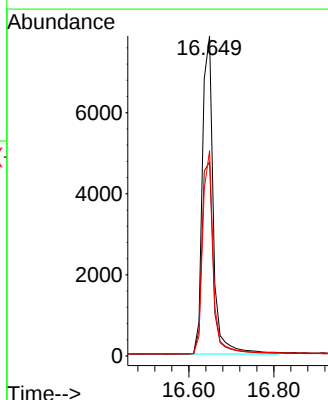
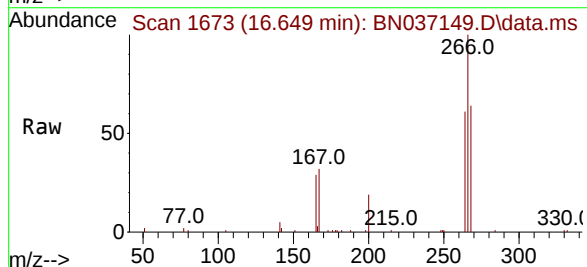
Tgt Ion:266 Resp: 13952

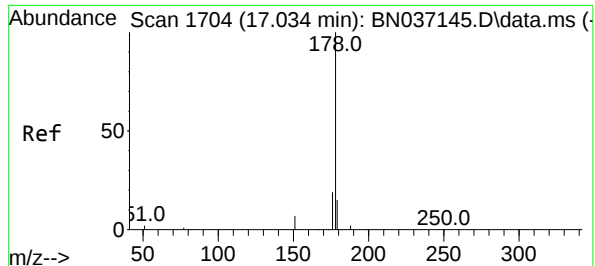
Ion Ratio Lower Upper

266 100

264 63.2 49.3 73.9

268 62.7 49.0 73.4





#25

Phenanthrene

Concen: 5.252 ng

RT: 17.021 min Scan# 1703

Delta R.T. -0.012 min

Lab File: BN037149.D

Acq: 03 Jun 2025 15:14

Instrument :

BNA\_N

ClientSampleId :

SSTDICC5.0

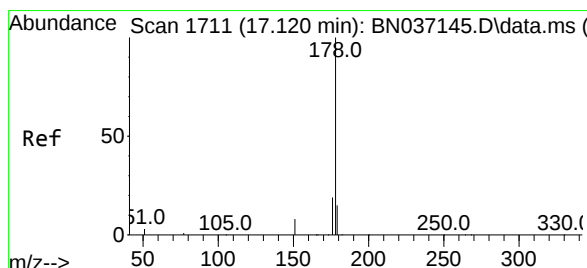
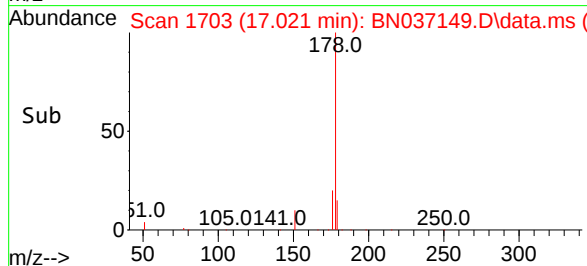
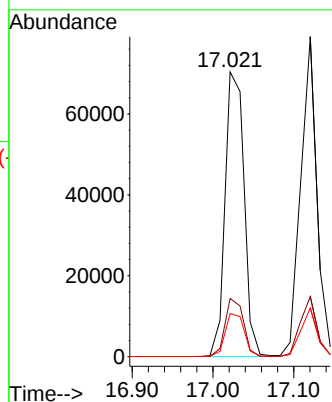
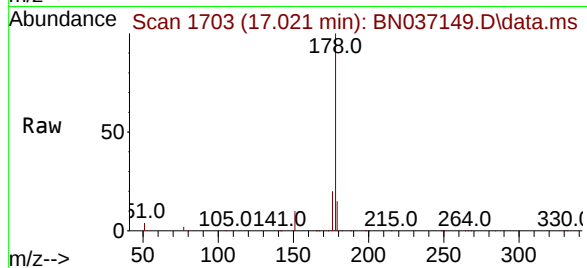
Tgt Ion:178 Resp: 115105

Ion Ratio Lower Upper

178 100

176 19.8 15.7 23.5

179 15.1 12.3 18.5



#26

Anthracene

Concen: 5.569 ng

RT: 17.120 min Scan# 1711

Delta R.T. -0.000 min

Lab File: BN037149.D

Acq: 03 Jun 2025 15:14

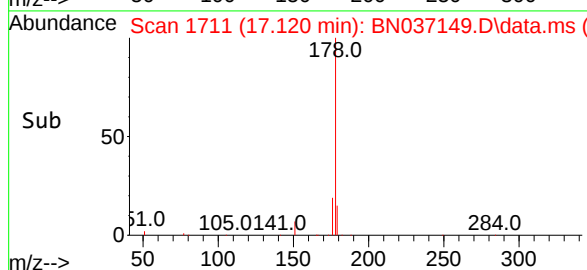
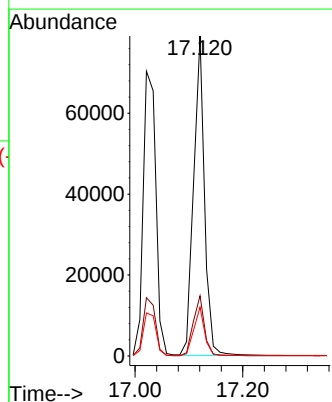
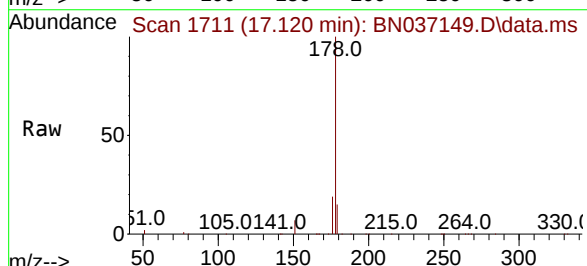
Tgt Ion:178 Resp: 111362

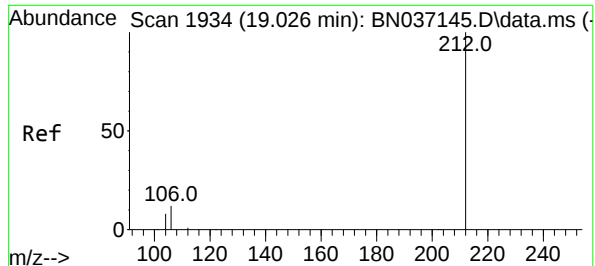
Ion Ratio Lower Upper

178 100

176 19.1 15.2 22.8

179 15.1 12.9 19.3





#27

Fluoranthene-d10

Concen: 5.482 ng

RT: 19.026 min Scan# 1934

Delta R.T. -0.000 min

Lab File: BN037149.D

Acq: 03 Jun 2025 15:14

Instrument :

BNA\_N

ClientSampleId :

SSTDICC5.0

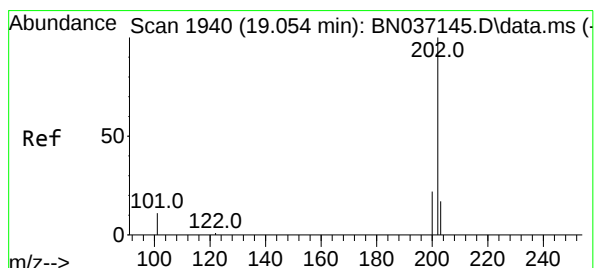
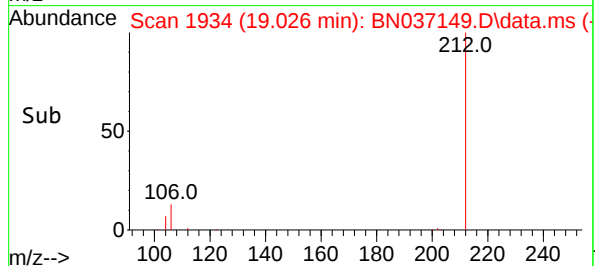
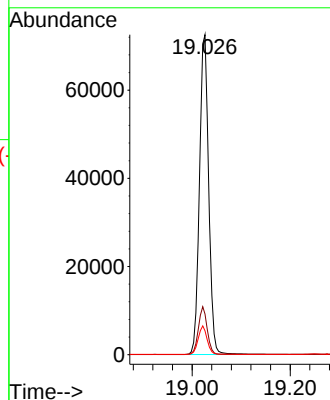
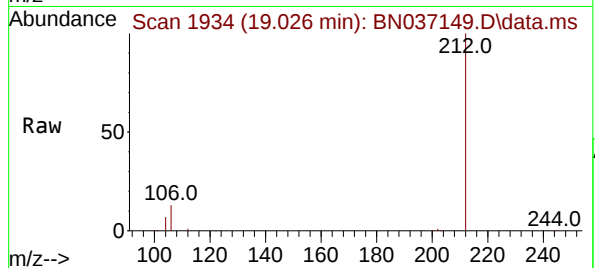
Tgt Ion:212 Resp: 94210

Ion Ratio Lower Upper

212 100

106 14.3 10.6 15.8

104 8.6 6.6 9.8



#28

Fluoranthene

Concen: 5.604 ng

RT: 19.054 min Scan# 1940

Delta R.T. -0.000 min

Lab File: BN037149.D

Acq: 03 Jun 2025 15:14

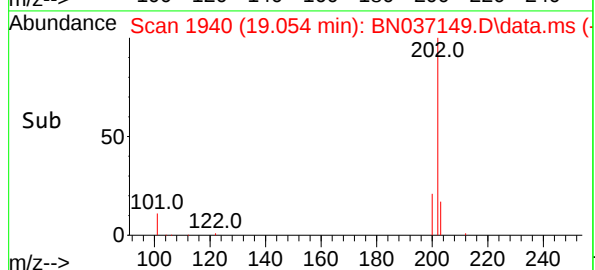
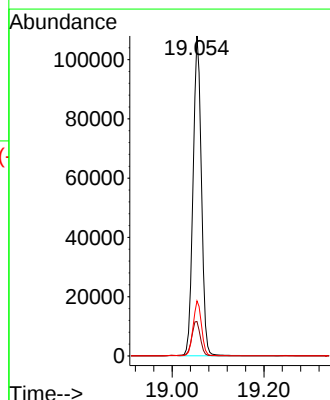
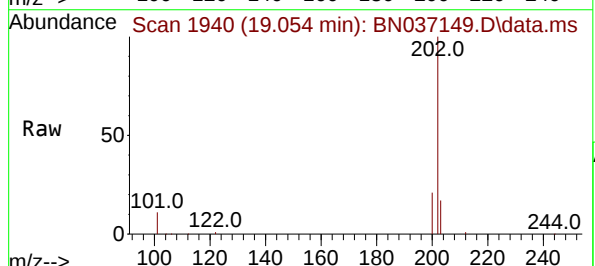
Tgt Ion:202 Resp: 135672

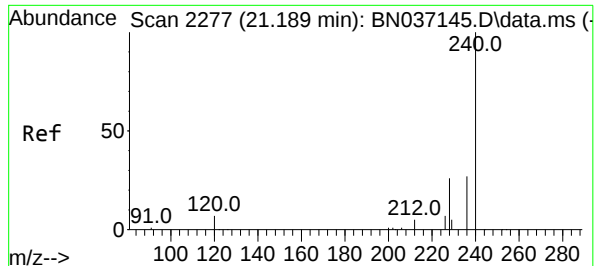
Ion Ratio Lower Upper

202 100

101 11.4 8.7 13.1

203 17.2 13.5 20.3





#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.180 min Scan# 21

Delta R.T. -0.009 min

Lab File: BN037149.D

Acq: 03 Jun 2025 15:14

Instrument :

BNA\_N

ClientSampleId :

SSTDICC5.0

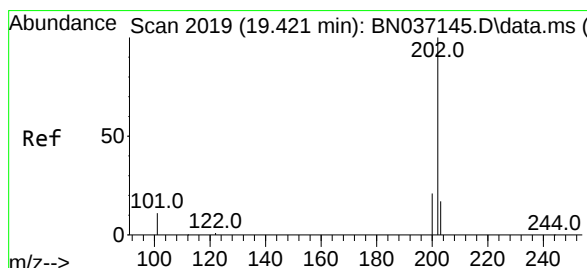
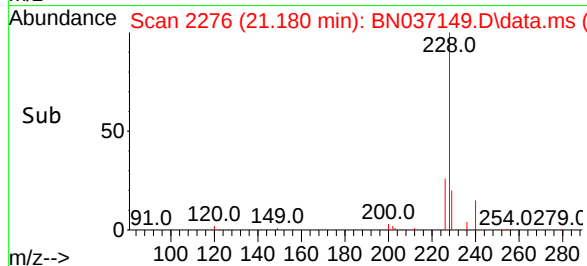
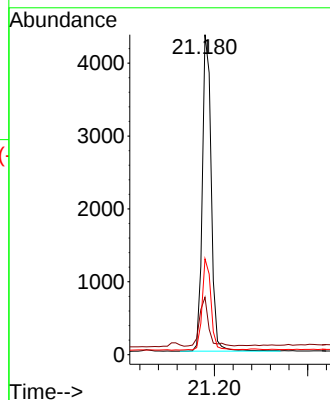
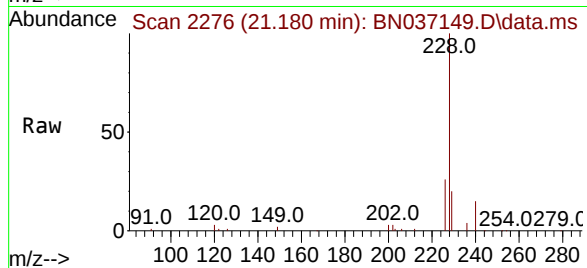
Tgt Ion:240 Resp: 5784

Ion Ratio Lower Upper

240 100

120 18.0 9.0 13.4#

236 30.0 23.0 34.4



#30

Pyrene

Concen: 4.827 ng

RT: 19.416 min Scan# 2018

Delta R.T. -0.005 min

Lab File: BN037149.D

Acq: 03 Jun 2025 15:14

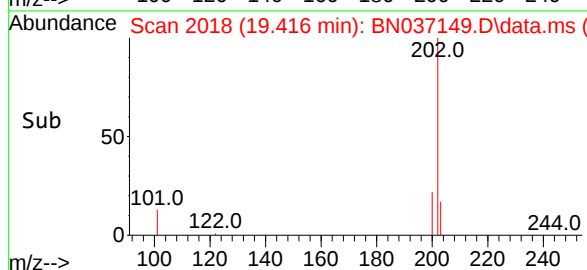
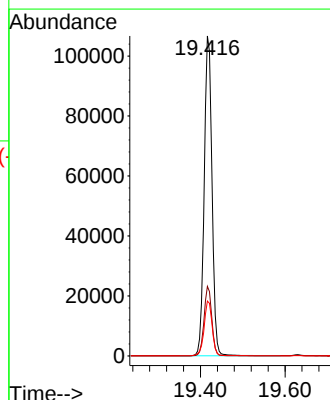
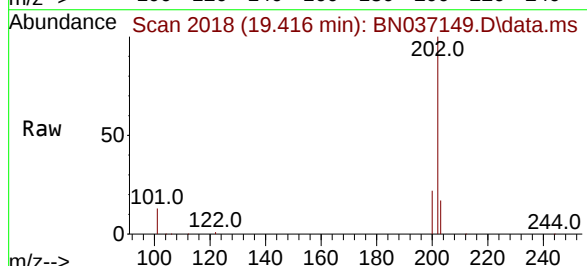
Tgt Ion:202 Resp: 136281

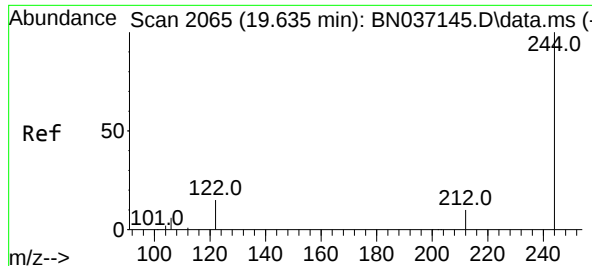
Ion Ratio Lower Upper

202 100

200 21.5 17.0 25.6

203 17.6 14.2 21.4

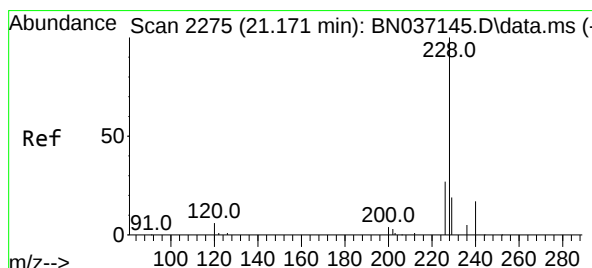
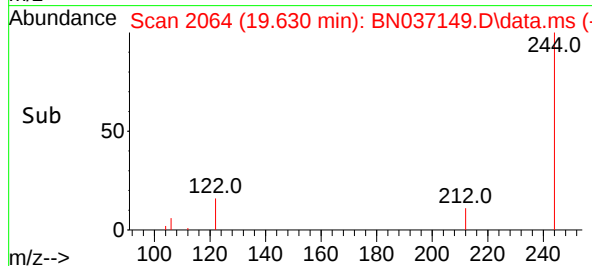
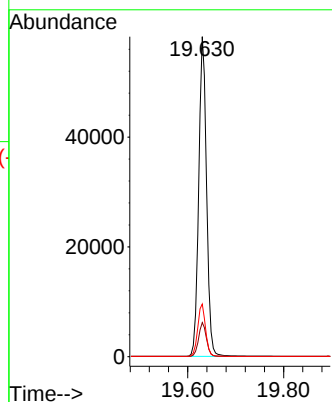
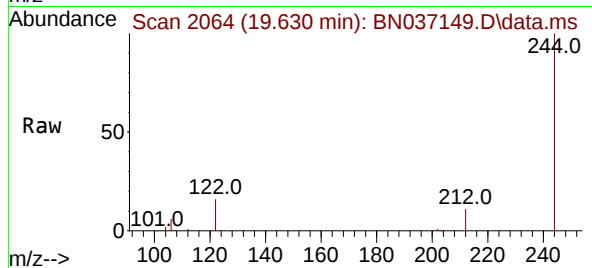




#31  
Terphenyl-d14  
Concen: 4.900 ng  
RT: 19.630 min Scan# 2064  
Delta R.T. -0.005 min  
Lab File: BN037149.D  
Acq: 03 Jun 2025 15:14

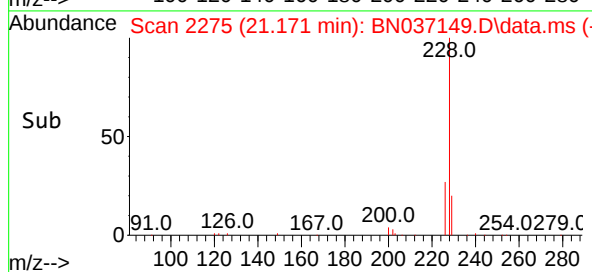
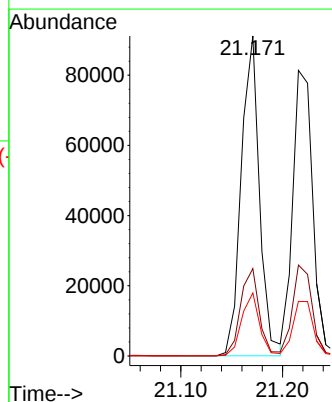
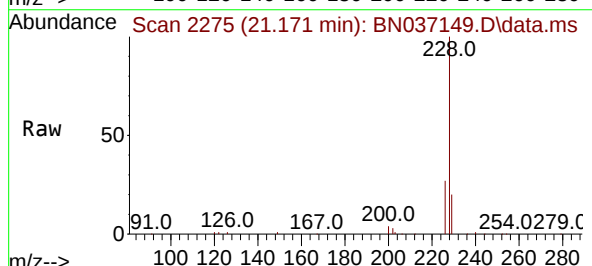
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC5.0

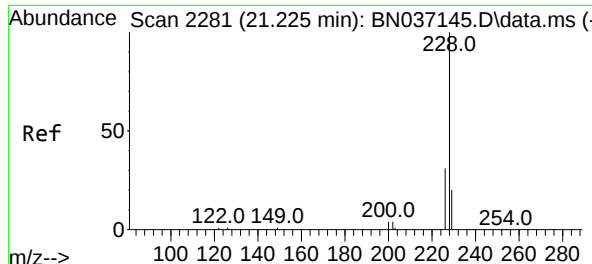
Tgt Ion:244 Resp: 66718  
Ion Ratio Lower Upper  
244 100  
212 10.7 10.0 15.0  
122 16.5 13.2 19.8



#32  
Benzo(a)anthracene  
Concen: 5.423 ng  
RT: 21.171 min Scan# 2275  
Delta R.T. -0.000 min  
Lab File: BN037149.D  
Acq: 03 Jun 2025 15:14

Tgt Ion:228 Resp: 113532  
Ion Ratio Lower Upper  
228 100  
226 27.3 22.6 33.8  
229 19.7 16.2 24.2

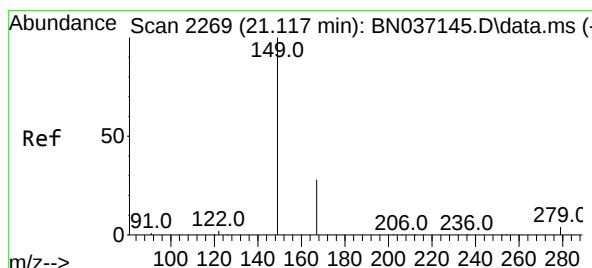
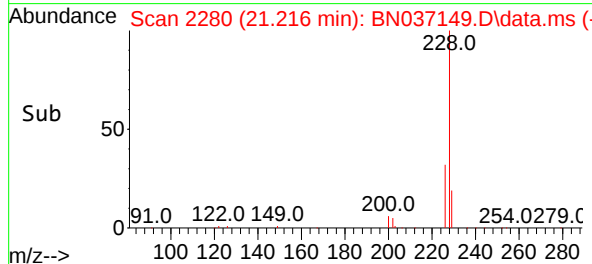
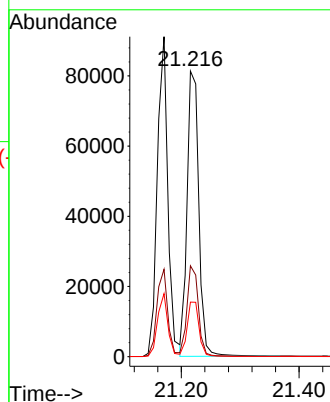
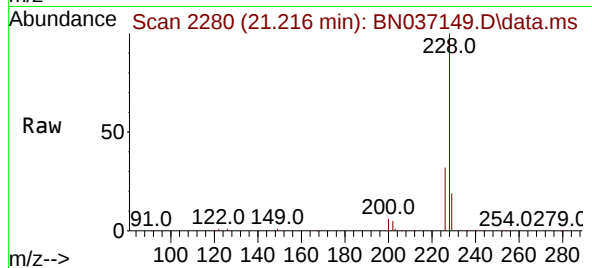




#33  
Chrysene  
Concen: 4.825 ng  
RT: 21.216 min Scan# 2112  
Delta R.T. -0.009 min  
Lab File: BN037149.D  
Acq: 03 Jun 2025 15:14

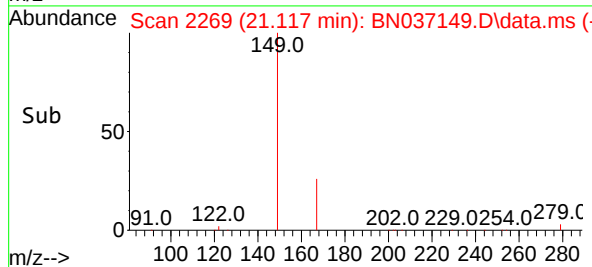
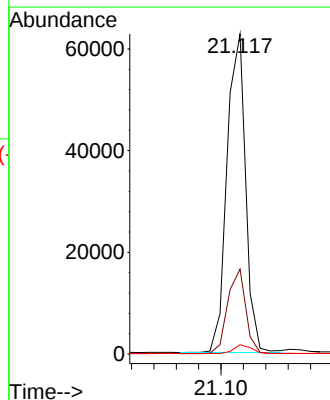
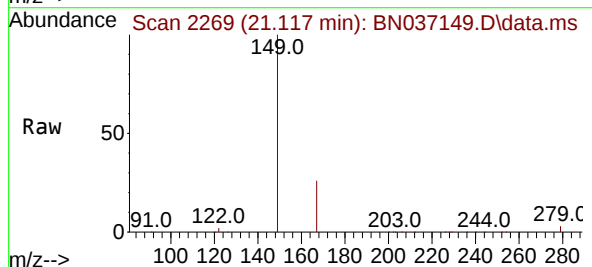
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC5.0

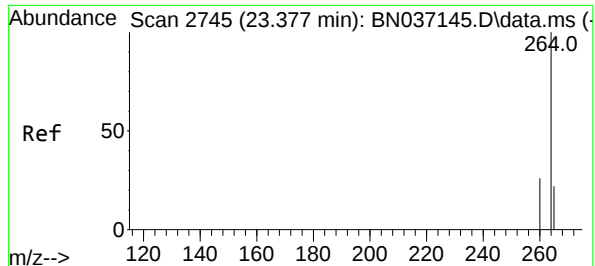
Tgt Ion:228 Resp: 112475  
Ion Ratio Lower Upper  
228 100  
226 31.8 25.2 37.8  
229 19.1 16.8 25.2



#34  
Bis(2-ethylhexyl)phthalate  
Concen: 5.486 ng  
RT: 21.117 min Scan# 2269  
Delta R.T. -0.000 min  
Lab File: BN037149.D  
Acq: 03 Jun 2025 15:14

Tgt Ion:149 Resp: 72476  
Ion Ratio Lower Upper  
149 100  
167 25.8 21.0 31.4  
279 2.6 2.9 4.3#





#35

Perylene-d12

Concen: 0.400 ng

RT: 23.374 min Scan# 21

Delta R.T. -0.003 min

Lab File: BN037149.D

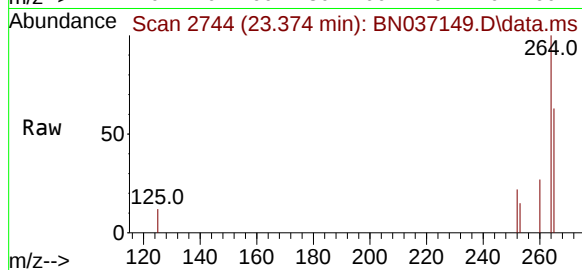
Acq: 03 Jun 2025 15:14

Instrument :

BNA\_N

ClientSampleId :

SSTDICC5.0



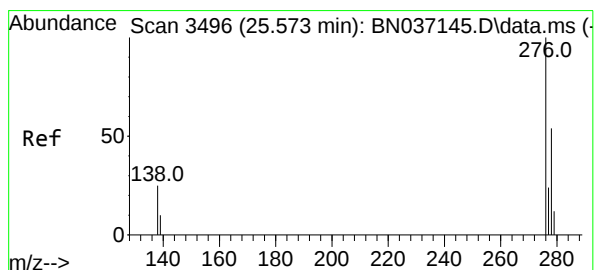
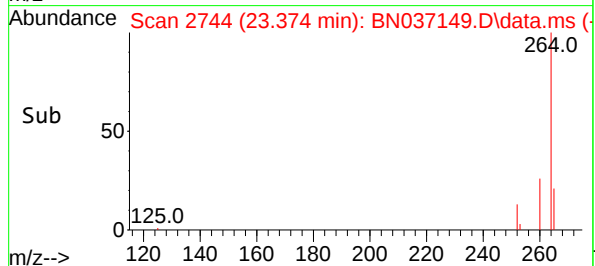
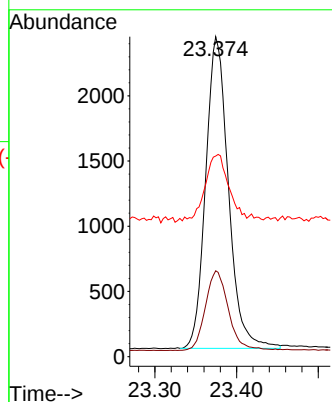
Tgt Ion:264 Resp: 4620

Ion Ratio Lower Upper

264 100

260 26.9 22.1 33.1

265 62.7 55.8 83.8



#36

Indeno(1,2,3-cd)pyrene

Concen: 5.331 ng

RT: 25.573 min Scan# 3496

Delta R.T. -0.000 min

Lab File: BN037149.D

Acq: 03 Jun 2025 15:14

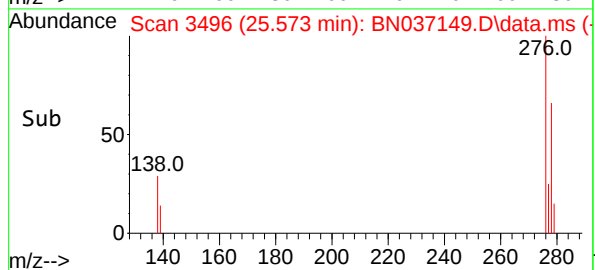
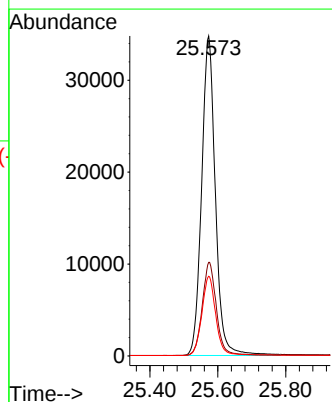
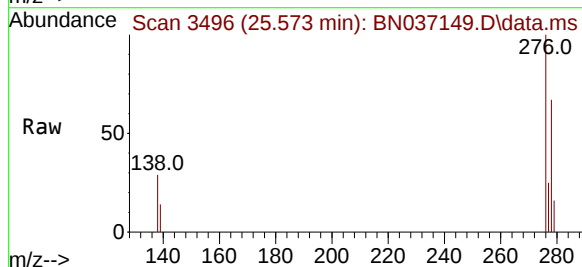
Tgt Ion:276 Resp: 97988

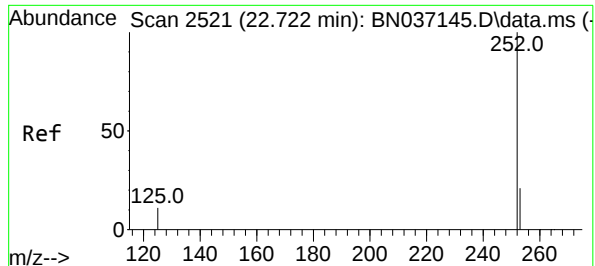
Ion Ratio Lower Upper

276 100

138 29.9 21.0 31.6

277 25.0 19.4 29.2





#37

Benzo(b)fluoranthene

Concen: 5.516 ng

RT: 22.720 min Scan# 2520

Delta R.T. -0.003 min

Lab File: BN037149.D

Acq: 03 Jun 2025 15:14

Instrument :

BNA\_N

ClientSampleId :

SSTDICC5.0

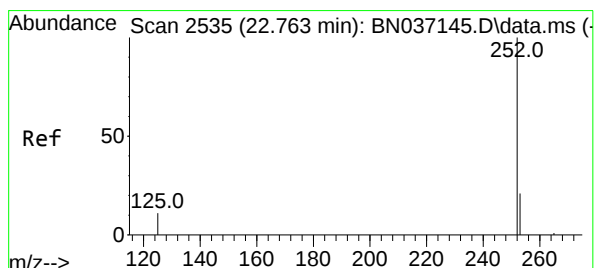
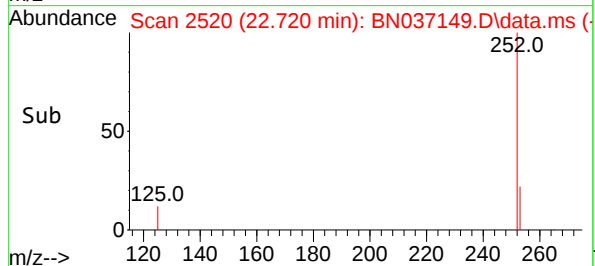
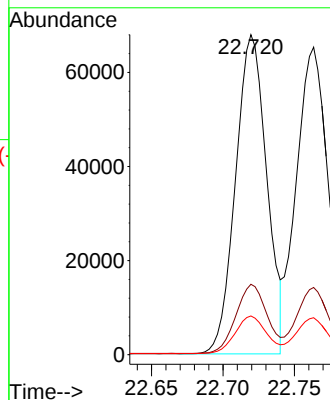
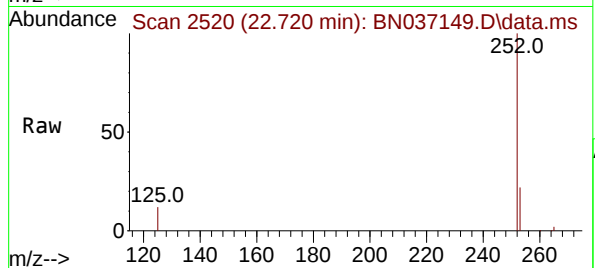
Tgt Ion:252 Resp: 102873

Ion Ratio Lower Upper

252 100

253 22.0 22.3 33.5#

125 12.1 13.2 19.8#



#38

Benzo(k)fluoranthene

Concen: 5.475 ng

RT: 22.763 min Scan# 2535

Delta R.T. -0.000 min

Lab File: BN037149.D

Acq: 03 Jun 2025 15:14

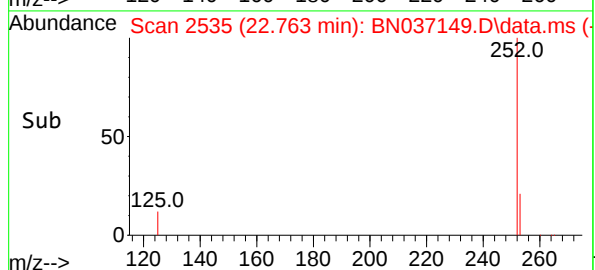
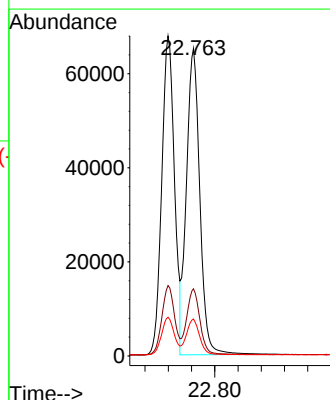
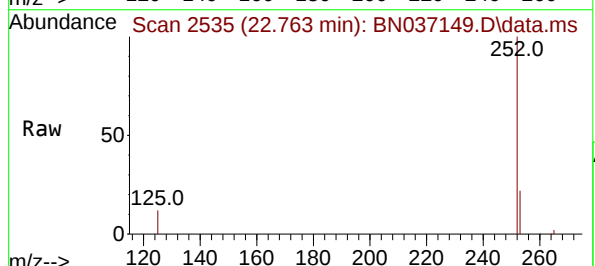
Tgt Ion:252 Resp: 104252

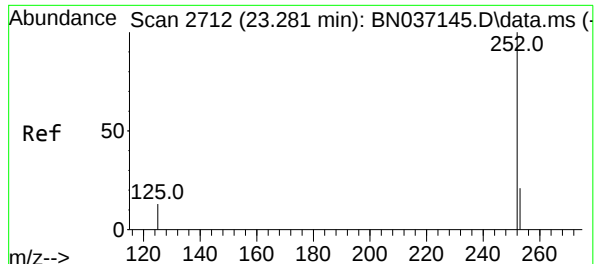
Ion Ratio Lower Upper

252 100

253 21.8 22.2 33.4#

125 12.0 13.2 19.8#





#39

Benzo(a)pyrene

Concen: 5.474 ng

RT: 23.278 min Scan# 21

Delta R.T. -0.003 min

Lab File: BN037149.D

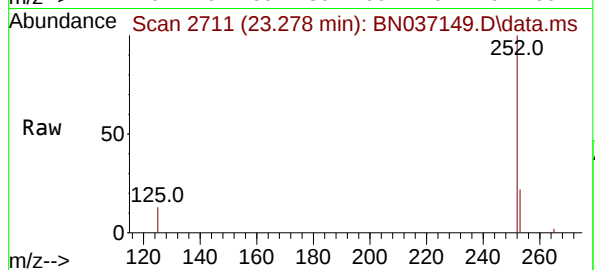
Acq: 03 Jun 2025 15:14

Instrument :

BNA\_N

ClientSampleId :

SSTDICC5.0



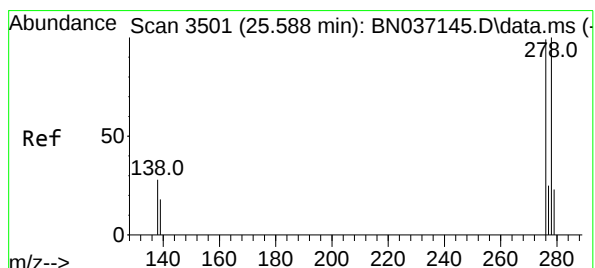
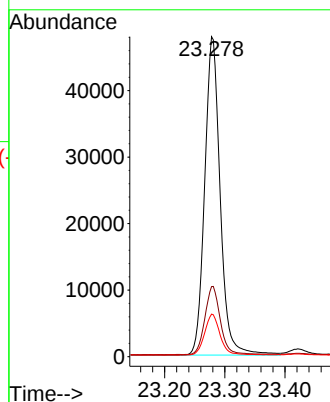
Tgt Ion:252 Resp: 85510

Ion Ratio Lower Upper

252 100

253 21.9 25.0 37.4#

125 13.3 17.0 25.6#



#40

Dibenzo(a,h)anthracene

Concen: 5.411 ng

RT: 25.585 min Scan# 3500

Delta R.T. -0.003 min

Lab File: BN037149.D

Acq: 03 Jun 2025 15:14

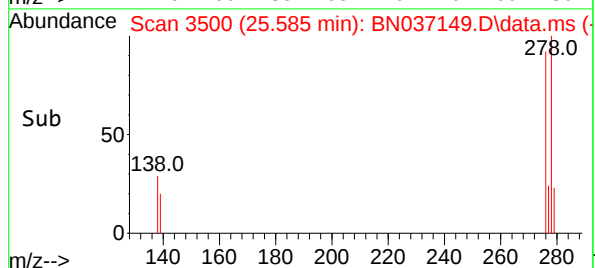
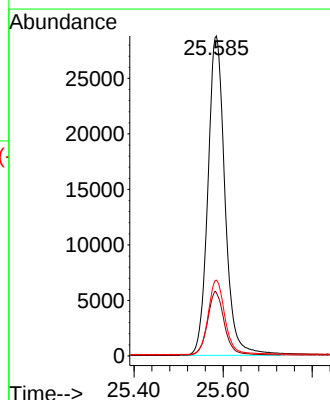
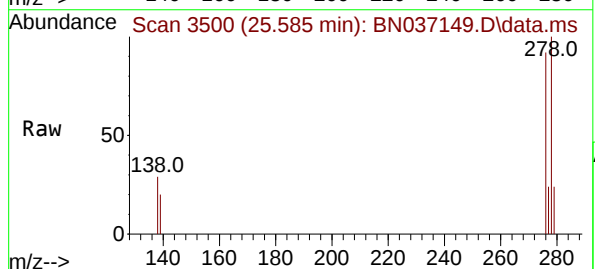
Tgt Ion:278 Resp: 76694

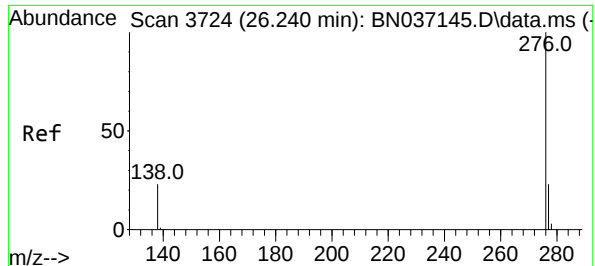
Ion Ratio Lower Upper

278 100

139 19.8 17.6 26.4

279 23.7 26.0 39.0#





#41

Benzo(g,h,i)perylene

Concen: 5.054 ng

RT: 26.243 min Scan# 31

Delta R.T. 0.003 min

Lab File: BN037149.D

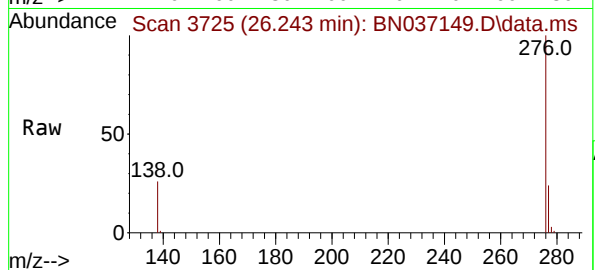
Acq: 03 Jun 2025 15:14

Instrument :

BNA\_N

ClientSampleId :

SSTDICC5.0



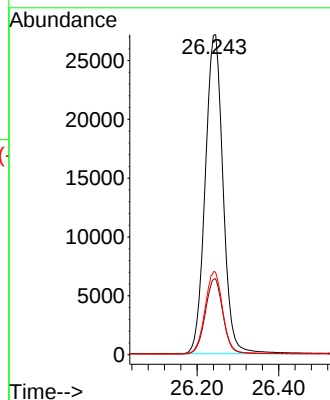
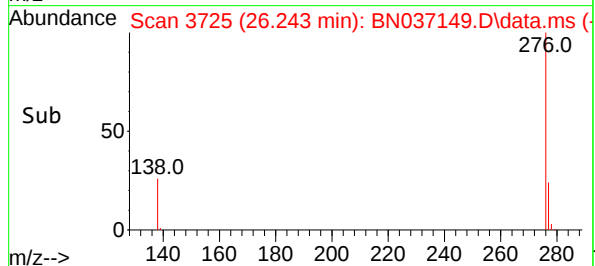
Tgt Ion:276 Resp: 82277

Ion Ratio Lower Upper

276 100

277 23.7 20.9 31.3

138 26.0 20.8 31.2



Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN060325\  
 Data File : BN037150.D  
 Acq On : 03 Jun 2025 15:53  
 Operator : RC/JU  
 Sample : SSTDICV0.4  
 Misc :  
 ALS Vial : 9 Sample Multiplier: 1

Instrument :  
 BNA\_N  
 ClientSampleId :  
 ICVBN060325

Quant Time: Jun 04 01:54:08 2025  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\8270-SIM-BN060325.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Wed Jun 04 01:52:03 2025  
 Response via : Initial Calibration

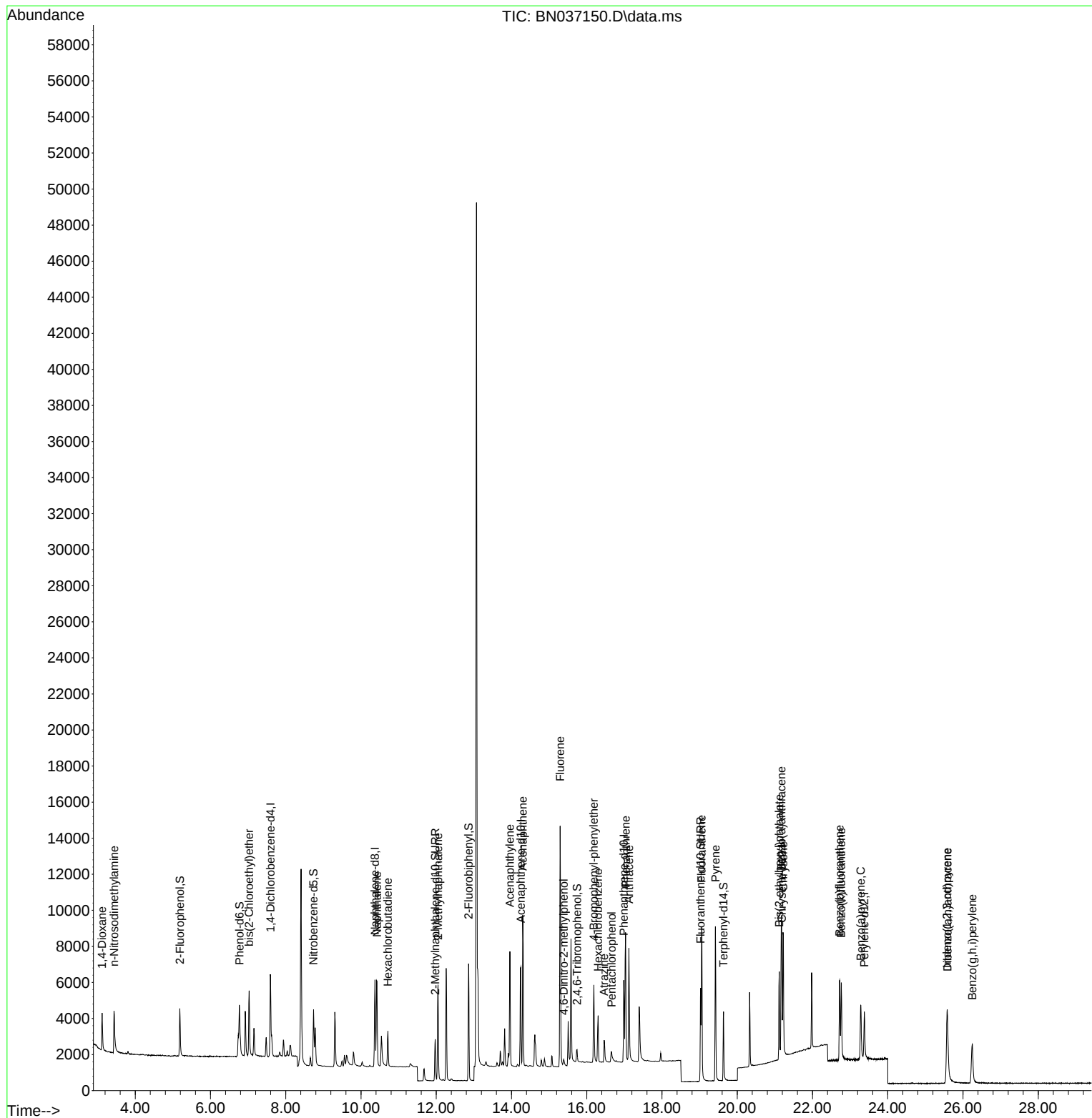
| Compound                      | R.T.   | QIon | Response | Conc  | Units | Dev(Min) |
|-------------------------------|--------|------|----------|-------|-------|----------|
| Internal Standards            |        |      |          |       |       |          |
| 1) 1,4-Dichlorobenzene-d4     | 7.597  | 152  | 2254     | 0.400 | ng    | 0.00     |
| 7) Naphthalene-d8             | 10.372 | 136  | 5892     | 0.400 | ng    | 0.00     |
| 13) Acenaphthene-d10          | 14.245 | 164  | 3320     | 0.400 | ng    | 0.01     |
| 19) Phenanthrene-d10          | 16.984 | 188  | 6332     | 0.400 | ng    | 0.00     |
| 29) Chrysene-d12              | 21.189 | 240  | 4292     | 0.400 | ng    | 0.00     |
| 35) Perylene-d12              | 23.377 | 264  | 3564     | 0.400 | ng    | 0.00     |
| System Monitoring Compounds   |        |      |          |       |       |          |
| 4) 2-Fluorophenol             | 5.184  | 112  | 2014     | 0.361 | ng    | 0.00     |
| 5) Phenol-d6                  | 6.773  | 99   | 2419     | 0.358 | ng    | 0.00     |
| 8) Nitrobenzene-d5            | 8.739  | 82   | 2473     | 0.398 | ng    | 0.00     |
| 11) 2-Methylnaphthalene-d10   | 11.971 | 152  | 3266     | 0.398 | ng    | 0.00     |
| 14) 2,4,6-Tribromophenol      | 15.743 | 330  | 440      | 0.329 | ng    | 0.00     |
| 15) 2-Fluorobiphenyl          | 12.858 | 172  | 5696     | 0.402 | ng    | 0.00     |
| 27) Fluoranthene-d10          | 19.026 | 212  | 6037     | 0.375 | ng    | 0.00     |
| 31) Terphenyl-d14             | 19.635 | 244  | 4196     | 0.415 | ng    | 0.00     |
| Target Compounds              |        |      |          |       |       |          |
| 2) 1,4-Dioxane                | 3.119  | 88   | 1242     | 0.413 | ng    | 98       |
| 3) n-Nitrosodimethylamine     | 3.437  | 42   | 2355     | 0.390 | ng    | 100      |
| 6) bis(2-Chloroethyl)ether    | 7.026  | 93   | 2715     | 0.421 | ng    | 100      |
| 9) Naphthalene                | 10.426 | 128  | 6699     | 0.394 | ng    | 98       |
| 10) Hexachlorobutadiene       | 10.714 | 225  | 1489     | 0.402 | ng    | # 99     |
| 12) 2-Methylnaphthalene       | 12.047 | 142  | 3839     | 0.352 | ng    | 96       |
| 16) Acenaphthylene            | 13.957 | 152  | 6575     | 0.404 | ng    | 100      |
| 17) Acenaphthene              | 14.299 | 154  | 3940     | 0.373 | ng    | 100      |
| 18) Fluorene                  | 15.293 | 166  | 5182     | 0.373 | ng    | 99       |
| 20) 4,6-Dinitro-2-methylph... | 15.389 | 198  | 348      | 0.462 | ng    | 84       |
| 21) 4-Bromophenyl-phenylether | 16.189 | 248  | 1544     | 0.372 | ng    | 98       |
| 22) Hexachlorobenzene         | 16.301 | 284  | 1743     | 0.389 | ng    | 99       |
| 23) Atrazine                  | 16.463 | 200  | 1282     | 0.374 | ng    | 97       |
| 24) Pentachlorophenol         | 16.661 | 266  | 591      | 0.436 | ng    | 97       |
| 25) Phenanthrene              | 17.033 | 178  | 7869     | 0.384 | ng    | 100      |
| 26) Anthracene                | 17.120 | 178  | 7105     | 0.380 | ng    | 99       |
| 28) Fluoranthene              | 19.054 | 202  | 8186     | 0.361 | ng    | 99       |
| 30) Pyrene                    | 19.421 | 202  | 8148     | 0.389 | ng    | 99       |
| 32) Benzo(a)anthracene        | 21.171 | 228  | 5949     | 0.383 | ng    | 99       |
| 33) Chrysene                  | 21.224 | 228  | 6661     | 0.385 | ng    | 99       |
| 34) Bis(2-ethylhexyl)phtha... | 21.117 | 149  | 3635     | 0.371 | ng    | 99       |
| 36) Indeno(1,2,3-cd)pyrene    | 25.573 | 276  | 5461     | 0.385 | ng    | 100      |
| 37) Benzo(b)fluoranthene      | 22.720 | 252  | 5432     | 0.378 | ng    | 100      |
| 38) Benzo(k)fluoranthene      | 22.763 | 252  | 5859     | 0.399 | ng    | 100      |
| 39) Benzo(a)pyrene            | 23.281 | 252  | 4925     | 0.409 | ng    | 99       |
| 40) Dibenzo(a,h)anthracene    | 25.588 | 278  | 4227     | 0.387 | ng    | 100      |
| 41) Benzo(g,h,i)perylene      | 26.248 | 276  | 4620     | 0.368 | ng    | 98       |

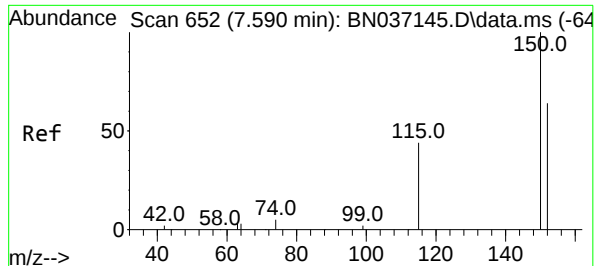
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN060325\  
Data File : BN037150.D  
Acq On : 03 Jun 2025 15:53  
Operator : RC/JU  
Sample : SSTDICV0.4  
Misc :  
ALS Vial : 9 Sample Multiplier: 1

Instrument :  
BNA\_N  
ClientSampleId :  
ICVBN060325

Quant Time: Jun 04 01:54:08 2025  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\8270-SIM-BN060325.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Wed Jun 04 01:52:03 2025  
Response via : Initial Calibration

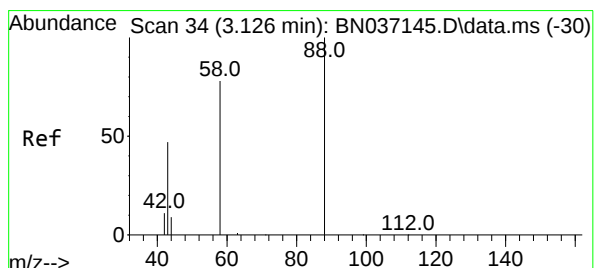
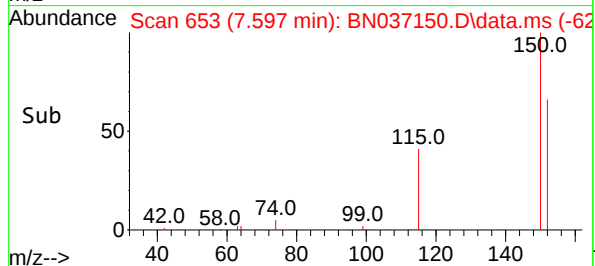
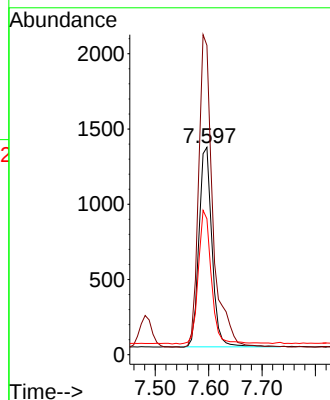
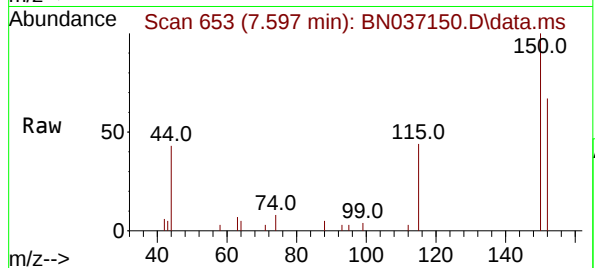




#1  
1,4-Dichlorobenzene-d4  
Concen: 0.400 ng  
RT: 7.597 min Scan# 61  
Delta R.T. 0.007 min  
Lab File: BN037150.D  
Acq: 03 Jun 2025 15:53

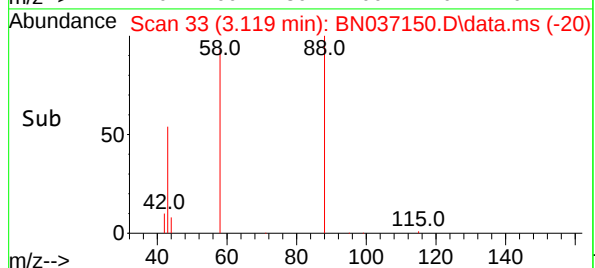
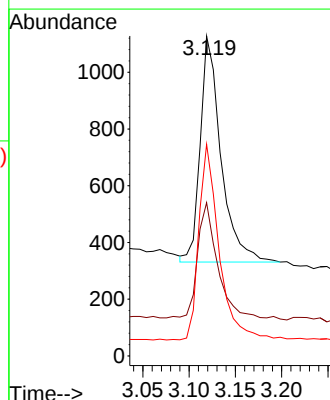
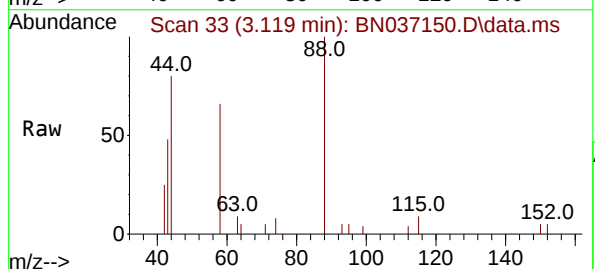
Instrument :  
BNA\_N  
ClientSampleId :  
ICVBN060325

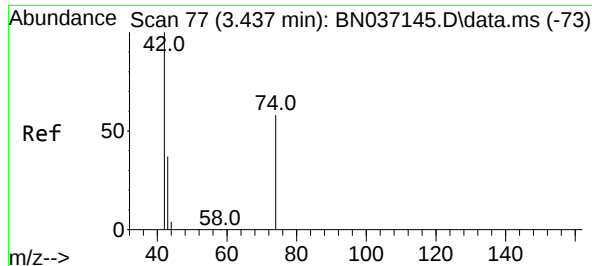
Tgt Ion:152 Resp: 2254  
Ion Ratio Lower Upper  
152 100  
150 149.2 123.2 184.8  
115 65.5 56.6 85.0



#2  
1,4-Dioxane  
Concen: 0.413 ng  
RT: 3.119 min Scan# 33  
Delta R.T. -0.007 min  
Lab File: BN037150.D  
Acq: 03 Jun 2025 15:53

Tgt Ion: 88 Resp: 1242  
Ion Ratio Lower Upper  
88 100  
43 50.8 43.5 65.3  
58 84.5 67.7 101.5

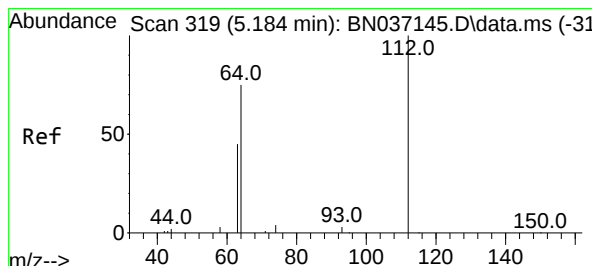
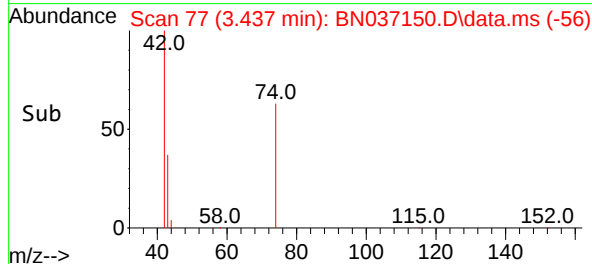
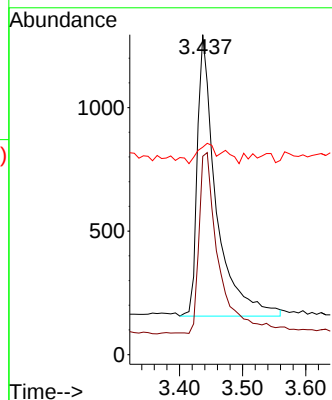
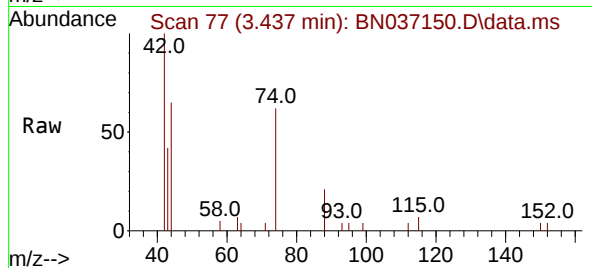




#3  
n-Nitrosodimethylamine  
Concen: 0.390 ng  
RT: 3.437 min Scan# 77  
Delta R.T. -0.000 min  
Lab File: BN037150.D  
Acq: 03 Jun 2025 15:53

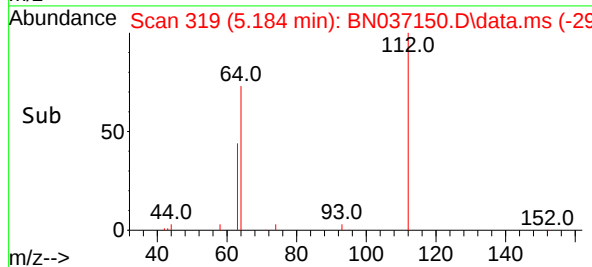
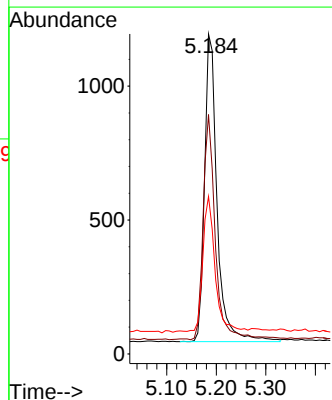
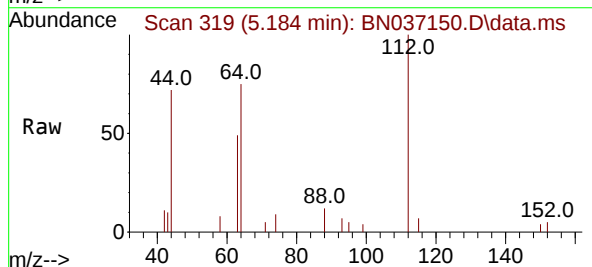
Instrument :  
BNA\_N  
ClientSampleId :  
ICVBN060325

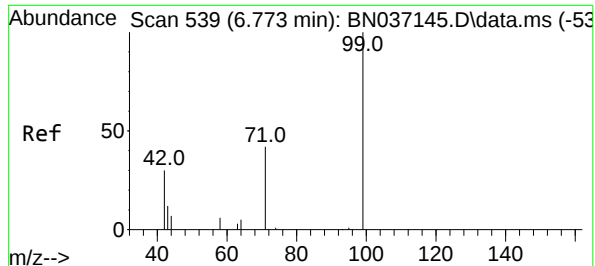
Tgt Ion: 42 Resp: 2355  
Ion Ratio Lower Upper  
42 100  
74 66.5 53.0 79.4  
44 6.9 5.9 8.9



#4  
2-Fluorophenol  
Concen: 0.361 ng  
RT: 5.184 min Scan# 319  
Delta R.T. -0.000 min  
Lab File: BN037150.D  
Acq: 03 Jun 2025 15:53

Tgt Ion: 112 Resp: 2014  
Ion Ratio Lower Upper  
112 100  
64 72.0 56.3 84.5  
63 42.3 36.2 54.4

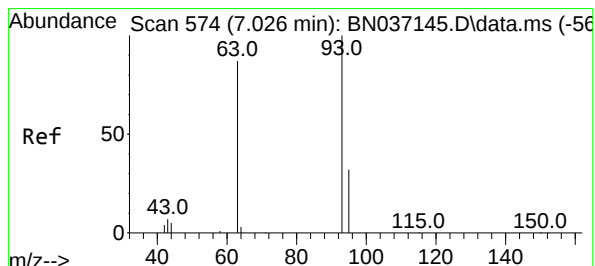
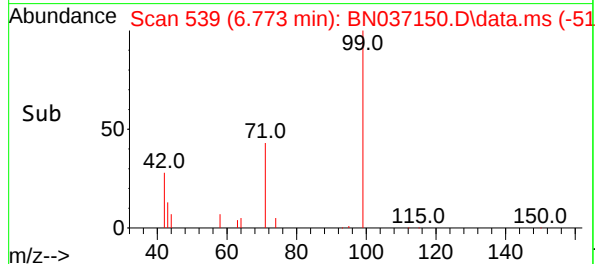
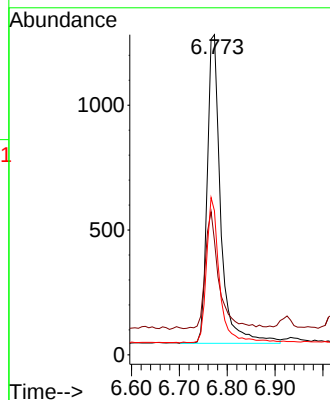
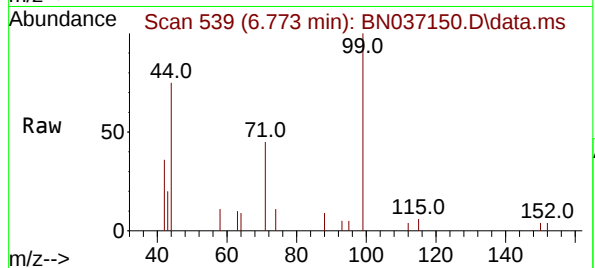




#5  
Phenol-d6  
Concen: 0.358 ng  
RT: 6.773 min Scan# 51  
Delta R.T. -0.000 min  
Lab File: BN037150.D  
Acq: 03 Jun 2025 15:53

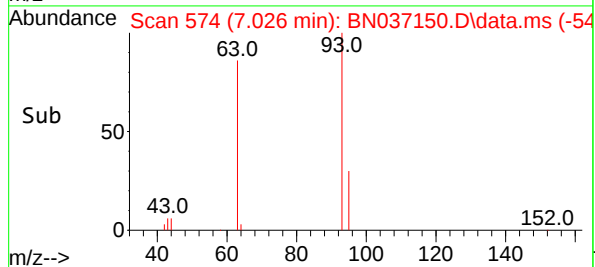
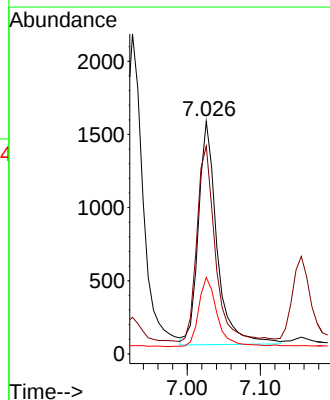
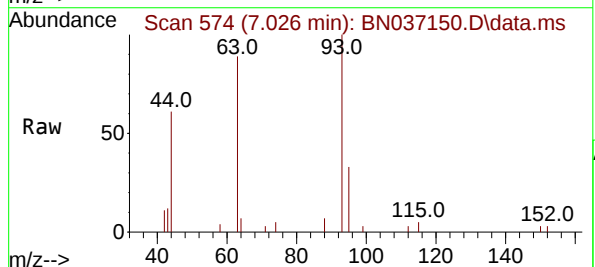
Instrument :  
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ClientSampleId :  
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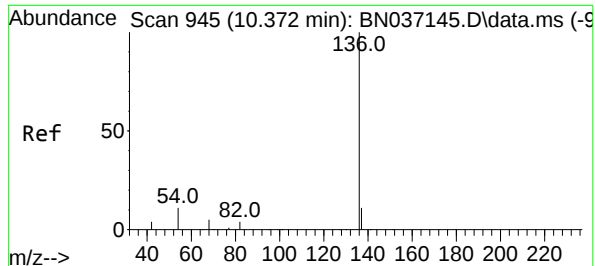
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 99    | Resp: | 2419  |
| Ion      | Ratio | Lower | Upper |
| 99       | 100   |       |       |
| 42       | 38.5  | 31.3  | 46.9  |
| 71       | 45.7  | 38.2  | 57.2  |



#6  
bis(2-Chloroethyl)ether  
Concen: 0.421 ng  
RT: 7.026 min Scan# 574  
Delta R.T. -0.000 min  
Lab File: BN037150.D  
Acq: 03 Jun 2025 15:53

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 93    | Resp: | 2715  |
| Ion      | Ratio | Lower | Upper |
| 93       | 100   |       |       |
| 63       | 85.3  | 68.6  | 103.0 |
| 95       | 30.5  | 24.3  | 36.5  |

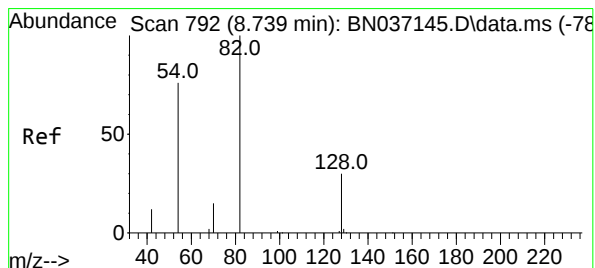
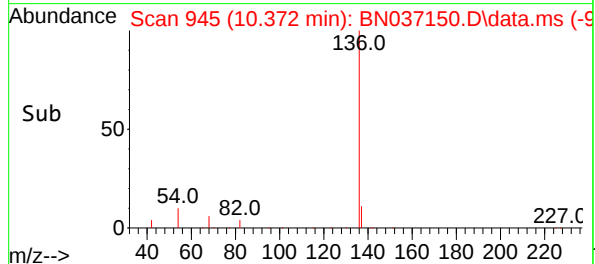
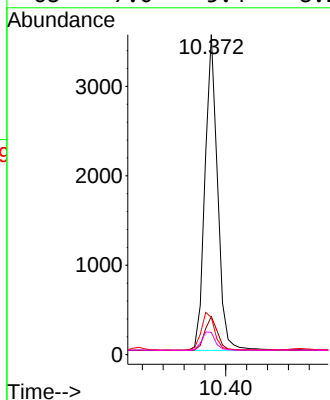
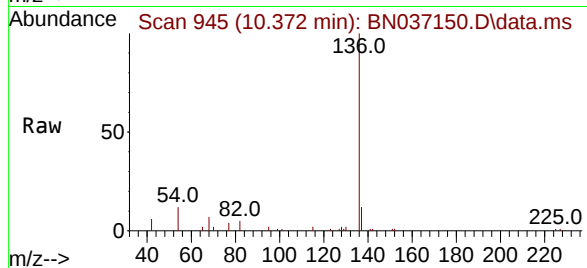




#7  
Naphthalene-d8  
Concen: 0.400 ng  
RT: 10.372 min Scan# 945  
Delta R.T. -0.000 min  
Lab File: BN037150.D  
Acq: 03 Jun 2025 15:53

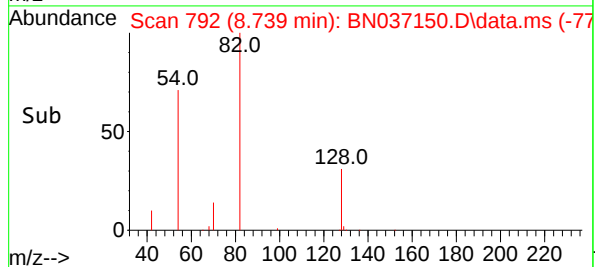
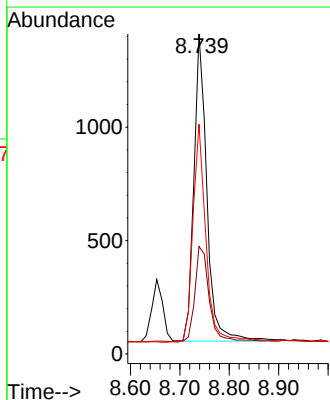
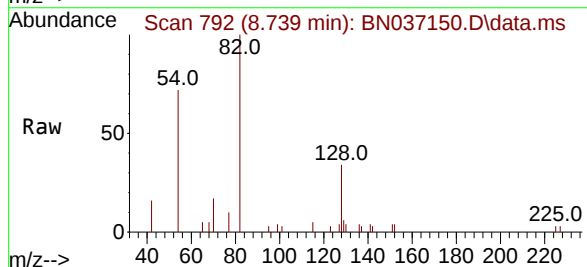
Instrument :  
BNA\_N  
ClientSampleId :  
ICVBN060325

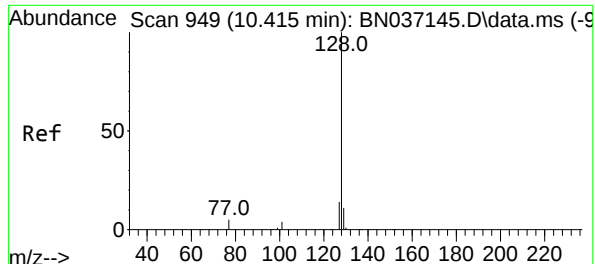
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 136   | Resp: | 5892  |
| Ion      | Ratio | Lower | Upper |
| 136      | 100   |       |       |
| 137      | 11.9  | 9.7   | 14.5  |
| 54       | 11.7  | 9.7   | 14.5  |
| 68       | 7.0   | 5.4   | 8.2   |



#8  
Nitrobenzene-d5  
Concen: 0.398 ng  
RT: 8.739 min Scan# 792  
Delta R.T. -0.000 min  
Lab File: BN037150.D  
Acq: 03 Jun 2025 15:53

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 82    | Resp: | 2473  |
| Ion      | Ratio | Lower | Upper |
| 82       | 100   |       |       |
| 128      | 33.6  | 26.9  | 40.3  |
| 54       | 71.8  | 61.4  | 92.2  |

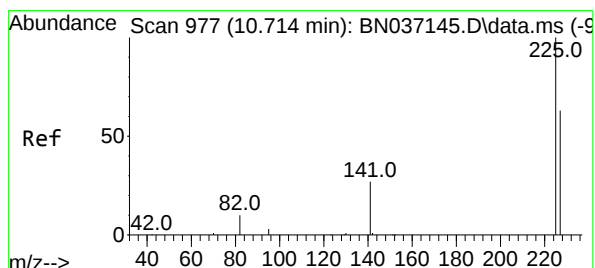
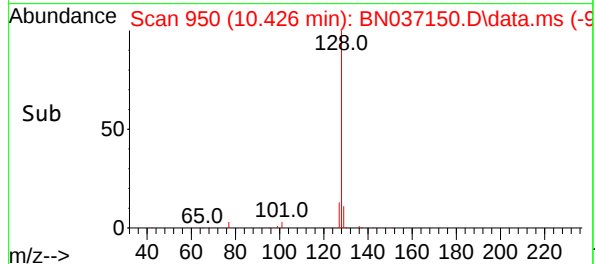
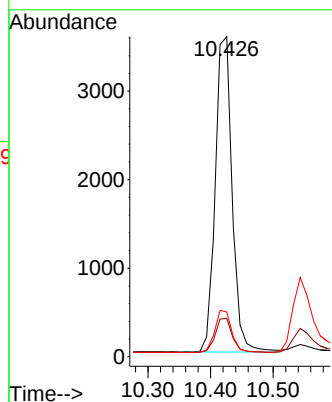
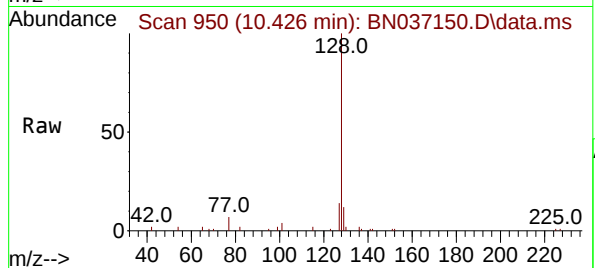




#9  
Naphthalene  
Concen: 0.394 ng  
RT: 10.426 min Scan# 949  
Delta R.T. 0.011 min  
Lab File: BN037150.D  
Acq: 03 Jun 2025 15:53

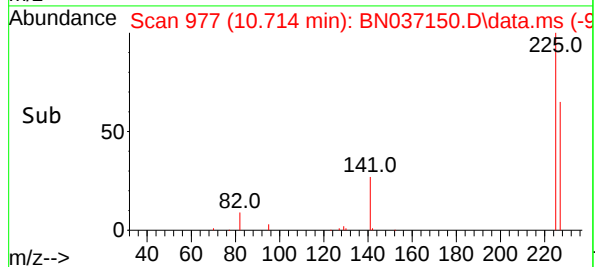
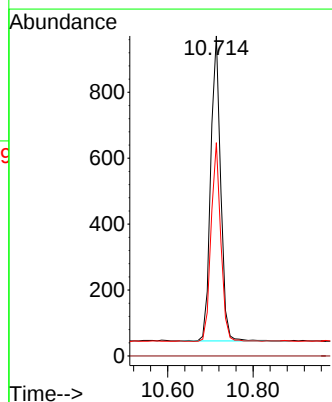
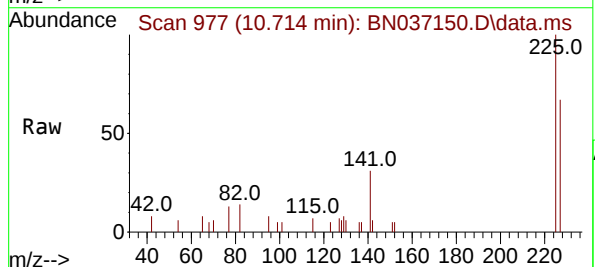
Instrument :  
BNA\_N  
ClientSampleId :  
ICVBN060325

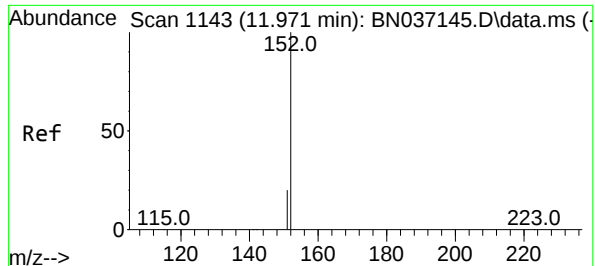
Tgt Ion:128 Resp: 6699  
Ion Ratio Lower Upper  
128 100  
129 12.0 9.8 14.8  
127 14.0 12.3 18.5



#10  
Hexachlorobutadiene  
Concen: 0.402 ng  
RT: 10.714 min Scan# 977  
Delta R.T. -0.000 min  
Lab File: BN037150.D  
Acq: 03 Jun 2025 15:53

Tgt Ion:225 Resp: 1489  
Ion Ratio Lower Upper  
225 100  
223 0.0 0.0 0.0  
227 63.7 50.3 75.5

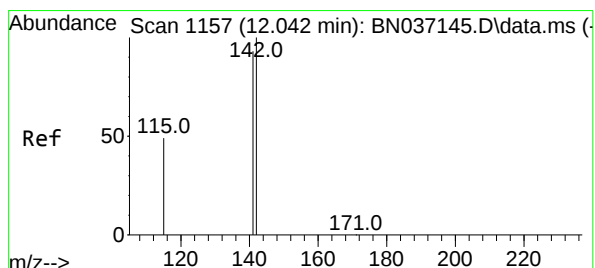
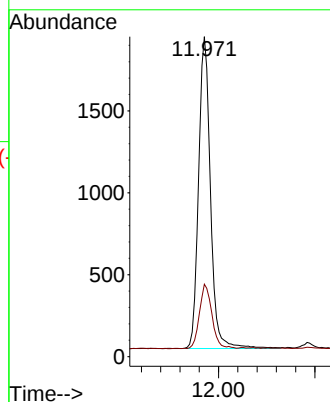
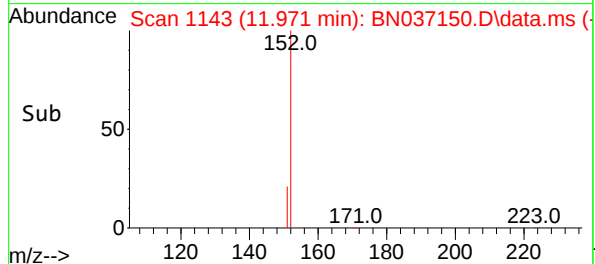
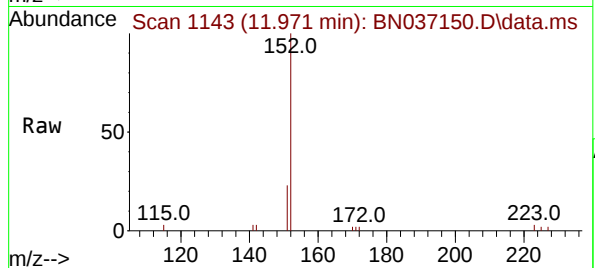




#11  
2-Methylnaphthalene-d10  
Concen: 0.398 ng  
RT: 11.971 min Scan# 1143  
Delta R.T. -0.000 min  
Lab File: BN037150.D  
Acq: 03 Jun 2025 15:53

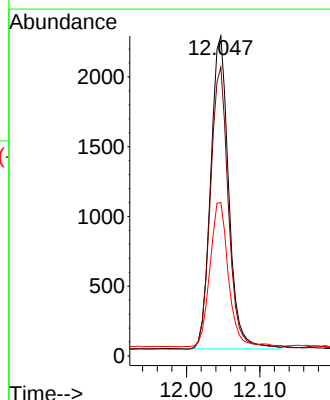
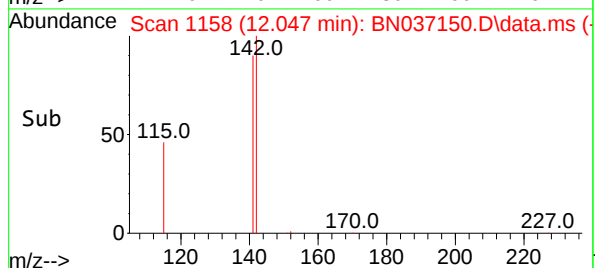
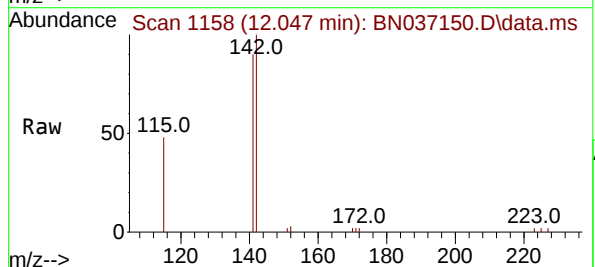
Instrument :  
BNA\_N  
ClientSampleId :  
ICVBN060325

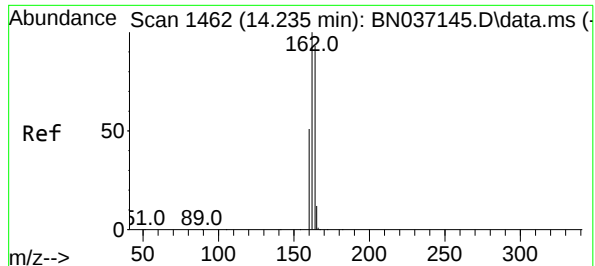
Tgt Ion:152 Resp: 3266  
Ion Ratio Lower Upper  
152 100  
151 21.7 17.1 25.7



#12  
2-Methylnaphthalene  
Concen: 0.352 ng  
RT: 12.047 min Scan# 1158  
Delta R.T. 0.005 min  
Lab File: BN037150.D  
Acq: 03 Jun 2025 15:53

Tgt Ion:142 Resp: 3839  
Ion Ratio Lower Upper  
142 100  
141 90.3 74.6 111.8  
115 48.0 41.0 61.4

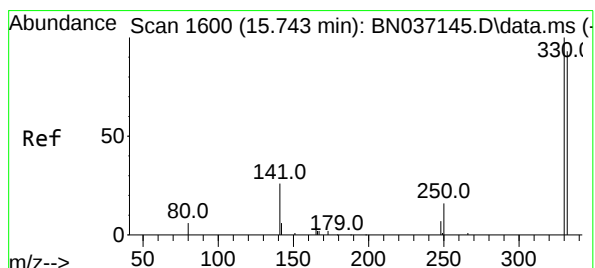
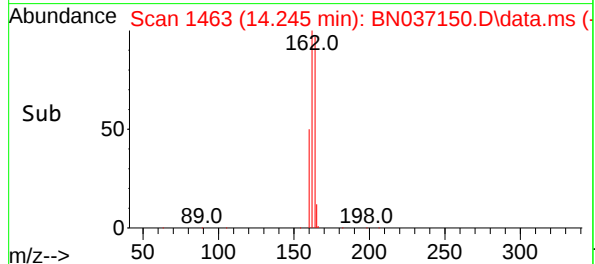
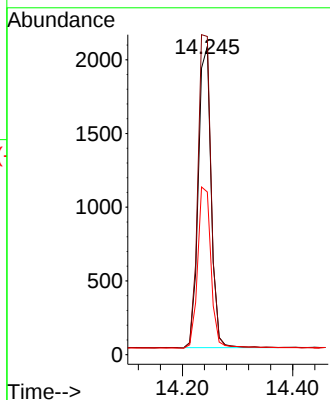
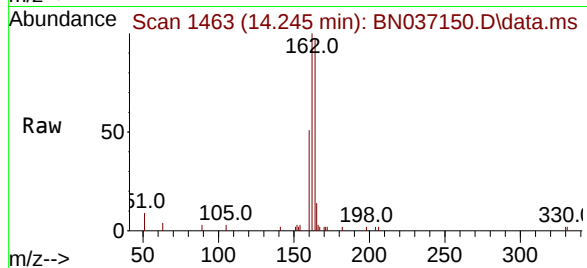




#13  
Acenaphthene-d10  
Concen: 0.400 ng  
RT: 14.245 min Scan# 1463  
Delta R.T. 0.011 min  
Lab File: BN037150.D  
Acq: 03 Jun 2025 15:53

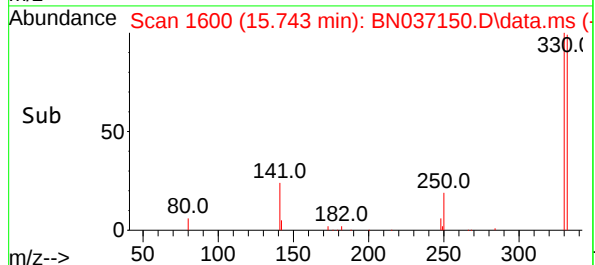
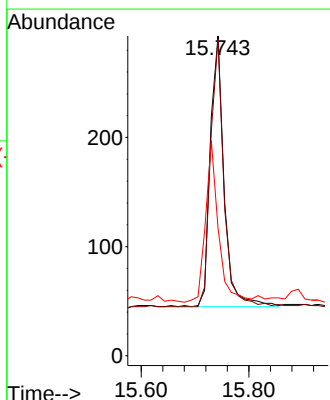
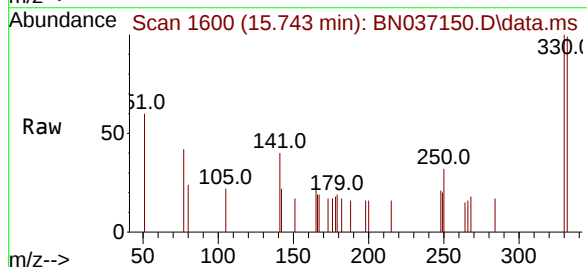
Instrument :  
BNA\_N  
ClientSampleId :  
ICVBN060325

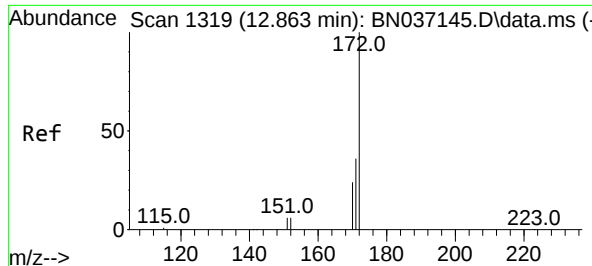
Tgt Ion:164 Resp: 3320  
Ion Ratio Lower Upper  
164 100  
162 103.3 85.5 128.3  
160 52.8 44.6 67.0



#14  
2,4,6-Tribromophenol  
Concen: 0.329 ng  
RT: 15.743 min Scan# 1600  
Delta R.T. -0.000 min  
Lab File: BN037150.D  
Acq: 03 Jun 2025 15:53

