

**DATA PACKAGE  
SEMI-VOLATILE ORGANICS**

**PROJECT NAME : NWIRP BETHPAGE 112G08005-WE13**

**TETRA TECH NUS, INC.  
661 Andersen Drive  
Suite 200  
Pittsburgh, PA - 15220-2745  
Phone No: 412-921-7090**

**ORDER ID : Q3691  
ATTENTION : Ernie Wu**



**Laboratory Certification ID # 20012**



|                                             |     |
|---------------------------------------------|-----|
| 1) SEMI-VOLATILE DATA                       | 2   |
| 2) Signature Page                           | 4   |
| 3) Case Narrative                           | 5   |
| 4) Qualifier Page                           | 7   |
| 5) Conformance/Non Conformance              | 8   |
| 6) QA Checklist                             | 10  |
| 7) Chronicle                                | 11  |
| 8) Hit Summary                              | 12  |
| 9) QC Data Summary For SVOC-SIMGroup1       | 13  |
| 9.1) Deuterated Monitoring Compound Summary | 14  |
| 9.2) LCS/LCSD Summary                       | 15  |
| 9.3) Method Blank Summary                   | 17  |
| 9.4) GS/MS Tune Summary                     | 18  |
| 9.5) Internal Standard Area and RT Summary  | 20  |
| 10) Sample Data                             | 22  |
| 10.1) RW7-SP100-20251118                    | 23  |
| 10.2) RW7-SP201-20251118                    | 35  |
| 10.3) RW7-SP302-20251118                    | 46  |
| 10.4) RW7-SP303-20251118                    | 57  |
| 11) Calibration Data Summary                | 68  |
| 11.1) Initial Calibration Data              | 3   |
| 11.1.1) BN112725                            | 69  |
| 11.2) Continued Calibration Data            | 253 |
| 11.2.1) BN038230.D                          | 253 |
| 11.2.2) BN038248.D                          | 279 |
| 12) QC Sample Data                          | 305 |
| 12.1) Tune Raw Data                         | 306 |
| 12.2) Method Blank Data                     | 314 |
| 12.3) LCS Data                              | 324 |
| 12.4) LCSD Data                             | 348 |
| 13) Manual Integration                      | 372 |
| 14) Analytical Runlogs                      | 374 |
| 15) Extraction Logs                         | 380 |
| 15.1) PB170712.pdf                          | 380 |
| 15.2) PB170712IC.pdf                        | 382 |

Table Of Contents for Q3691

|                        |     |
|------------------------|-----|
| 16) Standard Prep Logs | 383 |
| 17) Shipping Document  | 438 |
| 17.1) Chain Of Custody | 439 |
| 17.2) Lab Certificate  | 440 |
| 18) Not Reviewed Data  | 441 |

|    |
|----|
| 1  |
| 2  |
| 3  |
| 4  |
| 5  |
| 6  |
| 7  |
| 8  |
| 9  |
| 10 |
| 11 |
| 12 |
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| 15 |
| 16 |
| 17 |
| 18 |

## Cover Page

**Order ID :** Q3691

**Project ID :** NWIRP Bethpage 112G08005-WE13

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

### Lab Sample Number

Q3691-01  
Q3691-02  
Q3691-03  
Q3691-04

### Client Sample Number

RW7-SP100-20251118  
RW7-SP201-20251118  
RW7-SP302-20251118  
RW7-SP303-20251118

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

Signature : \_\_\_\_\_

Date: 12/5/2025

NYDOH CERTIFICATION NO - 11376

NJDEP CERTIFICATION NO - 20012

## **CASE NARRATIVE**

**Tetra Tech NUS, Inc.**

**Project Name: NWIRP Bethpage 112G08005-WE13**

**Project Manager : Ernie Wu**

**Order ID # Q3691**

**Test Name: SVOC-SIMGroup1**

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

4 Water samples were received on 11/20/2025.

### **B. Parameters**

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

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

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

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

The Holding Times were met for all analysis.

The Surrogate recoveries were met for all analysis except for PB170712BS [2-Fluorobiphenyl - 113%], PB170712BSD [2-Fluorobiphenyl - 107%], RW7-SP302-20251118 [2-Fluorobiphenyl - 115%] and RW7-SP303-20251118 [Terphenyl-d14 - 147%], The failure surrogates not associated with the client parameters list, therefore no corrective action was taken.

The Internal Standards Areas were met for all analysis.

The Retention Times were met for all analysis.

The RPD were met for all analysis.

The Blank Spike met requirements for all compounds.

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.

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

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

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



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The not QT review data is reported in the Miscellaneous.

**F. Manual Integration Comments:**

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

---

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

Signature\_\_\_\_\_

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## DATA REPORTING QUALIFIERS- ORGANIC

For reporting results, the following “ Results Qualifiers” are used:

|           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|-----------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Value     | If the result is a value greater than or equal to the detection limit, report the value                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <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: Q3691

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>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 were met for all analysis except for PB170712BS [2-<br>Fluorobiphenyl - 113%], PB170712BSD [2-Fluorobiphenyl - 107%], RW7-SP302-<br>20251118 [2-Fluorobiphenyl - 115%] and RW7-SP303-20251118 [Terphenyl-d14 -<br>147%], The failure surrogates not associated with the client parameters list, therefore<br>no corrective action was taken. |    | ✓  |     |
| 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 compounds.                                                                                                                                                                                                                                                                                          |    |    | ✓   |
| 9. | Internal Standard Area/Retention Time Shift Meet Criteria<br><br>Comments:                                                                                                                                                                                                                                                                                                                                                                                                                                                |    |    | ✓   |

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

|     |                                                           | NA | NO | YES |
|-----|-----------------------------------------------------------|----|----|-----|
| 10. | Extraction Holding Time Met                               |    |    | ✓   |
|     | If not met, list number of days exceeded for each sample: |    |    |     |
| 11. | Analysis Holding Time Met                                 |    |    | ✓   |
|     | If not met, list number of days exceeded for each sample: |    |    |     |

ADDITIONAL COMMENTS:

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

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

The not QT review data is reported in the Miscellaneous.

\_\_\_\_\_  
QA REVIEW

\_\_\_\_\_  
Date

APPENDIX A

QA REVIEW GENERAL DOCUMENTATION

Project #: Q3691

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 Custody

✓

Were the samples received within hold time

✓

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

✓

**ANALYTICAL:**

Was method requirement followed?

✓

Was client requirement followed?

✓

Does the case narrative summarize all QC failure?

✓

All runlogs and manual integration are reviewed for requirements

✓

All manual calculations and /or hand notations verified

✓

QA Review Signature: SOHIL JODHANI

Date: 12/05/2025

## LAB CHRONICLE

|                 |                      |                   |                               |
|-----------------|----------------------|-------------------|-------------------------------|
| <b>OrderID:</b> | Q3691                | <b>OrderDate:</b> | 11/20/2025 10:01:00 AM        |
| <b>Client:</b>  | Tetra Tech NUS, Inc. | <b>Project:</b>   | NWIRP Bethpage 112G08005-WE13 |
| <b>Contact:</b> | Ernie Wu             | <b>Location:</b>  | A11                           |

| LabID           | ClientID                  | Matrix       | Test           | Method        | Sample Date     | Prep Date | Anal Date | Received        |
|-----------------|---------------------------|--------------|----------------|---------------|-----------------|-----------|-----------|-----------------|
| <b>Q3691-01</b> | <b>RW7-SP100-20251118</b> | <b>Water</b> |                |               | <b>11/18/25</b> |           |           | <b>11/20/25</b> |
|                 |                           |              | SVOC-SIMGroup1 | 8270-Modified |                 | 11/21/25  | 12/02/25  |                 |
| <b>Q3691-02</b> | <b>RW7-SP201-20251118</b> | <b>Water</b> |                |               | <b>11/18/25</b> |           |           | <b>11/20/25</b> |
|                 |                           |              | SVOC-SIMGroup1 | 8270-Modified |                 | 11/21/25  | 12/02/25  |                 |
| <b>Q3691-03</b> | <b>RW7-SP302-20251118</b> | <b>Water</b> |                |               | <b>11/18/25</b> |           |           | <b>11/20/25</b> |
|                 |                           |              | SVOC-SIMGroup1 | 8270-Modified |                 | 11/21/25  | 12/02/25  |                 |
| <b>Q3691-04</b> | <b>RW7-SP303-20251118</b> | <b>Water</b> |                |               | <b>11/18/25</b> |           |           | <b>11/20/25</b> |
|                 |                           |              | SVOC-SIMGroup1 | 8270-Modified |                 | 11/21/25  | 12/02/25  |                 |



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Fax : 908 789 8922

### Hit Summary Sheet SW-846

SDG No.: Q3691

Client: Tetra Tech NUS, Inc.

| Sample ID            | Client ID          | Parameter | Concentration | C     | MDL  | LOD | RDL | Units |
|----------------------|--------------------|-----------|---------------|-------|------|-----|-----|-------|
| Client ID :          | RW7-SP100-20251118 |           |               |       |      |     |     |       |
| Q3691-01             | RW7-SP100-20251118 | WATER     | 1,4-Dioxane   | 2.900 | 0.07 | 0.2 | 0.2 | ug/L  |
| Total Svoc :         |                    |           |               | 2.90  |      |     |     |       |
| Total Concentration: |                    |           |               | 2.90  |      |     |     |       |



# QC SUMMARY

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### Surrogate Summary

SW-846

SDG No.: Q3691

Client: Tetra Tech NUS, Inc.

Analytical Method: 8270-Modified

| Lab Sample ID | Client ID          | Parameter               | Spike (PPM) | Result (PPM) | Recovery (%) | Qual | Limits (%) |      |
|---------------|--------------------|-------------------------|-------------|--------------|--------------|------|------------|------|
|               |                    |                         |             |              |              |      | Low        | High |
| PB170712BL    | PB170712BL         | 2-Methylnaphthalene-d10 | 0.4         | 0.32         | 79           |      | 30         | 150  |
|               |                    | Fluoranthene-d10        | 0.4         | 0.36         | 91           |      | 30         | 150  |
|               |                    | Nitrobenzene-d5         | 0.4         | 0.36         | 90           |      | 55         | 111  |
|               |                    | 2-Fluorobiphenyl        | 0.4         | 0.39         | 98           |      | 53         | 106  |
|               |                    | Terphenyl-d14           | 0.4         | 0.35         | 88           |      | 58         | 132  |
| PB170712BS    | PB170712BS         | 2-Methylnaphthalene-d10 | 0.4         | 0.41         | 101          |      | 30         | 150  |
|               |                    | Fluoranthene-d10        | 0.4         | 0.36         | 90           |      | 30         | 150  |
|               |                    | Nitrobenzene-d5         | 0.4         | 0.40         | 99           |      | 55         | 111  |
|               |                    | 2-Fluorobiphenyl        | 0.4         | 0.45         | 113          | *    | 53         | 106  |
|               |                    | Terphenyl-d14           | 0.4         | 0.36         | 91           |      | 58         | 132  |
| PB170712BSD   | PB170712BSD        | 2-Methylnaphthalene-d10 | 0.4         | 0.35         | 86           |      | 30         | 150  |
|               |                    | Fluoranthene-d10        | 0.4         | 0.39         | 97           |      | 30         | 150  |
|               |                    | Nitrobenzene-d5         | 0.4         | 0.40         | 100          |      | 55         | 111  |
|               |                    | 2-Fluorobiphenyl        | 0.4         | 0.43         | 107          | *    | 53         | 106  |
|               |                    | Terphenyl-d14           | 0.4         | 0.32         | 79           |      | 58         | 132  |
| Q3691-01      | RW7-SP100-20251118 | 2-Methylnaphthalene-d10 | 0.4         | 0.28         | 70           |      | 30         | 150  |
|               |                    | Fluoranthene-d10        | 0.4         | 0.41         | 102          |      | 30         | 150  |
|               |                    | Nitrobenzene-d5         | 0.4         | 0.33         | 83           |      | 55         | 111  |
|               |                    | 2-Fluorobiphenyl        | 0.4         | 0.36         | 90           |      | 53         | 106  |
|               |                    | Terphenyl-d14           | 0.4         | 0.42         | 105          |      | 58         | 132  |
| Q3691-02      | RW7-SP201-20251118 | 2-Methylnaphthalene-d10 | 0.4         | 0.33         | 81           |      | 30         | 150  |
|               |                    | Fluoranthene-d10        | 0.4         | 0.45         | 113          |      | 30         | 150  |
|               |                    | Nitrobenzene-d5         | 0.4         | 0.39         | 97           |      | 55         | 111  |
|               |                    | 2-Fluorobiphenyl        | 0.4         | 0.40         | 100          |      | 53         | 106  |
|               |                    | Terphenyl-d14           | 0.4         | 0.50         | 124          |      | 58         | 132  |
| Q3691-03      | RW7-SP302-20251118 | 2-Methylnaphthalene-d10 | 0.4         | 0.38         | 94           |      | 30         | 150  |
|               |                    | Fluoranthene-d10        | 0.4         | 0.47         | 118          |      | 30         | 150  |
|               |                    | Nitrobenzene-d5         | 0.4         | 0.44         | 111          |      | 55         | 111  |
|               |                    | 2-Fluorobiphenyl        | 0.4         | 0.46         | 115          | *    | 53         | 106  |
|               |                    | Terphenyl-d14           | 0.4         | 0.49         | 122          |      | 58         | 132  |
| Q3691-04      | RW7-SP303-20251118 | 2-Methylnaphthalene-d10 | 0.4         | 0.31         | 78           |      | 30         | 150  |
|               |                    | Fluoranthene-d10        | 0.4         | 0.46         | 116          |      | 30         | 150  |
|               |                    | Nitrobenzene-d5         | 0.4         | 0.37         | 92           |      | 55         | 111  |
|               |                    | 2-Fluorobiphenyl        | 0.4         | 0.43         | 106          |      | 53         | 106  |
|               |                    | Terphenyl-d14           | 0.4         | 0.59         | 147          | *    | 58         | 132  |

### Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

|                 |                             |                           |                      |
|-----------------|-----------------------------|---------------------------|----------------------|
| <b>SDG No.:</b> | <u>Q3691</u>                | <b>Analytical Method:</b> | <u>8270-Modified</u> |
| <b>Client:</b>  | <u>Tetra Tech NUS, Inc.</u> | <b>DataFile:</b>          | <u>BN038232.D</u>    |

| Lab Sample ID | Parameter   | Spike | Result | Unit | Rec | RPD | Qual | RPD  | Low | Limits |     |
|---------------|-------------|-------|--------|------|-----|-----|------|------|-----|--------|-----|
|               |             |       |        |      |     |     |      | Qual |     | High   | RPD |
| PB170712BS    | 1,4-Dioxane | 0.4   | 0.33   | ug/L | 83  |     |      |      | 70  | 130    |     |

### Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

|                 |                             |                           |                      |
|-----------------|-----------------------------|---------------------------|----------------------|
| <b>SDG No.:</b> | <u>Q3691</u>                | <b>Analytical Method:</b> | <u>8270-Modified</u> |
| <b>Client:</b>  | <u>Tetra Tech NUS, Inc.</u> | <b>DataFile:</b>          | <u>BN038238.D</u>    |

| Lab Sample ID | Parameter   | Spike | Result | Unit | Rec | RPD | Qual | RPD  | Limits |      | RPD |
|---------------|-------------|-------|--------|------|-----|-----|------|------|--------|------|-----|
|               |             |       |        |      |     |     |      | Qual | Low    | High |     |
| PB170712BSD   | 1,4-Dioxane | 0.4   | 0.30   | ug/L | 75  | 10  |      |      | 70     | 130  | 20  |

4B

SEMIVOLATILE METHOD BLANK SUMMARY

Client ID

PB170712BL

Lab Name: Alliance

Contract: TETR06

Lab Code: ACE

SDG NO.: Q3691

Lab File ID: BN038231.D

Lab Sample ID: PB170712BL

Instrument ID: BNA\_N

Date Extracted: 11/21/2025

Matrix: (soil/water) Water

Date Analyzed: 12/01/2025

Level: (low/med) LOW

Time Analyzed: 18:28

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 |
|--------------------|------------------|----------------|------------------|
| PB170712BS         | PB170712BS       | BN038232.D     | 12/01/2025       |
| PB170712BSD        | PB170712BSD      | BN038238.D     | 12/01/2025       |
| RW7-SP100-20251118 | Q3691-01         | BN038241.D     | 12/02/2025       |
| RW7-SP201-20251118 | Q3691-02         | BN038242.D     | 12/02/2025       |
| RW7-SP302-20251118 | Q3691-03         | BN038243.D     | 12/02/2025       |
| RW7-SP303-20251118 | Q3691-04         | BN038244.D     | 12/02/2025       |

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



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5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK  
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: Alliance  
Lab Code: ACE  
Lab File ID: BN038211.D  
Instrument ID: BNA\_N

Contract: TETR06  
SDG NO.: Q3691  
DFTPP Injection Date: 11/26/2025  
DFTPP Injection Time: 19:55

| m/e | ION ABUNDANCE CRITERIA             | % RELATIVE ABUNDANCE |
|-----|------------------------------------|----------------------|
| 68  | Less than 2.0% of mass 69          | 0.6 ( 1.8 ) 1        |
| 69  | Mass 69 relative abundance         | 100                  |
| 70  | Less than 2.0% of mass 69          | 0.2 ( 0.5 ) 1        |
| 197 | Less than 2.0% of mass 198         | 0.0                  |
| 198 | Base Peak, 100% relative abundance | 100                  |
| 199 | 5.0 to 9.0% of mass 198            | 6.6                  |
| 365 | Greater than 1% of mass 198        | 3.6                  |
| 441 | Present, but less than mass 443    | 78.5                 |
| 442 | Greater than 50% of mass 198       | 100                  |
| 443 | 15.0 - 24.0% of mass 442           | 18.4 (20.3) 2        |

1-Value is % mass 69

2-Value is % mass 442

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

| EPA<br>SAMPLE NO. | LAB<br>SAMPLE ID | LAB<br>FILE ID | DATE<br>ANALYZED | TIME<br>ANALYZED |
|-------------------|------------------|----------------|------------------|------------------|
| SSTDICC0.1        | SSTDICC0.1       | BN038212.D     | 11/26/2025       | 20:35            |
| SSTDICC0.2        | SSTDICC0.2       | BN038213.D     | 11/26/2025       | 21:12            |
| SSTDICCC0.4       | SSTDICCC0.4      | BN038214.D     | 11/26/2025       | 21:48            |
| SSTDICC0.8        | SSTDICC0.8       | BN038215.D     | 11/26/2025       | 22:25            |
| SSTDICC1.6        | SSTDICC1.6       | BN038216.D     | 11/26/2025       | 23:01            |
| SSTDICC3.2        | SSTDICC3.2       | BN038217.D     | 11/26/2025       | 23:37            |
| SSTDICC5.0        | SSTDICC5.0       | BN038218.D     | 11/27/2025       | 00:13            |



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

5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK  
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: Alliance  
Lab Code: ACE  
Lab File ID: BN038229.D  
Instrument ID: BNA\_N

Contract: TETR06  
SDG NO.: Q3691  
DFTPP Injection Date: 12/01/2025  
DFTPP Injection Time: 17:11

| m/e | ION ABUNDANCE CRITERIA             | % RELATIVE ABUNDANCE |
|-----|------------------------------------|----------------------|
| 68  | Less than 2.0% of mass 69          | 0.7 ( 1.8 ) 1        |
| 69  | Mass 69 relative abundance         | 100                  |
| 70  | Less than 2.0% of mass 69          | 0.2 ( 0.5 ) 1        |
| 197 | Less than 2.0% of mass 198         | 0.0                  |
| 198 | Base Peak, 100% relative abundance | 100                  |
| 199 | 5.0 to 9.0% of mass 198            | 6.7                  |
| 365 | Greater than 1% of mass 198        | 3.4                  |
| 441 | Present, but less than mass 443    | 87.9                 |
| 442 | Greater than 50% of mass 198       | 100                  |
| 443 | 15.0 - 24.0% of mass 442           | 16.5 (19.9) 2        |

1-Value is % mass 69

2-Value is % mass 442

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

| EPA<br>SAMPLE NO.  | LAB<br>SAMPLE ID | LAB<br>FILE ID | DATE<br>ANALYZED | TIME<br>ANALYZED |
|--------------------|------------------|----------------|------------------|------------------|
| SSTDCCC0.4         | SSTDCCC0.4       | BN038230.D     | 12/01/2025       | 17:51            |
| PB170712BL         | PB170712BL       | BN038231.D     | 12/01/2025       | 18:28            |
| PB170712BS         | PB170712BS       | BN038232.D     | 12/01/2025       | 19:04            |
| PB170712BSD        | PB170712BSD      | BN038238.D     | 12/01/2025       | 22:42            |
| RW7-SP100-20251118 | Q3691-01         | BN038241.D     | 12/02/2025       | 00:30            |
| RW7-SP201-20251118 | Q3691-02         | BN038242.D     | 12/02/2025       | 01:07            |
| RW7-SP302-20251118 | Q3691-03         | BN038243.D     | 12/02/2025       | 01:43            |
| RW7-SP303-20251118 | Q3691-04         | BN038244.D     | 12/02/2025       | 02:19            |
| SSTDCCC0.4EC       | SSTDCCC0.4       | BN038248.D     | 12/02/2025       | 04:44            |

8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: Alliance

Lab Code: ACE

SDG NO.: Q3691

Client ID : SSTDCCC0.4

Date Analyzed: 12/01/2025

Lab File ID: BN038230.D

Time Analyzed: 17:51

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           | 8054                | 7.768 | 24560               | 10.56  | 13292               | 14.43 |
| UPPER LIMIT           | 16108               | 8.268 | 49120               | 11.062 | 26584               | 14.93 |
| LOWER LIMIT           | 4027                | 7.268 | 12280               | 10.062 | 6646                | 13.93 |
| EPA SAMPLE NO.        |                     |       |                     |        |                     |       |
| 01 PB170712BS         | 7901                | 7.77  | 22379               | 10.56  | 10358               | 14.43 |
| 02 PB170712BL         | 8256                | 7.77  | 22952               | 10.57  | 10779               | 14.43 |
| 03 PB170712BSD        | 9081                | 7.77  | 25072               | 10.56  | 10824               | 14.43 |
| 04 RW7-SP100-20251118 | 8461                | 7.77  | 24494               | 10.56  | 11341               | 14.43 |
| 05 RW7-SP201-20251118 | 8294                | 7.77  | 24395               | 10.56  | 11211               | 14.43 |
| 06 RW7-SP302-20251118 | 8272                | 7.77  | 23888               | 10.56  | 10984               | 14.43 |
| 07 RW7-SP303-20251118 | 7804                | 7.77  | 22916               | 10.56  | 10391               | 14.43 |

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: Alliance

Lab Code: ACE

SDG NO.: Q3691

Client ID: SSTDCCC0.4

Date Analyzed: 12/01/2025

Lab File ID: BN038230.D

Time Analyzed: 17:51

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           | 21033               | 17.173 | 11703               | 21.366 | 11756               | 23.674 |
| UPPER LIMIT           | 42066               | 17.673 | 23406               | 21.866 | 23512               | 24.174 |
| LOWER LIMIT           | 10516.5             | 16.673 | 5851.5              | 20.866 | 5878                | 23.174 |
| EPA SAMPLE NO.        |                     |        |                     |        |                     |        |
| 01 PB170712BS         | 14739               | 17.19  | 10142               | 21.37  | 10375               | 23.67  |
| 02 PB170712BL         | 14873               | 17.19  | 10479               | 21.38  | 10853               | 23.68  |
| 03 PB170712BSD        | 16101               | 17.17  | 14003               | 21.37  | 15858               | 23.67  |
| 04 RW7-SP100-20251118 | 17486               | 17.17  | 13270               | 21.37  | 13889               | 23.67  |
| 05 RW7-SP201-20251118 | 17126               | 17.17  | 12662               | 21.37  | 12907               | 23.67  |
| 06 RW7-SP302-20251118 | 15936               | 17.17  | 11565               | 21.37  | 11916               | 23.67  |
| 07 RW7-SP303-20251118 | 15598               | 17.19  | 11057               | 21.37  | 11303               | 23.68  |

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
- 18

## Report of Analysis

|                                              |                          |  |
|----------------------------------------------|--------------------------|--|
| Client: Tetra Tech NUS, Inc.                 | Date Collected: 11/18/25 |  |
| Project: NWIRP Bethpage 112G08005-WE13       | Date Received: 11/20/25  |  |
| Client Sample ID: RW7-SP100-20251118         | SDG No.: Q3691           |  |
| Lab Sample ID: Q3691-01                      | Matrix: Water            |  |
| Analytical Method: SW8270ESIM    Level: LOW  | % Solid: 0               |  |
| Sample Wt/Vol: 1000 mL    Final Vol: 1000 uL | Test: SVOC-SIMGroup1     |  |
| Prep Method : 3510C    Prep Date: 11/21/25   |                          |  |

| CAS Number                | Parameter               | Conc.             | Qua. | DF | MDL      | LOD  | LOQ / CRQL | Units    | Date Ana.      | Prep BatchID |
|---------------------------|-------------------------|-------------------|------|----|----------|------|------------|----------|----------------|--------------|
| <b>TARGETS</b>            |                         |                   |      |    |          |      |            |          |                |              |
| 123-91-1                  | 1,4-Dioxane             | 2.90              |      | 1  | 0.070    | 0.20 | 0.20       | ug/L     | 12/02/25 00:30 | PB170712     |
| <b>SURROGATES</b>         |                         |                   |      |    |          |      |            |          |                |              |
| 7297-45-2                 | 2-Methylnaphthalene-d10 | 0.28              |      |    | 30 - 150 |      | 70%        | SPK: 0.4 |                |              |
| 93951-69-0                | Fluoranthene-d10        | 0.41              |      |    | 30 - 150 |      | 102%       | SPK: 0.4 |                |              |
| 4165-60-0                 | Nitrobenzene-d5         | 0.33              |      |    | 55 - 111 |      | 83%        | SPK: 0.4 |                |              |
| 321-60-8                  | 2-Fluorobiphenyl        | 0.36              |      |    | 53 - 106 |      | 90%        | SPK: 0.4 |                |              |
| 1718-51-0                 | Terphenyl-d14           | 0.42              |      |    | 58 - 132 |      | 105%       | SPK: 0.4 |                |              |
| <b>INTERNAL STANDARDS</b> |                         | <b>Area Count</b> |      |    |          |      |            |          |                |              |
| 3855-82-1                 | 1,4-Dichlorobenzene-d4  | 8460              |      |    |          |      |            |          |                |              |
| 1146-65-2                 | Naphthalene-d8          | 24500             |      |    |          |      |            |          |                |              |
| 15067-26-2                | Acenaphthene-d10        | 11300             |      |    |          |      |            |          |                |              |
| 1517-22-2                 | Phenanthrene-d10        | 17500             |      |    |          |      |            |          |                |              |
| 1719-03-5                 | Chrysene-d12            | 13300             |      |    |          |      |            |          |                |              |
| 1520-96-3                 | Perylene-d12            | 13900             |      |    |          |      |            |          |                |              |

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\BN120125\  
Data File : BN038241.D  
Acq On : 02 Dec 2025 00:30  
Operator : RC/JU  
Sample : Q3691-01  
Misc :  
ALS Vial : 13 Sample Multiplier: 1

Instrument :  
BNA\_N  
ClientSampleId :  
RW7-SP100-20251118

Quant Time: Dec 02 03:24:12 2025  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\8270-SIM-BN112725.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Fri Nov 28 21:04:10 2025  
Response via : Initial Calibration

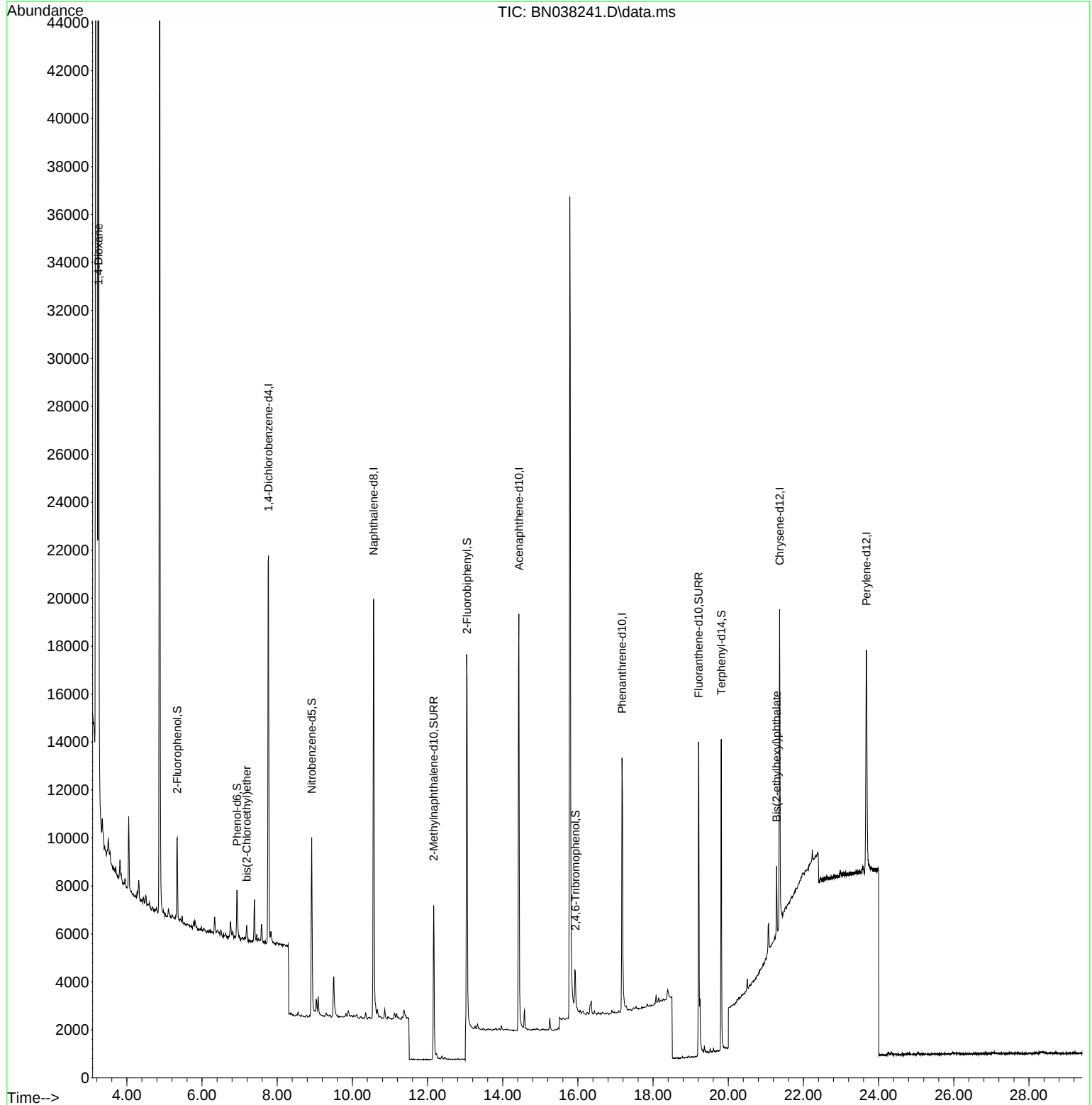
| Compound                      | R.T.   | QIon | Response | Conc  | Units | Dev(Min) |
|-------------------------------|--------|------|----------|-------|-------|----------|
| Internal Standards            |        |      |          |       |       |          |
| 1) 1,4-Dichlorobenzene-d4     | 7.768  | 152  | 8461     | 0.400 | ng    | 0.00     |
| 7) Naphthalene-d8             | 10.562 | 136  | 24494    | 0.400 | ng    | #-0.01   |
| 13) Acenaphthene-d10          | 14.430 | 164  | 11341    | 0.400 | ng    | 0.00     |
| 19) Phenanthrene-d10          | 17.173 | 188  | 17486    | 0.400 | ng    | #-0.01   |
| 29) Chrysene-d12              | 21.366 | 240  | 13270    | 0.400 | ng    | 0.00     |
| 35) Perylene-d12              | 23.674 | 264  | 13889    | 0.400 | ng    | 0.00     |
| System Monitoring Compounds   |        |      |          |       |       |          |
| 4) 2-Fluorophenol             | 5.341  | 112  | 2908     | 0.147 | ng    | 0.00     |
| 5) Phenol-d6                  | 6.930  | 99   | 1935     | 0.078 | ng    | 0.00     |
| 8) Nitrobenzene-d5            | 8.918  | 82   | 6470     | 0.330 | ng    | 0.00     |
| 11) 2-Methylnaphthalene-d10   | 12.162 | 152  | 9730     | 0.280 | ng    | 0.00     |
| 14) 2,4,6-Tribromophenol      | 15.932 | 330  | 1195     | 0.335 | ng    | 0.00     |
| 15) 2-Fluorobiphenyl          | 13.051 | 172  | 15875    | 0.362 | ng    | 0.00     |
| 27) Fluoranthene-d10          | 19.211 | 212  | 15420    | 0.407 | ng    | 0.00     |
| 31) Terphenyl-d14             | 19.815 | 244  | 12920    | 0.422 | ng    | 0.00     |
| Target Compounds              |        |      |          |       |       |          |
| 2) 1,4-Dioxane                | 3.247  | 88   | 25773    | 2.892 | ng    | # 96     |
| 6) bis(2-Chloroethyl)ether    | 7.190  | 93   | 503      | 0.021 | ng    | 86       |
| 34) Bis(2-ethylhexyl)phtha... | 21.286 | 149  | 2690     | 0.109 | ng    | 98       |

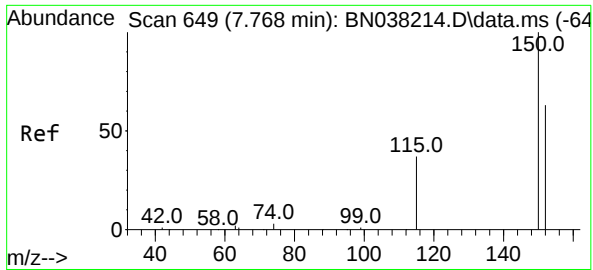
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN120125\  
Data File : BN038241.D  
Acq On : 02 Dec 2025 00:30  
Operator : RC/JU  
Sample : Q3691-01  
Misc :  
ALS Vial : 13 Sample Multiplier: 1

Instrument :  
BNA\_N  
ClientSampleId :  
RW7-SP100-20251118

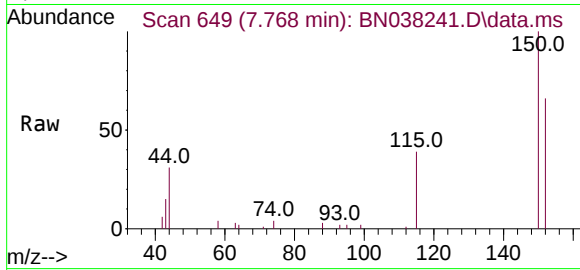
Quant Time: Dec 02 03:24:12 2025  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\8270-SIM-BN112725.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Fri Nov 28 21:04:10 2025  
Response via : Initial Calibration



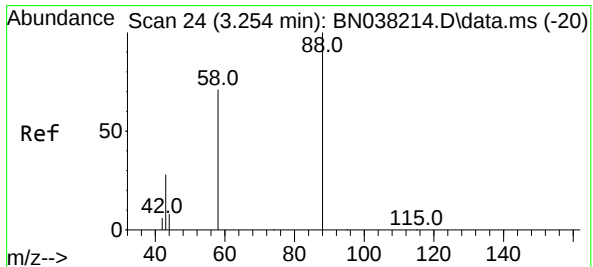
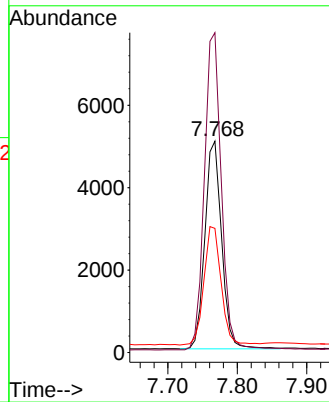
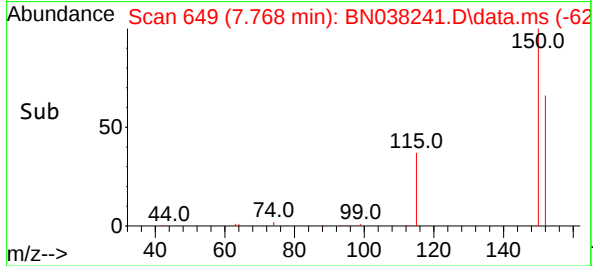


#1  
1,4-Dichlorobenzene-d4  
Concen: 0.400 ng  
RT: 7.768 min Scan# 64  
Delta R.T. -0.000 min  
Lab File: BN038241.D  
Acq: 02 Dec 2025 00:30

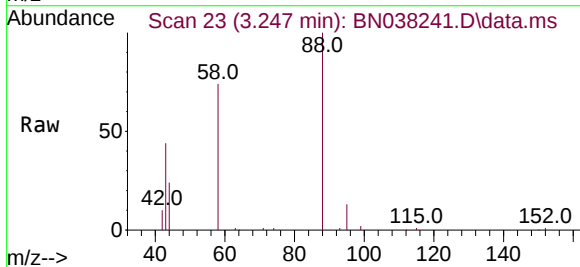
Instrument :  
BNA\_N  
ClientSampleId :  
RW7-SP100-20251118



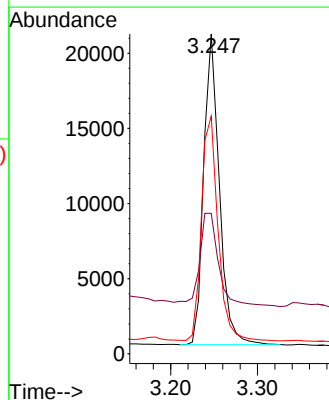
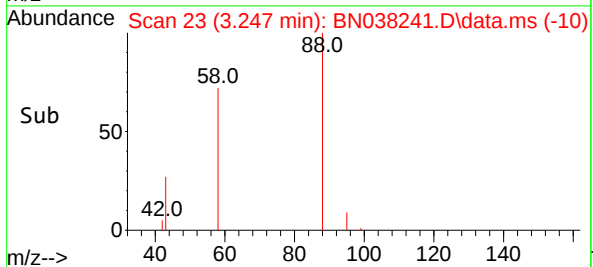
Tgt Ion:152 Resp: 8461  
Ion Ratio Lower Upper  
152 100  
150 151.4 125.3 187.9  
115 58.8 49.0 73.4

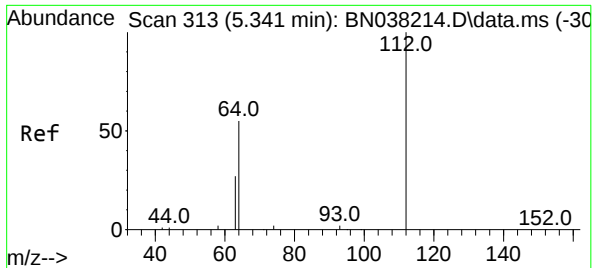


#2  
1,4-Dioxane  
Concen: 2.892 ng  
RT: 3.247 min Scan# 23  
Delta R.T. -0.007 min  
Lab File: BN038241.D  
Acq: 02 Dec 2025 00:30



Tgt Ion: 88 Resp: 25773  
Ion Ratio Lower Upper  
88 100  
43 37.5 24.8 37.2#  
58 76.7 61.1 91.7

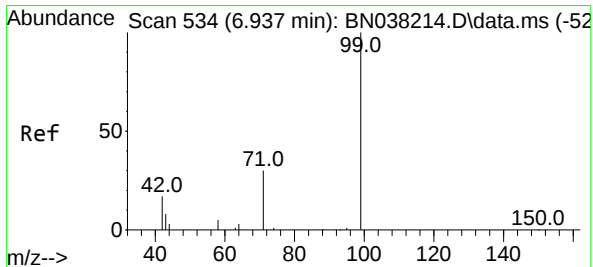
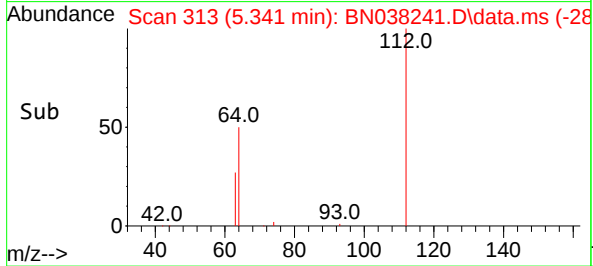
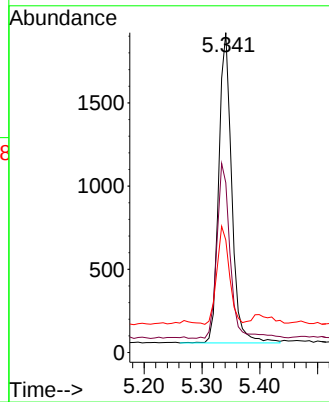
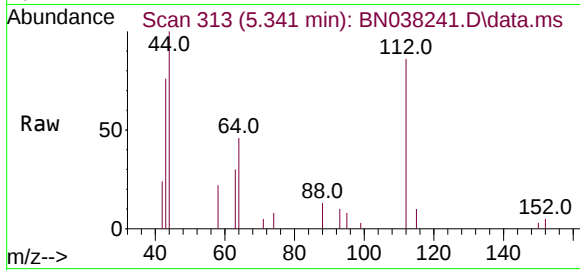