Tgt Ion:330 Resp: 440  
Ion Ratio Lower Upper  
330 100  
332 96.1 77.1 115.7  
141 55.9 46.4 69.6





#15

2-Fluorobiphenyl

Concen: 0.402 ng

RT: 12.858 min Scan# 1318

Delta R.T. -0.005 min

Lab File: BN037150.D

Acq: 03 Jun 2025 15:53

Instrument :

BNA\_N

ClientSampleId :

ICVBN060325

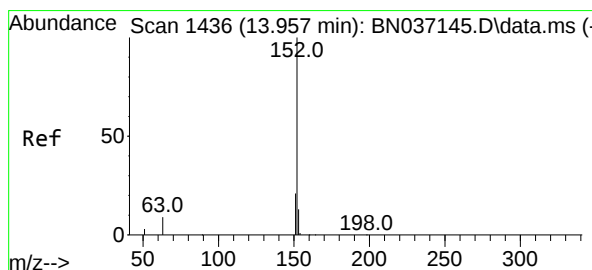
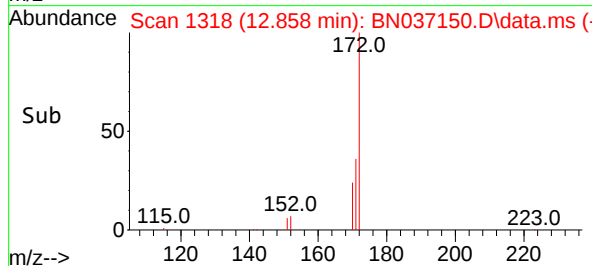
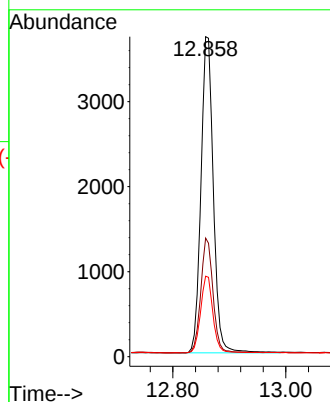
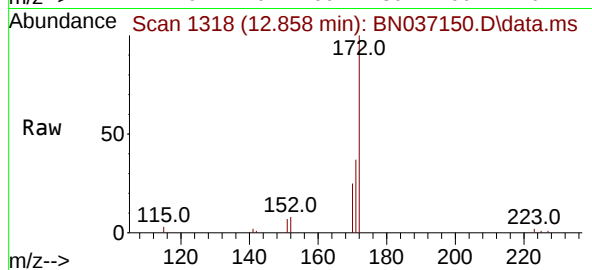
Tgt Ion:172 Resp: 5696

Ion Ratio Lower Upper

172 100

171 37.1 29.6 44.4

170 25.1 20.3 30.5



#16

Acenaphthylene

Concen: 0.404 ng

RT: 13.957 min Scan# 1436

Delta R.T. -0.000 min

Lab File: BN037150.D

Acq: 03 Jun 2025 15:53

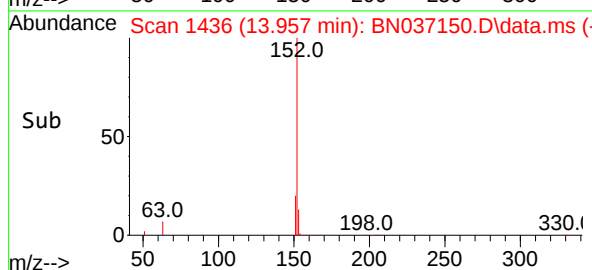
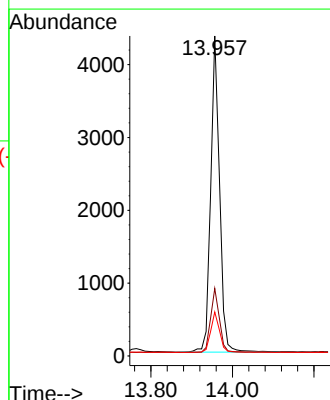
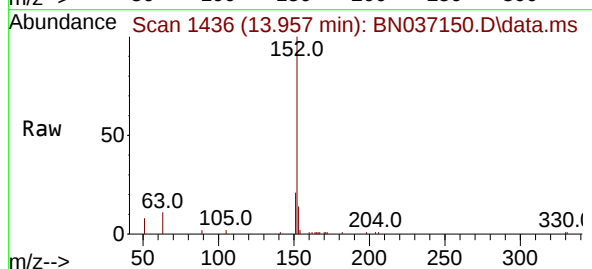
Tgt Ion:152 Resp: 6575

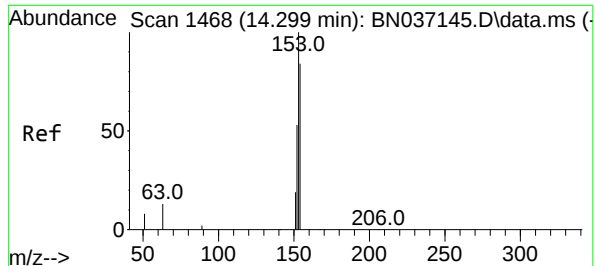
Ion Ratio Lower Upper

152 100

151 20.3 16.3 24.5

153 13.1 10.6 15.8





#17

Acenaphthene

Concen: 0.373 ng

RT: 14.299 min Scan# 1468

Delta R.T. -0.000 min

Lab File: BN037150.D

Acq: 03 Jun 2025 15:53

Instrument :

BNA\_N

ClientSampleId :

ICVBN060325

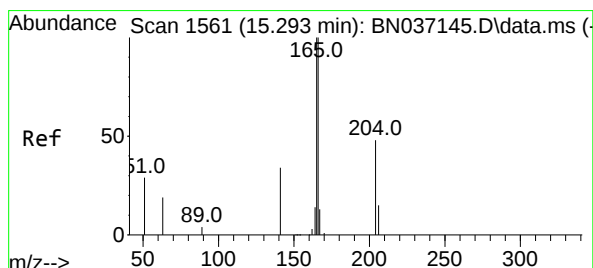
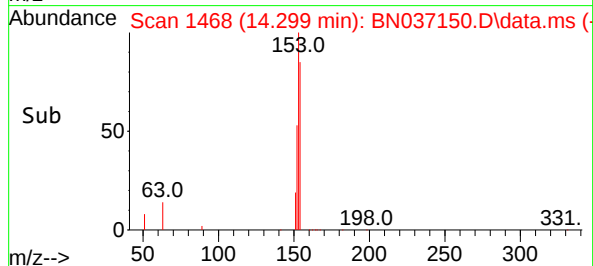
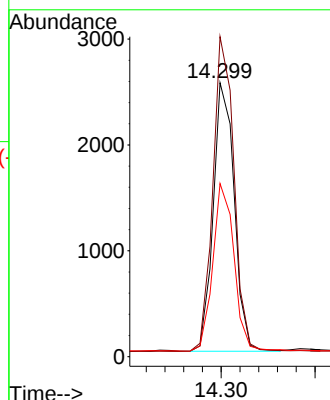
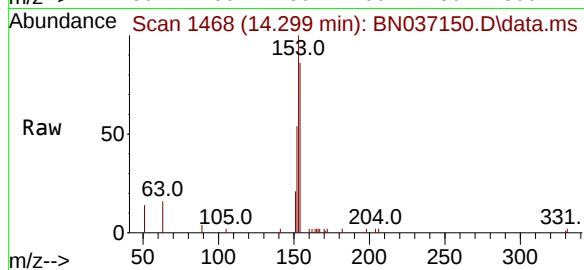
Tgt Ion:154 Resp: 3940

Ion Ratio Lower Upper

154 100

153 118.0 93.8 140.8

152 63.2 50.5 75.7



#18

Fluorene

Concen: 0.373 ng

RT: 15.293 min Scan# 1561

Delta R.T. -0.000 min

Lab File: BN037150.D

Acq: 03 Jun 2025 15:53

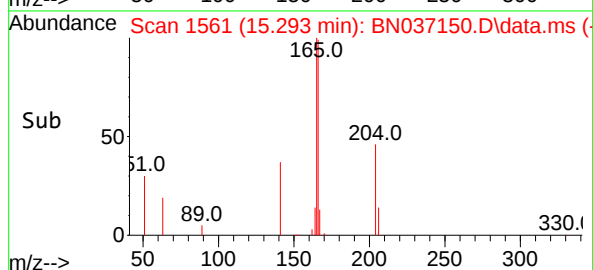
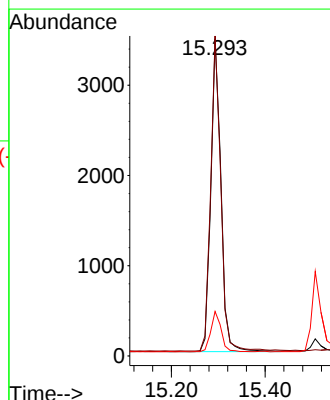
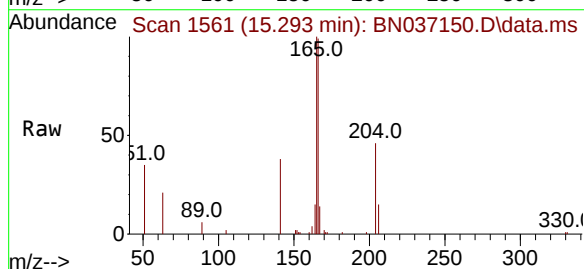
Tgt Ion:166 Resp: 5182

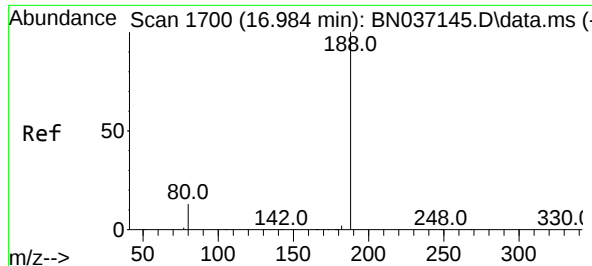
Ion Ratio Lower Upper

166 100

165 100.6 81.1 121.7

167 13.2 10.8 16.2





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 16.984 min Scan# 11

Delta R.T. -0.000 min

Lab File: BN037150.D

Acq: 03 Jun 2025 15:53

Instrument :

BNA\_N

ClientSampleId :

ICVBN060325

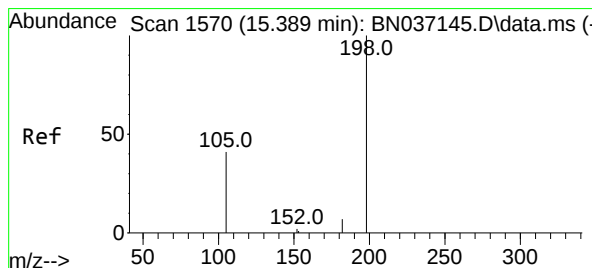
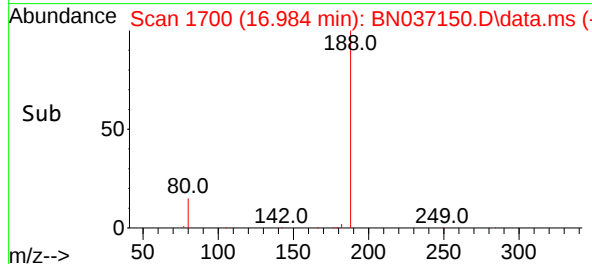
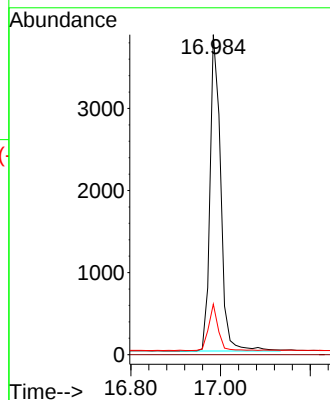
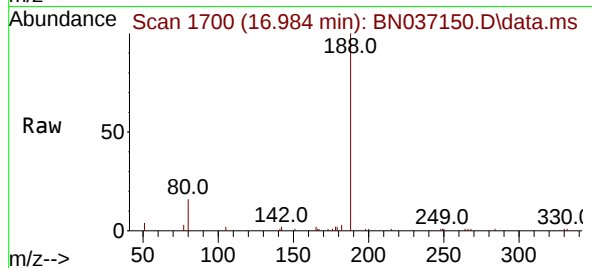
Tgt Ion:188 Resp: 6332

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 15.8 11.3 16.9



#20

4,6-Dinitro-2-methylphenol

Concen: 0.462 ng

RT: 15.389 min Scan# 1570

Delta R.T. 0.000 min

Lab File: BN037150.D

Acq: 03 Jun 2025 15:53

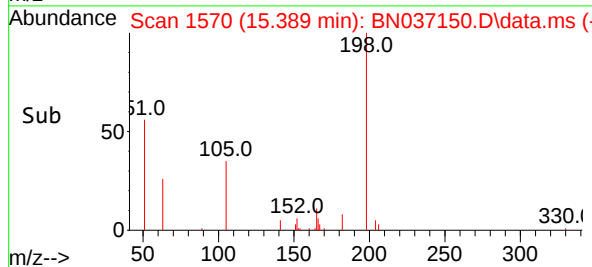
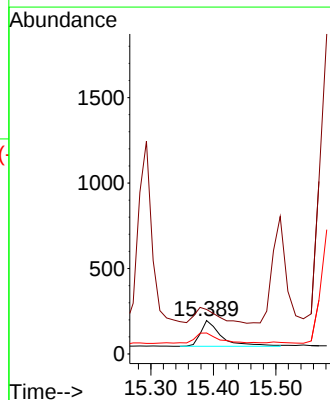
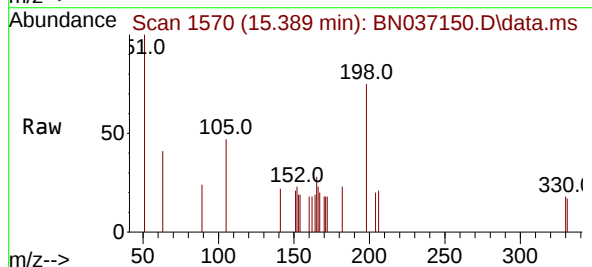
Tgt Ion:198 Resp: 348

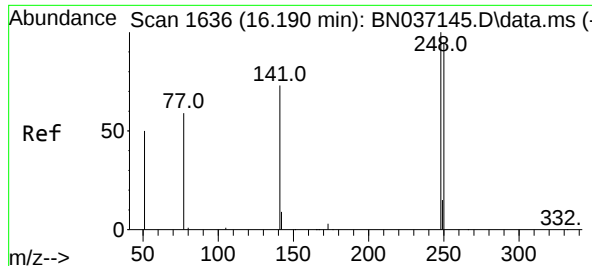
Ion Ratio Lower Upper

198 100

51 132.7 125.2 187.8

105 62.8 57.1 85.7

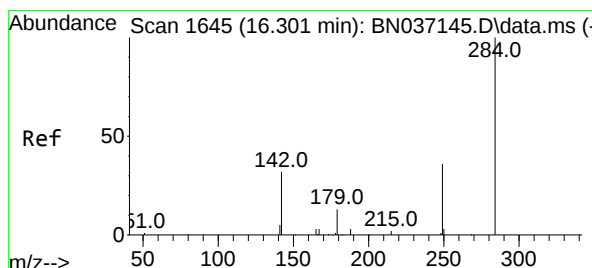
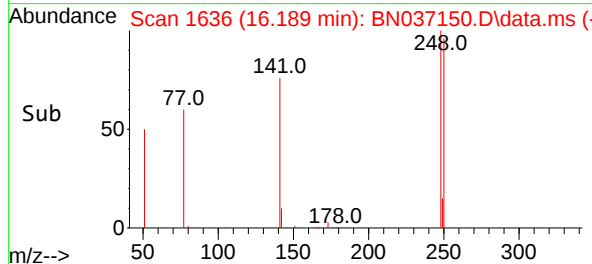
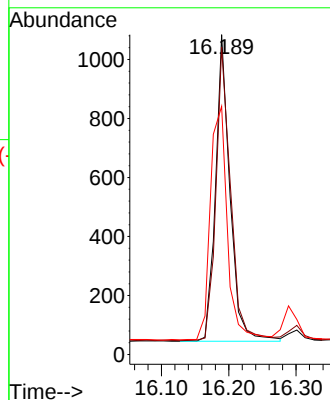
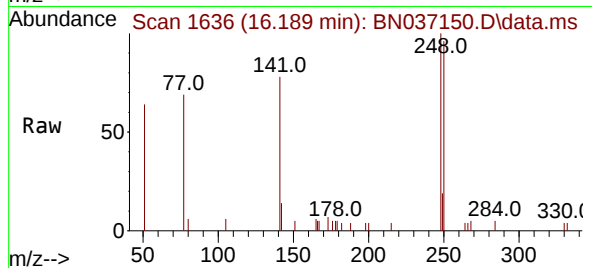




#21  
4-Bromophenyl-phenylether  
Concen: 0.372 ng  
RT: 16.189 min Scan# 1636  
Delta R.T. -0.000 min  
Lab File: BN037150.D  
Acq: 03 Jun 2025 15:53

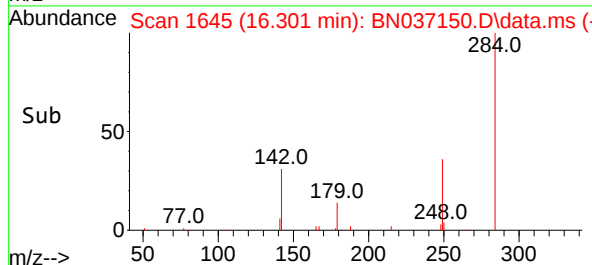
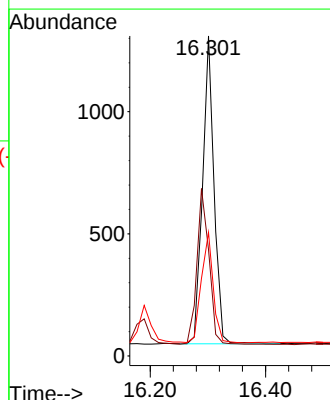
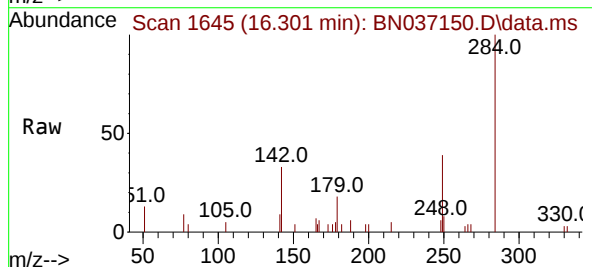
Instrument :  
BNA\_N  
ClientSampleId :  
ICVBN060325

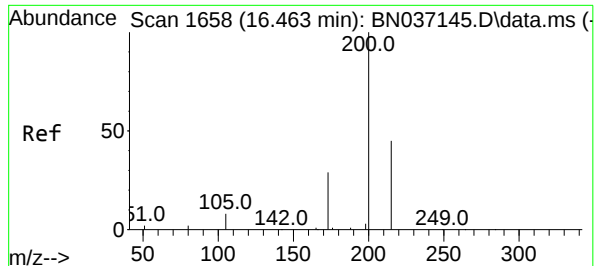
Tgt Ion:248 Resp: 1544  
Ion Ratio Lower Upper  
248 100  
250 96.0 76.1 114.1  
141 77.6 60.1 90.1



#22  
Hexachlorobenzene  
Concen: 0.389 ng  
RT: 16.301 min Scan# 1645  
Delta R.T. -0.000 min  
Lab File: BN037150.D  
Acq: 03 Jun 2025 15:53

Tgt Ion:284 Resp: 1743  
Ion Ratio Lower Upper  
284 100  
142 53.8 44.0 66.0  
249 37.4 29.7 44.5





#23

Atrazine

Concen: 0.374 ng

RT: 16.463 min Scan# 1

Delta R.T. -0.000 min

Lab File: BN037150.D

Acq: 03 Jun 2025 15:53

Instrument :

BNA\_N

ClientSampleId :

ICVBN060325

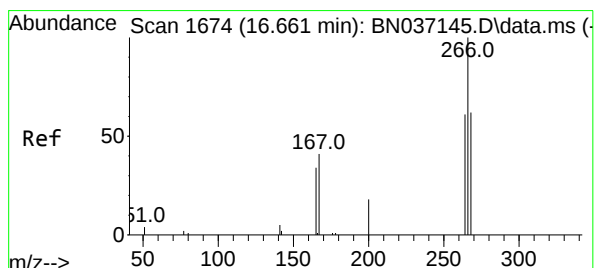
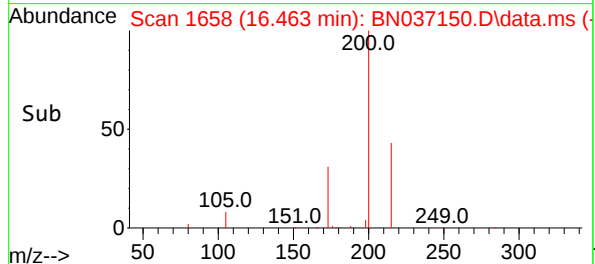
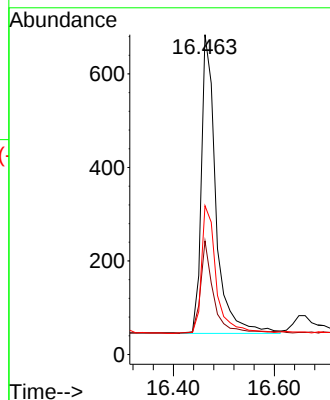
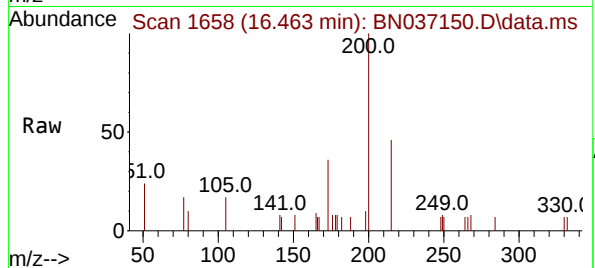
Tgt Ion:200 Resp: 1282

Ion Ratio Lower Upper

200 100

173 35.5 28.1 42.1

215 46.5 39.3 58.9



#24

Pentachlorophenol

Concen: 0.436 ng

RT: 16.661 min Scan# 1674

Delta R.T. 0.000 min

Lab File: BN037150.D

Acq: 03 Jun 2025 15:53

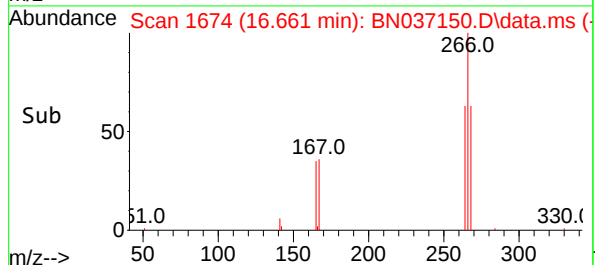
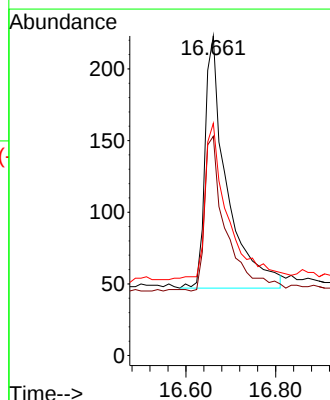
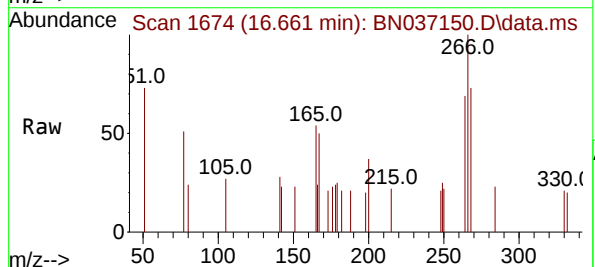
Tgt Ion:266 Resp: 591

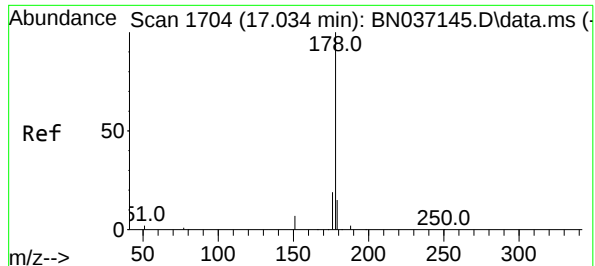
Ion Ratio Lower Upper

266 100

264 60.2 49.3 73.9

268 64.0 49.0 73.4





#25

Phenanthrene

Concen: 0.384 ng

RT: 17.033 min Scan# 1704

Delta R.T. -0.000 min

Lab File: BN037150.D

Acq: 03 Jun 2025 15:53

Instrument :

BNA\_N

ClientSampleId :

ICVBN060325

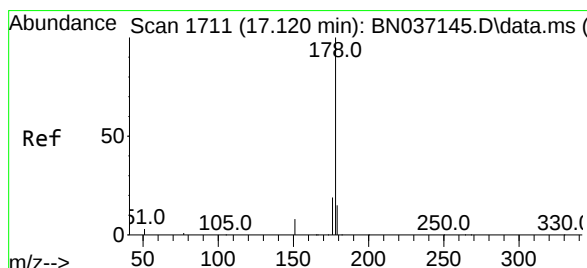
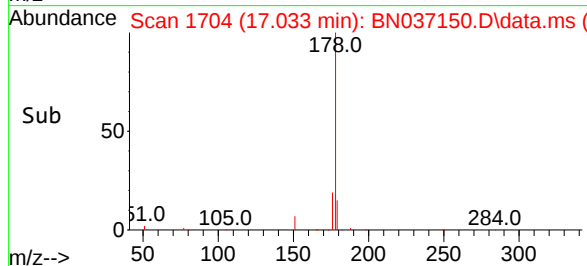
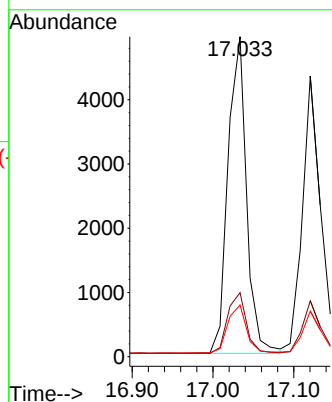
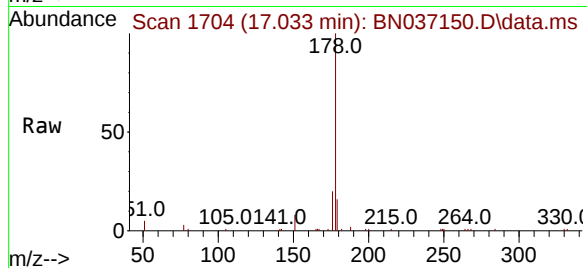
Tgt Ion:178 Resp: 7869

Ion Ratio Lower Upper

178 100

176 19.5 15.7 23.5

179 15.7 12.3 18.5



#26

Anthracene

Concen: 0.380 ng

RT: 17.120 min Scan# 1711

Delta R.T. -0.000 min

Lab File: BN037150.D

Acq: 03 Jun 2025 15:53

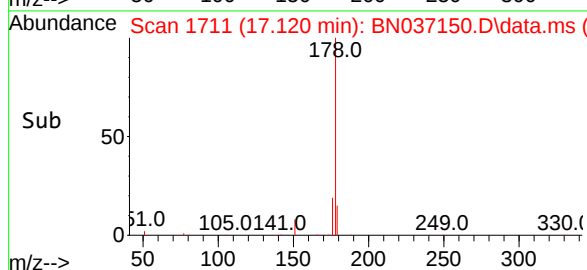
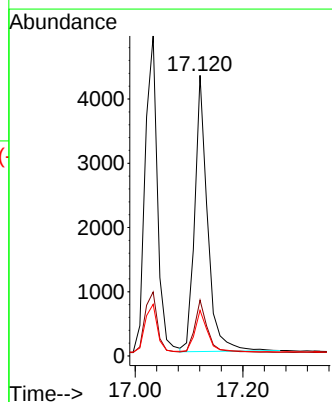
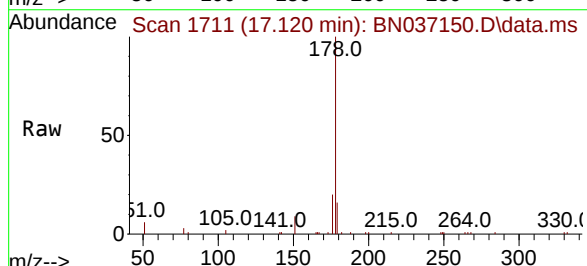
Tgt Ion:178 Resp: 7105

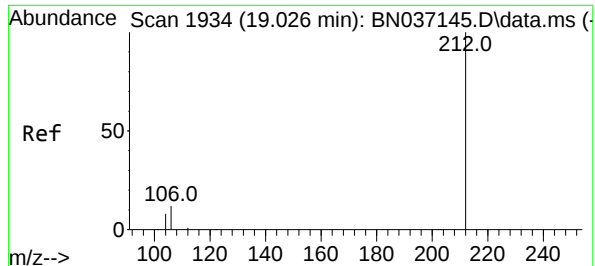
Ion Ratio Lower Upper

178 100

176 19.0 15.2 22.8

179 15.5 12.9 19.3





#27

Fluoranthene-d10

Concen: 0.375 ng

RT: 19.026 min Scan# 1934

Delta R.T. -0.000 min

Lab File: BN037150.D

Acq: 03 Jun 2025 15:53

Instrument :

BNA\_N

ClientSampleId :

ICVBN060325

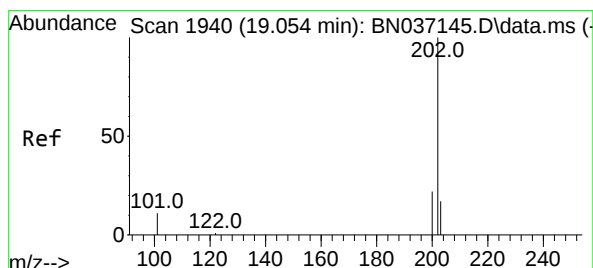
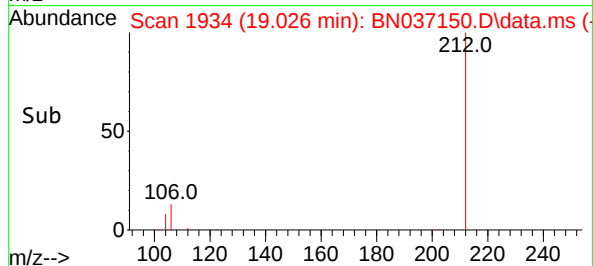
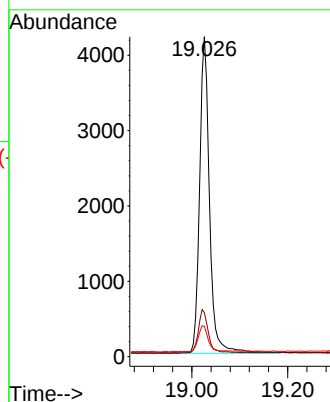
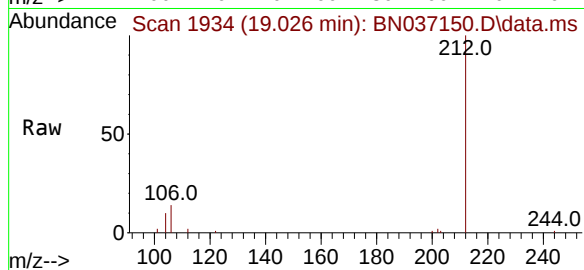
Tgt Ion:212 Resp: 6037

Ion Ratio Lower Upper

212 100

106 13.7 10.6 15.8

104 8.2 6.6 9.8



#28

Fluoranthene

Concen: 0.361 ng

RT: 19.054 min Scan# 1940

Delta R.T. -0.000 min

Lab File: BN037150.D

Acq: 03 Jun 2025 15:53

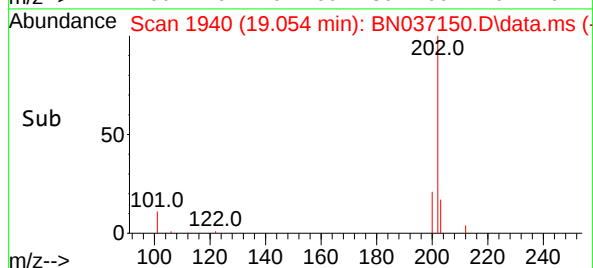
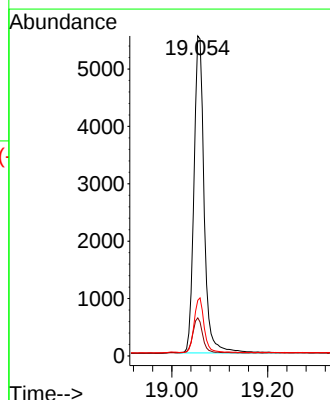
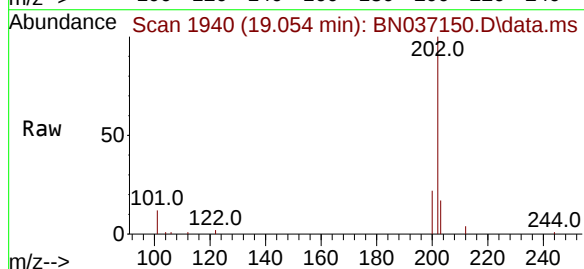
Tgt Ion:202 Resp: 8186

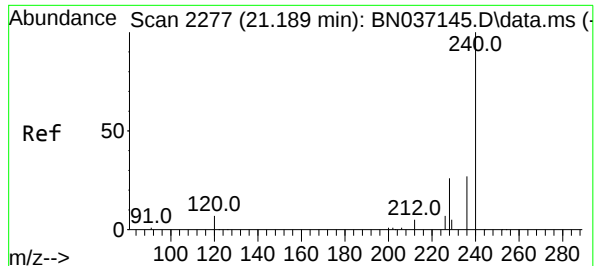
Ion Ratio Lower Upper

202 100

101 11.4 8.7 13.1

203 16.7 13.5 20.3





#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.189 min Scan# 21

Delta R.T. -0.000 min

Lab File: BN037150.D

Acq: 03 Jun 2025 15:53

Instrument :

BNA\_N

ClientSampleId :

ICVBN060325

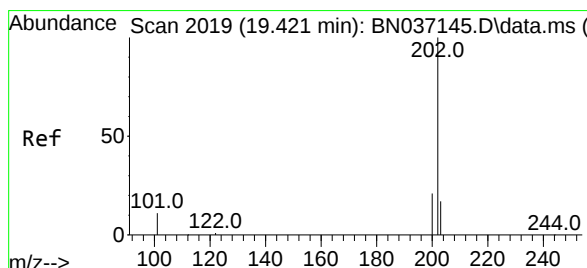
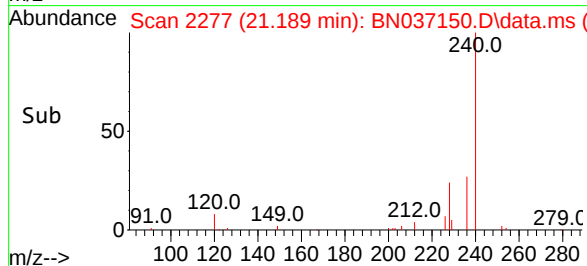
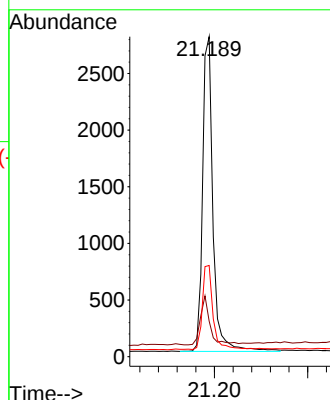
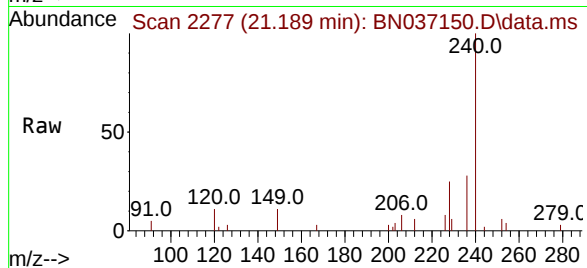
Tgt Ion:240 Resp: 4292

Ion Ratio Lower Upper

240 100

120 11.1 9.0 13.4

236 28.5 23.0 34.4



#30

Pyrene

Concen: 0.389 ng

RT: 19.421 min Scan# 2019

Delta R.T. -0.000 min

Lab File: BN037150.D

Acq: 03 Jun 2025 15:53

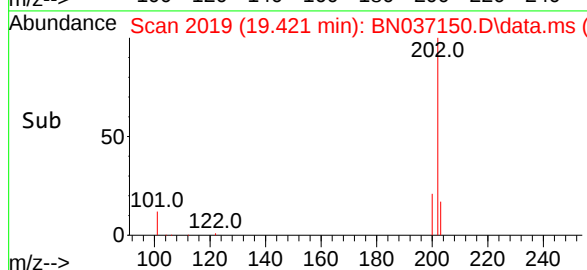
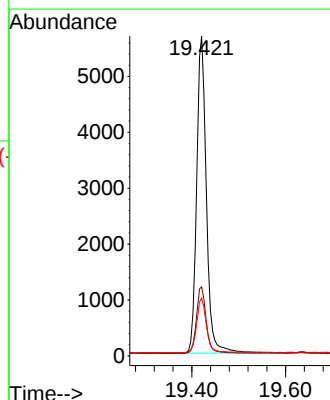
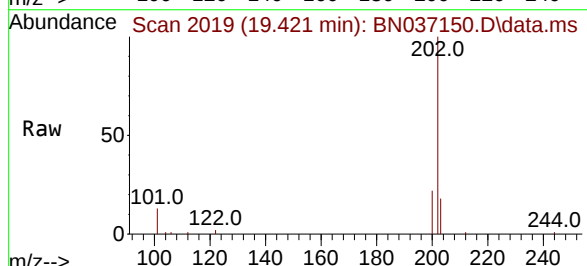
Tgt Ion:202 Resp: 8148

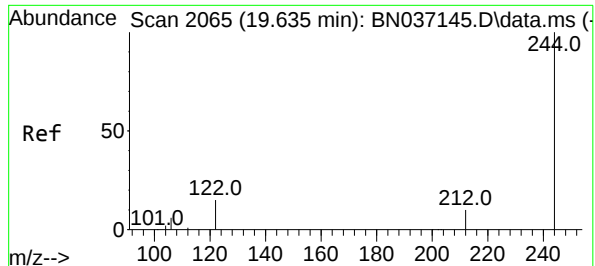
Ion Ratio Lower Upper

202 100

200 21.0 17.0 25.6

203 17.3 14.2 21.4





#31

Terphenyl-d14

Concen: 0.415 ng

RT: 19.635 min Scan# 2065

Delta R.T. -0.000 min

Lab File: BN037150.D

Acq: 03 Jun 2025 15:53

Instrument :

BNA\_N

ClientSampleId :

ICVBN060325

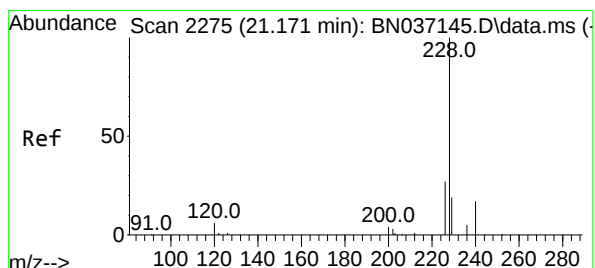
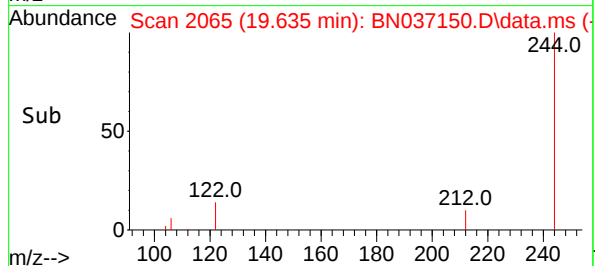
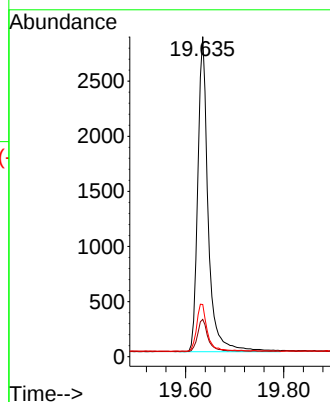
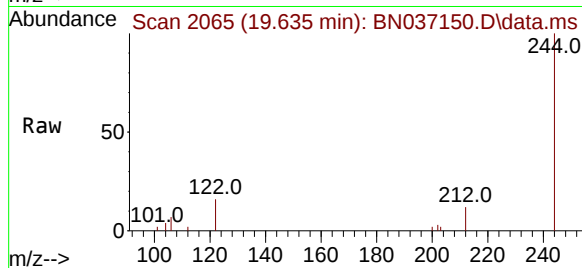
Tgt Ion:244 Resp: 4196

Ion Ratio Lower Upper

244 100

212 11.6 10.0 15.0

122 16.3 13.2 19.8



#32

Benzo(a)anthracene

Concen: 0.383 ng

RT: 21.171 min Scan# 2275

Delta R.T. -0.000 min

Lab File: BN037150.D

Acq: 03 Jun 2025 15:53

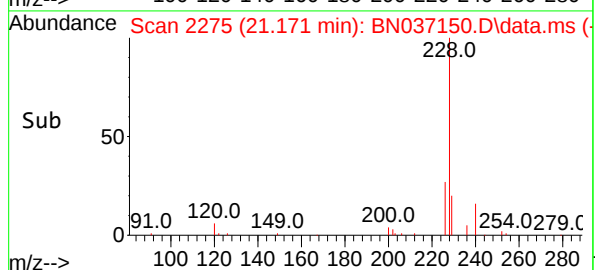
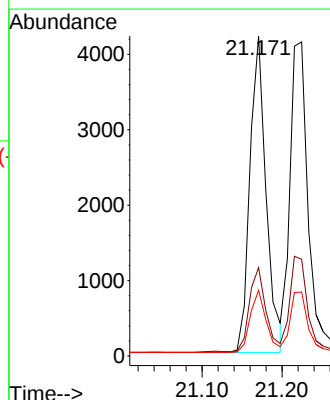
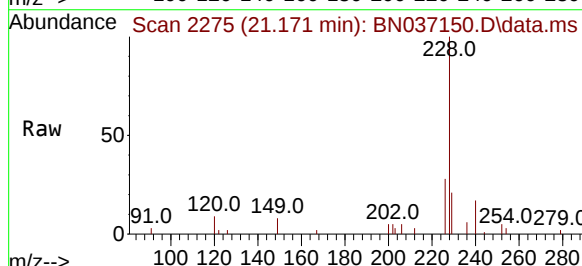
Tgt Ion:228 Resp: 5949

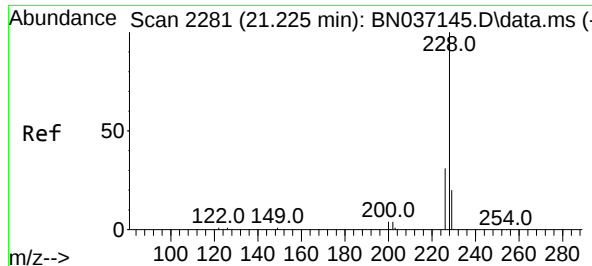
Ion Ratio Lower Upper

228 100

226 27.6 22.6 33.8

229 20.5 16.2 24.2





#33

Chrysene

Concen: 0.385 ng

RT: 21.224 min Scan# 21

Delta R.T. -0.000 min

Lab File: BN037150.D

Acq: 03 Jun 2025 15:53

Instrument :

BNA\_N

ClientSampleId :

ICVBN060325

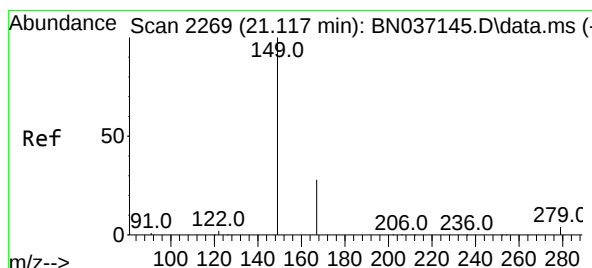
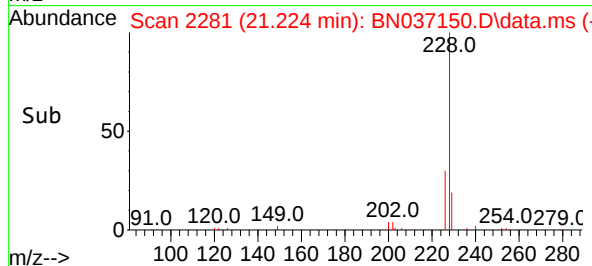
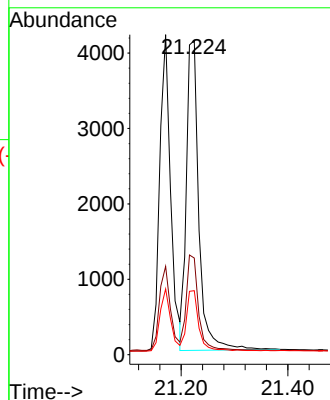
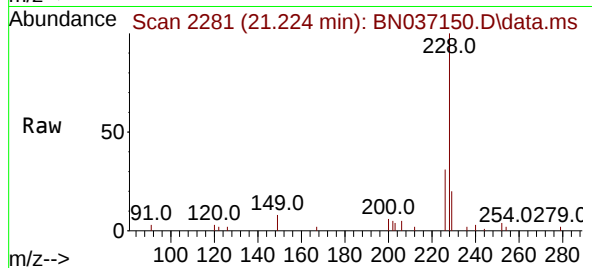
Tgt Ion:228 Resp: 6661

Ion Ratio Lower Upper

228 100

226 30.8 25.2 37.8

229 20.4 16.8 25.2



#34

Bis(2-ethylhexyl)phthalate

Concen: 0.371 ng

RT: 21.117 min Scan# 2269

Delta R.T. -0.000 min

Lab File: BN037150.D

Acq: 03 Jun 2025 15:53

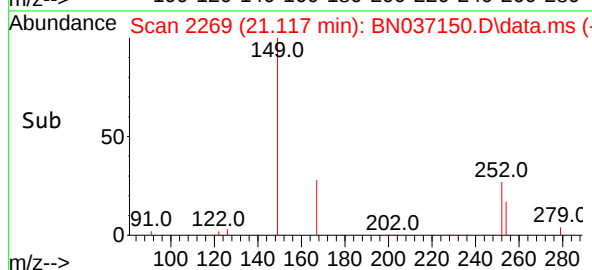
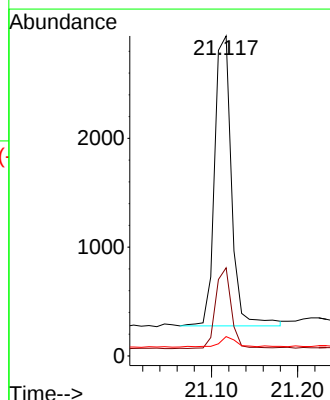
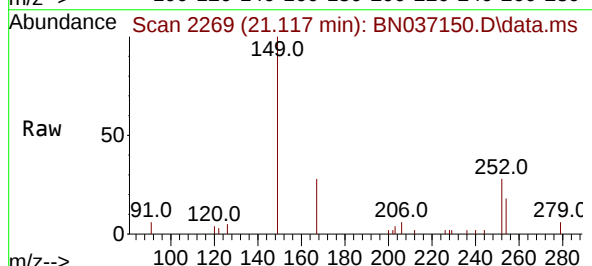
Tgt Ion:149 Resp: 3635

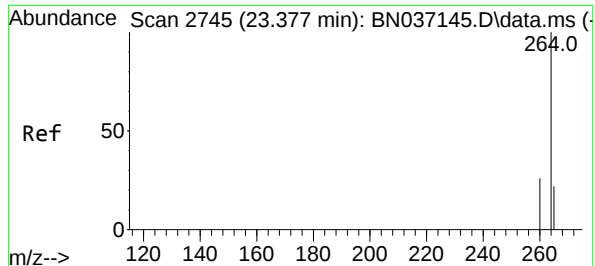
Ion Ratio Lower Upper

149 100

167 25.6 21.0 31.4

279 3.4 2.9 4.3





#35

Perylene-d12

Concen: 0.400 ng

RT: 23.377 min Scan# 21

Delta R.T. -0.000 min

Lab File: BN037150.D

Acq: 03 Jun 2025 15:53

Instrument :

BNA\_N

ClientSampleId :

ICVBN060325

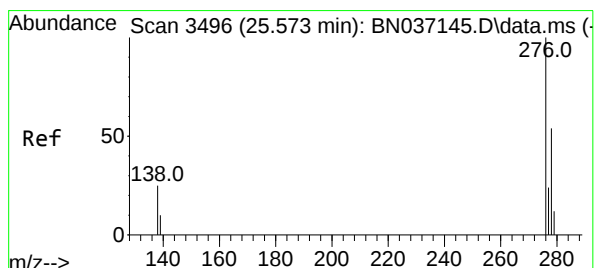
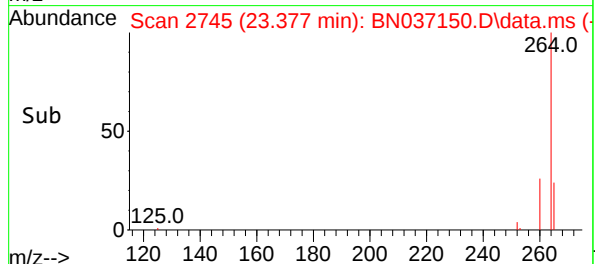
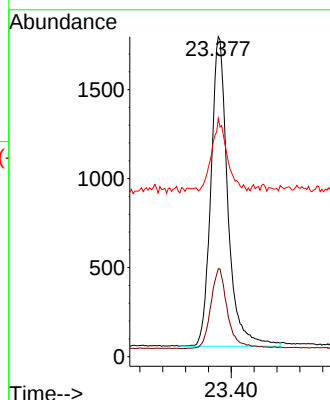
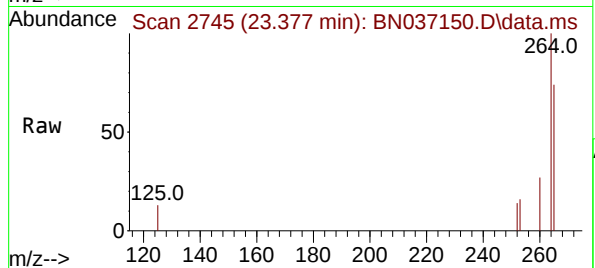
Tgt Ion:264 Resp: 3564

Ion Ratio Lower Upper

264 100

260 27.5 22.1 33.1

265 74.5 55.8 83.8



#36

Indeno(1,2,3-cd)pyrene

Concen: 0.385 ng

RT: 25.573 min Scan# 3496

Delta R.T. -0.000 min

Lab File: BN037150.D

Acq: 03 Jun 2025 15:53

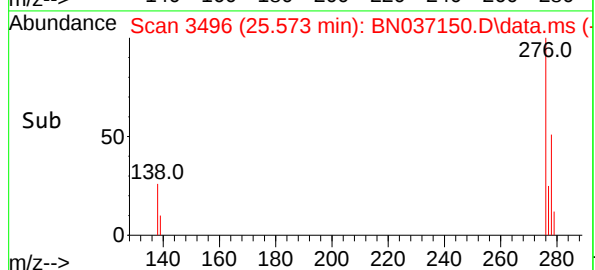
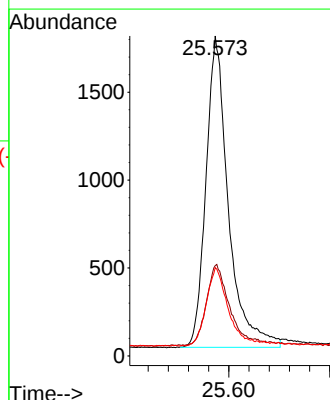
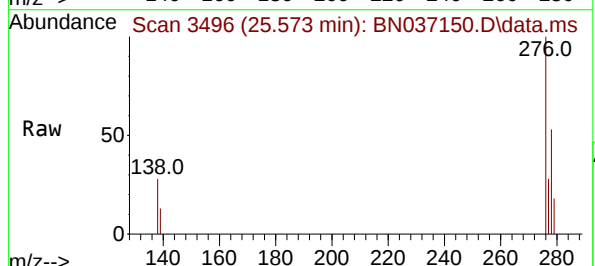
Tgt Ion:276 Resp: 5461

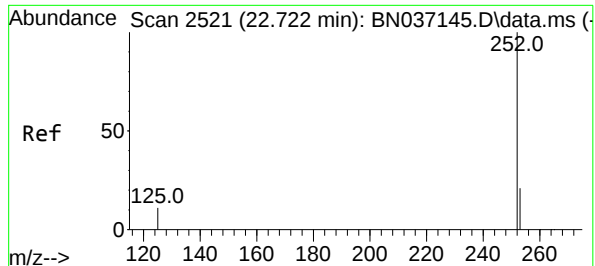
Ion Ratio Lower Upper

276 100

138 26.2 21.0 31.6

277 24.3 19.4 29.2





#37

Benzo(b)fluoranthene

Concen: 0.378 ng

RT: 22.720 min Scan# 2520

Delta R.T. -0.003 min

Lab File: BN037150.D

Acq: 03 Jun 2025 15:53

Instrument :

BNA\_N

ClientSampleId :

ICVBN060325

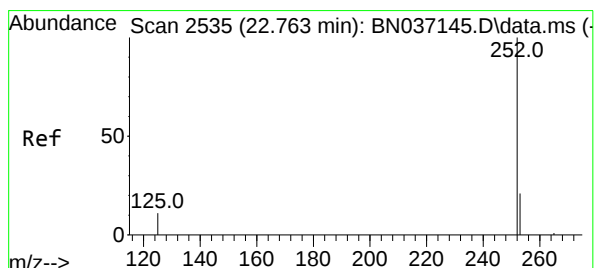
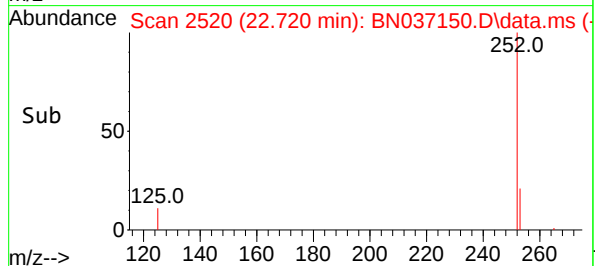
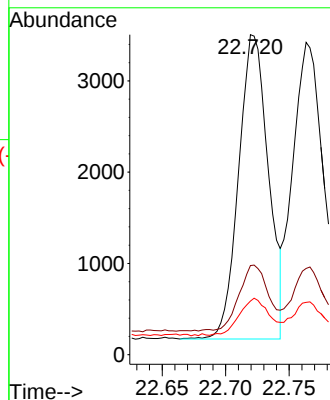
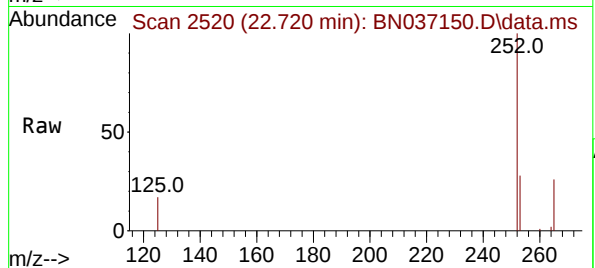
Tgt Ion:252 Resp: 5432

Ion Ratio Lower Upper

252 100

253 27.8 22.3 33.5

125 16.7 13.2 19.8



#38

Benzo(k)fluoranthene

Concen: 0.399 ng

RT: 22.763 min Scan# 2535

Delta R.T. -0.000 min

Lab File: BN037150.D

Acq: 03 Jun 2025 15:53

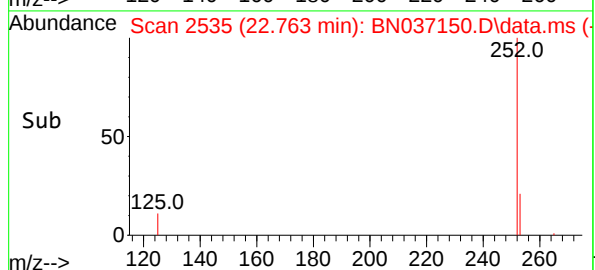
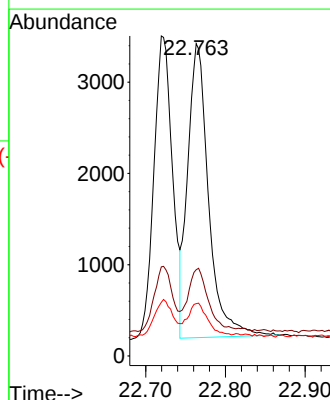
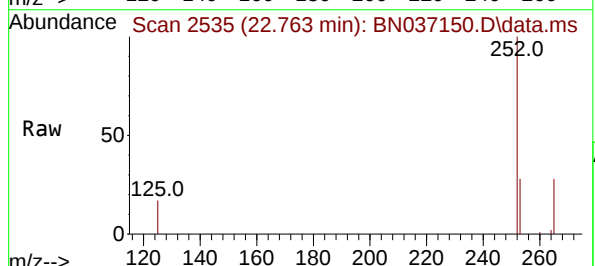
Tgt Ion:252 Resp: 5859

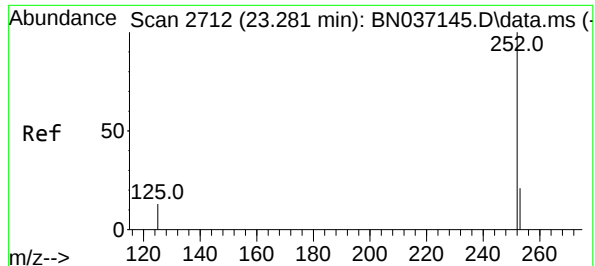
Ion Ratio Lower Upper

252 100

253 27.6 22.2 33.4

125 16.7 13.2 19.8





#39

Benzo(a)pyrene

Concen: 0.409 ng

RT: 23.281 min Scan# 21

Delta R.T. -0.000 min

Lab File: BN037150.D

Acq: 03 Jun 2025 15:53

Instrument :

BNA\_N

ClientSampleId :

ICVBN060325

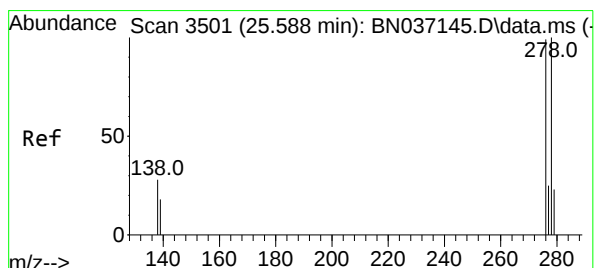
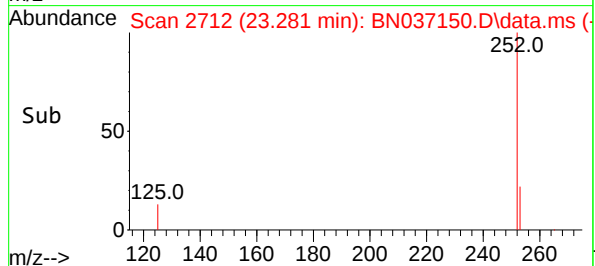
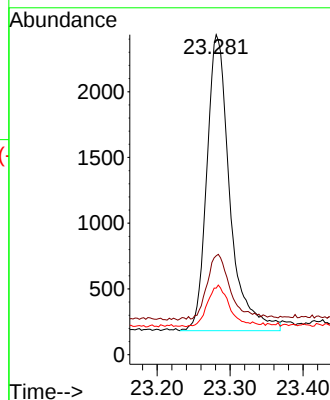
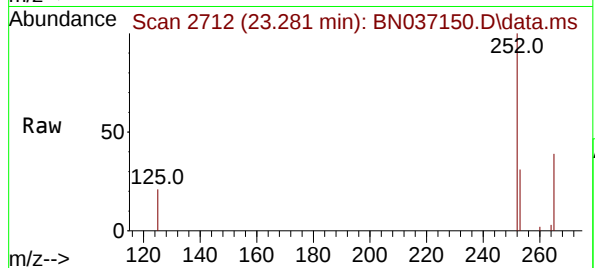
Tgt Ion:252 Resp: 4925

Ion Ratio Lower Upper

252 100

253 30.9 25.0 37.4

125 20.8 17.0 25.6



#40

Dibenzo(a,h)anthracene

Concen: 0.387 ng

RT: 25.588 min Scan# 3501

Delta R.T. -0.000 min

Lab File: BN037150.D

Acq: 03 Jun 2025 15:53

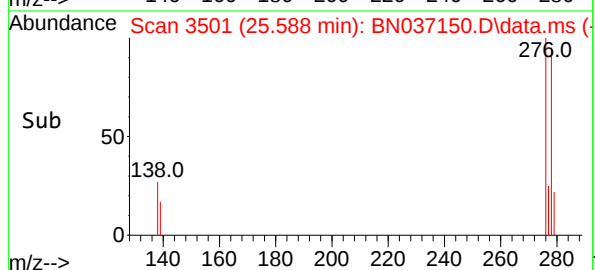
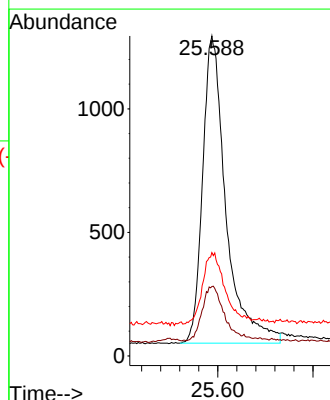
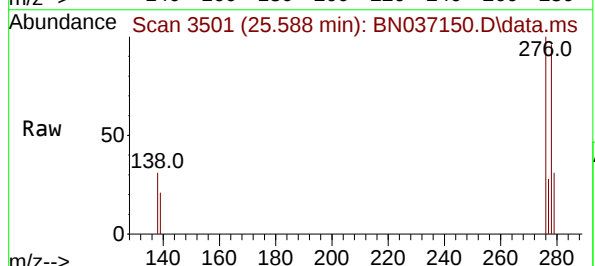
Tgt Ion:278 Resp: 4227

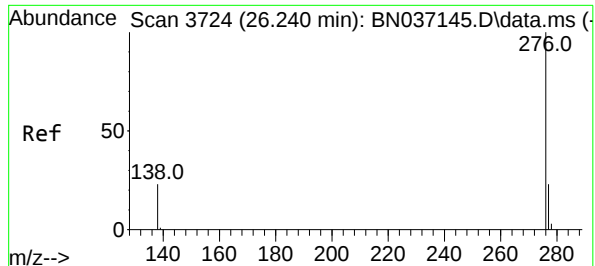
Ion Ratio Lower Upper

278 100

139 21.7 17.6 26.4

279 32.3 26.0 39.0





#41

Benzo(g,h,i)perylene

Concen: 0.368 ng

RT: 26.248 min Scan# 31

Delta R.T. 0.009 min

Lab File: BN037150.D

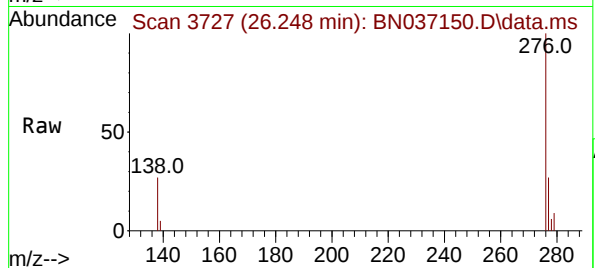
Acq: 03 Jun 2025 15:53

Instrument :

BNA\_N

ClientSampleId :

ICVBN060325



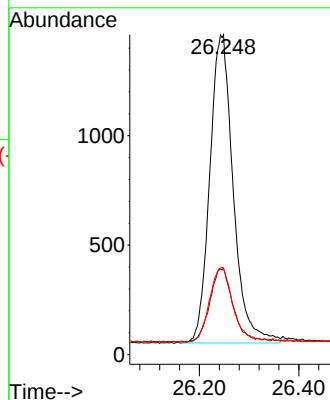
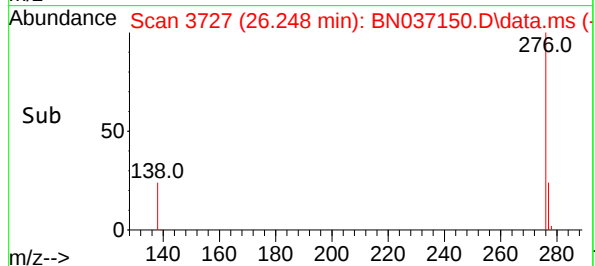
Tgt Ion:276 Resp: 4620

Ion Ratio Lower Upper

276 100

277 27.0 20.9 31.3

138 26.8 20.8 31.2



Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN060325\  
Data File : BN037150.D  
Acq On : 03 Jun 2025 15:53  
Operator : RC/JU  
Sample : SSTDICV0.4  
Misc :  
ALS Vial : 9 Sample Multiplier: 1

Instrument :  
BNA\_N  
ClientSampleId :  
ICVBN060325

Quant Time: Jun 04 01:54:08 2025  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\8270-SIM-BN060325.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Wed Jun 04 01:52:03 2025  
Response via : Initial Calibration

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

|         | Compound                   | AvgRF | CCRF  | %Dev  | Area% | Dev(min) |
|---------|----------------------------|-------|-------|-------|-------|----------|
| 1 I     | 1,4-Dichlorobenzene-d4     | 1.000 | 1.000 | 0.0   | 107   | 0.00     |
| 2       | 1,4-Dioxane                | 0.533 | 0.551 | -3.4  | 116   | 0.00     |
| 3       | n-Nitrosodimethylamine     | 1.071 | 1.045 | 2.4   | 106   | 0.00     |
| 4 S     | 2-Fluorophenol             | 0.989 | 0.894 | 9.6   | 102   | 0.00     |
| 5 S     | Phenol-d6                  | 1.199 | 1.073 | 10.5  | 102   | 0.00     |
| 6       | bis(2-Chloroethyl)ether    | 1.144 | 1.205 | -5.3  | 115   | 0.00     |
| 7 I     | Naphthalene-d8             | 1.000 | 1.000 | 0.0   | 113   | 0.00     |
| 8 S     | Nitrobenzene-d5            | 0.422 | 0.420 | 0.5   | 113   | 0.00     |
| 9       | Naphthalene                | 1.154 | 1.137 | 1.5   | 115   | 0.01     |
| 10      | Hexachlorobutadiene        | 0.251 | 0.253 | -0.8  | 109   | 0.00     |
| 11 SURR | 2-Methylnaphthalene-d10    | 0.557 | 0.554 | 0.5   | 111   | 0.00     |
| 12      | 2-Methylnaphthalene        | 0.740 | 0.652 | 11.9  | 106   | 0.00     |
| 13 I    | Acenaphthene-d10           | 1.000 | 1.000 | 0.0   | 115   | 0.01     |
| 14 S    | 2,4,6-Tribromophenol       | 0.161 | 0.133 | 17.4  | 105   | 0.00     |
| 15 S    | 2-Fluorobiphenyl           | 1.705 | 1.716 | -0.6  | 121   | 0.00     |
| 16      | Acenaphthylene             | 1.961 | 1.980 | -1.0  | 129   | 0.00     |
| 17      | Acenaphthene               | 1.273 | 1.187 | 6.8   | 118   | 0.00     |
| 18      | Fluorene                   | 1.674 | 1.561 | 6.8   | 118   | 0.00     |
| 19 I    | Phenanthrene-d10           | 1.000 | 1.000 | 0.0   | 116   | 0.00     |
| 20      | 4,6-Dinitro-2-methylphenol | 0.077 | 0.055 | 28.6# | 128   | 0.00     |
| 21      | 4-Bromophenyl-phenylether  | 0.262 | 0.244 | 6.9   | 116   | 0.00     |
| 22      | Hexachlorobenzene          | 0.283 | 0.275 | 2.8   | 119   | 0.00     |
| 23      | Atrazine                   | 0.216 | 0.202 | 6.5   | 126   | 0.00     |
| 24      | Pentachlorophenol          | 0.124 | 0.093 | 25.0  | 118   | 0.00     |
| 25      | Phenanthrene               | 1.296 | 1.243 | 4.1   | 121   | 0.00     |
| 26      | Anthracene                 | 1.183 | 1.122 | 5.2   | 126   | 0.00     |
| 27 SURR | Fluoranthene-d10           | 1.016 | 0.953 | 6.2   | 114   | 0.00     |
| 28      | Fluoranthene               | 1.432 | 1.293 | 9.7   | 118   | 0.00     |
| 29 I    | Chrysene-d12               | 1.000 | 1.000 | 0.0   | 114   | 0.00     |
| 30      | Pyrene                     | 1.953 | 1.898 | 2.8   | 118   | 0.00     |
| 31 S    | Terphenyl-d14              | 0.942 | 0.978 | -3.8  | 124   | 0.00     |
| 32      | Benzo(a)anthracene         | 1.448 | 1.386 | 4.3   | 122   | 0.00     |
| 33      | Chrysene                   | 1.612 | 1.552 | 3.7   | 120   | 0.00     |
| 34      | Bis(2-ethylhexyl)phthalate | 0.914 | 0.847 | 7.3   | 125   | 0.00     |
| 35 I    | Perylene-d12               | 1.000 | 1.000 | 0.0   | 105   | 0.00     |
| 36      | Indeno(1,2,3-cd)pyrene     | 1.591 | 1.532 | 3.7   | 107   | 0.00     |
| 37      | Benzo(b)fluoranthene       | 1.615 | 1.524 | 5.6   | 113   | 0.00     |
| 38      | Benzo(k)fluoranthene       | 1.648 | 1.644 | 0.2   | 118   | 0.00     |
| 39 C    | Benzo(a)pyrene             | 1.352 | 1.382 | -2.2  | 119   | 0.00     |
| 40      | Dibenzo(a,h)anthracene     | 1.227 | 1.186 | 3.3   | 108   | 0.00     |
| 41      | Benzo(g,h,i)perylene       | 1.410 | 1.296 | 8.1   | 101   | 0.00     |

(#) = Out of Range

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

Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN060325\  
Data File : BN037150.D  
Acq On : 03 Jun 2025 15:53  
Operator : RC/JU  
Sample : SSTDICV0.4  
Misc :  
ALS Vial : 9 Sample Multiplier: 1

Instrument :  
BNA\_N  
ClientSampleId :  
ICVBN060325

Quant Time: Jun 04 01:54:08 2025  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\8270-SIM-BN060325.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Wed Jun 04 01:52:03 2025  
Response via : Initial Calibration

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

|         | Compound                   | Amount | Calc. | %Dev  | Area% | Dev(min) |
|---------|----------------------------|--------|-------|-------|-------|----------|
| 1 I     | 1,4-Dichlorobenzene-d4     | 0.400  | 0.400 | 0.0   | 107   | 0.00     |
| 2       | 1,4-Dioxane                | 0.400  | 0.413 | -3.2  | 116   | 0.00     |
| 3       | n-Nitrosodimethylamine     | 0.400  | 0.390 | 2.5   | 106   | 0.00     |
| 4 S     | 2-Fluorophenol             | 0.400  | 0.361 | 9.8   | 102   | 0.00     |
| 5 S     | Phenol-d6                  | 0.400  | 0.358 | 10.5  | 102   | 0.00     |
| 6       | bis(2-Chloroethyl)ether    | 0.400  | 0.421 | -5.2  | 115   | 0.00     |
| 7 I     | Naphthalene-d8             | 0.400  | 0.400 | 0.0   | 113   | 0.00     |
| 8 S     | Nitrobenzene-d5            | 0.400  | 0.398 | 0.5   | 113   | 0.00     |
| 9       | Naphthalene                | 0.400  | 0.394 | 1.5   | 115   | 0.01     |
| 10      | Hexachlorobutadiene        | 0.400  | 0.402 | -0.5  | 109   | 0.00     |
| 11 SURR | 2-Methylnaphthalene-d10    | 0.400  | 0.398 | 0.5   | 111   | 0.00     |
| 12      | 2-Methylnaphthalene        | 0.400  | 0.352 | 12.0  | 106   | 0.00     |
| 13 I    | Acenaphthene-d10           | 0.400  | 0.400 | 0.0   | 115   | 0.01     |
| 14 S    | 2,4,6-Tribromophenol       | 0.400  | 0.329 | 17.8  | 105   | 0.00     |
| 15 S    | 2-Fluorobiphenyl           | 0.400  | 0.402 | -0.5  | 121   | 0.00     |
| 16      | Acenaphthylene             | 0.400  | 0.404 | -1.0  | 129   | 0.00     |
| 17      | Acenaphthene               | 0.400  | 0.373 | 6.8   | 118   | 0.00     |
| 18      | Fluorene                   | 0.400  | 0.373 | 6.8   | 118   | 0.00     |
| 19 I    | Phenanthrene-d10           | 0.400  | 0.400 | 0.0   | 116   | 0.00     |
| 20      | 4,6-Dinitro-2-methylphenol | 0.400  | 0.462 | -15.5 | 128   | 0.00     |
| 21      | 4-Bromophenyl-phenylether  | 0.400  | 0.372 | 7.0   | 116   | 0.00     |
| 22      | Hexachlorobenzene          | 0.400  | 0.389 | 2.8   | 119   | 0.00     |
| 23      | Atrazine                   | 0.400  | 0.374 | 6.5   | 126   | 0.00     |
| 24      | Pentachlorophenol          | 0.400  | 0.436 | -9.0  | 118   | 0.00     |
| 25      | Phenanthrene               | 0.400  | 0.384 | 4.0   | 121   | 0.00     |
| 26      | Anthracene                 | 0.400  | 0.380 | 5.0   | 126   | 0.00     |
| 27 SURR | Fluoranthene-d10           | 0.400  | 0.375 | 6.3   | 114   | 0.00     |
| 28      | Fluoranthene               | 0.400  | 0.361 | 9.8   | 118   | 0.00     |
| 29 I    | Chrysene-d12               | 0.400  | 0.400 | 0.0   | 114   | 0.00     |
| 30      | Pyrene                     | 0.400  | 0.389 | 2.8   | 118   | 0.00     |
| 31 S    | Terphenyl-d14              | 0.400  | 0.415 | -3.7  | 124   | 0.00     |
| 32      | Benzo(a)anthracene         | 0.400  | 0.383 | 4.3   | 122   | 0.00     |
| 33      | Chrysene                   | 0.400  | 0.385 | 3.8   | 120   | 0.00     |
| 34      | Bis(2-ethylhexyl)phthalate | 0.400  | 0.371 | 7.3   | 125   | 0.00     |
| 35 I    | Perylene-d12               | 0.400  | 0.400 | 0.0   | 105   | 0.00     |
| 36      | Indeno(1,2,3-cd)pyrene     | 0.400  | 0.385 | 3.8   | 107   | 0.00     |
| 37      | Benzo(b)fluoranthene       | 0.400  | 0.378 | 5.5   | 113   | 0.00     |
| 38      | Benzo(k)fluoranthene       | 0.400  | 0.399 | 0.3   | 118   | 0.00     |
| 39 C    | Benzo(a)pyrene             | 0.400  | 0.409 | -2.2  | 119   | 0.00     |
| 40      | Dibenzo(a,h)anthracene     | 0.400  | 0.387 | 3.3   | 108   | 0.00     |
| 41      | Benzo(g,h,i)perylene       | 0.400  | 0.368 | 8.0   | 101   | 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: ALLI03

Lab Code: CHEM Case No.: Q2181 SAS No.: Q2181 SDG No.: Q2181

Instrument ID: BNA\_N Calibration Date/Time: 06/04/2025 10:27

Lab File ID: BN037166.D Init. Calib. Date(s): 06/03/2025 06/03/2025

EPA Sample No.: SSTDCCC0.4 Init. Calib. Time(s): 11:39 15:14

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

| COMPOUND                | RRF   | RRF0.4 | MIN<br>RRF | %D    | MAX%D |
|-------------------------|-------|--------|------------|-------|-------|
| 2-Methylnaphthalene-d10 | 0.557 | 0.558  |            | 0.2   | 20.0  |
| Fluoranthene-d10        | 1.016 | 0.928  |            | -8.7  | 20.0  |
| 2-Fluorophenol          | 0.989 | 0.951  |            | -3.8  | 20.0  |
| Phenol-d6               | 1.199 | 1.170  |            | -2.4  | 20.0  |
| Nitrobenzene-d5         | 0.422 | 0.420  |            | -0.5  | 20.0  |
| 2-Fluorobiphenyl        | 1.705 | 1.701  |            | -0.2  | 20.0  |
| Acenaphthylene          | 1.961 | 1.775  |            | -9.5  | 20.0  |
| 2,4,6-Tribromophenol    | 0.161 | 0.138  |            | -14.3 | 20.0  |
| Terphenyl-d14           | 0.942 | 0.909  |            | -3.5  | 20.0  |

All other compounds must meet a minimum RRF of 0.010.

Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN060425\  
 Data File : BN037166.D  
 Acq On : 04 Jun 2025 10:27  
 Operator : RC/JU  
 Sample : SSTDCCC0.4  
 Misc :  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 BNA\_N  
 ClientSampleId :  
 SSTDCCC0.4

Quant Time: Jun 04 10:54:51 2025  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\8270-SIM-BN060325.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Wed Jun 04 01:52:03 2025  
 Response via : Initial Calibration

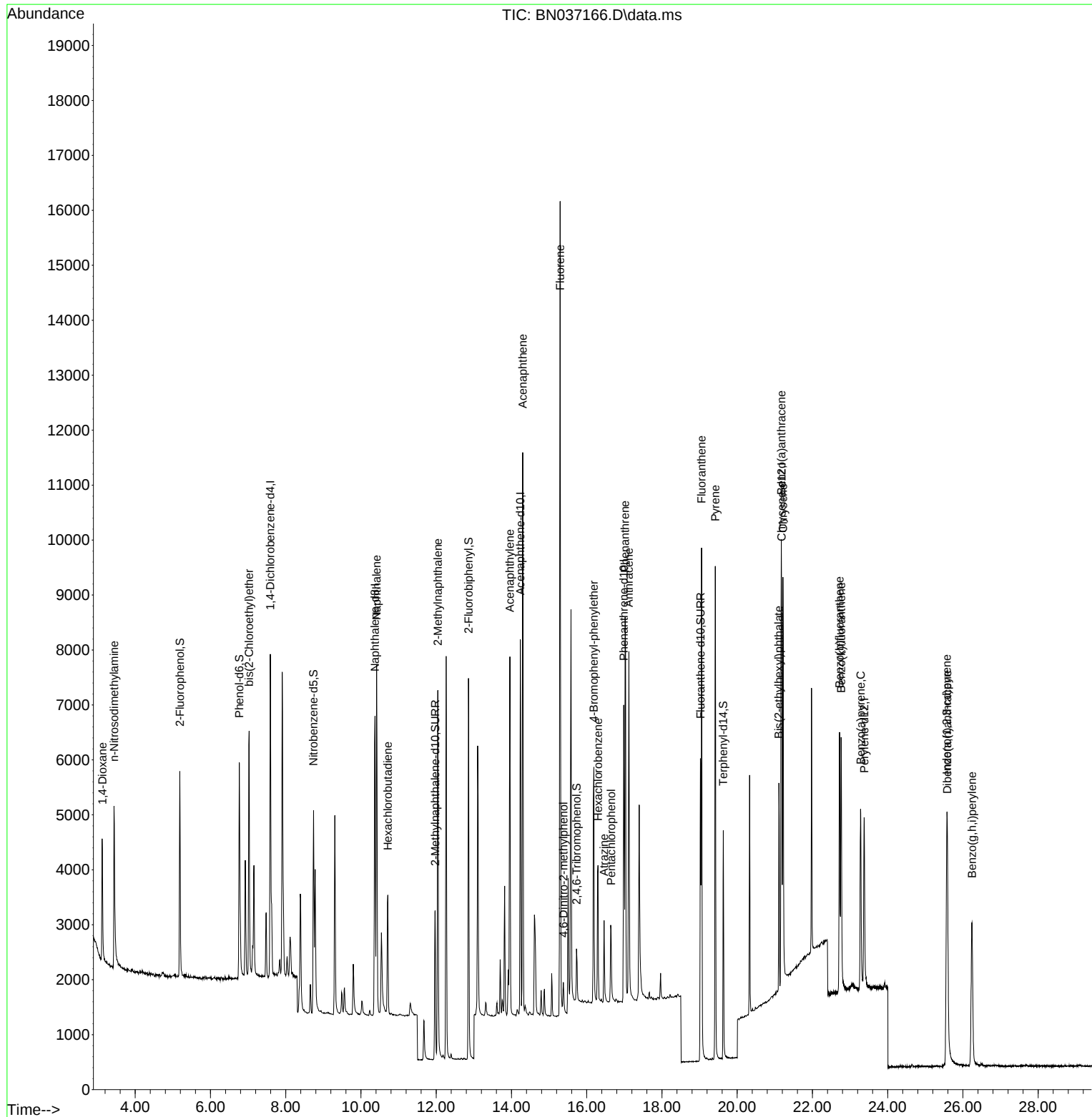
| Compound                      | R.T.   | QIon | Response | Conc  | Units | Dev(Min)  |
|-------------------------------|--------|------|----------|-------|-------|-----------|
| Internal Standards            |        |      |          |       |       |           |
| 1) 1,4-Dichlorobenzene-d4     | 7.589  | 152  | 2757     | 0.400 | ng    | 0.00      |
| 7) Naphthalene-d8             | 10.372 | 136  | 7191     | 0.400 | ng    | 0.00      |
| 13) Acenaphthene-d10          | 14.234 | 164  | 3834     | 0.400 | ng    | 0.00      |
| 19) Phenanthrene-d10          | 16.984 | 188  | 6868     | 0.400 | ng    | 0.00      |
| 29) Chrysene-d12              | 21.180 | 240  | 4452     | 0.400 | ng    | # 0.00    |
| 35) Perylene-d12              | 23.374 | 264  | 4092     | 0.400 | ng    | 0.00      |
| System Monitoring Compounds   |        |      |          |       |       |           |
| 4) 2-Fluorophenol             | 5.184  | 112  | 2623     | 0.385 | ng    | 0.00      |
| 5) Phenol-d6                  | 6.766  | 99   | 3226     | 0.390 | ng    | 0.00      |
| 8) Nitrobenzene-d5            | 8.739  | 82   | 3018     | 0.398 | ng    | 0.00      |
| 11) 2-Methylnaphthalene-d10   | 11.970 | 152  | 4011     | 0.401 | ng    | 0.00      |
| 14) 2,4,6-Tribromophenol      | 15.730 | 330  | 528      | 0.342 | ng    | -0.01     |
| 15) 2-Fluorobiphenyl          | 12.858 | 172  | 6521     | 0.399 | ng    | 0.00      |
| 27) Fluoranthene-d10          | 19.026 | 212  | 6371     | 0.365 | ng    | 0.00      |
| 31) Terphenyl-d14             | 19.630 | 244  | 4046     | 0.386 | ng    | 0.00      |
| Target Compounds              |        |      |          |       |       |           |
| 2) 1,4-Dioxane                | 3.126  | 88   | 1399     | 0.381 | ng    | Qvalue 97 |
| 3) n-Nitrosodimethylamine     | 3.437  | 42   | 2765     | 0.375 | ng    | 95        |
| 6) bis(2-Chloroethyl)ether    | 7.026  | 93   | 3223     | 0.409 | ng    | 97        |
| 9) Naphthalene                | 10.415 | 128  | 8076     | 0.389 | ng    | 98        |
| 10) Hexachlorobutadiene       | 10.714 | 225  | 1769     | 0.391 | ng    | # 100     |
| 12) 2-Methylnaphthalene       | 12.041 | 142  | 4961     | 0.373 | ng    | 96        |
| 16) Acenaphthylene            | 13.956 | 152  | 6807     | 0.362 | ng    | 99        |
| 17) Acenaphthene              | 14.299 | 154  | 4451     | 0.365 | ng    | 98        |
| 18) Fluorene                  | 15.293 | 166  | 5636     | 0.351 | ng    | 99        |
| 20) 4,6-Dinitro-2-methylph... | 15.378 | 198  | 485      | 0.515 | ng    | # 80      |
| 21) 4-Bromophenyl-phenylether | 16.189 | 248  | 1611     | 0.358 | ng    | 93        |
| 22) Hexachlorobenzene         | 16.301 | 284  | 1849     | 0.381 | ng    | 99        |
| 23) Atrazine                  | 16.462 | 200  | 1245     | 0.335 | ng    | 95        |
| 24) Pentachlorophenol         | 16.649 | 266  | 823      | 0.498 | ng    | 96        |
| 25) Phenanthrene              | 17.021 | 178  | 8135     | 0.366 | ng    | 100       |
| 26) Anthracene                | 17.120 | 178  | 6966     | 0.343 | ng    | 98        |
| 28) Fluoranthene              | 19.054 | 202  | 8355     | 0.340 | ng    | 99        |
| 30) Pyrene                    | 19.416 | 202  | 8281     | 0.381 | ng    | 99        |
| 32) Benzo(a)anthracene        | 21.171 | 228  | 5983     | 0.371 | ng    | 100       |
| 33) Chrysene                  | 21.215 | 228  | 6546     | 0.365 | ng    | 98        |
| 34) Bis(2-ethylhexyl)phtha... | 21.108 | 149  | 3537     | 0.348 | ng    | 99        |
| 36) Indeno(1,2,3-cd)pyrene    | 25.573 | 276  | 6087     | 0.374 | ng    | 99        |
| 37) Benzo(b)fluoranthene      | 22.719 | 252  | 5916     | 0.358 | ng    | 99        |
| 38) Benzo(k)fluoranthene      | 22.763 | 252  | 6048     | 0.359 | ng    | 98        |
| 39) Benzo(a)pyrene            | 23.281 | 252  | 4995     | 0.361 | ng    | 99        |
| 40) Dibenzo(a,h)anthracene    | 25.587 | 278  | 4662     | 0.371 | ng    | 98        |
| 41) Benzo(g,h,i)perylene      | 26.239 | 276  | 5291     | 0.367 | ng    | 99        |

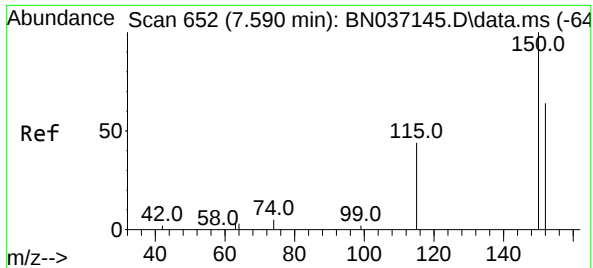
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN060425\  
Data File : BN037166.D  
Acq On : 04 Jun 2025 10:27  
Operator : RC/JU  
Sample : SSTDCCC0.4  
Misc :  
ALS Vial : 2 Sample Multiplier: 1

Instrument :  
BNA\_N  
ClientSampleId :  
SSTDCCC0.4

Quant Time: Jun 04 10:54:51 2025  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\8270-SIM-BN060325.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Wed Jun 04 01:52:03 2025  
Response via : Initial Calibration

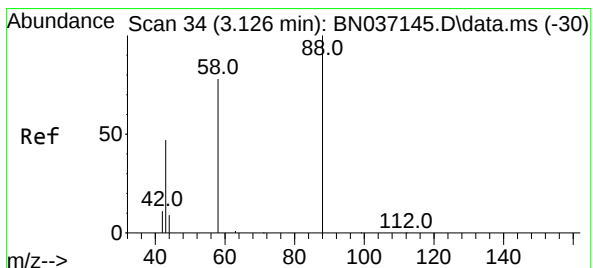
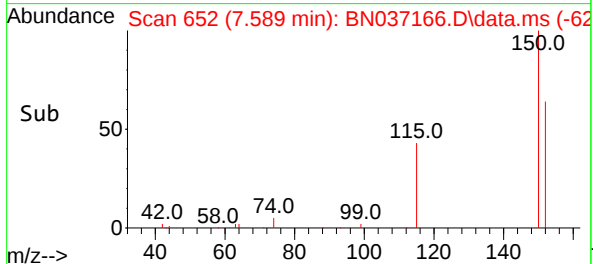
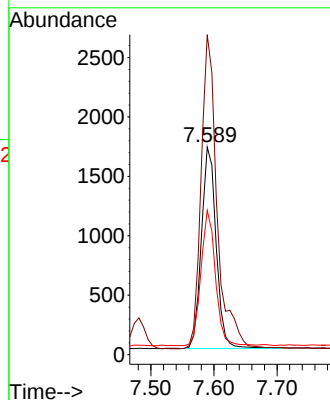
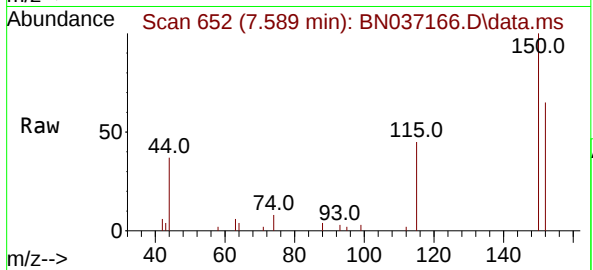




#1  
1,4-Dichlorobenzene-d4  
Concen: 0.400 ng  
RT: 7.589 min Scan# 61  
Delta R.T. -0.001 min  
Lab File: BN037166.D  
Acq: 04 Jun 2025 10:27

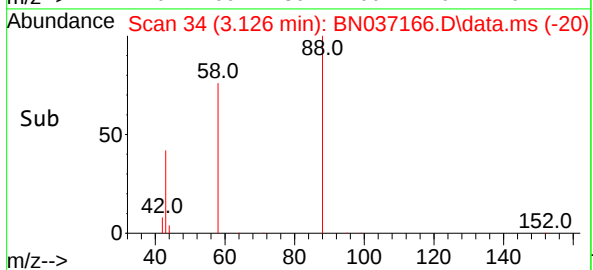
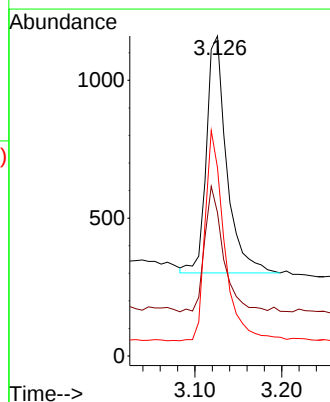
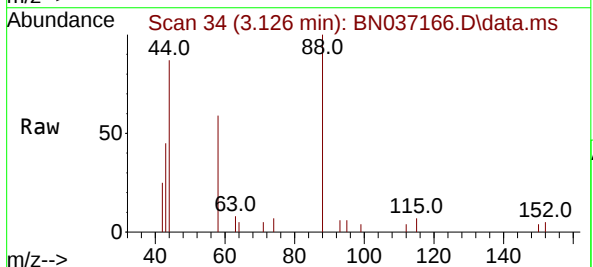
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDCCC0.4

Tgt Ion:152 Resp: 2757  
Ion Ratio Lower Upper  
152 100  
150 154.1 123.2 184.8  
115 69.5 56.6 85.0

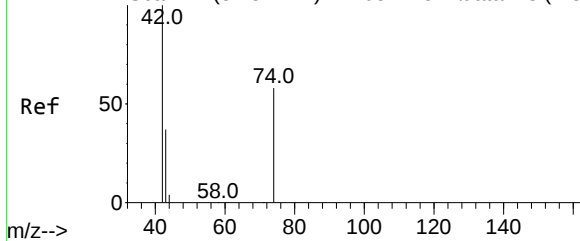


#2  
1,4-Dioxane  
Concen: 0.381 ng  
RT: 3.126 min Scan# 34  
Delta R.T. -0.000 min  
Lab File: BN037166.D  
Acq: 04 Jun 2025 10:27

Tgt Ion: 88 Resp: 1399  
Ion Ratio Lower Upper  
88 100  
43 49.5 43.5 65.3  
58 84.6 67.7 101.5



Abundance Scan 77 (3.437 min): BN037145.D\data.ms (-73)



#3

n-Nitrosodimethylamine

Concen: 0.375 ng

RT: 3.437 min Scan# 77

Delta R.T. -0.000 min

Lab File: BN037166.D

Acq: 04 Jun 2025 10:27

Instrument :

BNA\_N

ClientSampleId :

SSTDCCC0.4

Tgt Ion: 42 Resp: 2765

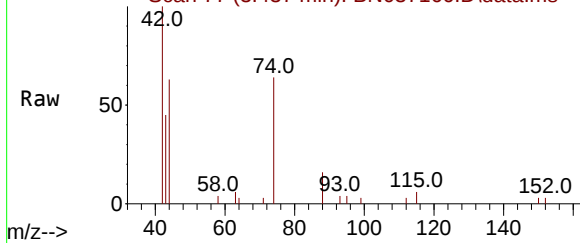
Ion Ratio Lower Upper

42 100

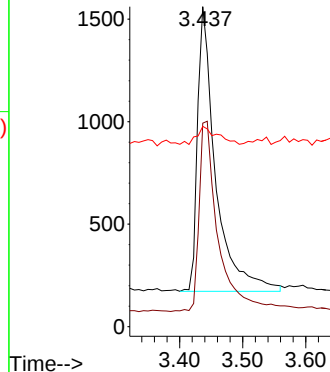
74 70.6 53.0 79.4

44 7.8 5.9 8.9

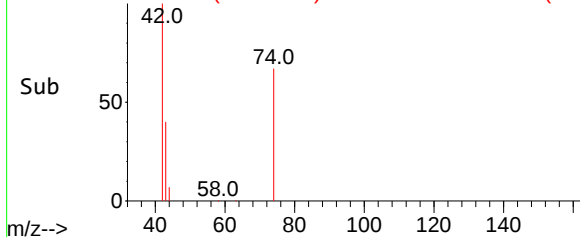
Abundance Scan 77 (3.437 min): BN037166.D\data.ms



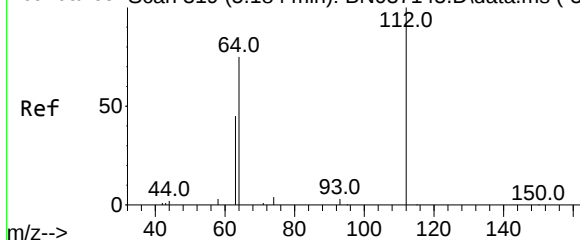
Abundance



Abundance Scan 77 (3.437 min): BN037166.D\data.ms (-56)



Abundance Scan 319 (5.184 min): BN037145.D\data.ms (-31)



#4

2-Fluorophenol

Concen: 0.385 ng

RT: 5.184 min Scan# 319

Delta R.T. -0.000 min

Lab File: BN037166.D

Acq: 04 Jun 2025 10:27

Tgt Ion: 112 Resp: 2623

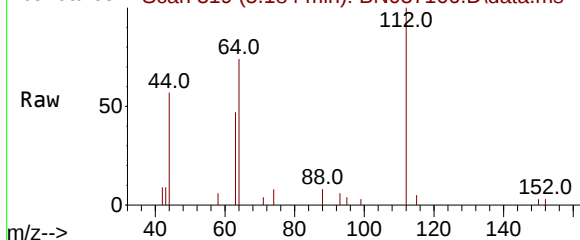
Ion Ratio Lower Upper

112 100

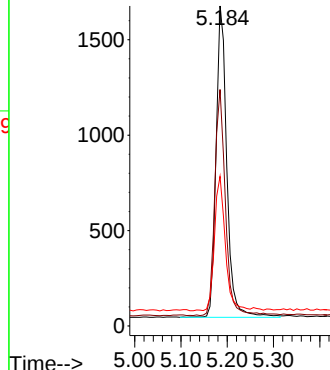
64 72.6 56.3 84.5

63 43.5 36.2 54.4

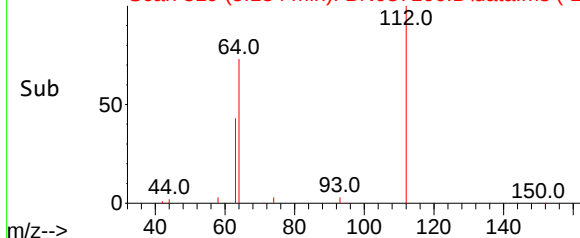
Abundance Scan 319 (5.184 min): BN037166.D\data.ms

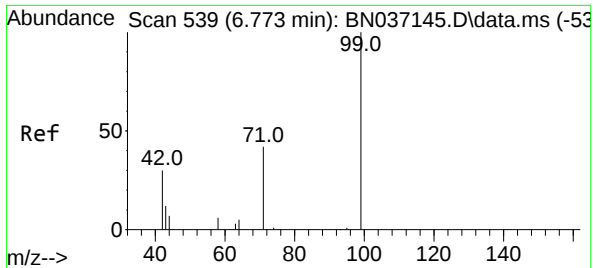


Abundance



Abundance Scan 319 (5.184 min): BN037166.D\data.ms (-29)

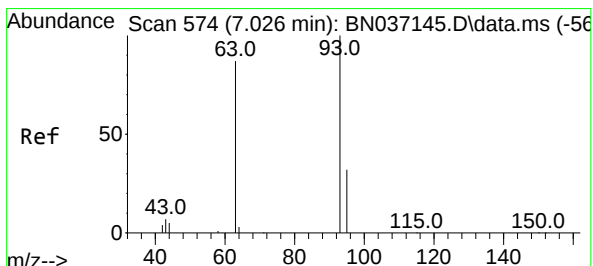
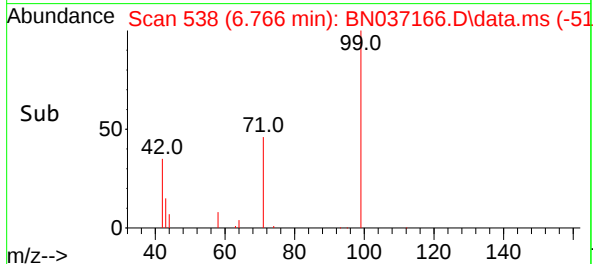
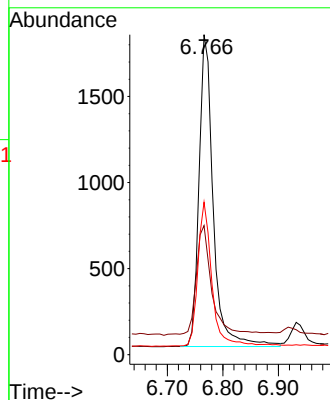
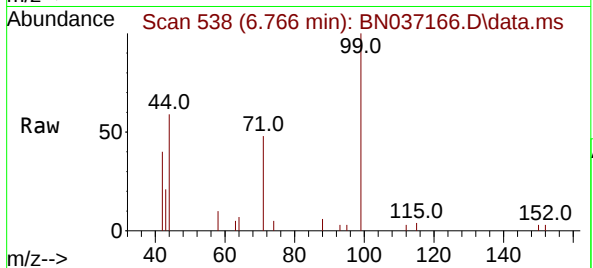




#5  
Phenol-d6  
Concen: 0.390 ng  
RT: 6.766 min Scan# 51  
Delta R.T. -0.007 min  
Lab File: BN037166.D  
Acq: 04 Jun 2025 10:27

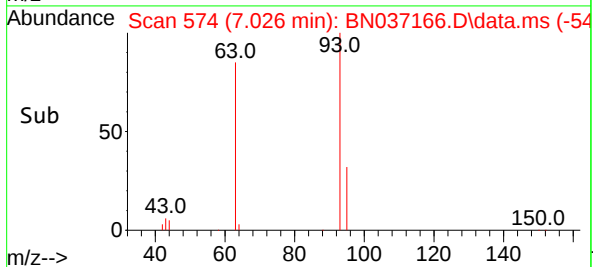
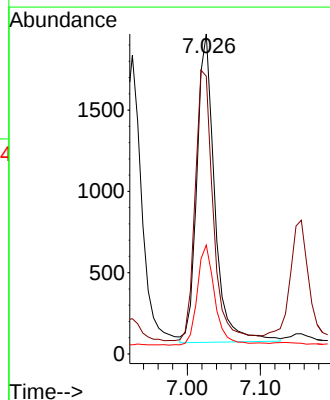
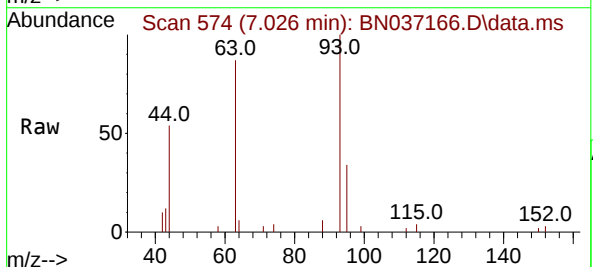
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDCCC0.4

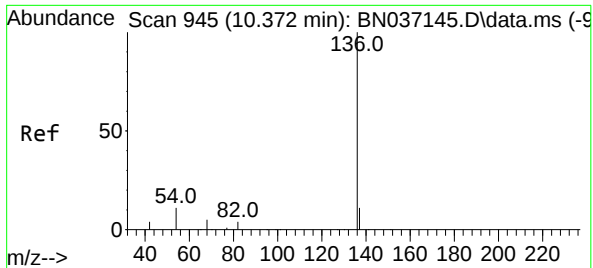
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 99    | Resp: | 3226  |
| Ion      | Ratio | Lower | Upper |
| 99       | 100   |       |       |
| 42       | 39.4  | 31.3  | 46.9  |
| 71       | 45.6  | 38.2  | 57.2  |



#6  
bis(2-Chloroethyl)ether  
Concen: 0.409 ng  
RT: 7.026 min Scan# 574  
Delta R.T. -0.000 min  
Lab File: BN037166.D  
Acq: 04 Jun 2025 10:27

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 93    | Resp: | 3223  |
| Ion      | Ratio | Lower | Upper |
| 93       | 100   |       |       |
| 63       | 88.4  | 68.6  | 103.0 |
| 95       | 31.9  | 24.3  | 36.5  |

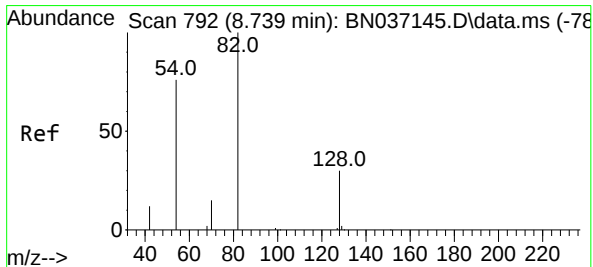
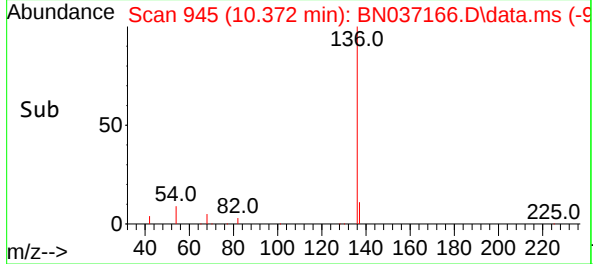
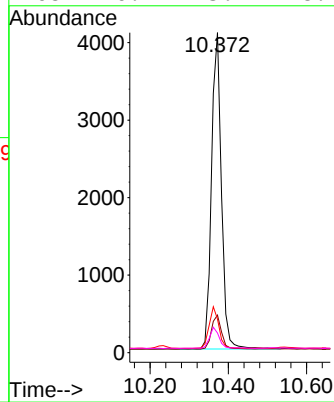
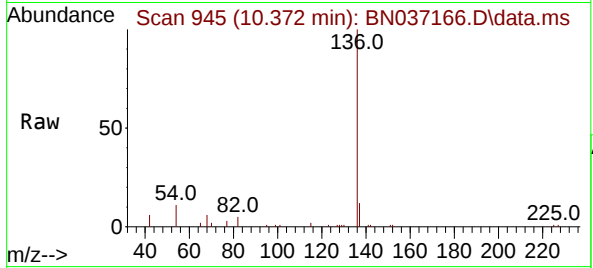




#7  
Naphthalene-d8  
Concen: 0.400 ng  
RT: 10.372 min Scan# 945  
Delta R.T. -0.000 min  
Lab File: BN037166.D  
Acq: 04 Jun 2025 10:27

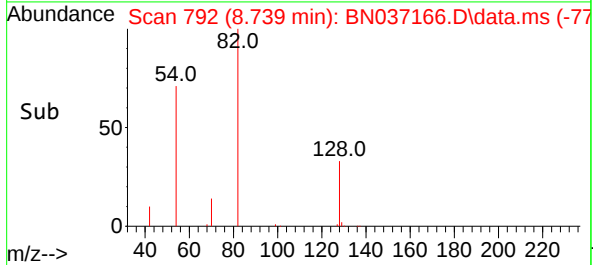
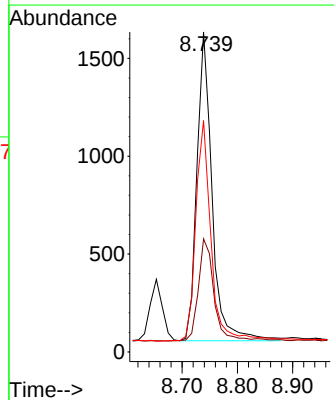
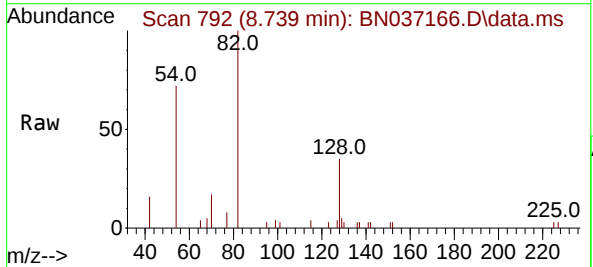
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDCCC0.4

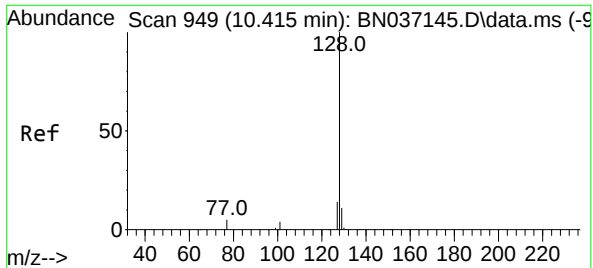
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 136   | Resp: | 7191  |
| Ion      | Ratio | Lower | Upper |
| 136      | 100   |       |       |
| 137      | 11.7  | 9.7   | 14.5  |
| 54       | 10.5  | 9.7   | 14.5  |
| 68       | 6.2   | 5.4   | 8.2   |



#8  
Nitrobenzene-d5  
Concen: 0.398 ng  
RT: 8.739 min Scan# 792  
Delta R.T. -0.000 min  
Lab File: BN037166.D  
Acq: 04 Jun 2025 10:27

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 82    | Resp: | 3018  |
| Ion      | Ratio | Lower | Upper |
| 82       | 100   |       |       |
| 128      | 35.4  | 26.9  | 40.3  |
| 54       | 72.3  | 61.4  | 92.2  |

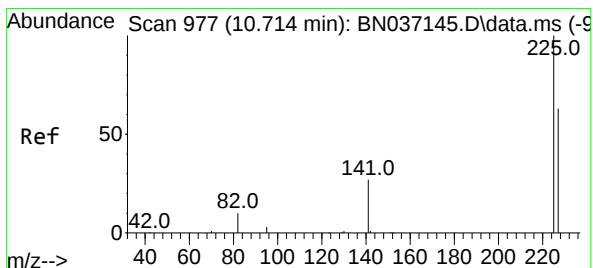
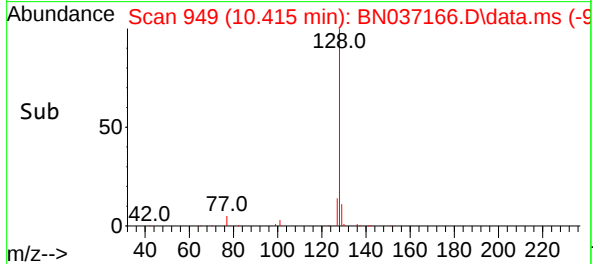
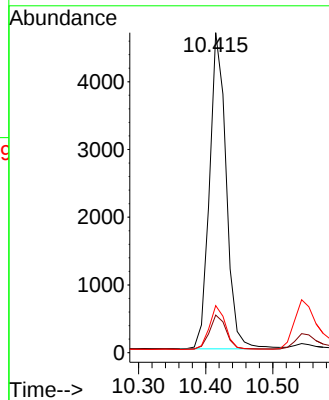
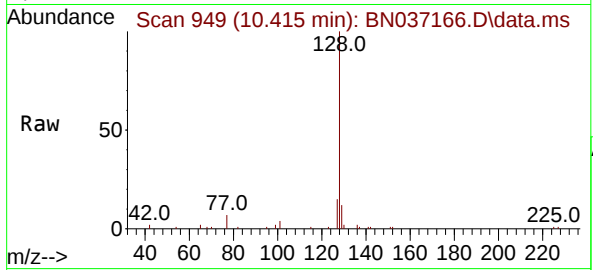




#9  
Naphthalene  
Concen: 0.389 ng  
RT: 10.415 min Scan# 949  
Delta R.T. -0.000 min  
Lab File: BN037166.D  
Acq: 04 Jun 2025 10:27

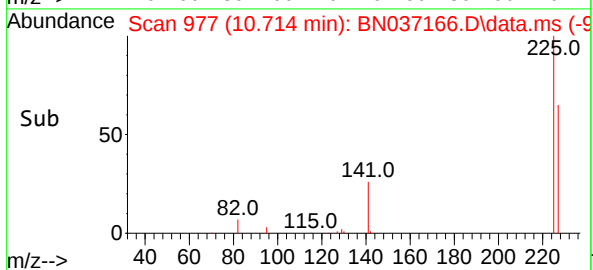
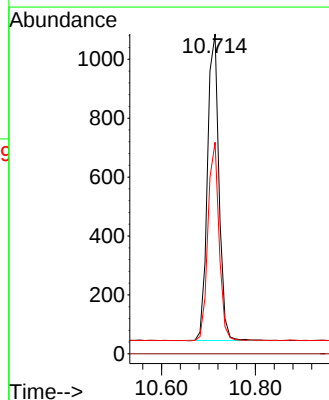
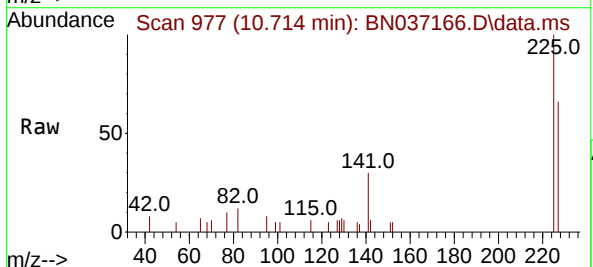
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDCCC0.4

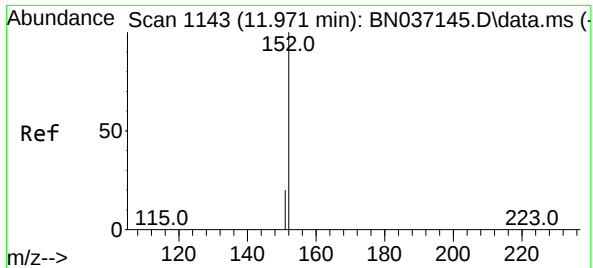
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 128   | Resp: | 8076  |
| Ion      | Ratio | Lower | Upper |
| 128      | 100   |       |       |
| 129      | 11.7  | 9.8   | 14.8  |
| 127      | 14.7  | 12.3  | 18.5  |



#10  
Hexachlorobutadiene  
Concen: 0.391 ng  
RT: 10.714 min Scan# 977  
Delta R.T. -0.000 min  
Lab File: BN037166.D  
Acq: 04 Jun 2025 10:27

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 225   | Resp: | 1769  |
| Ion      | Ratio | Lower | Upper |
| 225      | 100   |       |       |
| 223      | 0.0   | 0.0   | 0.0   |
| 227      | 63.2  | 50.3  | 75.5  |

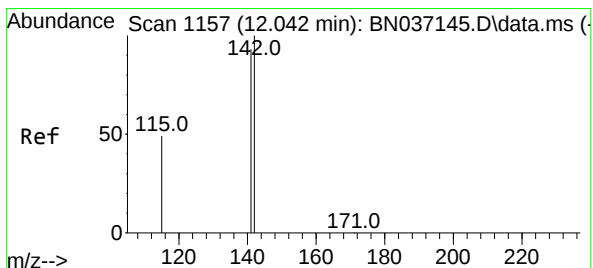
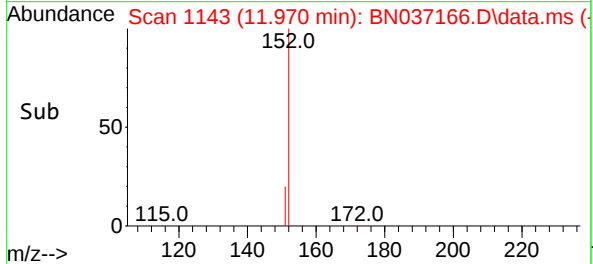
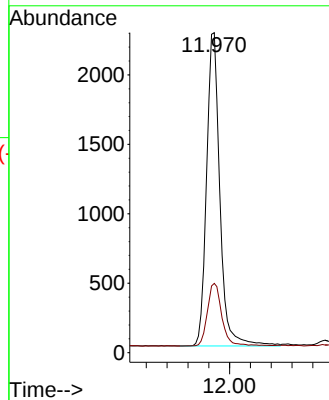
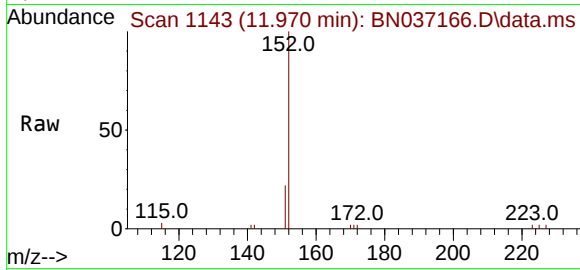




#11  
2-Methylnaphthalene-d10  
Concen: 0.401 ng  
RT: 11.970 min Scan# 1143  
Delta R.T. -0.000 min  
Lab File: BN037166.D  
Acq: 04 Jun 2025 10:27

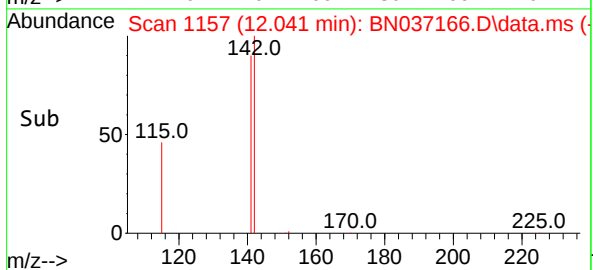
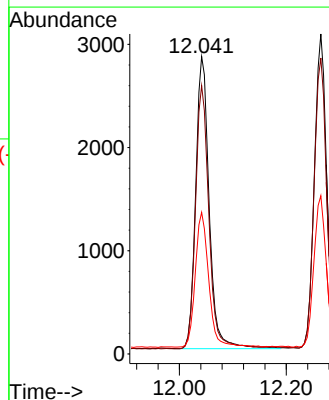
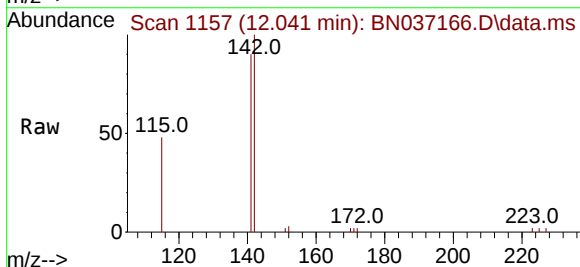
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDCCC0.4

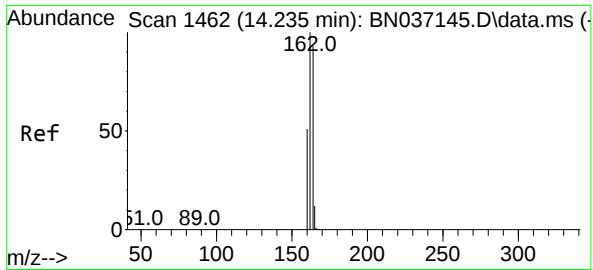
Tgt Ion:152 Resp: 4011  
Ion Ratio Lower Upper  
152 100  
151 21.5 17.1 25.7



#12  
2-Methylnaphthalene  
Concen: 0.373 ng  
RT: 12.041 min Scan# 1157  
Delta R.T. -0.000 min  
Lab File: BN037166.D  
Acq: 04 Jun 2025 10:27

Tgt Ion:142 Resp: 4961  
Ion Ratio Lower Upper  
142 100  
141 90.2 74.6 111.8  
115 47.6 41.0 61.4

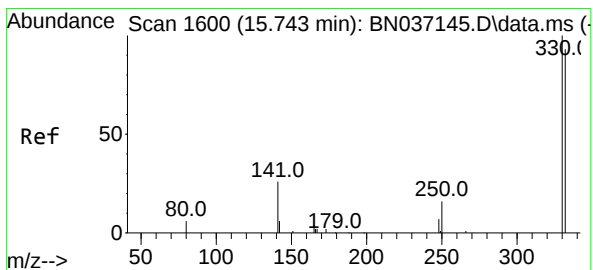
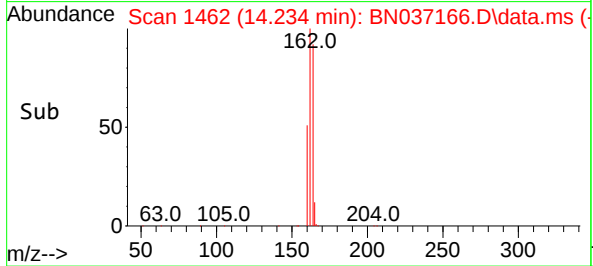
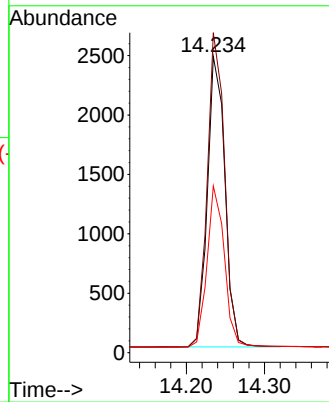
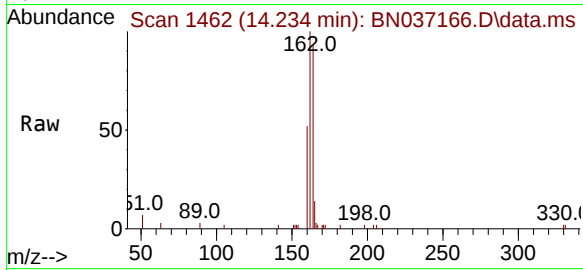




#13  
Acenaphthene-d10  
Concen: 0.400 ng  
RT: 14.234 min Scan# 1462  
Delta R.T. -0.000 min  
Lab File: BN037166.D  
Acq: 04 Jun 2025 10:27

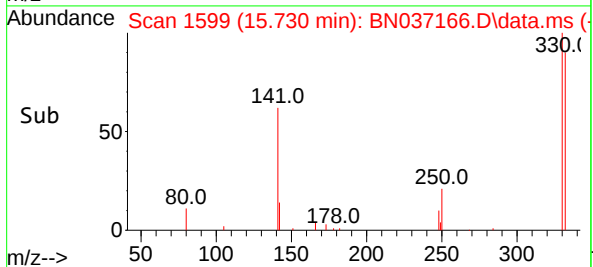
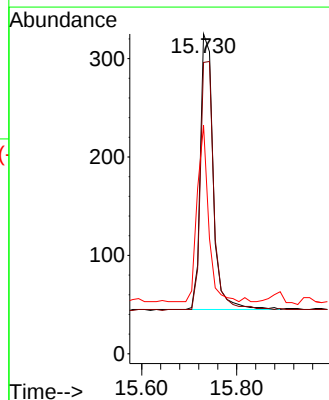
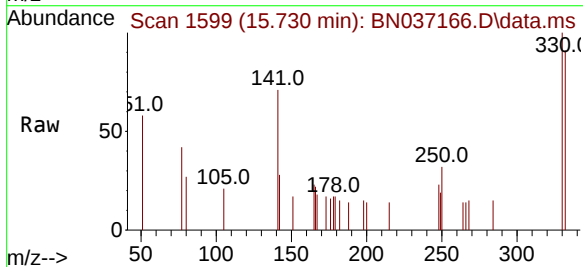
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDCCC0.4

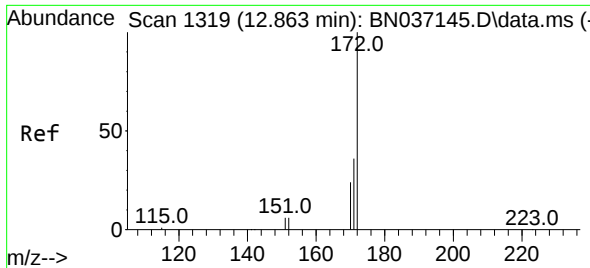
Tgt Ion:164 Resp: 3834  
Ion Ratio Lower Upper  
164 100  
162 108.1 85.5 128.3  
160 56.3 44.6 67.0



#14  
2,4,6-Tribromophenol  
Concen: 0.342 ng  
RT: 15.730 min Scan# 1599  
Delta R.T. -0.013 min  
Lab File: BN037166.D  
Acq: 04 Jun 2025 10:27

Tgt Ion:330 Resp: 528  
Ion Ratio Lower Upper  
330 100  
332 93.2 77.1 115.7  
141 56.1 46.4 69.6

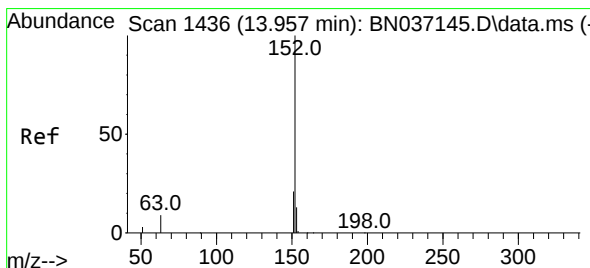
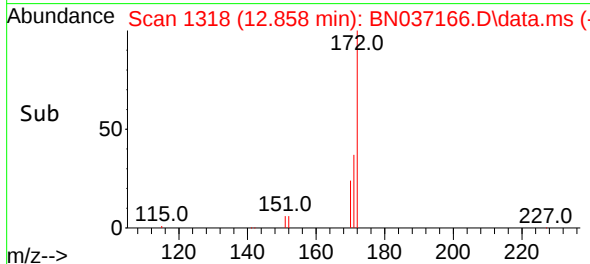
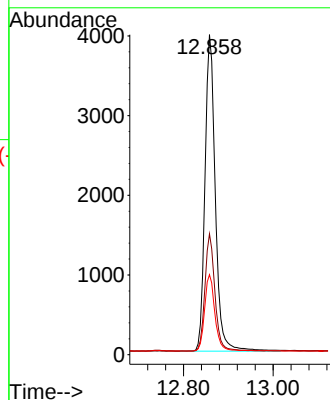
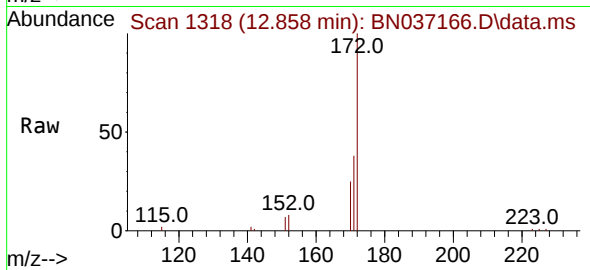




#15  
2-Fluorobiphenyl  
Concen: 0.399 ng  
RT: 12.858 min Scan# 1318  
Delta R.T. -0.005 min  
Lab File: BN037166.D  
Acq: 04 Jun 2025 10:27

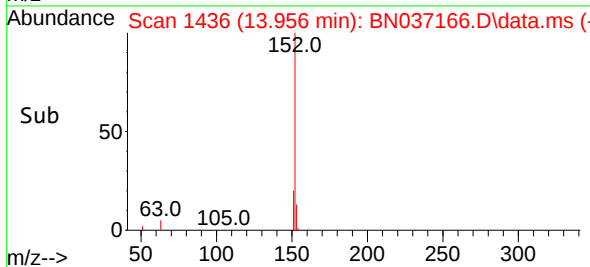
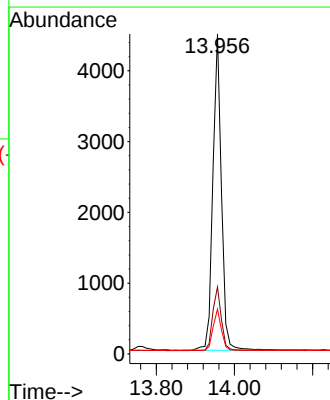
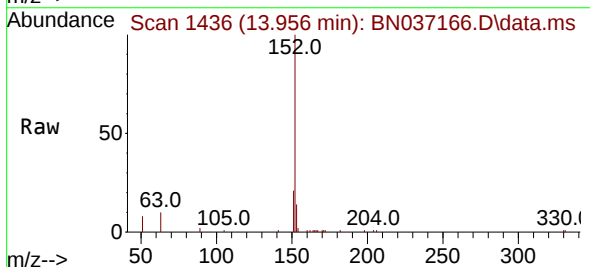
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDCCC0.4

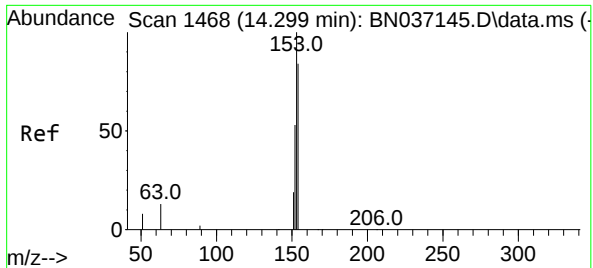
|             |       |           |
|-------------|-------|-----------|
| Tgt Ion:172 | Resp: | 6521      |
| Ion Ratio   | Lower | Upper     |
| 172         | 100   |           |
| 171         | 37.8  | 29.6 44.4 |
| 170         | 25.0  | 20.3 30.5 |



#16  
Acenaphthylene  
Concen: 0.362 ng  
RT: 13.956 min Scan# 1436  
Delta R.T. -0.000 min  
Lab File: BN037166.D  
Acq: 04 Jun 2025 10:27

|             |       |           |
|-------------|-------|-----------|
| Tgt Ion:152 | Resp: | 6807      |
| Ion Ratio   | Lower | Upper     |
| 152         | 100   |           |
| 151         | 20.1  | 16.3 24.5 |
| 153         | 12.9  | 10.6 15.8 |

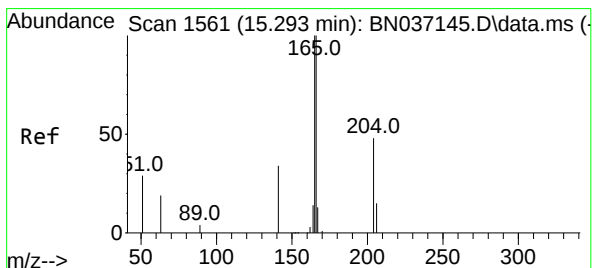
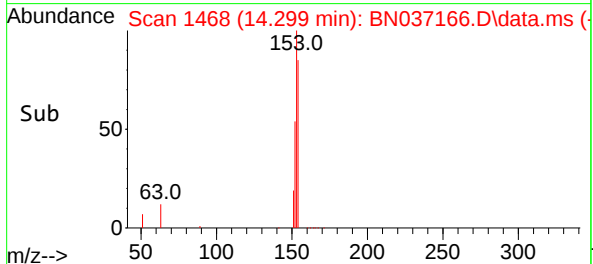
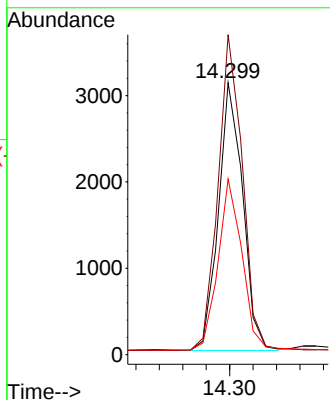
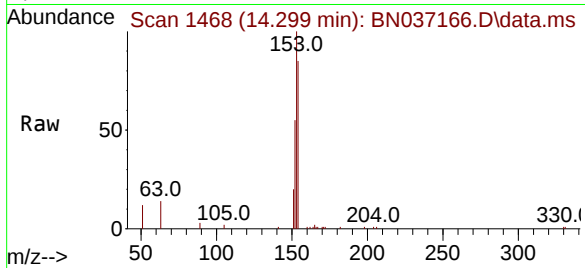




#17  
Acenaphthene  
Concen: 0.365 ng  
RT: 14.299 min Scan# 1468  
Delta R.T. -0.000 min  
Lab File: BN037166.D  
Acq: 04 Jun 2025 10:27

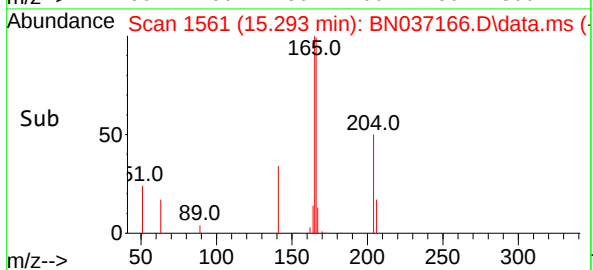
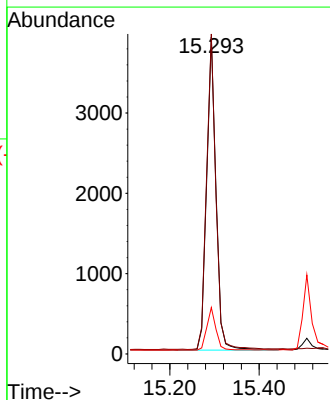
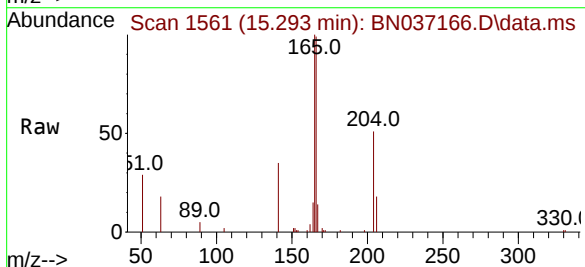
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDCCC0.4

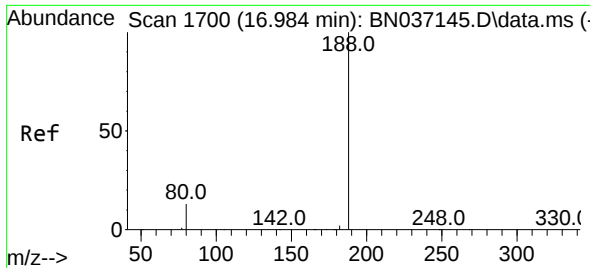
Tgt Ion:154 Resp: 4451  
Ion Ratio Lower Upper  
154 100  
153 119.6 93.8 140.8  
152 63.7 50.5 75.7



#18  
Fluorene  
Concen: 0.351 ng  
RT: 15.293 min Scan# 1561  
Delta R.T. -0.000 min  
Lab File: BN037166.D  
Acq: 04 Jun 2025 10:27

Tgt Ion:166 Resp: 5636  
Ion Ratio Lower Upper  
166 100  
165 100.4 81.1 121.7  
167 13.4 10.8 16.2

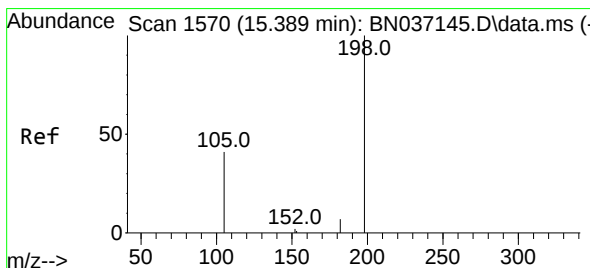
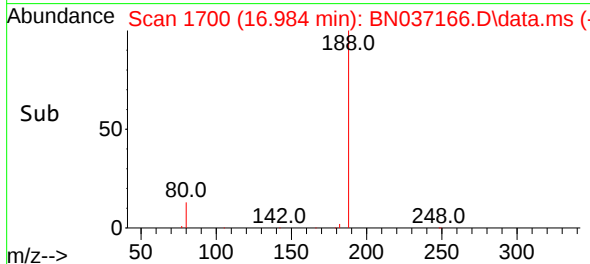
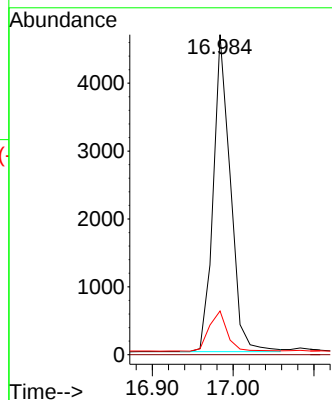
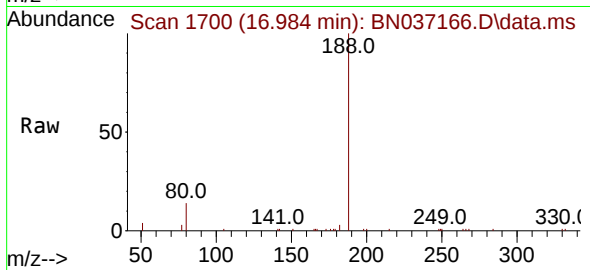




#19  
Phenanthrene-d10  
Concen: 0.400 ng  
RT: 16.984 min Scan# 11  
Delta R.T. -0.000 min  
Lab File: BN037166.D  
Acq: 04 Jun 2025 10:27

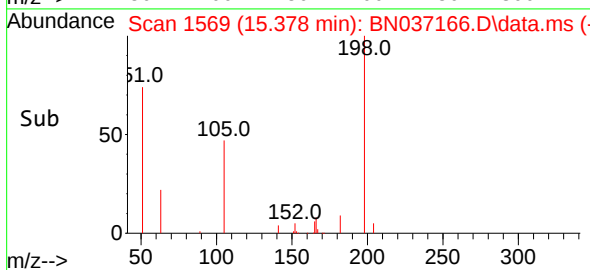
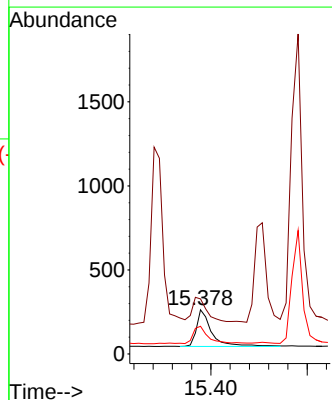
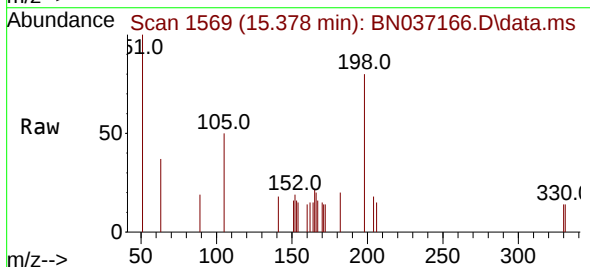
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDCCC0.4

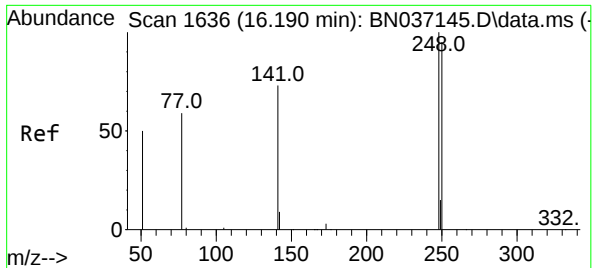
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 188     | 100   |       |       |
| 94      | 0.0   | 0.0   | 0.0   |
| 80      | 13.7  | 11.3  | 16.9  |



#20  
4,6-Dinitro-2-methylphenol  
Concen: 0.515 ng  
RT: 15.378 min Scan# 1569  
Delta R.T. -0.011 min  
Lab File: BN037166.D  
Acq: 04 Jun 2025 10:27

| Tgt Ion | Ratio | Lower | Upper  |
|---------|-------|-------|--------|
| 198     | 100   |       |        |
| 51      | 124.7 | 125.2 | 187.8# |
| 105     | 62.7  | 57.1  | 85.7   |

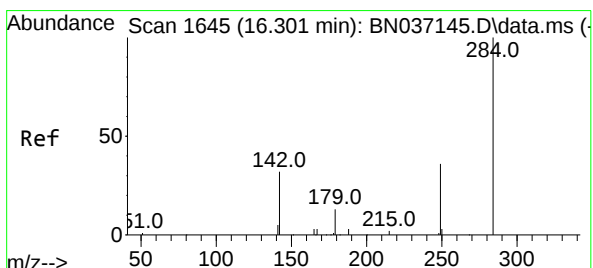
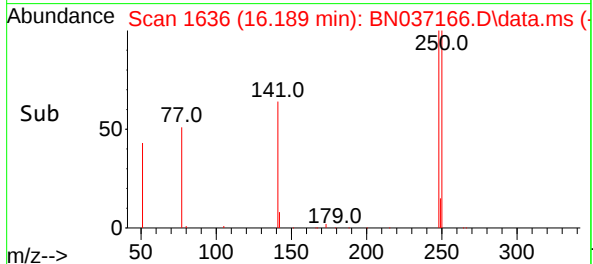
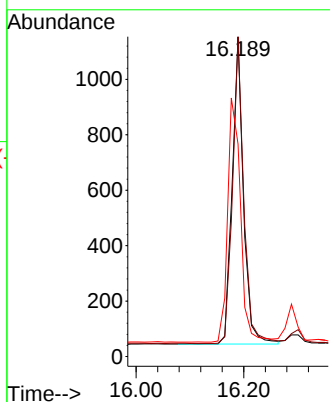
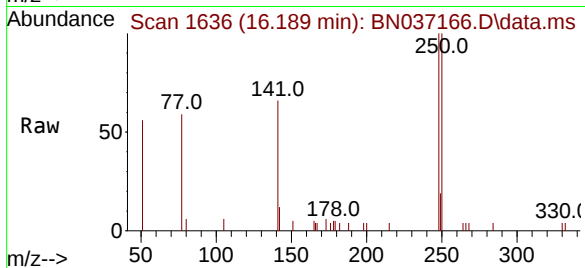




#21  
4-Bromophenyl-phenylether  
Concen: 0.358 ng  
RT: 16.189 min Scan# 1636  
Delta R.T. -0.000 min  
Lab File: BN037166.D  
Acq: 04 Jun 2025 10:27

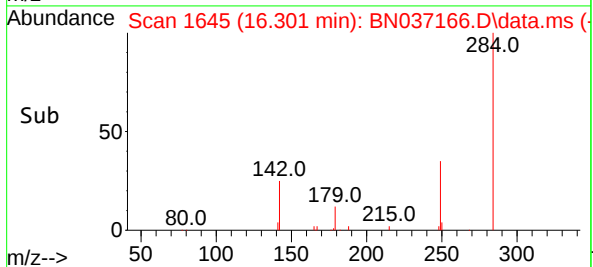
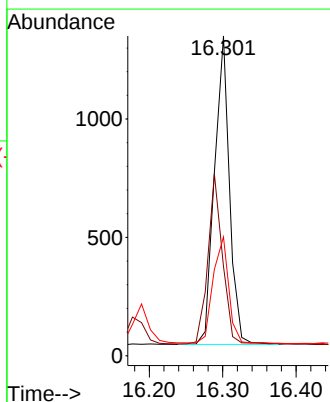
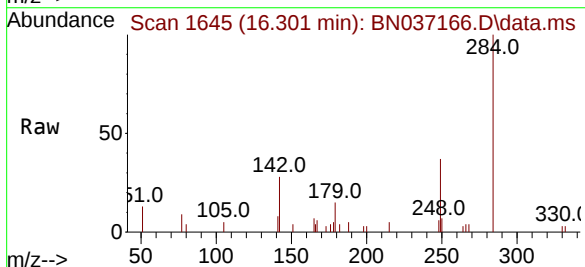
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDCCC0.4

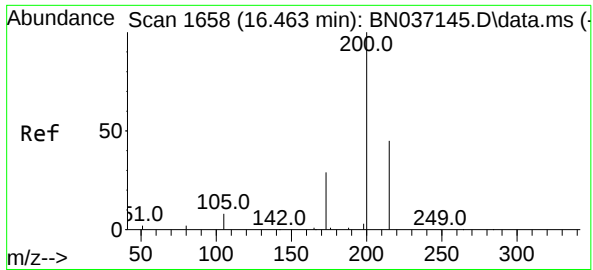
Tgt Ion:248 Resp: 1611  
Ion Ratio Lower Upper  
248 100  
250 100.1 76.1 114.1  
141 66.5 60.1 90.1



#22  
Hexachlorobenzene  
Concen: 0.381 ng  
RT: 16.301 min Scan# 1645  
Delta R.T. -0.000 min  
Lab File: BN037166.D  
Acq: 04 Jun 2025 10:27

Tgt Ion:284 Resp: 1849  
Ion Ratio Lower Upper  
284 100  
142 54.4 44.0 66.0  
249 36.6 29.7 44.5

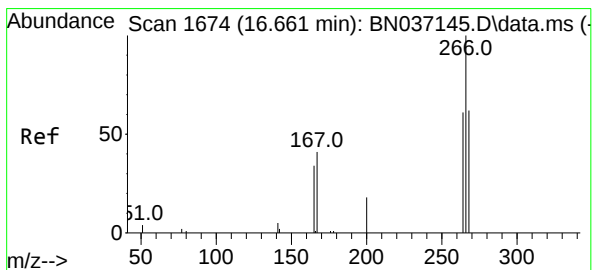
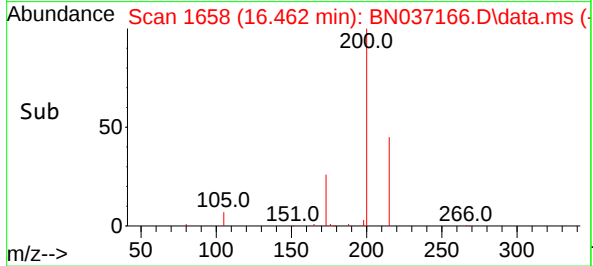
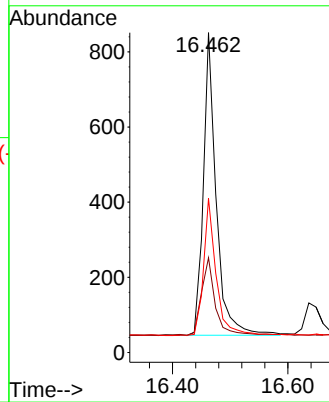
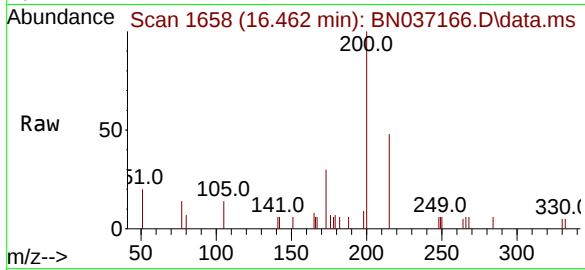




#23  
Atrazine  
Concen: 0.335 ng  
RT: 16.462 min Scan# 1658  
Delta R.T. -0.000 min  
Lab File: BN037166.D  
Acq: 04 Jun 2025 10:27

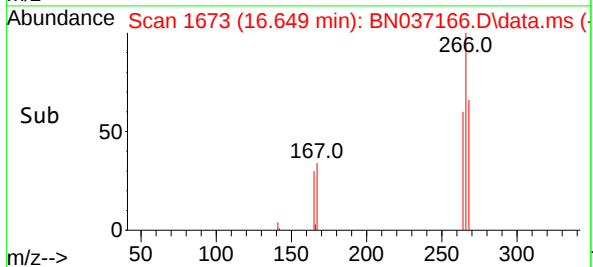
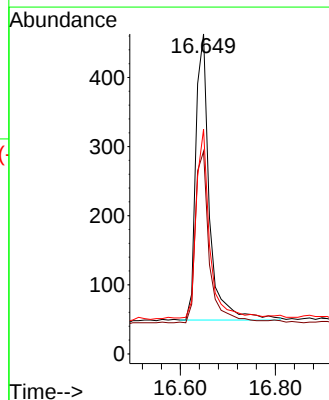
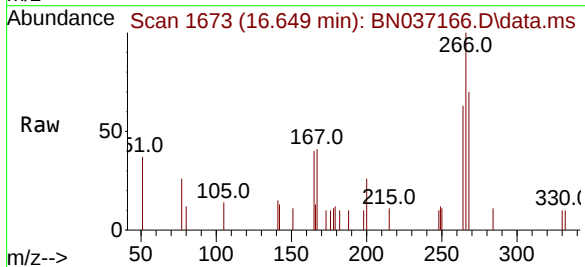
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDCCC0.4

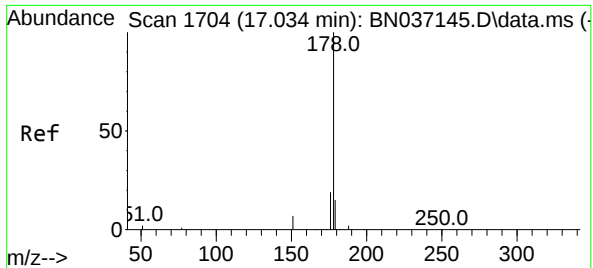
|           |       |       |      |
|-----------|-------|-------|------|
| Tgt Ion:  | 200   | Resp: | 1245 |
| Ion Ratio | Lower | Upper |      |
| 200       | 100   |       |      |
| 173       | 29.6  | 28.1  | 42.1 |
| 215       | 48.2  | 39.3  | 58.9 |



#24  
Pentachlorophenol  
Concen: 0.498 ng  
RT: 16.649 min Scan# 1673  
Delta R.T. -0.012 min  
Lab File: BN037166.D  
Acq: 04 Jun 2025 10:27

|           |       |       |      |
|-----------|-------|-------|------|
| Tgt Ion:  | 266   | Resp: | 823  |
| Ion Ratio | Lower | Upper |      |
| 266       | 100   |       |      |
| 264       | 61.4  | 49.3  | 73.9 |
| 268       | 67.4  | 49.0  | 73.4 |

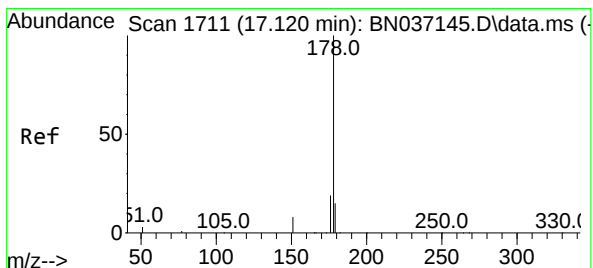
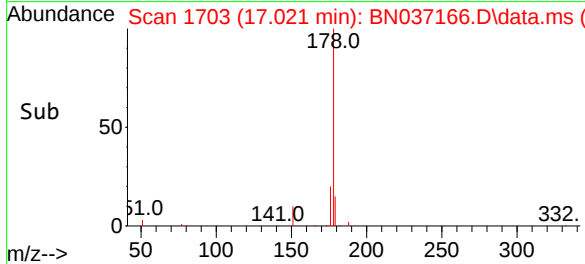
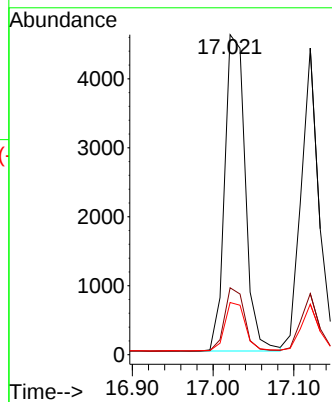
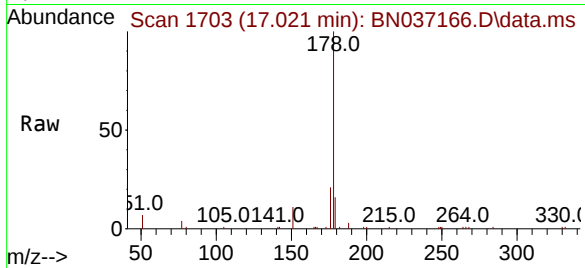




#25  
Phenanthrene  
Concen: 0.366 ng  
RT: 17.021 min Scan# 1703  
Delta R.T. -0.013 min  
Lab File: BN037166.D  
Acq: 04 Jun 2025 10:27

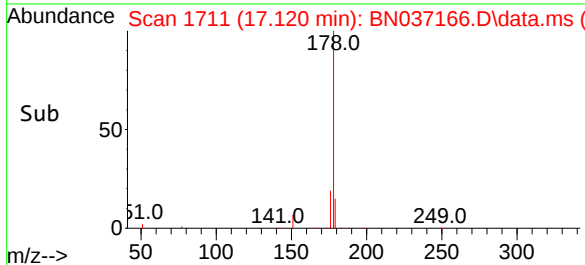
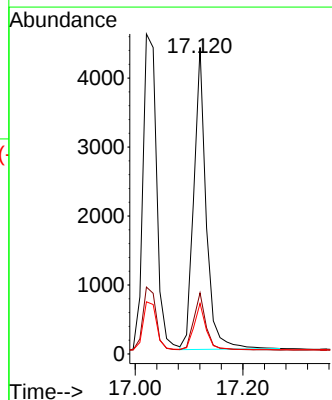
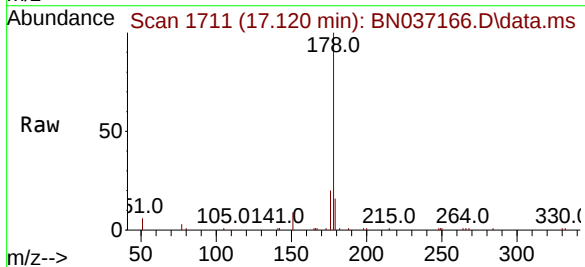
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDCCC0.4

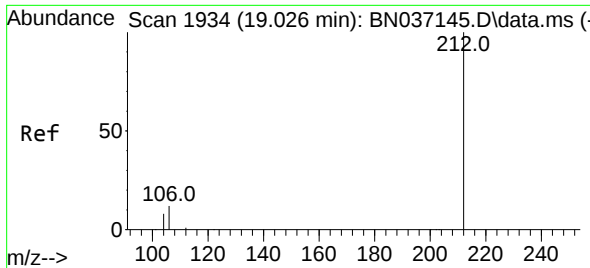
Tgt Ion:178 Resp: 8135  
Ion Ratio Lower Upper  
178 100  
176 19.7 15.7 23.5  
179 15.6 12.3 18.5



#26  
Anthracene  
Concen: 0.343 ng  
RT: 17.120 min Scan# 1711  
Delta R.T. -0.000 min  
Lab File: BN037166.D  
Acq: 04 Jun 2025 10:27

Tgt Ion:178 Resp: 6966  
Ion Ratio Lower Upper  
178 100  
176 19.3 15.2 22.8  
179 15.0 12.9 19.3

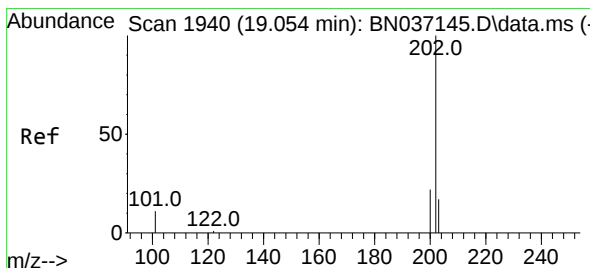
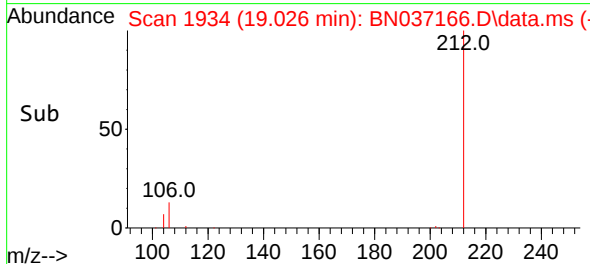
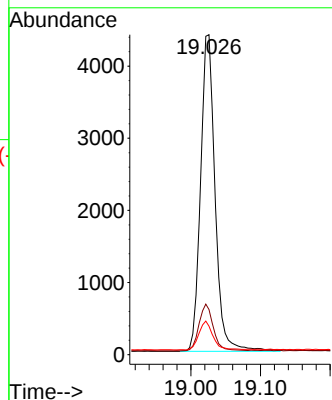
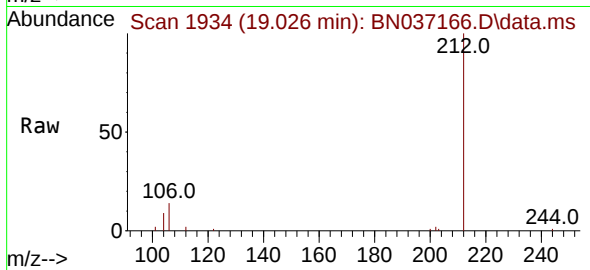




#27  
Fluoranthene-d10  
Concen: 0.365 ng  
RT: 19.026 min Scan# 1934  
Delta R.T. -0.000 min  
Lab File: BN037166.D  
Acq: 04 Jun 2025 10:27

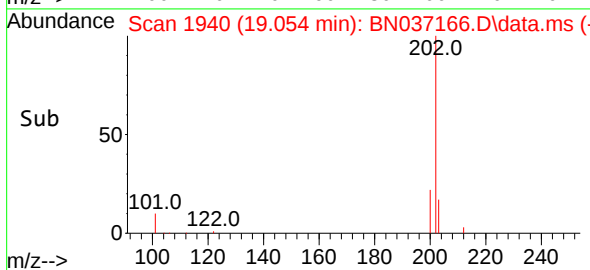
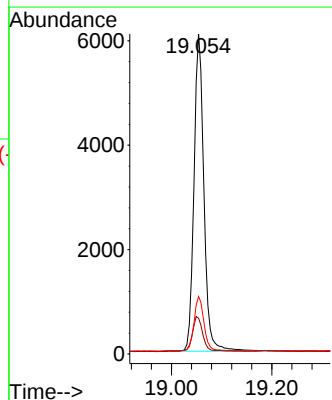
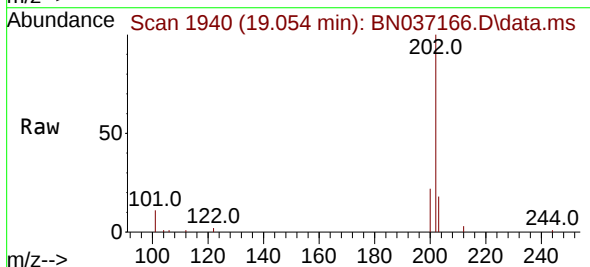
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDCCC0.4

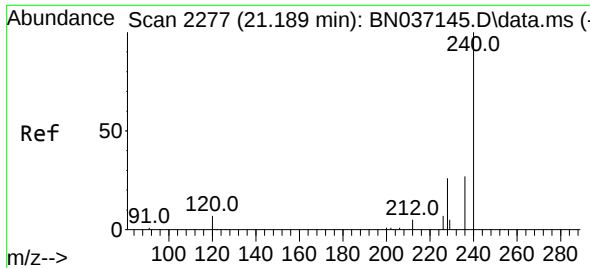
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 212     | 100   |       |       |
| 106     | 14.5  | 10.6  | 15.8  |
| 104     | 8.9   | 6.6   | 9.8   |



#28  
Fluoranthene  
Concen: 0.340 ng  
RT: 19.054 min Scan# 1940  
Delta R.T. -0.000 min  
Lab File: BN037166.D  
Acq: 04 Jun 2025 10:27

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 202     | 100   |       |       |
| 101     | 11.6  | 8.7   | 13.1  |
| 203     | 17.0  | 13.5  | 20.3  |

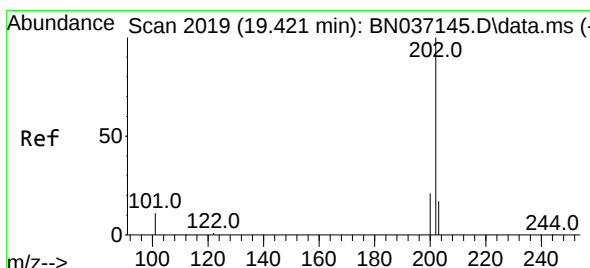
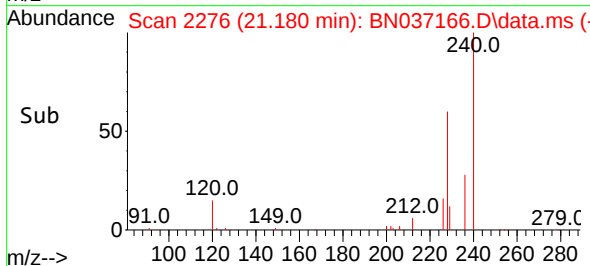
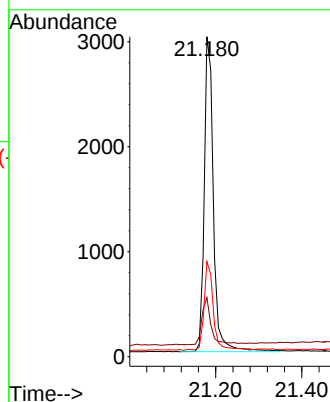
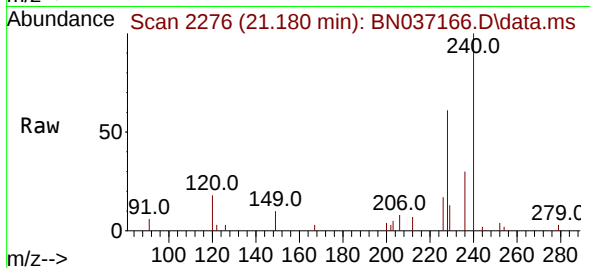




#29  
Chrysene-d12  
Concen: 0.400 ng  
RT: 21.180 min Scan# 211  
Delta R.T. -0.009 min  
Lab File: BN037166.D  
Acq: 04 Jun 2025 10:27

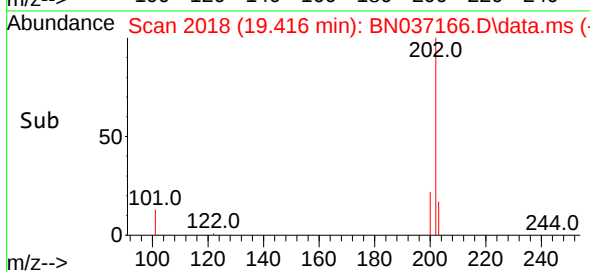
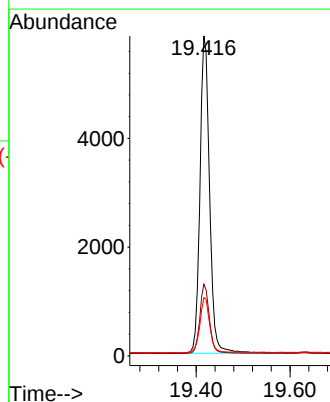
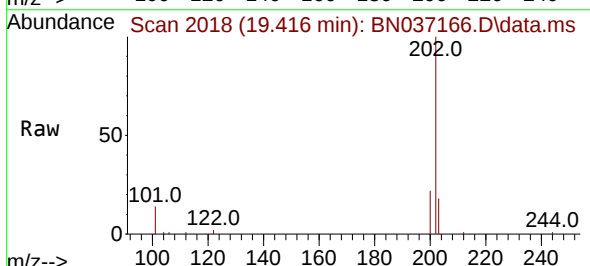
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDCCC0.4

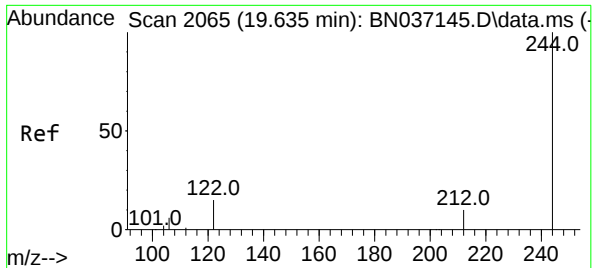
Tgt Ion:240 Resp: 4452  
Ion Ratio Lower Upper  
240 100  
120 18.5 9.0 13.4#  
236 29.7 23.0 34.4



#30  
Pyrene  
Concen: 0.381 ng  
RT: 19.416 min Scan# 2018  
Delta R.T. -0.005 min  
Lab File: BN037166.D  
Acq: 04 Jun 2025 10:27

Tgt Ion:202 Resp: 8281  
Ion Ratio Lower Upper  
202 100  
200 21.5 17.0 25.6  
203 18.2 14.2 21.4

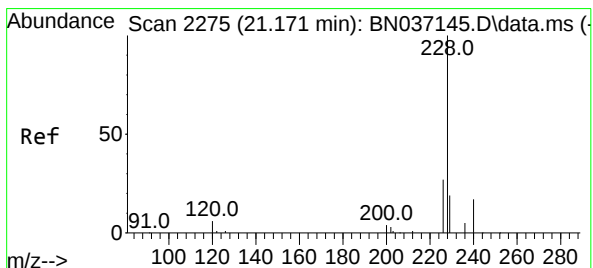
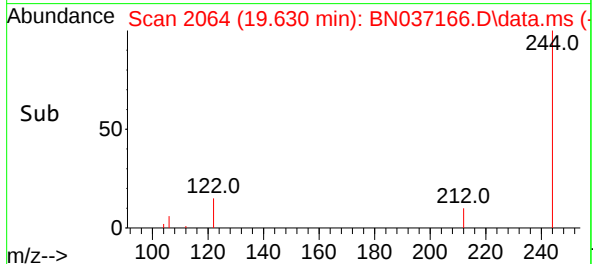
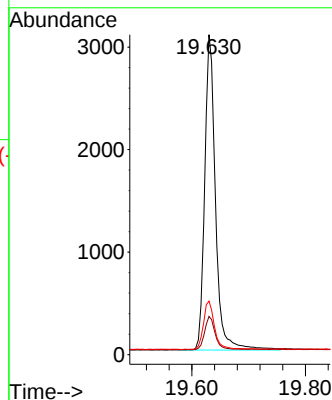
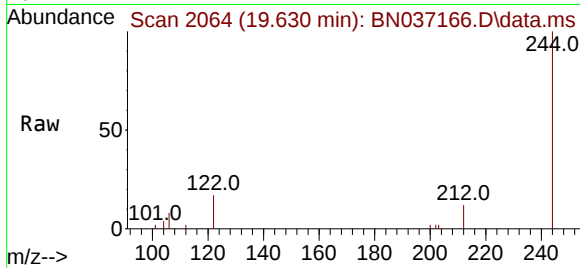




#31  
Terphenyl-d14  
Concen: 0.386 ng  
RT: 19.630 min Scan# 2064  
Delta R.T. -0.005 min  
Lab File: BN037166.D  
Acq: 04 Jun 2025 10:27

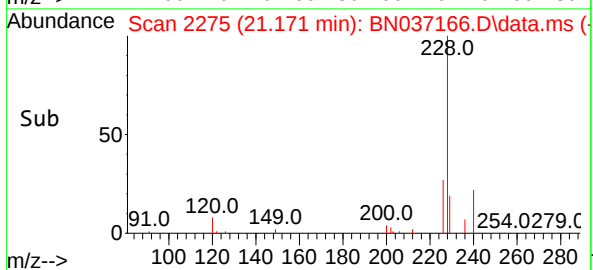
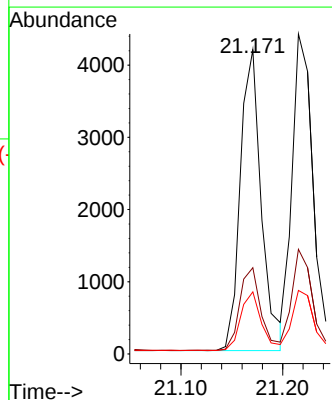
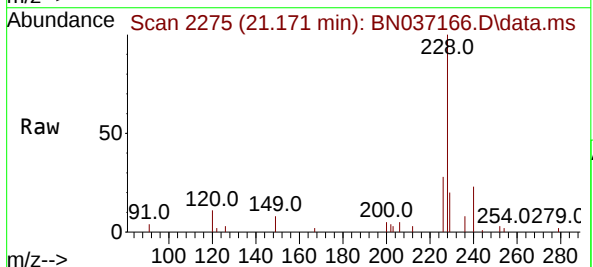
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDCCC0.4

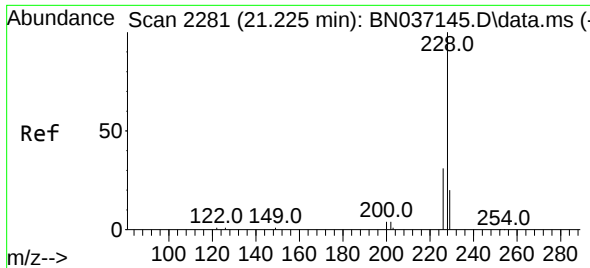
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 244     | 100   |       |       |
| 212     | 11.9  | 10.0  | 15.0  |
| 122     | 16.7  | 13.2  | 19.8  |



#32  
Benzo(a)anthracene  
Concen: 0.371 ng  
RT: 21.171 min Scan# 2275  
Delta R.T. -0.000 min  
Lab File: BN037166.D  
Acq: 04 Jun 2025 10:27

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 228     | 100   |       |       |
| 226     | 28.4  | 22.6  | 33.8  |
| 229     | 20.4  | 16.2  | 24.2  |





#33

Chrysene

Concen: 0.365 ng

RT: 21.215 min Scan# 21

Delta R.T. -0.009 min

Lab File: BN037166.D

Acq: 04 Jun 2025 10:27

Instrument :

BNA\_N

ClientSampleId :

SSTDCCC0.4

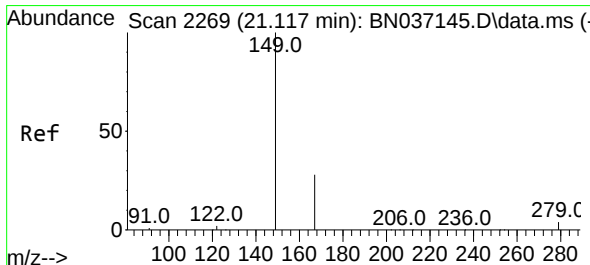
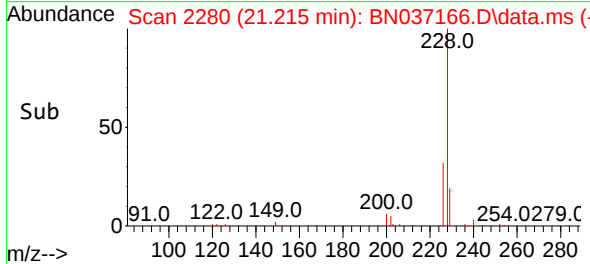
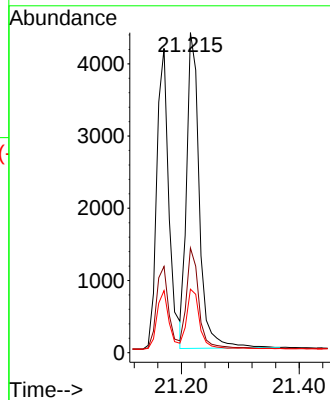
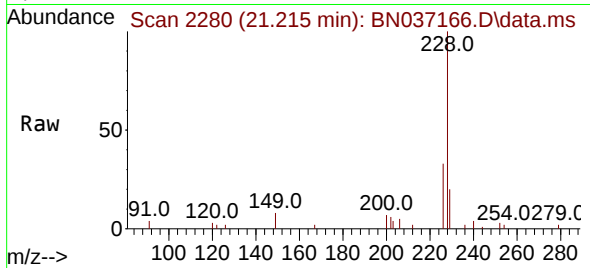
Tgt Ion:228 Resp: 6546

Ion Ratio Lower Upper

228 100

226 32.7 25.2 37.8

229 19.9 16.8 25.2



#34

Bis(2-ethylhexyl)phthalate

Concen: 0.348 ng

RT: 21.108 min Scan# 2268

Delta R.T. -0.009 min

Lab File: BN037166.D

Acq: 04 Jun 2025 10:27

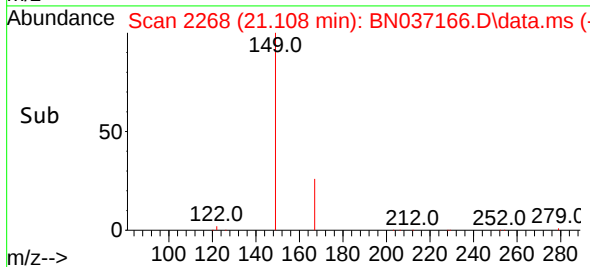
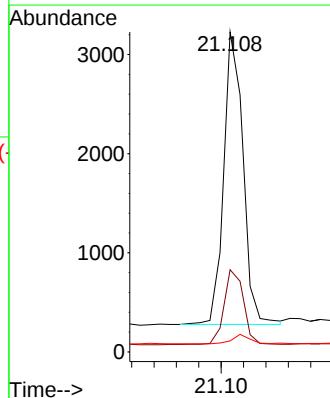
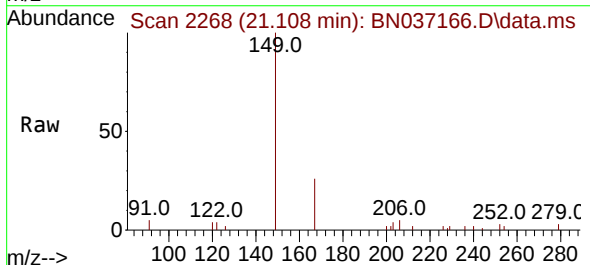
Tgt Ion:149 Resp: 3537

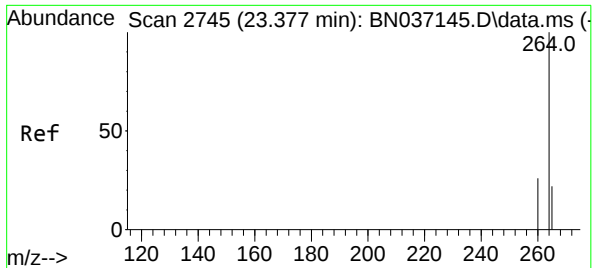
Ion Ratio Lower Upper

149 100

167 25.7 21.0 31.4

279 3.1 2.9 4.3

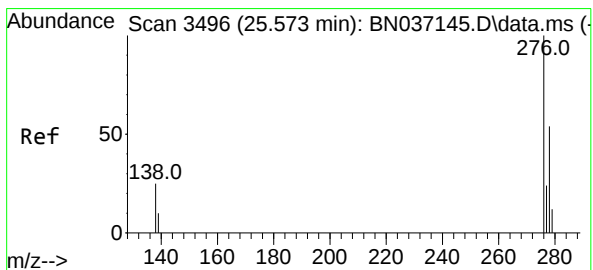
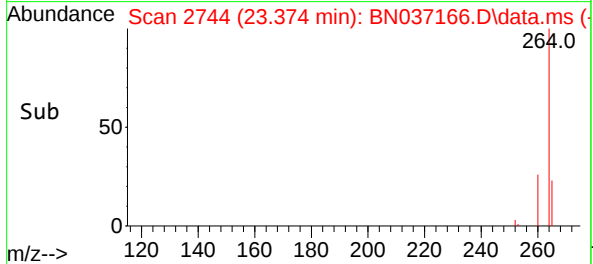
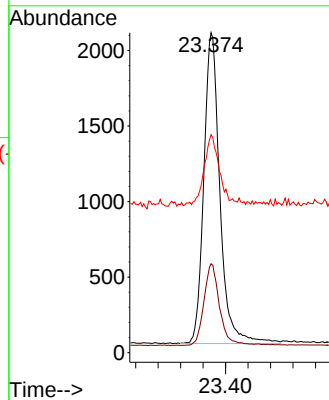
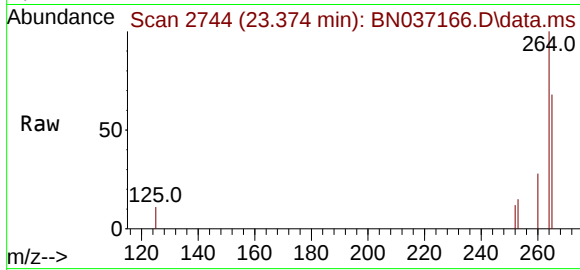




#35  
Perylene-d12  
Concen: 0.400 ng  
RT: 23.374 min Scan# 21  
Delta R.T. -0.003 min  
Lab File: BN037166.D  
Acq: 04 Jun 2025 10:27