#4  
2-Fluorophenol  
Concen: 0.147 ng  
RT: 5.341 min Scan# 313  
Delta R.T. 0.000 min  
Lab File: BN038241.D  
Acq: 02 Dec 2025 00:30

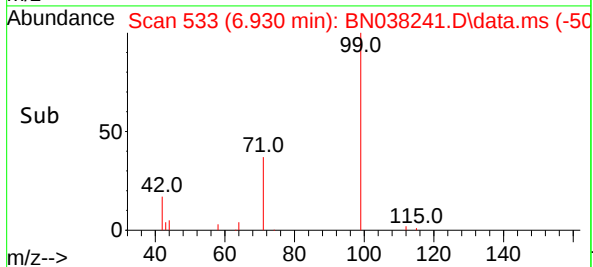
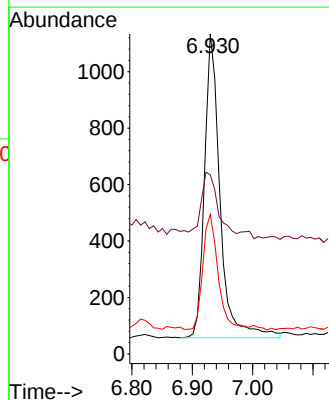
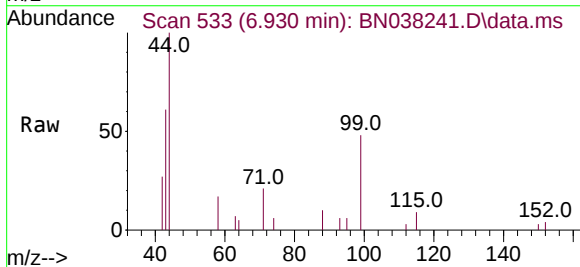
Instrument :  
BNA\_N  
ClientSampleId :  
RW7-SP100-20251118

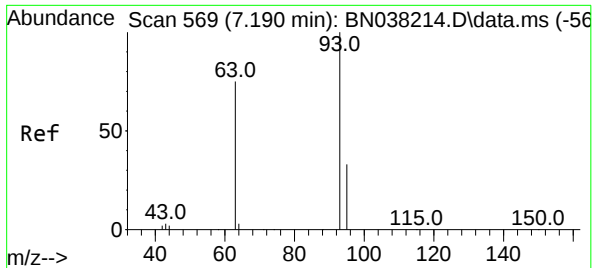
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 112   | Resp: | 2908  |
| Ion      | Ratio | Lower | Upper |
| 112      | 100   |       |       |
| 64       | 57.7  | 45.0  | 67.4  |
| 63       | 30.2  | 23.2  | 34.8  |



#5  
Phenol-d6  
Concen: 0.078 ng  
RT: 6.930 min Scan# 533  
Delta R.T. -0.007 min  
Lab File: BN038241.D  
Acq: 02 Dec 2025 00:30

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 99    | Resp: | 1935  |
| Ion      | Ratio | Lower | Upper |
| 99       | 100   |       |       |
| 42       | 19.8  | 17.0  | 25.6  |
| 71       | 36.6  | 25.4  | 38.2  |

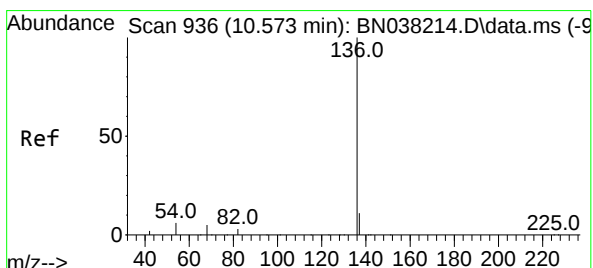
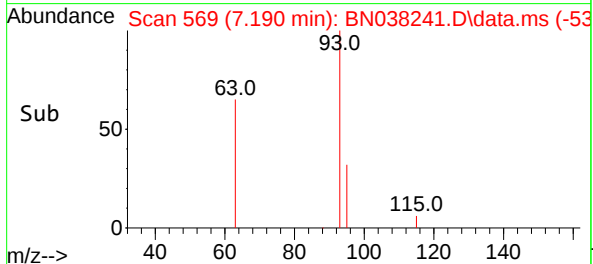
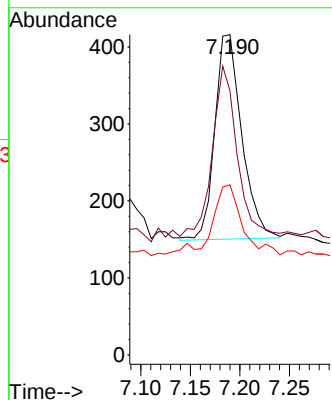
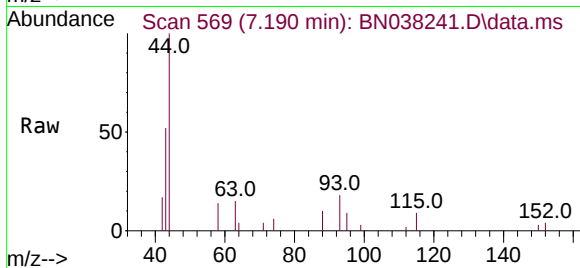




#6  
bis(2-Chloroethyl)ether  
Concen: 0.021 ng  
RT: 7.190 min Scan# 569  
Delta R.T. 0.000 min  
Lab File: BN038241.D  
Acq: 02 Dec 2025 00:30

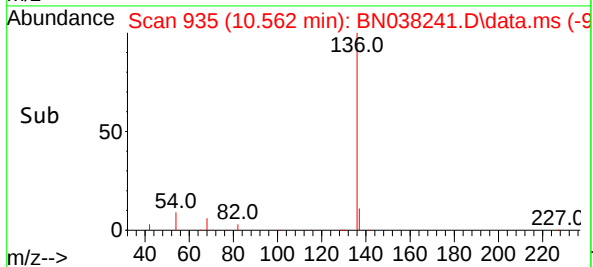
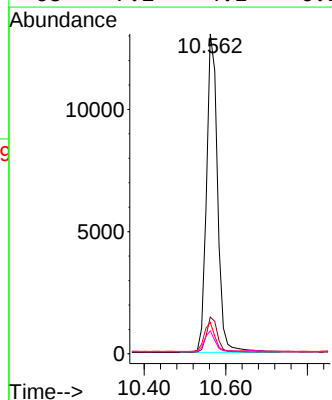
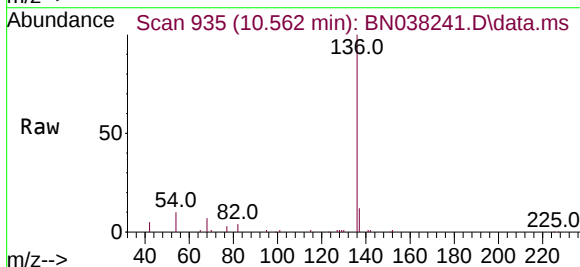
Instrument :  
BNA\_N  
ClientSampleId :  
RW7-SP100-20251118

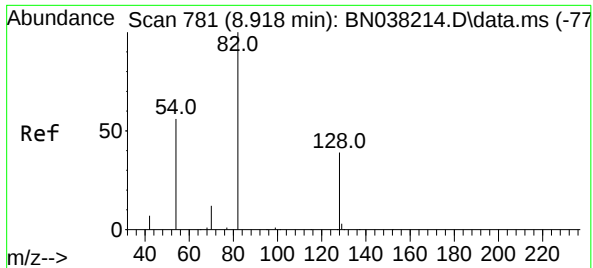
Tgt Ion: 93 Resp: 503  
Ion Ratio Lower Upper  
93 100  
63 85.7 58.1 87.1  
95 37.2 25.1 37.7



#7  
Naphthalene-d8  
Concen: 0.400 ng  
RT: 10.562 min Scan# 935  
Delta R.T. -0.011 min  
Lab File: BN038241.D  
Acq: 02 Dec 2025 00:30

Tgt Ion: 136 Resp: 24494  
Ion Ratio Lower Upper  
136 100  
137 11.5 8.9 13.3  
54 9.9 5.4 8.0#  
68 7.2 4.1 6.1#

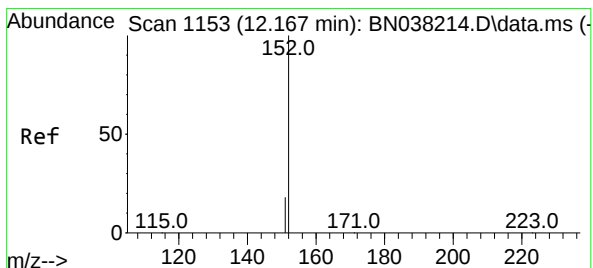
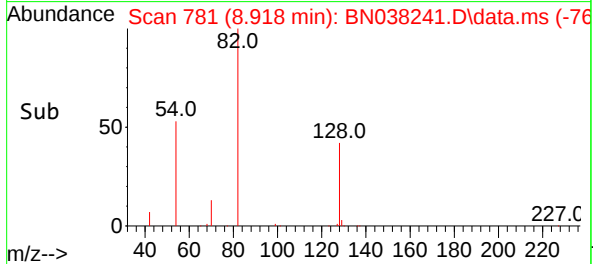
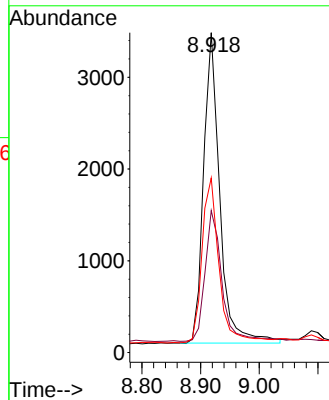
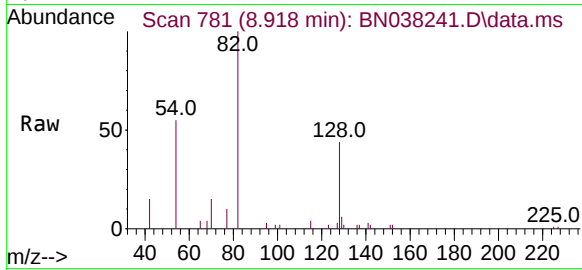




#8  
Nitrobenzene-d5  
Concen: 0.330 ng  
RT: 8.918 min Scan# 781  
Delta R.T. 0.000 min  
Lab File: BN038241.D  
Acq: 02 Dec 2025 00:30

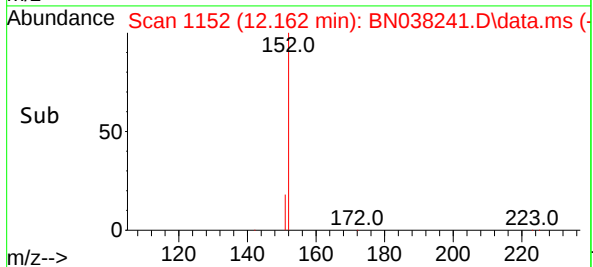
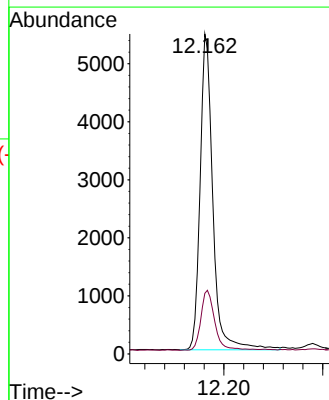
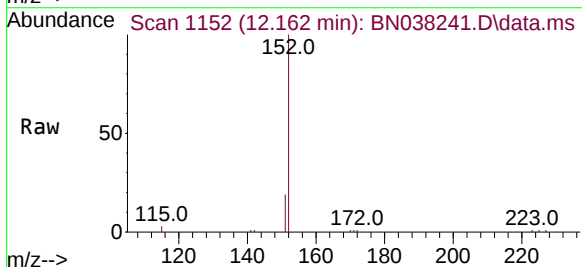
Instrument :  
BNA\_N  
ClientSampleId :  
RW7-SP100-20251118

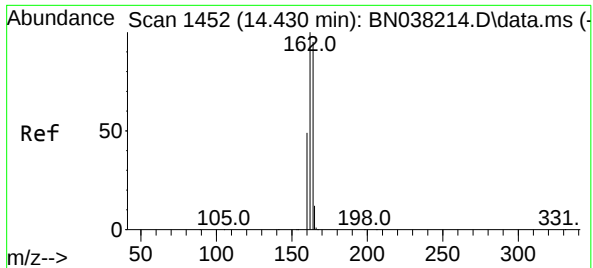
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 82    | Resp: | 6470  |
| Ion      | Ratio | Lower | Upper |
| 82       | 100   |       |       |
| 128      | 44.4  | 32.6  | 48.8  |
| 54       | 54.6  | 45.4  | 68.0  |



#11  
2-Methylnaphthalene-d10  
Concen: 0.280 ng  
RT: 12.162 min Scan# 1152  
Delta R.T. -0.005 min  
Lab File: BN038241.D  
Acq: 02 Dec 2025 00:30

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 152   | Resp: | 9730  |
| Ion      | Ratio | Lower | Upper |
| 152      | 100   |       |       |
| 151      | 20.8  | 16.7  | 25.1  |

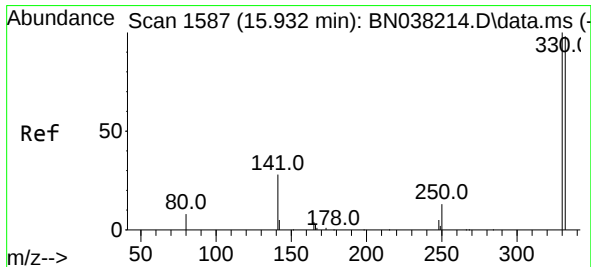
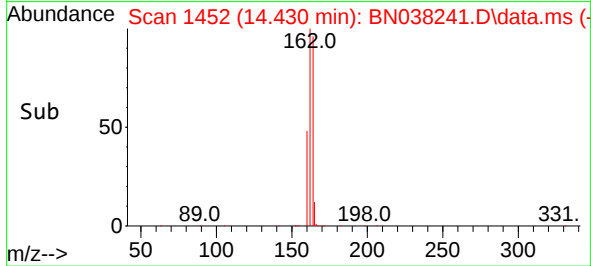
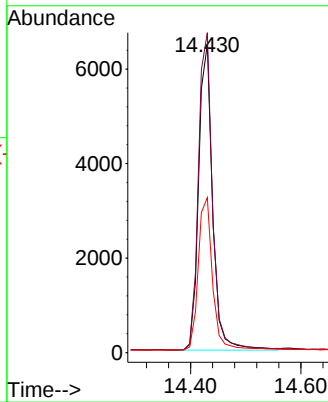
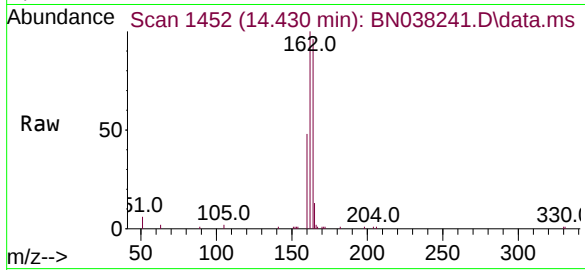




#13  
Acenaphthene-d10  
Concen: 0.400 ng  
RT: 14.430 min Scan# 1452  
Delta R.T. 0.000 min  
Lab File: BN038241.D  
Acq: 02 Dec 2025 00:30

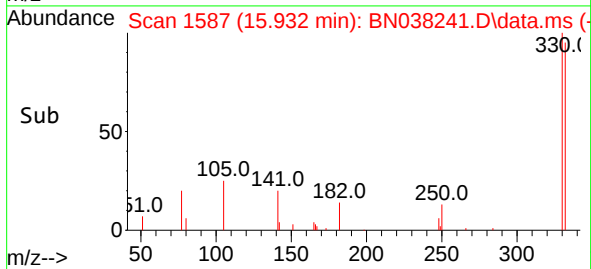
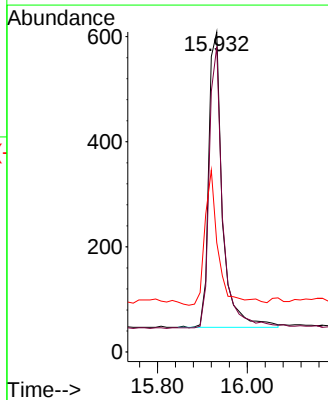
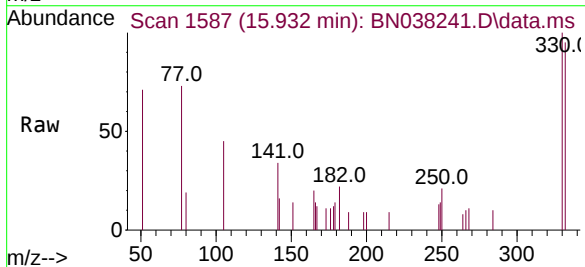
Instrument :  
BNA\_N  
ClientSampleId :  
RW7-SP100-20251118

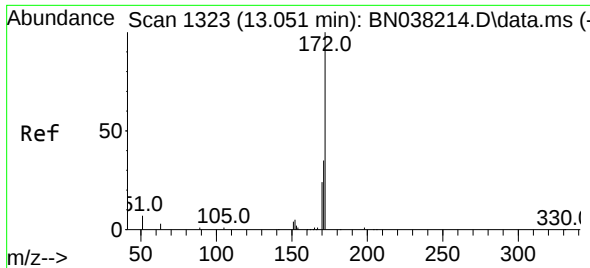
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 164     | 100   |       |       |
| 162     | 103.8 | 83.8  | 125.8 |
| 160     | 50.2  | 41.6  | 62.4  |



#14  
2,4,6-Tribromophenol  
Concen: 0.335 ng  
RT: 15.932 min Scan# 1587  
Delta R.T. 0.000 min  
Lab File: BN038241.D  
Acq: 02 Dec 2025 00:30

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 330     | 100   |       |       |
| 332     | 93.6  | 77.8  | 116.6 |
| 141     | 45.0  | 33.0  | 49.4  |

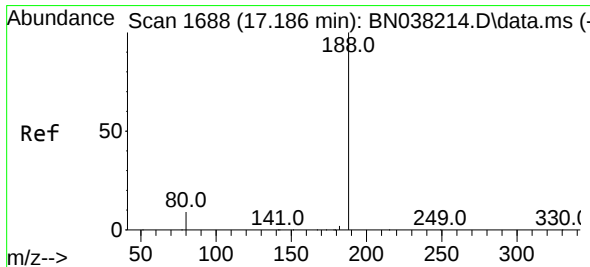
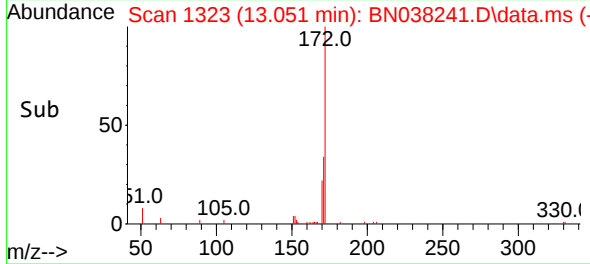
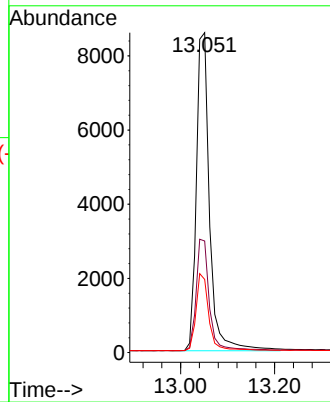
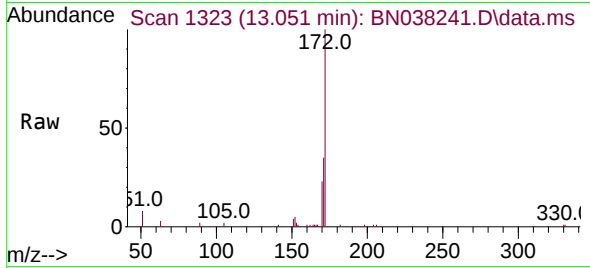




#15  
2-Fluorobiphenyl  
Concen: 0.362 ng  
RT: 13.051 min Scan# 1323  
Delta R.T. 0.000 min  
Lab File: BN038241.D  
Acq: 02 Dec 2025 00:30

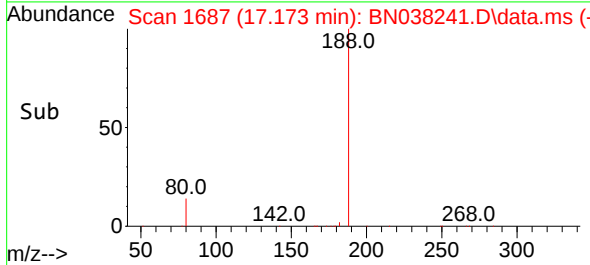
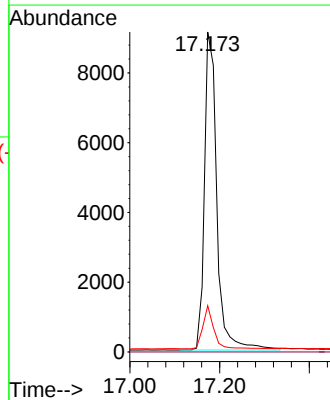
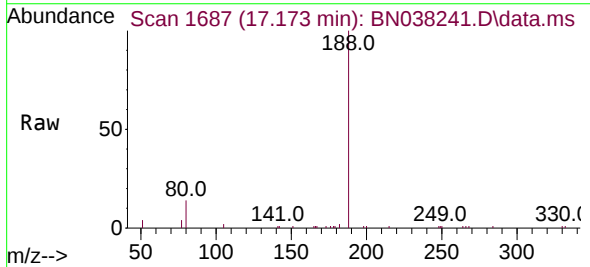
Instrument :  
BNA\_N  
ClientSampleId :  
RW7-SP100-20251118

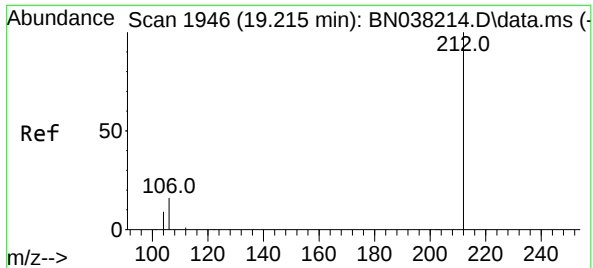
|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 172   | Resp: | 15875 |
| Ion Ratio | Lower | Upper |       |
| 172       | 100   |       |       |
| 171       | 34.9  | 28.1  | 42.1  |
| 170       | 22.9  | 19.1  | 28.7  |



#19  
Phenanthrene-d10  
Concen: 0.400 ng  
RT: 17.173 min Scan# 1687  
Delta R.T. -0.012 min  
Lab File: BN038241.D  
Acq: 02 Dec 2025 00:30

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 188   | Resp: | 17486 |
| Ion Ratio | Lower | Upper |       |
| 188       | 100   |       |       |
| 94        | 0.0   | 0.0   | 0.0   |
| 80        | 14.4  | 7.7   | 11.5  |





#27

Fluoranthene-d10

Concen: 0.407 ng

RT: 19.211 min Scan# 1945

Delta R.T. -0.005 min

Lab File: BN038241.D

Acq: 02 Dec 2025 00:30

Instrument :

BNA\_N

ClientSampleId :

RW7-SP100-20251118

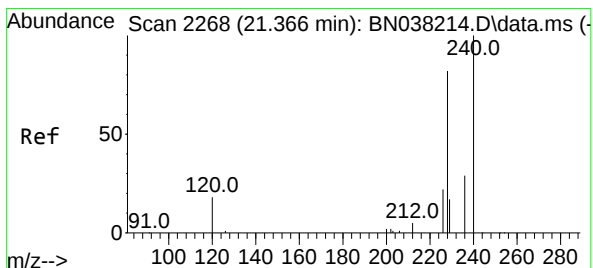
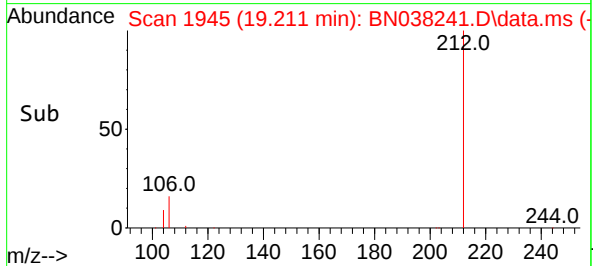
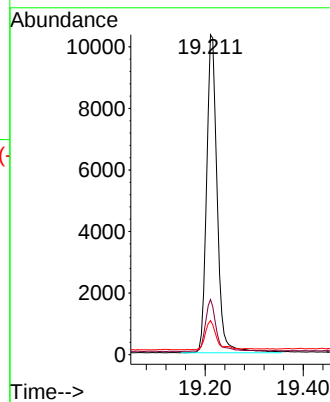
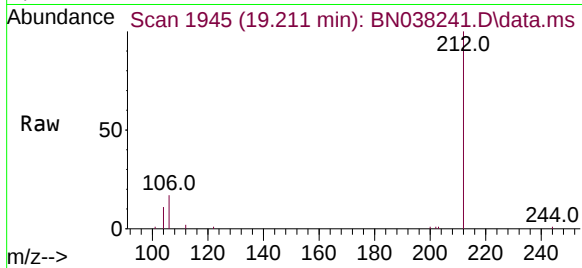
Tgt Ion:212 Resp: 15420

Ion Ratio Lower Upper

212 100

106 16.7 12.7 19.1

104 8.9 7.3 10.9



#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.366 min Scan# 2268

Delta R.T. 0.000 min

Lab File: BN038241.D

Acq: 02 Dec 2025 00:30

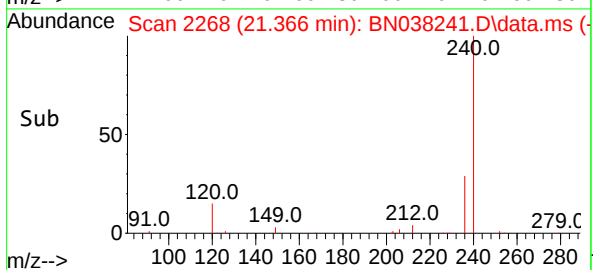
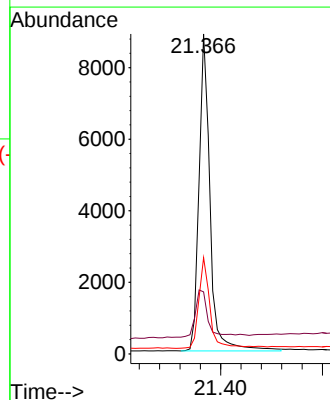
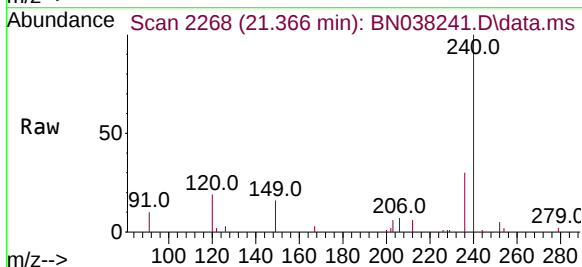
Tgt Ion:240 Resp: 13270

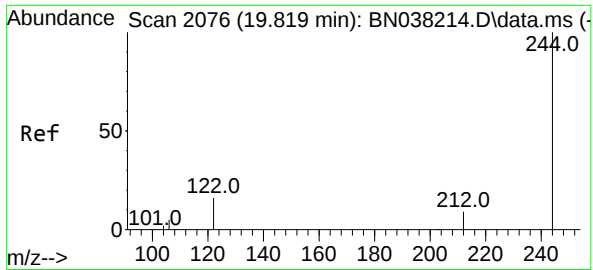
Ion Ratio Lower Upper

240 100

120 19.4 18.1 27.1

236 30.1 24.2 36.4

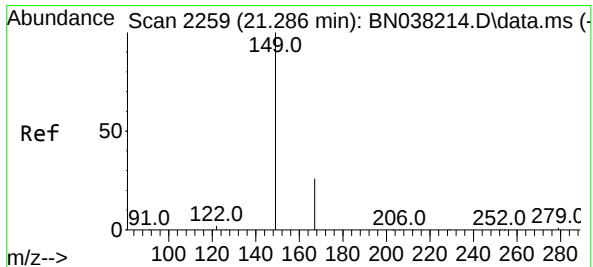
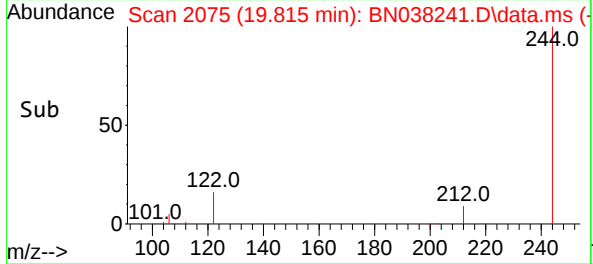
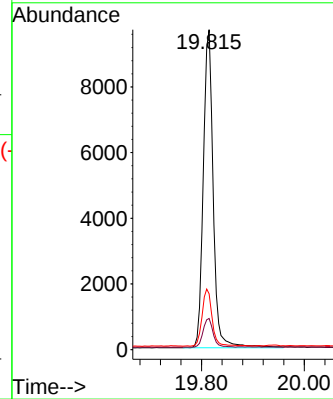
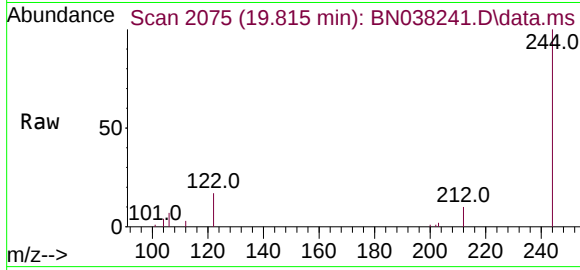




#31  
Terphenyl-d14  
Concen: 0.422 ng  
RT: 19.815 min Scan# 2075  
Delta R.T. -0.005 min  
Lab File: BN038241.D  
Acq: 02 Dec 2025 00:30

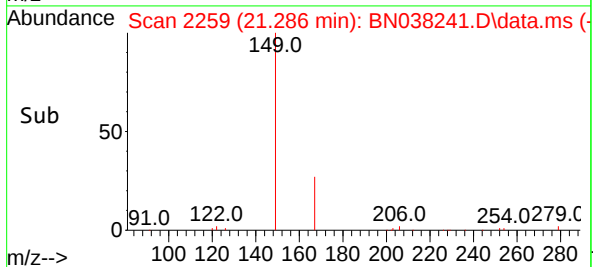
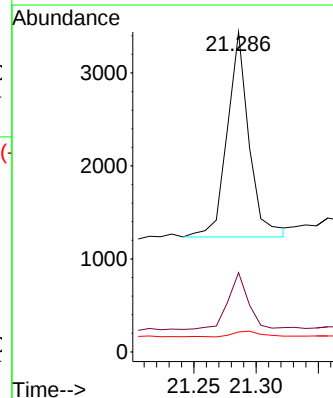
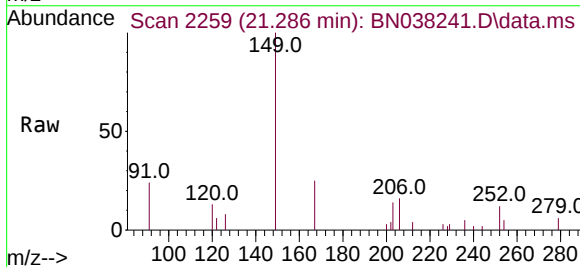
Instrument :  
BNA\_N  
ClientSampleId :  
RW7-SP100-20251118

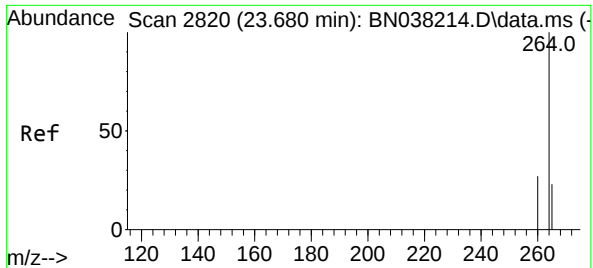
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 244     | 100   |       |       |
| 212     | 9.7   | 7.7   | 11.5  |
| 122     | 17.4  | 13.6  | 20.4  |



#34  
Bis(2-ethylhexyl)phthalate  
Concen: 0.109 ng  
RT: 21.286 min Scan# 2259  
Delta R.T. 0.000 min  
Lab File: BN038241.D  
Acq: 02 Dec 2025 00:30

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 149     | 100   |       |       |
| 167     | 26.7  | 20.7  | 31.1  |
| 279     | 3.7   | 2.5   | 3.7   |





#35

Perylene-d12

Concen: 0.400 ng

RT: 23.674 min Scan# 28

Delta R.T. -0.006 min

Lab File: BN038241.D

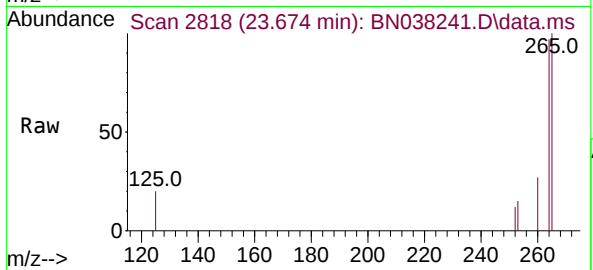
Acq: 02 Dec 2025 00:30

Instrument :

BNA\_N

ClientSampleId :

RW7-SP100-20251118



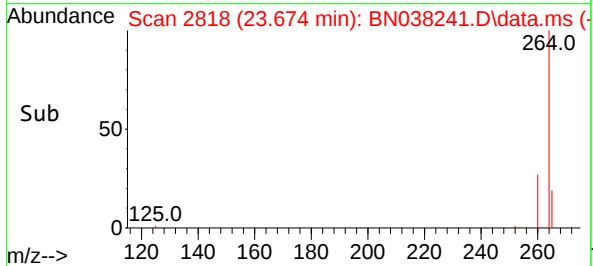
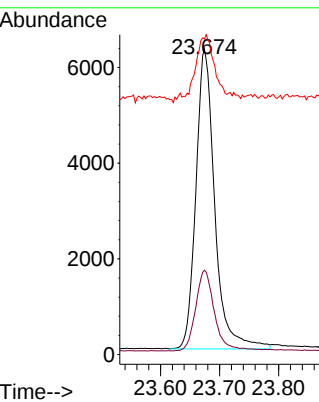
Tgt Ion:264 Resp: 13889

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

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

|     |      |      |      |
|-----|------|------|------|
| 260 | 27.6 | 21.7 | 32.5 |
|-----|------|------|------|

|     |       |      |       |
|-----|-------|------|-------|
| 265 | 103.2 | 98.0 | 147.0 |
|-----|-------|------|-------|



## Report of Analysis

|                                             |                          |  |
|---------------------------------------------|--------------------------|--|
| Client: Tetra Tech NUS, Inc.                | Date Collected: 11/18/25 |  |
| Project: NWIRP Bethpage 112G08005-WE13      | Date Received: 11/20/25  |  |
| Client Sample ID: RW7-SP201-20251118        | SDG No.: Q3691           |  |
| Lab Sample ID: Q3691-02                     | Matrix: Water            |  |
| Analytical Method: SW8270ESIM    Level: LOW | % Solid: 0               |  |
| Sample Wt/Vol: 960 mL    Final Vol: 1000 uL | Test: SVOC-SIMGroup1     |  |
| Prep Method : 3510C    Prep Date: 11/21/25  |                          |  |

| CAS Number                | Parameter               | Conc.             | Qua. | DF | MDL      | LOD  | LOQ / CRQL | Units    | Date Ana.      | Prep BatchID |
|---------------------------|-------------------------|-------------------|------|----|----------|------|------------|----------|----------------|--------------|
| <b>TARGETS</b>            |                         |                   |      |    |          |      |            |          |                |              |
| 123-91-1                  | 1,4-Dioxane             | 0.21              | U    | 1  | 0.070    | 0.21 | 0.21       | ug/L     | 12/02/25 01:07 | PB170712     |
| <b>SURROGATES</b>         |                         |                   |      |    |          |      |            |          |                |              |
| 7297-45-2                 | 2-Methylnaphthalene-d10 | 0.33              |      |    | 30 - 150 |      | 81%        | SPK: 0.4 |                |              |
| 93951-69-0                | Fluoranthene-d10        | 0.45              |      |    | 30 - 150 |      | 113%       | SPK: 0.4 |                |              |
| 4165-60-0                 | Nitrobenzene-d5         | 0.39              |      |    | 55 - 111 |      | 97%        | SPK: 0.4 |                |              |
| 321-60-8                  | 2-Fluorobiphenyl        | 0.40              |      |    | 53 - 106 |      | 100%       | SPK: 0.4 |                |              |
| 1718-51-0                 | Terphenyl-d14           | 0.50              |      |    | 58 - 132 |      | 124%       | SPK: 0.4 |                |              |
| <b>INTERNAL STANDARDS</b> |                         | <b>Area Count</b> |      |    |          |      |            |          |                |              |
| 3855-82-1                 | 1,4-Dichlorobenzene-d4  | 8290              |      |    |          |      |            |          |                |              |
| 1146-65-2                 | Naphthalene-d8          | 24400             |      |    |          |      |            |          |                |              |
| 15067-26-2                | Acenaphthene-d10        | 11200             |      |    |          |      |            |          |                |              |
| 1517-22-2                 | Phenanthrene-d10        | 17100             |      |    |          |      |            |          |                |              |
| 1719-03-5                 | Chrysene-d12            | 12700             |      |    |          |      |            |          |                |              |
| 1520-96-3                 | Perylene-d12            | 12900             |      |    |          |      |            |          |                |              |

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\BN120125\  
Data File : BN038242.D  
Acq On : 02 Dec 2025 01:07  
Operator : RC/JU  
Sample : Q3691-02  
Misc :  
ALS Vial : 14 Sample Multiplier: 1

Instrument :  
BNA\_N  
ClientSampleId :  
RW7-SP201-20251118

Quant Time: Dec 02 03:24:31 2025  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\8270-SIM-BN112725.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Fri Nov 28 21:04:10 2025  
Response via : Initial Calibration

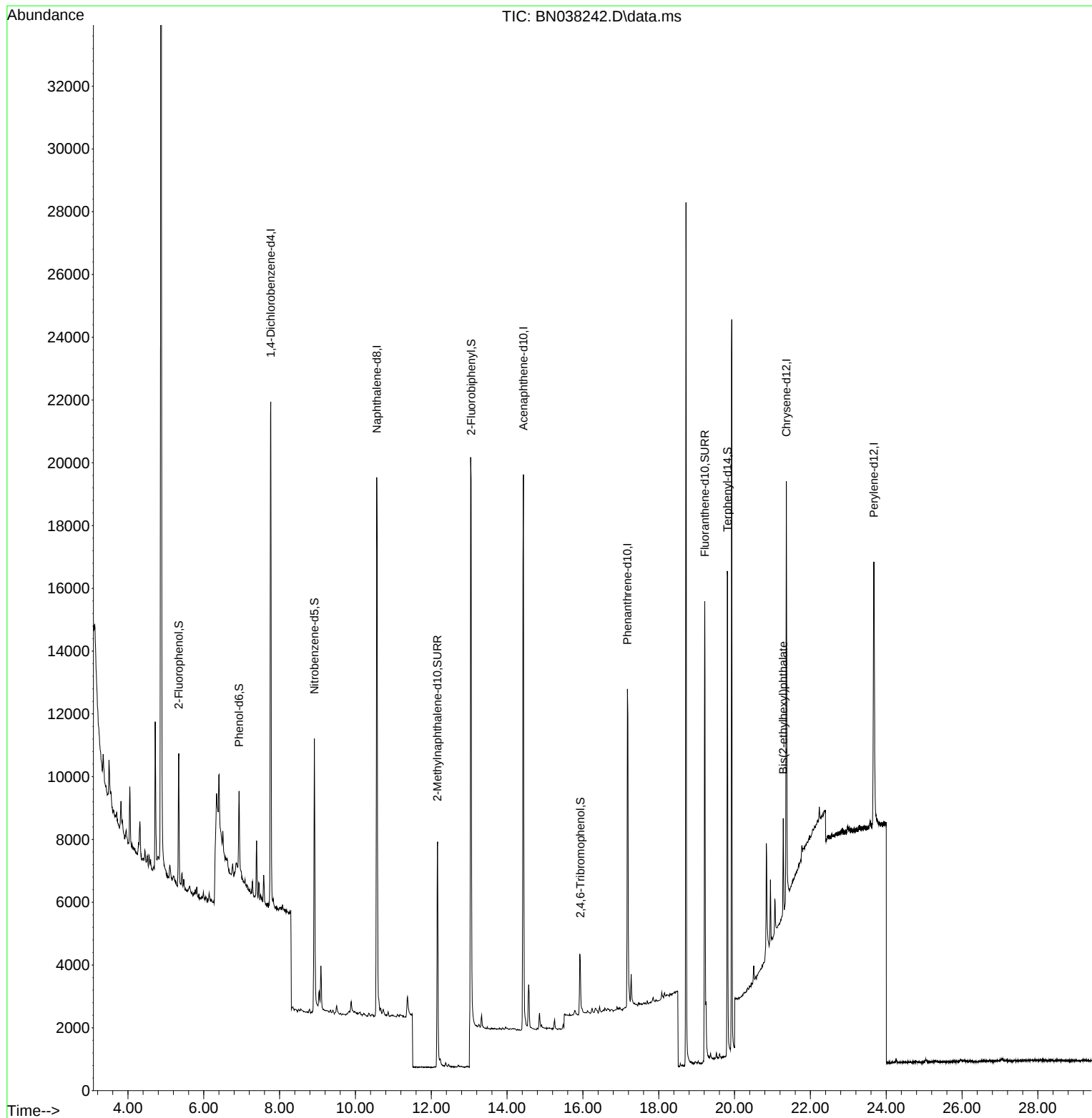
| Compound                      | R.T.   | QIon | Response | Conc  | Units | Dev(Min)   |
|-------------------------------|--------|------|----------|-------|-------|------------|
| Internal Standards            |        |      |          |       |       |            |
| 1) 1,4-Dichlorobenzene-d4     | 7.768  | 152  | 8294     | 0.400 | ng    | 0.00       |
| 7) Naphthalene-d8             | 10.562 | 136  | 24395    | 0.400 | ng    | #-0.01     |
| 13) Acenaphthene-d10          | 14.430 | 164  | 11211    | 0.400 | ng    | 0.00       |
| 19) Phenanthrene-d10          | 17.173 | 188  | 17126    | 0.400 | ng    | #-0.01     |
| 29) Chrysene-d12              | 21.366 | 240  | 12662    | 0.400 | ng    | 0.00       |
| 35) Perylene-d12              | 23.674 | 264  | 12907    | 0.400 | ng    | 0.00       |
| System Monitoring Compounds   |        |      |          |       |       |            |
| 4) 2-Fluorophenol             | 5.341  | 112  | 3475     | 0.179 | ng    | 0.00       |
| 5) Phenol-d6                  | 6.930  | 99   | 2551     | 0.105 | ng    | 0.00       |
| 8) Nitrobenzene-d5            | 8.918  | 82   | 7552     | 0.387 | ng    | 0.00       |
| 11) 2-Methylnaphthalene-d10   | 12.162 | 152  | 11266    | 0.325 | ng    | 0.00       |
| 14) 2,4,6-Tribromophenol      | 15.932 | 330  | 1396     | 0.396 | ng    | 0.00       |
| 15) 2-Fluorobiphenyl          | 13.051 | 172  | 17264    | 0.399 | ng    | 0.00       |
| 27) Fluoranthene-d10          | 19.215 | 212  | 16850    | 0.454 | ng    | 0.00       |
| 31) Terphenyl-d14             | 19.815 | 244  | 14528    | 0.497 | ng    | 0.00       |
| Target Compounds              |        |      |          |       |       |            |
| 34) Bis(2-ethylhexyl)phtha... | 21.286 | 149  | 2877     | 0.123 | ng    | Qvalue 100 |