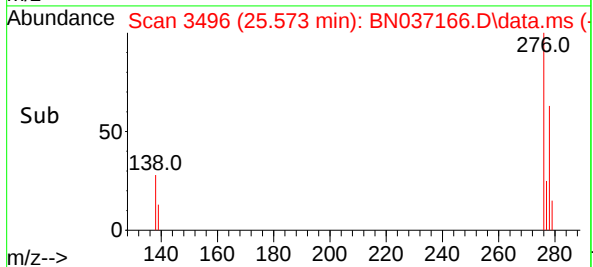
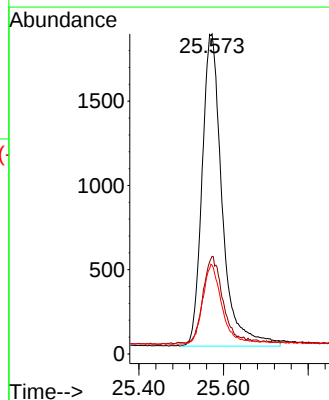
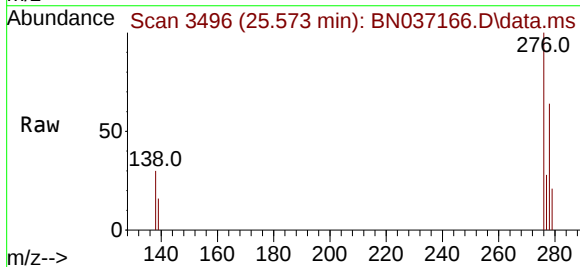
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDCCC0.4

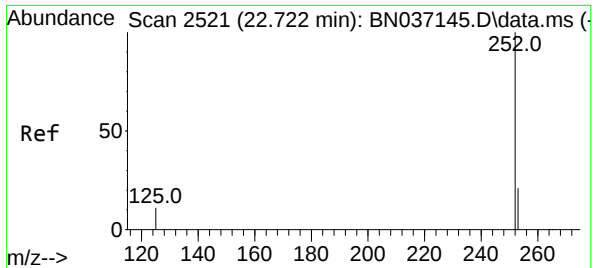
Tgt Ion:264 Resp: 4092  
Ion Ratio Lower Upper  
264 100  
260 27.8 22.1 33.1  
265 68.1 55.8 83.8



#36  
Indeno(1,2,3-cd)pyrene  
Concen: 0.374 ng  
RT: 25.573 min Scan# 3496  
Delta R.T. -0.000 min  
Lab File: BN037166.D  
Acq: 04 Jun 2025 10:27

Tgt Ion:276 Resp: 6087  
Ion Ratio Lower Upper  
276 100  
138 27.1 21.0 31.6  
277 24.7 19.4 29.2





#37

Benzo(b)fluoranthene

Concen: 0.358 ng

RT: 22.719 min Scan# 2520

Delta R.T. -0.003 min

Lab File: BN037166.D

Acq: 04 Jun 2025 10:27

Instrument :

BNA\_N

ClientSampleId :

SSTDCCC0.4

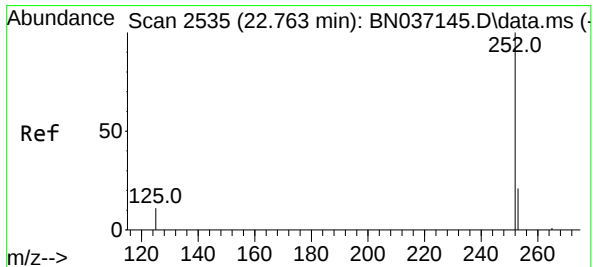
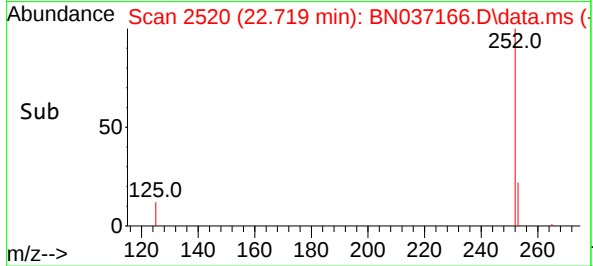
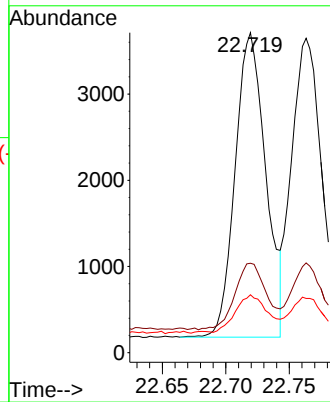
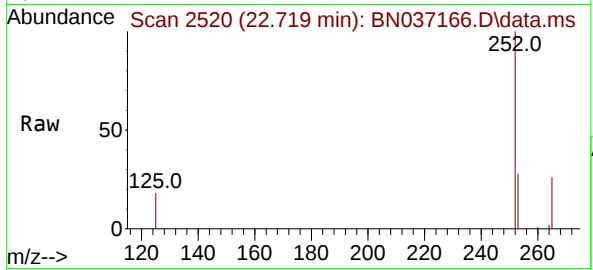
Tgt Ion:252 Resp: 5916

Ion Ratio Lower Upper

252 100

253 27.9 22.3 33.5

125 18.1 13.2 19.8



#38

Benzo(k)fluoranthene

Concen: 0.359 ng

RT: 22.763 min Scan# 2535

Delta R.T. -0.000 min

Lab File: BN037166.D

Acq: 04 Jun 2025 10:27

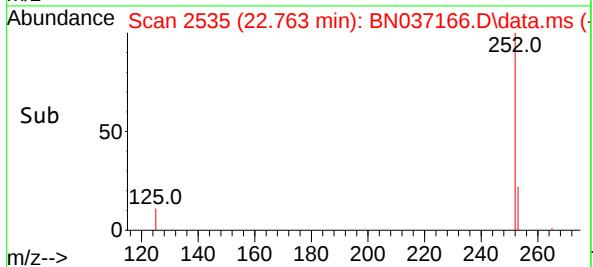
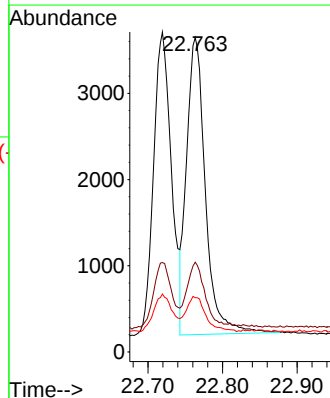
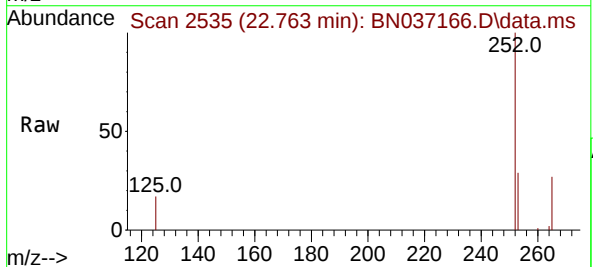
Tgt Ion:252 Resp: 6048

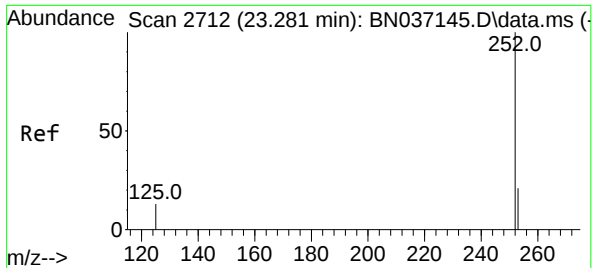
Ion Ratio Lower Upper

252 100

253 28.5 22.2 33.4

125 17.2 13.2 19.8





#39

Benzo(a)pyrene

Concen: 0.361 ng

RT: 23.281 min Scan# 21

Delta R.T. -0.000 min

Lab File: BN037166.D

Acq: 04 Jun 2025 10:27

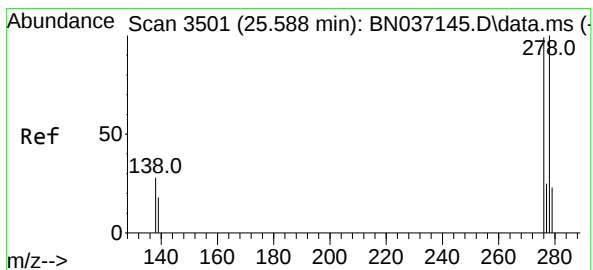
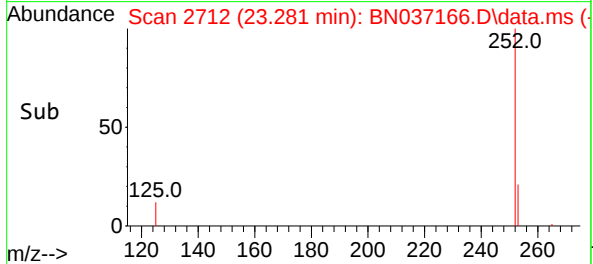
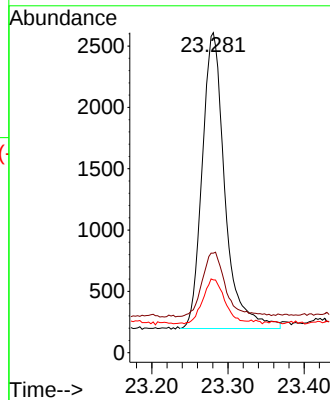
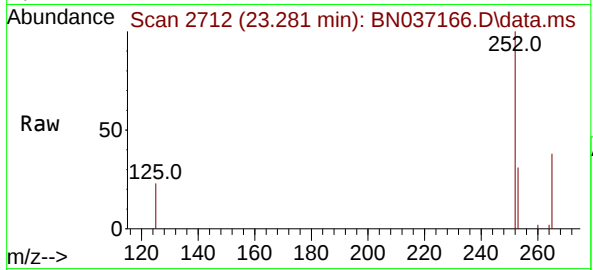
Instrument :

BNA\_N

ClientSampleId :

SSTDCCC0.4

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 252   | Resp: | 4995  |
| Ion      | Ratio | Lower | Upper |
| 252      | 100   |       |       |
| 253      | 31.1  | 25.0  | 37.4  |
| 125      | 22.8  | 17.0  | 25.6  |



#40

Dibenzo(a,h)anthracene

Concen: 0.371 ng

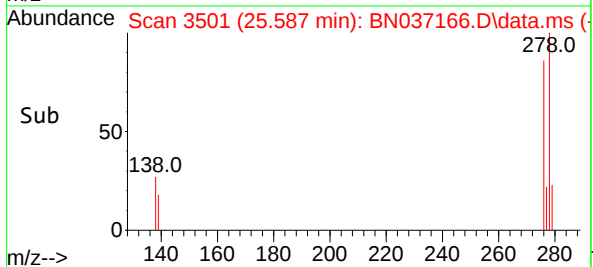
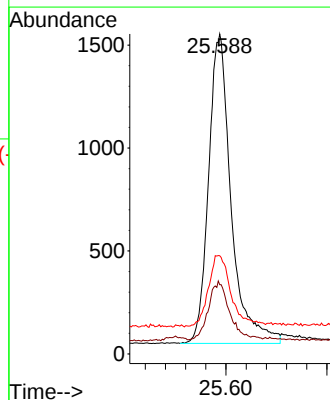
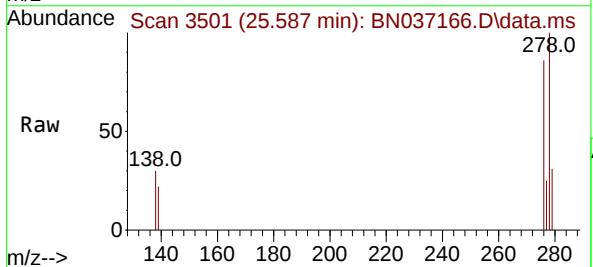
RT: 25.587 min Scan# 3501

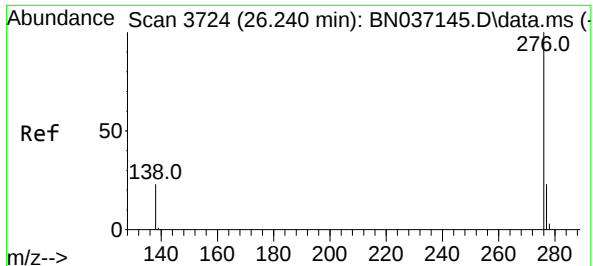
Delta R.T. -0.000 min

Lab File: BN037166.D

Acq: 04 Jun 2025 10:27

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 278   | Resp: | 4662  |
| Ion      | Ratio | Lower | Upper |
| 278      | 100   |       |       |
| 139      | 21.6  | 17.6  | 26.4  |
| 279      | 30.7  | 26.0  | 39.0  |





#41

Benzo(g,h,i)perylene

Concen: 0.367 ng

RT: 26.239 min Scan# 31

Delta R.T. -0.000 min

Lab File: BN037166.D

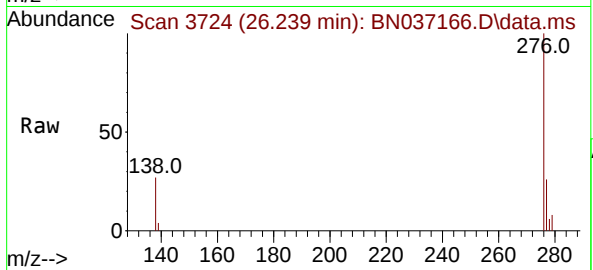
Acq: 04 Jun 2025 10:27

Instrument :

BNA\_N

ClientSampleId :

SSTDCCC0.4



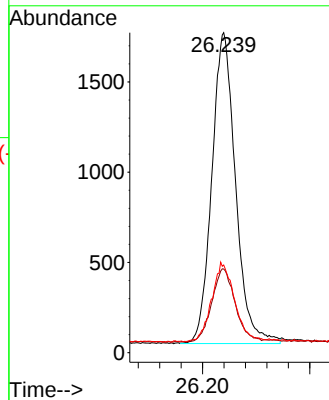
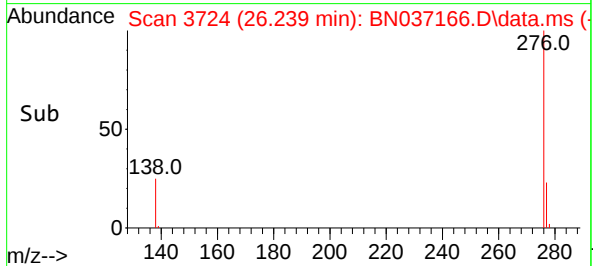
Tgt Ion:276 Resp: 5291

Ion Ratio Lower Upper

276 100

277 26.2 20.9 31.3

138 27.4 20.8 31.2



Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN060425\  
 Data File : BN037166.D  
 Acq On : 04 Jun 2025 10:27  
 Operator : RC/JU  
 Sample : SSTDCCC0.4  
 Misc :  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 BNA\_N  
 LabSampleId :  
 SSTDCCC0.4

Quant Time: Jun 04 10:54:51 2025  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\8270-SIM-BN060325.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Wed Jun 04 01:52:03 2025  
 Response via : Initial Calibration

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

|         | Compound                   | AvgRF | CCRF  | %Dev | Area% | Dev(min) |
|---------|----------------------------|-------|-------|------|-------|----------|
| 1 I     | 1,4-Dichlorobenzene-d4     | 1.000 | 1.000 | 0.0  | 131   | 0.00     |
| 2       | 1,4-Dioxane                | 0.533 | 0.507 | 4.9  | 131   | 0.00     |
| 3       | n-Nitrosodimethylamine     | 1.071 | 1.003 | 6.3  | 124   | 0.00     |
| 4 S     | 2-Fluorophenol             | 0.989 | 0.951 | 3.8  | 133   | 0.00     |
| 5 S     | Phenol-d6                  | 1.199 | 1.170 | 2.4  | 136   | 0.00     |
| 6       | bis(2-Chloroethyl)ether    | 1.144 | 1.169 | -2.2 | 136   | 0.00     |
| 7 I     | Naphthalene-d8             | 1.000 | 1.000 | 0.0  | 138   | 0.00     |
| 8 S     | Nitrobenzene-d5            | 0.422 | 0.420 | 0.5  | 137   | 0.00     |
| 9       | Naphthalene                | 1.154 | 1.123 | 2.7  | 138   | 0.00     |
| 10      | Hexachlorobutadiene        | 0.251 | 0.246 | 2.0  | 130   | 0.00     |
| 11 SURR | 2-Methylnaphthalene-d10    | 0.557 | 0.558 | -0.2 | 137   | 0.00     |
| 12      | 2-Methylnaphthalene        | 0.740 | 0.690 | 6.8  | 137   | 0.00     |
| 13 I    | Acenaphthene-d10           | 1.000 | 1.000 | 0.0  | 133   | 0.00     |
| 14 S    | 2,4,6-Tribromophenol       | 0.161 | 0.138 | 14.3 | 125   | -0.01    |
| 15 S    | 2-Fluorobiphenyl           | 1.705 | 1.701 | 0.2  | 139   | 0.00     |
| 16      | Acenaphthylene             | 1.961 | 1.775 | 9.5  | 133   | 0.00     |
| 17      | Acenaphthene               | 1.273 | 1.161 | 8.8  | 133   | 0.00     |
| 18      | Fluorene                   | 1.674 | 1.470 | 12.2 | 129   | 0.00     |
| 19 I    | Phenanthrene-d10           | 1.000 | 1.000 | 0.0  | 126   | 0.00     |
| 20      | 4,6-Dinitro-2-methylphenol | 0.077 | 0.071 | 7.8  | 178#  | -0.01    |
| 21      | 4-Bromophenyl-phenylether  | 0.262 | 0.235 | 10.3 | 121   | 0.00     |
| 22      | Hexachlorobenzene          | 0.283 | 0.269 | 4.9  | 126   | 0.00     |
| 23      | Atrazine                   | 0.216 | 0.181 | 16.2 | 122   | 0.00     |
| 24      | Pentachlorophenol          | 0.124 | 0.120 | 3.2  | 164#  | -0.01    |
| 25      | Phenanthrene               | 1.296 | 1.184 | 8.6  | 125   | -0.01    |
| 26      | Anthracene                 | 1.183 | 1.014 | 14.3 | 123   | 0.00     |
| 27 SURR | Fluoranthene-d10           | 1.016 | 0.928 | 8.7  | 120   | 0.00     |
| 28      | Fluoranthene               | 1.432 | 1.217 | 15.0 | 120   | 0.00     |
| 29 I    | Chrysene-d12               | 1.000 | 1.000 | 0.0  | 118   | 0.00     |
| 30      | Pyrene                     | 1.953 | 1.860 | 4.8  | 120   | 0.00     |
| 31 S    | Terphenyl-d14              | 0.942 | 0.909 | 3.5  | 120   | 0.00     |
| 32      | Benzo(a)anthracene         | 1.448 | 1.344 | 7.2  | 123   | 0.00     |
| 33      | Chrysene                   | 1.612 | 1.470 | 8.8  | 118   | 0.00     |
| 34      | Bis(2-ethylhexyl)phthalate | 0.914 | 0.794 | 13.1 | 121   | 0.00     |
| 35 I    | Perylene-d12               | 1.000 | 1.000 | 0.0  | 121   | 0.00     |
| 36      | Indeno(1,2,3-cd)pyrene     | 1.591 | 1.488 | 6.5  | 120   | 0.00     |
| 37      | Benzo(b)fluoranthene       | 1.615 | 1.446 | 10.5 | 123   | 0.00     |
| 38      | Benzo(k)fluoranthene       | 1.648 | 1.478 | 10.3 | 122   | 0.00     |
| 39 C    | Benzo(a)pyrene             | 1.352 | 1.221 | 9.7  | 121   | 0.00     |
| 40      | Dibenzo(a,h)anthracene     | 1.227 | 1.139 | 7.2  | 119   | 0.00     |
| 41      | Benzo(g,h,i)perylene       | 1.410 | 1.293 | 8.3  | 116   | 0.00     |

(#) = Out of Range

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

Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN060425\  
Data File : BN037166.D  
Acq On : 04 Jun 2025 10:27  
Operator : RC/JU  
Sample : SSTDCCC0.4  
Misc :  
ALS Vial : 2 Sample Multiplier: 1

Instrument :  
BNA\_N  
LabSampleId :  
SSTDCCC0.4

Quant Time: Jun 04 10:54:51 2025  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\8270-SIM-BN060325.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Wed Jun 04 01:52:03 2025  
Response via : Initial Calibration

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

|         | Compound                   | Amount | Calc. | %Dev   | Area% | Dev(min) |
|---------|----------------------------|--------|-------|--------|-------|----------|
| 1 I     | 1,4-Dichlorobenzene-d4     | 0.400  | 0.400 | 0.0    | 131   | 0.00     |
| 2       | 1,4-Dioxane                | 0.400  | 0.381 | 4.8    | 131   | 0.00     |
| 3       | n-Nitrosodimethylamine     | 0.400  | 0.375 | 6.3    | 124   | 0.00     |
| 4 S     | 2-Fluorophenol             | 0.400  | 0.385 | 3.8    | 133   | 0.00     |
| 5 S     | Phenol-d6                  | 0.400  | 0.390 | 2.5    | 136   | 0.00     |
| 6       | bis(2-Chloroethyl)ether    | 0.400  | 0.409 | -2.2   | 136   | 0.00     |
| 7 I     | Naphthalene-d8             | 0.400  | 0.400 | 0.0    | 138   | 0.00     |
| 8 S     | Nitrobenzene-d5            | 0.400  | 0.398 | 0.5    | 137   | 0.00     |
| 9       | Naphthalene                | 0.400  | 0.389 | 2.8    | 138   | 0.00     |
| 10      | Hexachlorobutadiene        | 0.400  | 0.391 | 2.3    | 130   | 0.00     |
| 11 SURR | 2-Methylnaphthalene-d10    | 0.400  | 0.401 | -0.3   | 137   | 0.00     |
| 12      | 2-Methylnaphthalene        | 0.400  | 0.373 | 6.8    | 137   | 0.00     |
| 13 I    | Acenaphthene-d10           | 0.400  | 0.400 | 0.0    | 133   | 0.00     |
| 14 S    | 2,4,6-Tribromophenol       | 0.400  | 0.342 | 14.5   | 125   | -0.01    |
| 15 S    | 2-Fluorobiphenyl           | 0.400  | 0.399 | 0.3    | 139   | 0.00     |
| 16      | Acenaphthylene             | 0.400  | 0.362 | 9.5    | 133   | 0.00     |
| 17      | Acenaphthene               | 0.400  | 0.365 | 8.8    | 133   | 0.00     |
| 18      | Fluorene                   | 0.400  | 0.351 | 12.3   | 129   | 0.00     |
| 19 I    | Phenanthrene-d10           | 0.400  | 0.400 | 0.0    | 126   | 0.00     |
| 20      | 4,6-Dinitro-2-methylphenol | 0.400  | 0.515 | -28.7# | 178   | -0.01    |
| 21      | 4-Bromophenyl-phenylether  | 0.400  | 0.358 | 10.5   | 121   | 0.00     |
| 22      | Hexachlorobenzene          | 0.400  | 0.381 | 4.8    | 126   | 0.00     |
| 23      | Atrazine                   | 0.400  | 0.335 | 16.3   | 122   | 0.00     |
| 24      | Pentachlorophenol          | 0.400  | 0.498 | -24.5  | 164   | -0.01    |
| 25      | Phenanthrene               | 0.400  | 0.366 | 8.5    | 125   | -0.01    |
| 26      | Anthracene                 | 0.400  | 0.343 | 14.2   | 123   | 0.00     |
| 27 SURR | Fluoranthene-d10           | 0.400  | 0.365 | 8.8    | 120   | 0.00     |
| 28      | Fluoranthene               | 0.400  | 0.340 | 15.0   | 120   | 0.00     |
| 29 I    | Chrysene-d12               | 0.400  | 0.400 | 0.0    | 118   | 0.00     |
| 30      | Pyrene                     | 0.400  | 0.381 | 4.8    | 120   | 0.00     |
| 31 S    | Terphenyl-d14              | 0.400  | 0.386 | 3.5    | 120   | 0.00     |
| 32      | Benzo(a)anthracene         | 0.400  | 0.371 | 7.3    | 123   | 0.00     |
| 33      | Chrysene                   | 0.400  | 0.365 | 8.8    | 118   | 0.00     |
| 34      | Bis(2-ethylhexyl)phthalate | 0.400  | 0.348 | 13.0   | 121   | 0.00     |
| 35 I    | Perylene-d12               | 0.400  | 0.400 | 0.0    | 121   | 0.00     |
| 36      | Indeno(1,2,3-cd)pyrene     | 0.400  | 0.374 | 6.5    | 120   | 0.00     |
| 37      | Benzo(b)fluoranthene       | 0.400  | 0.358 | 10.5   | 123   | 0.00     |
| 38      | Benzo(k)fluoranthene       | 0.400  | 0.359 | 10.3   | 122   | 0.00     |
| 39 C    | Benzo(a)pyrene             | 0.400  | 0.361 | 9.8    | 121   | 0.00     |
| 40      | Dibenzo(a,h)anthracene     | 0.400  | 0.371 | 7.3    | 119   | 0.00     |
| 41      | Benzo(g,h,i)perylene       | 0.400  | 0.367 | 8.3    | 116   | 0.00     |

(#) = Out of Range

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



# QC SAMPLE DATA

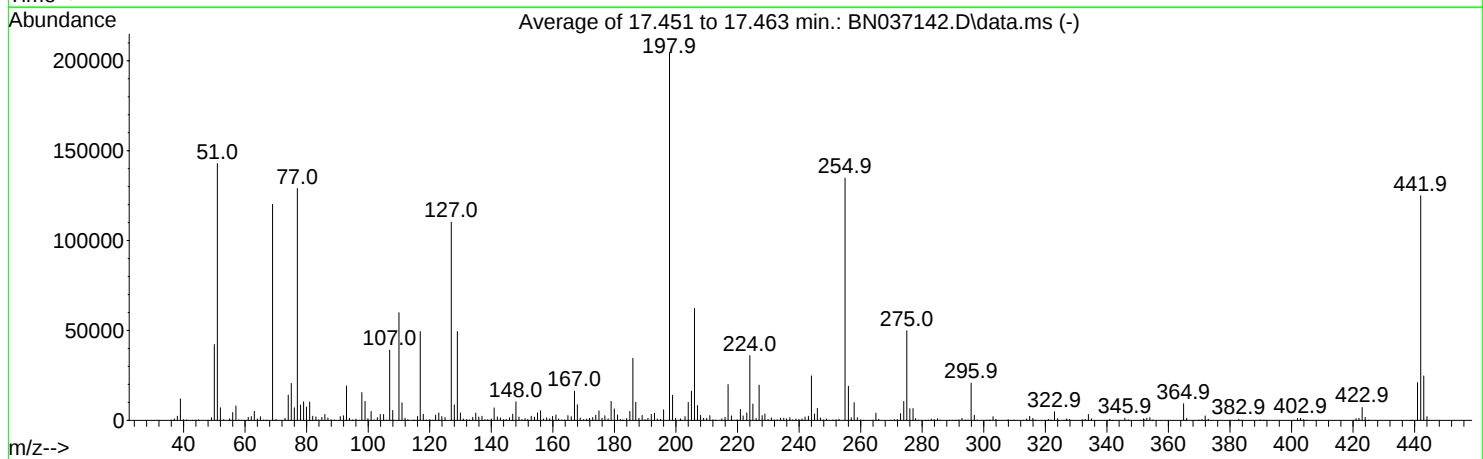
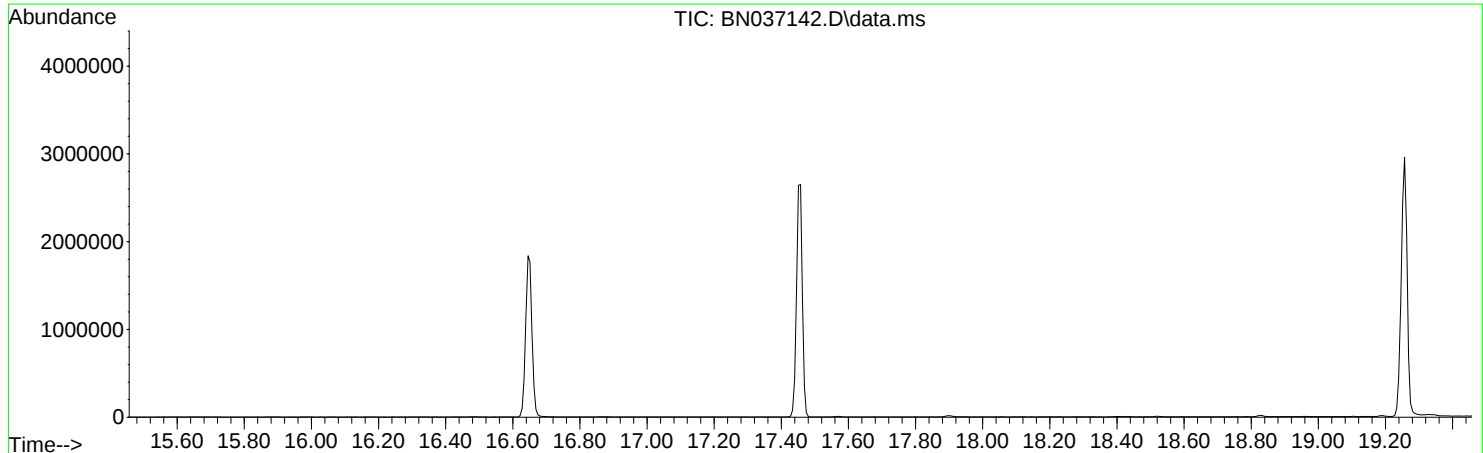
- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14
- 15
- 16
- 17

Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN060325\  
Data File : BN037142.D  
Acq On : 03 Jun 2025 10:21  
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-BN060325.M  
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
Last Update : Wed Jun 04 01:52:03 2025



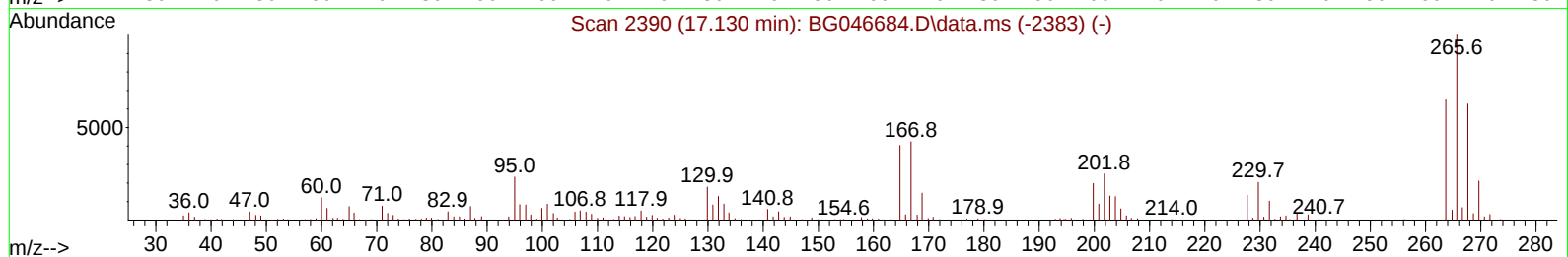
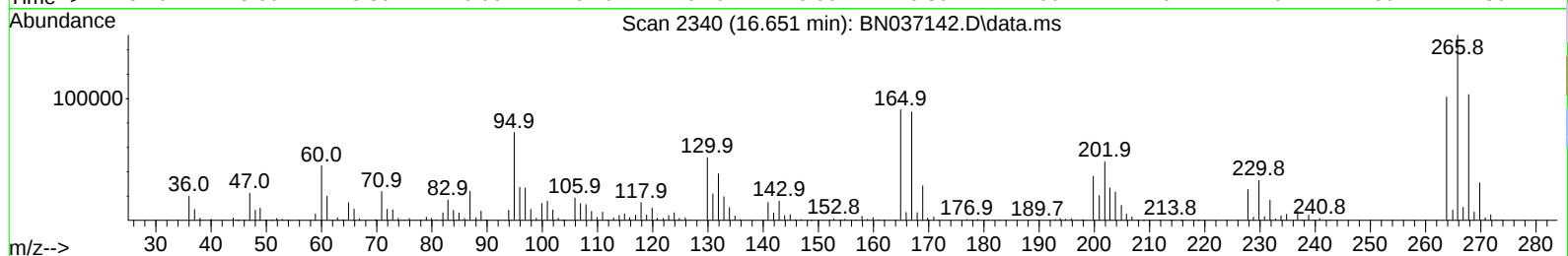
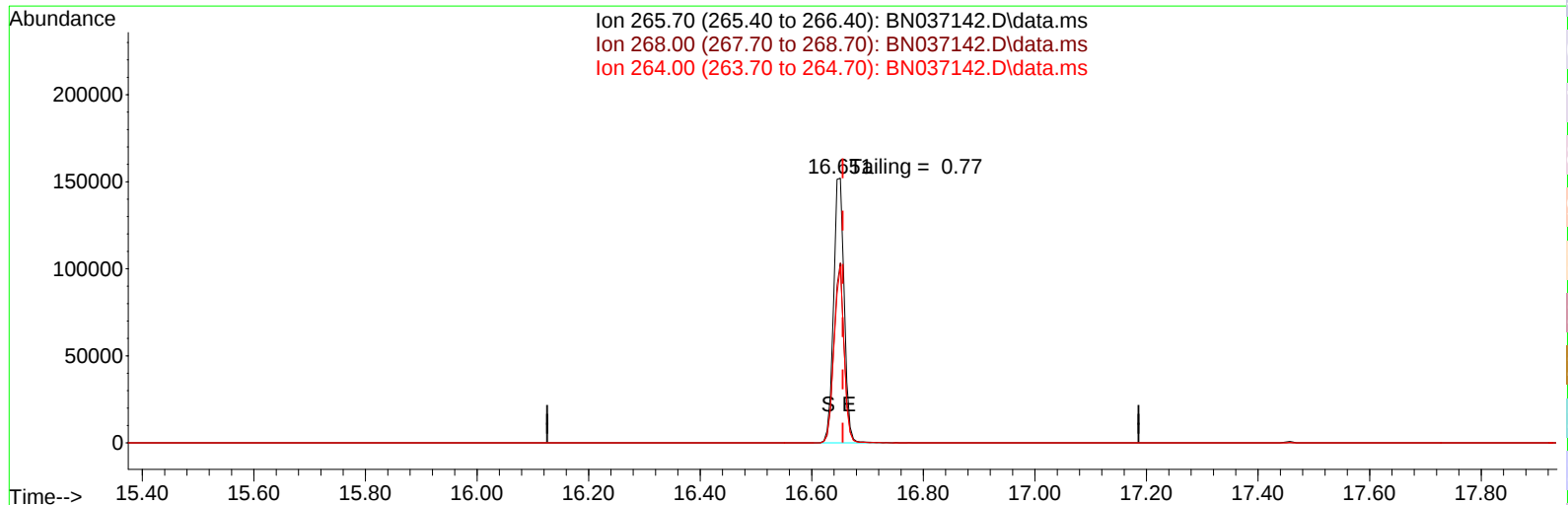
AutoFind: Scans 2476, 2477, 2478; Background Corrected with Scan 2469

| 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              | 69.8         | 142869     | PASS                |
| 68             | 69              | 0.00            | 2               | 0.0          | 0          | PASS                |
| 69             | 198             | 0.00            | 100             | 58.7         | 120176     | PASS                |
| 70             | 69              | 0.00            | 2               | 0.5          | 575        | PASS                |
| 127            | 198             | 10              | 80              | 53.9         | 110283     | PASS                |
| 197            | 198             | 0.00            | 2               | 0.0          | 0          | PASS                |
| 198            | 198             | 100             | 100             | 100.0        | 204619     | PASS                |
| 199            | 198             | 5               | 9               | 6.8          | 13950      | PASS                |
| 275            | 198             | 10              | 60              | 24.4         | 49829      | PASS                |
| 365            | 198             | 1               | 100             | 4.5          | 9270       | PASS                |
| 441            | 198             | 0.01            | 100             | 10.3         | 21027      | PASS                |
| 442            | 442             | 50              | 100             | 100.0        | 124989     | PASS                |
| 443            | 442             | 15              | 24              | 19.8         | 24771      | PASS                |

Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN060325\  
Data File : BN037142.D  
Acq On : 03 Jun 2025 10:21  
Operator : RC/JU  
Sample : DFTPP  
Misc :  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
BNA\_N  
ClientSampleId :  
DFTPP

Quant Time: Jun 03 13:49:49 2025  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\8270E-Tune.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Tue May 27 07:40:28 2025  
Response via : Initial Calibration



TIC: BN037142.D\data.ms

**(70) Pentachlorophenol (C)**

16.651min (-0.005) 16176.78 ng

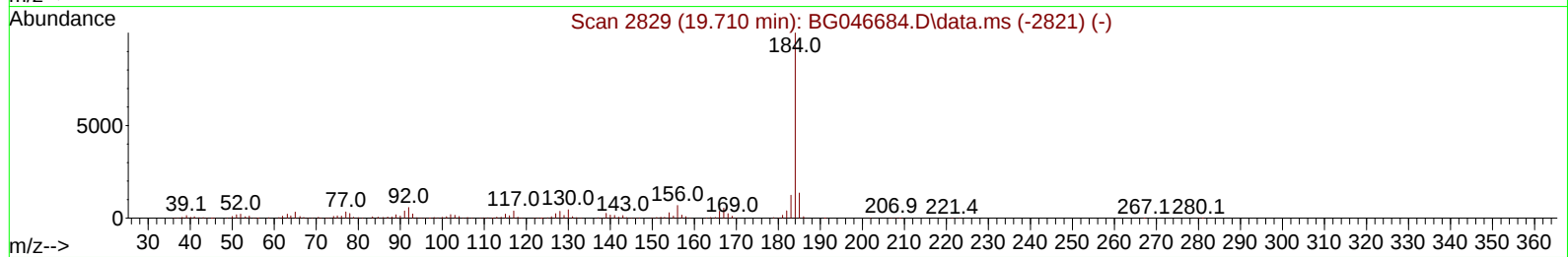
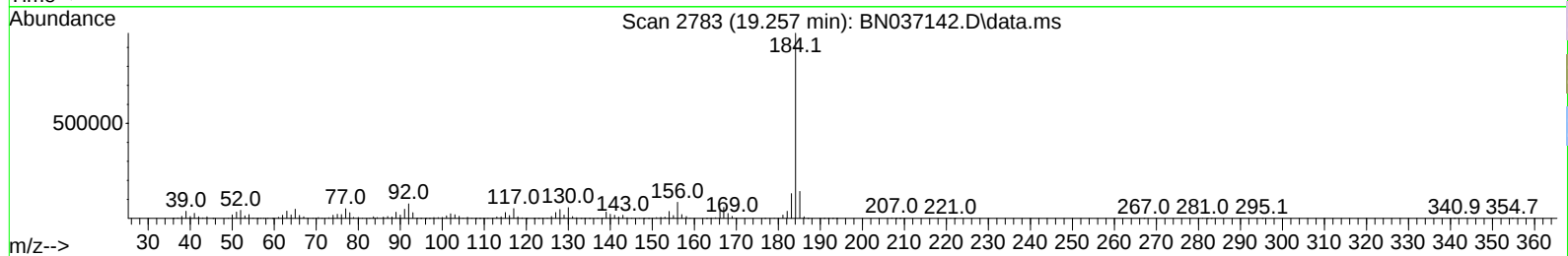
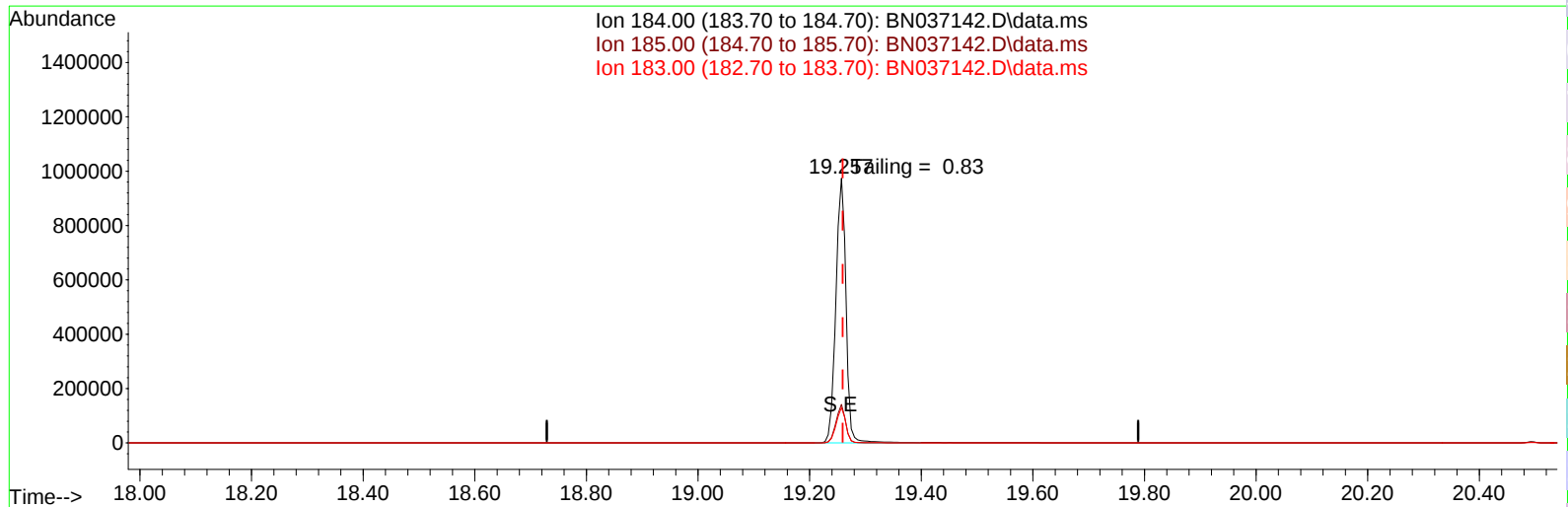
response 200710

| Ion    | Exp%   | Act%   |
|--------|--------|--------|
| 265.70 | 100.00 | 100.00 |
| 268.00 | 62.20  | 67.97  |
| 264.00 | 61.60  | 66.57  |
| 0.00   | 0.00   | 0.00   |

Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN060325\  
Data File : BN037142.D  
Acq On : 03 Jun 2025 10:21  
Operator : RC/JU  
Sample : DFTPP  
Misc :  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
BNA\_N  
ClientSampleId :  
DFTPP

Quant Time: Jun 03 13:56:06 2025  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\8270E-Tune.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Tue May 27 07:40:28 2025  
Response via : Initial Calibration



TIC: BN037142.D\data.ms

**(77) Benzidine**

19.257min (-0.002) 0.00 ng

response 1234162

| Ion    | Exp%   | Act%   |
|--------|--------|--------|
| 184.00 | 100.00 | 100.00 |
| 185.00 | 15.50  | 14.54  |
| 183.00 | 13.20  | 13.40  |
| 0.00   | 0.00   | 0.00   |

Instrument :  
BNA\_N  
ClientSampleId :  
DFTPP

DDT Breakdown

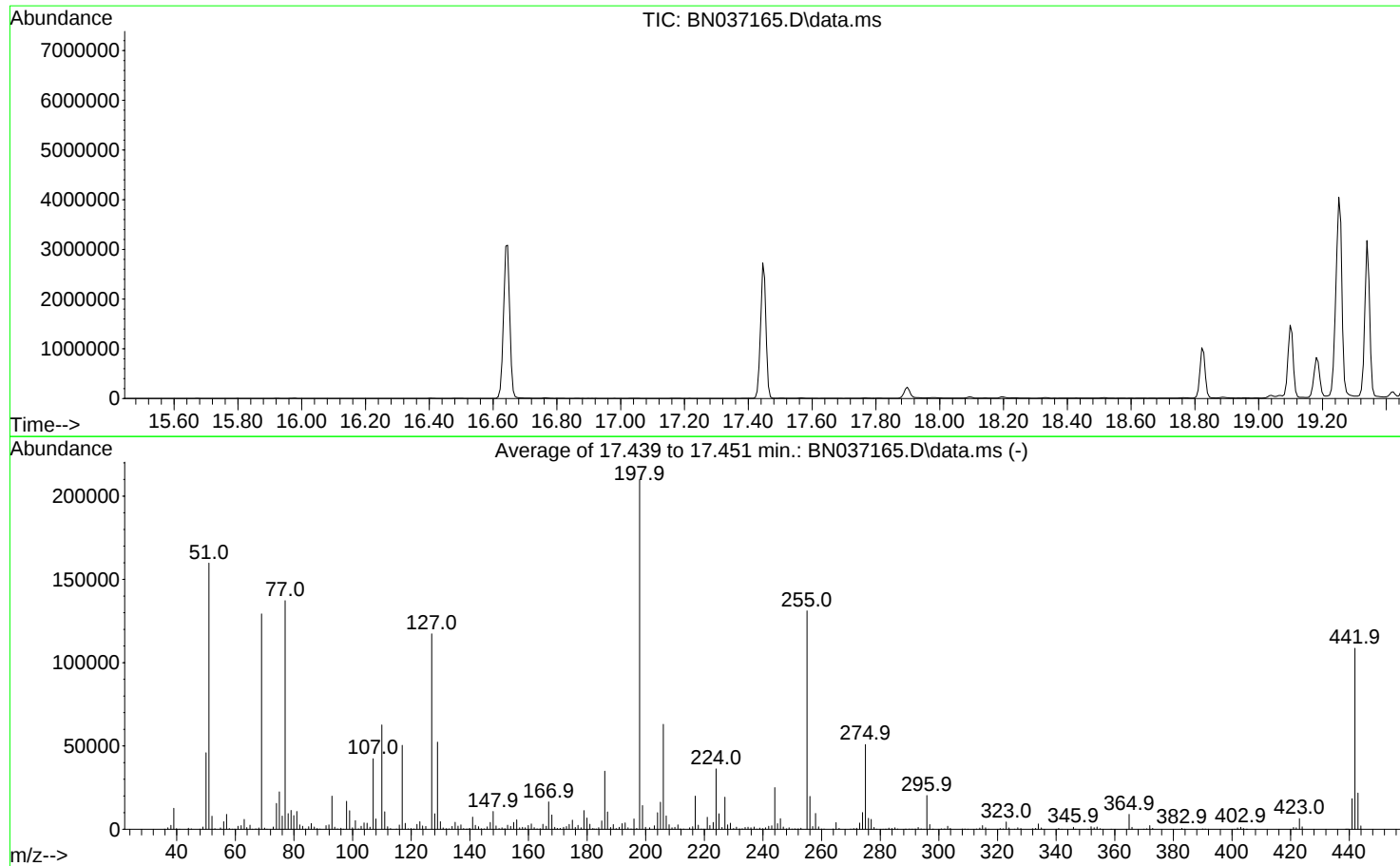
| Date          | Instrument Name  | DFTPP Data File    |
|---------------|------------------|--------------------|
| 6/3/2025      | BNA_N            | <u>BN037142.D</u>  |
|               |                  |                    |
|               |                  |                    |
| Compound Name | Response         | Retention Time     |
|               |                  |                    |
| DDT           | 724224           | 20.492             |
| DDD           | 9498             | 20.104             |
| DDE           | 658              | 19.545             |
|               |                  |                    |
|               |                  |                    |
| SUM(DDD+DDE)  | SUM(DDT+DDD+DDE) | % Breakdown Of DDT |
|               |                  |                    |
| 10156         | 734380           | 1.38               |
|               |                  |                    |

Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN060425\  
Data File : BN037165.D  
Acq On : 04 Jun 2025 09:04  
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-BN060325.M  
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
Last Update : Wed Jun 04 01:52:03 2025



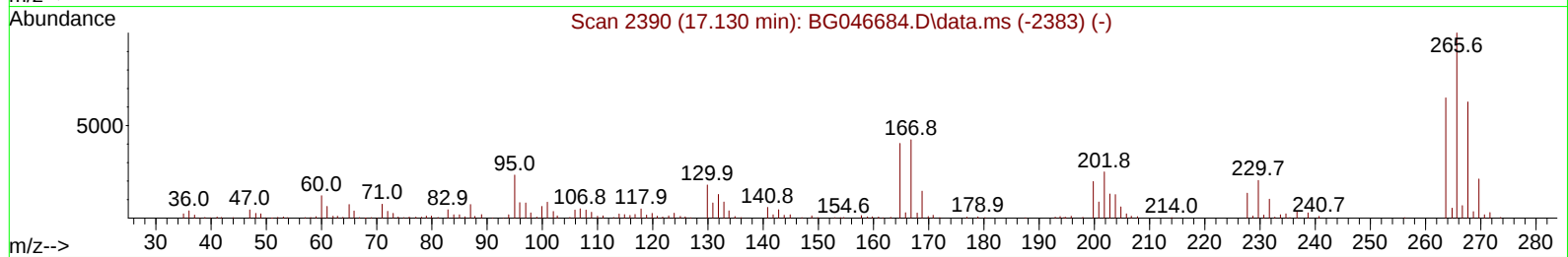
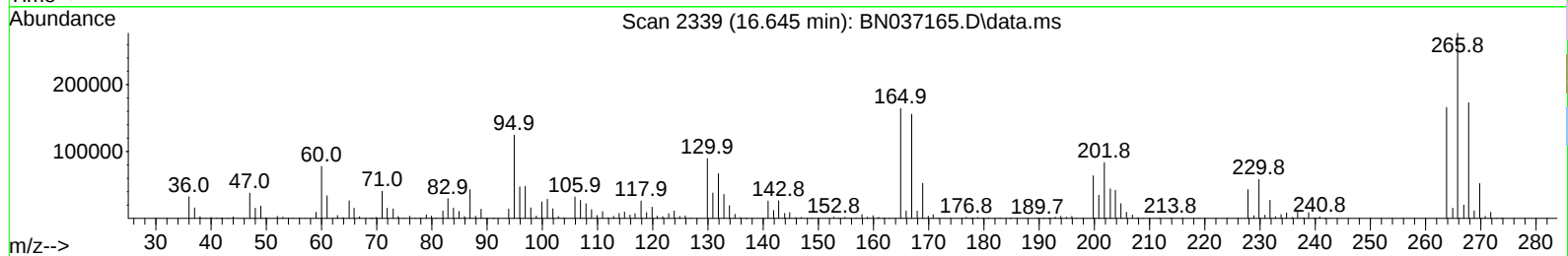
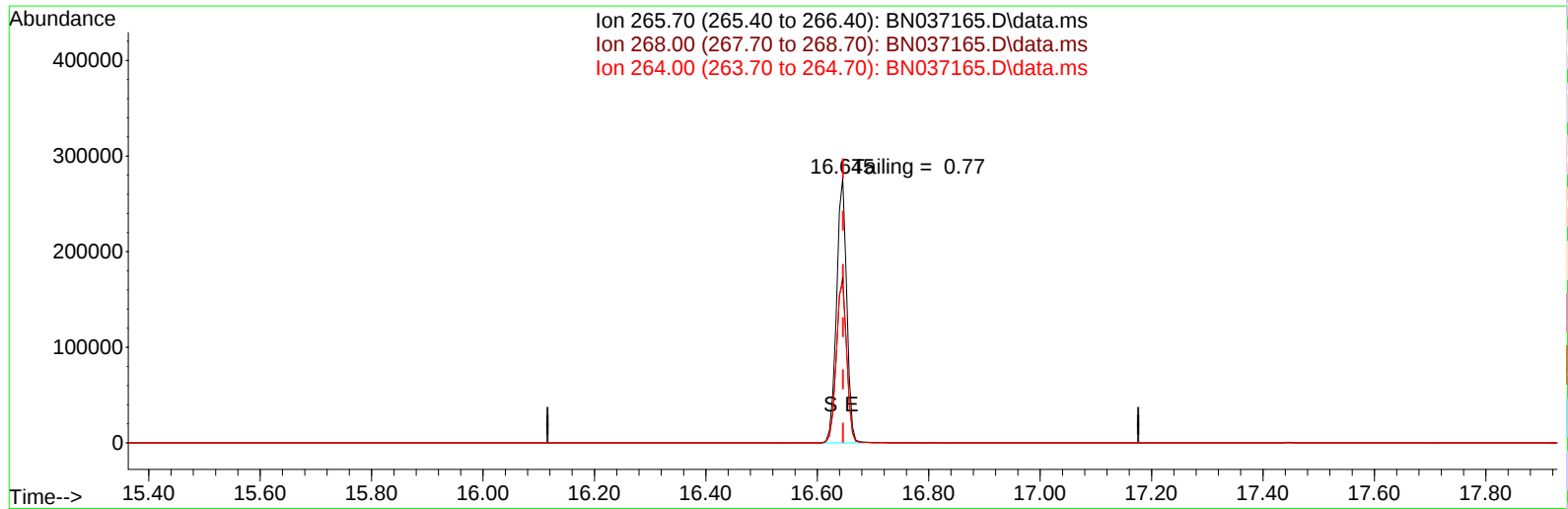
AutoFind: Scans 2474, 2475, 2476; Background Corrected with Scan 2467

| 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              | 76.1         | 159787     | PASS                |
| 68             | 69              | 0.00            | 2               | 0.6          | 809        | PASS                |
| 69             | 198             | 0.00            | 100             | 61.6         | 129340     | PASS                |
| 70             | 69              | 0.00            | 2               | 0.5          | 691        | PASS                |
| 127            | 198             | 10              | 80              | 55.9         | 117328     | PASS                |
| 197            | 198             | 0.00            | 2               | 0.2          | 516        | PASS                |
| 198            | 198             | 100             | 100             | 100.0        | 209941     | PASS                |
| 199            | 198             | 5               | 9               | 6.8          | 14242      | PASS                |
| 275            | 198             | 10              | 60              | 24.2         | 50891      | PASS                |
| 365            | 198             | 1               | 100             | 4.3          | 8935       | PASS                |
| 441            | 198             | 0.01            | 100             | 8.7          | 18355      | PASS                |
| 442            | 442             | 50              | 100             | 100.0        | 108645     | PASS                |
| 443            | 442             | 15              | 24              | 20.0         | 21721      | PASS                |

Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN060425\  
Data File : BN037165.D  
Acq On : 04 Jun 2025 09:04  
Operator : RC/JU  
Sample : DFTPP  
Misc :  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
BNA\_N  
ClientSampleId :  
DFTPP

Quant Time: Jun 04 15:38:46 2025  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\8270E-Tune.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Wed Jun 04 02:36:29 2025  
Response via : Initial Calibration



TIC: BN037165.D\data.ms

**(70) Pentachlorophenol (C)**

16.645min (-0.001) 30128.98 ng

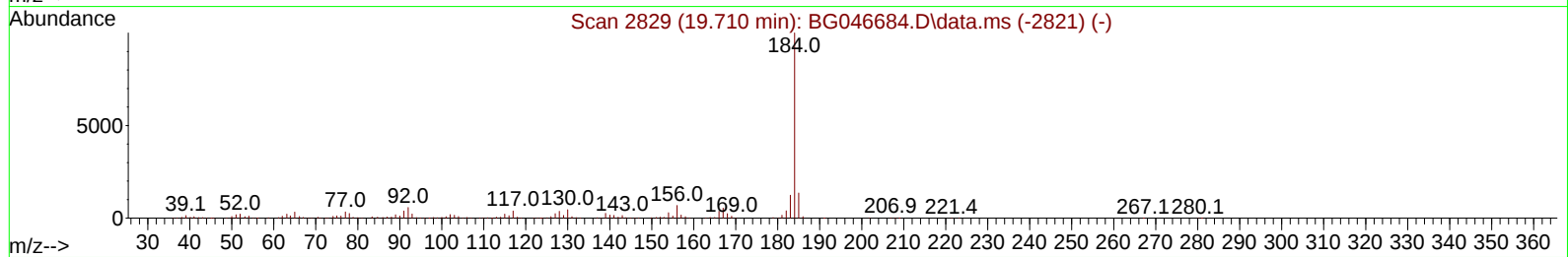
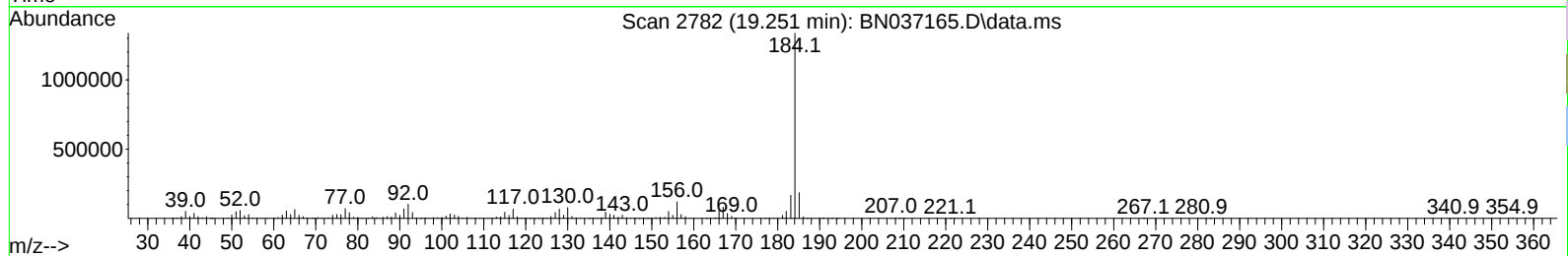
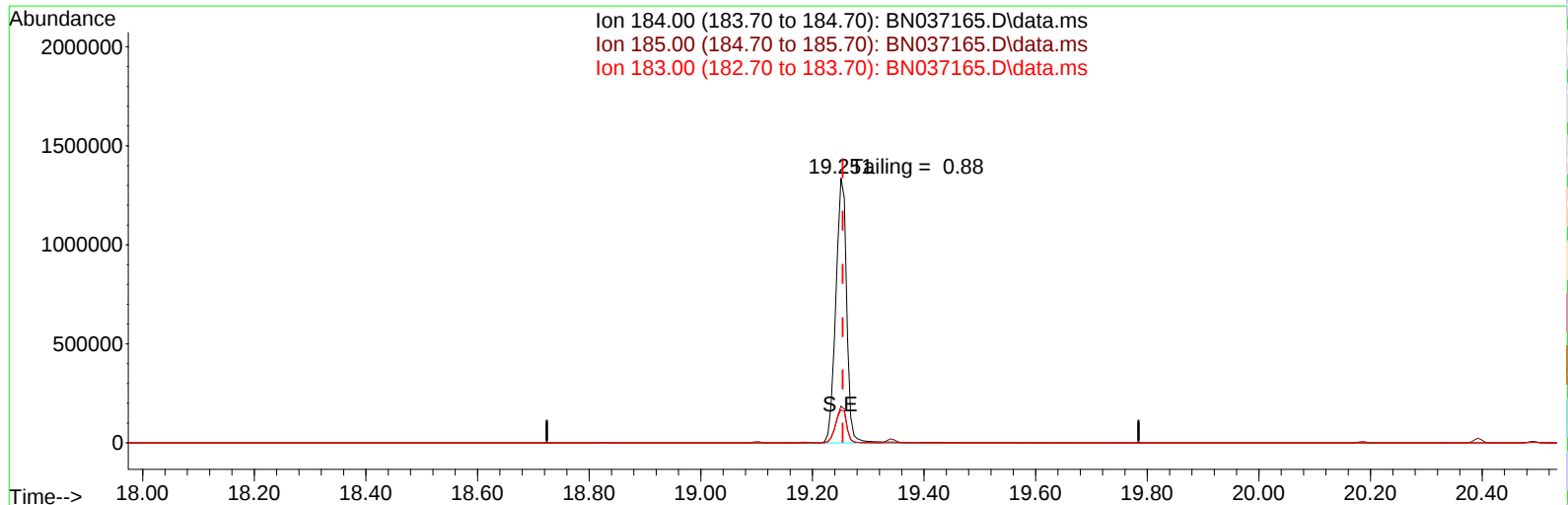
response 352539

| Ion    | Exp%   | Act%   |
|--------|--------|--------|
| 265.70 | 100.00 | 100.00 |
| 268.00 | 62.20  | 62.46  |
| 264.00 | 61.60  | 59.96  |
| 0.00   | 0.00   | 0.00   |

Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN060425\  
Data File : BN037165.D  
Acq On : 04 Jun 2025 09:04  
Operator : RC/JU  
Sample : DFTPP  
Misc :  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
BNA\_N  
ClientSampleId :  
DFTPP

Quant Time: Jun 04 15:36:13 2025  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\8270E-Tune.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Wed Jun 04 02:36:29 2025  
Response via : Initial Calibration



TIC: BN037165.D\data.ms

**(77) Benzidine**

19.251min (-0.003) 0.00 ng

response 1811758

| Ion    | Exp%   | Act%   |
|--------|--------|--------|
| 184.00 | 100.00 | 100.00 |
| 185.00 | 15.50  | 13.92  |
| 183.00 | 13.20  | 12.53  |
| 0.00   | 0.00   | 0.00   |

Instrument :  
BNA\_N  
ClientSampleId :  
DFTPP

DDT Breakdown

| Date          | Instrument Name  | DFTPP Data File    |
|---------------|------------------|--------------------|
| 6/4/2025      | BNA_N            | <u>BN037165.D</u>  |
|               |                  |                    |
|               |                  |                    |
| Compound Name | Response         | Retention Time     |
|               |                  |                    |
| DDT           | 1237139          | 20.492             |
| DDD           | 19824            | 20.098             |
| DDE           | 602              | 19.539             |
|               |                  |                    |
|               |                  |                    |
| SUM(DDD+DDE)  | SUM(DDT+DDD+DDE) | % Breakdown Of DDT |
|               |                  |                    |
| 20426         | 1257565          | 1.62               |
|               |                  |                    |

## Report of Analysis

|                    |                                        |                 |               |
|--------------------|----------------------------------------|-----------------|---------------|
| Client:            | Alliance Technical Group, LLC - Newark | Date Collected: |               |
| Project:           | NJ Waste Water PT                      | Date Received:  |               |
| Client Sample ID:  | PB168238BL                             | SDG No.:        | Q2181         |
| Lab Sample ID:     | PB168238BL                             | Matrix:         | Water         |
| Analytical Method: | SW8270ESIM                             | % Solid:        | 0             |
| Sample Wt/Vol:     | 1000 Units: mL                         | Final Vol:      | 1000 uL       |
| Soil Aliquot Vol:  | uL                                     | Test:           | SVOCMS Group5 |
| Extraction Type :  | Decanted : N                           | Level :         | LOW           |
| Injection Volume : | GPC Factor : 1.0                       | GPC Cleanup :   | N PH :        |
| Prep Method :      |                                        |                 |               |

|                   |           |                |                |               |
|-------------------|-----------|----------------|----------------|---------------|
| File ID/Qc Batch: | Dilution: | Prep Date      | Date Analyzed  | Prep Batch ID |
| BN037167.D        | 1         | 06/02/25 08:55 | 06/04/25 11:03 | PB168238      |

| CAS Number                | Parameter               | Conc. | Qualifier | MDL      | LOQ / CRQL | Units    |
|---------------------------|-------------------------|-------|-----------|----------|------------|----------|
| <b>TARGETS</b>            |                         |       |           |          |            |          |
| 208-96-8                  | Acenaphthylene          | 0.040 | U         | 0.040    | 0.10       | ug/L     |
| <b>SURROGATES</b>         |                         |       |           |          |            |          |
| 7297-45-2                 | 2-Methylnaphthalene-d10 | 0.34  |           | 20 - 139 | 84%        | SPK: 0.4 |
| 93951-69-0                | Fluoranthene-d10        | 0.34  |           | 54 - 157 | 84%        | SPK: 0.4 |
| 4165-60-0                 | Nitrobenzene-d5         | 0.34  |           | 27 - 154 | 85%        | SPK: 0.4 |
| 321-60-8                  | 2-Fluorobiphenyl        | 0.36  |           | 30 - 155 | 91%        | SPK: 0.4 |
| 1718-51-0                 | Terphenyl-d14           | 0.37  |           | 54 - 175 | 93%        | SPK: 0.4 |
| <b>INTERNAL STANDARDS</b> |                         |       |           |          |            |          |
| 3855-82-1                 | 1,4-Dichlorobenzene-d4  | 2940  | 7.589     |          |            |          |
| 1146-65-2                 | Naphthalene-d8          | 7110  | 10.372    |          |            |          |
| 15067-26-2                | Acenaphthene-d10        | 3690  | 14.245    |          |            |          |
| 1517-22-2                 | Phenanthrene-d10        | 6730  | 16.984    |          |            |          |
| 1719-03-5                 | Chrysene-d12            | 4440  | 21.189    |          |            |          |
| 1520-96-3                 | Perylene-d12            | 4130  | 23.374    |          |            |          |

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\BN060425\  
Data File : BN037167.D  
Acq On : 04 Jun 2025 11:03  
Operator : RC/JU  
Sample : PB168238BL  
Misc :  
ALS Vial : 3 Sample Multiplier: 1

Instrument :  
BNA\_N  
ClientSampleId :  
PB168238BL

Quant Time: Jun 04 12:25:23 2025  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\8270-SIM-BN060325.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Wed Jun 04 01:52:03 2025  
Response via : Initial Calibration

| Compound                    | R.T.   | QIon | Response | Conc  | Units | Dev(Min) |
|-----------------------------|--------|------|----------|-------|-------|----------|
| Internal Standards          |        |      |          |       |       |          |
| 1) 1,4-Dichlorobenzene-d4   | 7.589  | 152  | 2941     | 0.400 | ng    | 0.00     |
| 7) Naphthalene-d8           | 10.372 | 136  | 7107     | 0.400 | ng    | 0.00     |
| 13) Acenaphthene-d10        | 14.245 | 164  | 3690     | 0.400 | ng    | 0.01     |
| 19) Phenanthrene-d10        | 16.984 | 188  | 6730     | 0.400 | ng    | 0.00     |
| 29) Chrysene-d12            | 21.189 | 240  | 4435     | 0.400 | ng    | 0.00     |
| 35) Perylene-d12            | 23.374 | 264  | 4132     | 0.400 | ng    | 0.00     |
| System Monitoring Compounds |        |      |          |       |       |          |
| 4) 2-Fluorophenol           | 5.192  | 112  | 2715     | 0.373 | ng    | 0.00     |
| 5) Phenol-d6                | 6.773  | 99   | 3089     | 0.350 | ng    | 0.00     |
| 8) Nitrobenzene-d5          | 8.739  | 82   | 2547     | 0.340 | ng    | 0.00     |
| 11) 2-Methylnaphthalene-d10 | 11.971 | 152  | 3335     | 0.337 | ng    | 0.00     |
| 14) 2,4,6-Tribromophenol    | 15.743 | 330  | 378      | 0.254 | ng    | 0.00     |
| 15) 2-Fluorobiphenyl        | 12.863 | 172  | 5709     | 0.363 | ng    | 0.00     |
| 27) Fluoranthene-d10        | 19.026 | 212  | 5729     | 0.335 | ng    | 0.00     |
| 31) Terphenyl-d14           | 19.630 | 244  | 3861     | 0.370 | ng    | 0.00     |

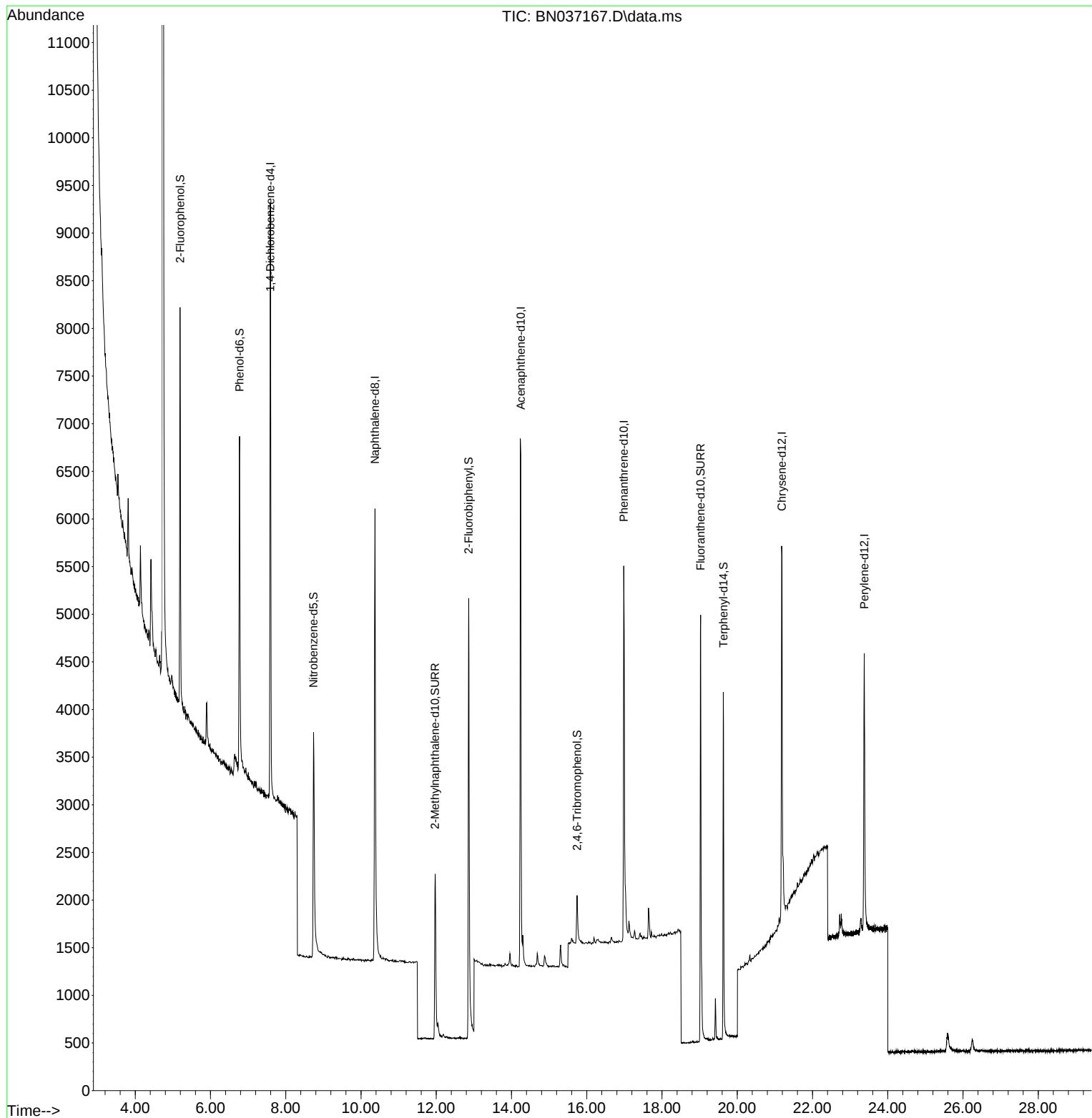
| Target Compounds | Qvalue |
|------------------|--------|
|------------------|--------|

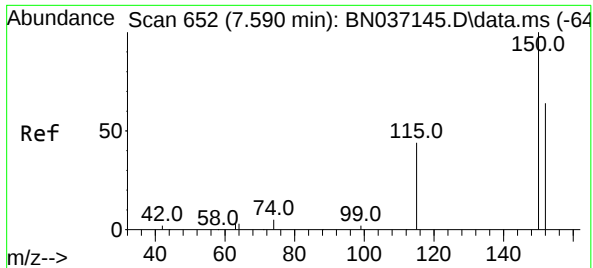
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN060425\  
Data File : BN037167.D  
Acq On : 04 Jun 2025 11:03  
Operator : RC/JU  
Sample : PB168238BL  
Misc :  
ALS Vial : 3 Sample Multiplier: 1

Instrument :  
BNA\_N  
ClientSampleId :  
PB168238BL

Quant Time: Jun 04 12:25:23 2025  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\8270-SIM-BN060325.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Wed Jun 04 01:52:03 2025  
Response via : Initial Calibration

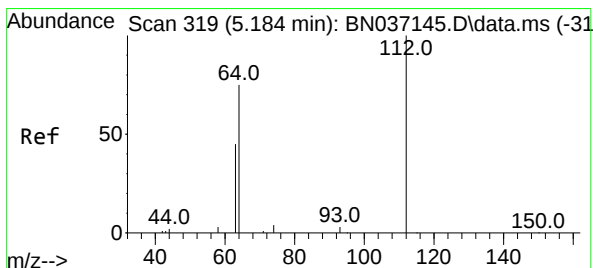
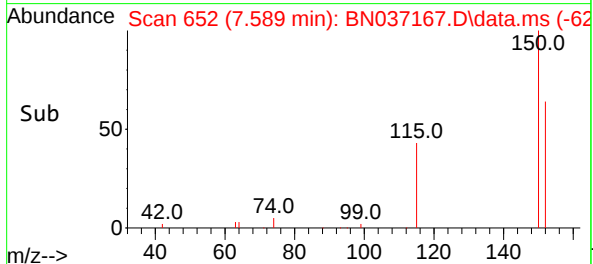
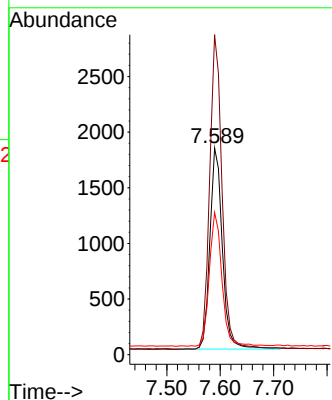
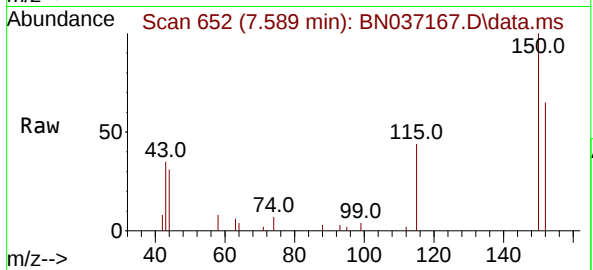




#1  
1,4-Dichlorobenzene-d4  
Concen: 0.400 ng  
RT: 7.589 min Scan# 61  
Delta R.T. -0.001 min  
Lab File: BN037167.D  
Acq: 04 Jun 2025 11:03

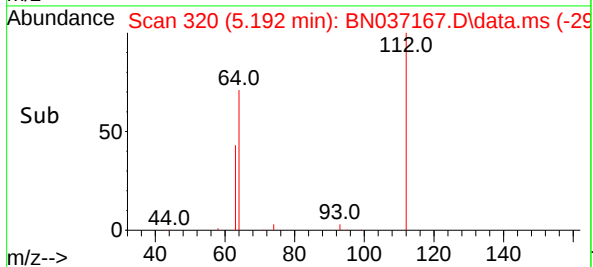
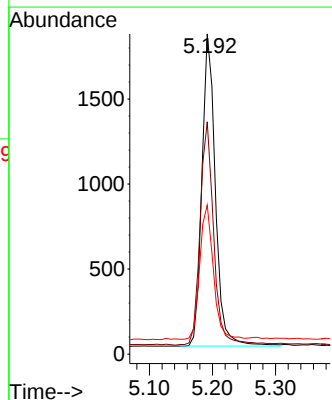
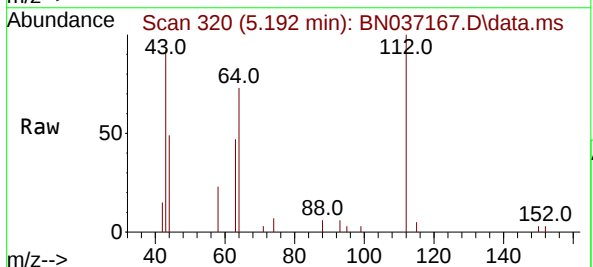
Instrument :  
BNA\_N  
ClientSampleId :  
PB168238BL

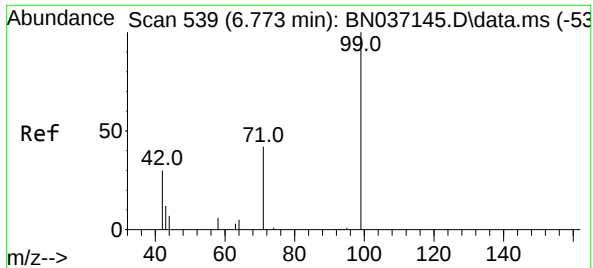
Tgt Ion:152 Resp: 2941  
Ion Ratio Lower Upper  
152 100  
150 154.8 123.2 184.8  
115 68.8 56.6 85.0



#4  
2-Fluorophenol  
Concen: 0.373 ng  
RT: 5.192 min Scan# 320  
Delta R.T. 0.007 min  
Lab File: BN037167.D  
Acq: 04 Jun 2025 11:03

Tgt Ion:112 Resp: 2715  
Ion Ratio Lower Upper  
112 100  
64 72.9 56.3 84.5  
63 43.6 36.2 54.4

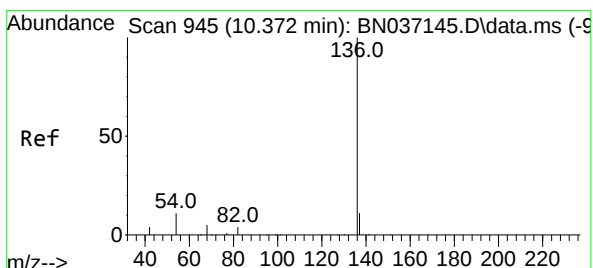
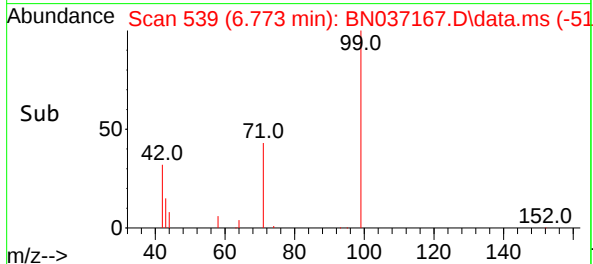
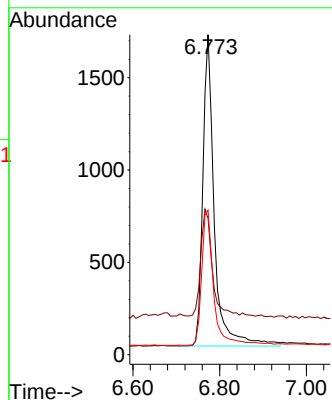
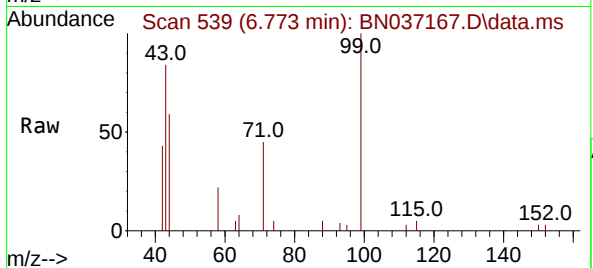




#5  
Phenol-d6  
Concen: 0.350 ng  
RT: 6.773 min Scan# 51  
Delta R.T. -0.000 min  
Lab File: BN037167.D  
Acq: 04 Jun 2025 11:03

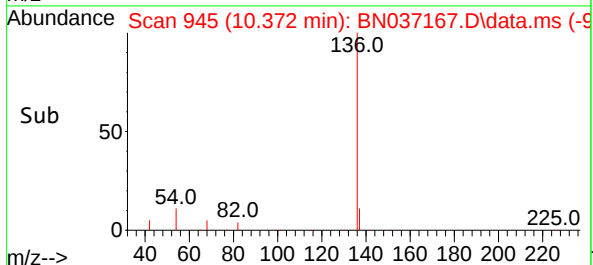
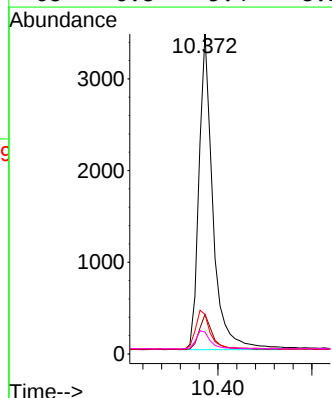
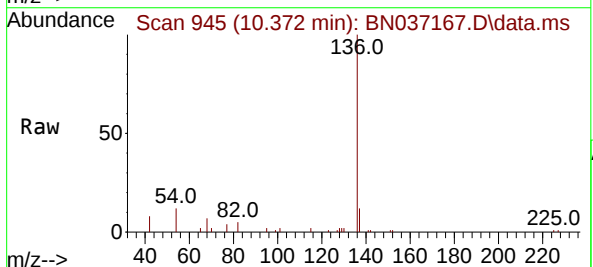
Instrument :  
BNA\_N  
ClientSampleId :  
PB168238BL

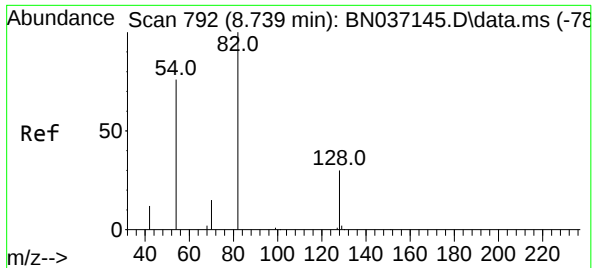
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 99    | Resp: | 3089  |
| Ion      | Ratio | Lower | Upper |
| 99       | 100   |       |       |
| 42       | 35.4  | 31.3  | 46.9  |
| 71       | 46.0  | 38.2  | 57.2  |



#7  
Naphthalene-d8  
Concen: 0.400 ng  
RT: 10.372 min Scan# 945  
Delta R.T. -0.000 min  
Lab File: BN037167.D  
Acq: 04 Jun 2025 11:03

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 136   | Resp: | 7107  |
| Ion      | Ratio | Lower | Upper |
| 136      | 100   |       |       |
| 137      | 12.3  | 9.7   | 14.5  |
| 54       | 12.3  | 9.7   | 14.5  |
| 68       | 6.8   | 5.4   | 8.2   |

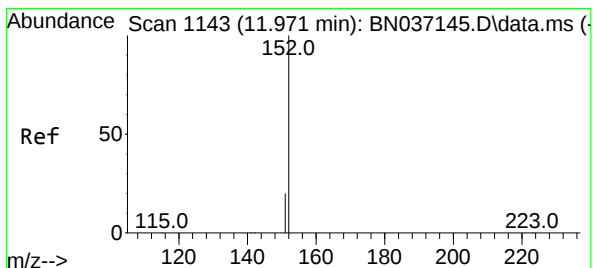
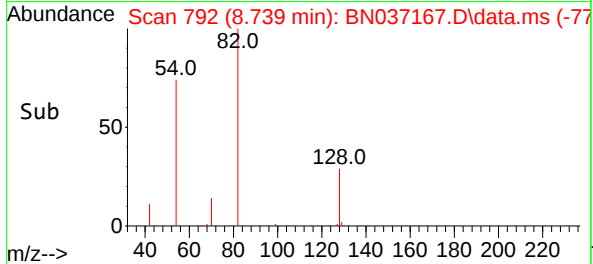
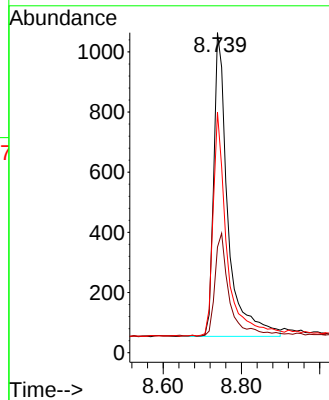
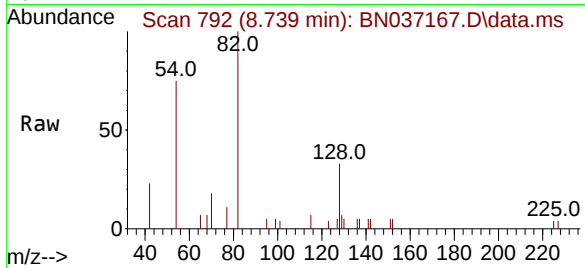




#8  
Nitrobenzene-d5  
Concen: 0.340 ng  
RT: 8.739 min Scan# 792  
Delta R.T. -0.000 min  
Lab File: BN037167.D  
Acq: 04 Jun 2025 11:03

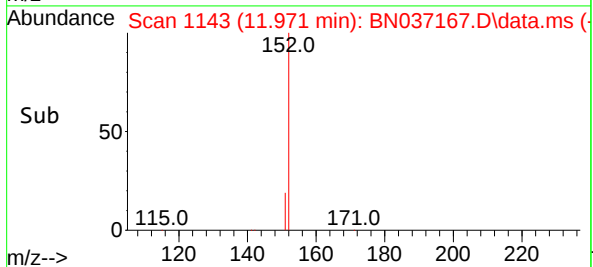
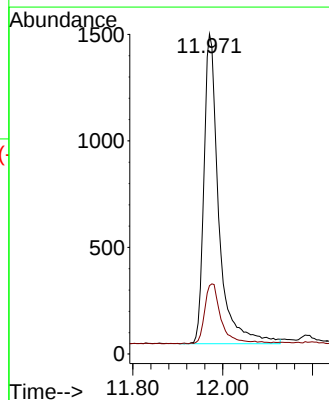
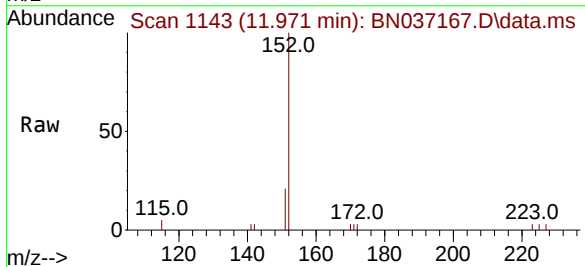
Instrument :  
BNA\_N  
ClientSampleId :  
PB168238BL

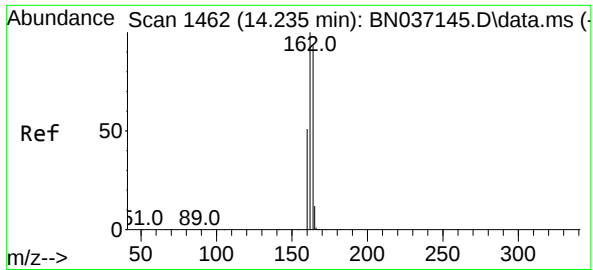
| Tgt Ion: | 82    | Resp: | 2547  |
|----------|-------|-------|-------|
| Ion      | Ratio | Lower | Upper |
| 82       | 100   |       |       |
| 128      | 33.0  | 26.9  | 40.3  |
| 54       | 75.1  | 61.4  | 92.2  |



#11  
2-Methylnaphthalene-d10  
Concen: 0.337 ng  
RT: 11.971 min Scan# 1143  
Delta R.T. -0.000 min  
Lab File: BN037167.D  
Acq: 04 Jun 2025 11:03

| Tgt Ion: | 152   | Resp: | 3335  |
|----------|-------|-------|-------|
| Ion      | Ratio | Lower | Upper |
| 152      | 100   |       |       |
| 151      | 20.9  | 17.1  | 25.7  |