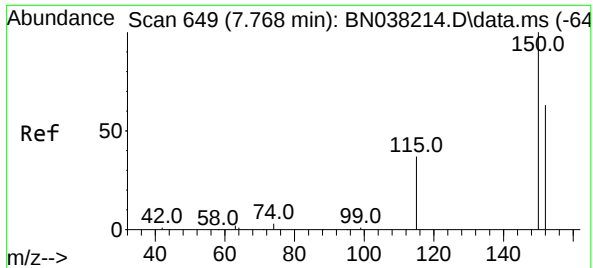
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN120125\  
Data File : BN038242.D  
Acq On : 02 Dec 2025 01:07  
Operator : RC/JU  
Sample : Q3691-02  
Misc :  
ALS Vial : 14 Sample Multiplier: 1

Instrument :  
BNA\_N  
ClientSampleId :  
RW7-SP201-20251118

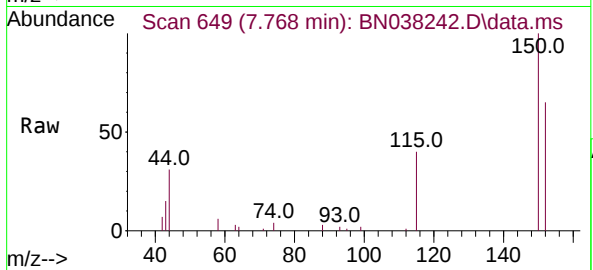
Quant Time: Dec 02 03:24:31 2025  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\8270-SIM-BN112725.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Fri Nov 28 21:04:10 2025  
Response via : Initial Calibration



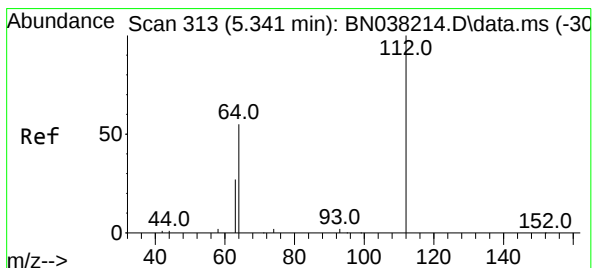
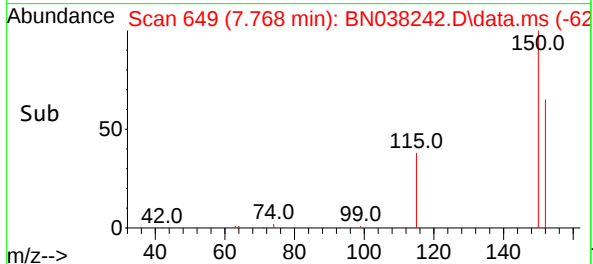
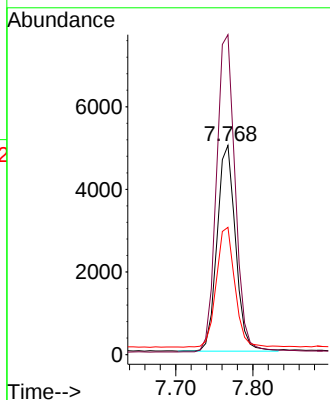


#1  
1,4-Dichlorobenzene-d4  
Concen: 0.400 ng  
RT: 7.768 min Scan# 649  
Delta R.T. -0.000 min  
Lab File: BN038242.D  
Acq: 02 Dec 2025 01:07

Instrument :  
BNA\_N  
ClientSampleId :  
RW7-SP201-20251118

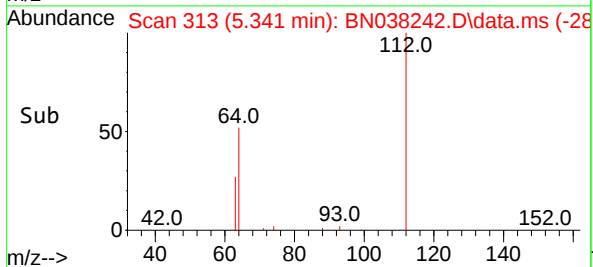
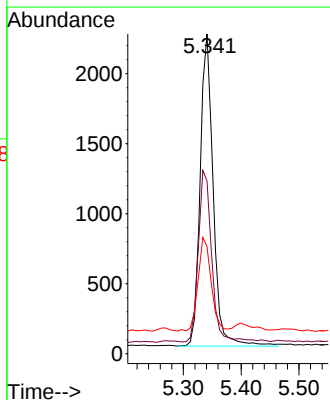
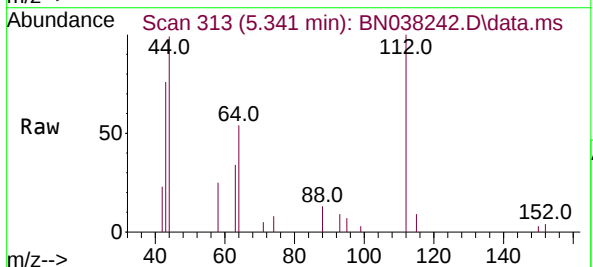


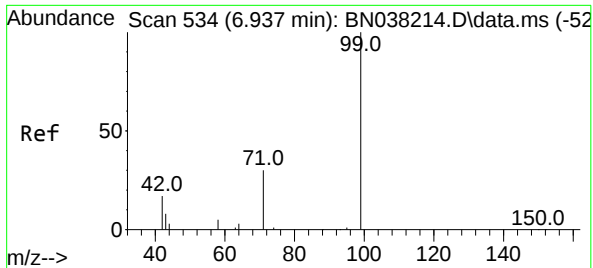
Tgt Ion:152 Resp: 8294  
Ion Ratio Lower Upper  
152 100  
150 153.0 125.3 187.9  
115 60.9 49.0 73.4



#4  
2-Fluorophenol  
Concen: 0.179 ng  
RT: 5.341 min Scan# 313  
Delta R.T. 0.000 min  
Lab File: BN038242.D  
Acq: 02 Dec 2025 01:07

Tgt Ion:112 Resp: 3475  
Ion Ratio Lower Upper  
112 100  
64 56.7 45.0 67.4  
63 29.8 23.2 34.8

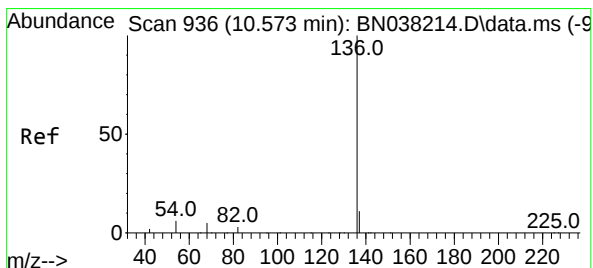
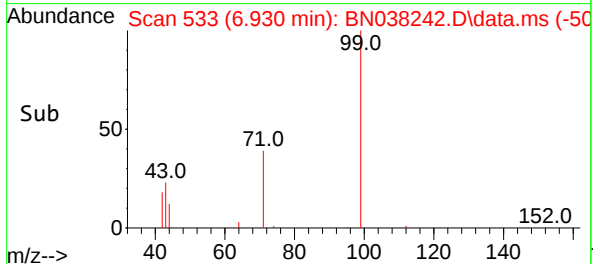
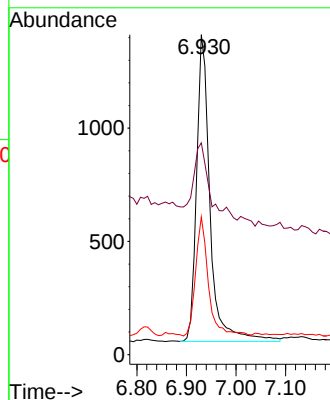
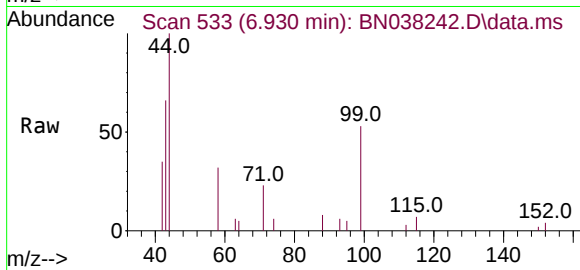




#5  
Phenol-d6  
Concen: 0.105 ng  
RT: 6.930 min Scan# 531  
Delta R.T. -0.007 min  
Lab File: BN038242.D  
Acq: 02 Dec 2025 01:07

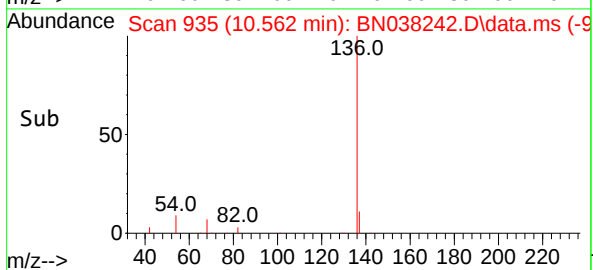
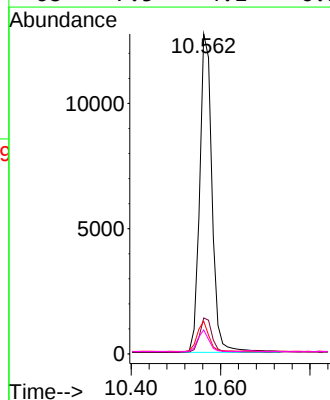
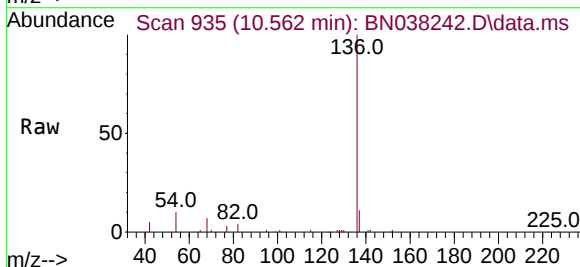
Instrument :  
BNA\_N  
ClientSampleId :  
RW7-SP201-20251118

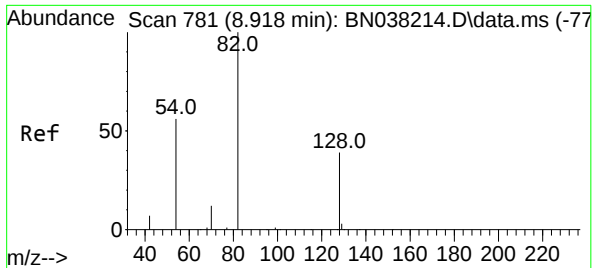
| Tgt Ion:  | 99    | Resp: | 2551  |
|-----------|-------|-------|-------|
| Ion Ratio | Lower | Upper |       |
| 99        | 100   |       |       |
| 42        | 29.7  | 17.0  | 25.6# |
| 71        | 37.0  | 25.4  | 38.2  |



#7  
Naphthalene-d8  
Concen: 0.400 ng  
RT: 10.562 min Scan# 935  
Delta R.T. -0.011 min  
Lab File: BN038242.D  
Acq: 02 Dec 2025 01:07

| Tgt Ion:  | 136   | Resp: | 24395 |
|-----------|-------|-------|-------|
| Ion Ratio | Lower | Upper |       |
| 136       | 100   |       |       |
| 137       | 11.2  | 8.9   | 13.3  |
| 54        | 10.2  | 5.4   | 8.0#  |
| 68        | 7.5   | 4.1   | 6.1#  |

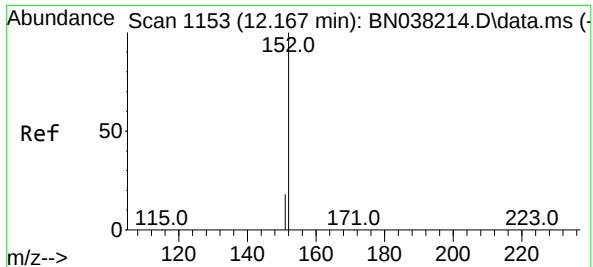
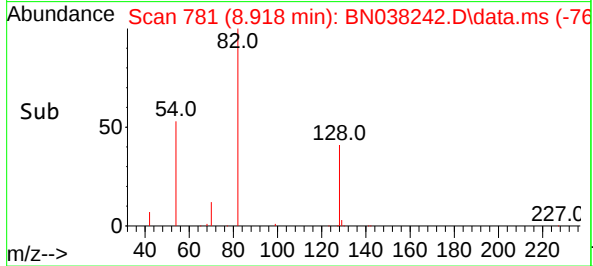
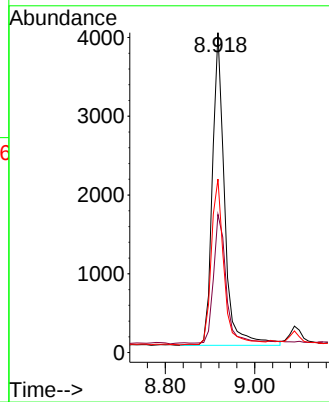
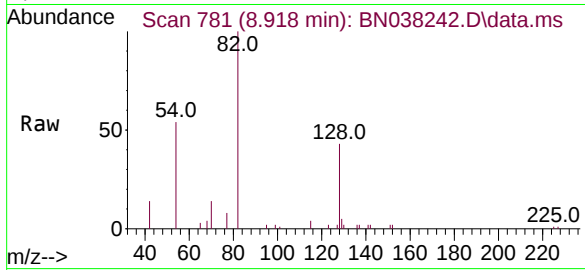




#8  
Nitrobenzene-d5  
Concen: 0.387 ng  
RT: 8.918 min Scan# 781  
Delta R.T. 0.000 min  
Lab File: BN038242.D  
Acq: 02 Dec 2025 01:07

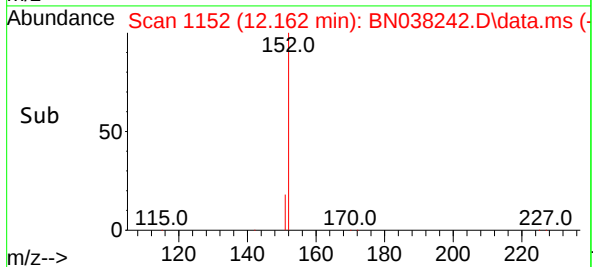
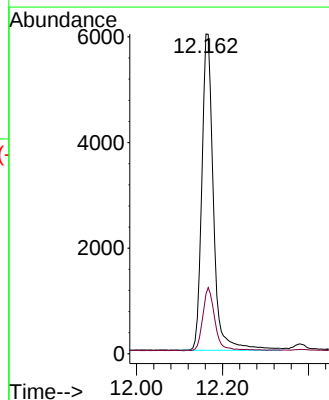
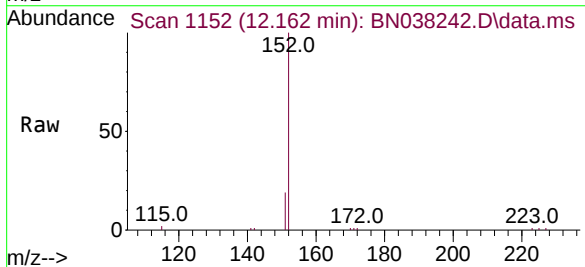
Instrument :  
BNA\_N  
ClientSampleId :  
RW7-SP201-20251118

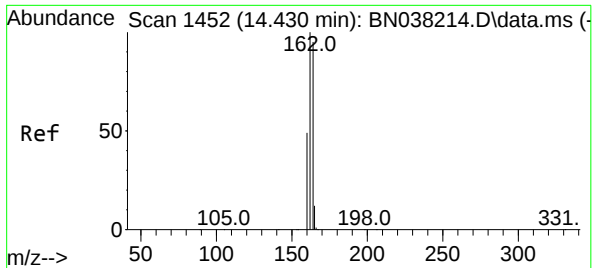
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 82    | Resp: | 7552  |
| Ion      | Ratio | Lower | Upper |
| 82       | 100   |       |       |
| 128      | 43.2  | 32.6  | 48.8  |
| 54       | 54.2  | 45.4  | 68.0  |



#11  
2-Methylnaphthalene-d10  
Concen: 0.325 ng  
RT: 12.162 min Scan# 1152  
Delta R.T. -0.005 min  
Lab File: BN038242.D  
Acq: 02 Dec 2025 01:07

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 152   | Resp: | 11266 |
| Ion      | Ratio | Lower | Upper |
| 152      | 100   |       |       |
| 151      | 20.6  | 16.7  | 25.1  |

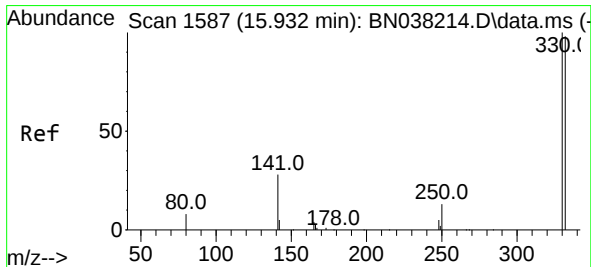
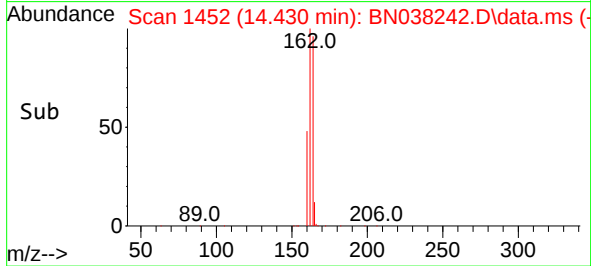
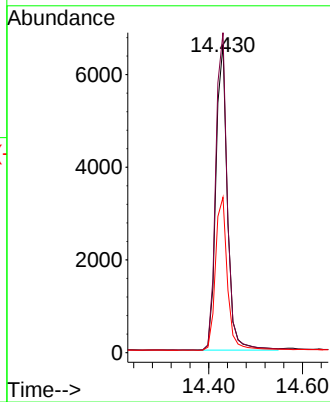
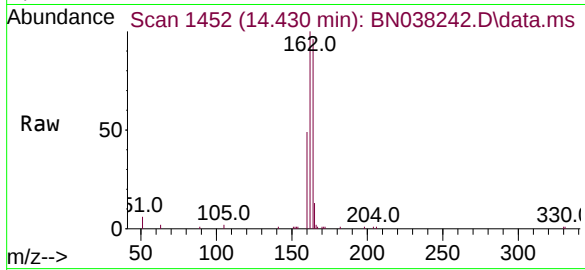




#13  
Acenaphthene-d10  
Concen: 0.400 ng  
RT: 14.430 min Scan# 1452  
Delta R.T. 0.000 min  
Lab File: BN038242.D  
Acq: 02 Dec 2025 01:07

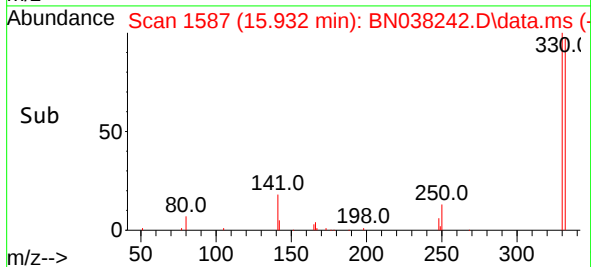
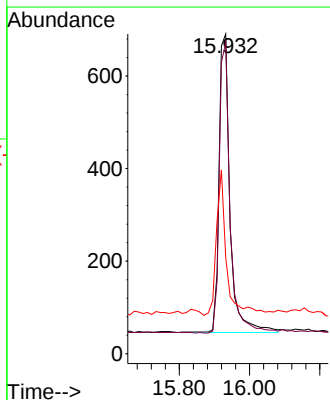
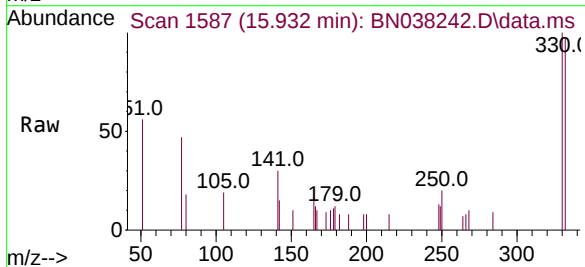
Instrument :  
BNA\_N  
ClientSampleId :  
RW7-SP201-20251118

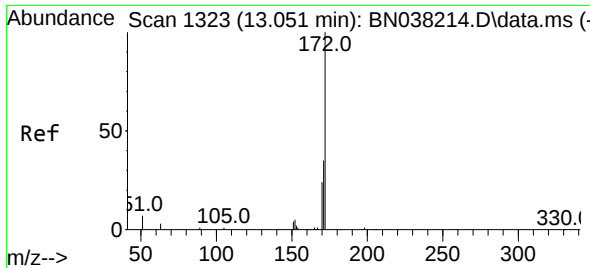
Tgt Ion:164 Resp: 11211  
Ion Ratio Lower Upper  
164 100  
162 104.0 83.8 125.8  
160 50.5 41.6 62.4



#14  
2,4,6-Tribromophenol  
Concen: 0.396 ng  
RT: 15.932 min Scan# 1587  
Delta R.T. 0.000 min  
Lab File: BN038242.D  
Acq: 02 Dec 2025 01:07

Tgt Ion:330 Resp: 1396  
Ion Ratio Lower Upper  
330 100  
332 95.6 77.8 116.6  
141 45.8 33.0 49.4

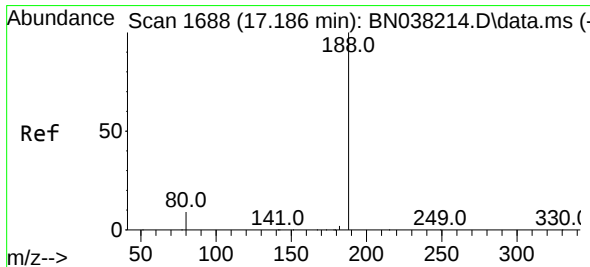
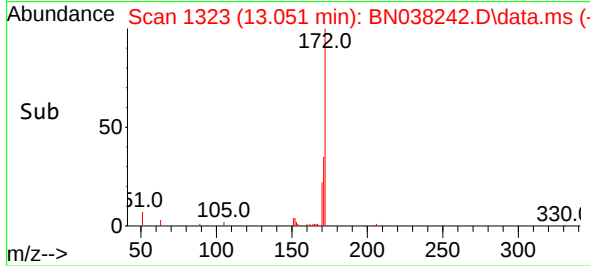
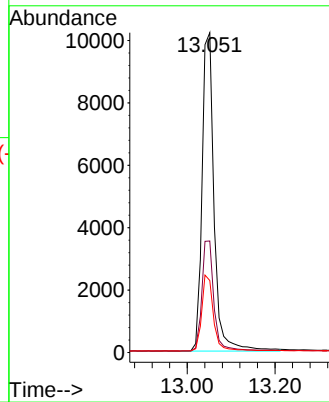
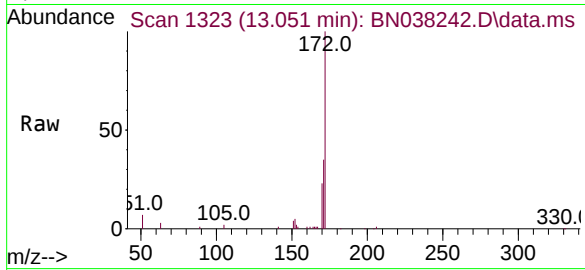




#15  
2-Fluorobiphenyl  
Concen: 0.399 ng  
RT: 13.051 min Scan# 1323  
Delta R.T. 0.000 min  
Lab File: BN038242.D  
Acq: 02 Dec 2025 01:07

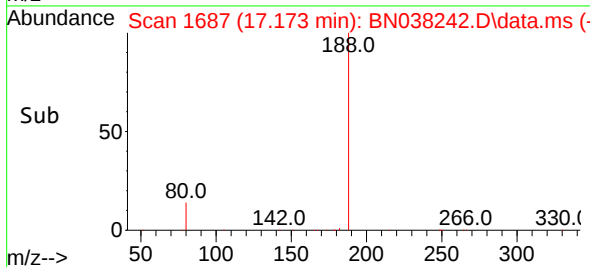
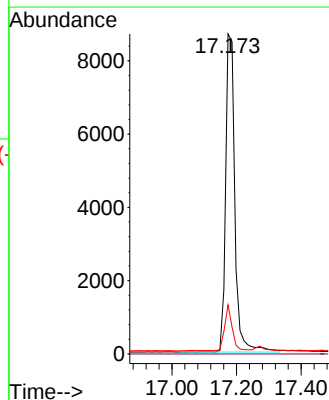
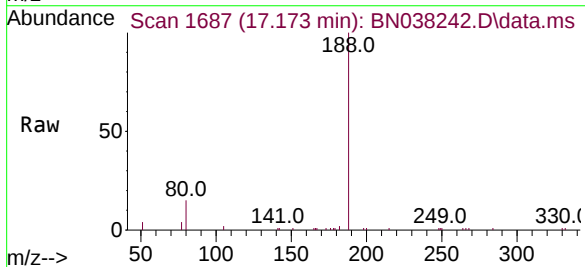
Instrument :  
BNA\_N  
ClientSampleId :  
RW7-SP201-20251118

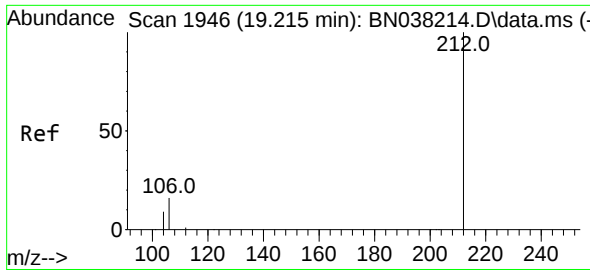
|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 172   | Resp: | 17264 |
| Ion Ratio | Lower | Upper |       |
| 172       | 100   |       |       |
| 171       | 34.9  | 28.1  | 42.1  |
| 170       | 22.5  | 19.1  | 28.7  |



#19  
Phenanthrene-d10  
Concen: 0.400 ng  
RT: 17.173 min Scan# 1687  
Delta R.T. -0.012 min  
Lab File: BN038242.D  
Acq: 02 Dec 2025 01:07

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 188   | Resp: | 17126 |
| Ion Ratio | Lower | Upper |       |
| 188       | 100   |       |       |
| 94        | 0.0   | 0.0   | 0.0   |
| 80        | 15.3  | 7.7   | 11.5  |





#27

Fluoranthene-d10

Concen: 0.454 ng

RT: 19.215 min Scan# 1946

Delta R.T. 0.000 min

Lab File: BN038242.D

Acq: 02 Dec 2025 01:07

Instrument :

BNA\_N

ClientSampleId :

RW7-SP201-20251118

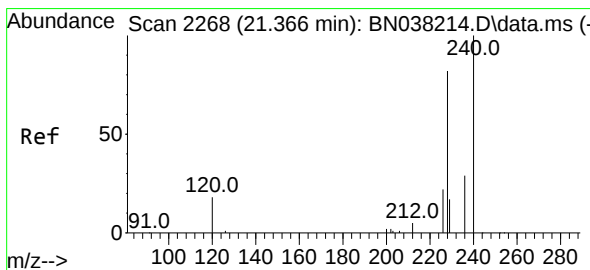
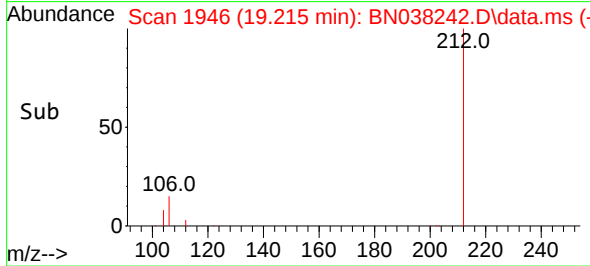
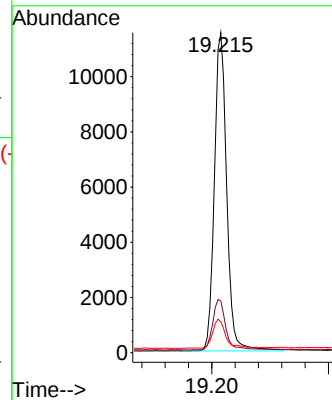
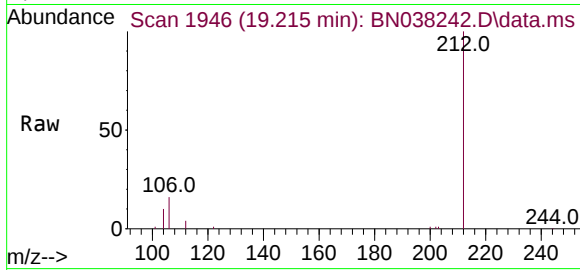
Tgt Ion:212 Resp: 16850

Ion Ratio Lower Upper

212 100

106 16.8 12.7 19.1

104 9.6 7.3 10.9



#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.366 min Scan# 2268

Delta R.T. 0.000 min

Lab File: BN038242.D

Acq: 02 Dec 2025 01:07

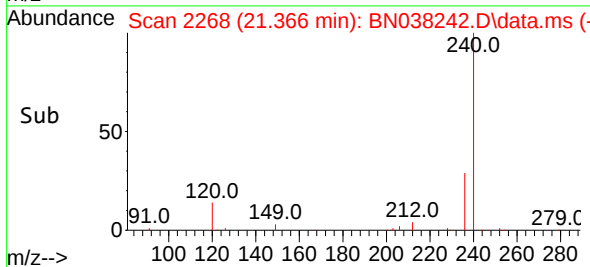
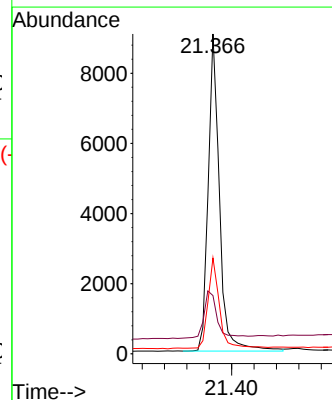
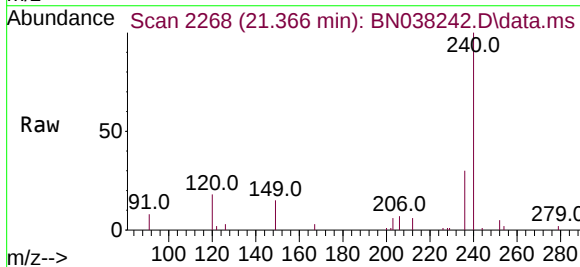
Tgt Ion:240 Resp: 12662

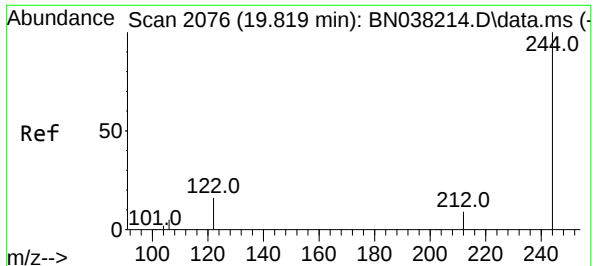
Ion Ratio Lower Upper

240 100

120 18.2 18.1 27.1

236 30.0 24.2 36.4

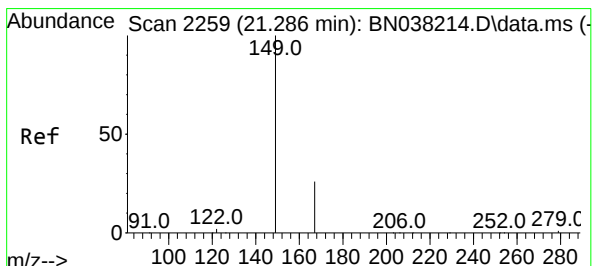
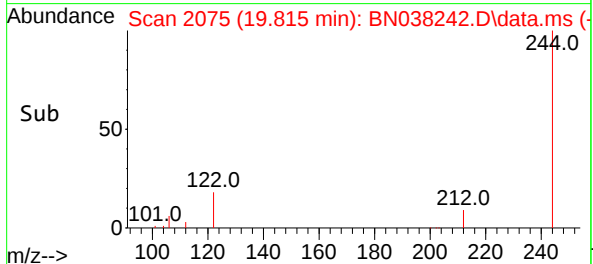
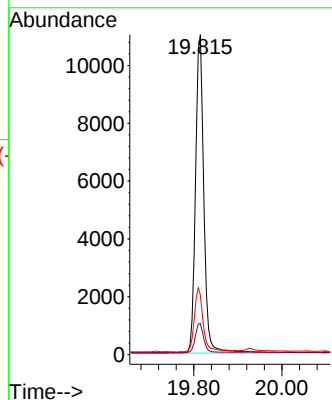
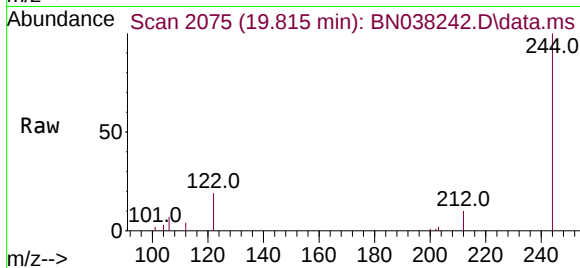




#31  
Terphenyl-d14  
Concen: 0.497 ng  
RT: 19.815 min Scan# 2075  
Delta R.T. -0.005 min  
Lab File: BN038242.D  
Acq: 02 Dec 2025 01:07

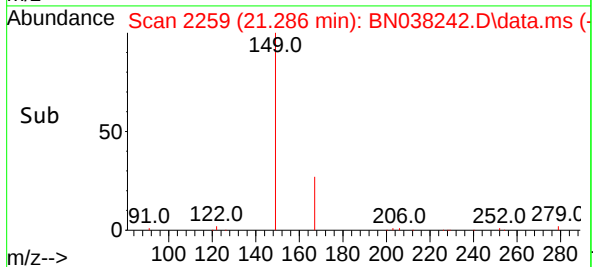
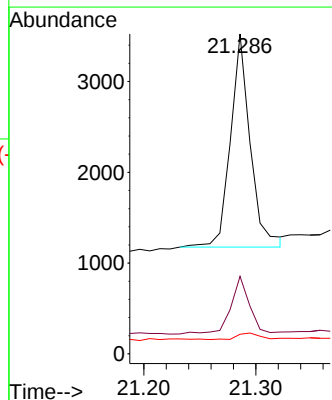
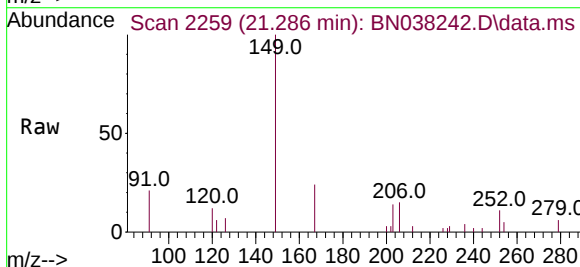
Instrument :  
BNA\_N  
ClientSampleId :  
RW7-SP201-20251118

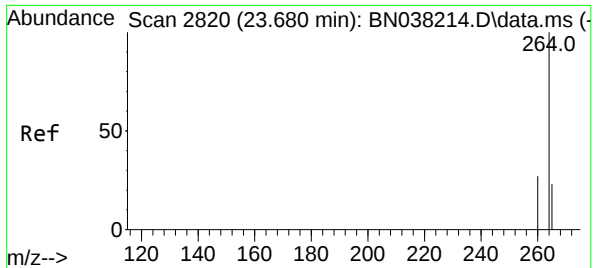
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 244     | 100   |       |       |
| 212     | 9.7   | 7.7   | 11.5  |
| 122     | 18.6  | 13.6  | 20.4  |



#34  
Bis(2-ethylhexyl)phthalate  
Concen: 0.123 ng  
RT: 21.286 min Scan# 2259  
Delta R.T. 0.000 min  
Lab File: BN038242.D  
Acq: 02 Dec 2025 01:07

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 149     | 100   |       |       |
| 167     | 25.9  | 20.7  | 31.1  |
| 279     | 3.6   | 2.5   | 3.7   |





#35

Perylene-d12

Concen: 0.400 ng

RT: 23.674 min Scan# 28

Delta R.T. -0.006 min

Lab File: BN038242.D

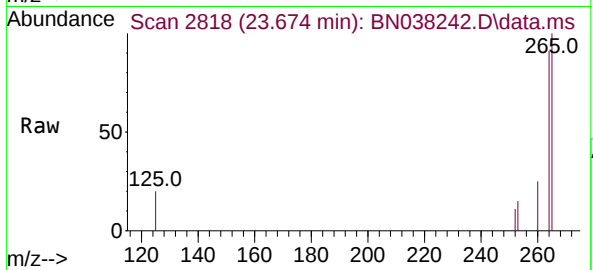
Acq: 02 Dec 2025 01:07

Instrument :

BNA\_N

ClientSampleId :

RW7-SP201-20251118



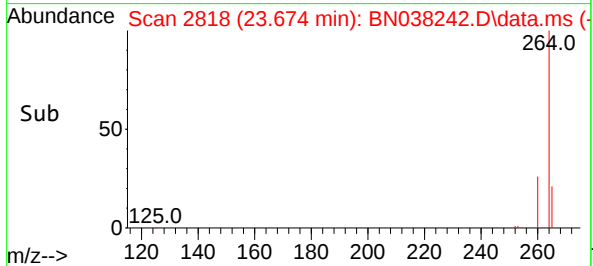
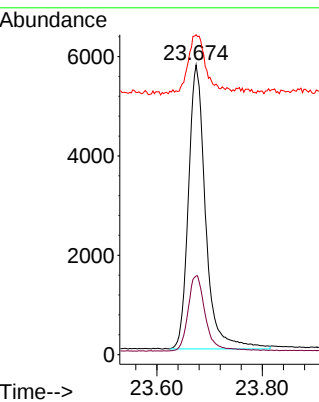
Tgt Ion:264 Resp: 12907

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

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

|     |      |      |      |
|-----|------|------|------|
| 260 | 27.2 | 21.7 | 32.5 |
|-----|------|------|------|

|     |       |      |       |
|-----|-------|------|-------|
| 265 | 110.5 | 98.0 | 147.0 |
|-----|-------|------|-------|