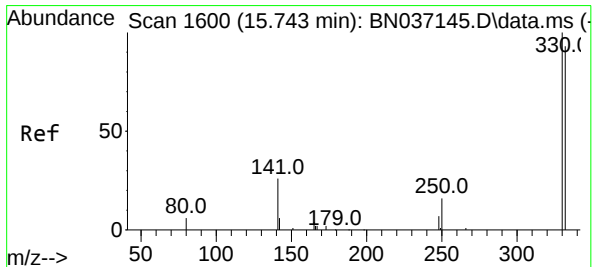
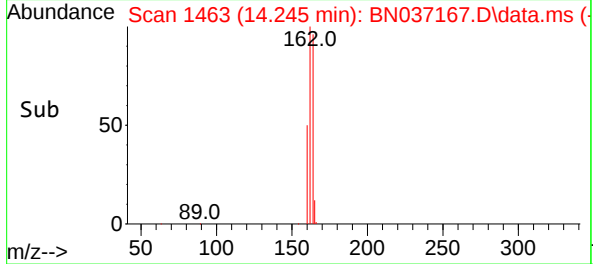
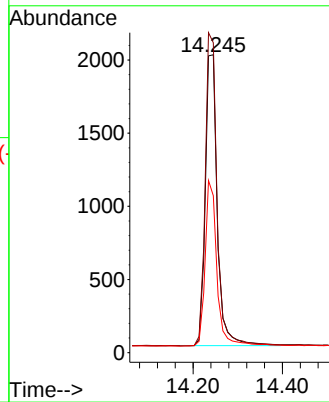
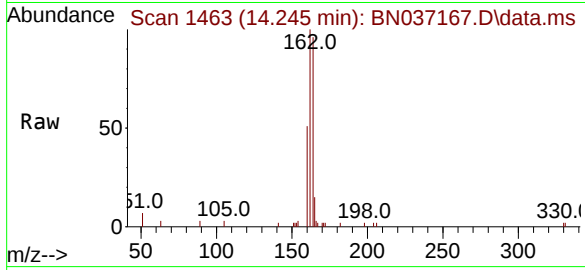




#13  
Acenaphthene-d10  
Concen: 0.400 ng  
RT: 14.245 min Scan# 1463  
Delta R.T. 0.011 min  
Lab File: BN037167.D  
Acq: 04 Jun 2025 11:03

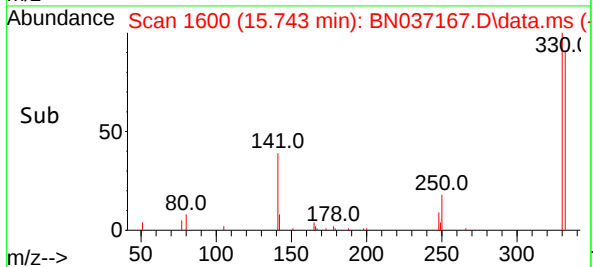
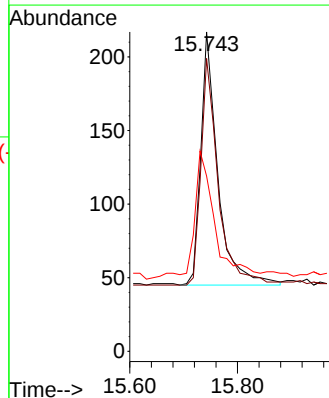
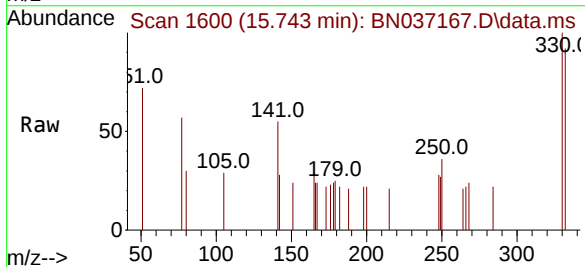
Instrument :  
BNA\_N  
ClientSampleId :  
PB168238BL

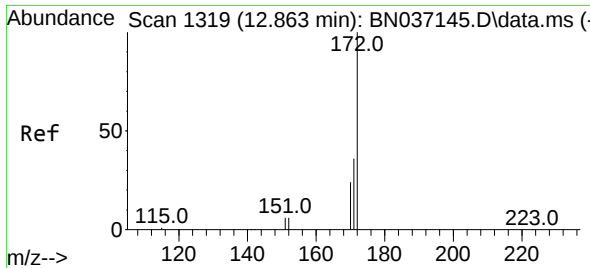
| Tgt Ion   | 164   | Resp: | 3690  |
|-----------|-------|-------|-------|
| Ion Ratio | Lower | Upper |       |
| 164       | 100   |       |       |
| 162       | 104.0 | 85.5  | 128.3 |
| 160       | 52.7  | 44.6  | 67.0  |



#14  
2,4,6-Tribromophenol  
Concen: 0.254 ng  
RT: 15.743 min Scan# 1600  
Delta R.T. -0.000 min  
Lab File: BN037167.D  
Acq: 04 Jun 2025 11:03

| Tgt Ion   | 330   | Resp: | 378   |
|-----------|-------|-------|-------|
| Ion Ratio | Lower | Upper |       |
| 330       | 100   |       |       |
| 332       | 90.7  | 77.1  | 115.7 |
| 141       | 61.9  | 46.4  | 69.6  |

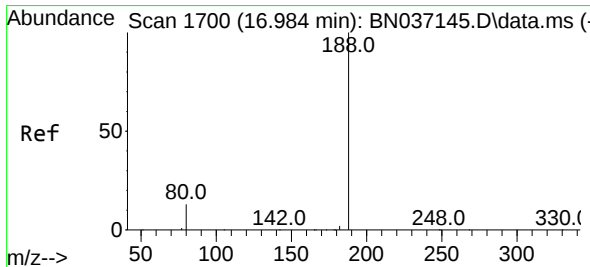
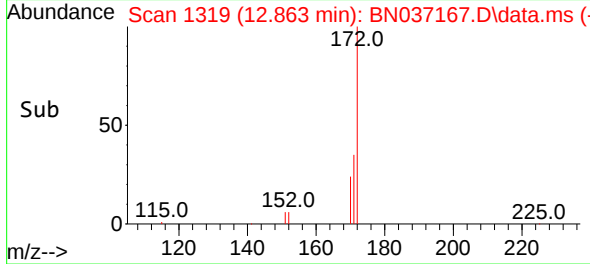
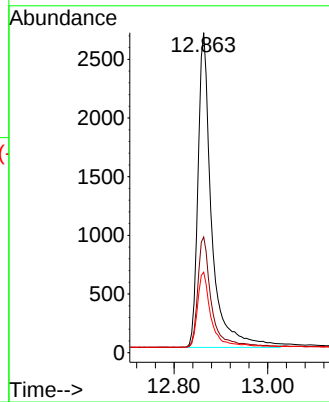
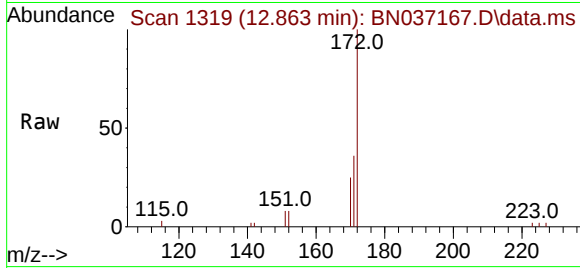




#15  
2-Fluorobiphenyl  
Concen: 0.363 ng  
RT: 12.863 min Scan# 11  
Delta R.T. -0.000 min  
Lab File: BN037167.D  
Acq: 04 Jun 2025 11:03

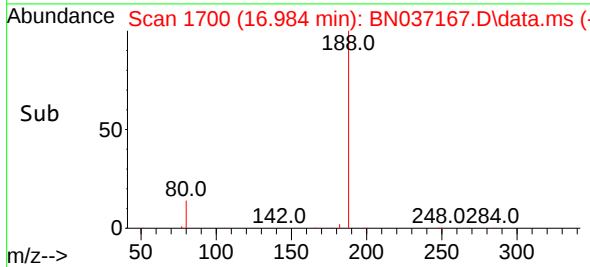
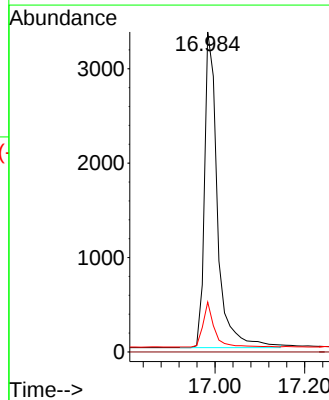
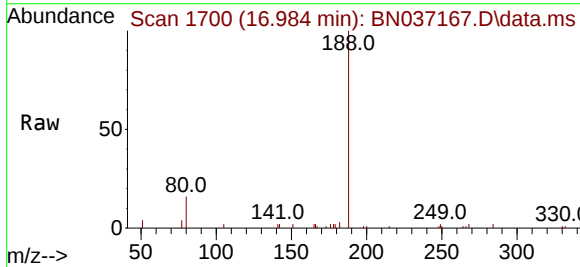
Instrument :  
BNA\_N  
ClientSampleId :  
PB168238BL

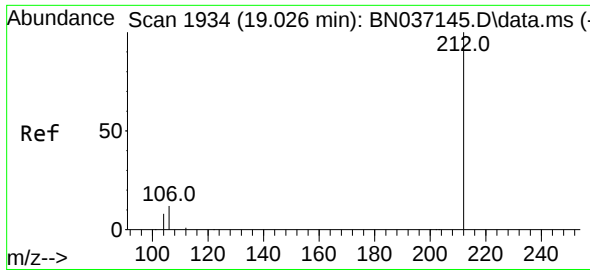
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 172     | 100   |       |       |
| 171     | 36.2  | 29.6  | 44.4  |
| 170     | 25.2  | 20.3  | 30.5  |



#19  
Phenanthrene-d10  
Concen: 0.400 ng  
RT: 16.984 min Scan# 1700  
Delta R.T. -0.000 min  
Lab File: BN037167.D  
Acq: 04 Jun 2025 11:03

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 188     | 100   |       |       |
| 94      | 0.0   | 0.0   | 0.0   |
| 80      | 15.6  | 11.3  | 16.9  |

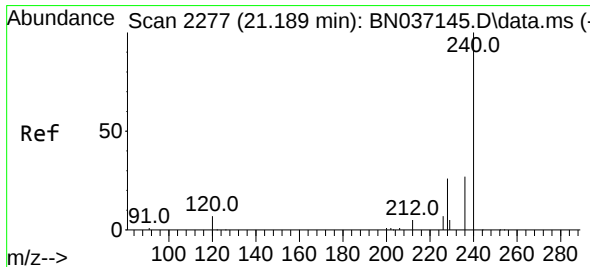
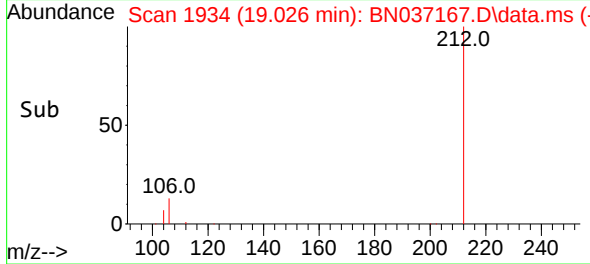
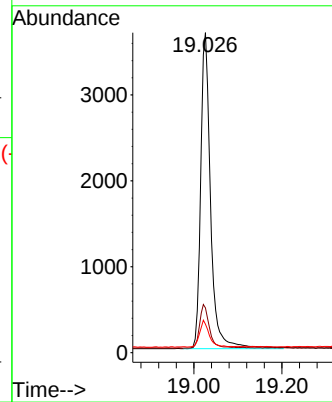
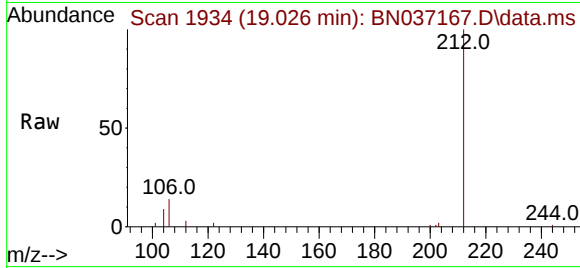




#27  
Fluoranthene-d10  
Concen: 0.335 ng  
RT: 19.026 min Scan# 1934  
Delta R.T. -0.000 min  
Lab File: BN037167.D  
Acq: 04 Jun 2025 11:03

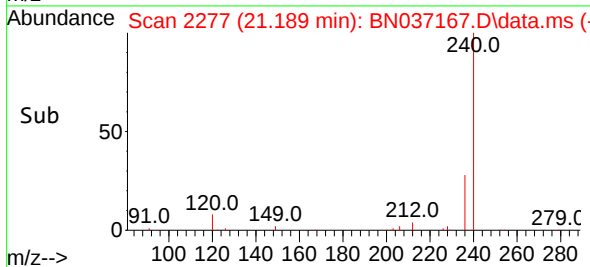
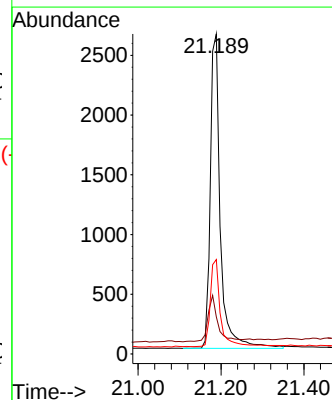
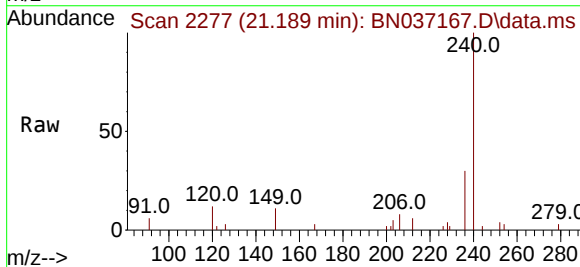
Instrument :  
BNA\_N  
ClientSampleId :  
PB168238BL

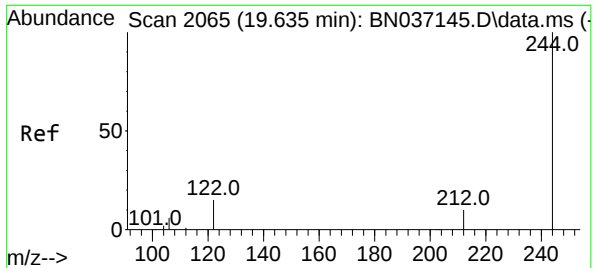
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 212     | 100   |       |       |
| 106     | 13.7  | 10.6  | 15.8  |
| 104     | 8.1   | 6.6   | 9.8   |



#29  
Chrysene-d12  
Concen: 0.400 ng  
RT: 21.189 min Scan# 2277  
Delta R.T. -0.000 min  
Lab File: BN037167.D  
Acq: 04 Jun 2025 11:03

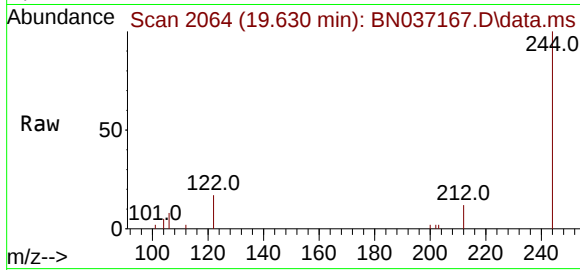
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 240     | 100   |       |       |
| 120     | 11.6  | 9.0   | 13.4  |
| 236     | 29.5  | 23.0  | 34.4  |



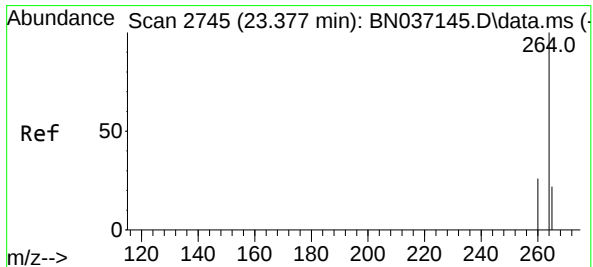
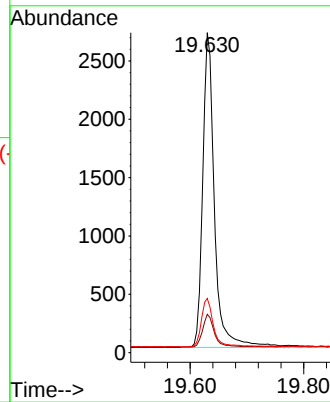
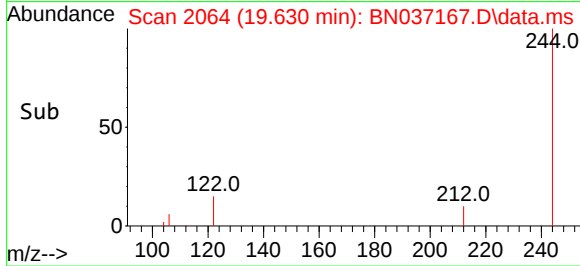


#31  
Terphenyl-d14  
Concen: 0.370 ng  
RT: 19.630 min Scan# 2065  
Delta R.T. -0.005 min  
Lab File: BN037167.D  
Acq: 04 Jun 2025 11:03

Instrument :  
BNA\_N  
ClientSampleId :  
PB168238BL

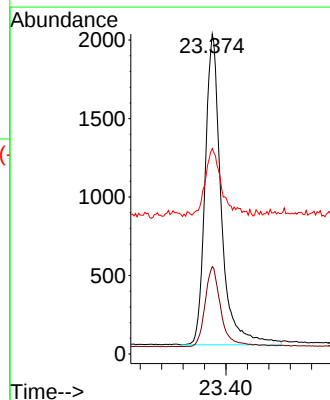
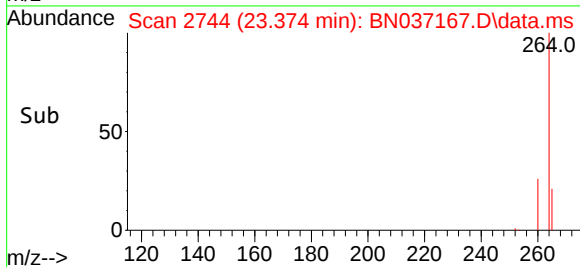
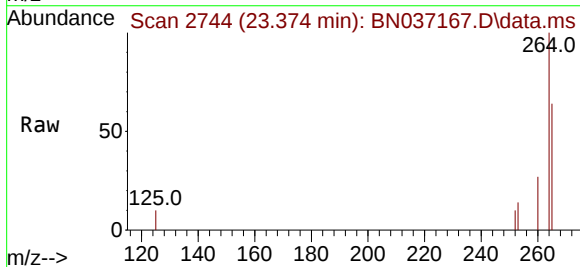


Tgt Ion:244 Resp: 3861  
Ion Ratio Lower Upper  
244 100  
212 12.0 10.0 15.0  
122 17.0 13.2 19.8



#35  
Perylene-d12  
Concen: 0.400 ng  
RT: 23.374 min Scan# 2744  
Delta R.T. -0.003 min  
Lab File: BN037167.D  
Acq: 04 Jun 2025 11:03

Tgt Ion:264 Resp: 4132  
Ion Ratio Lower Upper  
264 100  
260 27.3 22.1 33.1  
265 64.2 55.8 83.8



## Report of Analysis

|                    |                                        |                 |               |
|--------------------|----------------------------------------|-----------------|---------------|
| Client:            | Alliance Technical Group, LLC - Newark | Date Collected: |               |
| Project:           | NJ Waste Water PT                      | Date Received:  |               |
| Client Sample ID:  | PB168238BS                             | SDG No.:        | Q2181         |
| Lab Sample ID:     | PB168238BS                             | Matrix:         | Water         |
| Analytical Method: | SW8270ESIM                             | % Solid:        | 0             |
| Sample Wt/Vol:     | 1000 Units: mL                         | Final Vol:      | 1000 uL       |
| Soil Aliquot Vol:  | uL                                     | Test:           | SVOCMS Group5 |
| Extraction Type :  | Decanted : N                           | Level :         | LOW           |
| Injection Volume : | GPC Factor : 1.0                       | GPC Cleanup :   | N PH :        |
| Prep Method :      |                                        |                 |               |

|                   |           |                |                |               |
|-------------------|-----------|----------------|----------------|---------------|
| File ID/Qc Batch: | Dilution: | Prep Date      | Date Analyzed  | Prep Batch ID |
| BN037168.D        | 1         | 06/02/25 08:55 | 06/04/25 12:27 | PB168238      |

| CAS Number                | Parameter               | Conc. | Qualifier | MDL      | LOQ / CRQL | Units    |
|---------------------------|-------------------------|-------|-----------|----------|------------|----------|
| <b>TARGETS</b>            |                         |       |           |          |            |          |
| 208-96-8                  | Acenaphthylene          | 0.39  |           | 0.040    | 0.10       | ug/L     |
| <b>SURROGATES</b>         |                         |       |           |          |            |          |
| 7297-45-2                 | 2-Methylnaphthalene-d10 | 0.38  |           | 20 - 139 | 96%        | SPK: 0.4 |
| 93951-69-0                | Fluoranthene-d10        | 0.30  |           | 54 - 157 | 75%        | SPK: 0.4 |
| 4165-60-0                 | Nitrobenzene-d5         | 0.36  |           | 27 - 154 | 90%        | SPK: 0.4 |
| 321-60-8                  | 2-Fluorobiphenyl        | 0.36  |           | 30 - 155 | 90%        | SPK: 0.4 |
| 1718-51-0                 | Terphenyl-d14           | 0.37  |           | 54 - 175 | 93%        | SPK: 0.4 |
| <b>INTERNAL STANDARDS</b> |                         |       |           |          |            |          |
| 3855-82-1                 | 1,4-Dichlorobenzene-d4  | 2100  | 7.589     |          |            |          |
| 1146-65-2                 | Naphthalene-d8          | 5280  | 10.372    |          |            |          |
| 15067-26-2                | Acenaphthene-d10        | 2700  | 14.235    |          |            |          |
| 1517-22-2                 | Phenanthrene-d10        | 4610  | 16.984    |          |            |          |
| 1719-03-5                 | Chrysene-d12            | 2740  | 21.189    |          |            |          |
| 1520-96-3                 | Perylene-d12            | 2590  | 23.377    |          |            |          |

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\BN060425\  
 Data File : BN037168.D  
 Acq On : 04 Jun 2025 12:27  
 Operator : RC/JU  
 Sample : PB168238BS  
 Misc :  
 ALS Vial : 4 Sample Multiplier: 1

Instrument :  
 BNA\_N  
 ClientSampleId :  
 PB168238BS

Manual Integrations  
 APPROVED

Reviewed By :Rahul Chavli 06/04/2025  
 Supervised By :Jagrut Upadhyay 06/05/2025

Quant Time: Jun 04 12:59:08 2025  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\8270-SIM-BN060325.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Wed Jun 04 01:52:03 2025  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc  | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|-------|--------|----------|
| -----                         |        |      |          |       |        |          |
| Internal Standards            |        |      |          |       |        |          |
| 1) 1,4-Dichlorobenzene-d4     | 7.589  | 152  | 2103     | 0.400 | ng     | 0.00     |
| 7) Naphthalene-d8             | 10.372 | 136  | 5280     | 0.400 | ng     | 0.00     |
| 13) Acenaphthene-d10          | 14.235 | 164  | 2700     | 0.400 | ng     | 0.00     |
| 19) Phenanthrene-d10          | 16.984 | 188  | 4608     | 0.400 | ng     | 0.00     |
| 29) Chrysene-d12              | 21.189 | 240  | 2742     | 0.400 | ng     | 0.00     |
| 35) Perylene-d12              | 23.377 | 264  | 2588     | 0.400 | ng     | 0.00     |
|                               |        |      |          |       |        |          |
| System Monitoring Compounds   |        |      |          |       |        |          |
| 4) 2-Fluorophenol             | 5.184  | 112  | 1971     | 0.379 | ng     | 0.00     |
| 5) Phenol-d6                  | 6.766  | 99   | 2258     | 0.358 | ng     | 0.00     |
| 8) Nitrobenzene-d5            | 8.739  | 82   | 1999     | 0.359 | ng     | 0.00     |
| 11) 2-Methylnaphthalene-d10   | 11.966 | 152  | 2814m    | 0.383 | ng     | 0.00     |
| 14) 2,4,6-Tribromophenol      | 15.743 | 330  | 327      | 0.301 | ng     | 0.00     |
| 15) 2-Fluorobiphenyl          | 12.858 | 172  | 4143     | 0.360 | ng     | 0.00     |
| 27) Fluoranthene-d10          | 19.026 | 212  | 3525     | 0.301 | ng     | 0.00     |
| 31) Terphenyl-d14             | 19.635 | 244  | 2396     | 0.371 | ng     | 0.00     |
|                               |        |      |          |       |        |          |
| Target Compounds              |        |      |          |       | Qvalue |          |
| 2) 1,4-Dioxane                | 3.119  | 88   | 1225     | 0.437 | ng     | # 34     |
| 3) n-Nitrosodimethylamine     | 3.429  | 42   | 2034     | 0.361 | ng     | # 99     |
| 6) bis(2-Chloroethyl)ether    | 7.019  | 93   | 2059     | 0.342 | ng     | 95       |
| 9) Naphthalene                | 10.415 | 128  | 5371     | 0.353 | ng     | 99       |
| 10) Hexachlorobutadiene       | 10.714 | 225  | 1191     | 0.359 | ng     | # 99     |
| 12) 2-Methylnaphthalene       | 12.042 | 142  | 3098     | 0.317 | ng     | 98       |
| 16) Acenaphthylene            | 13.957 | 152  | 5187     | 0.392 | ng     | 99       |
| 17) Acenaphthene              | 14.299 | 154  | 3060     | 0.356 | ng     | 99       |
| 18) Fluorene                  | 15.293 | 166  | 3960     | 0.350 | ng     | 100      |
| 20) 4,6-Dinitro-2-methylph... | 15.389 | 198  | 344      | 0.529 | ng     | # 65     |
| 21) 4-Bromophenyl-phenylether | 16.189 | 248  | 1106     | 0.366 | ng     | 95       |
| 22) Hexachlorobenzene         | 16.301 | 284  | 1218     | 0.374 | ng     | 99       |
| 23) Atrazine                  | 16.462 | 200  | 831      | 0.333 | ng     | 98       |
| 24) Pentachlorophenol         | 16.649 | 266  | 740      | 0.594 | ng     | 95       |
| 25) Phenanthrene              | 17.033 | 178  | 5935     | 0.398 | ng     | 100      |
| 26) Anthracene                | 17.120 | 178  | 5280     | 0.388 | ng     | 99       |
| 28) Fluoranthene              | 19.054 | 202  | 5692     | 0.345 | ng     | 99       |
| 30) Pyrene                    | 19.421 | 202  | 5655     | 0.422 | ng     | 99       |
| 32) Benzo(a)anthracene        | 21.171 | 228  | 4122     | 0.415 | ng     | 99       |
| 33) Chrysene                  | 21.224 | 228  | 4550     | 0.412 | ng     | 100      |
| 34) Bis(2-ethylhexyl)phtha... | 21.117 | 149  | 2043     | 0.326 | ng     | 99       |
| 36) Indeno(1,2,3-cd)pyrene    | 25.573 | 276  | 4721     | 0.459 | ng     | 100      |
| 37) Benzo(b)fluoranthene      | 22.722 | 252  | 3986     | 0.382 | ng     | 97       |
| 38) Benzo(k)fluoranthene      | 22.766 | 252  | 4119     | 0.386 | ng     | 95       |
| 39) Benzo(a)pyrene            | 23.281 | 252  | 3570     | 0.408 | ng     | 95       |
| 40) Dibenzo(a,h)anthracene    | 25.588 | 278  | 3621     | 0.456 | ng     | 99       |
| 41) Benzo(g,h,i)perylene      | 26.240 | 276  | 3996     | 0.438 | ng     | 98       |

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

Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN060425\  
Data File : BN037168.D  
Acq On : 04 Jun 2025 12:27  
Operator : RC/JU  
Sample : PB168238BS  
Misc :  
ALS Vial : 4 Sample Multiplier: 1

## Instrument :

BNA\_N

## ClientSampleId :

PB168238BS

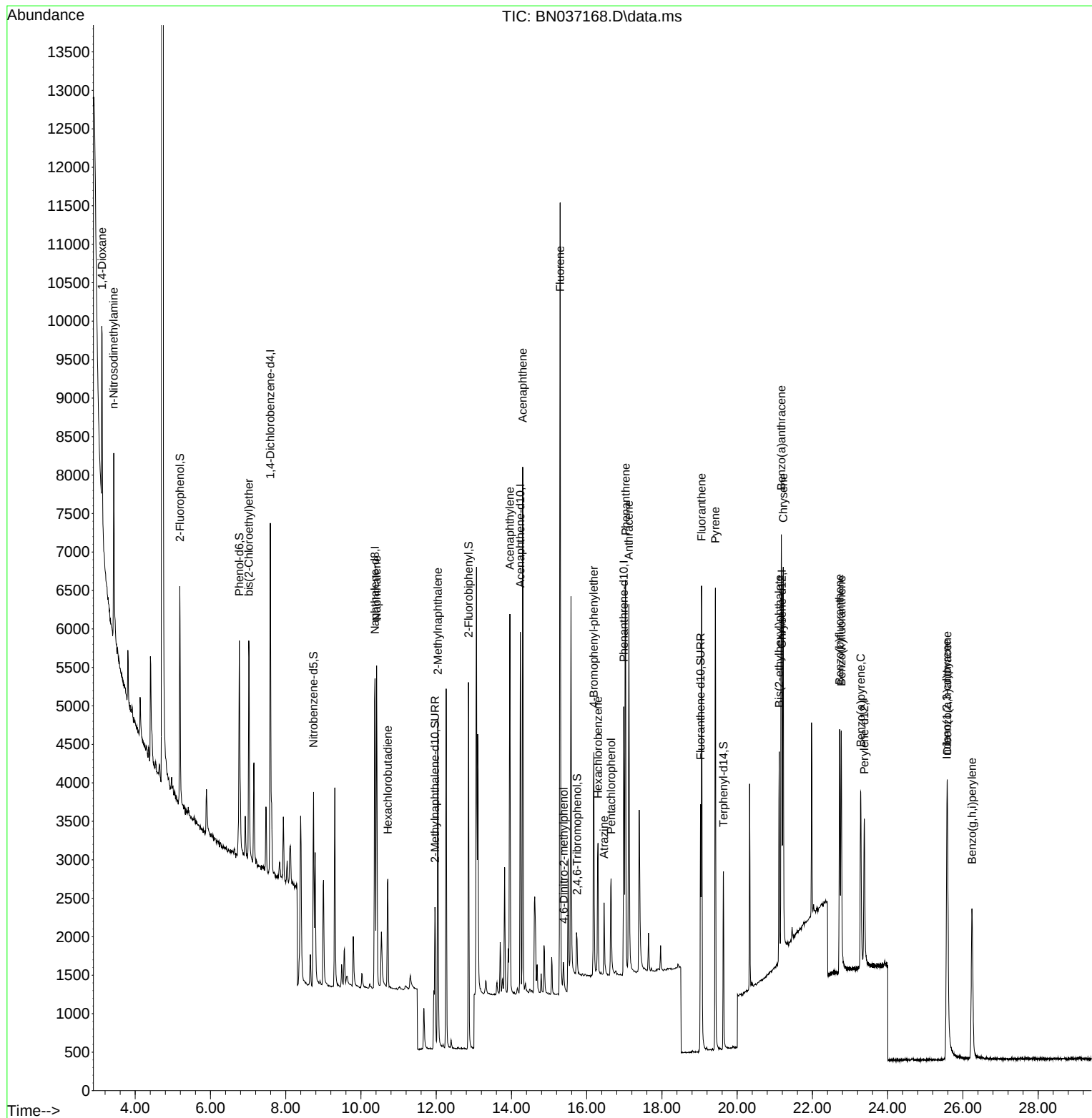
## Manual Integrations

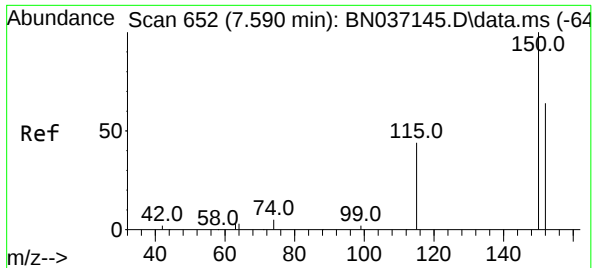
## APPROVED

Reviewed By :Rahul Chavli 06/04/2025

Supervised By :Jagrut Upadhyay 06/05/2025

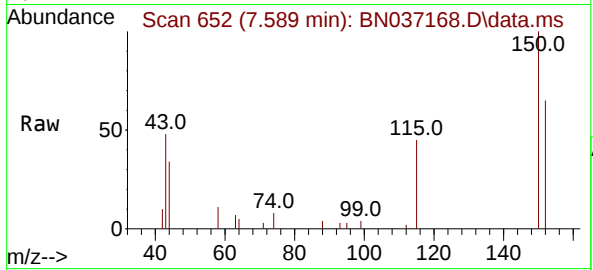
Quant Time: Jun 04 12:59:08 2025  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\8270-SIM-BN060325.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Wed Jun 04 01:52:03 2025  
Response via : Initial Calibration





#1  
1,4-Dichlorobenzene-d4  
Concen: 0.400 ng  
RT: 7.589 min Scan# 61  
Delta R.T. -0.001 min  
Lab File: BN037168.D  
Acq: 04 Jun 2025 12:27

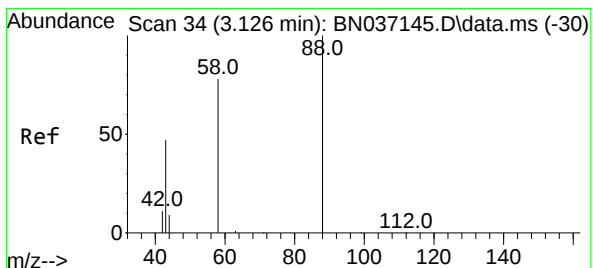
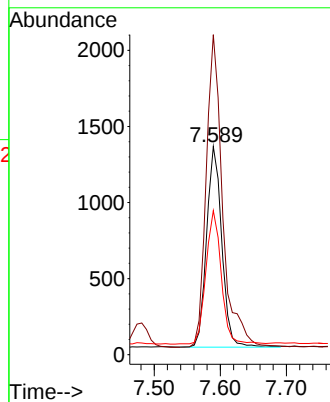
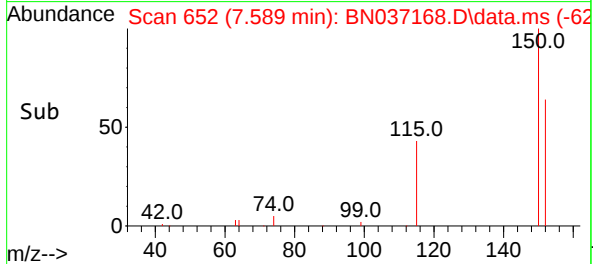
Instrument :  
BNA\_N  
ClientSampleId :  
PB168238BS



Tgt Ion: 152 Resp: 210  
Ion Ratio Lower Upper  
152 100  
150 153.7 123.2 184.8  
115 69.2 56.6 85.0

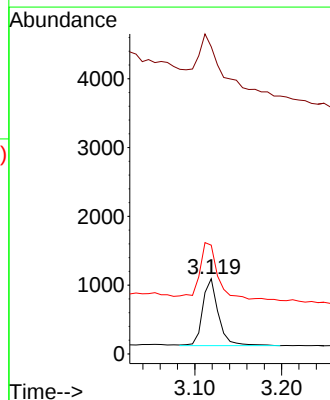
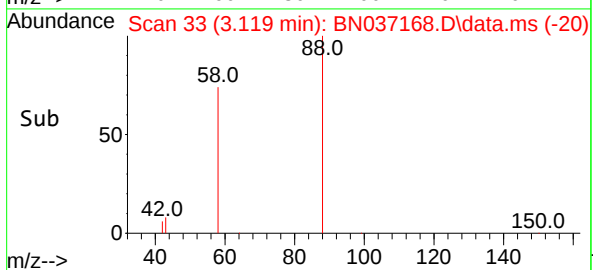
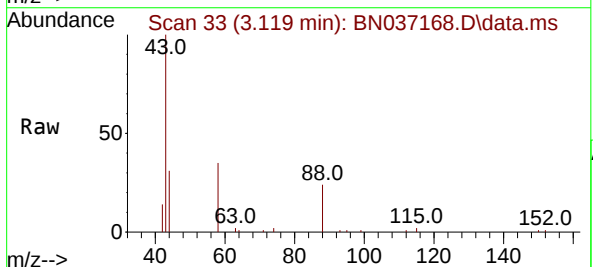
Manual Integrations  
APPROVED

Reviewed By :Rahul Chavli 06/04/2025  
Supervised By :Jagrut Upadhyay 06/05/2025

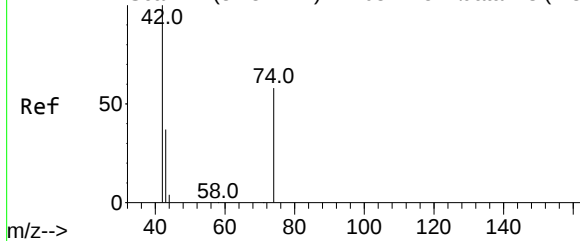


#2  
1,4-Dioxane  
Concen: 0.437 ng  
RT: 3.119 min Scan# 33  
Delta R.T. -0.007 min  
Lab File: BN037168.D  
Acq: 04 Jun 2025 12:27

Tgt Ion: 88 Resp: 1225  
Ion Ratio Lower Upper  
88 100  
43 149.7 43.5 65.3#  
58 105.1 67.7 101.5#



Abundance Scan 77 (3.437 min): BN037145.D\data.ms (-73)



#3

n-Nitrosodimethylamine

Concen: 0.361 ng

RT: 3.429 min Scan# 70

Delta R.T. -0.007 min

Lab File: BN037168.D

Acq: 04 Jun 2025 12:27

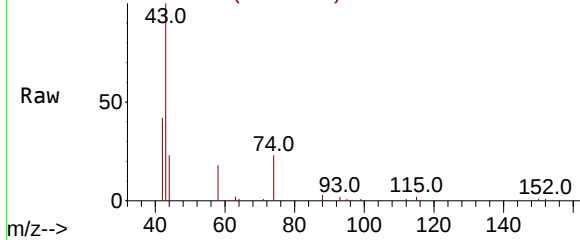
Instrument :

BNA\_N

ClientSampleId :

PB168238BS

Abundance Scan 76 (3.429 min): BN037168.D\data.ms



Tgt Ion: 42 Resp: 2034

Ion Ratio Lower Upper

42 100

74 66.5 53.0 79.4

44 10.6 5.9 8.9

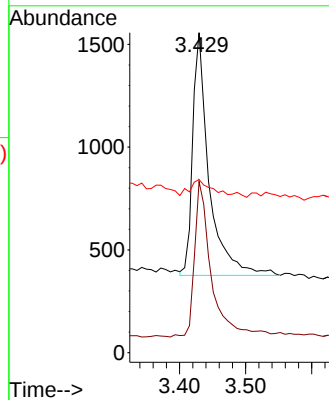
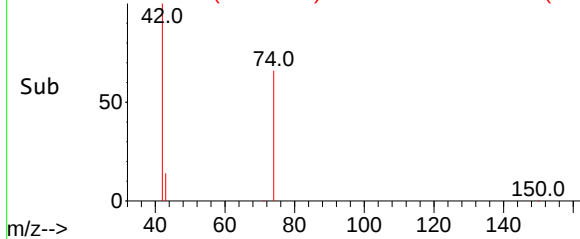
Manual Integrations

APPROVED

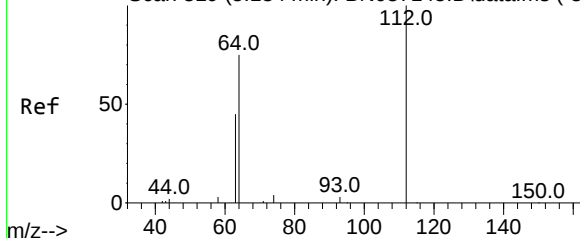
Reviewed By :Rahul Chavli 06/04/2025

Supervised By :Jagrut Upadhyay 06/05/2025

Abundance Scan 76 (3.429 min): BN037168.D\data.ms (-56)



Abundance Scan 319 (5.184 min): BN037145.D\data.ms (-31)



#4

2-Fluorophenol

Concen: 0.379 ng

RT: 5.184 min Scan# 319

Delta R.T. -0.000 min

Lab File: BN037168.D

Acq: 04 Jun 2025 12:27

Tgt Ion:112 Resp: 1971

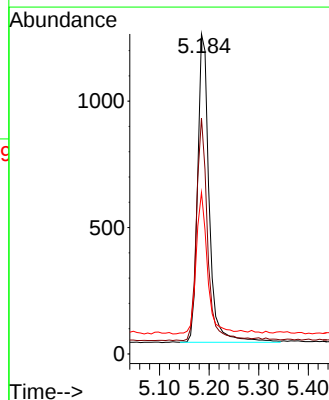
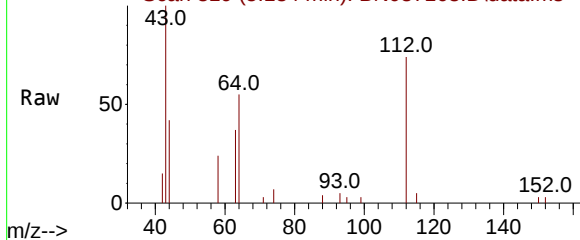
Ion Ratio Lower Upper

112 100

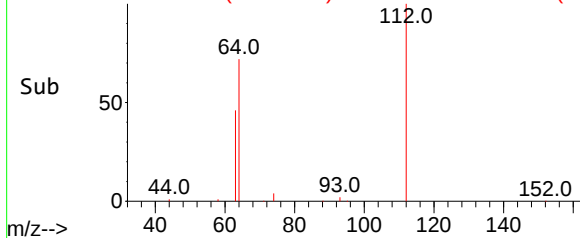
64 68.7 56.3 84.5

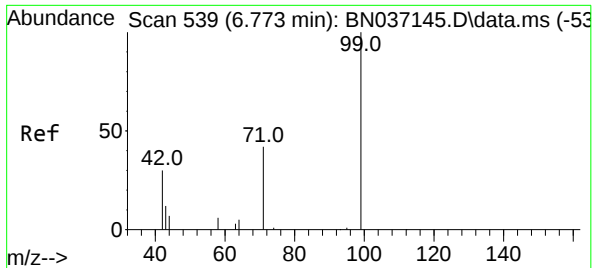
63 45.0 36.2 54.4

Abundance Scan 319 (5.184 min): BN037168.D\data.ms



Abundance Scan 319 (5.184 min): BN037168.D\data.ms (-29)





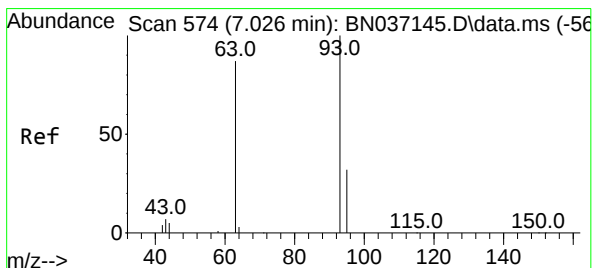
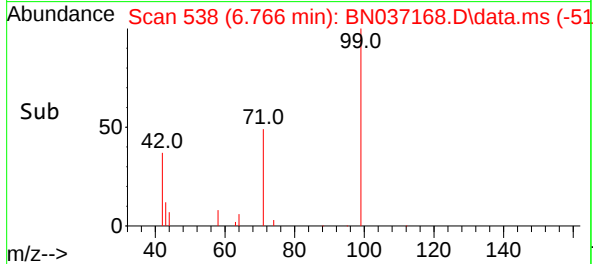
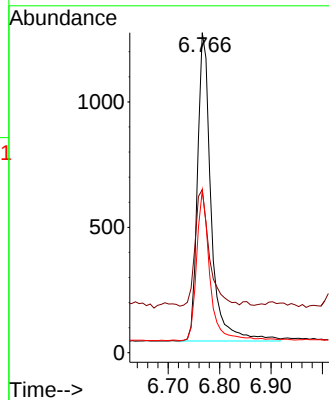
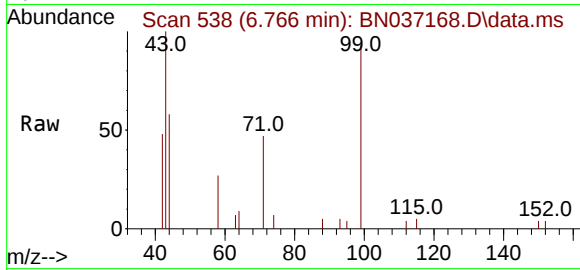
#5  
Phenol-d6  
Concen: 0.358 ng  
RT: 6.766 min Scan# 51  
Delta R.T. -0.007 min  
Lab File: BN037168.D  
Acq: 04 Jun 2025 12:27

Instrument :  
BNA\_N  
ClientSampleId :  
PB168238BS

Tgt Ion: 99 Resp: 225  
Ion Ratio Lower Upper  
99 100  
42 40.2 31.3 46.9  
71 47.8 38.2 57.2

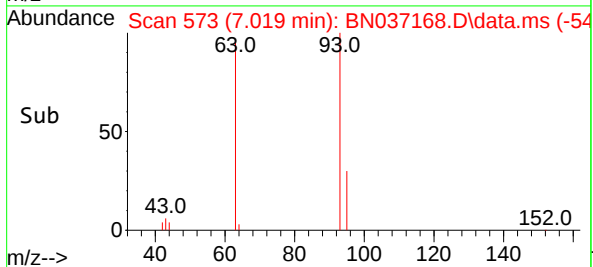
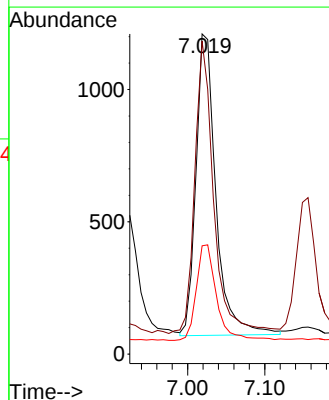
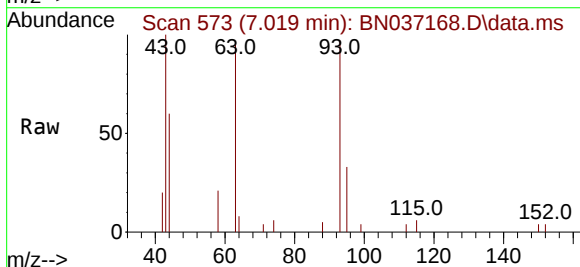
Manual Integrations  
APPROVED

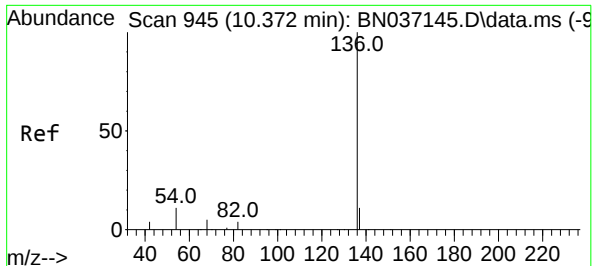
Reviewed By :Rahul Chavli 06/04/2025  
Supervised By :Jagrut Upadhyay 06/05/2025



#6  
bis(2-Chloroethyl)ether  
Concen: 0.342 ng  
RT: 7.019 min Scan# 573  
Delta R.T. -0.007 min  
Lab File: BN037168.D  
Acq: 04 Jun 2025 12:27

Tgt Ion: 93 Resp: 2059  
Ion Ratio Lower Upper  
93 100  
63 91.4 68.6 103.0  
95 32.1 24.3 36.5





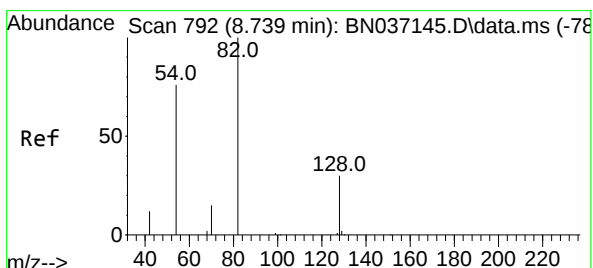
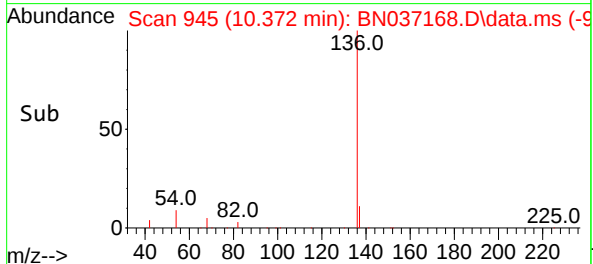
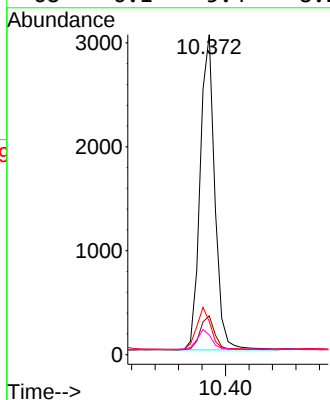
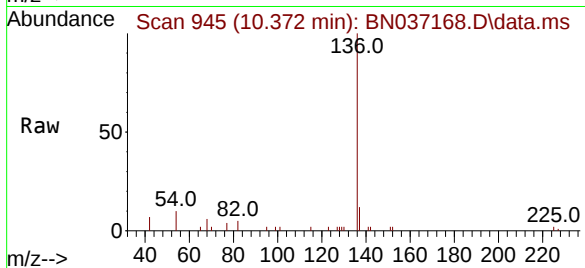
#7  
Naphthalene-d8  
Concen: 0.400 ng  
RT: 10.372 min Scan# 945  
Delta R.T. -0.000 min  
Lab File: BN037168.D  
Acq: 04 Jun 2025 12:27

Instrument :  
BNA\_N  
ClientSampleId :  
PB168238BS

|           |       |       |      |
|-----------|-------|-------|------|
| Tgt Ion:  | 136   | Resp: | 5280 |
| Ion Ratio | Lower | Upper |      |
| 136       | 100   |       |      |
| 137       | 12.2  | 9.7   | 14.5 |
| 54        | 10.4  | 9.7   | 14.5 |
| 68        | 6.1   | 5.4   | 8.2  |

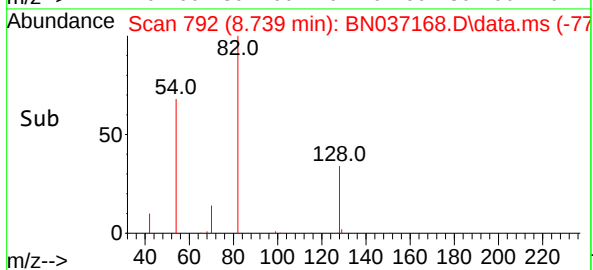
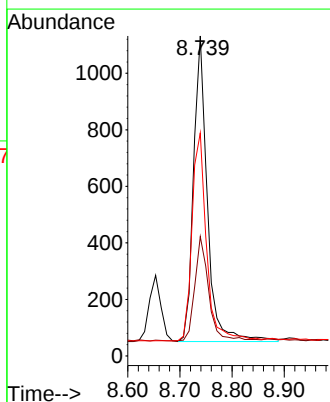
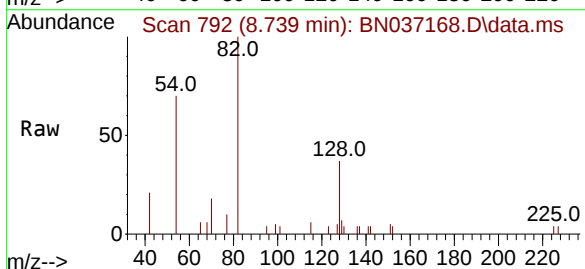
Manual Integrations  
APPROVED

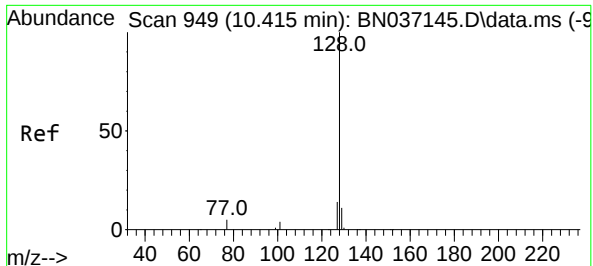
Reviewed By :Rahul Chavli 06/04/2025  
Supervised By :Jagrut Upadhyay 06/05/2025



#8  
Nitrobenzene-d5  
Concen: 0.359 ng  
RT: 8.739 min Scan# 792  
Delta R.T. -0.000 min  
Lab File: BN037168.D  
Acq: 04 Jun 2025 12:27

|           |       |       |      |
|-----------|-------|-------|------|
| Tgt Ion:  | 82    | Resp: | 1999 |
| Ion Ratio | Lower | Upper |      |
| 82        | 100   |       |      |
| 128       | 37.3  | 26.9  | 40.3 |
| 54        | 69.7  | 61.4  | 92.2 |





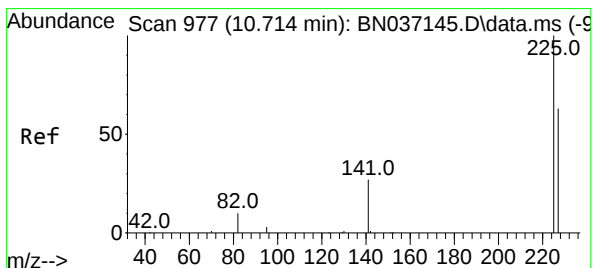
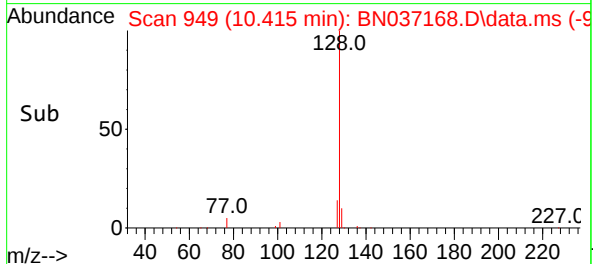
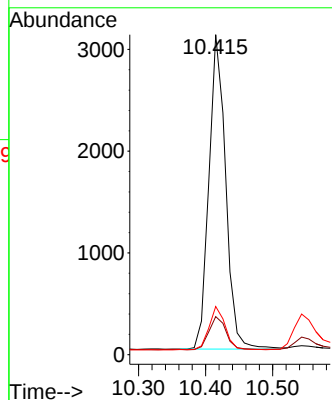
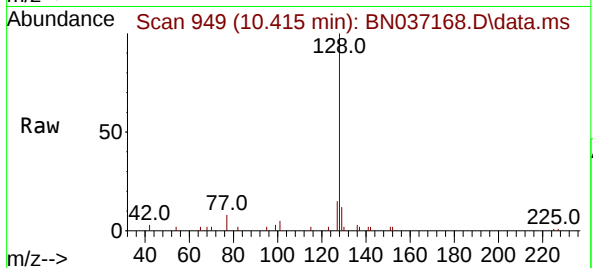
#9  
Naphthalene  
Concen: 0.353 ng  
RT: 10.415 min Scan# 949  
Delta R.T. -0.000 min  
Lab File: BN037168.D  
Acq: 04 Jun 2025 12:27

Instrument :  
BNA\_N  
ClientSampleId :  
PB168238BS

Tgt Ion:128 Resp: 537  
Ion Ratio Lower Upper  
128 100  
129 11.9 9.8 14.8  
127 15.0 12.3 18.5

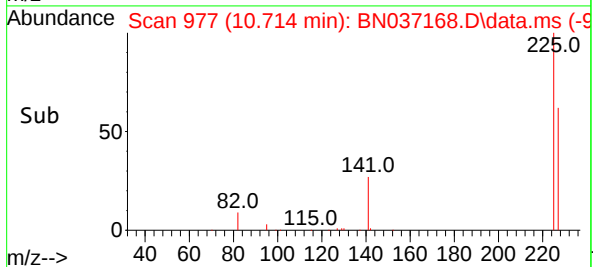
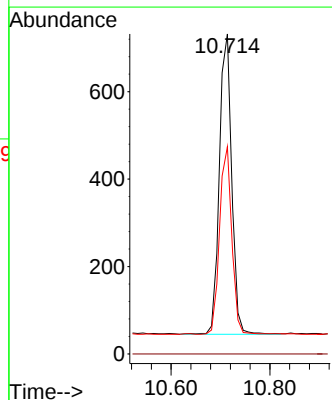
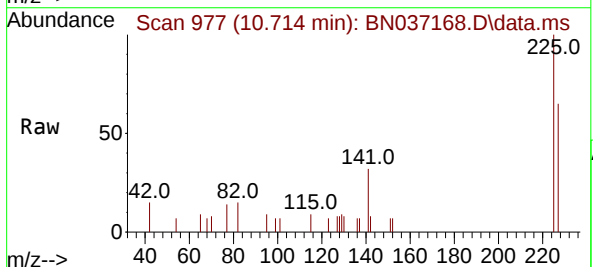
Manual Integrations  
APPROVED

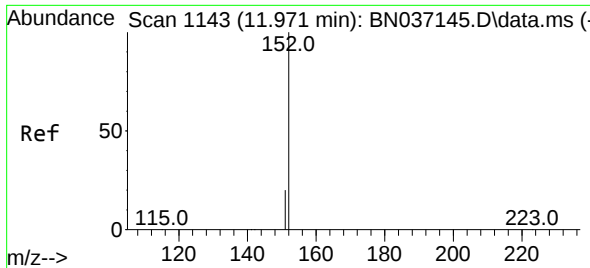
Reviewed By :Rahul Chavli 06/04/2025  
Supervised By :Jagrut Upadhyay 06/05/2025



#10  
Hexachlorobutadiene  
Concen: 0.359 ng  
RT: 10.714 min Scan# 977  
Delta R.T. -0.000 min  
Lab File: BN037168.D  
Acq: 04 Jun 2025 12:27

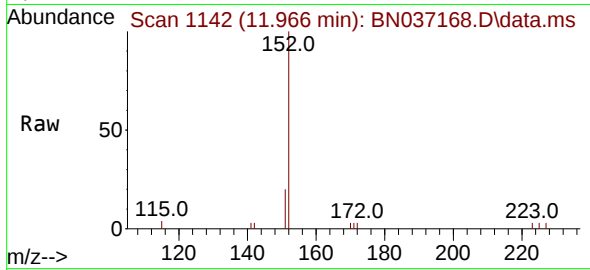
Tgt Ion:225 Resp: 1191  
Ion Ratio Lower Upper  
225 100  
223 0.0 0.0 0.0  
227 62.0 50.3 75.5





#11  
2-Methylnaphthalene-d10  
Concen: 0.383 ng m  
RT: 11.966 min Scan# 1143  
Delta R.T. -0.005 min  
Lab File: BN037168.D  
Acq: 04 Jun 2025 12:27

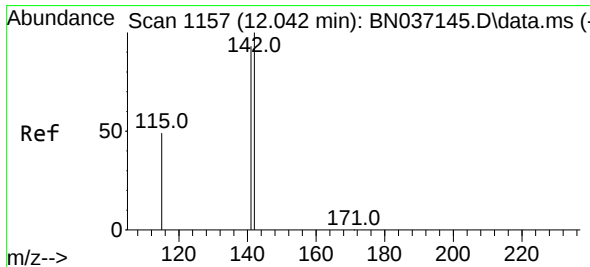
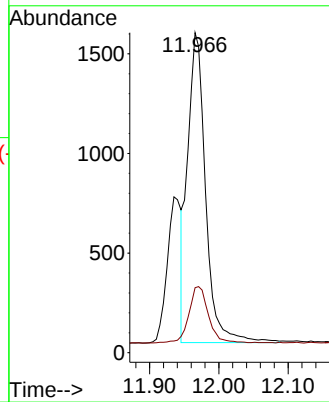
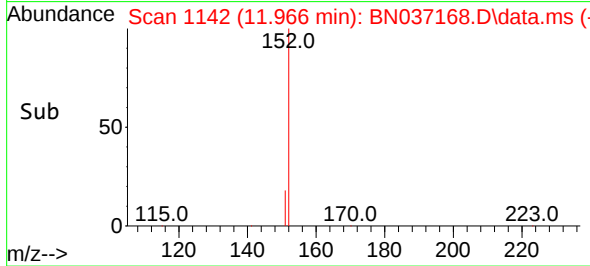
Instrument :  
BNA\_N  
ClientSampleId :  
PB168238BS



Tgt Ion:152 Resp: 2814  
Ion Ratio Lower Upper  
152 100  
151 20.1 17.1 25.7

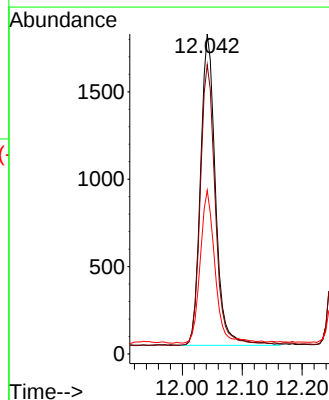
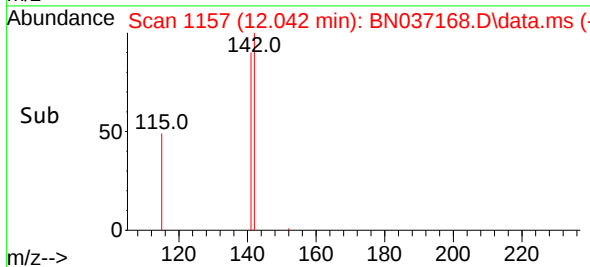
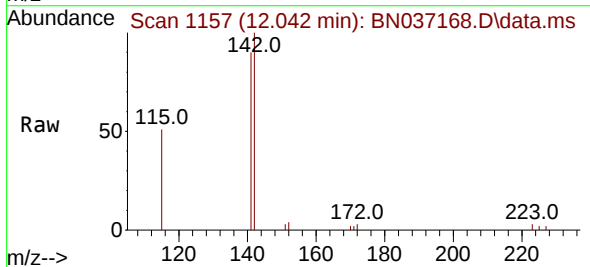
Manual Integrations  
APPROVED

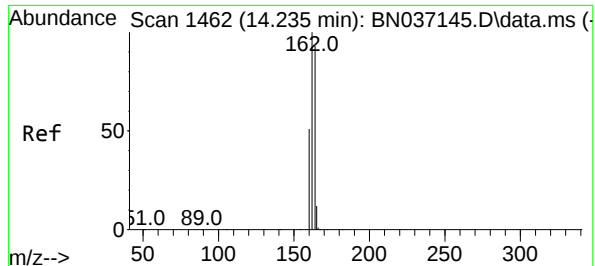
Reviewed By :Rahul Chavli 06/04/2025  
Supervised By :Jagrut Upadhyay 06/05/2025



#12  
2-Methylnaphthalene  
Concen: 0.317 ng  
RT: 12.042 min Scan# 1157  
Delta R.T. -0.000 min  
Lab File: BN037168.D  
Acq: 04 Jun 2025 12:27

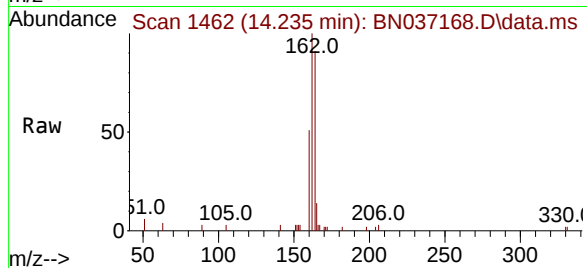
Tgt Ion:142 Resp: 3098  
Ion Ratio Lower Upper  
142 100  
141 90.4 74.6 111.8  
115 51.2 41.0 61.4





#13  
Acenaphthene-d10  
Concen: 0.400 ng  
RT: 14.235 min Scan# 1462  
Delta R.T. -0.000 min  
Lab File: BN037168.D  
Acq: 04 Jun 2025 12:27

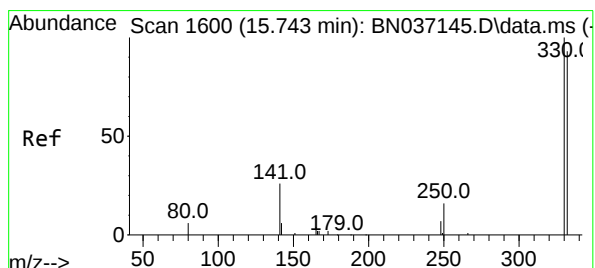
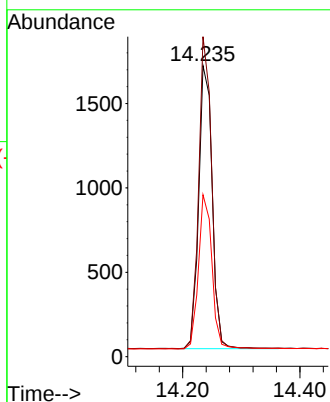
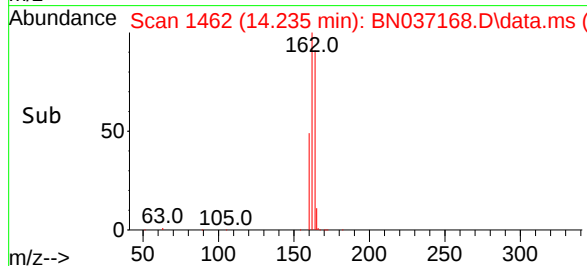
Instrument :  
BNA\_N  
ClientSampleId :  
PB168238BS



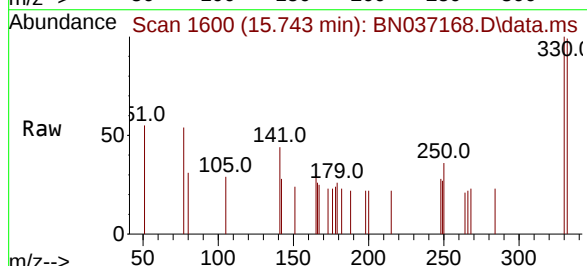
Tgt Ion:164 Resp: 2700  
Ion Ratio Lower Upper  
164 100  
162 110.0 85.5 128.3  
160 55.6 44.6 67.0

Manual Integrations  
APPROVED

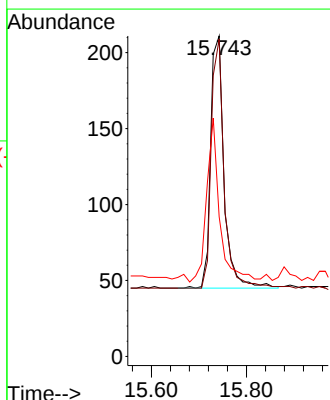
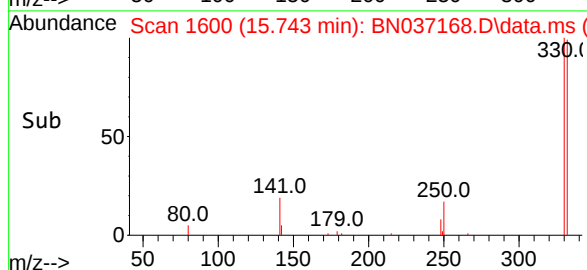
Reviewed By :Rahul Chavli 06/04/2025  
Supervised By :Jagrut Upadhyay 06/05/2025

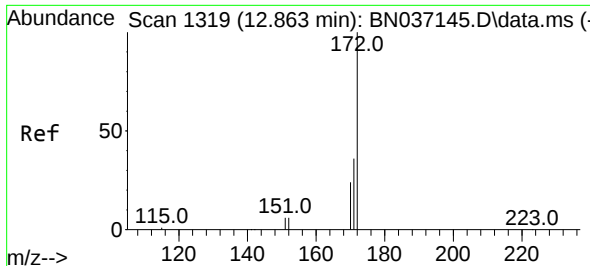


#14  
2,4,6-Tribromophenol  
Concen: 0.301 ng  
RT: 15.743 min Scan# 1600  
Delta R.T. -0.000 min  
Lab File: BN037168.D  
Acq: 04 Jun 2025 12:27



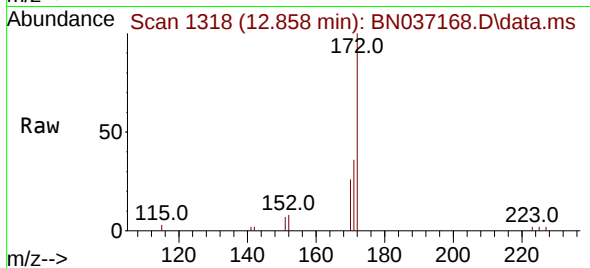
Tgt Ion:330 Resp: 327  
Ion Ratio Lower Upper  
330 100  
332 94.5 77.1 115.7  
141 58.4 46.4 69.6





#15  
2-Fluorobiphenyl  
Concen: 0.360 ng  
RT: 12.858 min Scan# 1318  
Delta R.T. -0.005 min  
Lab File: BN037168.D  
Acq: 04 Jun 2025 12:27

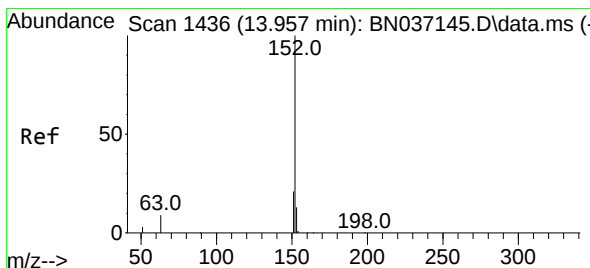
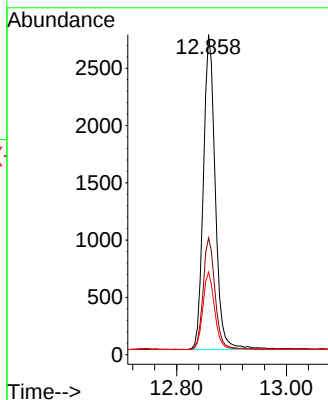
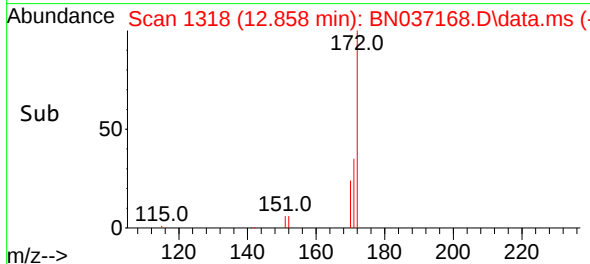
Instrument :  
BNA\_N  
ClientSampleId :  
PB168238BS



Tgt Ion:172 Resp: 414  
Ion Ratio Lower Upper  
172 100  
171 36.5 29.6 44.4  
170 25.8 20.3 30.5

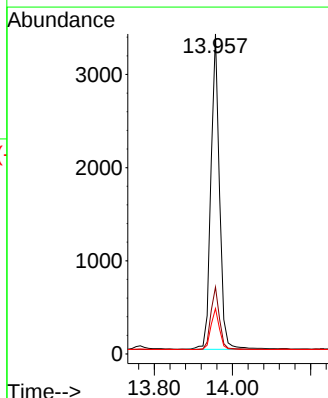
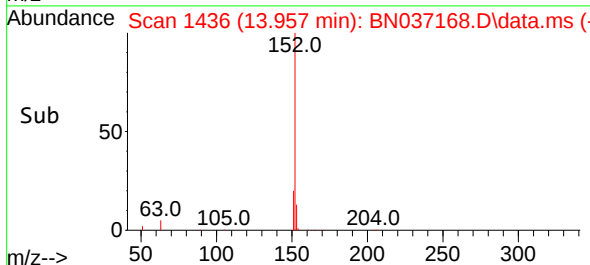
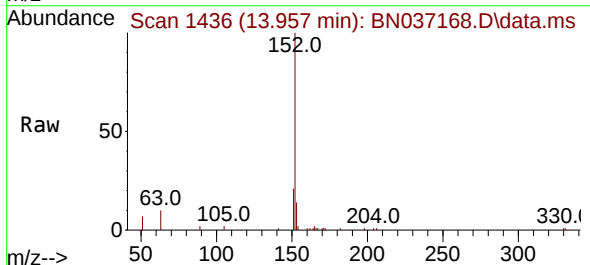
Manual Integrations  
APPROVED

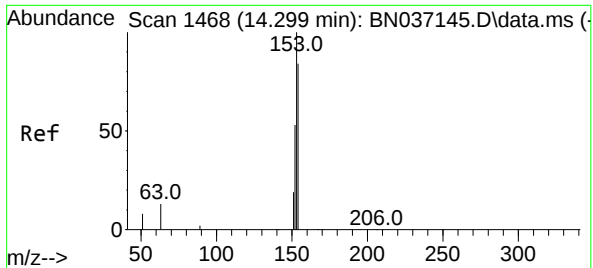
Reviewed By :Rahul Chavli 06/04/2025  
Supervised By :Jagrut Upadhyay 06/05/2025



#16  
Acenaphthylene  
Concen: 0.392 ng  
RT: 13.957 min Scan# 1436  
Delta R.T. -0.000 min  
Lab File: BN037168.D  
Acq: 04 Jun 2025 12:27

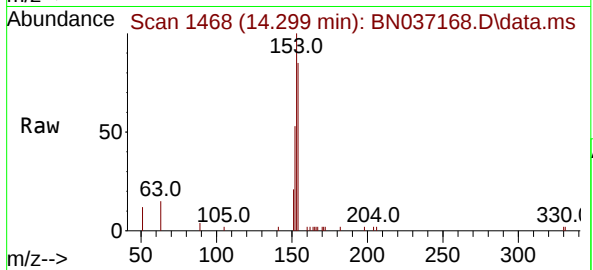
Tgt Ion:152 Resp: 5187  
Ion Ratio Lower Upper  
152 100  
151 19.8 16.3 24.5  
153 12.9 10.6 15.8





#17  
Acenaphthene  
Concen: 0.356 ng  
RT: 14.299 min Scan# 1468  
Delta R.T. -0.000 min  
Lab File: BN037168.D  
Acq: 04 Jun 2025 12:27

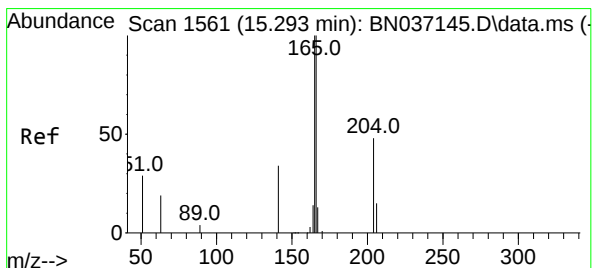
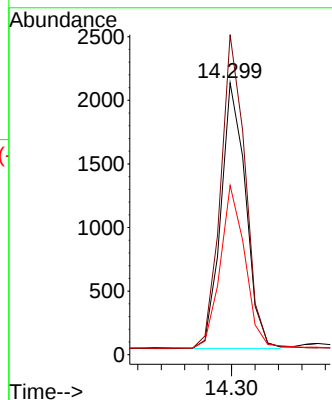
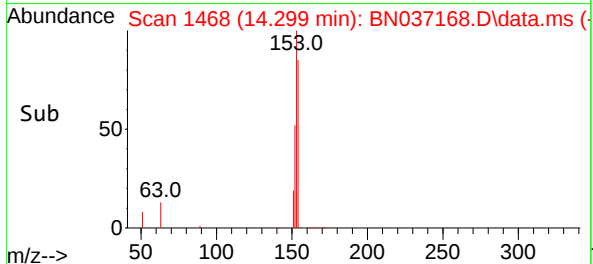
Instrument :  
BNA\_N  
ClientSampleId :  
PB168238BS



Tgt Ion:154 Resp: 3060  
Ion Ratio Lower Upper  
154 100  
153 117.9 93.8 140.8  
152 61.3 50.5 75.7

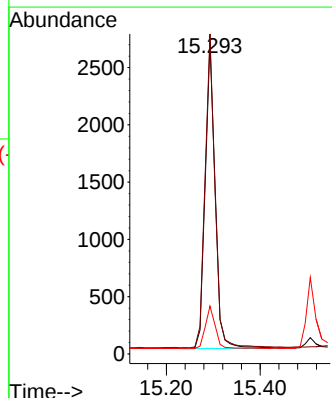
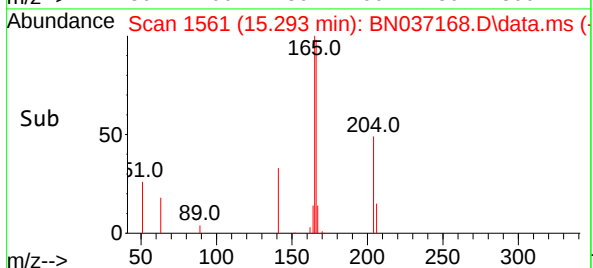
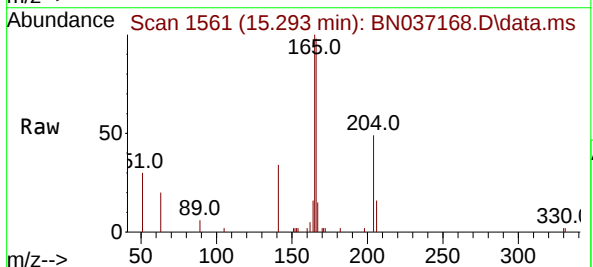
Manual Integrations  
**APPROVED**

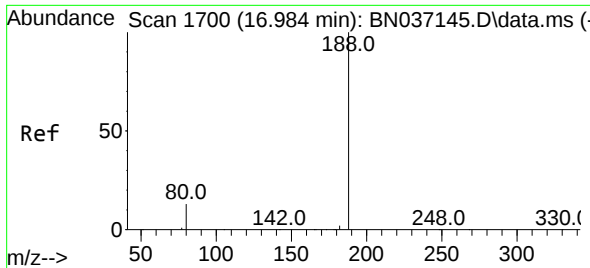
Reviewed By :Rahul Chavli 06/04/2025  
Supervised By :Jagrut Upadhyay 06/05/2025



#18  
Fluorene  
Concen: 0.350 ng  
RT: 15.293 min Scan# 1561  
Delta R.T. -0.000 min  
Lab File: BN037168.D  
Acq: 04 Jun 2025 12:27

Tgt Ion:166 Resp: 3960  
Ion Ratio Lower Upper  
166 100  
165 101.1 81.1 121.7  
167 14.2 10.8 16.2





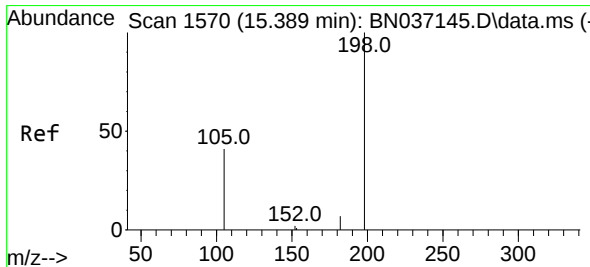
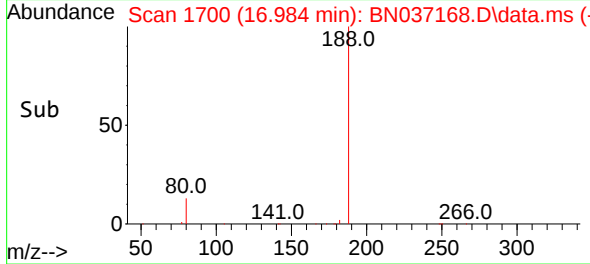
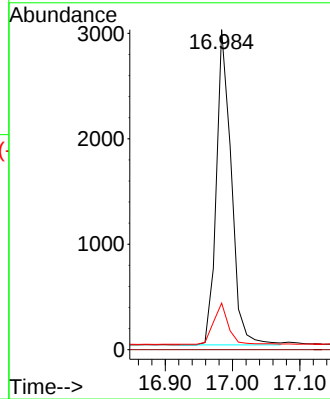
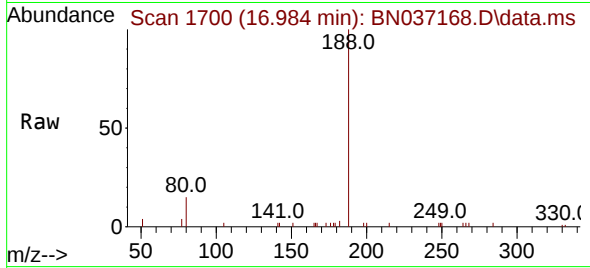
#19  
Phenanthrene-d10  
Concen: 0.400 ng  
RT: 16.984 min Scan# 1700  
Delta R.T. -0.000 min  
Lab File: BN037168.D  
Acq: 04 Jun 2025 12:27

Instrument :  
BNA\_N  
ClientSampleId :  
PB168238BS

Tgt Ion:188 Resp: 4608  
Ion Ratio Lower Upper  
188 100  
94 0.0 0.0 0.0  
80 14.5 11.3 16.9

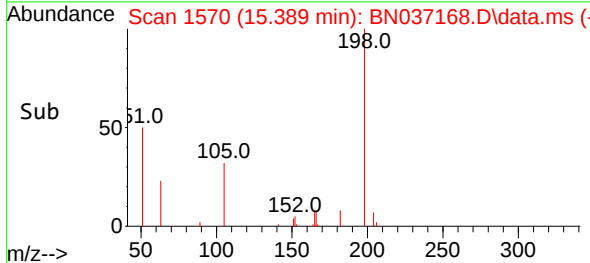
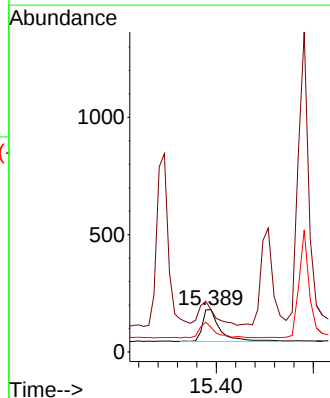
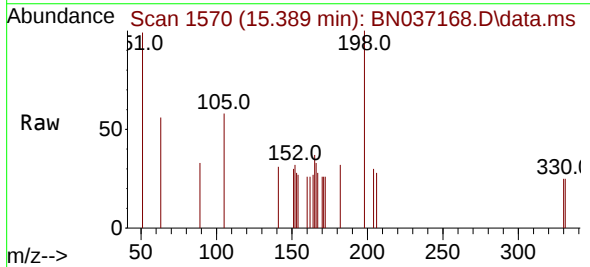
Manual Integrations  
APPROVED

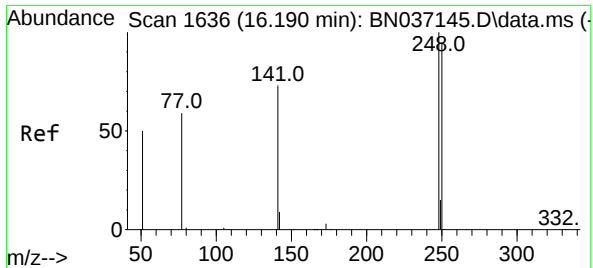
Reviewed By :Rahul Chavli 06/04/2025  
Supervised By :Jagrut Upadhyay 06/05/2025



#20  
4,6-Dinitro-2-methylphenol  
Concen: 0.529 ng  
RT: 15.389 min Scan# 1570  
Delta R.T. 0.000 min  
Lab File: BN037168.D  
Acq: 04 Jun 2025 12:27

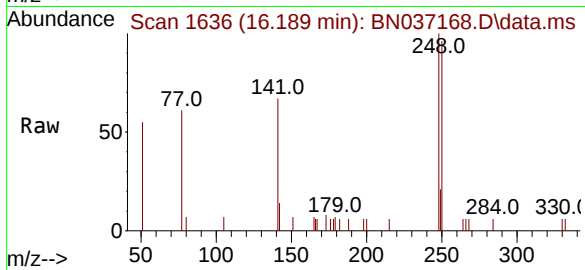
Tgt Ion:198 Resp: 344  
Ion Ratio Lower Upper  
198 100  
51 99.4 125.2 187.8#  
105 58.3 57.1 85.7





#21  
4-Bromophenyl-phenylether  
Concen: 0.366 ng  
RT: 16.189 min Scan# 1636  
Delta R.T. -0.000 min  
Lab File: BN037168.D  
Acq: 04 Jun 2025 12:27

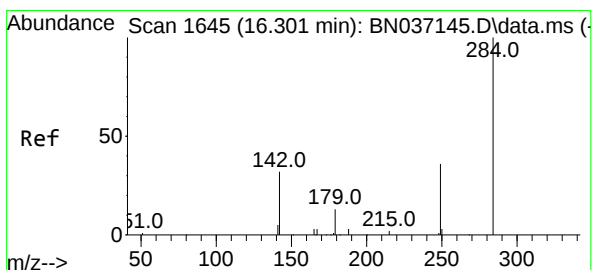
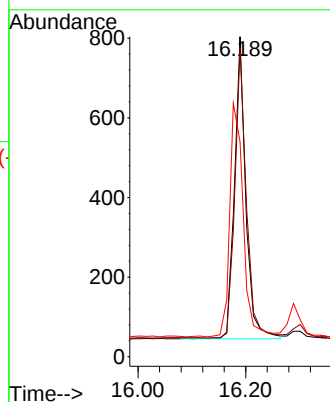
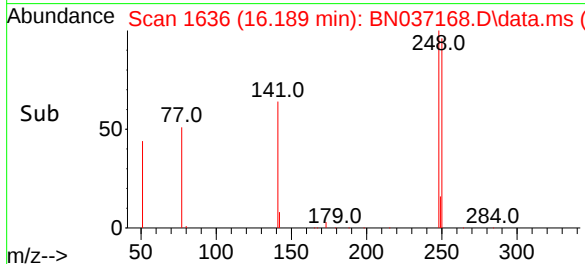
Instrument :  
BNA\_N  
ClientSampleId :  
PB168238BS



Tgt Ion:248 Resp: 1100  
Ion Ratio Lower Upper  
248 100  
250 96.4 76.1 114.1  
141 67.2 60.1 90.1