## Report of Analysis

|                                              |                          |  |
|----------------------------------------------|--------------------------|--|
| Client: Tetra Tech NUS, Inc.                 | Date Collected: 11/18/25 |  |
| Project: NWIRP Bethpage 112G08005-WE13       | Date Received: 11/20/25  |  |
| Client Sample ID: RW7-SP302-20251118         | SDG No.: Q3691           |  |
| Lab Sample ID: Q3691-03                      | Matrix: Water            |  |
| Analytical Method: SW8270ESIM    Level: LOW  | % Solid: 0               |  |
| Sample Wt/Vol: 1000 mL    Final Vol: 1000 uL | Test: SVOC-SIMGroup1     |  |
| Prep Method : 3510C    Prep Date: 11/21/25   |                          |  |

| CAS Number                | Parameter               | Conc.             | Qua. | DF | MDL      | LOD  | LOQ / CRQL | Units    | Date Ana.      | Prep BatchID |
|---------------------------|-------------------------|-------------------|------|----|----------|------|------------|----------|----------------|--------------|
| <b>TARGETS</b>            |                         |                   |      |    |          |      |            |          |                |              |
| 123-91-1                  | 1,4-Dioxane             | 0.20              | U    | 1  | 0.070    | 0.20 | 0.20       | ug/L     | 12/02/25 01:43 | PB170712     |
| <b>SURROGATES</b>         |                         |                   |      |    |          |      |            |          |                |              |
| 7297-45-2                 | 2-Methylnaphthalene-d10 | 0.38              |      |    | 30 - 150 |      | 94%        | SPK: 0.4 |                |              |
| 93951-69-0                | Fluoranthene-d10        | 0.47              |      |    | 30 - 150 |      | 118%       | SPK: 0.4 |                |              |
| 4165-60-0                 | Nitrobenzene-d5         | 0.44              |      |    | 55 - 111 |      | 111%       | SPK: 0.4 |                |              |
| 321-60-8                  | 2-Fluorobiphenyl        | 0.46              | *    |    | 53 - 106 |      | 115%       | SPK: 0.4 |                |              |
| 1718-51-0                 | Terphenyl-d14           | 0.49              |      |    | 58 - 132 |      | 122%       | SPK: 0.4 |                |              |
| <b>INTERNAL STANDARDS</b> |                         | <b>Area Count</b> |      |    |          |      |            |          |                |              |
| 3855-82-1                 | 1,4-Dichlorobenzene-d4  | 8270              |      |    |          |      |            |          |                |              |
| 1146-65-2                 | Naphthalene-d8          | 23900             |      |    |          |      |            |          |                |              |
| 15067-26-2                | Acenaphthene-d10        | 11000             |      |    |          |      |            |          |                |              |
| 1517-22-2                 | Phenanthrene-d10        | 15900             |      |    |          |      |            |          |                |              |
| 1719-03-5                 | Chrysene-d12            | 11600             |      |    |          |      |            |          |                |              |
| 1520-96-3                 | Perylene-d12            | 11900             |      |    |          |      |            |          |                |              |

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\BN120125\  
Data File : BN038243.D  
Acq On : 02 Dec 2025 01:43  
Operator : RC/JU  
Sample : Q3691-03  
Misc :  
ALS Vial : 15 Sample Multiplier: 1

Instrument :  
BNA\_N  
ClientSampleId :  
RW7-SP302-20251118

Quant Time: Dec 02 03:24:45 2025  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\8270-SIM-BN112725.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Fri Nov 28 21:04:10 2025  
Response via : Initial Calibration

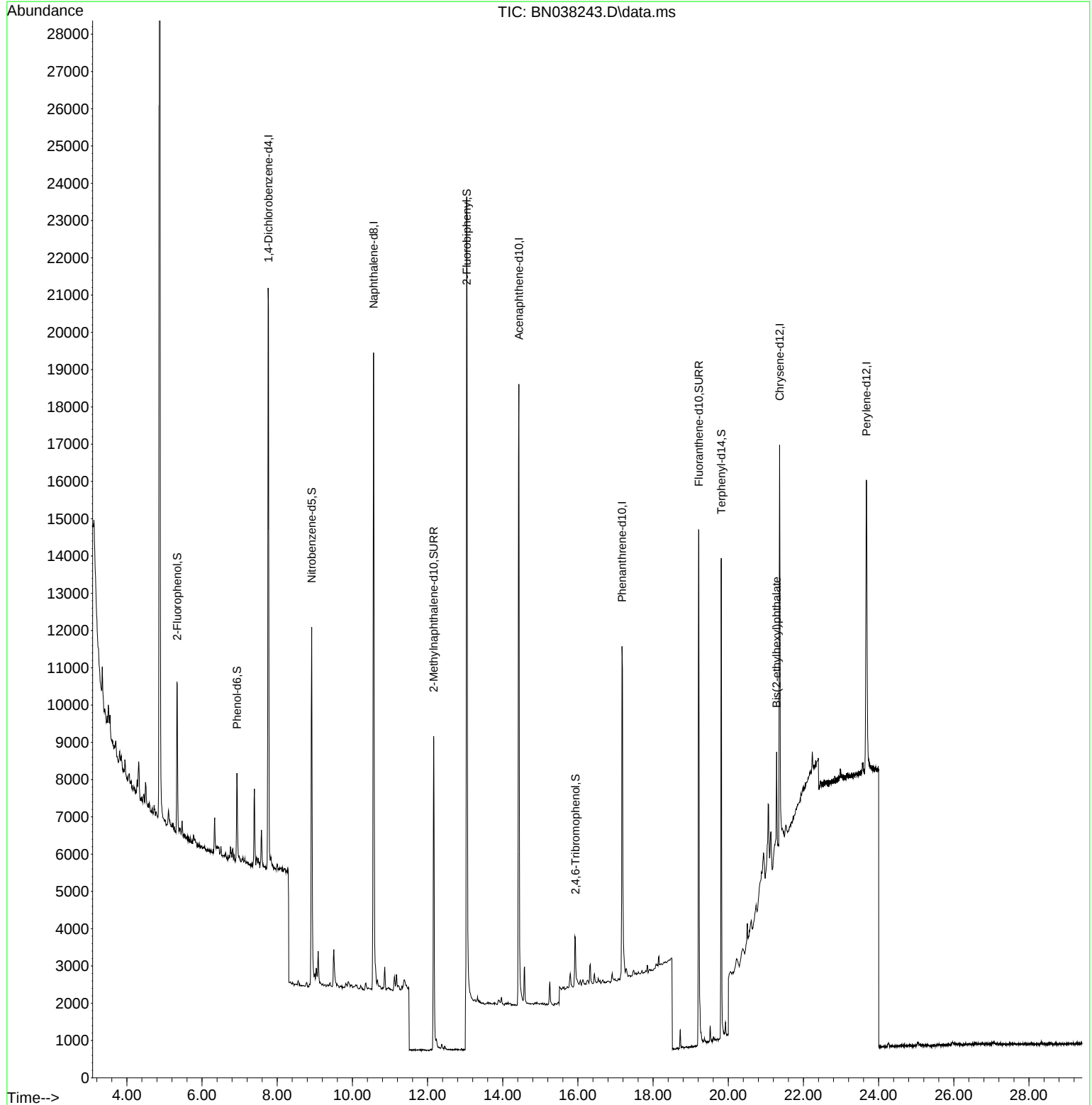
| Compound                      | R.T.   | QIon | Response | Conc  | Units | Dev(Min)    |
|-------------------------------|--------|------|----------|-------|-------|-------------|
| Internal Standards            |        |      |          |       |       |             |
| 1) 1,4-Dichlorobenzene-d4     | 7.768  | 152  | 8272     | 0.400 | ng    | 0.00        |
| 7) Naphthalene-d8             | 10.562 | 136  | 23888    | 0.400 | ng    | #-0.01      |
| 13) Acenaphthene-d10          | 14.430 | 164  | 10984    | 0.400 | ng    | 0.00        |
| 19) Phenanthrene-d10          | 17.173 | 188  | 15936    | 0.400 | ng    | #-0.01      |
| 29) Chrysene-d12              | 21.366 | 240  | 11565    | 0.400 | ng    | 0.00        |
| 35) Perylene-d12              | 23.674 | 264  | 11916    | 0.400 | ng    | 0.00        |
| System Monitoring Compounds   |        |      |          |       |       |             |
| 4) 2-Fluorophenol             | 5.341  | 112  | 3360     | 0.174 | ng    | 0.00        |
| 5) Phenol-d6                  | 6.930  | 99   | 2376     | 0.098 | ng    | 0.00        |
| 8) Nitrobenzene-d5            | 8.918  | 82   | 8456     | 0.443 | ng    | 0.00        |
| 11) 2-Methylnaphthalene-d10   | 12.162 | 152  | 12748    | 0.376 | ng    | 0.00        |
| 14) 2,4,6-Tribromophenol      | 15.932 | 330  | 1067     | 0.309 | ng    | 0.00        |
| 15) 2-Fluorobiphenyl          | 13.041 | 172  | 19539    | 0.461 | ng    | -0.01       |
| 27) Fluoranthene-d10          | 19.215 | 212  | 16359    | 0.473 | ng    | 0.00        |
| 31) Terphenyl-d14             | 19.815 | 244  | 12987    | 0.486 | ng    | 0.00        |
| Target Compounds              |        |      |          |       |       |             |
| 34) Bis(2-ethylhexyl)phtha... | 21.286 | 149  | 3661     | 0.171 | ng    | Qvalue # 84 |

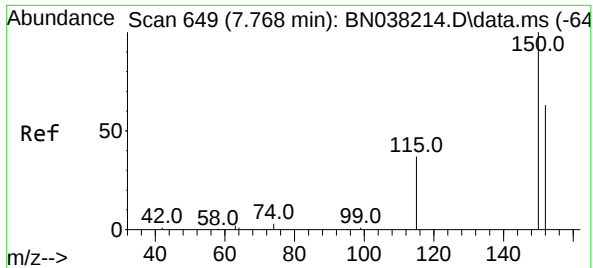
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN120125\  
Data File : BN038243.D  
Acq On : 02 Dec 2025 01:43  
Operator : RC/JU  
Sample : Q3691-03  
Misc :  
ALS Vial : 15 Sample Multiplier: 1

Instrument :  
BNA\_N  
ClientSampleId :  
RW7-SP302-20251118

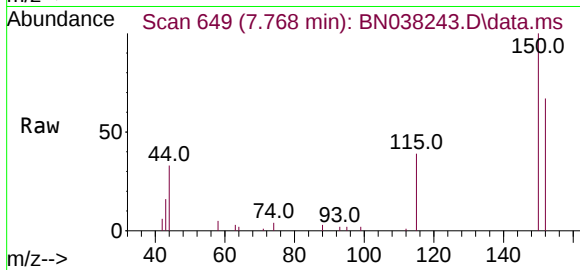
Quant Time: Dec 02 03:24:45 2025  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\8270-SIM-BN112725.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Fri Nov 28 21:04:10 2025  
Response via : Initial Calibration



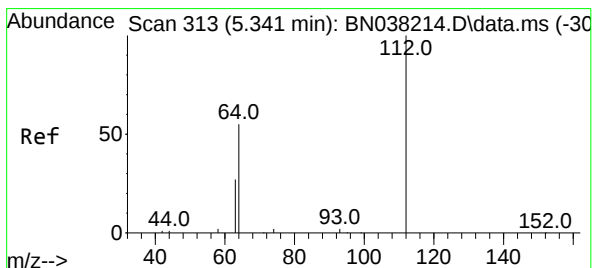
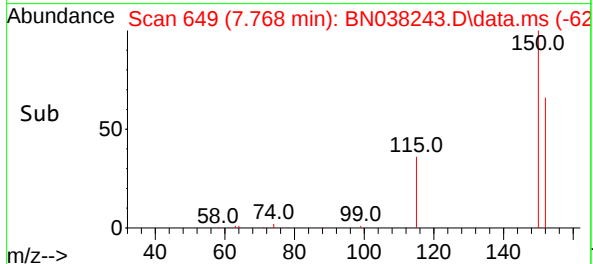
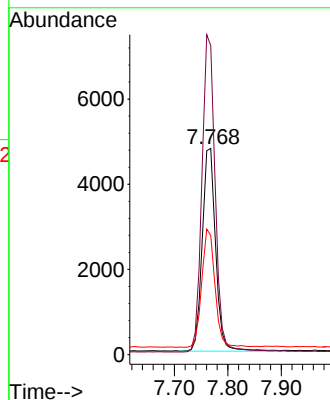


#1  
1,4-Dichlorobenzene-d4  
Concen: 0.400 ng  
RT: 7.768 min Scan# 649  
Delta R.T. -0.000 min  
Lab File: BN038243.D  
Acq: 02 Dec 2025 01:43

Instrument :  
BNA\_N  
ClientSampleId :  
RW7-SP302-20251118

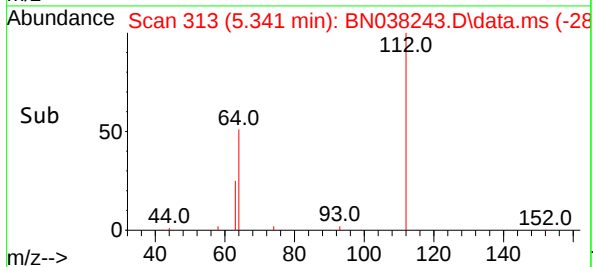
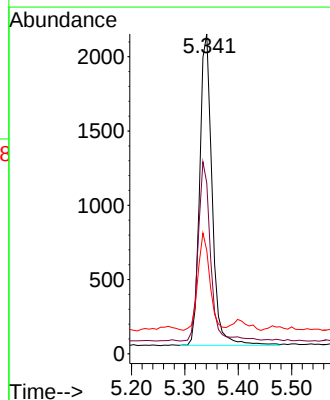
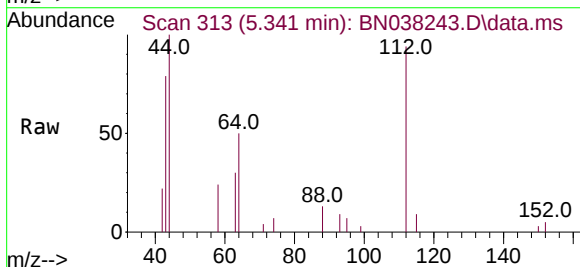


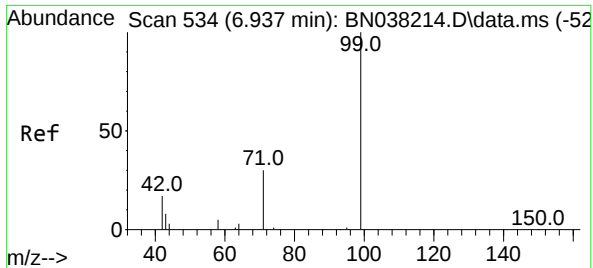
Tgt Ion:152 Resp: 8272  
Ion Ratio Lower Upper  
152 100  
150 149.8 125.3 187.9  
115 57.8 49.0 73.4



#4  
2-Fluorophenol  
Concen: 0.174 ng  
RT: 5.341 min Scan# 313  
Delta R.T. 0.000 min  
Lab File: BN038243.D  
Acq: 02 Dec 2025 01:43

Tgt Ion:112 Resp: 3360  
Ion Ratio Lower Upper  
112 100  
64 57.7 45.0 67.4  
63 29.9 23.2 34.8

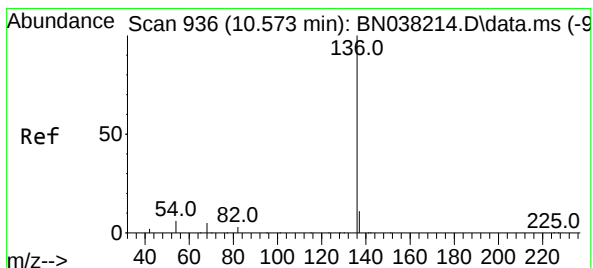
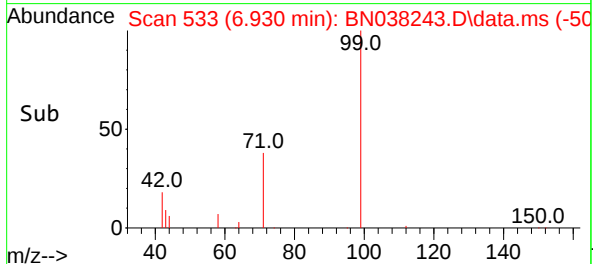
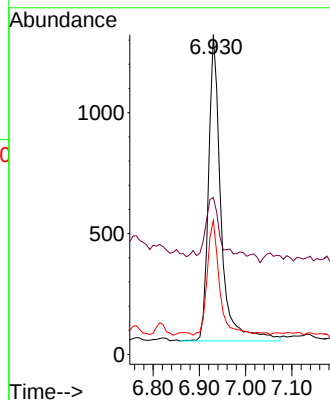
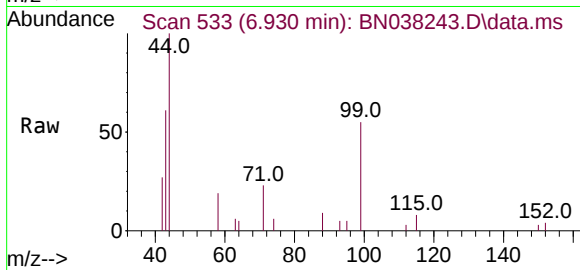




#5  
Phenol-d6  
Concen: 0.098 ng  
RT: 6.930 min Scan# 531  
Delta R.T. -0.007 min  
Lab File: BN038243.D  
Acq: 02 Dec 2025 01:43

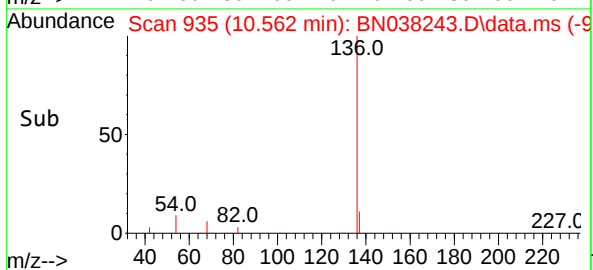
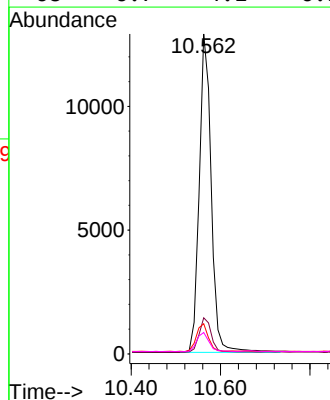
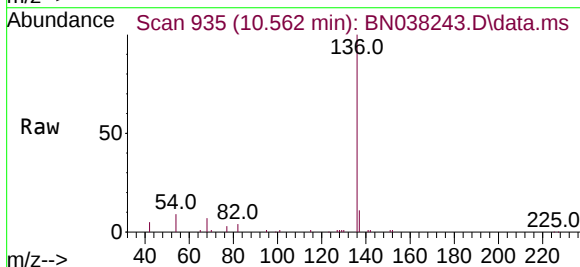
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ClientSampleId :  
RW7-SP302-20251118

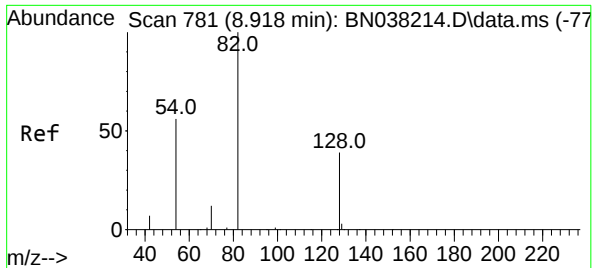
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 99    | Resp: | 2376  |
| Ion      | Ratio | Lower | Upper |
| 99       | 100   |       |       |
| 42       | 20.8  | 17.0  | 25.6  |
| 71       | 36.7  | 25.4  | 38.2  |



#7  
Naphthalene-d8  
Concen: 0.400 ng  
RT: 10.562 min Scan# 935  
Delta R.T. -0.011 min  
Lab File: BN038243.D  
Acq: 02 Dec 2025 01:43

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 136   | Resp: | 23888 |
| Ion      | Ratio | Lower | Upper |
| 136      | 100   |       |       |
| 137      | 11.3  | 8.9   | 13.3  |
| 54       | 9.4   | 5.4   | 8.0#  |
| 68       | 6.7   | 4.1   | 6.1#  |

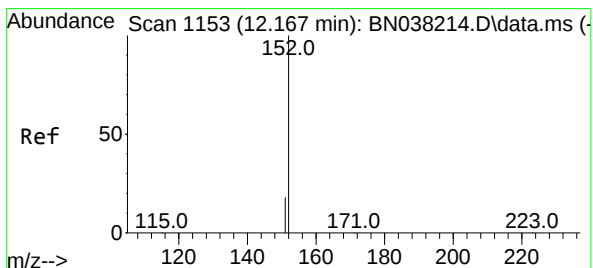
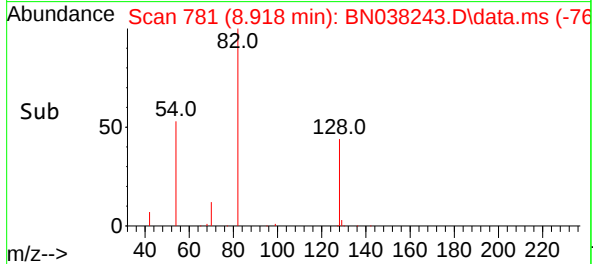
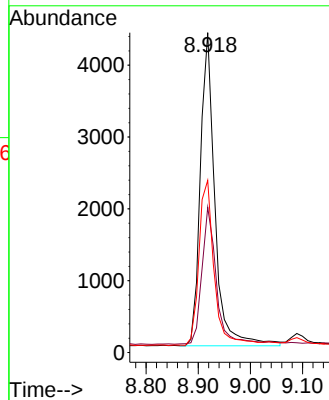
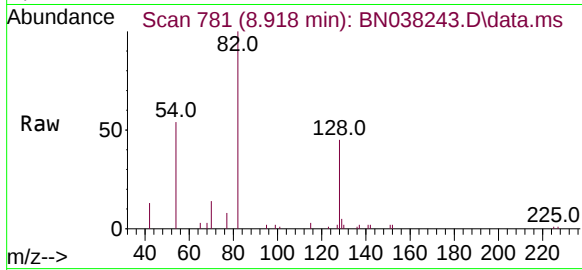