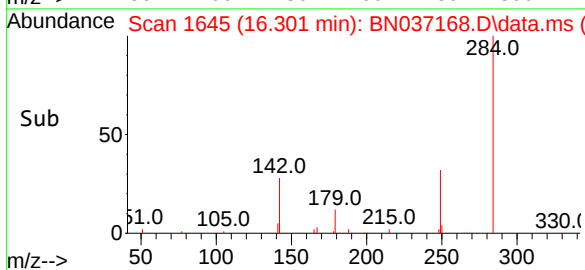
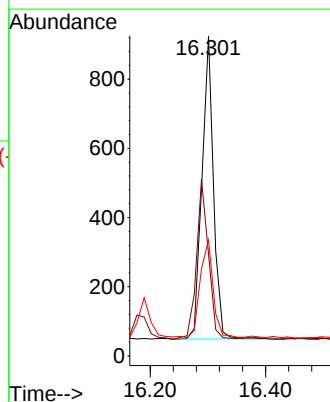
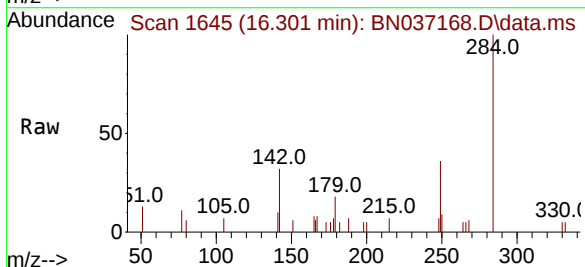
Manual Integrations  
APPROVED

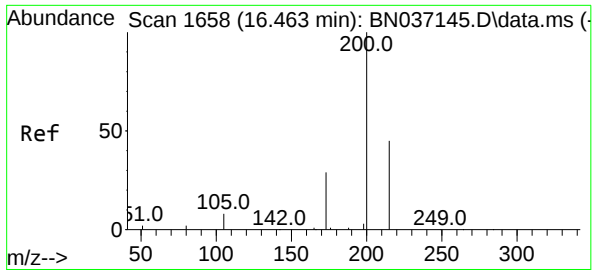
Reviewed By :Rahul Chavli 06/04/2025  
Supervised By :Jagrut Upadhyay 06/05/2025



#22  
Hexachlorobenzene  
Concen: 0.374 ng  
RT: 16.301 min Scan# 1645  
Delta R.T. -0.000 min  
Lab File: BN037168.D  
Acq: 04 Jun 2025 12:27

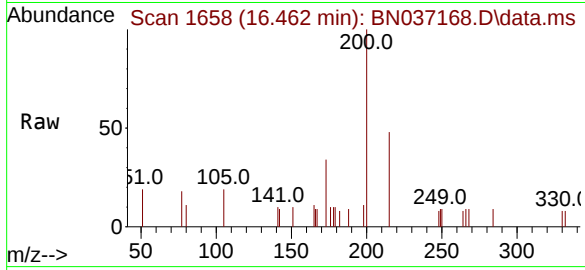
Tgt Ion:284 Resp: 1218  
Ion Ratio Lower Upper  
284 100  
142 54.6 44.0 66.0  
249 35.7 29.7 44.5





#23  
Atrazine  
Concen: 0.333 ng  
RT: 16.462 min Scan# 1658  
Delta R.T. -0.000 min  
Lab File: BN037168.D  
Acq: 04 Jun 2025 12:27

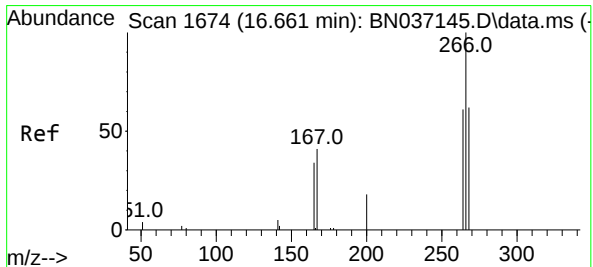
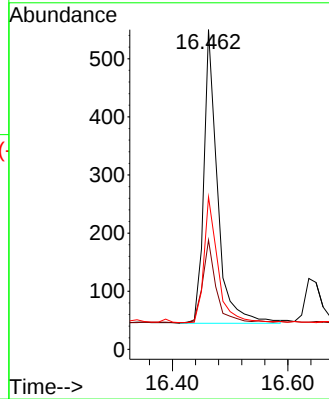
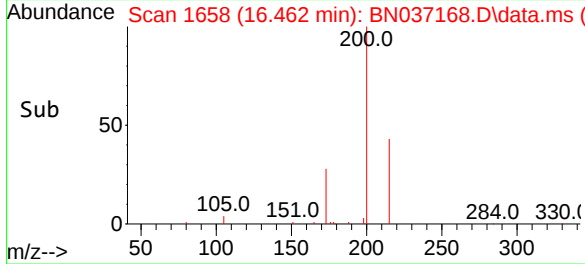
Instrument :  
BNA\_N  
ClientSampleId :  
PB168238BS



Tgt Ion:200 Resp: 83  
Ion Ratio Lower Upper  
200 100  
173 34.2 28.1 42.1  
215 47.6 39.3 58.9

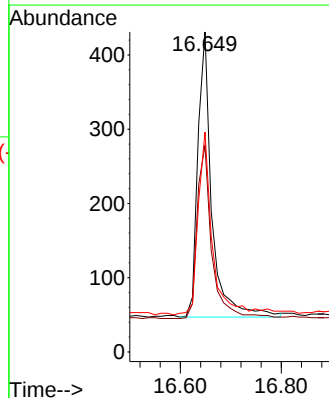
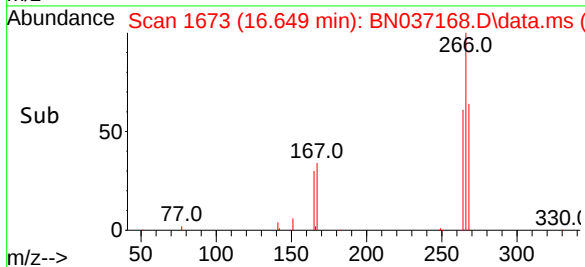
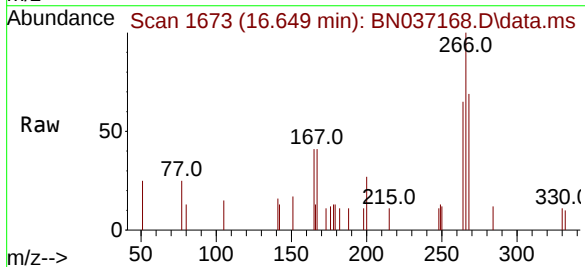
Manual Integrations  
APPROVED

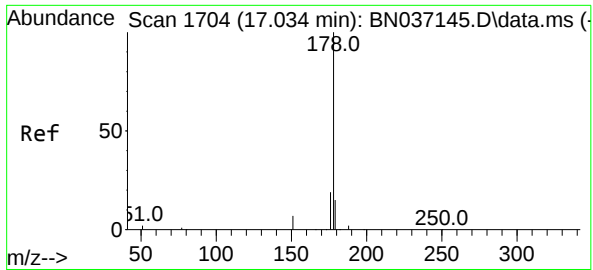
Reviewed By :Rahul Chavli 06/04/2025  
Supervised By :Jagrut Upadhyay 06/05/2025



#24  
Pentachlorophenol  
Concen: 0.594 ng  
RT: 16.649 min Scan# 1673  
Delta R.T. -0.012 min  
Lab File: BN037168.D  
Acq: 04 Jun 2025 12:27

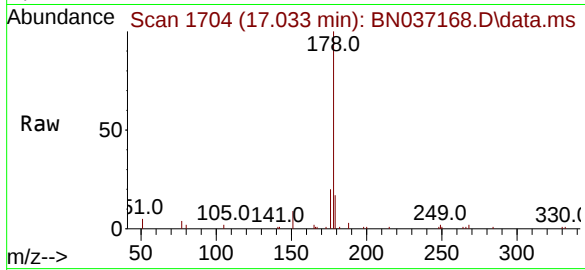
Tgt Ion:266 Resp: 740  
Ion Ratio Lower Upper  
266 100  
264 63.8 49.3 73.9  
268 66.6 49.0 73.4





#25  
Phenanthrene  
Concen: 0.398 ng  
RT: 17.033 min Scan# 1704  
Delta R.T. -0.000 min  
Lab File: BN037168.D  
Acq: 04 Jun 2025 12:27

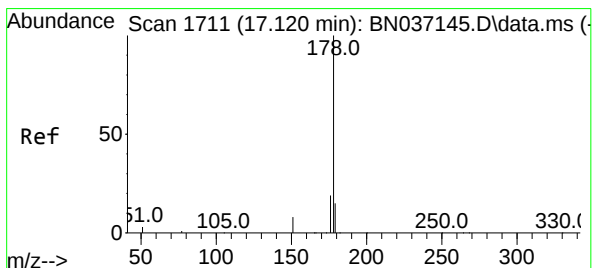
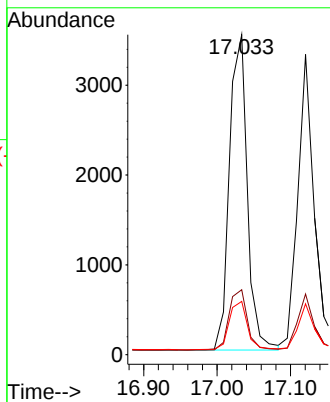
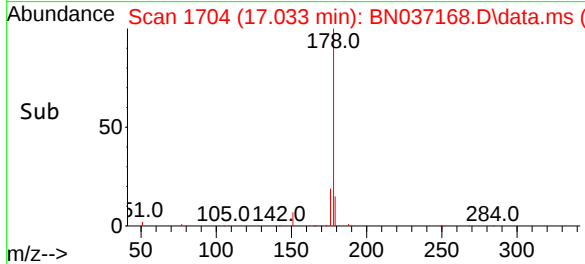
Instrument :  
BNA\_N  
ClientSampleId :  
PB168238BS



Tgt Ion:178 Resp: 593  
Ion Ratio Lower Upper  
178 100  
176 19.7 15.7 23.5  
179 15.6 12.3 18.5

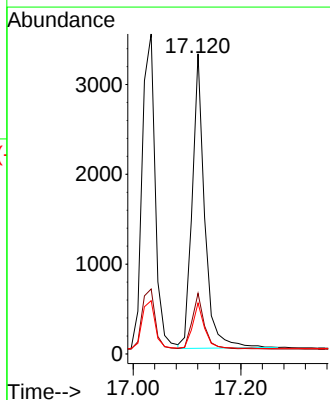
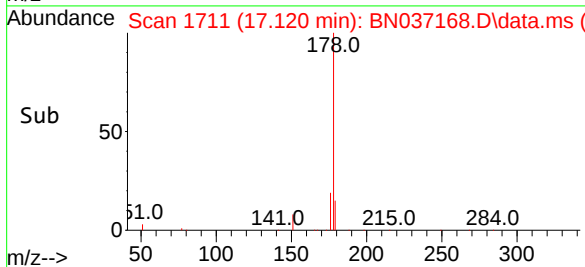
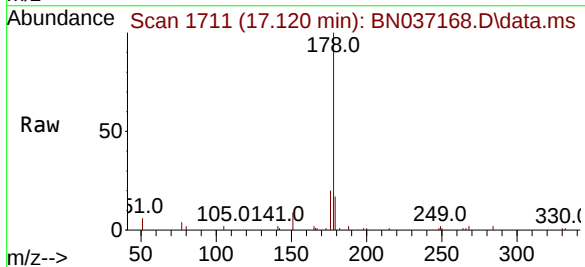
Manual Integrations  
APPROVED

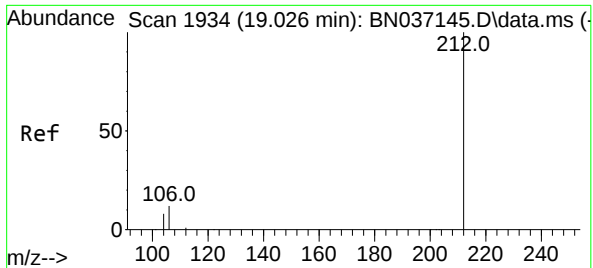
Reviewed By :Rahul Chavli 06/04/2025  
Supervised By :Jagrut Upadhyay 06/05/2025



#26  
Anthracene  
Concen: 0.388 ng  
RT: 17.120 min Scan# 1711  
Delta R.T. -0.000 min  
Lab File: BN037168.D  
Acq: 04 Jun 2025 12:27

Tgt Ion:178 Resp: 5280  
Ion Ratio Lower Upper  
178 100  
176 18.9 15.2 22.8  
179 15.2 12.9 19.3





#27

Fluoranthene-d10

Concen: 0.301 ng

RT: 19.026 min Scan# 1934

Delta R.T. -0.000 min

Lab File: BN037168.D

Acq: 04 Jun 2025 12:27

Instrument :

BNA\_N

ClientSampleId :

PB168238BS

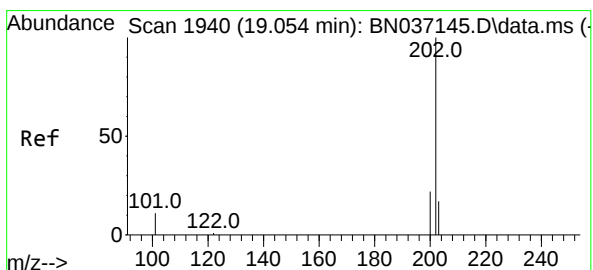
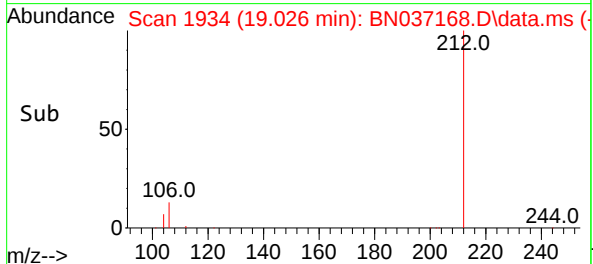
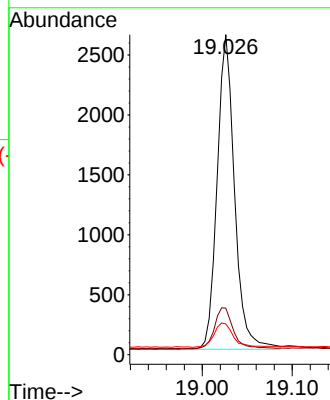
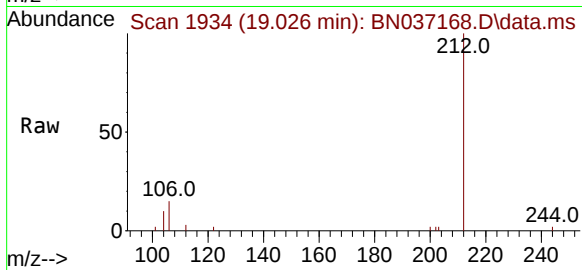
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 212   | Resp: | 352   |
| Ion      | Ratio | Lower | Upper |
| 212      | 100   |       |       |
| 106      | 14.0  | 10.6  | 15.8  |
| 104      | 8.5   | 6.6   | 9.8   |

Manual Integrations

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Reviewed By :Rahul Chavli 06/04/2025

Supervised By :Jagrut Upadhyay 06/05/2025



#28

Fluoranthene

Concen: 0.345 ng

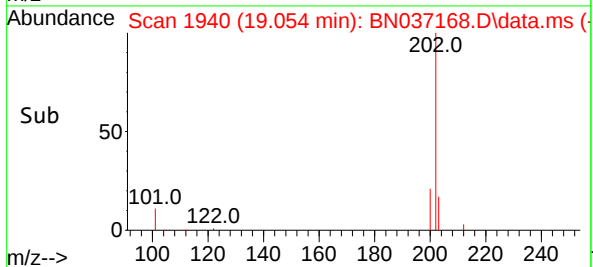
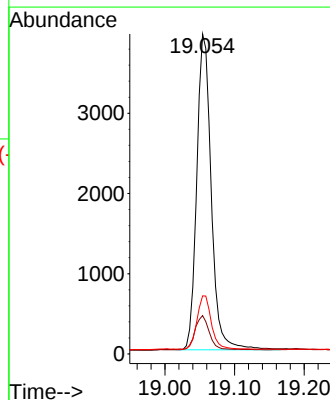
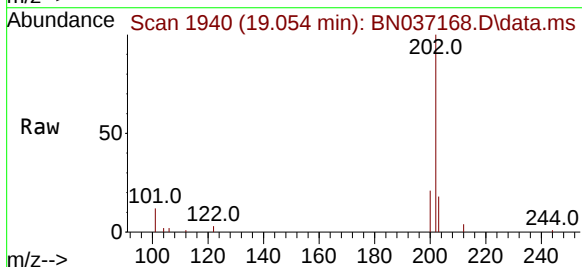
RT: 19.054 min Scan# 1940

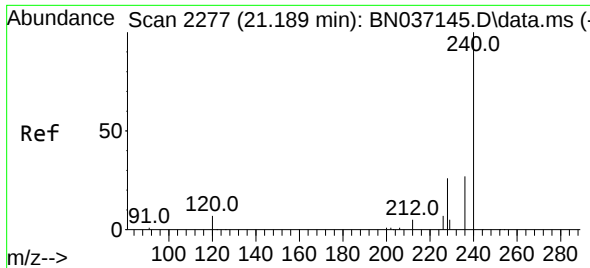
Delta R.T. -0.000 min

Lab File: BN037168.D

Acq: 04 Jun 2025 12:27

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 202   | Resp: | 5692  |
| Ion      | Ratio | Lower | Upper |
| 202      | 100   |       |       |
| 101      | 10.6  | 8.7   | 13.1  |
| 203      | 16.6  | 13.5  | 20.3  |





#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.189 min Scan# 21

Delta R.T. -0.000 min

Lab File: BN037168.D

Acq: 04 Jun 2025 12:27

Instrument :

BNA\_N

ClientSampleId :

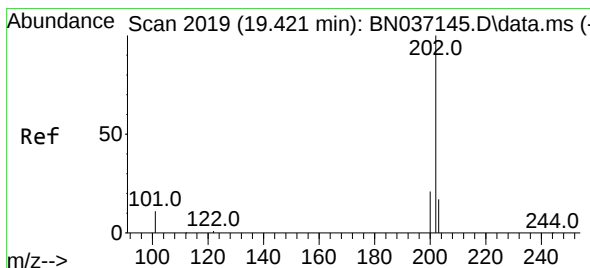
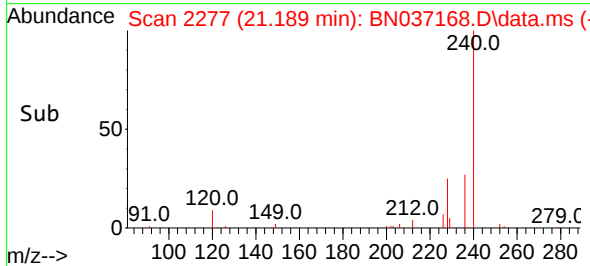
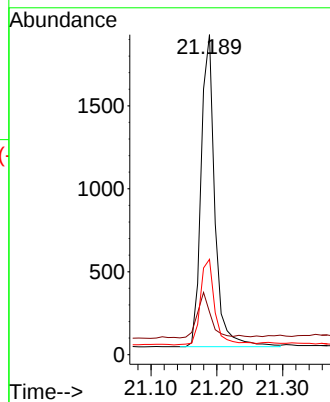
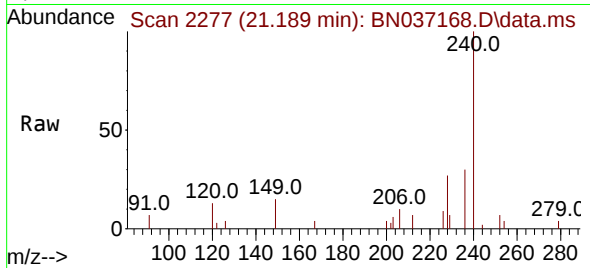
PB168238BS

|           |       |       |      |
|-----------|-------|-------|------|
| Tgt Ion:  | 240   | Resp: | 274  |
| Ion Ratio | Lower | Upper |      |
| 240       | 100   |       |      |
| 120       | 13.3  | 9.0   | 13.4 |
| 236       | 29.8  | 23.0  | 34.4 |

**Manual Integrations**  
**APPROVED**

Reviewed By :Rahul Chavli 06/04/2025

Supervised By :Jagrut Upadhyay 06/05/2025



#30

Pyrene

Concen: 0.422 ng

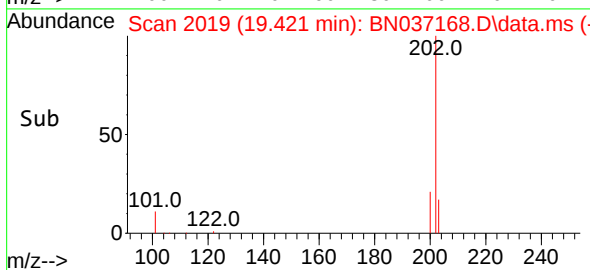
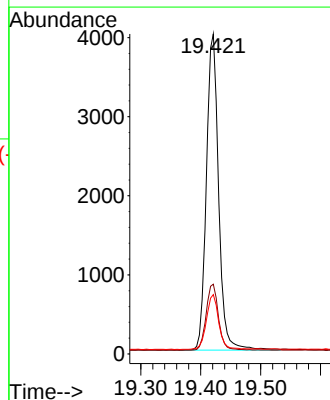
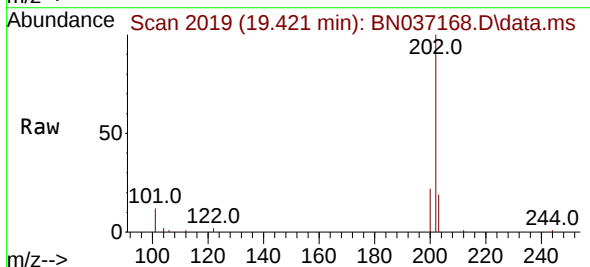
RT: 19.421 min Scan# 2019

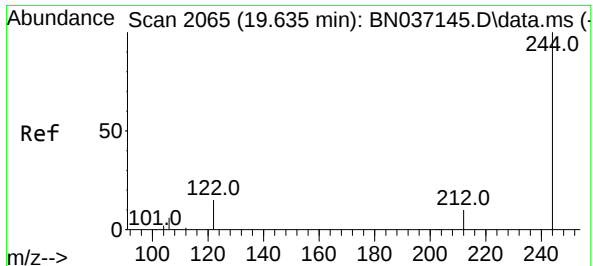
Delta R.T. -0.000 min

Lab File: BN037168.D

Acq: 04 Jun 2025 12:27

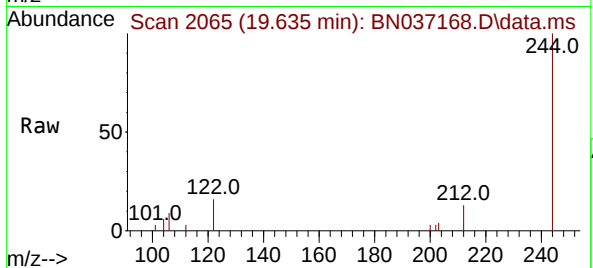
|           |       |       |      |
|-----------|-------|-------|------|
| Tgt Ion:  | 202   | Resp: | 5655 |
| Ion Ratio | Lower | Upper |      |
| 202       | 100   |       |      |
| 200       | 21.1  | 17.0  | 25.6 |
| 203       | 17.4  | 14.2  | 21.4 |





#31  
Terphenyl-d14  
Concen: 0.371 ng  
RT: 19.635 min Scan# 2065  
Delta R.T. -0.000 min  
Lab File: BN037168.D  
Acq: 04 Jun 2025 12:27

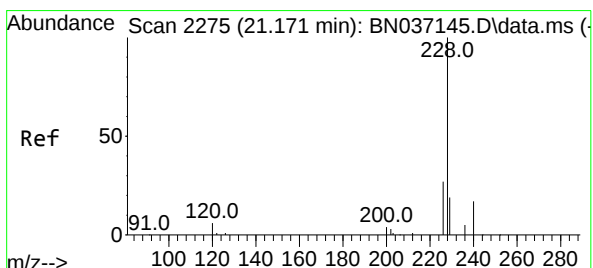
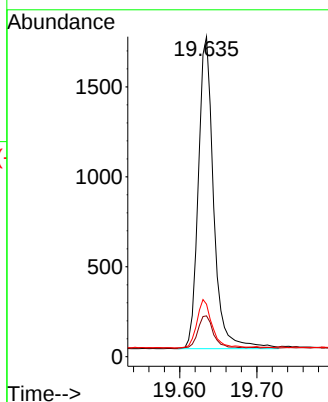
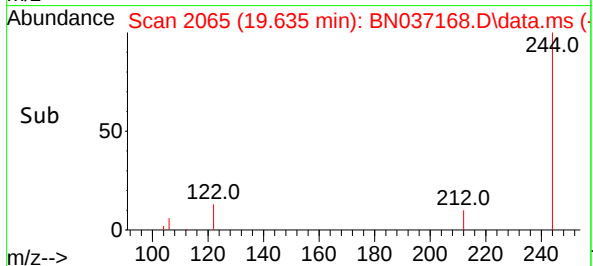
Instrument :  
BNA\_N  
ClientSampleId :  
PB168238BS



Tgt Ion:244 Resp: 2390  
Ion Ratio Lower Upper  
244 100  
212 12.8 10.0 15.0  
122 16.4 13.2 19.8

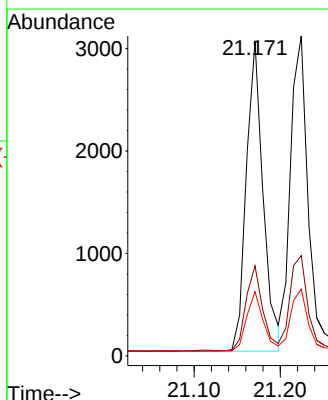
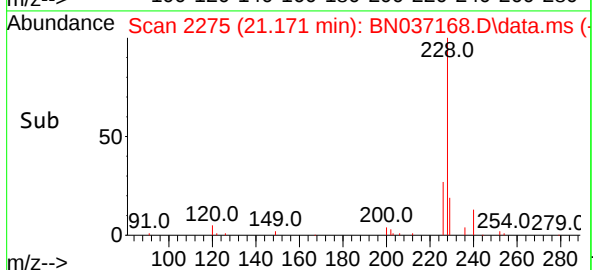
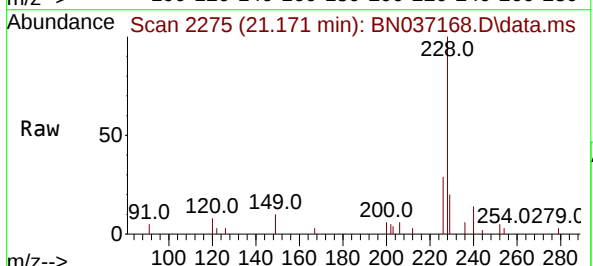
Manual Integrations  
APPROVED

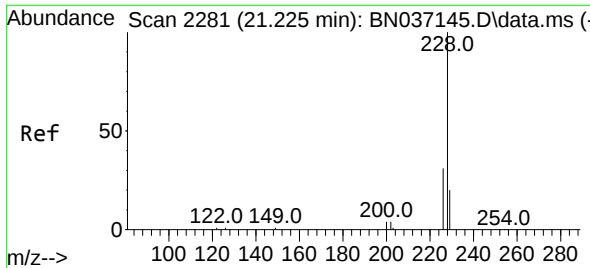
Reviewed By :Rahul Chavli 06/04/2025  
Supervised By :Jagrut Upadhyay 06/05/2025



#32  
Benzo(a)anthracene  
Concen: 0.415 ng  
RT: 21.171 min Scan# 2275  
Delta R.T. -0.000 min  
Lab File: BN037168.D  
Acq: 04 Jun 2025 12:27

Tgt Ion:228 Resp: 4122  
Ion Ratio Lower Upper  
228 100  
226 28.6 22.6 33.8  
229 20.4 16.2 24.2





#33

Chrysene

Concen: 0.412 ng

RT: 21.224 min Scan# 21

Delta R.T. -0.000 min

Lab File: BN037168.D

Acq: 04 Jun 2025 12:27

Instrument :

BNA\_N

ClientSampleId :

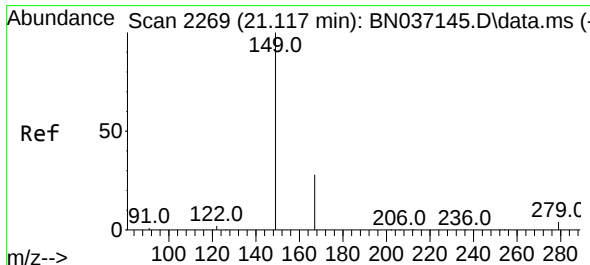
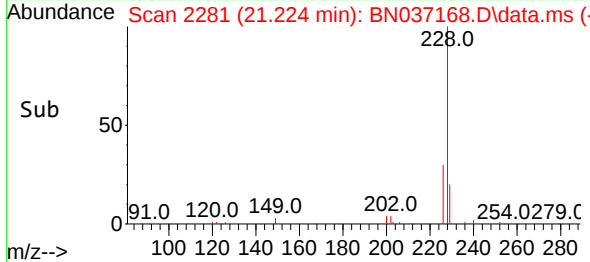
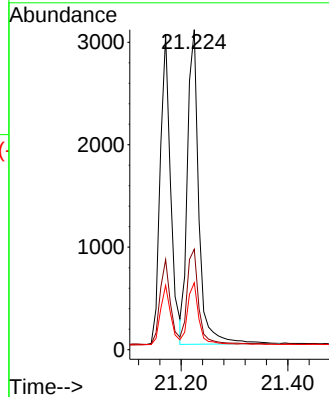
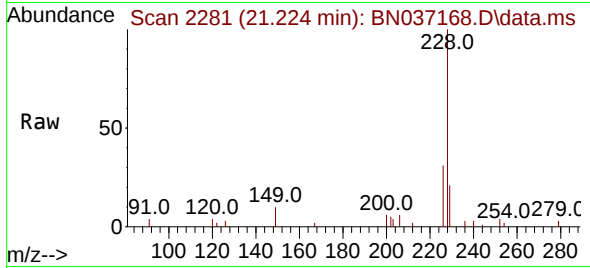
PB168238BS

|           |       |       |      |
|-----------|-------|-------|------|
| Tgt Ion:  | 228   | Resp: | 4550 |
| Ion Ratio | Lower | Upper |      |
| 228       | 100   |       |      |
| 226       | 31.4  | 25.2  | 37.8 |
| 229       | 20.9  | 16.8  | 25.2 |

**Manual Integrations**  
**APPROVED**

Reviewed By :Rahul Chavli 06/04/2025

Supervised By :Jagrut Upadhyay 06/05/2025



#34

Bis(2-ethylhexyl)phthalate

Concen: 0.326 ng

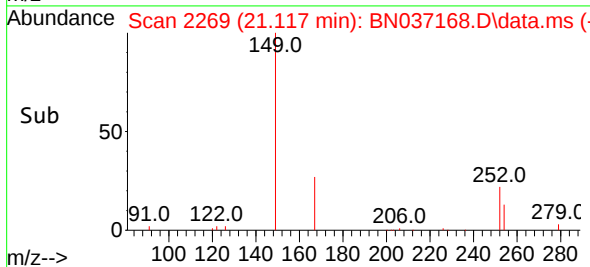
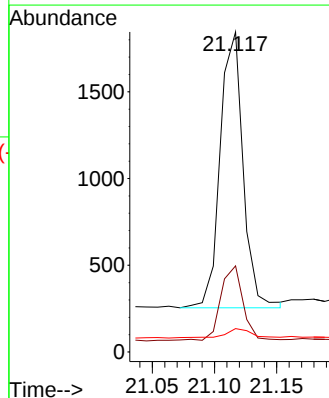
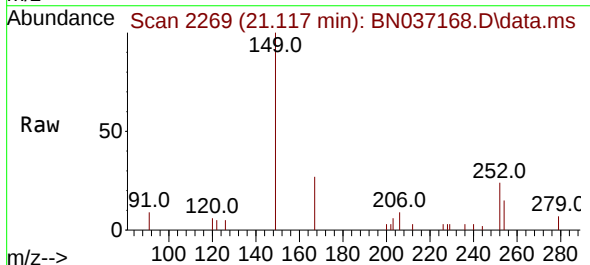
RT: 21.117 min Scan# 2269

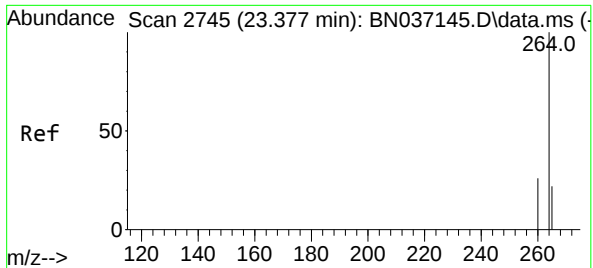
Delta R.T. -0.000 min

Lab File: BN037168.D

Acq: 04 Jun 2025 12:27

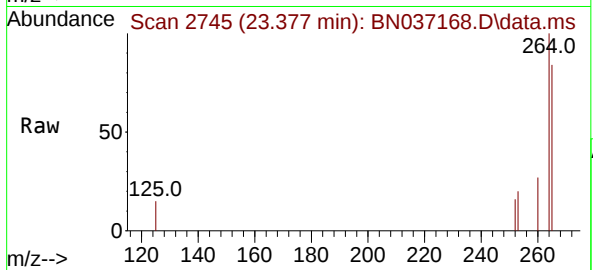
|           |       |       |      |
|-----------|-------|-------|------|
| Tgt Ion:  | 149   | Resp: | 2043 |
| Ion Ratio | Lower | Upper |      |
| 149       | 100   |       |      |
| 167       | 25.8  | 21.0  | 31.4 |
| 279       | 3.9   | 2.9   | 4.3  |





#35  
Perylene-d12  
Concen: 0.400 ng  
RT: 23.377 min Scan# 21  
Delta R.T. -0.000 min  
Lab File: BN037168.D  
Acq: 04 Jun 2025 12:27

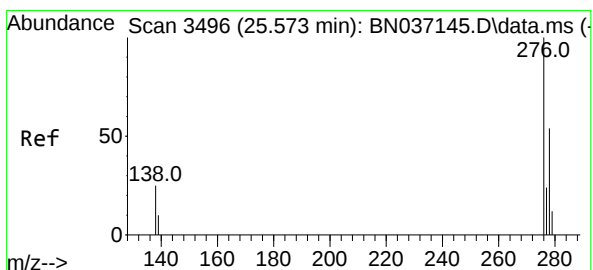
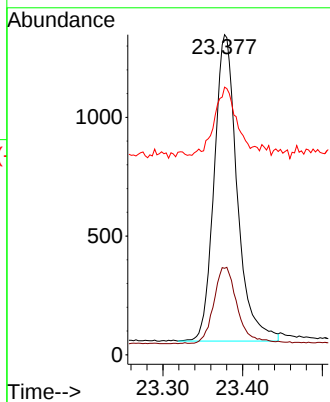
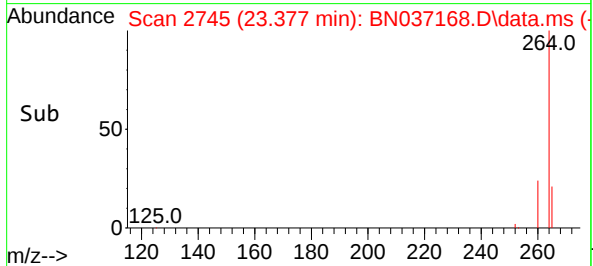
Instrument :  
BNA\_N  
ClientSampleId :  
PB168238BS



Tgt Ion:264 Resp: 2588  
Ion Ratio Lower Upper  
264 100  
260 27.0 22.1 33.1  
265 83.6 55.8 83.8

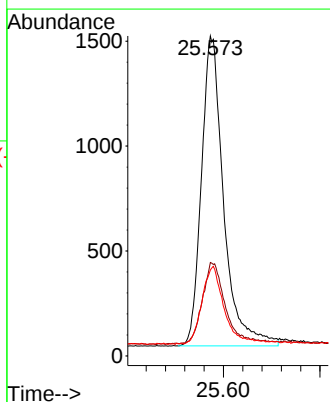
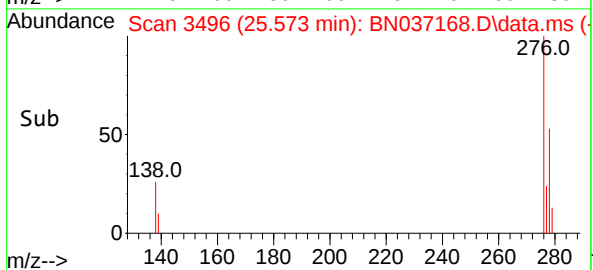
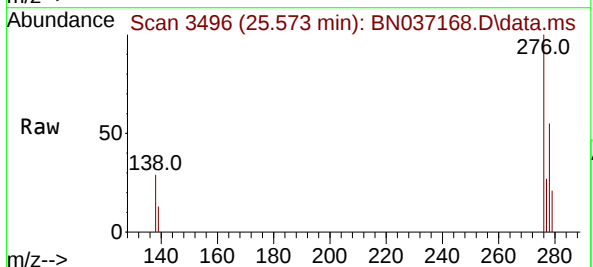
Manual Integrations  
APPROVED

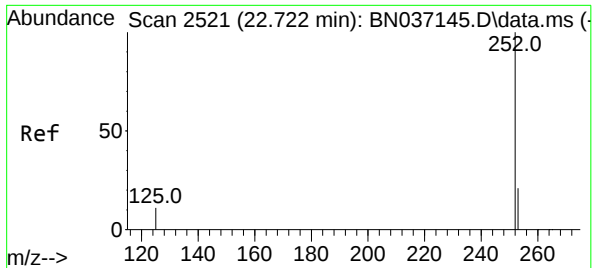
Reviewed By :Rahul Chavli 06/04/2025  
Supervised By :Jagrut Upadhyay 06/05/2025



#36  
Indeno(1,2,3-cd)pyrene  
Concen: 0.459 ng  
RT: 25.573 min Scan# 3496  
Delta R.T. -0.000 min  
Lab File: BN037168.D  
Acq: 04 Jun 2025 12:27

Tgt Ion:276 Resp: 4721  
Ion Ratio Lower Upper  
276 100  
138 26.3 21.0 31.6  
277 24.6 19.4 29.2





#37

Benzo(b)fluoranthene

Concen: 0.382 ng

RT: 22.722 min Scan# 2521

Delta R.T. -0.000 min

Lab File: BN037168.D

Acq: 04 Jun 2025 12:27

Instrument :

BNA\_N

ClientSampleId :

PB168238BS

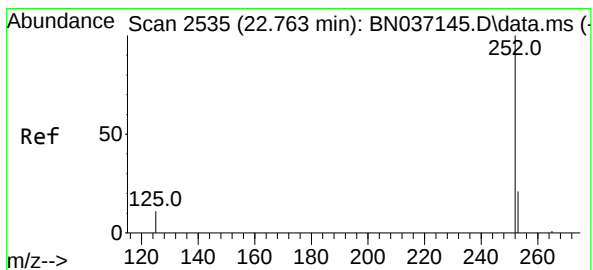
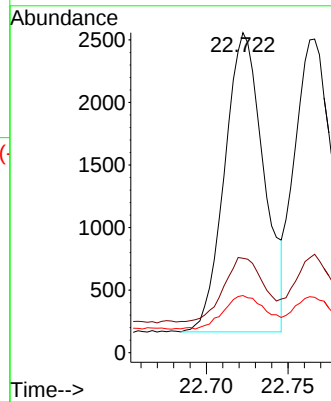
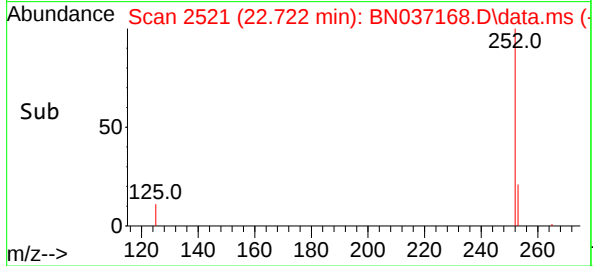
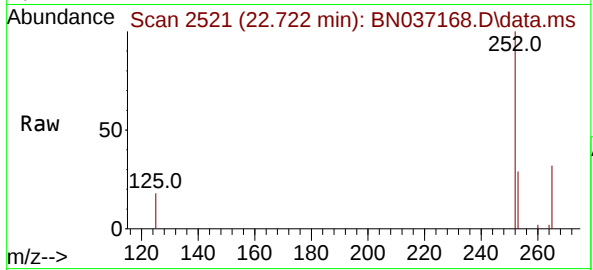
|             |       |           |
|-------------|-------|-----------|
| Tgt Ion:252 | Resp: | 3980      |
| Ion Ratio   | Lower | Upper     |
| 252         | 100   |           |
| 253         | 29.5  | 22.3 33.5 |
| 125         | 17.9  | 13.2 19.8 |

Manual Integrations

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Reviewed By :Rahul Chavli 06/04/2025

Supervised By :Jagrut Upadhyay 06/05/2025



#38

Benzo(k)fluoranthene

Concen: 0.386 ng

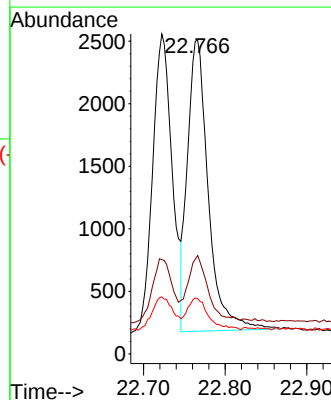
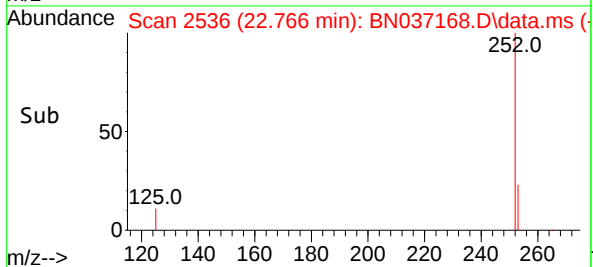
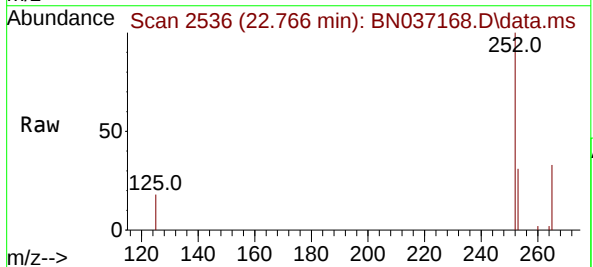
RT: 22.766 min Scan# 2536

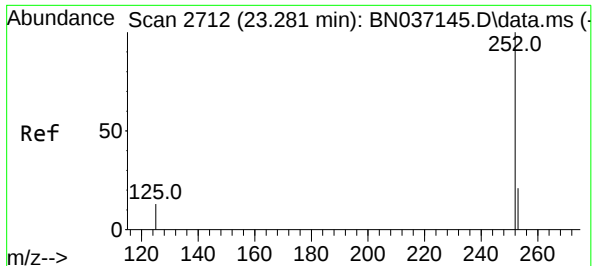
Delta R.T. 0.003 min

Lab File: BN037168.D

Acq: 04 Jun 2025 12:27

|             |       |           |
|-------------|-------|-----------|
| Tgt Ion:252 | Resp: | 4119      |
| Ion Ratio   | Lower | Upper     |
| 252         | 100   |           |
| 253         | 31.4  | 22.2 33.4 |
| 125         | 17.7  | 13.2 19.8 |





#39

Benzo(a)pyrene

Concen: 0.408 ng

RT: 23.281 min Scan# 21

Delta R.T. -0.000 min

Lab File: BN037168.D

Acq: 04 Jun 2025 12:27

Instrument :

BNA\_N

ClientSampleId :

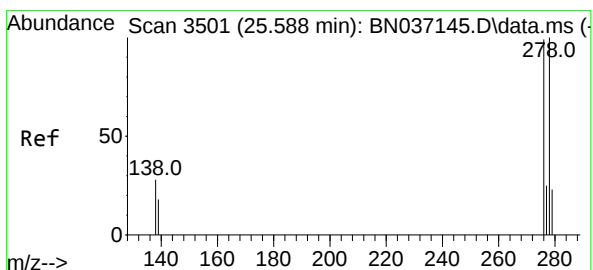
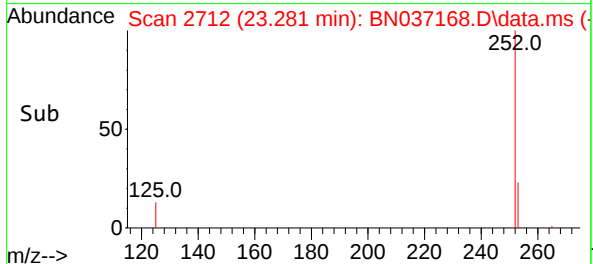
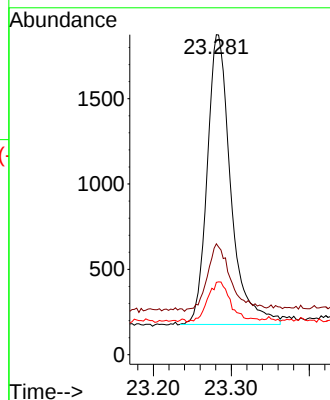
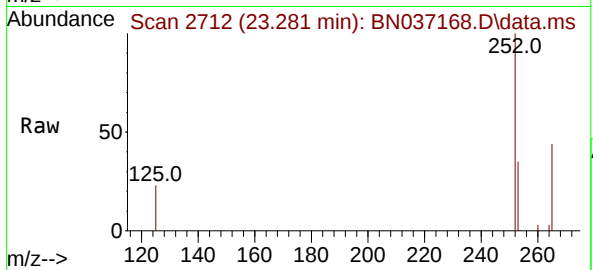
PB168238BS

|           |       |       |      |
|-----------|-------|-------|------|
| Tgt Ion:  | 252   | Resp: | 3570 |
| Ion Ratio | Lower | Upper |      |
| 252       | 100   |       |      |
| 253       | 34.7  | 25.0  | 37.4 |
| 125       | 22.6  | 17.0  | 25.6 |

Manual Integrations  
APPROVED

Reviewed By :Rahul Chavli 06/04/2025

Supervised By :Jagrut Upadhyay 06/05/2025



#40

Dibenzo(a,h)anthracene

Concen: 0.456 ng

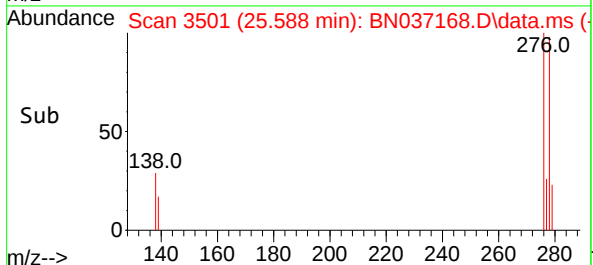
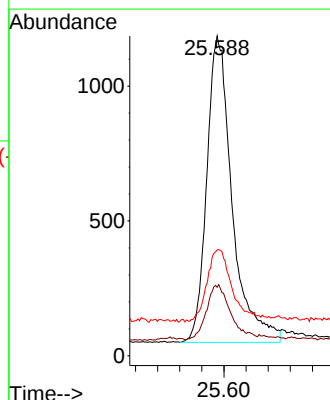
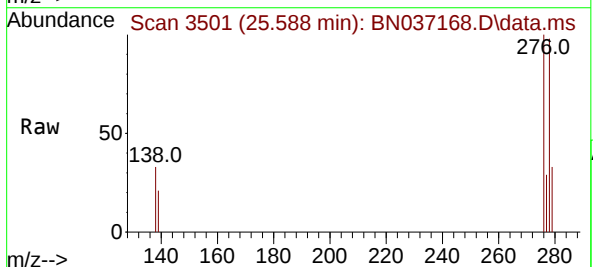
RT: 25.588 min Scan# 3501

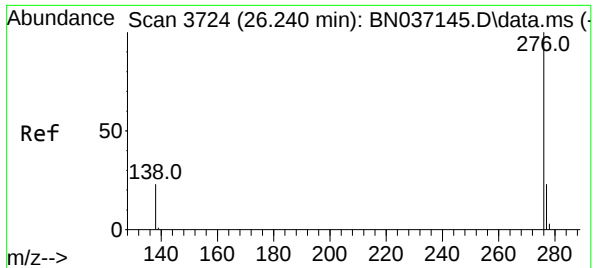
Delta R.T. -0.000 min

Lab File: BN037168.D

Acq: 04 Jun 2025 12:27

|           |       |       |      |
|-----------|-------|-------|------|
| Tgt Ion:  | 278   | Resp: | 3621 |
| Ion Ratio | Lower | Upper |      |
| 278       | 100   |       |      |
| 139       | 21.4  | 17.6  | 26.4 |
| 279       | 33.1  | 26.0  | 39.0 |





#41

Benzo(g,h,i)perylene

Concen: 0.438 ng

RT: 26.240 min Scan# 31

Delta R.T. -0.000 min

Lab File: BN037168.D

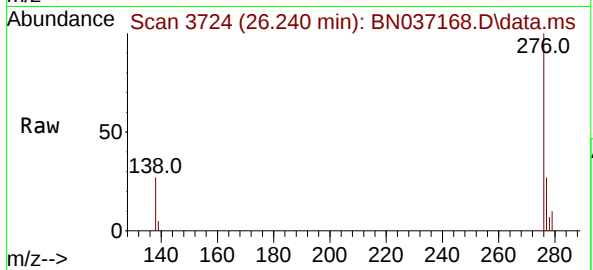
Acq: 04 Jun 2025 12:27

Instrument :

BNA\_N

ClientSampleId :

PB168238BS



Tgt Ion:276 Resp: 3990

Ion Ratio Lower Upper

276 100

277 27.0 20.9 31.3

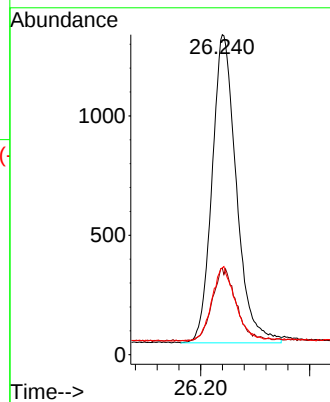
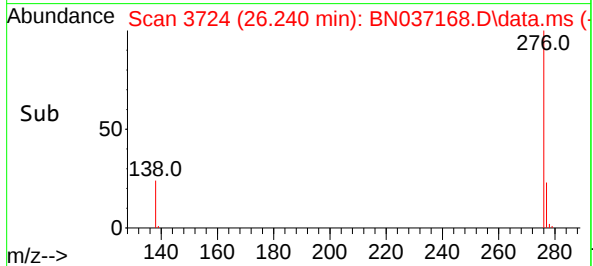
138 27.2 20.8 31.2

Manual Integrations

APPROVED

Reviewed By :Rahul Chavli 06/04/2025

Supervised By :Jagrut Upadhyay 06/05/2025



## Report of Analysis

|                    |                                        |                 |               |
|--------------------|----------------------------------------|-----------------|---------------|
| Client:            | Alliance Technical Group, LLC - Newark | Date Collected: |               |
| Project:           | NJ Waste Water PT                      | Date Received:  |               |
| Client Sample ID:  | PB168238BSD                            | SDG No.:        | Q2181         |
| Lab Sample ID:     | PB168238BSD                            | Matrix:         | Water         |
| Analytical Method: | SW8270ESIM                             | % Solid:        | 0             |
| Sample Wt/Vol:     | 1000 Units: mL                         | Final Vol:      | 1000 uL       |
| Soil Aliquot Vol:  | uL                                     | Test:           | SVOCMS Group5 |
| Extraction Type :  | Decanted : N                           | Level :         | LOW           |
| Injection Volume : | GPC Factor : 1.0                       | GPC Cleanup :   | N PH :        |
| Prep Method :      |                                        |                 |               |

|                   |           |                |                |               |
|-------------------|-----------|----------------|----------------|---------------|
| File ID/Qc Batch: | Dilution: | Prep Date      | Date Analyzed  | Prep Batch ID |
| BN037169.D        | 1         | 06/02/25 08:55 | 06/04/25 13:03 | PB168238      |

| CAS Number                | Parameter               | Conc. | Qualifier | MDL      | LOQ / CRQL | Units    |
|---------------------------|-------------------------|-------|-----------|----------|------------|----------|
| <b>TARGETS</b>            |                         |       |           |          |            |          |
| 208-96-8                  | Acenaphthylene          | 0.39  |           | 0.040    | 0.10       | ug/L     |
| <b>SURROGATES</b>         |                         |       |           |          |            |          |
| 7297-45-2                 | 2-Methylnaphthalene-d10 | 0.38  |           | 20 - 139 | 96%        | SPK: 0.4 |
| 93951-69-0                | Fluoranthene-d10        | 0.30  |           | 54 - 157 | 74%        | SPK: 0.4 |
| 4165-60-0                 | Nitrobenzene-d5         | 0.36  |           | 27 - 154 | 90%        | SPK: 0.4 |
| 321-60-8                  | 2-Fluorobiphenyl        | 0.37  |           | 30 - 155 | 91%        | SPK: 0.4 |
| 1718-51-0                 | Terphenyl-d14           | 0.36  |           | 54 - 175 | 90%        | SPK: 0.4 |
| <b>INTERNAL STANDARDS</b> |                         |       |           |          |            |          |
| 3855-82-1                 | 1,4-Dichlorobenzene-d4  | 2150  | 7.59      |          |            |          |
| 1146-65-2                 | Naphthalene-d8          | 5350  | 10.372    |          |            |          |
| 15067-26-2                | Acenaphthene-d10        | 2660  | 14.235    |          |            |          |
| 1517-22-2                 | Phenanthrene-d10        | 4420  | 16.984    |          |            |          |
| 1719-03-5                 | Chrysene-d12            | 2670  | 21.189    |          |            |          |
| 1520-96-3                 | Perylene-d12            | 2550  | 23.377    |          |            |          |

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\BN060425\  
 Data File : BN037169.D  
 Acq On : 04 Jun 2025 13:03  
 Operator : RC/JU  
 Sample : PB168238BSD  
 Misc :  
 ALS Vial : 5 Sample Multiplier: 1

Instrument :  
 BNA\_N  
 ClientSampleId :  
 PB168238BSD

### Manual Integrations APPROVED

Reviewed By :Rahul Chavli 06/04/2025  
 Supervised By :Jagrut Upadhyay 06/05/2025

Quant Time: Jun 04 13:26:28 2025  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\8270-SIM-BN060325.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Wed Jun 04 01:52:03 2025  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc  | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|-------|--------|----------|
| -----                         |        |      |          |       |        |          |
| Internal Standards            |        |      |          |       |        |          |
| 1) 1,4-Dichlorobenzene-d4     | 7.590  | 152  | 2147     | 0.400 | ng     | 0.00     |
| 7) Naphthalene-d8             | 10.372 | 136  | 5350     | 0.400 | ng     | 0.00     |
| 13) Acenaphthene-d10          | 14.235 | 164  | 2661     | 0.400 | ng     | 0.00     |
| 19) Phenanthrene-d10          | 16.984 | 188  | 4419     | 0.400 | ng     | 0.00     |
| 29) Chrysene-d12              | 21.189 | 240  | 2674     | 0.400 | ng     | 0.00     |
| 35) Perylene-d12              | 23.377 | 264  | 2551     | 0.400 | ng     | 0.00     |
|                               |        |      |          |       |        |          |
| System Monitoring Compounds   |        |      |          |       |        |          |
| 4) 2-Fluorophenol             | 5.192  | 112  | 1953     | 0.368 | ng     | 0.00     |
| 5) Phenol-d6                  | 6.766  | 99   | 2276     | 0.354 | ng     | 0.00     |
| 8) Nitrobenzene-d5            | 8.739  | 82   | 2021     | 0.358 | ng     | 0.00     |
| 11) 2-Methylnaphthalene-d10   | 11.966 | 152  | 2859m    | 0.384 | ng     | 0.00     |
| 14) 2,4,6-Tribromophenol      | 15.743 | 330  | 314      | 0.293 | ng     | 0.00     |
| 15) 2-Fluorobiphenyl          | 12.858 | 172  | 4148     | 0.366 | ng     | 0.00     |
| 27) Fluoranthene-d10          | 19.026 | 212  | 3333     | 0.297 | ng     | 0.00     |
| 31) Terphenyl-d14             | 19.630 | 244  | 2256     | 0.358 | ng     | 0.00     |
|                               |        |      |          |       |        |          |
| Target Compounds              |        |      |          |       | Qvalue |          |
| 2) 1,4-Dioxane                | 3.119  | 88   | 1228     | 0.429 | ng     | # 35     |
| 3) n-Nitrosodimethylamine     | 3.430  | 42   | 2089     | 0.364 | ng     | # 95     |
| 6) bis(2-Chloroethyl)ether    | 7.026  | 93   | 2073     | 0.338 | ng     | 95       |
| 9) Naphthalene                | 10.415 | 128  | 5411     | 0.351 | ng     | 99       |
| 10) Hexachlorobutadiene       | 10.714 | 225  | 1183     | 0.352 | ng     | # 98     |
| 12) 2-Methylnaphthalene       | 12.042 | 142  | 3054     | 0.309 | ng     | 98       |
| 16) Acenaphthylene            | 13.957 | 152  | 5109     | 0.392 | ng     | 100      |
| 17) Acenaphthene              | 14.299 | 154  | 3052     | 0.360 | ng     | 99       |
| 18) Fluorene                  | 15.293 | 166  | 3886     | 0.349 | ng     | 98       |
| 20) 4,6-Dinitro-2-methylph... | 15.379 | 198  | 328      | 0.528 | ng     | # 80     |
| 21) 4-Bromophenyl-phenylether | 16.190 | 248  | 1063     | 0.367 | ng     | 95       |
| 22) Hexachlorobenzene         | 16.301 | 284  | 1169     | 0.374 | ng     | 99       |
| 23) Atrazine                  | 16.463 | 200  | 763      | 0.319 | ng     | 99       |
| 24) Pentachlorophenol         | 16.649 | 266  | 671      | 0.574 | ng     | 96       |
| 25) Phenanthrene              | 17.021 | 178  | 5611     | 0.392 | ng     | 100      |
| 26) Anthracene                | 17.120 | 178  | 4942     | 0.378 | ng     | 99       |
| 28) Fluoranthene              | 19.054 | 202  | 5342     | 0.338 | ng     | 99       |
| 30) Pyrene                    | 19.416 | 202  | 5262     | 0.403 | ng     | 100      |
| 32) Benzo(a)anthracene        | 21.171 | 228  | 3952     | 0.408 | ng     | 100      |
| 33) Chrysene                  | 21.216 | 228  | 4391     | 0.407 | ng     | 98       |
| 34) Bis(2-ethylhexyl)phtha... | 21.108 | 149  | 1898     | 0.311 | ng     | # 98     |
| 36) Indeno(1,2,3-cd)pyrene    | 25.573 | 276  | 4667     | 0.460 | ng     | 100      |
| 37) Benzo(b)fluoranthene      | 22.722 | 252  | 3779     | 0.367 | ng     | 95       |
| 38) Benzo(k)fluoranthene      | 22.763 | 252  | 4120     | 0.392 | ng     | 96       |
| 39) Benzo(a)pyrene            | 23.284 | 252  | 3526     | 0.409 | ng     | 95       |
| 40) Dibenzo(a,h)anthracene    | 25.591 | 278  | 3574     | 0.457 | ng     | 98       |
| 41) Benzo(g,h,i)perylene      | 26.243 | 276  | 3931     | 0.437 | ng     | 98       |

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

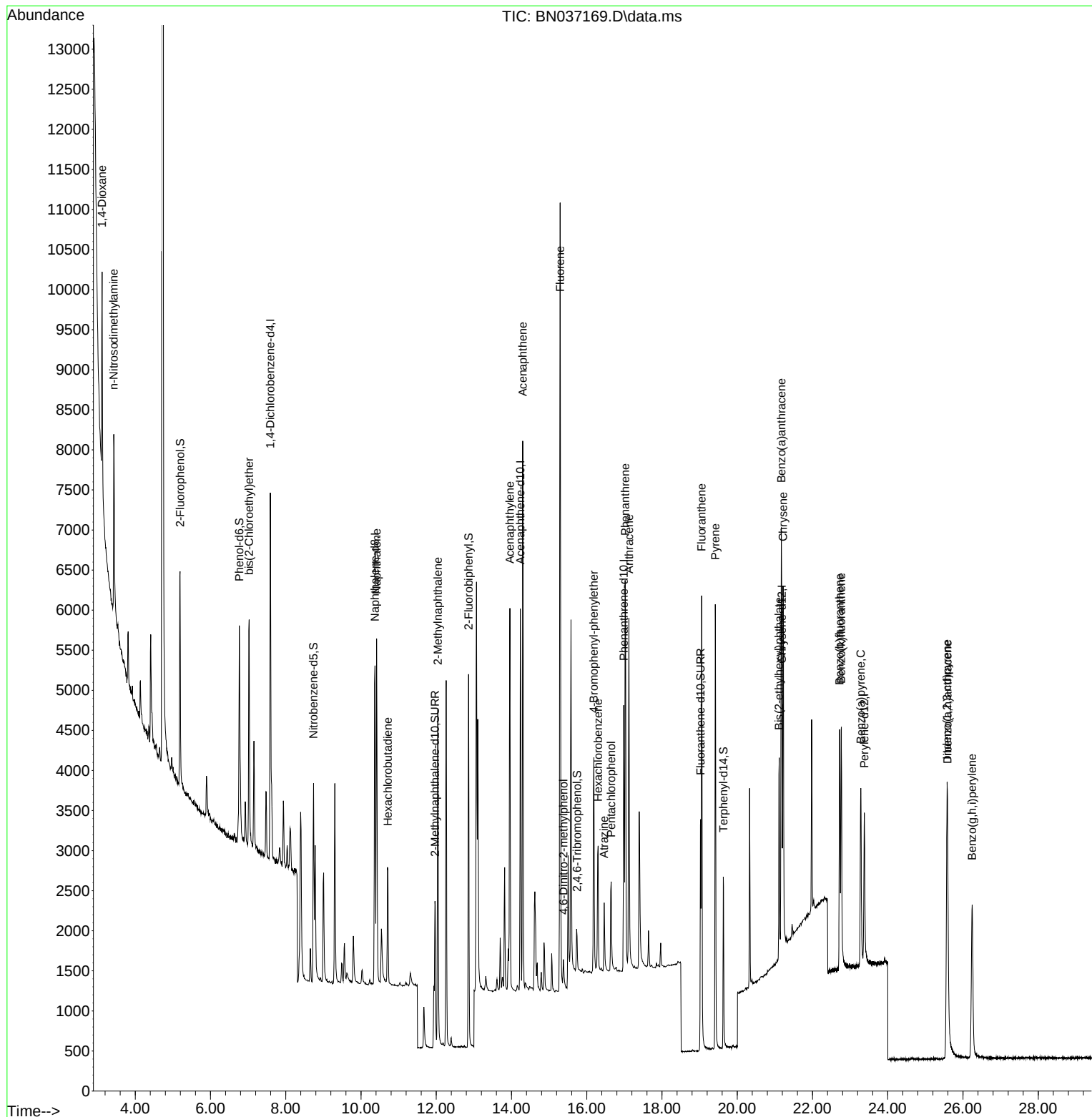
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Data File : BN037169.D  
Acq On : 04 Jun 2025 13:03  
Operator : RC/JU  
Sample : PB168238BSD  
Misc :  
ALS Vial : 5 Sample Multiplier: 1

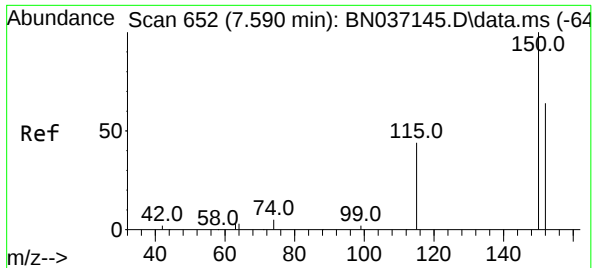
Instrument :  
BNA\_N  
ClientSampleId :  
PB168238BSD

Quant Time: Jun 04 13:26:28 2025  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\8270-SIM-BN060325.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Wed Jun 04 01:52:03 2025  
Response via : Initial Calibration

Manual Integrations  
APPROVED

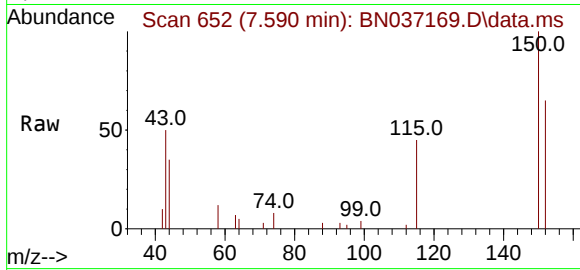
Reviewed By :Rahul Chavli 06/04/2025  
Supervised By :Jagrut Upadhyay 06/05/2025





#1  
1,4-Dichlorobenzene-d4  
Concen: 0.400 ng  
RT: 7.590 min Scan# 61  
Delta R.T. -0.000 min  
Lab File: BN037169.D  
Acq: 04 Jun 2025 13:03

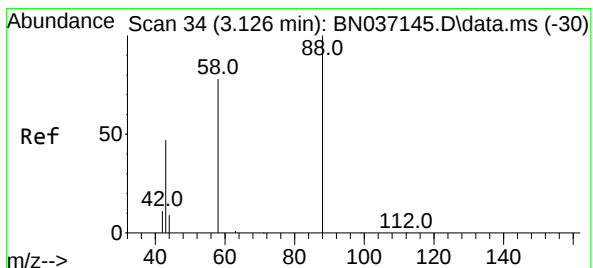
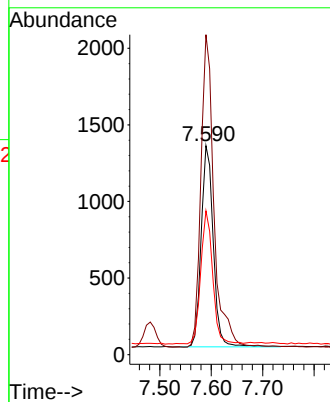
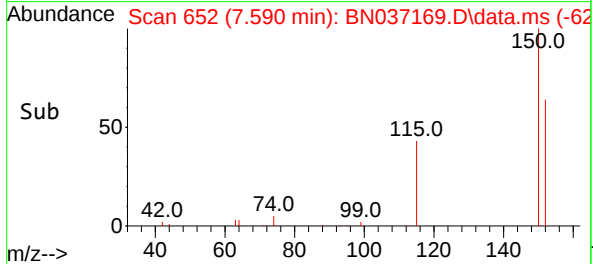
Instrument :  
BNA\_N  
ClientSampleId :  
PB168238BSD



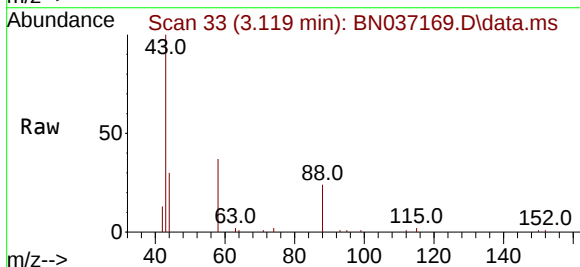
Tgt Ion: 152 Resp: 214  
Ion Ratio Lower Upper  
152 100  
150 153.2 123.2 184.8  
115 68.8 56.6 85.0

Manual Integrations  
APPROVED

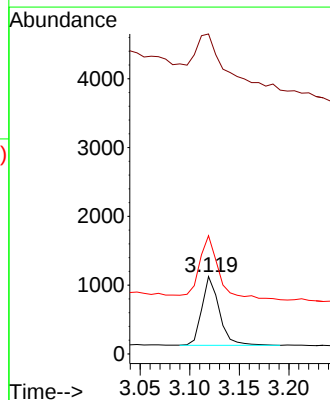
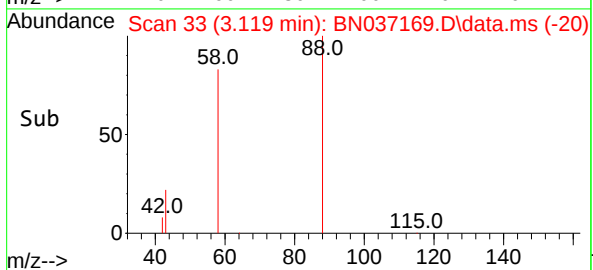
Reviewed By :Rahul Chavli 06/04/2025  
Supervised By :Jagrut Upadhyay 06/05/2025



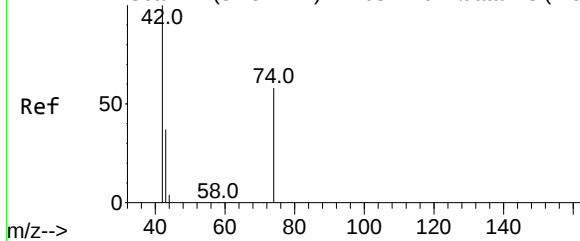
#2  
1,4-Dioxane  
Concen: 0.429 ng  
RT: 3.119 min Scan# 33  
Delta R.T. -0.007 min  
Lab File: BN037169.D  
Acq: 04 Jun 2025 13:03



Tgt Ion: 88 Resp: 1228  
Ion Ratio Lower Upper  
88 100  
43 144.8 43.5 65.3#  
58 107.8 67.7 101.5#



Abundance Scan 77 (3.437 min): BN037145.D\data.ms (-73)



#3

n-Nitrosodimethylamine

Concen: 0.364 ng

RT: 3.430 min Scan# 70

Delta R.T. -0.007 min

Lab File: BN037169.D

Acq: 04 Jun 2025 13:03

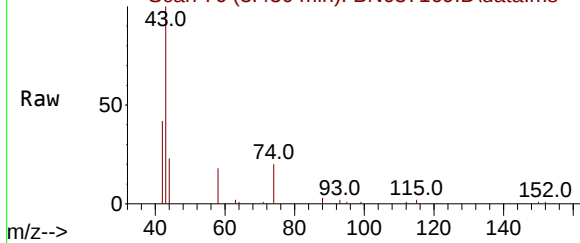
Instrument :

BNA\_N

ClientSampleId :

PB168238BSD

Abundance Scan 76 (3.430 min): BN037169.D\data.ms



Tgt Ion: 42 Resp: 2089

Ion Ratio Lower Upper

42 100

74 62.4 53.0 79.4

44 10.1 5.9 8.9

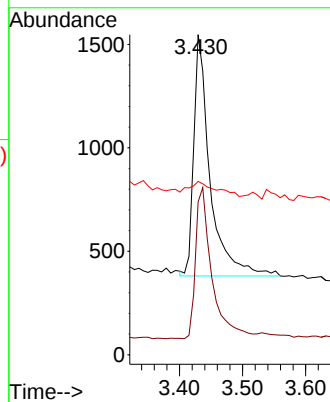
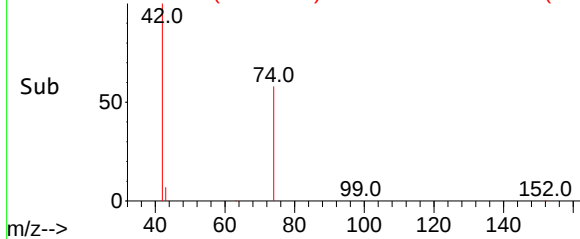
Manual Integrations

APPROVED

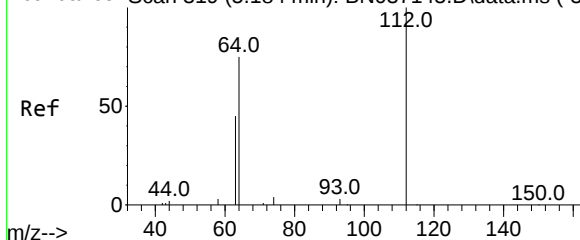
Reviewed By :Rahul Chavli 06/04/2025

Supervised By :Jagrut Upadhyay 06/05/2025

Abundance Scan 76 (3.430 min): BN037169.D\data.ms (-56)



Abundance Scan 319 (5.184 min): BN037145.D\data.ms (-31)



#4

2-Fluorophenol

Concen: 0.368 ng

RT: 5.192 min Scan# 320

Delta R.T. 0.007 min

Lab File: BN037169.D

Acq: 04 Jun 2025 13:03

Tgt Ion:112 Resp: 1953

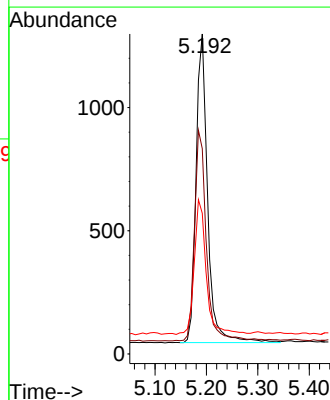
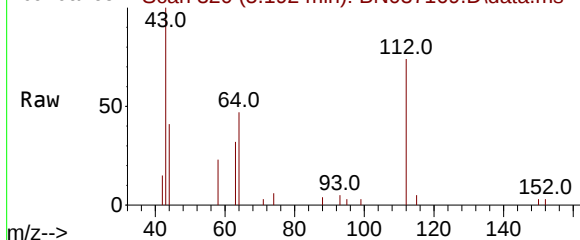
Ion Ratio Lower Upper

112 100

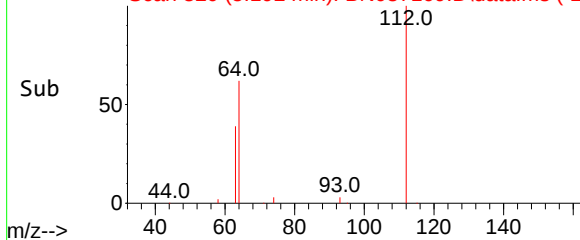
64 69.6 56.3 84.5

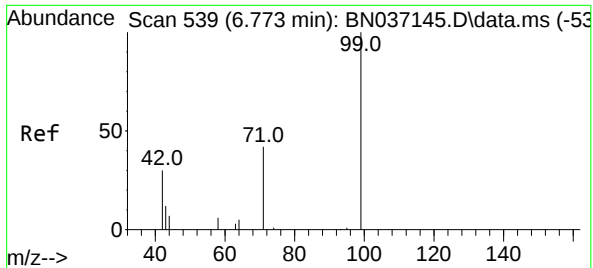
63 45.1 36.2 54.4

Abundance Scan 320 (5.192 min): BN037169.D\data.ms



Abundance Scan 320 (5.192 min): BN037169.D\data.ms (-29)





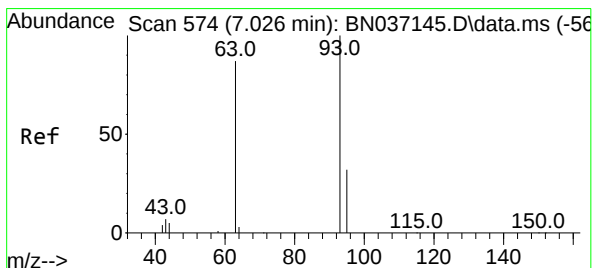
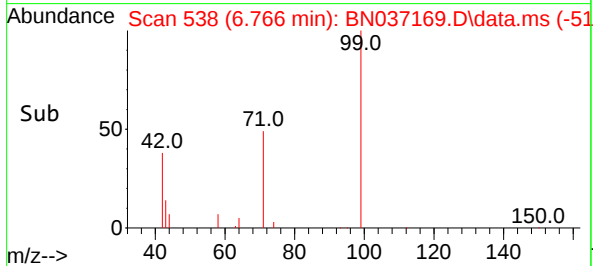
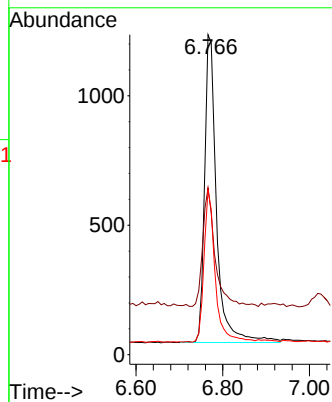
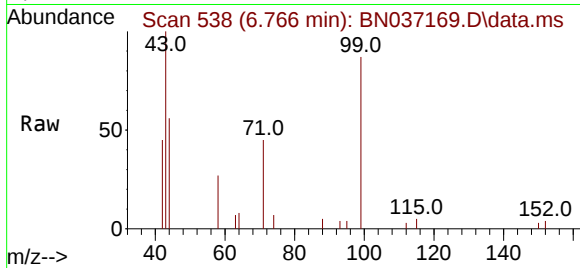
#5  
Phenol-d6  
Concen: 0.354 ng  
RT: 6.766 min Scan# 51  
Delta R.T. -0.007 min  
Lab File: BN037169.D  
Acq: 04 Jun 2025 13:03

Instrument :  
BNA\_N  
ClientSampleId :  
PB168238BSD

Tgt Ion: 99 Resp: 2270  
Ion Ratio Lower Upper  
99 100  
42 39.8 31.3 46.9  
71 45.8 38.2 57.2

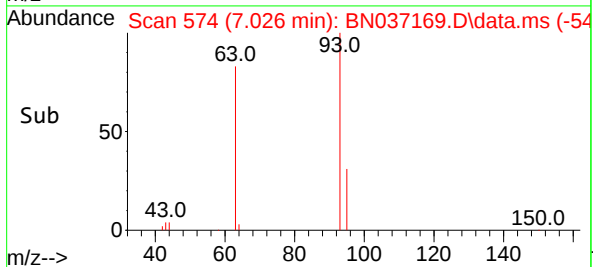
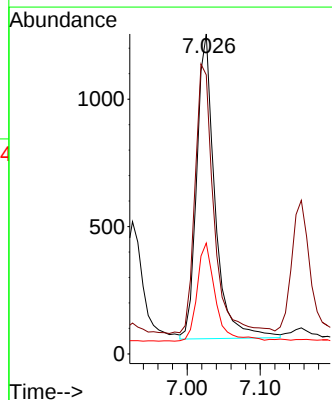
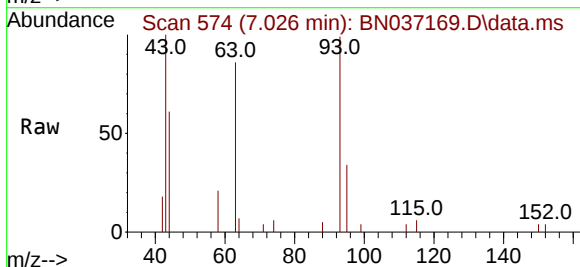
Manual Integrations  
APPROVED

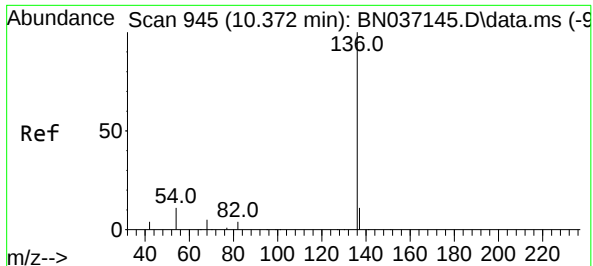
Reviewed By :Rahul Chavli 06/04/2025  
Supervised By :Jagrut Upadhyay 06/05/2025



#6  
bis(2-Chloroethyl)ether  
Concen: 0.338 ng  
RT: 7.026 min Scan# 574  
Delta R.T. 0.000 min  
Lab File: BN037169.D  
Acq: 04 Jun 2025 13:03

Tgt Ion: 93 Resp: 2073  
Ion Ratio Lower Upper  
93 100  
63 91.2 68.6 103.0  
95 32.1 24.3 36.5





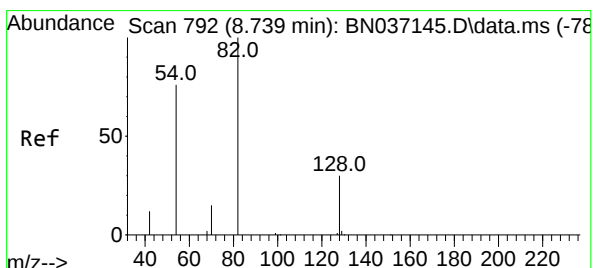
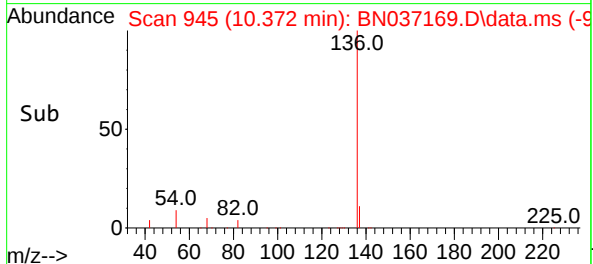
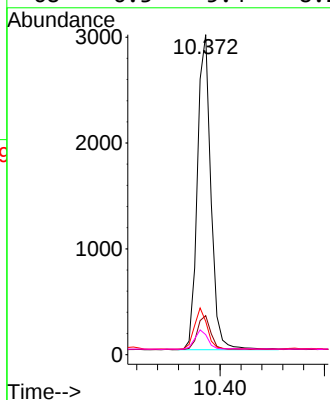
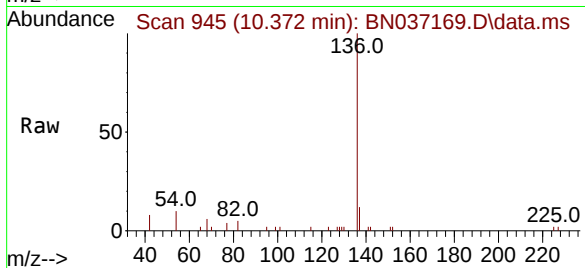
#7  
Naphthalene-d8  
Concen: 0.400 ng  
RT: 10.372 min Scan# 945  
Delta R.T. 0.000 min  
Lab File: BN037169.D  
Acq: 04 Jun 2025 13:03

Instrument :  
BNA\_N  
ClientSampleId :  
PB168238BSD

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 136   | Resp: | 5350  |
| Ion      | Ratio | Lower | Upper |
| 136      | 100   |       |       |
| 137      | 12.2  | 9.7   | 14.5  |
| 54       | 10.4  | 9.7   | 14.5  |
| 68       | 6.3   | 5.4   | 8.2   |

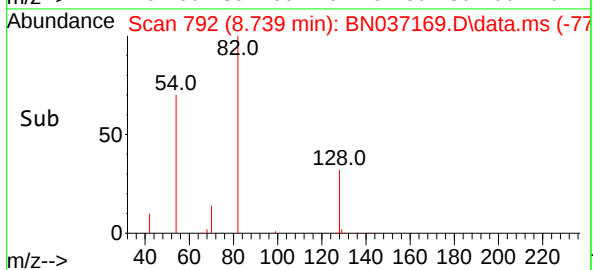
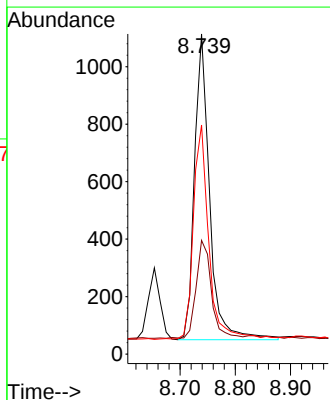
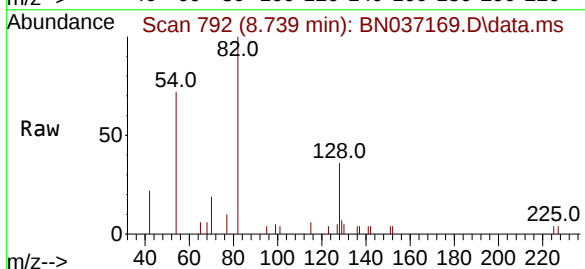
Manual Integrations  
APPROVED

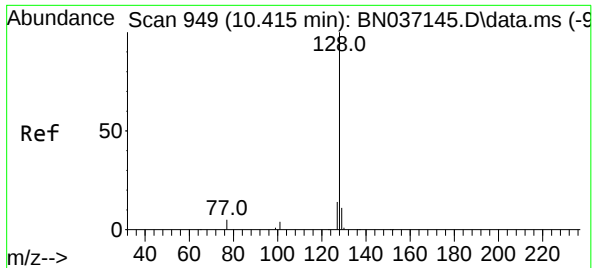
Reviewed By :Rahul Chavli 06/04/2025  
Supervised By :Jagrut Upadhyay 06/05/2025



#8  
Nitrobenzene-d5  
Concen: 0.358 ng  
RT: 8.739 min Scan# 792  
Delta R.T. 0.000 min  
Lab File: BN037169.D  
Acq: 04 Jun 2025 13:03

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 82    | Resp: | 2021  |
| Ion      | Ratio | Lower | Upper |
| 82       | 100   |       |       |
| 128      | 35.5  | 26.9  | 40.3  |
| 54       | 71.5  | 61.4  | 92.2  |





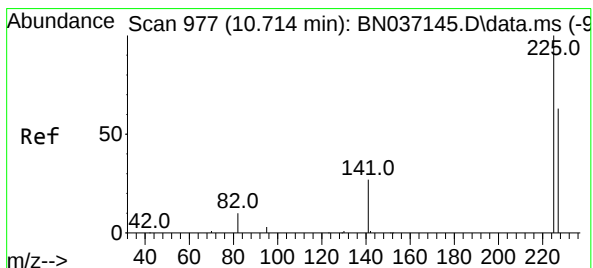
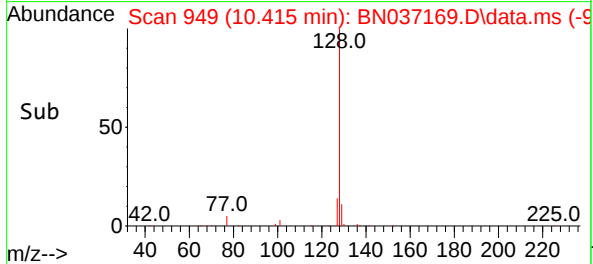
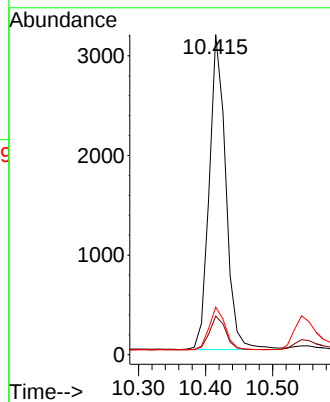
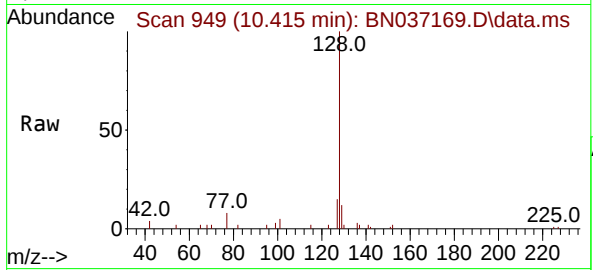
#9  
Naphthalene  
Concen: 0.351 ng  
RT: 10.415 min Scan# 949  
Delta R.T. 0.000 min  
Lab File: BN037169.D  
Acq: 04 Jun 2025 13:03

Instrument :  
BNA\_N  
ClientSampleId :  
PB168238BSD

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 128     | 100   |       |       |
| 129     | 12.0  | 9.8   | 14.8  |
| 127     | 14.9  | 12.3  | 18.5  |

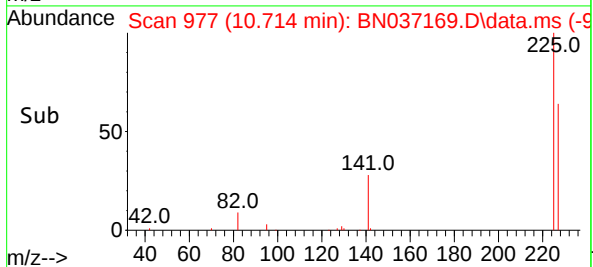
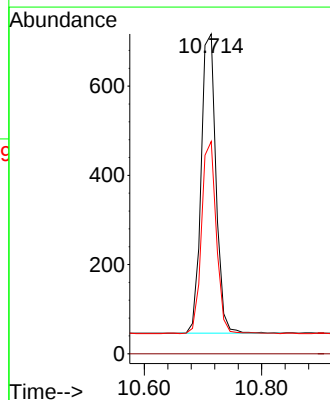
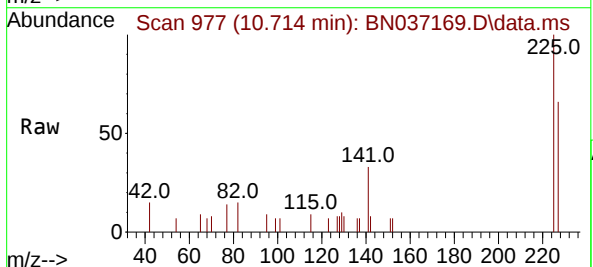
Manual Integrations  
APPROVED

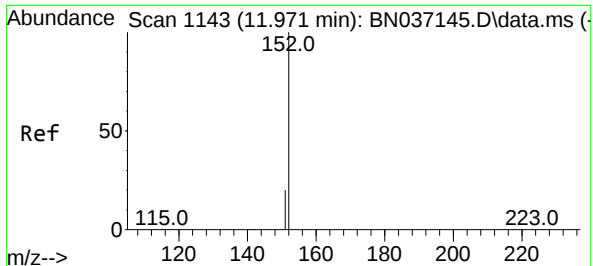
Reviewed By :Rahul Chavli 06/04/2025  
Supervised By :Jagrut Upadhyay 06/05/2025



#10  
Hexachlorobutadiene  
Concen: 0.352 ng  
RT: 10.714 min Scan# 977  
Delta R.T. 0.000 min  
Lab File: BN037169.D  
Acq: 04 Jun 2025 13:03

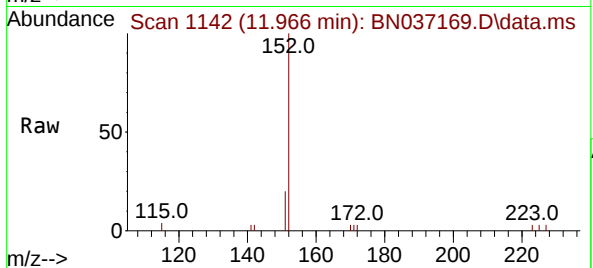
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 225     | 100   |       |       |
| 223     | 0.0   | 0.0   | 0.0   |
| 227     | 64.2  | 50.3  | 75.5  |





#11  
2-Methylnaphthalene-d10  
Concen: 0.384 ng m  
RT: 11.966 min Scan# 1142  
Delta R.T. -0.005 min  
Lab File: BN037169.D  
Acq: 04 Jun 2025 13:03

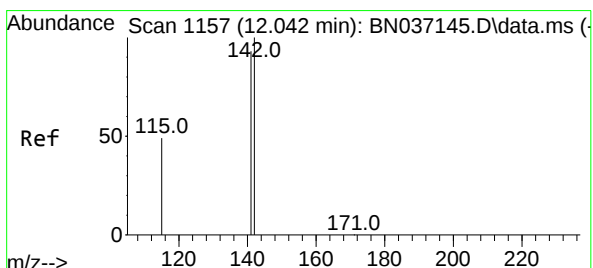
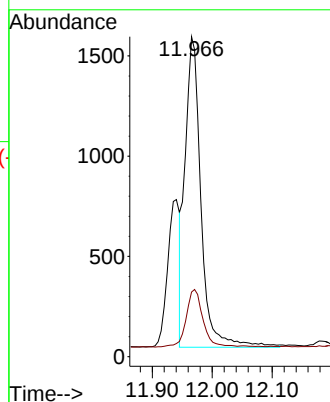
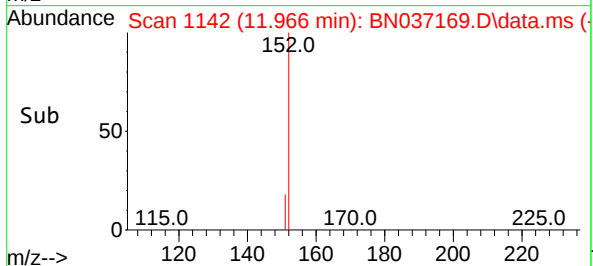
Instrument :  
BNA\_N  
ClientSampleId :  
PB168238BSD



Tgt Ion:152 Resp: 2859  
Ion Ratio Lower Upper  
152 100  
151 19.4 17.1 25.7

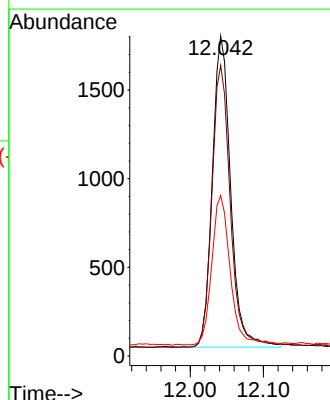
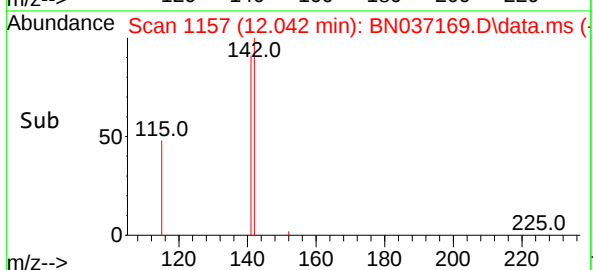
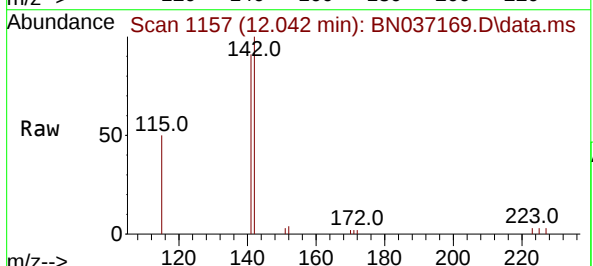
Manual Integrations  
APPROVED

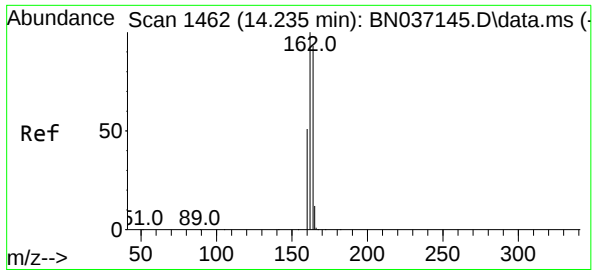
Reviewed By :Rahul Chavli 06/04/2025  
Supervised By :Jagrut Upadhyay 06/05/2025



#12  
2-Methylnaphthalene  
Concen: 0.309 ng  
RT: 12.042 min Scan# 1157  
Delta R.T. 0.000 min  
Lab File: BN037169.D  
Acq: 04 Jun 2025 13:03

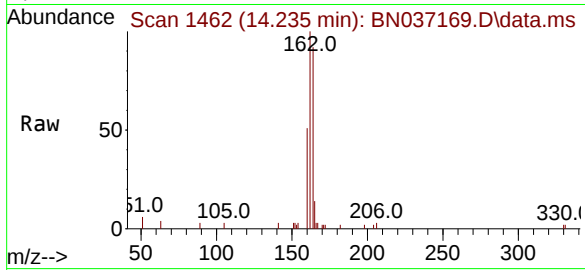
Tgt Ion:142 Resp: 3054  
Ion Ratio Lower Upper  
142 100  
141 90.8 74.6 111.8  
115 50.1 41.0 61.4





#13  
Acenaphthene-d10  
Concen: 0.400 ng  
RT: 14.235 min Scan# 1462  
Delta R.T. 0.000 min  
Lab File: BN037169.D  
Acq: 04 Jun 2025 13:03

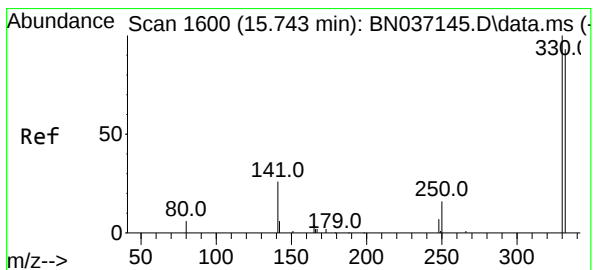
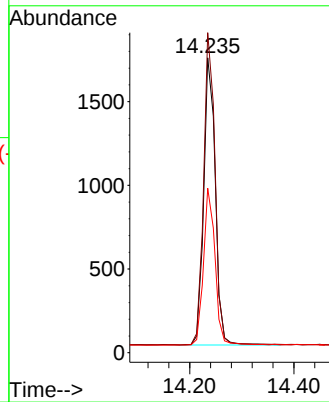
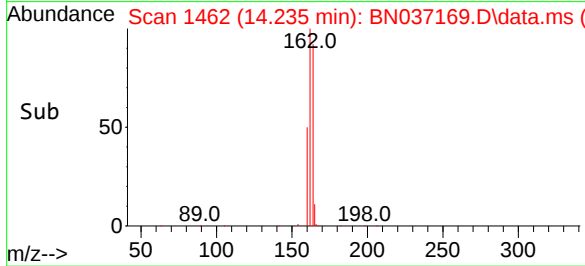
Instrument :  
BNA\_N  
ClientSampleId :  
PB168238BSD



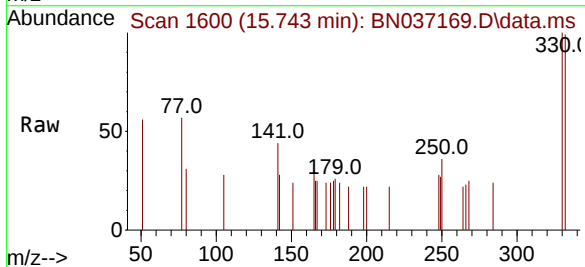
Tgt Ion:164 Resp: 266  
Ion Ratio Lower Upper  
164 100  
162 108.5 85.5 128.3  
160 55.8 44.6 67.0

Manual Integrations  
APPROVED

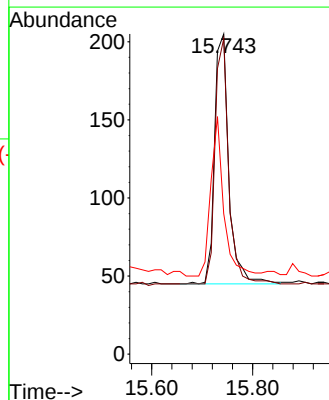
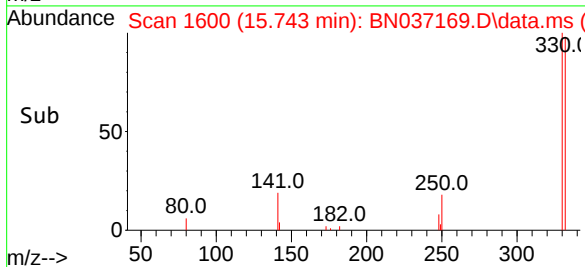
Reviewed By :Rahul Chavli 06/04/2025  
Supervised By :Jagrut Upadhyay 06/05/2025

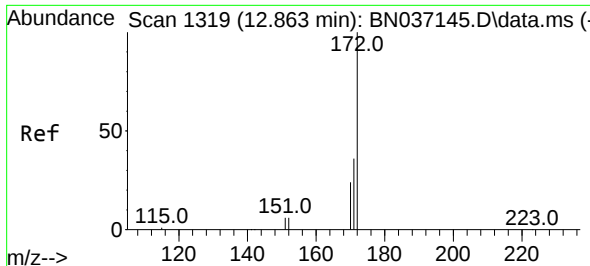


#14  
2,4,6-Tribromophenol  
Concen: 0.293 ng  
RT: 15.743 min Scan# 1600  
Delta R.T. 0.000 min  
Lab File: BN037169.D  
Acq: 04 Jun 2025 13:03



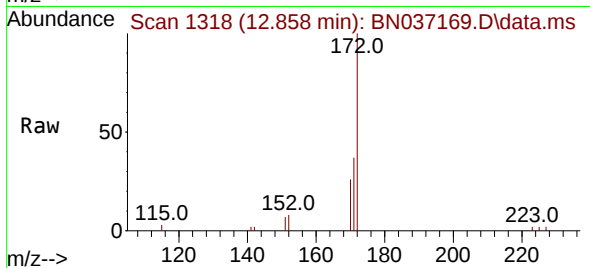
Tgt Ion:330 Resp: 314  
Ion Ratio Lower Upper  
330 100  
332 93.0 77.1 115.7  
141 58.0 46.4 69.6





#15  
2-Fluorobiphenyl  
Concen: 0.366 ng  
RT: 12.858 min Scan# 1318  
Delta R.T. -0.005 min  
Lab File: BN037169.D  
Acq: 04 Jun 2025 13:03

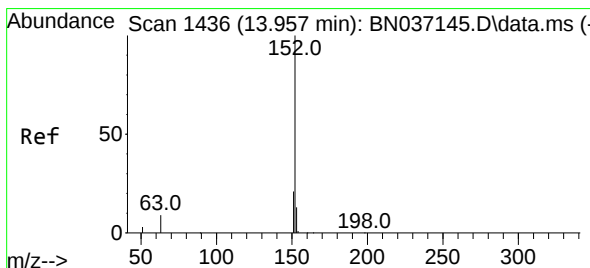
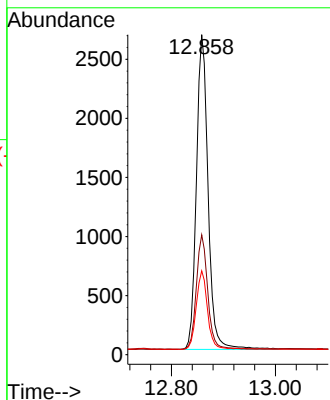
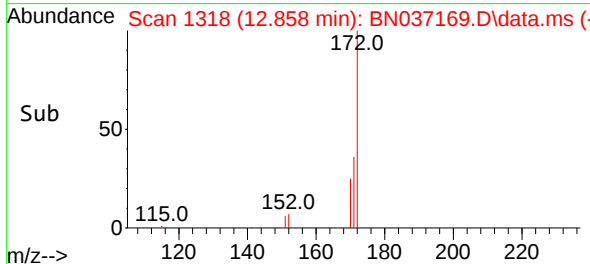
Instrument :  
BNA\_N  
ClientSampleId :  
PB168238BSD



Tgt Ion:172 Resp: 414  
Ion Ratio Lower Upper  
172 100  
171 37.5 29.6 44.4  
170 26.2 20.3 30.5

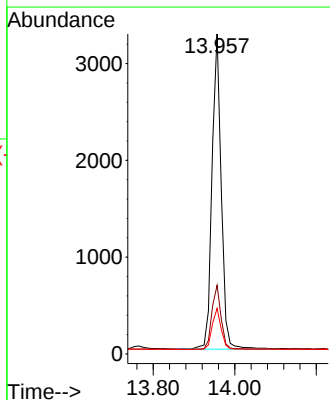
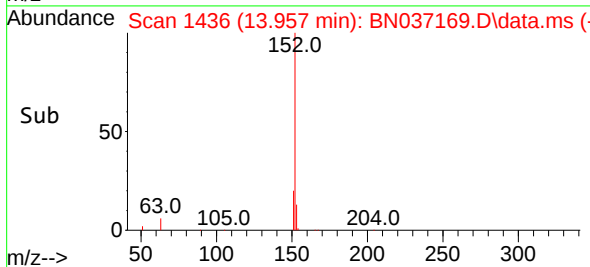
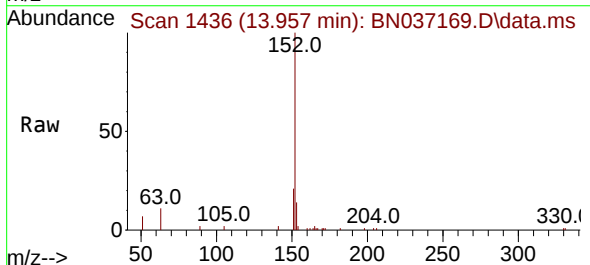
Manual Integrations  
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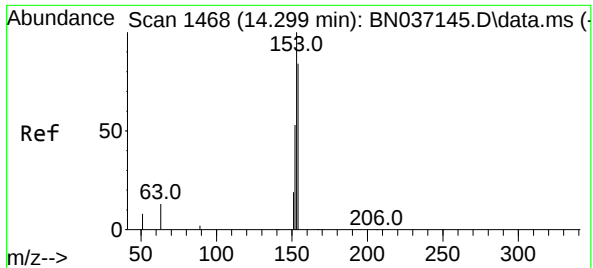
Reviewed By :Rahul Chavli 06/04/2025  
Supervised By :Jagrut Upadhyay 06/05/2025



#16  
Acenaphthylene  
Concen: 0.392 ng  
RT: 13.957 min Scan# 1436  
Delta R.T. 0.000 min  
Lab File: BN037169.D  
Acq: 04 Jun 2025 13:03

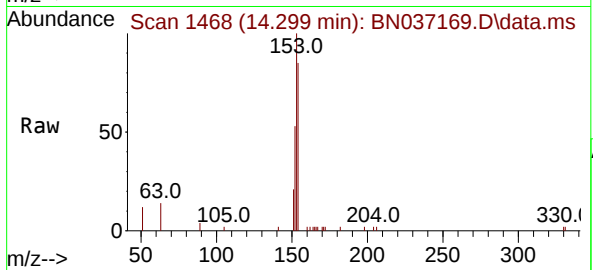
Tgt Ion:152 Resp: 5109  
Ion Ratio Lower Upper  
152 100  
151 20.3 16.3 24.5  
153 12.9 10.6 15.8





#17  
Acenaphthene  
Concen: 0.360 ng  
RT: 14.299 min Scan# 1468  
Delta R.T. 0.000 min  
Lab File: BN037169.D  
Acq: 04 Jun 2025 13:03

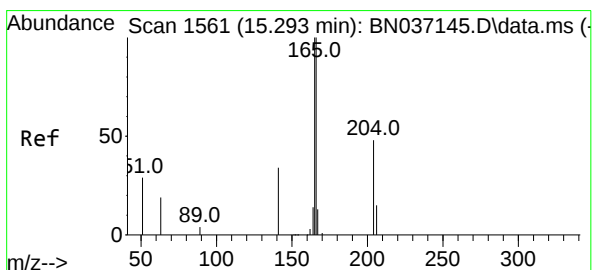
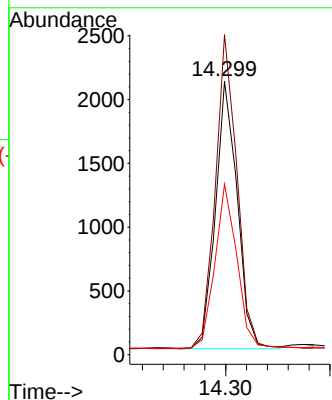
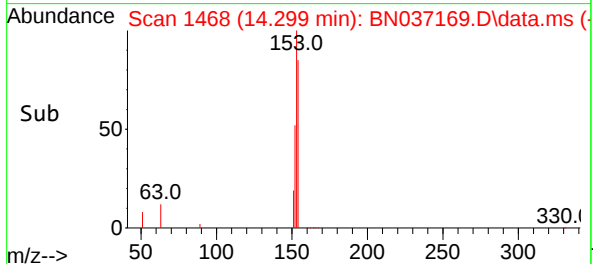
Instrument :  
BNA\_N  
ClientSampleId :  
PB168238BSD



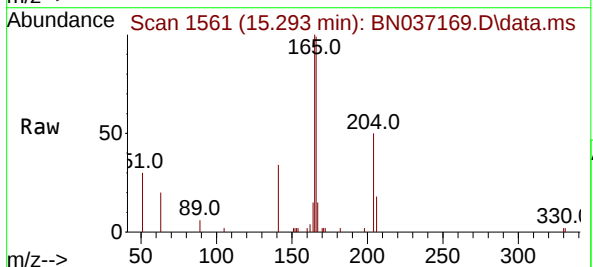
Tgt Ion:154 Resp: 3052  
Ion Ratio Lower Upper  
154 100  
153 117.2 93.8 140.8  
152 61.7 50.5 75.7

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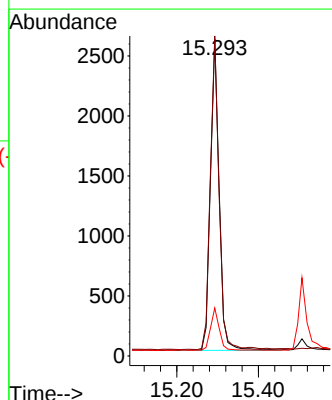
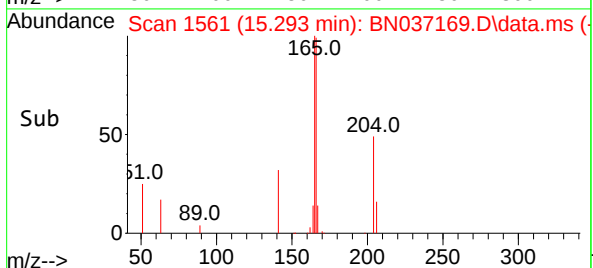
Reviewed By :Rahul Chavli 06/04/2025  
Supervised By :Jagrut Upadhyay 06/05/2025

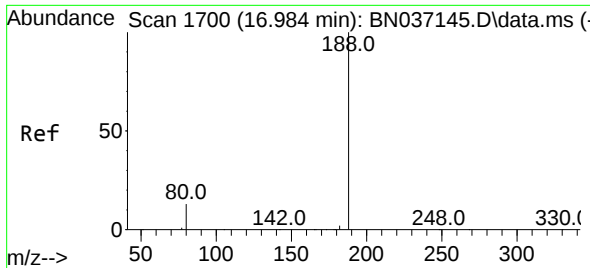


#18  
Fluorene  
Concen: 0.349 ng  
RT: 15.293 min Scan# 1561  
Delta R.T. 0.000 min  
Lab File: BN037169.D  
Acq: 04 Jun 2025 13:03



Tgt Ion:166 Resp: 3886  
Ion Ratio Lower Upper  
166 100  
165 99.5 81.1 121.7  
167 13.6 10.8 16.2





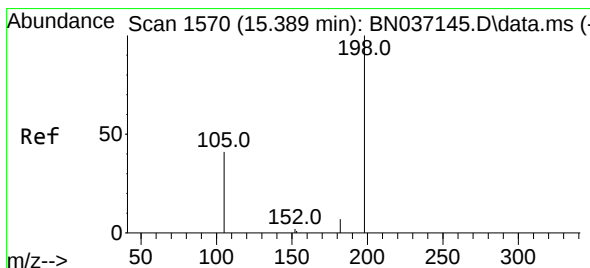
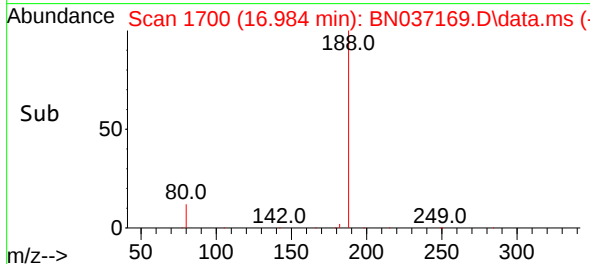
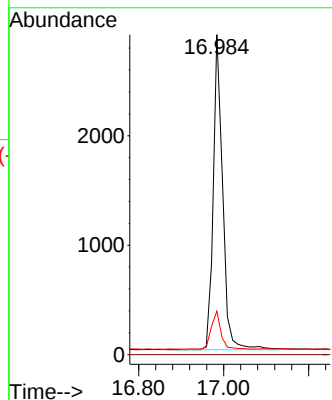
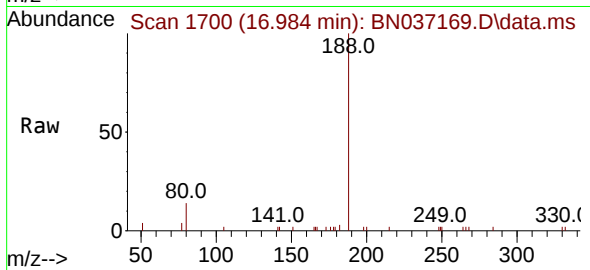
#19  
Phenanthrene-d10  
Concen: 0.400 ng  
RT: 16.984 min Scan# 11  
Delta R.T. 0.000 min  
Lab File: BN037169.D  
Acq: 04 Jun 2025 13:03

Instrument :  
BNA\_N  
ClientSampleId :  
PB168238BSD

Tgt Ion:188 Resp: 4419  
Ion Ratio Lower Upper  
188 100  
94 0.0 0.0 0.0  
80 13.6 11.3 16.9

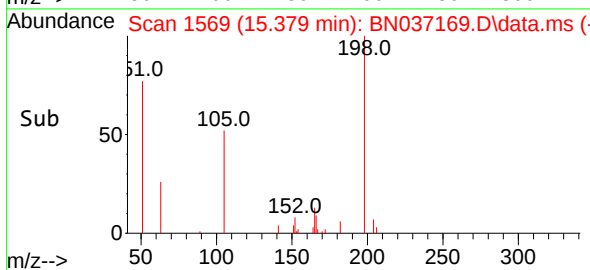
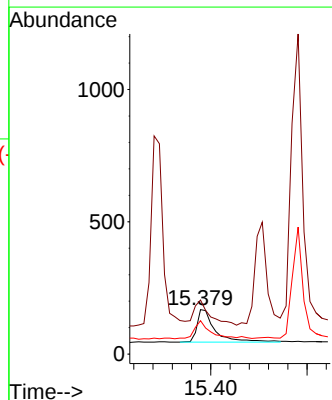
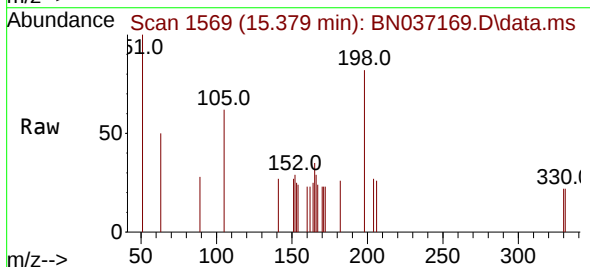
Manual Integrations  
APPROVED

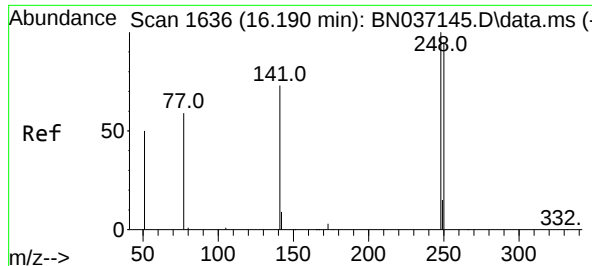
Reviewed By :Rahul Chavli 06/04/2025  
Supervised By :Jagrut Upadhyay 06/05/2025



#20  
4,6-Dinitro-2-methylphenol  
Concen: 0.528 ng  
RT: 15.379 min Scan# 1569  
Delta R.T. -0.010 min  
Lab File: BN037169.D  
Acq: 04 Jun 2025 13:03

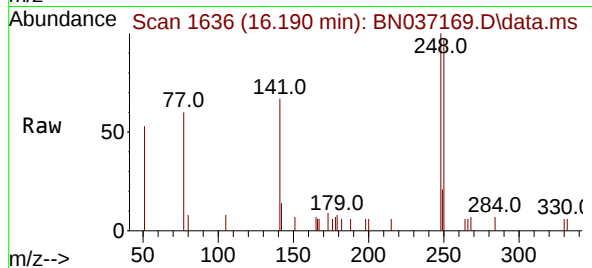
Tgt Ion:198 Resp: 328  
Ion Ratio Lower Upper  
198 100  
51 121.4 125.2 187.8#  
105 75.0 57.1 85.7





#21  
4-Bromophenyl-phenylether  
Concen: 0.367 ng  
RT: 16.190 min Scan# 1636  
Delta R.T. 0.000 min  
Lab File: BN037169.D  
Acq: 04 Jun 2025 13:03

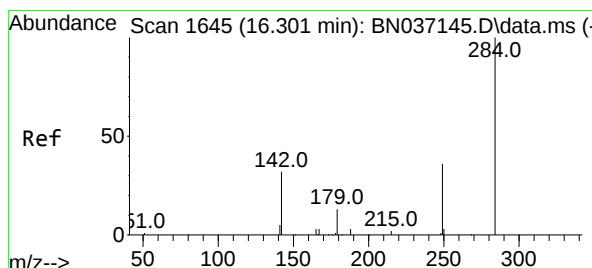
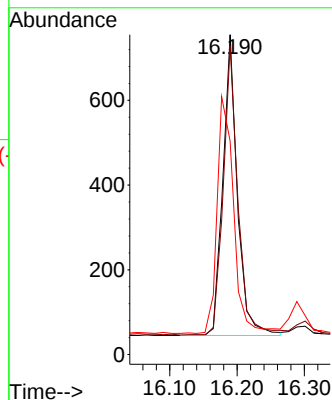
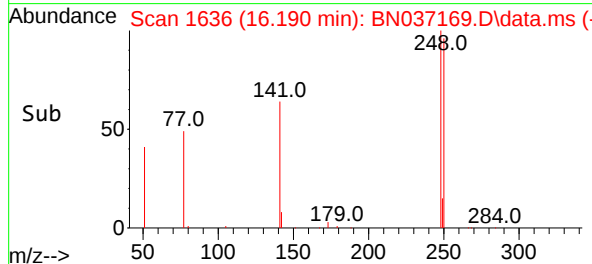
Instrument :  
BNA\_N  
ClientSampleId :  
PB168238BSD



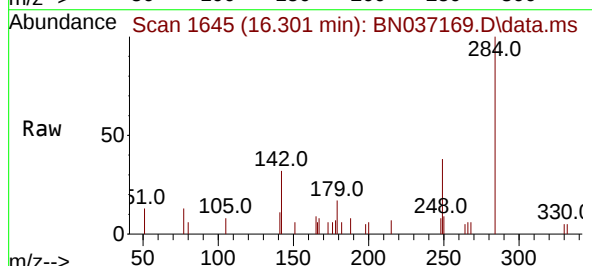
Tgt Ion:248 Resp: 106  
Ion Ratio Lower Upper  
248 100  
250 96.6 76.1 114.1  
141 66.8 60.1 90.1

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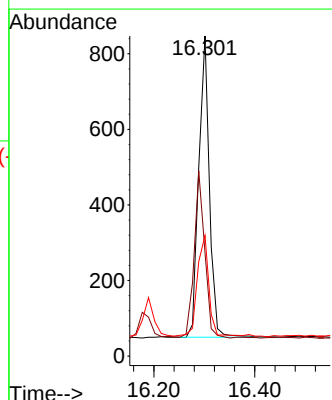
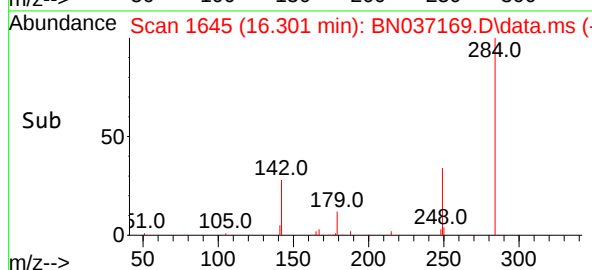
Reviewed By :Rahul Chavli 06/04/2025  
Supervised By :Jagrut Upadhyay 06/05/2025

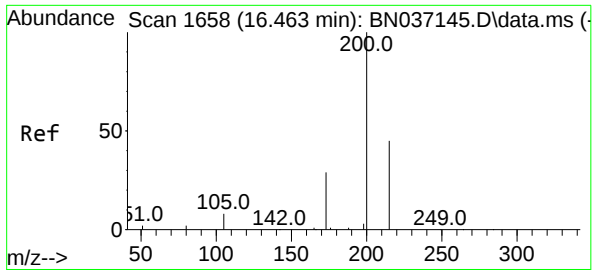


#22  
Hexachlorobenzene  
Concen: 0.374 ng  
RT: 16.301 min Scan# 1645  
Delta R.T. 0.000 min  
Lab File: BN037169.D  
Acq: 04 Jun 2025 13:03



Tgt Ion:284 Resp: 1169  
Ion Ratio Lower Upper  
284 100  
142 54.7 44.0 66.0  
249 35.6 29.7 44.5





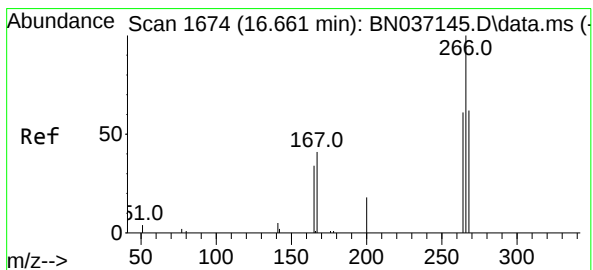
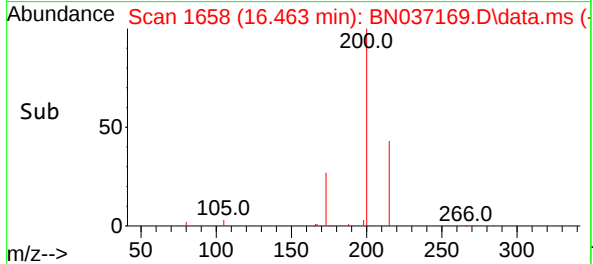
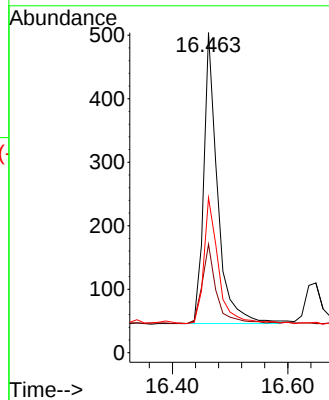
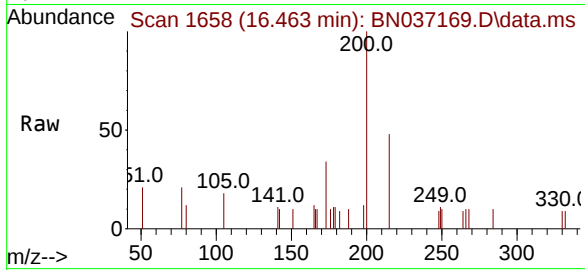
#23  
Atrazine  
Concen: 0.319 ng  
RT: 16.463 min Scan# 1658  
Delta R.T. 0.000 min  
Lab File: BN037169.D  
Acq: 04 Jun 2025 13:03

Instrument :  
BNA\_N  
ClientSampleId :  
PB168238BSD

Tgt Ion:200 Resp: 761  
Ion Ratio Lower Upper  
200 100  
173 33.9 28.1 42.1  
215 48.4 39.3 58.9

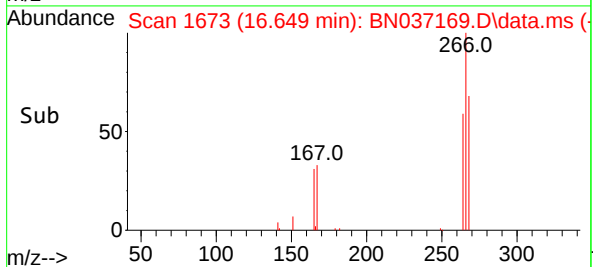
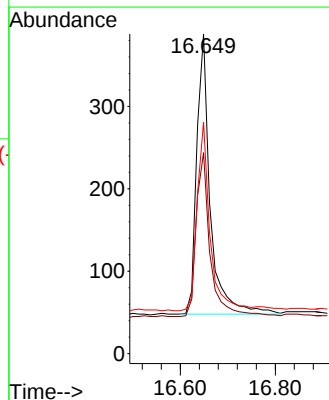
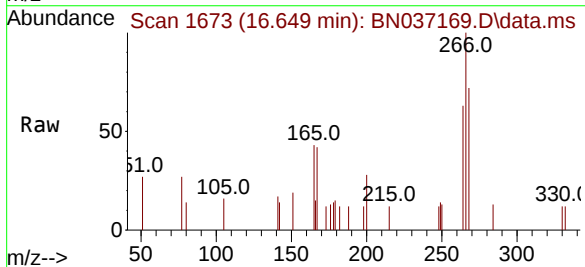
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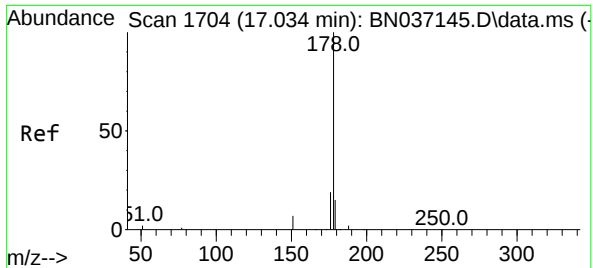
Reviewed By :Rahul Chavli 06/04/2025  
Supervised By :Jagrut Upadhyay 06/05/2025



#24  
Pentachlorophenol  
Concen: 0.574 ng  
RT: 16.649 min Scan# 1673  
Delta R.T. -0.012 min  
Lab File: BN037169.D  
Acq: 04 Jun 2025 13:03

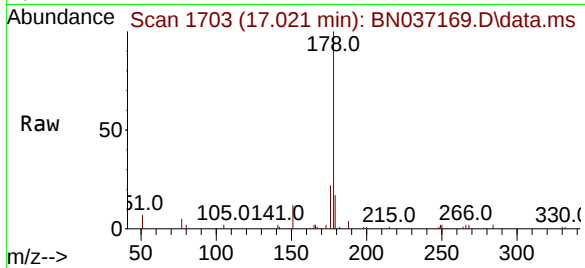
Tgt Ion:266 Resp: 671  
Ion Ratio Lower Upper  
266 100  
264 60.4 49.3 73.9  
268 66.2 49.0 73.4





#25  
Phenanthrene  
Concen: 0.392 ng  
RT: 17.021 min Scan# 1703  
Delta R.T. -0.012 min  
Lab File: BN037169.D  
Acq: 04 Jun 2025 13:03

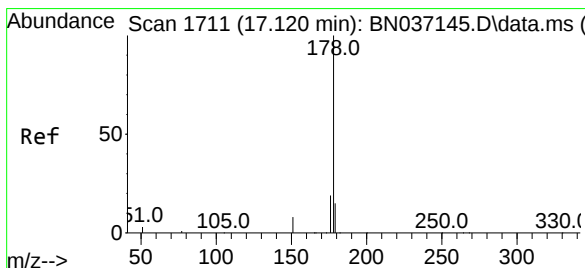
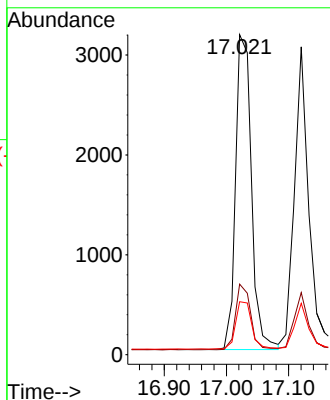
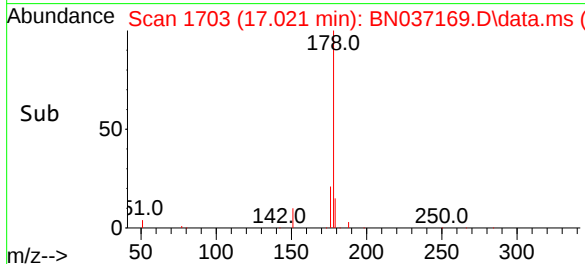
Instrument :  
BNA\_N  
ClientSampleId :  
PB168238BSD



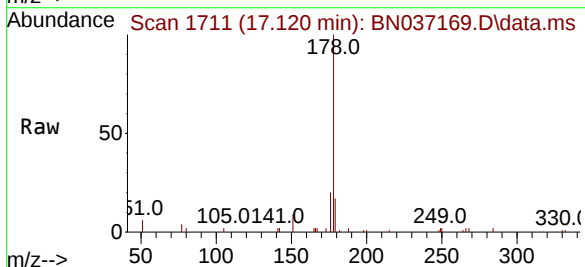
Tgt Ion:178 Resp: 561  
Ion Ratio Lower Upper  
178 100  
176 19.8 15.7 23.5  
179 15.4 12.3 18.5

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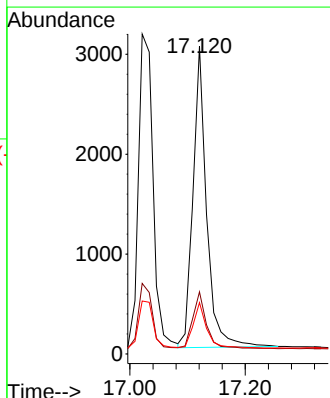
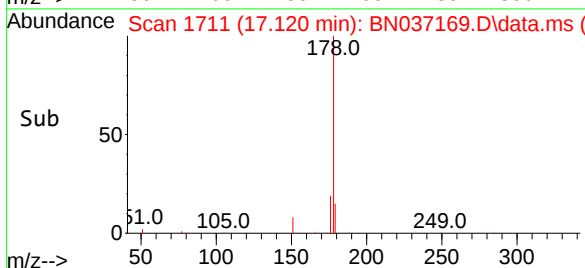
Reviewed By :Rahul Chavli 06/04/2025  
Supervised By :Jagrut Upadhyay 06/05/2025

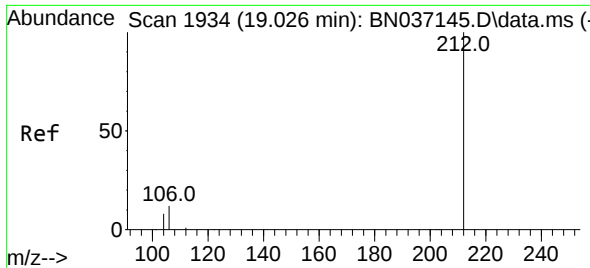


#26  
Anthracene  
Concen: 0.378 ng  
RT: 17.120 min Scan# 1711  
Delta R.T. 0.000 min  
Lab File: BN037169.D  
Acq: 04 Jun 2025 13:03



Tgt Ion:178 Resp: 4942  
Ion Ratio Lower Upper  
178 100  
176 19.3 15.2 22.8  
179 15.3 12.9 19.3





#27

Fluoranthene-d10

Concen: 0.297 ng

RT: 19.026 min Scan# 1934

Delta R.T. 0.000 min

Lab File: BN037169.D

Acq: 04 Jun 2025 13:03

Instrument :

BNA\_N

ClientSampleId :

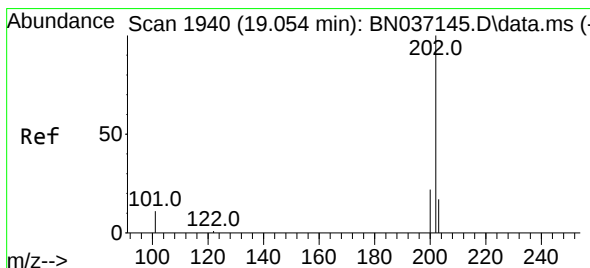
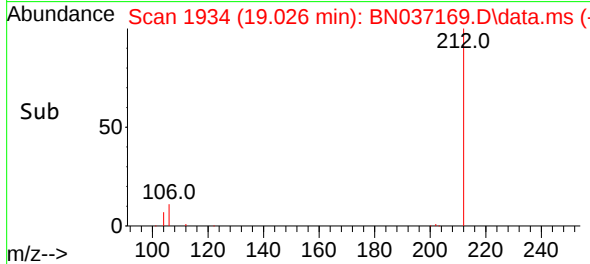
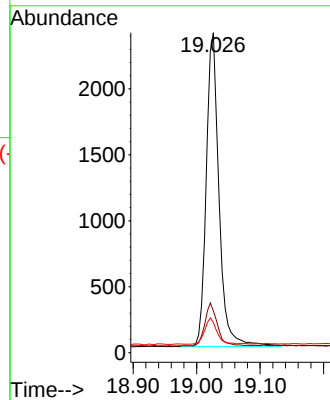
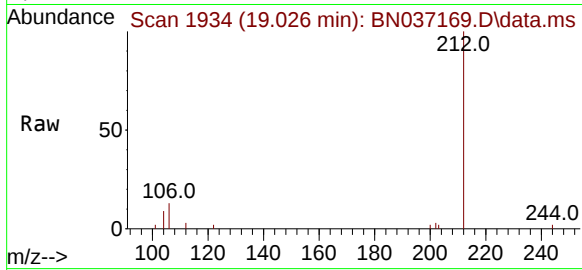
PB168238BSD

|           |       |       |      |
|-----------|-------|-------|------|
| Tgt Ion:  | 212   | Resp: | 333  |
| Ion Ratio | Lower | Upper |      |
| 212       | 100   |       |      |
| 106       | 13.1  | 10.6  | 15.8 |
| 104       | 7.9   | 6.6   | 9.8  |

**Manual Integrations**  
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Reviewed By :Rahul Chavli 06/04/2025

Supervised By :Jagrut Upadhyay 06/05/2025



#28

Fluoranthene

Concen: 0.338 ng

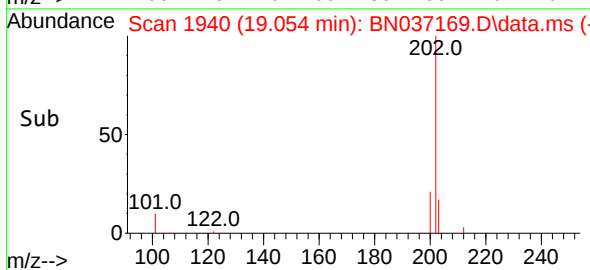
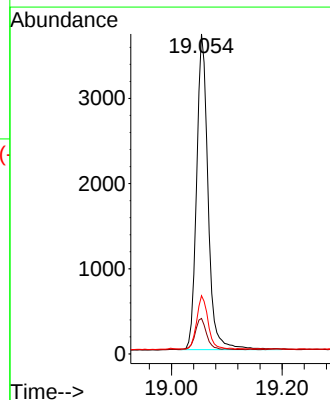
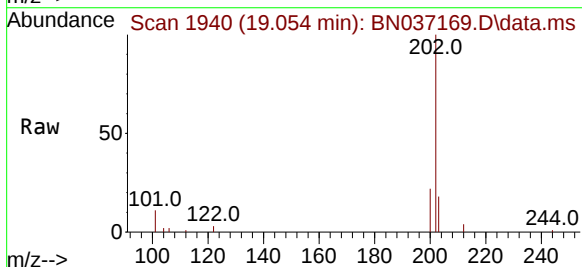
RT: 19.054 min Scan# 1940

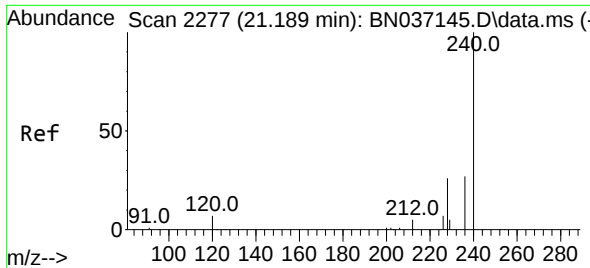
Delta R.T. 0.000 min

Lab File: BN037169.D

Acq: 04 Jun 2025 13:03

|           |       |       |      |
|-----------|-------|-------|------|
| Tgt Ion:  | 202   | Resp: | 5342 |
| Ion Ratio | Lower | Upper |      |
| 202       | 100   |       |      |
| 101       | 10.1  | 8.7   | 13.1 |
| 203       | 16.6  | 13.5  | 20.3 |





#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.189 min Scan# 21

Delta R.T. 0.000 min

Lab File: BN037169.D

Acq: 04 Jun 2025 13:03

Instrument :

BNA\_N

ClientSampleId :

PB168238BSD

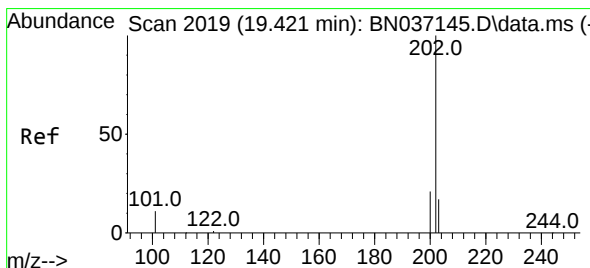
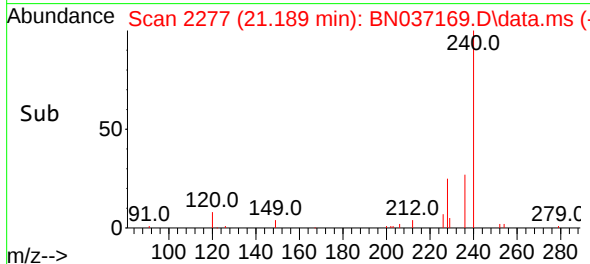
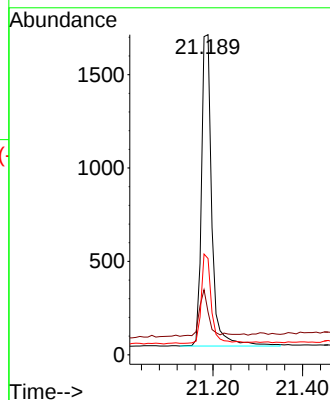
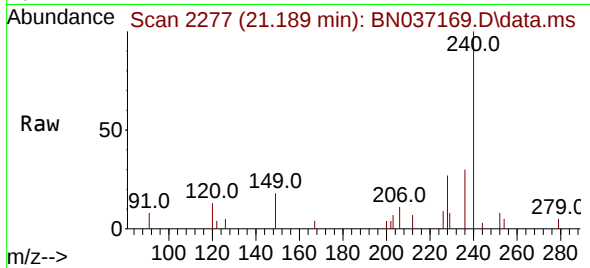
|           |       |       |      |
|-----------|-------|-------|------|
| Tgt Ion:  | 240   | Resp: | 2674 |
| Ion Ratio | Lower | Upper |      |
| 240       | 100   |       |      |
| 120       | 13.4  | 9.0   | 13.4 |
| 236       | 30.0  | 23.0  | 34.4 |

## Manual Integrations

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Reviewed By :Rahul Chavli 06/04/2025

Supervised By :Jagrut Upadhyay 06/05/2025



#30

Pyrene

Concen: 0.403 ng

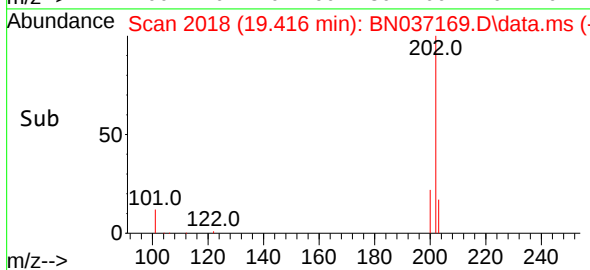
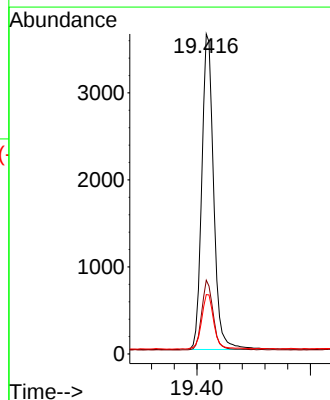
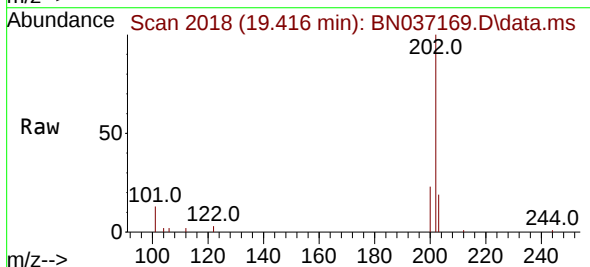
RT: 19.416 min Scan# 2018

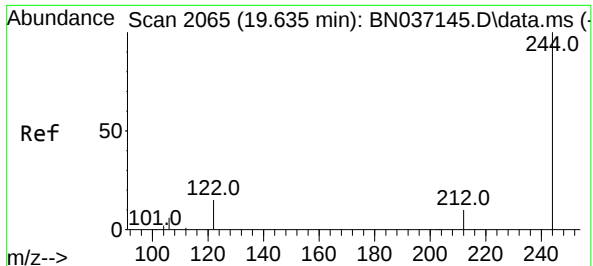
Delta R.T. -0.005 min

Lab File: BN037169.D

Acq: 04 Jun 2025 13:03

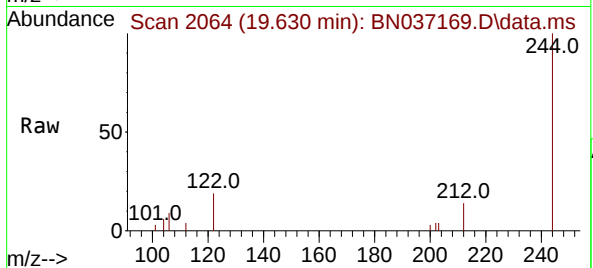
|           |       |       |      |
|-----------|-------|-------|------|
| Tgt Ion:  | 202   | Resp: | 5262 |
| Ion Ratio | Lower | Upper |      |
| 202       | 100   |       |      |
| 200       | 21.4  | 17.0  | 25.6 |
| 203       | 17.8  | 14.2  | 21.4 |





#31  
Terphenyl-d14  
Concen: 0.358 ng  
RT: 19.630 min Scan# 2064  
Delta R.T. -0.005 min  
Lab File: BN037169.D  
Acq: 04 Jun 2025 13:03

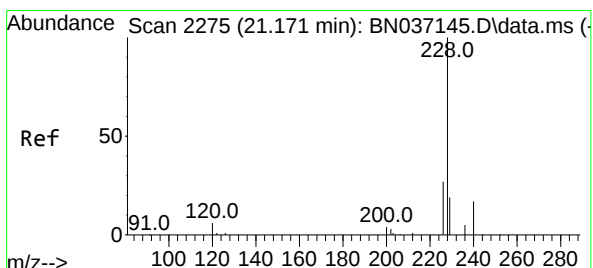
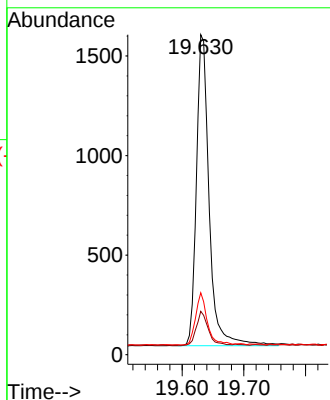
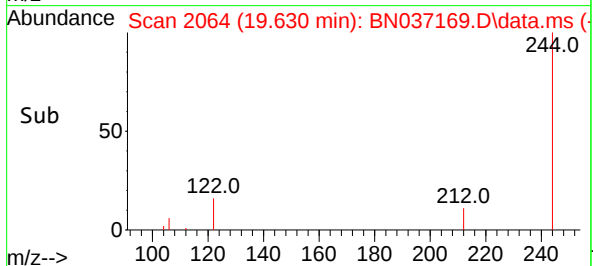
Instrument :  
BNA\_N  
ClientSampleId :  
PB168238BSD



Tgt Ion:244 Resp: 2250  
Ion Ratio Lower Upper  
244 100  
212 13.6 10.0 15.0  
122 19.4 13.2 19.8

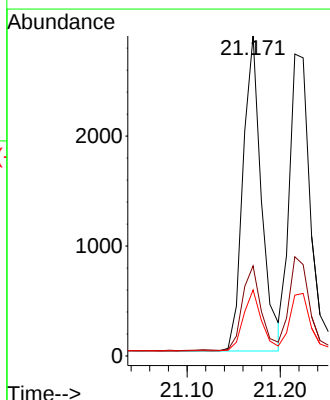
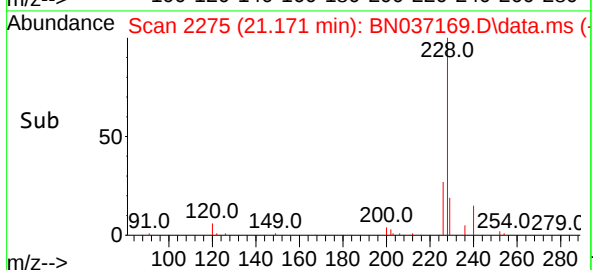
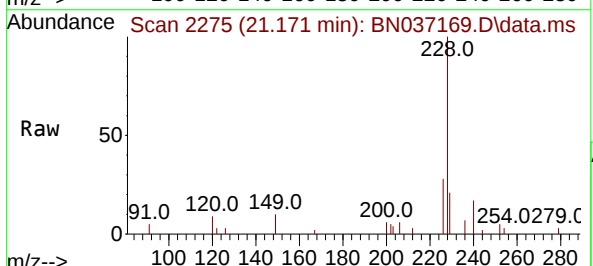
Manual Integrations  
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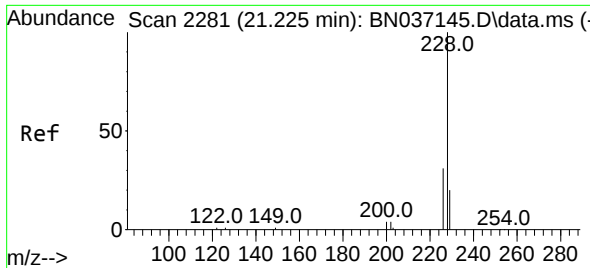
Reviewed By :Rahul Chavli 06/04/2025  
Supervised By :Jagrut Upadhyay 06/05/2025



#32  
Benzo(a)anthracene  
Concen: 0.408 ng  
RT: 21.171 min Scan# 2275  
Delta R.T. 0.000 min  
Lab File: BN037169.D  
Acq: 04 Jun 2025 13:03

Tgt Ion:228 Resp: 3952  
Ion Ratio Lower Upper  
228 100  
226 28.2 22.6 33.8  
229 20.7 16.2 24.2





#33

Chrysene

Concen: 0.407 ng

RT: 21.216 min Scan# 21

Delta R.T. -0.009 min

Lab File: BN037169.D

Acq: 04 Jun 2025 13:03

Instrument :

BNA\_N

ClientSampleId :

PB168238BSD

Tgt Ion:228 Resp: 439

Ion Ratio Lower Upper

228 100

226 32.8 25.2 37.8

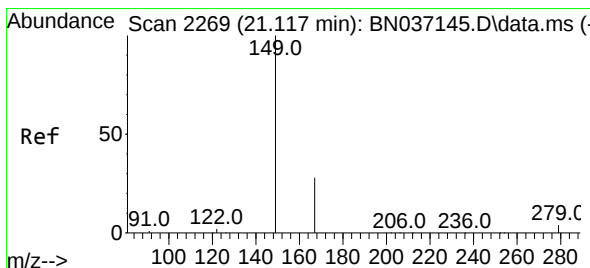
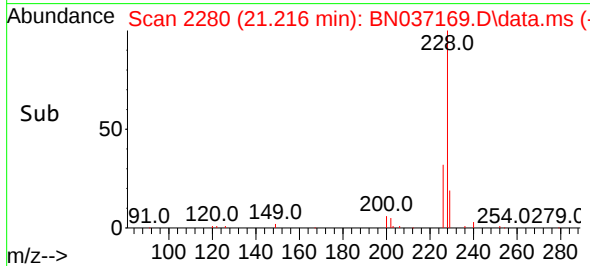
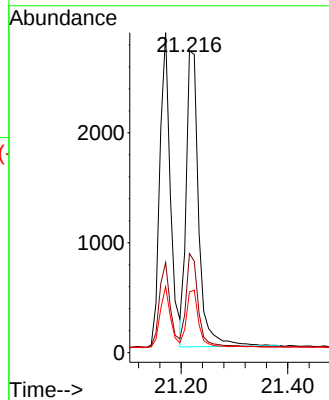
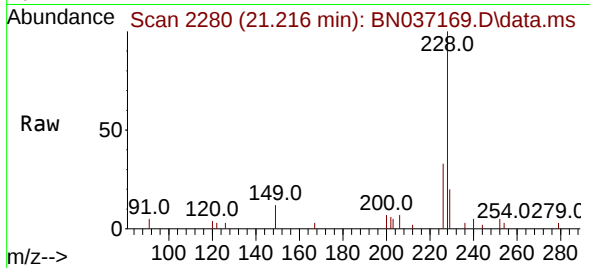
229 20.1 16.8 25.2

Manual Integrations

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Reviewed By :Rahul Chavli 06/04/2025

Supervised By :Jagrut Upadhyay 06/05/2025



#34

Bis(2-ethylhexyl)phthalate

Concen: 0.311 ng

RT: 21.108 min Scan# 2268

Delta R.T. -0.009 min

Lab File: BN037169.D

Acq: 04 Jun 2025 13:03

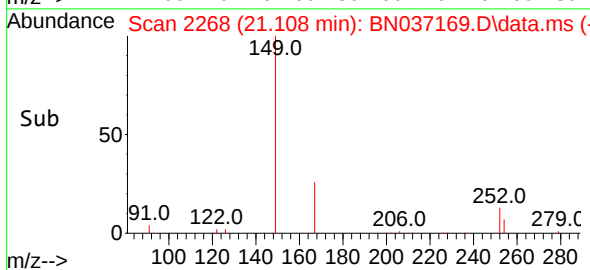
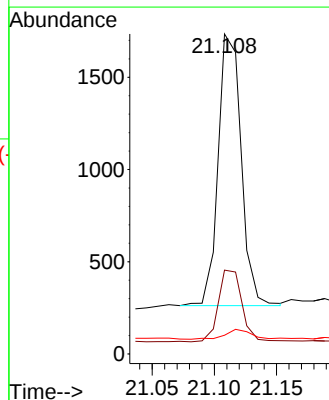
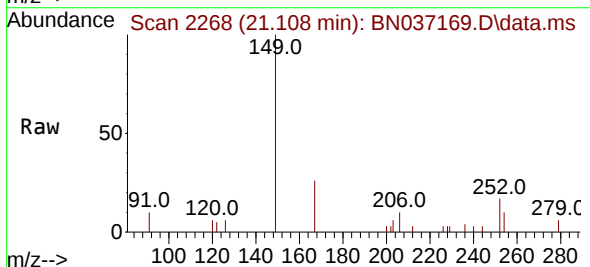
Tgt Ion:149 Resp: 1898

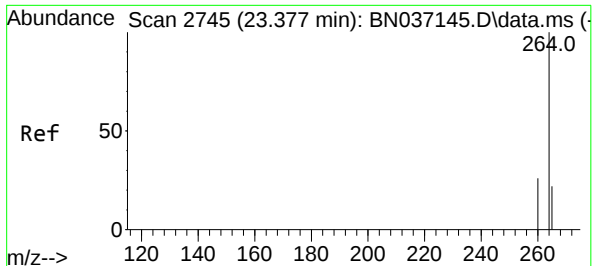
Ion Ratio Lower Upper

149 100

167 27.0 21.0 31.4

279 4.4 2.9 4.3#





#35

Perylene-d12

Concen: 0.400 ng

RT: 23.377 min Scan# 21

Delta R.T. 0.000 min

Lab File: BN037169.D

Acq: 04 Jun 2025 13:03

Instrument :

BNA\_N

ClientSampleId :

PB168238BSD

Tgt Ion:264 Resp: 255

Ion Ratio Lower Upper

264 100

260 27.3 22.1 33.1

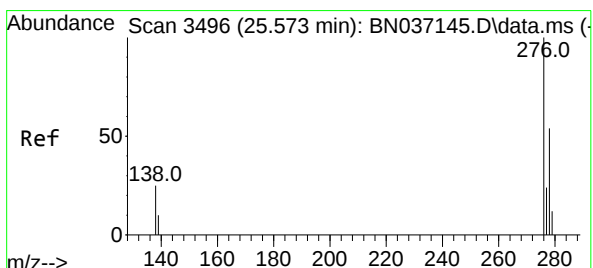
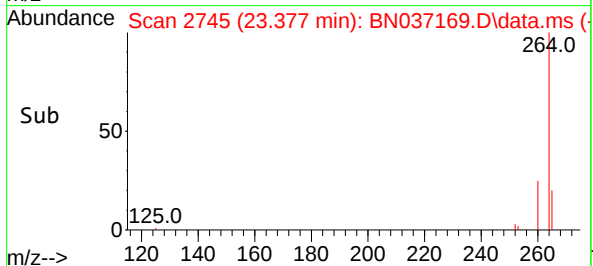
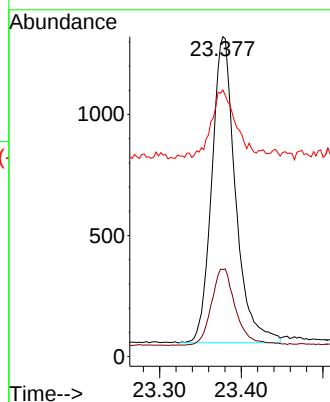
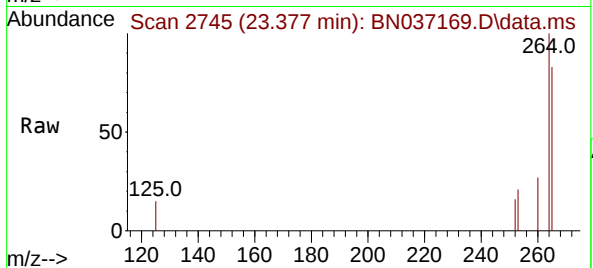
265 83.3 55.8 83.8

Manual Integrations

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Reviewed By :Rahul Chavli 06/04/2025

Supervised By :Jagrut Upadhyay 06/05/2025



#36

Indeno(1,2,3-cd)pyrene

Concen: 0.460 ng

RT: 25.573 min Scan# 3496

Delta R.T. 0.000 min

Lab File: BN037169.D

Acq: 04 Jun 2025 13:03

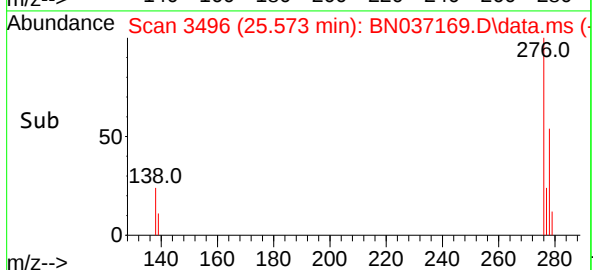
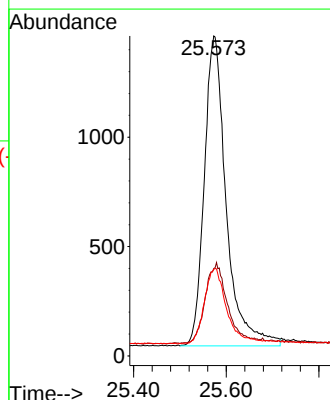
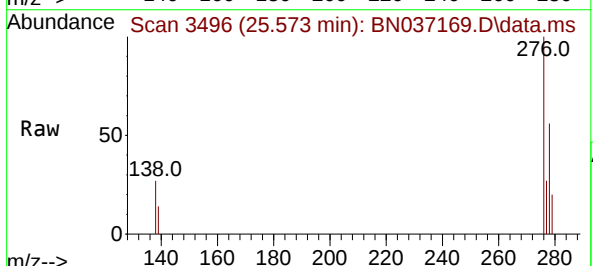
Tgt Ion:276 Resp: 4667

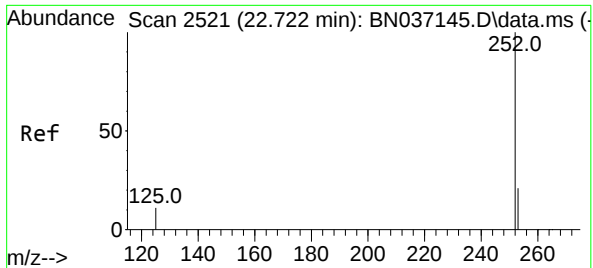
Ion Ratio Lower Upper

276 100

138 26.5 21.0 31.6

277 24.6 19.4 29.2





#37

Benzo(b)fluoranthene

Concen: 0.367 ng

RT: 22.722 min Scan# 2521

Delta R.T. 0.000 min

Lab File: BN037169.D

Acq: 04 Jun 2025 13:03

Instrument :

BNA\_N

ClientSampleId :

PB168238BSD

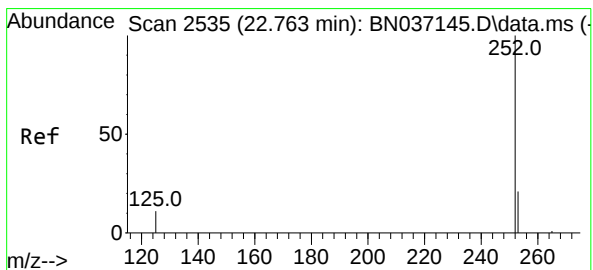
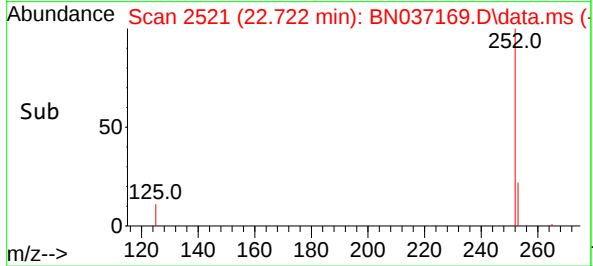
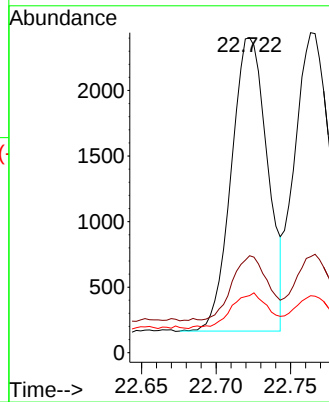
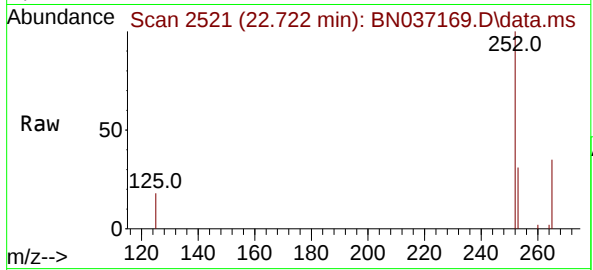
|           |       |       |      |
|-----------|-------|-------|------|
| Tgt Ion:  | 252   | Resp: | 3779 |
| Ion Ratio | Lower | Upper |      |
| 252       | 100   |       |      |
| 253       | 30.8  | 22.3  | 33.5 |
| 125       | 18.2  | 13.2  | 19.8 |

Manual Integrations

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Reviewed By :Rahul Chavli 06/04/2025

Supervised By :Jagrut Upadhyay 06/05/2025



#38

Benzo(k)fluoranthene

Concen: 0.392 ng

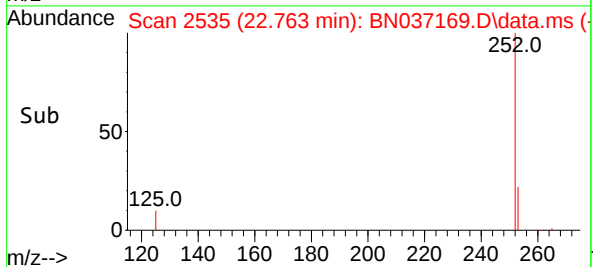
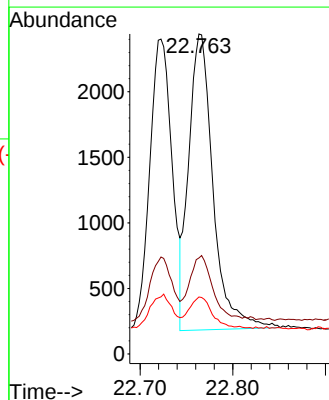
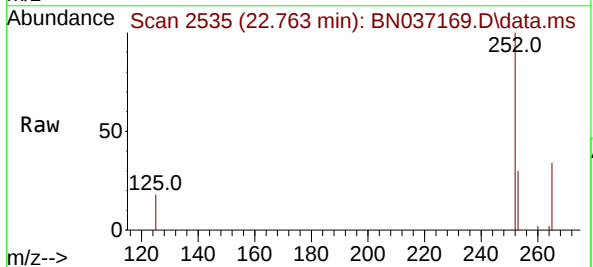
RT: 22.763 min Scan# 2535

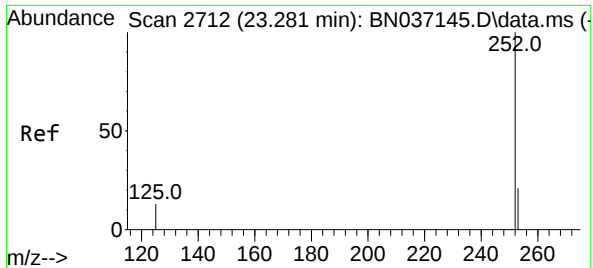
Delta R.T. 0.000 min

Lab File: BN037169.D

Acq: 04 Jun 2025 13:03

|           |       |       |      |
|-----------|-------|-------|------|
| Tgt Ion:  | 252   | Resp: | 4120 |
| Ion Ratio | Lower | Upper |      |
| 252       | 100   |       |      |
| 253       | 30.0  | 22.2  | 33.4 |
| 125       | 17.8  | 13.2  | 19.8 |





#39

Benzo(a)pyrene

Concen: 0.409 ng

RT: 23.284 min Scan# 21

Delta R.T. 0.003 min

Lab File: BN037169.D

Acq: 04 Jun 2025 13:03

Instrument :

BNA\_N

ClientSampleId :

PB168238BSD

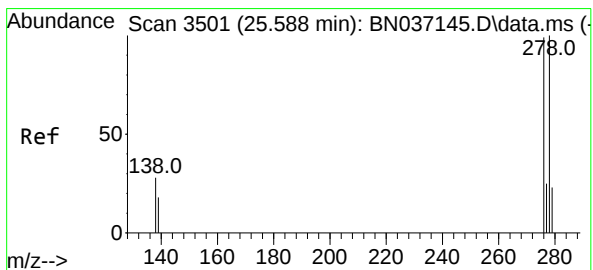
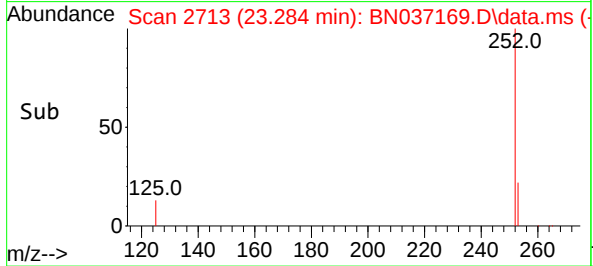
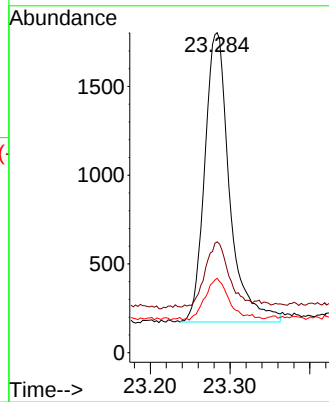
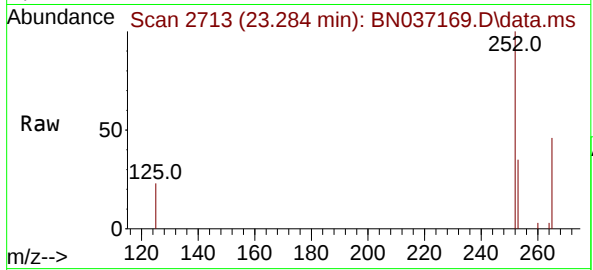
|           |       |       |      |
|-----------|-------|-------|------|
| Tgt Ion:  | 252   | Resp: | 3520 |
| Ion Ratio | Lower | Upper |      |
| 252       | 100   |       |      |
| 253       | 34.7  | 25.0  | 37.4 |
| 125       | 23.2  | 17.0  | 25.6 |

Manual Integrations

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Reviewed By :Rahul Chavli 06/04/2025

Supervised By :Jagrut Upadhyay 06/05/2025



#40

Dibenzo(a,h)anthracene

Concen: 0.457 ng

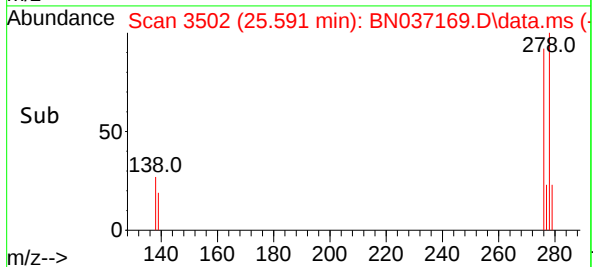
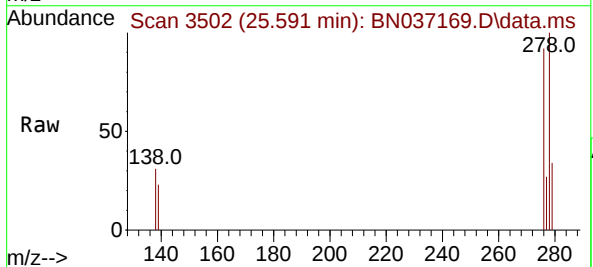
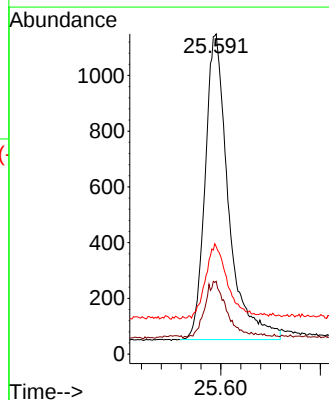
RT: 25.591 min Scan# 3502

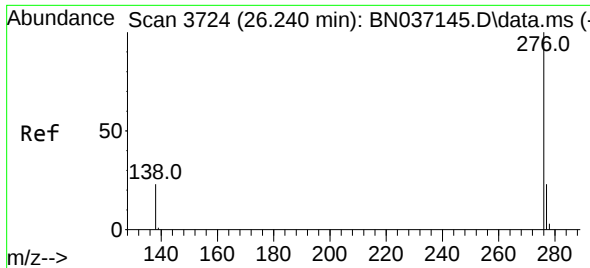
Delta R.T. 0.003 min

Lab File: BN037169.D

Acq: 04 Jun 2025 13:03

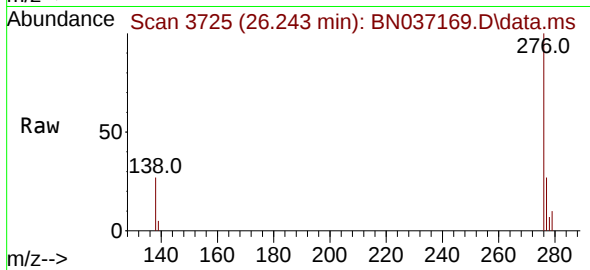
|           |       |       |      |
|-----------|-------|-------|------|
| Tgt Ion:  | 278   | Resp: | 3574 |
| Ion Ratio | Lower | Upper |      |
| 278       | 100   |       |      |
| 139       | 22.7  | 17.6  | 26.4 |
| 279       | 33.6  | 26.0  | 39.0 |





#41  
Benzo(g,h,i)perylene  
Concen: 0.437 ng  
RT: 26.243 min Scan# 31  
Delta R.T. 0.003 min  
Lab File: BN037169.D  
Acq: 04 Jun 2025 13:03

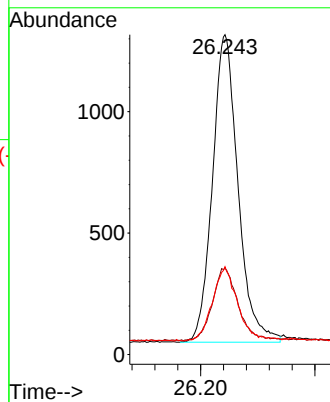
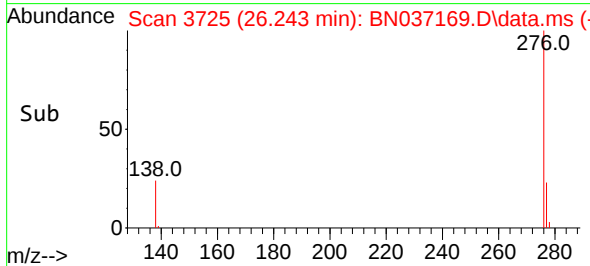
Instrument :  
BNA\_N  
ClientSampleId :  
PB168238BSD



Tgt Ion: 276 Resp: 393  
Ion Ratio Lower Upper  
276 100  
277 27.0 20.9 31.3  
138 27.5 20.8 31.2

Manual Integrations  
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Reviewed By :Rahul Chavli 06/04/2025  
Supervised By :Jagrut Upadhyay 06/05/2025





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

## Manual Integration Report

Sequence:

BN060325

Instrument

BNA\_n

Sample ID

File ID

Parameter

Review By

Review On

Supervised  
By

Supervised On

Reason

## Manual Integration Report

|           |          |            |       |
|-----------|----------|------------|-------|
| Sequence: | BN060425 | Instrument | BNA_n |
|-----------|----------|------------|-------|

| Sample ID   | File ID    | Parameter                   | Review By | Review On              | Supervised By | Supervised On           | Reason                      |
|-------------|------------|-----------------------------|-----------|------------------------|---------------|-------------------------|-----------------------------|
| PB168238BS  | BN037168.D | 2-Methylnaphthalene-d1<br>0 | Rahul     | 6/4/2025 4:53:12<br>PM | Jagrut        | 6/5/2025 10:47:11<br>AM | Peak Integrated by Software |
| PB168238BSD | BN037169.D | 2-Methylnaphthalene-d1<br>0 | Rahul     | 6/4/2025 4:53:09<br>PM | Jagrut        | 6/5/2025 10:47:13<br>AM | Peak Integrated by Software |

Instrument ID: **BNA\_N**

**Daily Analysis Runlog For Sequence/QC Batch ID # BN060325**

|                          |                                                  |                   |                                               |
|--------------------------|--------------------------------------------------|-------------------|-----------------------------------------------|
| Review By                | Rahul                                            | Review On         | 6/4/2025 11:44:25 AM                          |
| Supervise By             | Jagrut                                           | Supervise On      | 6/5/2025 10:56:16 AM                          |
| SubDirectory             | BN060325                                         | HP Acquire Method | BNA_N, 8270_SiM HP Processing Method bn060325 |
| <b>STD. NAME</b>         | <b>STD REF.#</b>                                 |                   |                                               |
| Tune/Reschk              | SP6757                                           |                   |                                               |
| Initial Calibration Stds | SP6781,SP6780,SP6779,SP6778,SP6777,SP6776,SP6775 |                   |                                               |
| CCC                      | SP6779                                           |                   |                                               |
| Internal Standard/PEM    | SP6740,1ul/100ul sample                          |                   |                                               |
| ICV/I.BLK                | SP6768                                           |                   |                                               |
| Surrogate Standard       |                                                  |                   |                                               |
| MS/MSD Standard          |                                                  |                   |                                               |
| LCS Standard             |                                                  |                   |                                               |

| Sr# | SampleId   | Data File Name | Date-Time         | Operator | Status   |
|-----|------------|----------------|-------------------|----------|----------|
| 1   | DFTPP      | BN037142.D     | 03 Jun 2025 10:21 | RC/JU    | Ok       |
| 2   | SSTDIC0.1  | BN037143.D     | 03 Jun 2025 11:39 | RC/JU    | Ok       |
| 3   | SSTDIC0.2  | BN037144.D     | 03 Jun 2025 12:15 | RC/JU    | Ok       |
| 4   | SSTDIC0.4  | BN037145.D     | 03 Jun 2025 12:51 | RC/JU    | Ok       |
| 5   | SSTDIC0.8  | BN037146.D     | 03 Jun 2025 13:26 | RC/JU    | Ok       |
| 6   | SSTDIC1.6  | BN037147.D     | 03 Jun 2025 14:02 | RC/JU    | Ok       |
| 7   | SSTDIC3.2  | BN037148.D     | 03 Jun 2025 14:38 | RC/JU    | Ok       |
| 8   | SSTDIC5.0  | BN037149.D     | 03 Jun 2025 15:14 | RC/JU    | Ok       |
| 9   | SSTDICV0.4 | BN037150.D     | 03 Jun 2025 15:53 | RC/JU    | Ok       |
| 10  | PB168238BL | BN037151.D     | 03 Jun 2025 17:05 | RC/JU    | Not Ok   |
| 11  | Q2181-01   | BN037152.D     | 03 Jun 2025 17:41 | RC/JU    | Dilution |
| 12  | Q2181-01DL | BN037153.D     | 03 Jun 2025 18:18 | RC/JU    | Ok       |
| 13  | SSTDIC0.4  | BN037154.D     | 03 Jun 2025 18:54 | RC/JU    | Ok       |
| 14  | DFTPP      | BN037155.D     | 03 Jun 2025 20:10 | RC/JU    | Ok       |
| 15  | SSTDIC0.4  | BN037156.D     | 03 Jun 2025 20:49 | RC/JU    | Ok       |
| 16  | PB168238BL | BN037157.D     | 03 Jun 2025 21:25 | RC/JU    | Not Ok   |
| 17  | Q2162-03   | BN037158.D     | 03 Jun 2025 22:01 | RC/JU    | Ok       |
| 18  | Q2162-07   | BN037159.D     | 03 Jun 2025 22:37 | RC/JU    | Ok       |
| 19  | Q2162-09   | BN037160.D     | 03 Jun 2025 23:13 | RC/JU    | Ok       |
| 20  | Q2162-10   | BN037161.D     | 03 Jun 2025 23:49 | RC/JU    | Ok       |
| 21  | PB168238BS | BN037162.D     | 04 Jun 2025 00:25 | RC/JU    | Not Ok   |

Instrument ID: **BNA\_N**

**Daily Analysis Runlog For Sequence/QC Batch ID # BN060325**

| Review By                | Rahul                                            | Review On         | 6/4/2025 11:44:25 AM                          |
|--------------------------|--------------------------------------------------|-------------------|-----------------------------------------------|
| Supervise By             | Jagrut                                           | Supervise On      | 6/5/2025 10:56:16 AM                          |
| SubDirectory             | BN060325                                         | HP Acquire Method | BNA_N, 8270_SiM HP Processing Method bn060325 |
| STD. NAME                | STD REF.#                                        |                   |                                               |
| Tune/Reschk              | SP6757                                           |                   |                                               |
| Initial Calibration Stds | SP6781,SP6780,SP6779,SP6778,SP6777,SP6776,SP6775 |                   |                                               |
| CCC                      | SP6779                                           |                   |                                               |
| Internal Standard/PEM    | SP6740,1ul/100ul sample                          |                   |                                               |
| ICV/I.BLK                | SP6768                                           |                   |                                               |
| Surrogate Standard       |                                                  |                   |                                               |
| MS/MSD Standard          |                                                  |                   |                                               |
| LCS Standard             |                                                  |                   |                                               |

|    |             |            |                   |       |        |
|----|-------------|------------|-------------------|-------|--------|
| 22 | PB168238BSD | BN037163.D | 04 Jun 2025 01:01 | RC/JU | Not Ok |
| 23 | SSTDCCC0.4  | BN037164.D | 04 Jun 2025 02:13 | RC/JU | Ok     |

M : Manual Integration

Instrument ID: **BNA\_N**

**Daily Analysis Runlog For Sequence/QC Batch ID # BN060425**

|                          |                                                  |                   |                                               |
|--------------------------|--------------------------------------------------|-------------------|-----------------------------------------------|
| Review By                | Rahul                                            | Review On         | 6/4/2025 4:55:38 PM                           |
| Supervise By             | Jagrut                                           | Supervise On      | 6/5/2025 10:47:25 AM                          |
| SubDirectory             | BN060425                                         | HP Acquire Method | BNA_N, 8270_SiM HP Processing Method bn060325 |
| <b>STD. NAME</b>         | <b>STD REF.#</b>                                 |                   |                                               |
| Tune/Reschk              | SP6757                                           |                   |                                               |
| Initial Calibration Stds | SP6781,SP6780,SP6779,SP6778,SP6777,SP6776,SP6775 |                   |                                               |
| CCC                      | SP6779                                           |                   |                                               |
| Internal Standard/PEM    | SP6740,1ul/100ul sample                          |                   |                                               |
| ICV/I.BLK                | SP6768                                           |                   |                                               |
| Surrogate Standard       |                                                  |                   |                                               |
| MS/MSD Standard          |                                                  |                   |                                               |
| LCS Standard             |                                                  |                   |                                               |

| Sr# | SampleId    | Data File Name | Date-Time         | Operator | Status |
|-----|-------------|----------------|-------------------|----------|--------|
| 1   | DFTPP       | BN037165.D     | 04 Jun 2025 09:04 | RC/JU    | Ok     |
| 2   | SSTDCCC0.4  | BN037166.D     | 04 Jun 2025 10:27 | RC/JU    | Ok     |
| 3   | PB168238BL  | BN037167.D     | 04 Jun 2025 11:03 | RC/JU    | Ok     |
| 4   | PB168238BS  | BN037168.D     | 04 Jun 2025 12:27 | RC/JU    | Ok,M   |
| 5   | PB168238BSD | BN037169.D     | 04 Jun 2025 13:03 | RC/JU    | Ok,M   |
| 6   | SSTDCCC0.4  | BN037170.D     | 04 Jun 2025 13:53 | RC/JU    | Ok     |

M : Manual Integration

Instrument ID: BNA\_N

### Daily Analysis Runlog For Sequence/QC Batch ID # BN060325

|              |          |                   |                                           |
|--------------|----------|-------------------|-------------------------------------------|
| Review By    | Rahul    | Review On         | 6/4/2025 11:44:25 AM                      |
| Supervise By | Jagrut   | Supervise On      | 6/5/2025 10:56:16 AM                      |
| SubDirectory | BN060325 | HP Acquire Method | BNA_N, 8270_HP Processing Method bn060325 |

| STD. NAME                | STD REF.#                                        |
|--------------------------|--------------------------------------------------|
| Tune/Reschk              | SP6757                                           |
| Initial Calibration Stds | SP6781,SP6780,SP6779,SP6778,SP6777,SP6776,SP6775 |
| CCC                      | SP6779                                           |
| Internal Standard/PEM    | SP6740,1ul/100ul sample                          |
| ICV/I.BLK                | SP6768                                           |
| Surrogate Standard       |                                                  |
| MS/MSD Standard          |                                                  |
| LCS Standard             |                                                  |

| Sr# | SampleID    | ClientID            | Data File Name | Date-Time         | Comment                              | Operator | Status   |
|-----|-------------|---------------------|----------------|-------------------|--------------------------------------|----------|----------|
| 1   | DFTPP       | DFTPP               | BN037142.D     | 03 Jun 2025 10:21 |                                      | RC/JU    | Ok       |
| 2   | SSTDICC0.1  | SSTDICC0.1          | BN037143.D     | 03 Jun 2025 11:39 | Compound #20,24 removed from 0.1 PPM | RC/JU    | Ok       |
| 3   | SSTDICC0.2  | SSTDICC0.2          | BN037144.D     | 03 Jun 2025 12:15 |                                      | RC/JU    | Ok       |
| 4   | SSTDICCC0.4 | SSTDICCC0.4         | BN037145.D     | 03 Jun 2025 12:51 | Compound #20,24 kept on LR.          | RC/JU    | Ok       |
| 5   | SSTDICC0.8  | SSTDICC0.8          | BN037146.D     | 03 Jun 2025 13:26 |                                      | RC/JU    | Ok       |
| 6   | SSTDICC1.6  | SSTDICC1.6          | BN037147.D     | 03 Jun 2025 14:02 |                                      | RC/JU    | Ok       |
| 7   | SSTDICC3.2  | SSTDICC3.2          | BN037148.D     | 03 Jun 2025 14:38 | Method is good for DOD and NONDOD.   | RC/JU    | Ok       |
| 8   | SSTDICC5.0  | SSTDICC5.0          | BN037149.D     | 03 Jun 2025 15:14 |                                      | RC/JU    | Ok       |
| 9   | SSTDICV0.4  | ICVBN060325         | BN037150.D     | 03 Jun 2025 15:53 |                                      | RC/JU    | Ok       |
| 10  | PB168238BL  | PB168238BL          | BN037151.D     | 03 Jun 2025 17:05 | Not Used                             | RC/JU    | Not Ok   |
| 11  | Q2181-01    | 38072-062624        | BN037152.D     | 03 Jun 2025 17:41 | Need 50X Dilution                    | RC/JU    | Dilution |
| 12  | Q2181-01DL  | 38072-062624DL      | BN037153.D     | 03 Jun 2025 18:18 |                                      | RC/JU    | Ok       |
| 13  | SSTDCCC0.4  | SSTDCCC0.4EC        | BN037154.D     | 03 Jun 2025 18:54 |                                      | RC/JU    | Ok       |
| 14  | DFTPP       | DFTPP               | BN037155.D     | 03 Jun 2025 20:10 |                                      | RC/JU    | Ok       |
| 15  | SSTDCCC0.4  | SSTDCCC0.4          | BN037156.D     | 03 Jun 2025 20:49 |                                      | RC/JU    | Ok       |
| 16  | PB168238BL  | PB168238BL          | BN037157.D     | 03 Jun 2025 21:25 | Not Used                             | RC/JU    | Not Ok   |
| 17  | Q2162-03    | BP-VPB-182-GW-580-5 | BN037158.D     | 03 Jun 2025 22:01 |                                      | RC/JU    | Ok       |

Instrument ID: BNA\_N

**Daily Analysis Runlog For Sequence/QC Batch ID # BN060325**

|              |          |                   |                                           |
|--------------|----------|-------------------|-------------------------------------------|
| Review By    | Rahul    | Review On         | 6/4/2025 11:44:25 AM                      |
| Supervise By | Jagrut   | Supervise On      | 6/5/2025 10:56:16 AM                      |
| SubDirectory | BN060325 | HP Acquire Method | BNA_N, 8270_HP Processing Method bn060325 |

| STD. NAME                | STD REF.#                                        |
|--------------------------|--------------------------------------------------|
| Tune/Reschk              | SP6757                                           |
| Initial Calibration Stds | SP6781,SP6780,SP6779,SP6778,SP6777,SP6776,SP6775 |
| CCC                      | SP6779                                           |
| Internal Standard/PEM    | SP6740,1ul/100ul sample                          |
| ICV/I.BLK                | SP6768                                           |
| Surrogate Standard       |                                                  |
| MS/MSD Standard          |                                                  |
| LCS Standard             |                                                  |

|    |             |                     |            |                   |                                             |       |        |
|----|-------------|---------------------|------------|-------------------|---------------------------------------------|-------|--------|
| 18 | Q2162-07    | BP-VPB-182-GW-620-6 | BN037159.D | 03 Jun 2025 22:37 |                                             | RC/JU | Ok     |
| 19 | Q2162-09    | BP-VPB-182-DUP-2025 | BN037160.D | 03 Jun 2025 23:13 |                                             | RC/JU | Ok     |
| 20 | Q2162-10    | BP-VPB-182-EB-20250 | BN037161.D | 03 Jun 2025 23:49 |                                             | RC/JU | Ok     |
| 21 | PB168238BS  | PB168238BS          | BN037162.D | 04 Jun 2025 00:25 | Recovery Fail for 1,4 Dioxane from low side | RC/JU | Not Ok |
| 22 | PB168238BSD | PB168238BSD         | BN037163.D | 04 Jun 2025 01:01 | Recovery Fail for 1,4 Dioxane from low side | RC/JU | Not Ok |
| 23 | SSTDCCC0.4  | SSTDCCC0.4EC        | BN037164.D | 04 Jun 2025 02:13 |                                             | RC/JU | Ok     |

M : Manual Integration

Instrument ID: BNA\_N

**Daily Analysis Runlog For Sequence/QC Batch ID # BN060425**

|              |          |                   |                                           |
|--------------|----------|-------------------|-------------------------------------------|
| Review By    | Rahul    | Review On         | 6/4/2025 4:55:38 PM                       |
| Supervise By | Jagrut   | Supervise On      | 6/5/2025 10:47:25 AM                      |
| SubDirectory | BN060425 | HP Acquire Method | BNA_N, 8270_HP Processing Method bn060325 |

| STD. NAME                | STD REF.#                                        |
|--------------------------|--------------------------------------------------|
| Tune/Reschk              | SP6757                                           |
| Initial Calibration Stds | SP6781,SP6780,SP6779,SP6778,SP6777,SP6776,SP6775 |
| CCC                      | SP6779                                           |
| Internal Standard/PEM    | SP6740,1ul/100ul sample                          |
| ICV/I.BLK                | SP6768                                           |
| Surrogate Standard       |                                                  |
| MS/MSD Standard          |                                                  |
| LCS Standard             |                                                  |

| Sr# | SampleID    | ClientID     | Data File Name | Date-Time         | Comment | Operator | Status |
|-----|-------------|--------------|----------------|-------------------|---------|----------|--------|
| 1   | DFTPP       | DFTPP        | BN037165.D     | 04 Jun 2025 09:04 |         | RC/JU    | Ok     |
| 2   | SSTDCCC0.4  | SSTDCCC0.4   | BN037166.D     | 04 Jun 2025 10:27 |         | RC/JU    | Ok     |
| 3   | PB168238BL  | PB168238BL   | BN037167.D     | 04 Jun 2025 11:03 |         | RC/JU    | Ok     |
| 4   | PB168238BS  | PB168238BS   | BN037168.D     | 04 Jun 2025 12:27 |         | RC/JU    | Ok,M   |
| 5   | PB168238BSD | PB168238BSD  | BN037169.D     | 04 Jun 2025 13:03 |         | RC/JU    | Ok,M   |
| 6   | SSTDCCC0.4  | SSTDCCC0.4EC | BN037170.D     | 04 Jun 2025 13:53 |         | RC/JU    | Ok     |

M : Manual Integration

SOP ID: M3510C,3580A-Extraction SVOC-20

Clean Up SOP #: N/A

Extraction Start Date : 06/02/2025

Matrix : Water

Extraction Start Time : 08:55

Weigh By: N/A

Extraction By: RS

Extraction End Date : 06/02/2025

Balance check: N/A

Filter By: RJ

Extraction End Time : 18:50

Balance ID: N/A

pH Meter ID: N/A

Concentration By: EH

pH Strip Lot#: E3880

Hood ID: 4,6,7

Supervisor By : RUPESH

Extraction Method: ☒ Separatory Funnel

☐ Continuous Liquid/Liquid

☐ Sonication

☐ Waste Dilution

☐ Soxhlet

| Standard Name | MLS USED | Concentration ug/mL | STD REF. # FROM LOG |
|---------------|----------|---------------------|---------------------|
| Spike Sol 1   | 1.0ML    | 0.4 PPM             | SP6756              |
| Surrogate     | 1.0ML    | 0.4 PPM             | SP6758              |
| N/A           | N/A      | N/A                 | N/A                 |
| N/A           | N/A      | N/A                 | N/A                 |
| N/A           | N/A      | N/A                 | N/A                 |

| Chemical Used      | ML/SAMPLE USED | Lot Number |
|--------------------|----------------|------------|
| Methylene Chloride | N/A            | E3939      |
| Baked Na2SO4       | N/A            | EP2620     |
| 10N NaOH           | N/A            | EP2609     |
| H2SO4 1:1          | N/A            | EP2610     |
| N/A                | N/A            | N/A        |
| N/A                | N/A            | N/A        |
| N/A                | N/A            | N/A        |
| N/A                | N/A            | N/A        |
| N/A                | N/A            | N/A        |
| N/A                | N/A            | N/A        |
| N/A                | N/A            | N/A        |
| N/A                | N/A            | N/A        |
| N/A                | N/A            | N/A        |
| N/A                | N/A            | N/A        |
| N/A                | N/A            | N/A        |

## Extraction Conformance/Non-Conformance Comments:

1.5 ML Vial lot# 2210673. pH Adjusted<2 with 1:1 H2SO4 &>11 with 10 N NaOH, Q2162-03 used Limited volume as sample is muddy & Q2162-07,09 Limited volume received. Q2181-01 added at 14:27.

KD Bath ID: WATER BATH-1,2

Envap ID: NEVAP-02

KD Bath Temperature: 60 °C

Envap Temperature: 40 °C

| Date / Time | Prepped Sample Relinquished By/Location | Received By/Location |
|-------------|-----------------------------------------|----------------------|
| 6/2/25      | RS (E-4-6-7)                            | Relsvoc              |
| 18:55       | Preparation Group                       | Analysis Group       |

Analytical Method: M3510C,3580A-Extraction SVOC-20

Concentration Date: 06/02/2025

| Sample ID       | Client Sample ID            | Test               | g / mL | PH | Surr/Spike By: |            | Final Vol.<br>(mL) | JarID | Comments | Prep<br>Pos |
|-----------------|-----------------------------|--------------------|--------|----|----------------|------------|--------------------|-------|----------|-------------|
|                 |                             |                    |        |    | AddedBy        | VerifiedBy |                    |       |          |             |
| PB168238BL      | SBLK238                     | SVOC-SIMGrou<br>p1 | 1000   | 6  | RUPEsh         | ritesh     | 1                  |       |          | SEP-1       |
| PB168238BS      | SLCS238                     | SVOC-SIMGrou<br>p1 | 1000   | 6  | RUPEsh         | ritesh     | 1                  |       |          | 2           |
| PB168238BS<br>D | SLCSD238                    | SVOC-SIMGrou<br>p1 | 1000   | 6  | RUPEsh         | ritesh     | 1                  |       |          | 3           |
| Q2162-03        | BP-VPB-182-GW-580-582       | SVOC-SIMGrou<br>p1 | 100    | 6  | RUPEsh         | ritesh     | 1                  |       | Muddy    | 4           |
| Q2162-07        | BP-VPB-182-GW-620-622       | SVOC-SIMGrou<br>p1 | 550    | 6  | RUPEsh         | ritesh     | 1                  | C     |          | 5           |
| Q2162-09        | BP-VPB-182-DUP-202505<br>28 | SVOC-SIMGrou<br>p1 | 500    | 6  | RUPEsh         | ritesh     | 1                  |       |          | 6           |
| Q2162-10        | BP-VPB-182-EB-2025052<br>9  | SVOC-SIMGrou<br>p1 | 890    | 6  | RUPEsh         | ritesh     | 1                  | C     |          | 7           |
| Q2181-01        | 38072-062624                | SVOCMS<br>Group5   | 1000   | 6  | RUPEsh         | ritesh     | 1                  |       |          | 8           |

*[Handwritten signature]*

*RS*  
*6/2*

\* Extracts relinquished on the same date as received.

168238  
8:51

# WORKLIST(Hardcopy Internal Chain)

WorkList Name : Q2162

WorkList ID : 189862

Department : Extraction

Date : 06-02-2025 08:51:29

| Sample   | Customer Sample         | Matrix | Test           | Preservative | Customer | Raw Sample<br>Storage<br>Location | Collect Date | Method        |
|----------|-------------------------|--------|----------------|--------------|----------|-----------------------------------|--------------|---------------|
| Q2162-03 | BP-VPB-182-GW-580-582   | Water  | SVOC-SIMGroup1 | Cool 4 deg C | TETR06   | L31                               | 05/27/2025   | 8270-Modified |
| Q2162-07 | BP-VPB-182-GW-620-622   | Water  | SVOC-SIMGroup1 | Cool 4 deg C | TETR06   | L31                               | 05/28/2025   | 8270-Modified |
| Q2162-09 | BP-VPB-182-DUP-20250528 | Water  | SVOC-SIMGroup1 | Cool 4 deg C | TETR06   | L31                               | 05/28/2025   | 8270-Modified |
| Q2162-10 | BP-VPB-182-EB-20250529  | Water  | SVOC-SIMGroup1 | Cool 4 deg C | TETR06   | L31                               | 05/29/2025   | 8270-Modified |

Date/Time

6/2/25 8:51

Raw Sample Received by:

RS (Ext-lab)

Raw Sample Relinquished by:

JS

Date/Time

6/2/25 9:30

Raw Sample Received by:

JS

Raw Sample Relinquished by:

RS (Ext-lab)

# WORKLIST(Hardcopy Internal Chain)

WorkList Name : Q2181

WorkList ID : 189887

Department : Extraction

Date : 06-02-2025 14:27:29

| Sample   | Customer Sample | Matrix | Test          | Preservative | Customer | Raw Sample<br>Storage<br>Location | Collect Date | Method        |
|----------|-----------------|--------|---------------|--------------|----------|-----------------------------------|--------------|---------------|
| Q2181-01 | 38072-062624    | Water  | SVOCMS Group5 | Cool 4 deg C | ALLI03   | QA Of                             | 05/30/2025   | 8270-Modified |

Date/Time

6/2/25 14:27

Raw Sample Received by:

RS (Ext Lab)

Raw Sample Relinquished by:

SJ (QA0)

Page 1 of 1

Date/Time

Raw Sample Received by:

Raw Sample Relinquished by:

## Prep Standard - Chemical Standard Summary

**Order ID :** Q2181

**Test :** SVOCMS Group5

**Prepbatch ID :** PB168238,

**Sequence ID/Qc Batch ID:** BN060325,BN060425,

**Standard ID :**

EP2609,EP2610,EP2620,SP6740,SP6756,SP6757,SP6758,SP6767,SP6768,SP6774,SP6775,SP6776,SP6777,SP6778,SP6779,SP6780,SP6781,

**Chemical ID :**

1ul/100ul

sample,E3551,E3657,E3874,E3902,E3904,E3915,E3926,E3939,M6157,S10104,S 11496,S11650,S11788,S11832,S12115,S12195,S12216,S12271,S12486,S12533,S12577,S12651,S12792,S12974,W3112,

## 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> |
|------------------|----------------------------|------------------------|------------------|------------------------|--------------------|---------------------|------------------|----------------------|
| 1874             | 10 N SODIUM HYDROXIDE SOLN | <a href="#">EP2609</a> | 05/07/2025       | 11/07/2025             | RUPESHKUMAR SHAH   | Extraction_SC ALE_2 | None             | Riteshkumar Patel    |

(EX-SC-2)

**FROM** 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> |
|------------------|----------------|------------------------|------------------|------------------------|--------------------|---------------------|------------------|----------------------|
| 314              | 1.1 H2SO4 SOLN | <a href="#">EP2610</a> | 05/07/2025       | 11/07/2025             | RUPESHKUMAR SHAH   | Extraction_SC ALE_2 | None             | Riteshkumar Patel    |

(EX-SC-2)

**FROM** 1000.00000ml of M6157 + 1000.00000ml of W3112 = Final Quantity: 2000.000 ml

## 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>            |
|------------------|----------------------|------------------------|------------------|------------------------|--------------------|---------------------------------|------------------|---------------------------------|
| 3923             | Baked Sodium Sulfate | <a href="#">EP2620</a> | 05/30/2025       | 07/01/2025             | RUPESHKUMAR SHAH   | Extraction_SCALE_2<br>(EX-SC-2) | None             | Riteshkumar Patel<br>05/30/2025 |

**FROM** 4000.00000gram of E3551 = Final Quantity: 4000.000 gram

| <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="#">SP6740</a> | 02/13/2025       | 07/30/2025             | Rahul Chavli       | None           | None             | Yogesh Patel<br>02/28/2025 |

**FROM** 0.10000ml of S12651 + 4.90000ml of E3874 = Final Quantity: 5.000 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> |
|------------------|------------------------|------------------------|------------------|------------------------|--------------------|----------------|------------------|----------------------|
| 3492             | 8270-SIM-Spike 0.4 PPM | <a href="#">SP6756</a> | 03/24/2025       | 07/29/2025             | Rahul Chavli       | None           | None             | mohammad ahmed       |
| 04/07/2025       |                        |                        |                  |                        |                    |                |                  |                      |

**FROM** 0.00160ml of S11650 + 0.02000ml of S11788 + 0.04000ml of S12486 + 0.04000ml of S12533 + 0.04000ml of S12974 + 99.85840ml of E3902 = Final Quantity: 100.000 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> |
|------------------|----------------------|------------------------|------------------|------------------------|--------------------|----------------|------------------|----------------------|
| 3895             | 50 ug/ml DFTTP 8270E | <a href="#">SP6757</a> | 03/31/2025       | 09/30/2025             | Rahul Chavli       | None           | None             | Jagrut Upadhyay      |
| 04/01/2025       |                      |                        |                  |                        |                    |                |                  |                      |

**FROM** 1.00000ml of S12577 + 19.00000ml of E3904 = Final Quantity: 20.000 ml

## 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> |
|------------------|----------------------------|------------------------|------------------|------------------------|--------------------|----------------|------------------|----------------------|
| 3491             | 8270-SIM-Surrogate 0.4 PPM | <a href="#">SP6758</a> | 04/03/2025       | 07/24/2025             | Rahul Chavli       | None           | None             | mohammad ahmed       |
|                  |                            |                        |                  |                        |                    |                |                  | 04/07/2025           |

**FROM** 0.00800ml of S12195 + 0.01600ml of S12216 + 0.04000ml of S11832 + 199.93600ml of E3915 = Final Quantity: 200.000 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="#">SP6767</a> | 04/10/2025       | 07/24/2025             | Jagrut Upadhyay    | None           | None             | Sohil Jodhani        |
|                  |                                                   |                        |                  |                        |                    |                |                  | 04/16/2025           |

**FROM** 0.00630ml of S12195 + 0.01280ml of S12216 + 0.03200ml of S11788 + 0.03200ml of S11832 + 0.06400ml of S12486 +  
0.06400ml of S12533 + 0.06400ml of S12974 + 19.72490ml of E3926 = 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="#">SP6768</a> | 04/10/2025       | 07/24/2025             | Jagrut Upadhyay    | None           | None             | Sohil Jodhani        |
| <b>SOURCE</b><br><b>FROM</b> 0.87500ml of E3926 + 0.01000ml of SP6740 + 0.12500ml of SP6767 = 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> |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------|------------------------|------------------|------------------------|--------------------|----------------|------------------|----------------------|
| 3339                                                                                                                                                                                               | 8270 sim calibration stock 10ppm<br>(CPI) | <a href="#">SP6774</a> | 04/28/2025       | 06/21/2025             | Jagrut Upadhyay    | None           | None             | Rahul Chavli         |
| <b>FROM</b> 0.03350ml of S10104 + 0.05000ml of S11496 + 0.12500ml of S11832 + 0.12500ml of S12115 + 0.25000ml of S12271 +<br>0.25000ml of S12792 + 24.16650ml of E3926 = 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="#">SP6775</a> | 04/28/2025       | 06/21/2025             | Jagrut Upadhyay    | None           | None             | Rahul Chavli         |
|                  |                                        |                        |                  |                        |                    |                |                  | 05/16/2025           |

**FROM** 0.50000ml of E3926 + 0.01000ml of SP6740 + 0.50000ml of SP6774 = 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="#">SP6776</a> | 04/28/2025       | 06/21/2025             | Jagrut Upadhyay    | None           | None             | Rahul Chavli         |
|                  |                                          |                        |                  |                        |                    |                |                  | 05/16/2025           |

**FROM** 0.68000ml of E3926 + 0.01000ml of SP6740 + 0.32000ml of SP6774 = 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="#">SP6777</a> | 04/28/2025       | 06/21/2025             | Jagrut Upadhyay    | None           | None             | Rahul Chavli         |
|                  |                                          |                        |                  |                        |                    |                |                  | 05/16/2025           |

**FROM** 0.84000ml of E3926 + 0.01000ml of SP6740 + 0.16000ml of SP6774 = 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="#">SP6778</a> | 04/28/2025       | 06/21/2025             | Jagrut Upadhyay    | None           | None             | Rahul Chavli         |
|                  |                                          |                        |                  |                        |                    |                |                  | 05/16/2025           |

**FROM** 0.92000ml of E3926 + 0.01000ml of SP6740 + 0.08000ml of SP6774 = 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="#">SP6779</a> | 04/28/2025       | 06/21/2025             | Jagrut Upadhyay    | None           | None             | Rahul Chavli         |
|                  |                                          |                        |                  |                        |                    |                |                  | 05/16/2025           |

**FROM** 0.96000ml of E3926 + 0.01000ml of SP6740 + 0.04000ml of SP6774 = 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="#">SP6780</a> | 04/28/2025       | 06/21/2025             | Jagrut Upadhyay    | None           | None             | Rahul Chavli         |
|                  |                                          |                        |                  |                        |                    |                |                  | 05/16/2025           |

**FROM** 0.50000ml of E3926 + 0.01000ml of SP6740 + 0.50000ml of SP6779 = 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<br>CALIBRATION SOLUTION | <a href="#">SP6781</a> | 04/28/2025       | 06/21/2025             | Jagrut<br>Upadhyay | None           | None             | Rahul Chavli<br><br>05/16/2025 |
| <b>FROM</b> 0.75000ml of E3926 + 0.01000ml of SP6740 + 0.25000ml of SP6779 = Final Quantity: 1.010 ml |                                             |                        |                  |                        |                    |                |                  |                                |

## 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 | 12/04/2025      | 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) | 25A0262002 | 07/30/2025      | 01/30/2025 / Rajesh     | 01/20/2025 / Rajesh         | E3874          |

| Supplier         | ItemCode / ItemName                        | Lot #      | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|------------------|--------------------------------------------|------------|-----------------|-------------------------|-----------------------------|----------------|
| Seidler Chemical | BA-9254-03 / Acetone, Ultra Resi (cs/4x4L) | 24H2762008 | 09/18/2025      | 03/18/2025 / RUPESH     | 02/12/2025 / RUPESH         | E3902          |

| Supplier         | ItemCode / ItemName                                         | Lot #      | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|------------------|-------------------------------------------------------------|------------|-----------------|-------------------------|-----------------------------|----------------|
| Seidler Chemical | BA-9644-A4 / Methylene Chloride,U-Resi, Cycle-Tainer (215L) | 24K1762005 | 01/07/2026      | 03/13/2025 /            | 12/27/2024 / RUPESH         | E3904          |

| Supplier         | ItemCode / ItemName                        | Lot #      | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|------------------|--------------------------------------------|------------|-----------------|-------------------------|-----------------------------|----------------|
| Seidler Chemical | BA-9254-03 / Acetone, Ultra Resi (cs/4x4L) | 24H2762008 | 09/26/2025      | 03/26/2025 / Rajesh     | 03/19/2025 / RUPESH         | E3915          |

## 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) | 25A0262002 | 10/08/2025      | 04/08/2025 / Rajesh     | 02/07/2025 / Rajesh         | E3926          |

| 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) | 25A2862010 | 11/22/2025      | 05/22/2025 / RUPESH     | 02/28/2025 / RUPESH         | E3939          |

| 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) | 24i1262013 | 11/07/2025      | 05/07/2025 / RUPESH     | 02/18/2025 / Mohan          | M6157          |

| Supplier          | ItemCode / ItemName                                       | Lot #  | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|-------------------|-----------------------------------------------------------|--------|-----------------|-------------------------|-----------------------------|----------------|
| CPI International | Z-112090-04 / CLP Acid Surrogate Solution, 7500 mg/L, 1ml | 440246 | 07/30/2025      | 01/30/2025 / anahy      | 12/09/2021 / Christian      | S10104         |

| Supplier          | ItemCode / ItemName                                               | Lot #  | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|-------------------|-------------------------------------------------------------------|--------|-----------------|-------------------------|-----------------------------|----------------|
| CPI International | Z-110094-02 / CLP Base/Neutral Surrogate Solution, 5000 mg/L, 1ml | 506889 | 10/28/2025      | 04/28/2025 / Jagrut     | 08/11/2023 / Yogesh         | S11496         |

| Supplier | ItemCode / ItemName                                         | Lot #    | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|----------|-------------------------------------------------------------|----------|-----------------|-------------------------|-----------------------------|----------------|
| Restek   | 555872 / Custom Standard, pentachlorophenol Std [CS 5328-5] | A0201728 | 07/29/2025      | 01/29/2025 / anahy      | 11/09/2023 / Yogesh         | S11650         |

## CHEMICAL RECEIPT LOG BOOK

| 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 | 09/10/2025      | 03/10/2025 / anahy      | 11/21/2023 / Rahul          | S11788         |

| Supplier | ItemCode / ItemName                                         | Lot #    | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|----------|-------------------------------------------------------------|----------|-----------------|-------------------------|-----------------------------|----------------|
| Restek   | 33913 / SOM01.0 SIM Analysis Standard (Surrogate), 2000 PPM | A0201976 | 07/24/2025      | 01/24/2025 / anahy      | 11/21/2023 / rahul          | S11832         |

| Supplier          | ItemCode / ItemName                                | Lot #  | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|-------------------|----------------------------------------------------|--------|-----------------|-------------------------|-----------------------------|----------------|
| CPI International | z-010223-01 / 1,4-Dioxane Solution, 2,000mg/L, 1ml | 454157 | 10/28/2025      | 04/28/2025 / Jagrut     | 03/08/2024 / Rahul          | S12115         |

| Supplier | ItemCode / ItemName                                      | Lot #    | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|----------|----------------------------------------------------------|----------|-----------------|-------------------------|-----------------------------|----------------|
| Restek   | 31087 / Acid Surrogate 10,000ug/ml, methanol, 5ml/ ampul | A0206206 | 09/18/2025      | 03/18/2025 / anahy      | 03/15/2024 / Rahul          | S12195         |

| Supplier | ItemCode / ItemName                                                             | Lot #    | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|----------|---------------------------------------------------------------------------------|----------|-----------------|-------------------------|-----------------------------|----------------|
| Restek   | 31086 / Base Neutral Surrogate 5000ug/ml, CH <sub>2</sub> Cl <sub>2</sub> , 5ml | A0206381 | 09/18/2025      | 03/18/2025 / anahy      | 03/15/2024 / Rahul          | S12216         |

| Supplier          | ItemCode / ItemName                                                  | Lot #  | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|-------------------|----------------------------------------------------------------------|--------|-----------------|-------------------------|-----------------------------|----------------|
| CPI International | z-110381-01 / 8270 Calibration Solution, 76-1, 500 & 1,000 mg/L, 1ml | 520963 | 10/28/2025      | 04/28/2025 / Jagrut     | 05/24/2024 / Rahul          | S12271         |

## CHEMICAL RECEIPT LOG BOOK

| Supplier | ItemCode / ItemName                                                                                   | Lot #    | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|----------|-------------------------------------------------------------------------------------------------------|----------|-----------------|-------------------------|-----------------------------|----------------|
| Restek   | 555223 / Custom 8270 Plus Std #1 [2nd lot at \$100 per ampul if requested - contact ARM with Request] | A0214021 | 09/10/2025      | 03/10/2025 / anahy      | 07/23/2024 / RAHUL          | S12486         |

[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 | 09/10/2025      | 03/10/2025 / anahy      | 07/23/2024 / RAHUL          | S12533         |

[CS 4978-2]

| 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, | A0212955 | 06/30/2027      | 03/31/2025 / Rahul      | 08/01/2024 / Rahul          | S12577         |

| 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 | A0212266 | 08/07/2025      | 02/07/2025 / anahy      | 09/20/2024 / anahy          | S12651         |

| Supplier          | ItemCode / ItemName                                                                  | Lot #  | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|-------------------|--------------------------------------------------------------------------------------|--------|-----------------|-------------------------|-----------------------------|----------------|
| CPI International | Z-110816-01 / Custom 8270 Mix, 4-79, 1000 mg/L, 1 mL, (Maximum Expiration: 180 Days) | 414127 | 06/21/2025      | 04/28/2025 / Jagrut     | 05/24/2024 / Rahul          | S12792         |

| Supplier | ItemCode / ItemName                                                                                                                    | Lot #    | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|----------|----------------------------------------------------------------------------------------------------------------------------------------|----------|-----------------|-------------------------|-----------------------------|----------------|
| Restek   | 31850 / 8270 SV Mix, 8270 Mega Mix 1mL, 1000ug/mL, CH <sub>2</sub> Cl <sub>2</sub> [New Solvent 100% CH <sub>2</sub> Cl <sub>2</sub> ] | A0219438 | 09/10/2025      | 03/10/2025 / anahy      | 12/11/2024 / anahy          | S12974         |

**CHEMICAL RECEIPT LOG BOOK**

| Supplier         | ItemCode / ItemName | Lot #               | Expiration Date | Date Opened /<br>Opened By | Received Date /<br>Received By | Chemtech<br>Lot # |
|------------------|---------------------|---------------------|-----------------|----------------------------|--------------------------------|-------------------|
| Seidler Chemical | DIW / DI Water      | Daily Lab-Certified | 07/03/2029      | 07/03/2024 /<br>lwona      | 07/03/2024 /<br>lwona          | W3112             |

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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

*Erica Castiglione*

Certified By:

Erica Castiglione  
Chemist

All weights are traceable through N. I. S. T. Test No. 822/264157-00.  
Concentration (correct for purity) and uncertainty (95% confidence) values listed are determined gravimetrically.



**PRODUCTOS  
QUÍMICOS  
MONTERREY, S.A. DE C.V.**

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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.

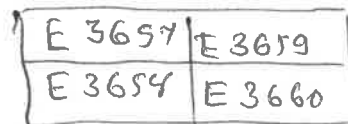
This document has been electronically produced and is valid without a signature.

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)

Avantor

Material No.: 9266-A4  
Batch No.: 25A0262002  
Manufactured Date: 2024-11-21  
Expiration Date: 2026-02-20  
Revision No.: 0

## Certificate of Analysis

| Test                                                                                       | Specification  | Result     |
|--------------------------------------------------------------------------------------------|----------------|------------|
| FID-Sensitive Impurities (as 2-Octanol) Single Impurity Peak (ng/mL)                       | $\leq 5$       | 1          |
| ECD Sensitive Impurities (as Heptachlor Epoxide) Single Peak (pg/mL)                       | $\leq 10$      | 4          |
| Assay ( $\text{CH}_2\text{Cl}_2$ ) (by GC, exclusive of preservative, corrected for water) | $\geq 99.8\%$  | 99.9%      |
| Color (APHA)                                                                               | $\leq 10$      | 10         |
| Residue after Evaporation                                                                  | $\leq 1.0$ ppm | 0.8 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 3874



Jamie Croak  
Director Quality Operations, Bioscience Production

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700

Avantor Performance Materials, LLC

100 Matsonford Rd, Suite 200, Radnor, PA, 19087, U.S.A. Phone 610.386.1700

Acetone

BAKER RESI-ANALYZED® Reagent

For Organic Residue Analysis



Material No.: 9254-03

Batch No.: 24H2762008

Manufactured Date: 2024-04-18

Expiration Date: 2027-04-18

Revision No.: 0

## Certificate of Analysis

| Test                                                                    | Specification | Result      |
|-------------------------------------------------------------------------|---------------|-------------|
| Assay ((CH <sub>3</sub> ) <sub>2</sub> CO) (by GC, corrected for water) | >= 99.4 %     | 100.0 %     |
| Color (APHA)                                                            | <= 10         | 5           |
| Residue after Evaporation                                               | <= 1.0 ppm    | 0.0 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 %      | <0.1 %      |
| 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: United States

Packaging Site: Phillipsburg Mfg Ctr &amp; DC

E3902

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.: 24H2762008

Manufactured Date: 2024-04-18

Expiration Date: 2027-04-18

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 %     | 100.0 %     |
| Color (APHA)                                                            | <= 10         | 5           |
| Residue after Evaporation                                               | <= 1.0 ppm    | 0.0 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 %      | <0.1 %      |
| 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

Recd. by RS on 3/19/25

Country of Origin: United States

Packaging Site: Phillipsburg Mfg Ctr & DC

E3915

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

Methylene Chloride  
ULTRA RESI-ANALYZED  
For Organic Residue Analysis  
(dichloromethane)



Material No.: 9266-A4  
Batch No.: 25A0262002  
Manufactured Date: 2024-11-21  
Expiration Date: 2026-02-20  
Revision No.: 0

Certificate of Analysis

| Test                                                                                             | Specification | Result  |
|--------------------------------------------------------------------------------------------------|---------------|---------|
| FID-Sensitive Impurities (as 2-Octanol)Single Impurity Peak (ng/mL)                              | <= 5          | 1       |
| ECD Sensitive Impurities (as HeptachlorEpoxide) Single Peak (pg/mL)                              | <= 10         | 4       |
| Assay (CH <sub>2</sub> Cl <sub>2</sub> ) (by GC, exclusive of preservative, corrected for water) | >= 99.8 %     | 99.9 %  |
| Color (APHA)                                                                                     | <= 10         | 10      |
| Residue after Evaporation                                                                        | <= 1.0 ppm    | 0.8 ppm |
| Titration Acid (µeq/g)                                                                           | <= 0.3        | <0.1    |
| Chloride (Cl)                                                                                    | <= 10 ppm     | <5 ppm  |
| Water (by KF, coulometric)                                                                       | <= 0.02 %     | <0.01 % |

For Laboratory, Research, or Manufacturing Use  
MEETS SPECIFICATIONS WITHIN THE EXPIRATION PERIOD

Country of Origin: United States  
Packaging Site: Phillipsburg Mfg Ctr & DC

E 3926

*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)



Material No.: 9266-A4  
Batch No.: 25A2862010  
Manufactured Date: 2024-12-18  
Expiration Date: 2026-03-19  
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) | $\geq 99.8 \%$ | 99.9 %  |
| Color (APHA)                                                                                     | $\leq 10$      | 5       |
| Residue after Evaporation                                                                        | $\leq 1.0$ ppm | 0.3 ppm |
| Titration Acid ( $\mu$ 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

E3939

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

Sulfuric Acid  
BAKER INSTRA-ANALYZED® Reagent  
For Trace Metal Analysis  
Low Selenium

avantor™



MG157  
MS

Material No.: 9673-33

Batch No.: 24I1262013

Manufactured Date: 2024-08-07

Retest Date: 2029-08-06

Revision No.: 0

## Certificate of Analysis

| Test                                                        | Specification | Result      |
|-------------------------------------------------------------|---------------|-------------|
| ACS – Assay (H <sub>2</sub> SO <sub>4</sub> )               | 95.0 – 98.0 % | 96.2 %      |
| Appearance                                                  | Passes Test   | Passes Test |
| ACS – Color (APHA)                                          | <= 10         | 5           |
| ACS – Residue after Ignition                                | <= 3 ppm      | <1 ppm      |
| ACS – Substances Reducing Permanganate(as SO <sub>2</sub> ) | <= 2 ppm      | <2 ppm      |
| Ammonium (NH <sub>4</sub> )                                 | <= 1 ppm      | <1 ppm      |
| Chloride (Cl)                                               | <= 0.1 ppm    | <0.1 ppm    |
| Nitrate (NO <sub>3</sub> )                                  | <= 0.2 ppm    | 0.1 ppm     |
| Phosphate (PO <sub>4</sub> )                                | <= 0.5 ppm    | <0.1 ppm    |
| Trace Impurities – Aluminum (Al)                            | <= 30.0 ppb   | <5.0 ppb    |
| Arsenic & Antimony (as As)                                  | <= 4.0 ppb    | <2.0 ppb    |
| Trace Impurities – Boron (B)                                | <= 10.0 ppb   | <5.0 ppb    |
| Trace Impurities – Cadmium (Cd)                             | <= 2.0 ppb    | <1.0 ppb    |
| Trace Impurities – Chromium (Cr)                            | <= 6.0 ppb    | <1.0 ppb    |
| Trace Impurities – Cobalt (Co)                              | <= 0.5 ppb    | <0.3 ppb    |
| Trace Impurities – Copper (Cu)                              | <= 1.0 ppb    | <1.0 ppb    |
| Trace Impurities – Gold (Au)                                | <= 10.0 ppb   | <5.0 ppb    |
| Heavy Metals (as Pb)                                        | <= 500.0 ppb  | <100.0 ppb  |
| Trace Impurities – Iron (Fe)                                | <= 50.0 ppb   | <1.0 ppb    |
| Trace Impurities – Lead (Pb)                                | <= 0.5 ppb    | <0.5 ppb    |
| Trace Impurities – Magnesium (Mg)                           | <= 7.0 ppb    | <1.0 ppb    |
| Trace Impurities – Manganese (Mn)                           | <= 1.0 ppb    | <1.0 ppb    |
| Trace Impurities – Mercury (Hg)                             | <= 0.5 ppb    | <0.1 ppb    |
| Trace Impurities – Nickel (Ni)                              | <= 2.0 ppb    | <0.3 ppb    |
| Trace Impurities – Potassium (K)                            | <= 500.0 ppb  | <10.0 ppb   |
| Trace Impurities – Selenium (Se)                            | <= 50.0 ppb   | 7.2 ppb     |
| Trace Impurities – Silicon (Si)                             | <= 100.0 ppb  | 12.8 ppb    |
| Trace Impurities – Silver (Ag)                              | <= 1.0 ppb    | <1.0 ppb    |

Sulfuric Acid

BAKER INSTRA-ANALYZED® Reagent

For Trace Metal Analysis

Low Selenium

 **avantors**™



Material No.: 9673-33

Batch No.: 24I1262013

| Test                              | Specification    | Result      |
|-----------------------------------|------------------|-------------|
| Trace Impurities – Sodium (Na)    | $\leq 500.0$ ppb | $< 5.0$ ppb |
| Trace Impurities – Strontium (Sr) | $\leq 5.0$ ppb   | $< 1.0$ ppb |
| Trace Impurities – Tin (Sn)       | $\leq 5.0$ ppb   | 1.1 ppb     |
| Trace Impurities – Zinc (Zn)      | $\leq 5.0$ ppb   | $< 1.0$ ppb |

For Laboratory, Research, or Manufacturing Use

Country of Origin: United States

Packaging Site: Phillipsburg Mfg Ctr & DC



Jamie Croak

Director Quality Operations, Bioscience Production



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

|                     |                 |                 |                    |                   |                                                       |
|---------------------|-----------------|-----------------|--------------------|-------------------|-------------------------------------------------------|
| <b>Catalog No.:</b> | <b>Lot No.:</b> | <b>Storage:</b> | <b>Solvent:</b>    | <b>Exp. Date:</b> | <b>Description:</b>                                   |
| Z-110094-02         | 506889          | ≤ -10 °C        | Methylene Chloride | 7/25/2028         | CLP Base/Neutral Surrogate Solution, 5,000 mg/L, 1 ml |

| Compound                           | CAS No.   | Purity (%) | Compound Lot No. | Concentration, mg/L |
|------------------------------------|-----------|------------|------------------|---------------------|
| 1,2-dichlorobenzene-d <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.  
↓  
511498 } 08/11/2023

\*Not a certified value

Certified By: Shane C. Tipton  
Clint Tipton  
Chemist

All weights are traceable through N. I. S. T. Test No. 822/264157-00.  
Concentration (correct for purity) and uncertainty (95% confidence) values  
listed are determined gravimetrically.



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Tel: 1-814-353-1300  
Fax: 1-814-353-1309

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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. :** 555872 **Lot No.:** A0201728

**Description :** Custom Pentachlorophenol Standard  
Custom Pentachlorophenol Standard 25,000µg/mL, Methanol, 1mL/ampul

**Container Size :** 2 mL **Pkg Amt:** > 1 mL

**Expiration Date :** September 30, 2026 **Storage:** 10°C or colder

**Ship:** Ambient

511649  
↓  
511658 } Y.P.  
11/13/23

### CERTIFIED VALUES

| Component # | Compound          | CAS #   | Lot #       | Purity | Grav. Conc. (weight/volume) | Expanded Uncertainty * (95% C.L.; K=2) |
|-------------|-------------------|---------|-------------|--------|-----------------------------|----------------------------------------|
| 1           | Pentachlorophenol | 87-86-5 | RP230530RSR | 99%    | 25,000.0 µg/mL              | +/- 777.0837                           |

**Solvent:** Methanol  
**CAS #** 67-56-1  
**Purity** 99%

Josh McCloskey - Operations Technician I

**Date Mixed:** 05-Sep-2023

**Balance:** B251644995

Manufactured under Restek's ISO 9001:2015  
Registered Quality System  
Certificate #FM 80397

## General Certified Reference Material Notes

### Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

### Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

### Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k \sqrt{u_{gravimetric}^2 + u_{homogeneity}^2 + u_{storage\ stability}^2 + u_{shipping\ stability}^2}$$

$k$  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. :** 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:**

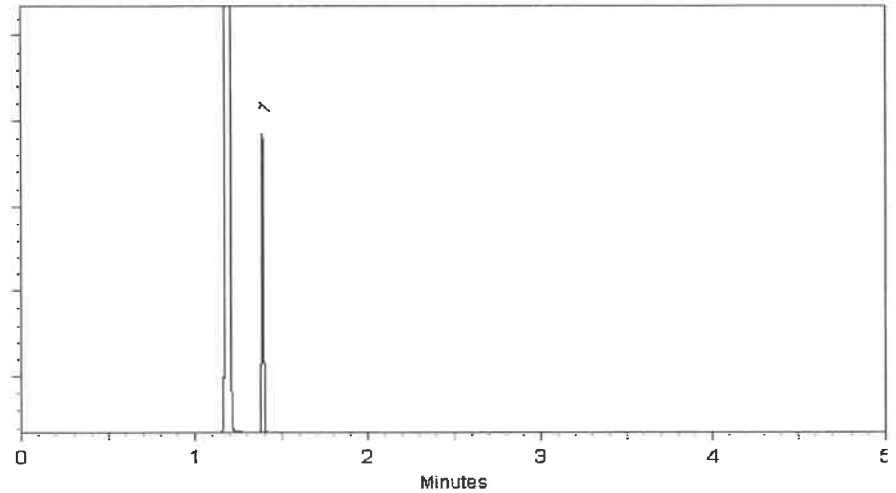
FID

**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.

### 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.

*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:**

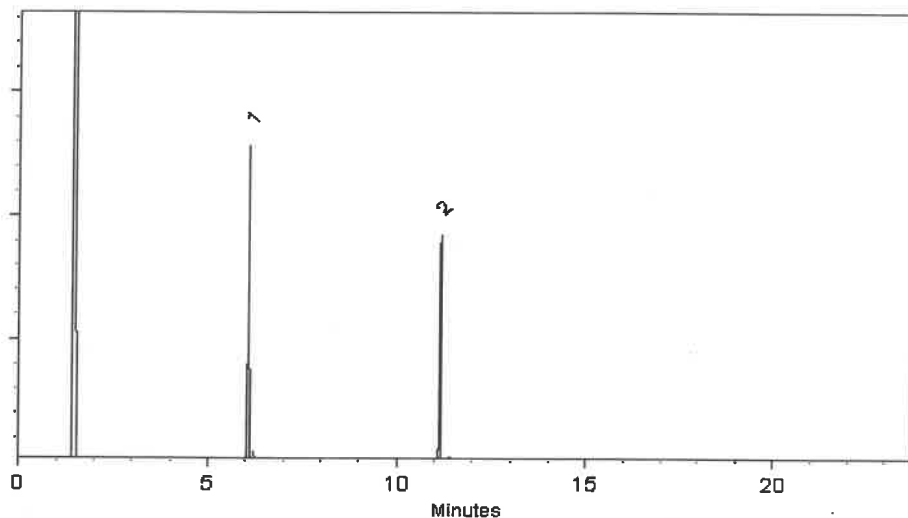
FID

**Split Vent:**

10 ml/min.

**Inj. Vol**

1µl

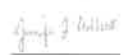


This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

  
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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Manufacturer's Quality System  
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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-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  
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. :** 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/  
↓  
512206 } 03/18/24

### CERTIFIED VALUES

| Elution Order | Compound             | CAS #      | Lot #       | Purity | Grav. Conc. (weight/volume) | Expanded Uncertainty * (95% C.L.; K=2) |
|---------------|----------------------|------------|-------------|--------|-----------------------------|----------------------------------------|
| 1             | 2-Fluorophenol       | 367-12-4   | STBK1705    | 99%    | 10,005.3 µg/mL              | +/- 302.5390                           |
| 2             | Phenol-d6            | 13127-88-3 | PR-33287A   | 99%    | 10,005.5 µg/mL              | +/- 302.5475                           |
| 3             | 2,4,6-Tribromophenol | 118-79-6   | RP230831RSR | 99%    | 10,006.6 µg/mL              | +/- 302.5783                           |

\* Expanded Uncertainty displayed in same units as Grav. Conc.

**Solvent:** Methanol  
**CAS #** 67-56-1  
**Purity** 99%

## Quality Confirmation Test

**Column:**

30m x 0.25mm x 0.25µm  
Rtx-5 (cat.#10223)

**Carrier Gas:**

hydrogen-constant pressure 10 psi.

**Temp. Program:**

40°C (hold 2 min.) to 330°C  
@ 10°C/min. (hold 10 min.)

**Inj. Temp:**

250°C

**Det. Temp:**

330°C

**Det. Type:**

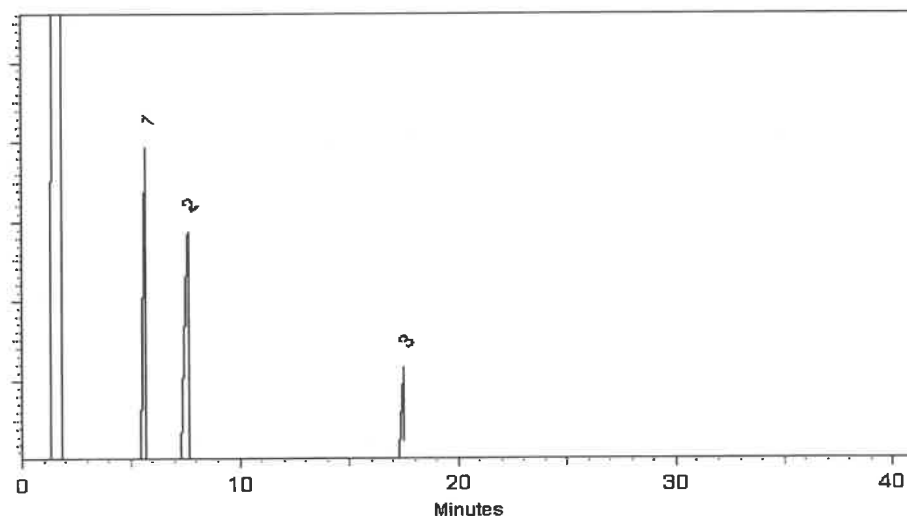
FID

**Split Vent:**

2 ml/min.

**Inj. Vol**

1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

*Penelope A. 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



110 Benner Circle  
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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. :** 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:**

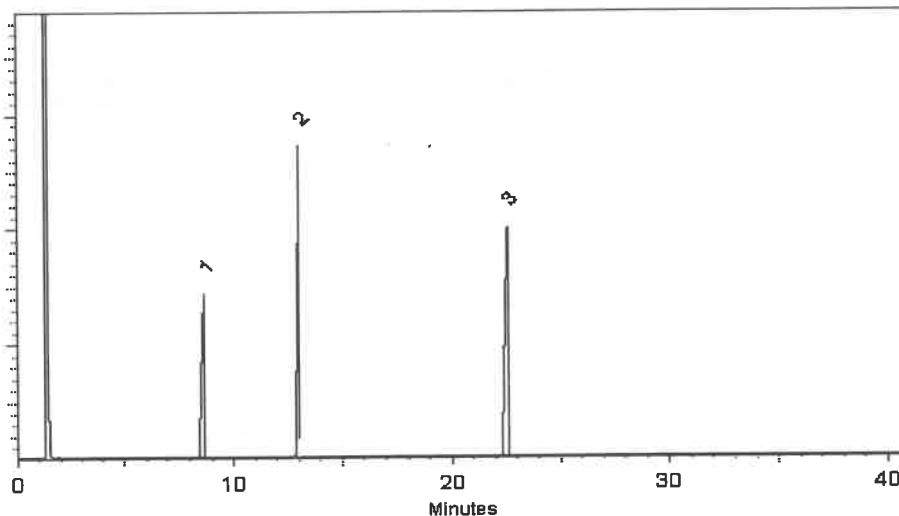
FID

**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

Jennifer Pollino - Operations Tech III - ARM QC

Date Mixed: 09-Jan-2024

Balance Serial # 1128360905

Date Passed: 11-Jan-2024

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-110381-01         | 520963          | ≤ -10 °C        | Methylene Chloride | 10/10/2028        | Method 8270 Calibration Solution, 76-1, 500 & 1,000 mg/L, 1 mL |

| Compound                          | CAS No.  | Purity (%) | Compound Lot No. | Concentration, mg/L |
|-----------------------------------|----------|------------|------------------|---------------------|
| acenaphthene                      | 83-32-9  | 99.9       | 13.1.5P          | 1010 ± 9.89         |
| acenaphthylene                    | 208-96-8 | 97.6       | 14.290.1P        | 1014 ± 9.93         |
| aniline                           | 62-53-3  | 99.97      | 64.1.4P          | 1001 ± 9.8          |
| anthracene                        | 120-12-7 | 99.5       | 15.7.1P          | 999.6 ± 9.79        |
| azobenzene                        | 103-33-3 | 98.1       | 252.7.2P         | 999.1 ± 9.8         |
| benzo[a]anthracene                | 56-55-3  | 100        | 16.7.3P          | 1007 ± 9.86         |
| benzo[b]fluoranthene              | 205-99-2 | 99.8       | 17.421.3P        | 1011 ± 14.11        |
| benzo[k]fluoranthene              | 207-08-9 | 98.9       | 18.421.4P        | 1001 ± 10.96        |
| benzo[ghi]perylene                | 191-24-2 | 93         | 19.286.4P        | 999.6 ± 13.95       |
| benzo[a]pyrene                    | 50-32-8  | 97         | 20.286.2P        | 999.9 ± 22.24       |
| benzyl alcohol                    | 100-51-6 | 99.9       | 65.18.1P         | 1001 ± 9.82         |
| bis(2-chloroethoxy)methane        | 111-91-1 | 99.1       | 31.3.15P         | 1000 ± 14.69        |
| bis(2-chloroethyl)ether           | 111-44-4 | 99.8       | 32.7.1P          | 1003 ± 13.89        |
| bis(2-chloro-1-methylethyl) ether | 108-60-1 | 99.5       | 34.3.15P         | 999.4 ± 14.68       |
| bis(2-ethylhexyl)adipate          | 103-23-1 | 99.5       | 874.7.1P         | 999.5 ± 9.8         |
| bis(2-ethylhexyl)phthalate        | 117-81-7 | 99.4       | 33.29.1P         | 998.8 ± 17.03       |
| 4-bromophenyl phenyl ether        | 101-55-3 | 99.4       | 35.7.1.1P        | 1000 ± 13.85        |
| butyl benzyl phthalate            | 85-68-7  | 98.4       | 36.1.6P          | 984.7 ± 16.79       |
| carbazole                         | 86-74-8  | 99.4       | 239.7.2P         | 1000 ± 9.8          |

\*Not a certified value

512270 } RC/  
↓  
512274 } 05/24/24

*Kerry Kane*

Certified By: \_\_\_\_\_

Kerry Kane  
Chemist

All weights are traceable through N. I. S. T. Test No. 822/264157-00.  
Concentration (correct for purity) and uncertainty (95% confidence) values  
listed are determined gravimetrically.

# Certificate of Analysis

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Catalog No.: Z-110381-01

Lot No.: 520963

Expiration Date: 10/10/2028

| Compound                   | CAS No.   | Purity (%) | Compound Lot No. | Concentration, mg/L |
|----------------------------|-----------|------------|------------------|---------------------|
| 4-chloroaniline            | 106-47-8  | 100        | 66.7.1P          | 1000 ± 9.79         |
| 4-chlorophenylphenyl ether | 7005-72-3 | 98         | 37.158.2P        | 1001 ± 17.07        |
| 4-chloro-3-methylphenol    | 59-50-7   | 99         | 102.1.2P         | 1006 ± 17.16        |
| 2-chloronaphthalene        | 91-58-7   | 99.9       | 42.7.6P          | 1000 ± 9.79         |
| 2-chlorophenol             | 95-57-8   | 99.8       | 103.7.1P         | 1007 ± 13.96        |
| chrysene                   | 218-01-9  | 96         | 21.286.2P        | 998.4 ± 12.85       |
| dibenz[a,h]anthracene      | 53-70-3   | 99.44      | 22.286.3P        | 1000 ± 9.74         |
| dibenzofuran               | 132-64-9  | 100        | 67.7.2.1P        | 1002 ± 9.77         |
| di-n-butyl phthalate       | 84-74-2   | 99.84      | 40.286.1P        | 1007 ± 24.48        |
| 1,2-dichlorobenzene        | 95-50-1   | 99.8       | 43.7.1P          | 1000 ± 9.79         |
| 1,3-dichlorobenzene        | 541-73-1  | 99.5       | 44.1.3P          | 999.4 ± 9.79        |
| 1,4-dichlorobenzene        | 106-46-7  | 99.9       | 45.29.2P         | 1000 ± 9.79         |
| 2,4-dichlorophenol         | 120-83-2  | 99.6       | 104.7.1.1P       | 1005 ± 13.93        |
| diethyl phthalate          | 84-66-2   | 99.8       | 38.7.1P          | 1011 ± 14           |
| 2,4-dimethylphenol         | 105-67-9  | 99.6       | 105.7.1.1P       | 1009 ± 13.98        |
| dimethyl phthalate         | 131-11-3  | 99.9       | 39.9.2P          | 996.5 ± 13.8        |
| 1,2-dinitrobenzene         | 528-29-0  | 99.86      | 86.7.3.1P        | 999.5 ± 9.75        |
| 1,3-dinitrobenzene         | 99-65-0   | 100        | 313.7.2P         | 998 ± 9.79          |
| 1,4-dinitrobenzene         | 100-25-4  | 100        | 907.7.1P         | 999.5 ± 9.8         |
| 2,4-dinitrophenol          | 51-28-5   | 99.9       | 106.1.6DP        | 1002 ± 13.89        |
| 2,4-dinitrotoluene         | 121-14-2  | 100        | 87.7.3P          | 999.8 ± 13.85       |
| 2,6-dinitrotoluene         | 606-20-2  | 99.4       | 88.7.2.1P        | 999.6 ± 13.85       |
| di-n-octyl phthalate       | 117-84-0  | 99.1       | 41.7.5P          | 991.6 ± 13.74       |
| diphenylamine              | 122-39-4  | 100        | 78.1.6P          | 998 ± 13.79         |
| 2,3,5,6-tetrachlorophenol  | 935-95-5  | 97         | 1112.286.1P      | 1004 ± 14.02        |
| fluoranthene               | 206-44-0  | 98.6       | 23.7.4P          | 999.6 ± 9.79        |
| fluorene                   | 86-73-7   | 98.4       | 24.7.1P          | 999.7 ± 9.79        |

\*Not a certified value

*Kerry Kane*

Certified By:

Kerry Kane  
Chemist

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# Certificate of Analysis

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Catalog No.: Z-110381-01

Lot No.: 520963

Expiration Date: 10/10/2028

| Compound                   | CAS No.  | Purity (%) | Compound Lot No. | Concentration, mg/L |
|----------------------------|----------|------------|------------------|---------------------|
| hexachlorobenzene          | 118-74-1 | 99         | 46.158.4P        | 999.9 ± 13.96       |
| hexachlorobutadiene        | 87-68-3  | 97.4       | 47.1.4P          | 1000 ± 9.79         |
| hexachlorocyclopentadiene  | 77-47-4  | 99.2       | 48.2.2P          | 1001 ± 9.8          |
| hexachloroethane           | 67-72-1  | 99.9       | 49.1.4P          | 1003 ± 9.82         |
| indeno[1,2,3-cd]pyrene     | 193-39-5 | 98         | 25.286.4P        | 999.4 ± 22.23       |
| isophorone                 | 78-59-1  | 98.9       | 90.1.4P          | 999.9 ± 13.85       |
| 2-methyl-4,6-dinitrophenol | 534-52-1 | 99.6       | 107.421.2DP      | 991 ± 24.09         |
| 1-methylnaphthalene        | 90-12-0  | 97.1       | 249.7.5P         | 999.2 ± 13.95       |
| 2-methylnaphthalene        | 91-57-6  | 97.4       | 68.7.2P          | 1006 ± 22.38        |
| 2-methylphenol             | 95-48-7  | 99.6       | 114.7.3P         | 1001 ± 13.87        |
| 3-methylphenol             | 108-39-4 | 99.1       | 115.7.4P         | 499.7 ± 6.92        |
| 4-methylphenol             | 106-44-5 | 99.5       | 116.7.1P         | 501.2 ± 6.94        |
| naphthalene                | 91-20-3  | 99.8       | 26.9.1P          | 1018 ± 9.97         |
| 2-nitroaniline             | 88-74-4  | 99.7       | 69.29.1P         | 999.6 ± 9.79        |
| 3-nitroaniline             | 99-09-2  | 100        | 70.7.3P          | 1000 ± 9.74         |
| 4-nitroaniline             | 100-01-6 | 99.7       | 71.29.1P         | 1001 ± 9.8          |
| nitrobenzene               | 98-95-3  | 100        | 94.7.1P          | 1000 ± 13.85        |
| 2-nitrophenol              | 88-75-5  | 99.1       | 108.29.1P        | 996.5 ± 13.81       |
| 4-nitrophenol              | 100-02-7 | 100        | 109.7.1P         | 1000 ± 13.82        |
| N-nitrosodimethylamine     | 62-75-9  | 99.5       | 57.3.19P         | 998.5 ± 14.67       |
| N-nitrosodi-n-propylamine  | 621-64-7 | 99.8       | 59.286.1P        | 996.8 ± 17          |
| pentachlorophenol          | 87-86-5  | 99         | 110.1.7P         | 1004 ± 13.92        |
| phenanthrene               | 85-01-8  | 99.7       | 27.1.5P          | 999 ± 12.87         |
| phenol                     | 108-95-2 | 100        | 112.7.1P         | 998.5 ± 13.8        |
| pyrene                     | 129-00-0 | 99.2       | 28.9.2P          | 998.9 ± 9.78        |
| pyridine                   | 110-86-1 | 100        | 101.24.1P        | 999 ± 9.73          |
| 2,3,4,6-Tetrachlorophenol  | 58-90-2  | 91.8       | 120.421.1P       | 996.5 ± 13.92       |

\*Not a certified value

*Kerry Kane*

Certified By:

Kerry Kane  
Chemist

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# Certificate of Analysis

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Catalog No.: Z-110381-01

Lot No.: 520963

Expiration Date: 10/10/2028

| Compound               | CAS No.  | Purity (%) | Compound Lot No. | Concentration, mg/L |
|------------------------|----------|------------|------------------|---------------------|
| 1,2,4-trichlorobenzene | 120-82-1 | 99.6       | 54.29.1P         | 999.6 ± 9.79        |
| 2,4,5-trichlorophenol  | 95-95-4  | 96.5       | 121.7.1.1P       | 999.5 ± 13.85       |
| 2,4,6-trichlorophenol  | 88-06-2  | 99.6       | 113.7.1P         | 996 ± 13.8          |

\*Not a certified value



Certified By:

Kerry Kane  
Chemist

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Concentration (correct for purity) and uncertainty (95% confidence) values  
listed are determined gravimetrically.



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

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.



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. :** 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.



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. :** 31615 **Lot No.:** A0212955  
**Description :** GC/MS Tuning Mixture  
GC/MS Tuning Mixture 1,000µg/mL, Methylene Chloride, 1mL/ampul  
**Container Size :** 2 mL **Pkg Amt:** > 1 mL  
**Expiration Date :** June 30, 2027 **Storage:** 10°C or colder  
**Handling:** Contains carcinogen/reproductive toxin. **Ship:** Ambient

### CERTIFIED VALUES

| Elution Order | Compound                             | CAS #     | Lot #       | Purity | Grav. Conc. (weight/volume) | Expanded Uncertainty * (95% C.L.; K=2) |
|---------------|--------------------------------------|-----------|-------------|--------|-----------------------------|----------------------------------------|
| 1             | Pentachlorophenol                    | 87-86-5   | RP240517RSR | 99%    | 1,004.5 µg/mL               | +/- 44.8902                            |
| 2             | DFTPP (Decafluorotriphenylphosphine) | 5074-71-5 | Q117-147    | 99%    | 1,004.5 µg/mL               | +/- 44.8902                            |
| 3             | Benzidine                            | 92-87-5   | S240430RSR  | 99%    | 1,006.0 µg/mL               | +/- 44.9572                            |
| 4             | 4,4'-DDT                             | 50-29-3   | S240530RSR  | 97%    | 1,000.1 µg/mL               | +/- 44.6922                            |

\* Expanded Uncertainty displayed in same units as Grav. Conc.

**Solvent:** Methylene chloride  
**CAS #** 75-09-2  
**Purity** 99%

S12577  
↓  
S12579 } RC  
8/2/24

Quality Confirmation Test

**Column:**  
30m x 0.25mm x 0.25µm  
Rtx-5 (cat.#10223)

**Carrier Gas:**  
hydrogen-constant pressure 10 psi.

**Temp. Program:**  
75°C (hold 1 min.) to 330°C  
@ 20°C/min. (hold 10 min.)

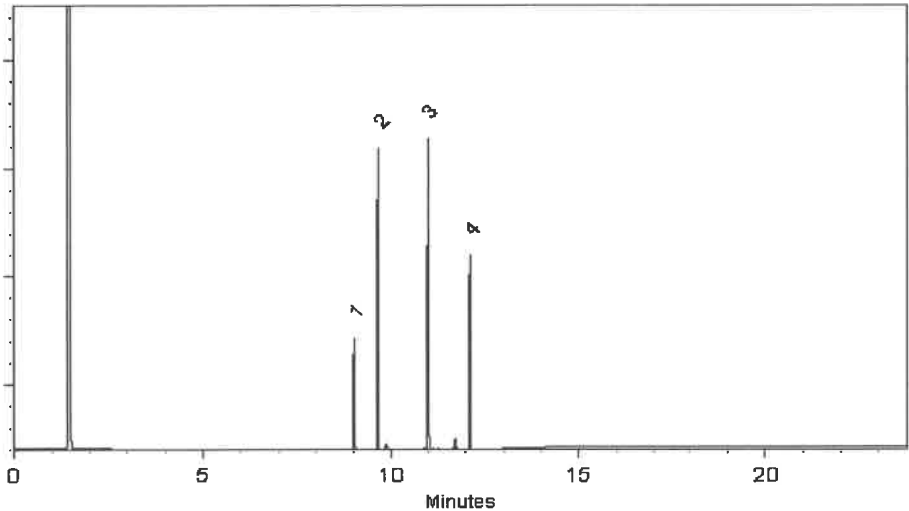
**Inj. Temp:**  
250°C

**Det. Temp:**  
330°C

**Det. Type:**  
FID

**Split Vent:**  
10 ml/min.

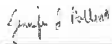
**Inj. Vol**  
1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

  
Ethan Winiarski - Operations Tech I

Date Mixed: 19-Jun-2024      Balance Serial # 1128353505

  
Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 26-Jun-2024

Manufactured under Restek's ISO 9001:2015  
Registered Quality System  
Certificate #FM 80397



110 Benner Circle  
Bellefonte, PA 16823-8812  
Tel: 1-814-353-1300  
Fax: 1-814-353-1309

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## CERTIFIED REFERENCE MATERIAL

# Certificate of Analysis

chromatographic plus



### FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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**Catalog No. :** 31206 **Lot No.:** A0212266

**Description :** SV Internal Standard Mix 2mg/ml  
SV Internal Standard Mix 2mg/ml 2000 µg/ml, Methylene Chloride, 1mL/ampul

**Container Size :** 2 mL **Pkg Amt:** > 1 mL

**Expiration Date :** April 30, 2030 **Storage:** 10°C or colder

**Handling:** Sonication required. Mix is photosensitive. **Ship:** Ambient

### CERTIFIED VALUES

| Elution Order | Compound               | CAS #      | Lot #    | Purity | Grav. Conc. (weight/volume) | Expanded Uncertainty * (95% C.L.; K=2) |
|---------------|------------------------|------------|----------|--------|-----------------------------|----------------------------------------|
| 1             | 1,4-Dichlorobenzene-d4 | 3855-82-1  | PR-30447 | 99%    | 2,000.6 µg/mL               | +/- 90.1075                            |
| 2             | Naphthalene-d8         | 1146-65-2  | M-2180   | 99%    | 2,000.3 µg/mL               | +/- 90.0925                            |
| 3             | Acenaphthene-d10       | 15067-26-2 | PR-33507 | 99%    | 2,000.4 µg/mL               | +/- 90.1000                            |
| 4             | Phenanthrene-d10       | 1517-22-2  | PR-34099 | 99%    | 2,000.5 µg/mL               | +/- 90.1037                            |
| 5             | Chrysene-d12           | 1719-03-5  | PR-33506 | 99%    | 2,000.7 µg/mL               | +/- 90.1112                            |
| 6             | Perylene-d12           | 1520-96-3  | PR-33205 | 99%    | 2,000.6 µg/mL               | +/- 90.1075                            |

\* Expanded Uncertainty displayed in same units as Grav. Conc.

**Solvent:** Methylene chloride  
**CAS #** 75-09-2  
**Purity** 99%

S12645  
↓  
S12674  
AC  
10/1/24



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-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          |

~~512280~~ } RCL  
↓  
~~512284~~ } 05/24/24

New Numbers Generated.

512790 } RCL  
↓  
512794 } 11/12/24

\*Not a certified value

Manufactured by o2si smart solutions, Accredited to ISO 9001:2008 by NSF and ISO/IEC 17025:2005 (Certification No. 3031.01) and ISO Guide 34:2009 (Certification No. 3031.02) by A2LA

Certified By: \_\_\_\_\_

Shane Overcash  
Chemist

All weights are traceable through N. I. S. T. Test No. 822/264157-00.  
Concentration (correct for purity) and uncertainty (95% confidence) values listed are determined 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.:** A0219438

**Description :** 8270 MegaMix®  
8270 MegaMix® 500-1000 µg/mL, Methylene Chloride, 1mL/ampul

**Container Size :** 2 mL **Pkg Amt:** > 1 mL

**Expiration Date :** September 30, 2025 **Storage:** 0°C or colder

**Handling:** Sonication required. Mix is photosensitive. **Ship:** Ambient

S12963  
↓  
S12992 } AC  
12/17/20

### CERTIFIED VALUES

| Elution Order | Compound                     | CAS #    | Lot #       | Purity | Grav. Conc. (weight/volume) | Expanded Uncertainty * (95% C.L.; K=2) |
|---------------|------------------------------|----------|-------------|--------|-----------------------------|----------------------------------------|
| 1             | Pyridine                     | 110-86-1 | SHBP6240    | 99%    | 1,008.3 µg/mL               | +/- 36.6849                            |
| 2             | N-Nitrosodimethylamine       | 62-75-9  | S240313RSR  | 99%    | 1,008.6 µg/mL               | +/- 36.6985                            |
| 3             | Phenol                       | 108-95-2 | MKCK1120    | 99%    | 1,003.5 µg/mL               | +/- 36.5120                            |
| 4             | Aniline                      | 62-53-3  | X22F726     | 99%    | 1,002.9 µg/mL               | +/- 36.4893                            |
| 5             | Bis(2-chloroethyl)ether      | 111-44-4 | 002891T24M  | 99%    | 1,003.0 µg/mL               | +/- 36.4938                            |
| 6             | 2-Chlorophenol               | 95-57-8  | STBJ3909    | 99%    | 1,005.6 µg/mL               | +/- 36.5894                            |
| 7             | 1,3-Dichlorobenzene          | 541-73-1 | BCCD5315    | 99%    | 1,004.1 µg/mL               | +/- 36.5348                            |
| 8             | 1,4-Dichlorobenzene          | 106-46-7 | MKBS7929V   | 99%    | 1,002.1 µg/mL               | +/- 36.4620                            |
| 9             | Benzyl alcohol               | 100-51-6 | SHBK5469    | 99%    | 1,003.5 µg/mL               | +/- 36.5120                            |
| 10            | 1,2-Dichlorobenzene          | 95-50-1  | SHBL6287    | 99%    | 1,005.3 µg/mL               | +/- 36.5757                            |
| 11            | 2-Methylphenol (o-cresol)    | 95-48-7  | SHBN7598    | 99%    | 1,008.4 µg/mL               | +/- 36.6894                            |
| 12            | 2,2'-oxybis(1-chloropropane) | 108-60-1 | 29-MAR-45-5 | 99%    | 1,004.6 µg/mL               | +/- 36.5530                            |
| 13            | 3-Methylphenol (m-cresol)    | 108-39-4 | STBJ0710    | 99%    | 502.1 µg/mL                 | +/- 18.2697                            |
| 14            | 4-Methylphenol (p-cresol)    | 106-44-5 | SHBN3411    | 99%    | 503.8 µg/mL                 | +/- 18.3288                            |
| 15            | N-Nitroso-di-n-propylamine   | 621-64-7 | N63MG       | 99%    | 1,006.5 µg/mL               | +/- 36.6212                            |
| 16            | Hexachloroethane             | 67-72-1  | DAXRI       | 99%    | 1,004.5 µg/mL               | +/- 36.5484                            |
| 17            | Nitrobenzene                 | 98-95-3  | 10224044    | 99%    | 1,002.5 µg/mL               | +/- 36.4757                            |

|    |                                               |           |                  |       |         |       |             |
|----|-----------------------------------------------|-----------|------------------|-------|---------|-------|-------------|
| 18 | Isophorone                                    | 78-59-1   | MKCR3249         | 99%   | 1,003.4 | µg/mL | +/- 36.5075 |
| 19 | 2-Nitrophenol                                 | 88-75-5   | RP230710         | 99%   | 1,002.5 | µg/mL | +/- 36.4757 |
| 20 | 2,4-Dimethylphenol                            | 105-67-9  | XW5GK            | 99%   | 1,006.5 | µg/mL | +/- 36.6212 |
| 21 | Bis(2-chloroethoxy)methane                    | 111-91-1  | 15705100         | 99%   | 1,006.6 | µg/mL | +/- 36.6257 |
| 22 | 2,4-Dichlorophenol                            | 120-83-2  | BCKK6969         | 99%   | 1,001.5 | µg/mL | +/- 36.4393 |
| 23 | 1,2,4-Trichlorobenzene                        | 120-82-1  | SHBP5900         | 99%   | 1,006.4 | µg/mL | +/- 36.6166 |
| 24 | Naphthalene                                   | 91-20-3   | STBL1057         | 99%   | 1,002.1 | µg/mL | +/- 36.4620 |
| 25 | 4-Chloroaniline                               | 106-47-8  | BCCJ3217         | 99%   | 1,004.4 | µg/mL | +/- 36.5439 |
| 26 | Hexachlorobutadiene                           | 87-68-3   | X05J             | 98%   | 1,002.5 | µg/mL | +/- 36.4771 |
| 27 | 4-Chloro-3-methylphenol                       | 59-50-7   | BCCD4461         | 99%   | 1,004.5 | µg/mL | +/- 36.5484 |
| 28 | 2-Methylnaphthalene                           | 91-57-6   | STBL3028         | 99%   | 1,000.0 | µg/mL | +/- 36.3847 |
| 29 | 1-Methylnaphthalene                           | 90-12-0   | 5234.00-8        | 98%   | 990.2   | µg/mL | +/- 36.0269 |
| 30 | Hexachlorocyclopentadiene                     | 77-47-4   | 099063I14L       | 98%   | 1,001.3 | µg/mL | +/- 36.4325 |
| 31 | 2,4,6-Trichlorophenol                         | 88-06-2   | STBK8870         | 99%   | 1,006.4 | µg/mL | +/- 36.6166 |
| 32 | 2,4,5-Trichlorophenol                         | 95-95-4   | 3YFRE            | 97%   | 1,004.6 | µg/mL | +/- 36.5505 |
| 33 | 2-Chloronaphthalene                           | 91-58-7   | RPN7O            | 99%   | 1,004.3 | µg/mL | +/- 36.5393 |
| 34 | 2-Nitroaniline                                | 88-74-4   | RP240715RSR      | 99%   | 1,004.4 | µg/mL | +/- 36.5439 |
| 35 | 1,4-Dinitrobenzene                            | 100-25-4  | RP240703RSR      | 99%   | 1,002.8 | µg/mL | +/- 36.4847 |
| 36 | Acenaphthylene                                | 208-96-8  | RP241029RSR      | 98%   | 1,000.0 | µg/mL | +/- 36.3835 |
| 37 | 1,3-Dinitrobenzene                            | 99-65-0   | TRC3-1075941-2-1 | 99%   | 1,006.3 | µg/mL | +/- 36.6121 |
| 38 | Dimethylphthalate                             | 131-11-3  | 358221L17K       | 99%   | 1,008.9 | µg/mL | +/- 36.7076 |
| 39 | 2,6-Dinitrotoluene                            | 606-20-2  | BCCG1833         | 99%   | 1,006.6 | µg/mL | +/- 36.6257 |
| 40 | 1,2-Dinitrobenzene                            | 528-29-0  | RP240701RSR      | 99%   | 1,002.5 | µg/mL | +/- 36.4757 |
| 41 | Acenaphthene                                  | 83-32-9   | MKCR7169         | 99%   | 1,000.0 | µg/mL | +/- 36.3847 |
| 42 | 3-Nitroaniline                                | 99-09-2   | RP240708RSR      | 99%   | 1,004.6 | µg/mL | +/- 36.5530 |
| 43 | 2,4-Dinitrophenol                             | 51-28-5   | D240927RSR       | ----% | 1,005.6 | µg/mL | +/- 36.5894 |
| 44 | Dibenzofuran                                  | 132-64-9  | MKCN1772         | 99%   | 1,003.5 | µg/mL | +/- 36.5120 |
| 45 | 2,4-Dinitrotoluene                            | 121-14-2  | 102869V26E       | 99%   | 1,008.3 | µg/mL | +/- 36.6849 |
| 46 | 4-Nitrophenol                                 | 100-02-7  | 20241029-2-AN    | 99%   | 1,004.8 | µg/mL | +/- 36.5575 |
| 47 | 2,3,4,6-Tetrachlorophenol                     | 58-90-2   | PR-34476         | 99%   | 1,005.8 | µg/mL | +/- 36.5939 |
| 48 | 2,3,5,6-Tetrachlorophenol                     | 935-95-5  | RP231219RSR      | 99%   | 1,006.4 | µg/mL | +/- 36.6166 |
| 49 | Fluorene                                      | 86-73-7   | 10246250         | 98%   | 1,000.7 | µg/mL | +/- 36.4102 |
| 50 | 4-Chlorophenyl phenyl ether                   | 7005-72-3 | MKCT7248         | 99%   | 1,004.9 | µg/mL | +/- 36.5621 |
| 51 | Diethylphthalate                              | 84-66-2   | BCCJ6241         | 99%   | 1,003.9 | µg/mL | +/- 36.5257 |
| 52 | 4-Nitroaniline                                | 100-01-6  | RP230111         | 99%   | 1,006.6 | µg/mL | +/- 36.6257 |
| 53 | 4,6-Dinitro-2-methylphenol (Dinitro-o-cresol) | 534-52-1  | S241008RSR       | 99%   | 1,001.3 | µg/mL | +/- 36.4302 |

|    |                            |          |              |     |         |       |             |
|----|----------------------------|----------|--------------|-----|---------|-------|-------------|
| 54 | Diphenylamine              | 122-39-4 | MKCT1512     | 99% | 1,003.0 | µg/mL | +/- 36.4938 |
| 55 | Azobenzene                 | 103-33-3 | BCKK0887     | 99% | 1,002.4 | µg/mL | +/- 36.4711 |
| 56 | 4-Bromophenyl phenyl ether | 101-55-3 | STBH6361     | 99% | 1,008.8 | µg/mL | +/- 36.7031 |
| 57 | Hexachlorobenzene          | 118-74-1 | 15458400     | 99% | 1,005.1 | µg/mL | +/- 36.5712 |
| 58 | Pentachlorophenol          | 87-86-5  | RP240517RSR  | 99% | 1,005.9 | µg/mL | +/- 36.5984 |
| 59 | Phenanthrene               | 85-01-8  | MKCT3391     | 99% | 1,004.9 | µg/mL | +/- 36.5621 |
| 60 | Anthracene                 | 120-12-7 | 101492T18R   | 99% | 1,005.1 | µg/mL | +/- 36.5712 |
| 61 | Carbazole                  | 86-74-8  | 15276700     | 99% | 1,005.4 | µg/mL | +/- 36.5803 |
| 62 | Di-n-butylphthalate        | 84-74-2  | MKCN4337     | 99% | 1,006.3 | µg/mL | +/- 36.6121 |
| 63 | Fluoranthene               | 206-44-0 | MKCQ4728     | 99% | 1,003.5 | µg/mL | +/- 36.5120 |
| 64 | Pyrene                     | 129-00-0 | BCKK2592     | 99% | 1,002.0 | µg/mL | +/- 36.4575 |
| 65 | Benzyl butyl phthalate     | 85-68-7  | X12I018      | 99% | 1,007.5 | µg/mL | +/- 36.6576 |
| 66 | Bis(2-ethylhexyl)adipate   | 103-23-1 | MKCM1988     | 99% | 1,005.9 | µg/mL | +/- 36.5984 |
| 67 | Benz(a)anthracene          | 56-55-3  | I70012022BAA | 99% | 1,005.5 | µg/mL | +/- 36.5848 |
| 68 | Chrysene                   | 218-01-9 | RP241007RSR  | 99% | 1,005.3 | µg/mL | +/- 36.5757 |
| 69 | Bis(2-ethylhexyl)phthalate | 117-81-7 | MKCS8065     | 99% | 1,007.5 | µg/mL | +/- 36.6576 |
| 70 | Di-n-octyl phthalate       | 117-84-0 | 15566400     | 99% | 1,002.3 | µg/mL | +/- 36.4666 |
| 71 | Benzo(b)fluoranthene       | 205-99-2 | 052013B      | 99% | 1,004.1 | µg/mL | +/- 36.5348 |
| 72 | Benzo(k)fluoranthene       | 207-08-9 | 012022K      | 99% | 1,002.8 | µg/mL | +/- 36.4847 |
| 73 | Benzo(a)pyrene             | 50-32-8  | NQLXA        | 98% | 1,006.2 | µg/mL | +/- 36.6108 |
| 74 | Indeno(1,2,3-cd)pyrene     | 193-39-5 | 12-JKL-118-9 | 97% | 1,001.8 | µg/mL | +/- 36.4490 |
| 75 | Dibenz(a,h)anthracene      | 53-70-3  | 2-ASA-59-1   | 99% | 1,003.3 | µg/mL | +/- 36.5029 |
| 76 | Benzo(g,h,i)perylene       | 191-24-2 | RP241014RSR  | 98% | 1,003.8 | µg/mL | +/- 36.5217 |

\* Expanded Uncertainty displayed in same units as Grav. Conc.

**Solvent:** Methylene chloride  
**CAS #** 75-09-2  
**Purity** 99%

#### Tech Tips:

N-Nitrosodiphenylamine (86-30-6) is prone to breakdown in the injection port and will be converted to Diphenylamine (122-39-4). When comparing the response of Diphenylamine to mixtures manufactured using N-Nitrosodiphenylamine, a difference in response will be observed. The ratio of the MW can be used to calculate the theoretical concentration of the N-Nitrosodiphenylamine.



# SHIPPING DOCUMENTS

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SHIP TO:

Attn: **Sohil Jodhani**Alliance Technical Group, LLC - Newark  
284 Sheffield St.

Mountainside, NJ 07092 -

Purchase Order # .  
Packing Order #: 247813Order #: **247813**

Order Date: 5/30/2025

Order Time: 4:23:05 PM

Your Account #: 3552

Sales Person: Chris Dippold

Inspected By: **Chris Dippold**Received on 6/2/2025.  
14:05

| <u>PART #</u>            | <u>LOT #</u> | <u>DESCRIPTION</u>                           | <u>Unit Size</u> | <u>QTY</u> |
|--------------------------|--------------|----------------------------------------------|------------------|------------|
| <b>Quick Turn Around</b> |              |                                              |                  |            |
| 38072                    | 062624       | PT Semi-Volatiles in Non-Potable Water - CLP | 2 mL             | 1          |
| 38073                    | 032124       | PT Semi-Volatiles in Non-Potable Water - CLP | 2 mL             | 1          |
| FedEX# 2356-974244       |              |                                              |                  |            |

Ship Via: Ground Collect

THIS IS NOT AN INVOICE, TERMS: NET 30 DAYS, FOB HAMDEN, CT



ISO 9001 Registered • ANAB Accredited



### 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       |