#8  
Nitrobenzene-d5  
Concen: 0.443 ng  
RT: 8.918 min Scan# 781  
Delta R.T. 0.000 min  
Lab File: BN038243.D  
Acq: 02 Dec 2025 01:43

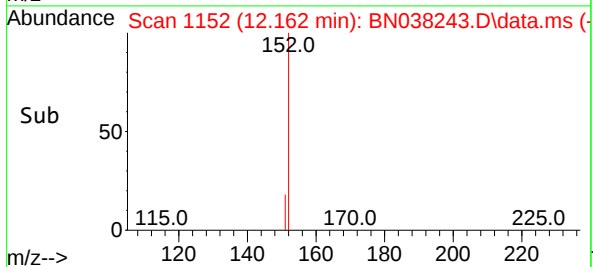
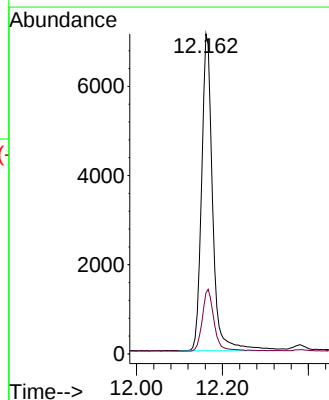
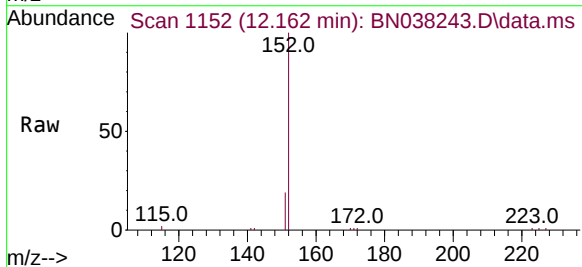
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BNA\_N  
ClientSampleId :  
RW7-SP302-20251118

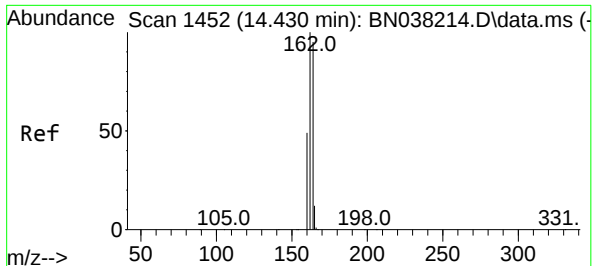
|           |       |       |      |
|-----------|-------|-------|------|
| Tgt Ion:  | 82    | Resp: | 8456 |
| Ion Ratio | Lower | Upper |      |
| 82        | 100   |       |      |
| 128       | 45.4  | 32.6  | 48.8 |
| 54        | 53.8  | 45.4  | 68.0 |



#11  
2-Methylnaphthalene-d10  
Concen: 0.376 ng  
RT: 12.162 min Scan# 1152  
Delta R.T. -0.005 min  
Lab File: BN038243.D  
Acq: 02 Dec 2025 01:43

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 152   | Resp: | 12748 |
| Ion Ratio | Lower | Upper |       |
| 152       | 100   |       |       |
| 151       | 21.1  | 16.7  | 25.1  |

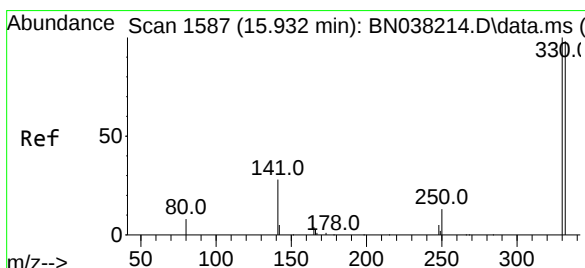
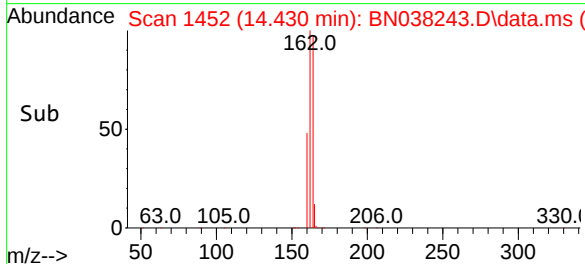
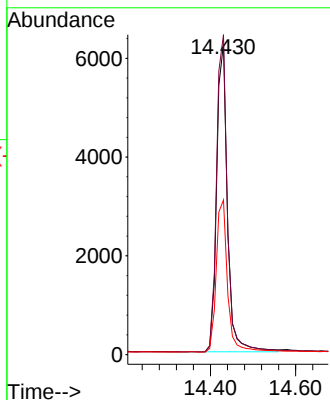
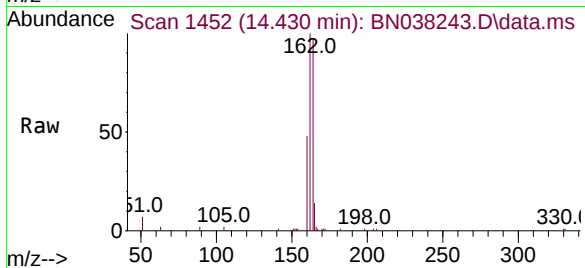




#13  
Acenaphthene-d10  
Concen: 0.400 ng  
RT: 14.430 min Scan# 1452  
Delta R.T. 0.000 min  
Lab File: BN038243.D  
Acq: 02 Dec 2025 01:43

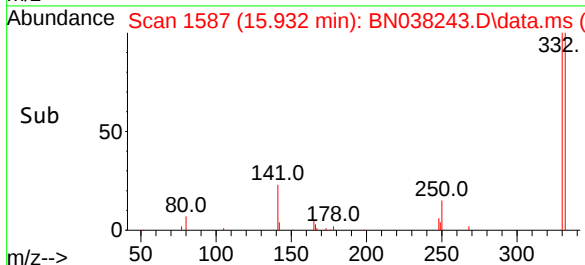
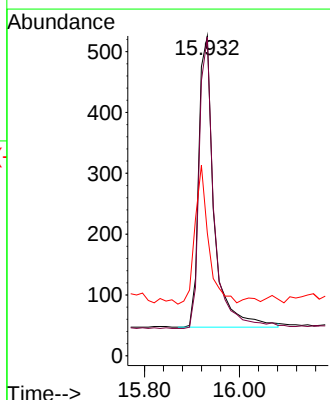
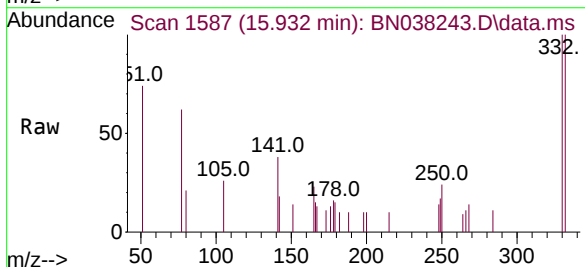
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BNA\_N  
ClientSampleId :  
RW7-SP302-20251118

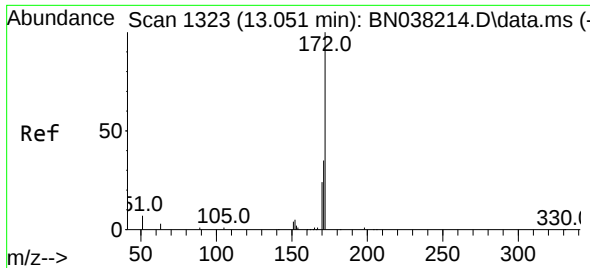
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 164     | 100   |       |       |
| 162     | 103.0 | 83.8  | 125.8 |
| 160     | 49.8  | 41.6  | 62.4  |



#14  
2,4,6-Tribromophenol  
Concen: 0.309 ng  
RT: 15.932 min Scan# 1587  
Delta R.T. 0.000 min  
Lab File: BN038243.D  
Acq: 02 Dec 2025 01:43

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 330     | 100   |       |       |
| 332     | 97.7  | 77.8  | 116.6 |
| 141     | 42.5  | 33.0  | 49.4  |

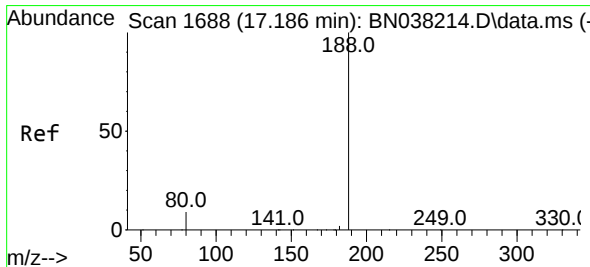
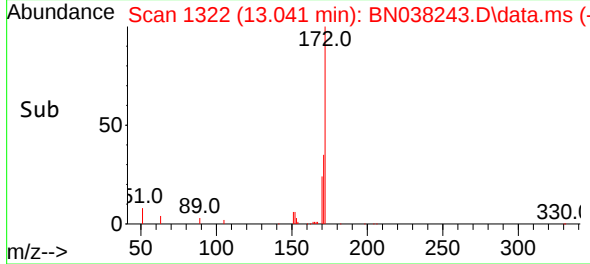
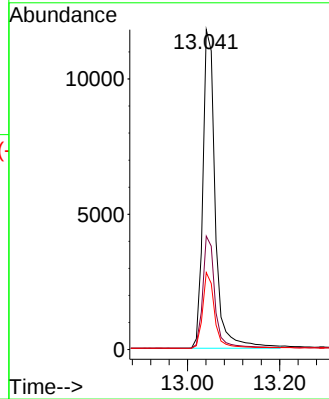
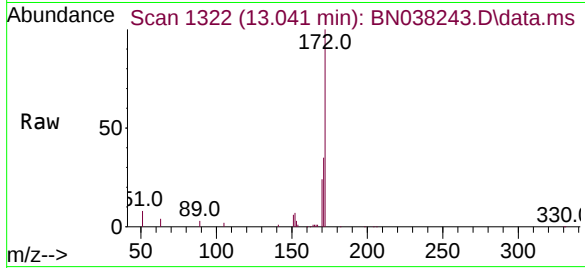




#15  
2-Fluorobiphenyl  
Concen: 0.461 ng  
RT: 13.041 min Scan# 1323  
Delta R.T. -0.010 min  
Lab File: BN038243.D  
Acq: 02 Dec 2025 01:43

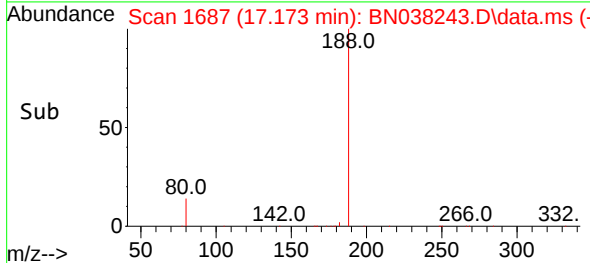
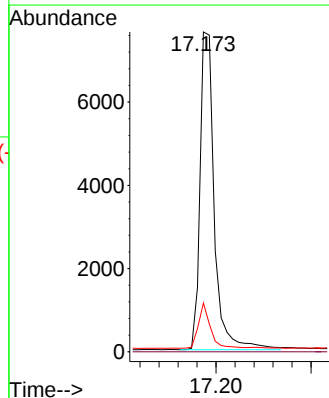
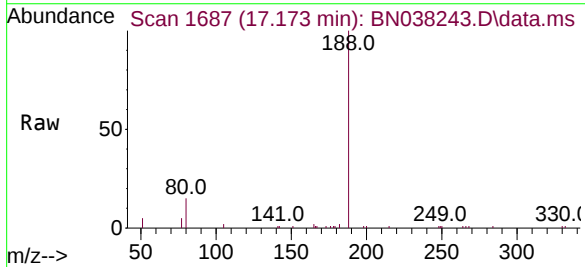
Instrument :  
BNA\_N  
ClientSampleId :  
RW7-SP302-20251118

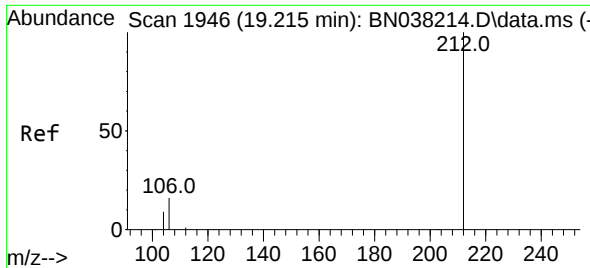
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|-----------|-------|-------|-------|
| Tgt Ion:  | 172   | Resp: | 19539 |
| Ion Ratio | Lower | Upper |       |
| 172       | 100   |       |       |
| 171       | 35.5  | 28.1  | 42.1  |
| 170       | 24.1  | 19.1  | 28.7  |



#19  
Phenanthrene-d10  
Concen: 0.400 ng  
RT: 17.173 min Scan# 1687  
Delta R.T. -0.012 min  
Lab File: BN038243.D  
Acq: 02 Dec 2025 01:43

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 188   | Resp: | 15936 |
| Ion Ratio | Lower | Upper |       |
| 188       | 100   |       |       |
| 94        | 0.0   | 0.0   | 0.0   |
| 80        | 15.3  | 7.7   | 11.5  |

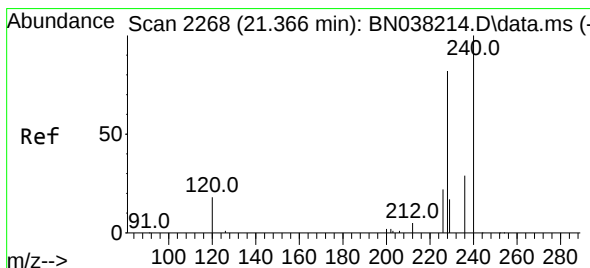
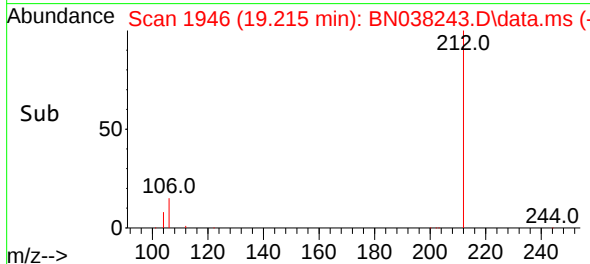
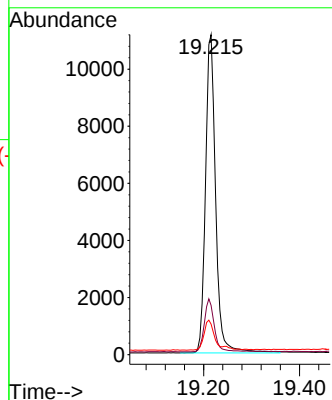
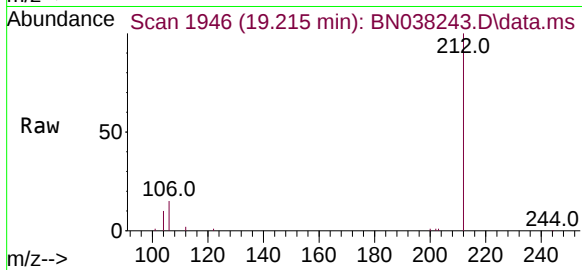




#27  
Fluoranthene-d10  
Concen: 0.473 ng  
RT: 19.215 min Scan# 1946  
Delta R.T. 0.000 min  
Lab File: BN038243.D  
Acq: 02 Dec 2025 01:43

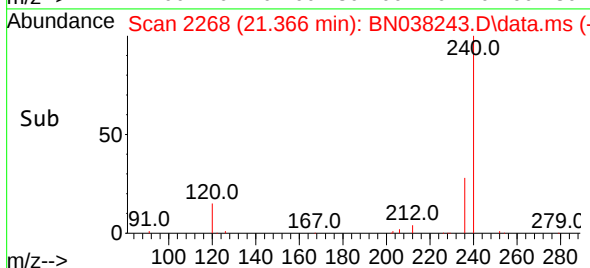
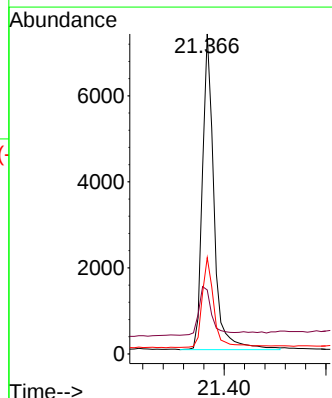
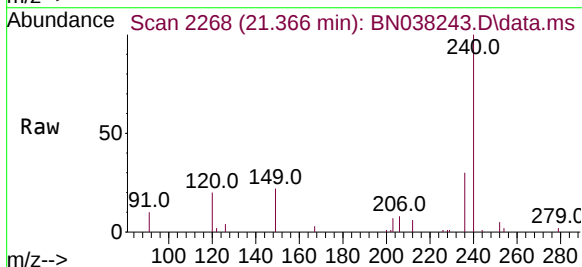
Instrument :  
BNA\_N  
ClientSampleId :  
RW7-SP302-20251118

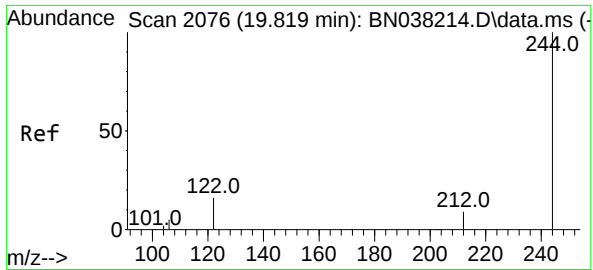
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 212     | 100   |       |       |
| 106     | 16.6  | 12.7  | 19.1  |
| 104     | 9.3   | 7.3   | 10.9  |



#29  
Chrysene-d12  
Concen: 0.400 ng  
RT: 21.366 min Scan# 2268  
Delta R.T. 0.000 min  
Lab File: BN038243.D  
Acq: 02 Dec 2025 01:43

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 240     | 100   |       |       |
| 120     | 20.0  | 18.1  | 27.1  |
| 236     | 30.1  | 24.2  | 36.4  |

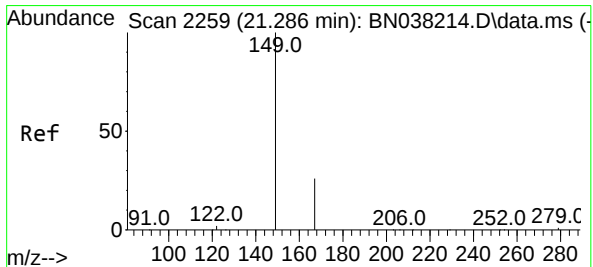
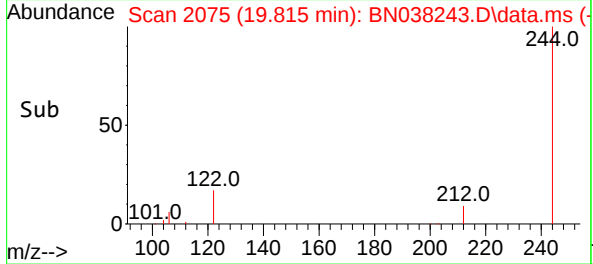
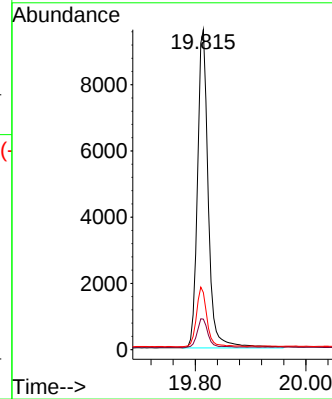
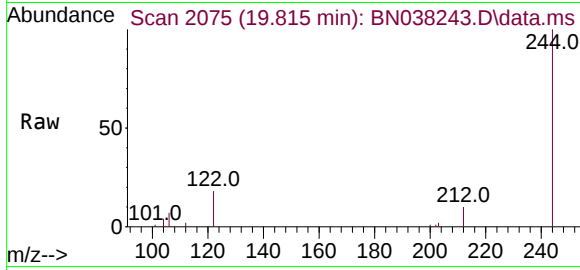




#31  
Terphenyl-d14  
Concen: 0.486 ng  
RT: 19.815 min Scan# 2075  
Delta R.T. -0.005 min  
Lab File: BN038243.D  
Acq: 02 Dec 2025 01:43

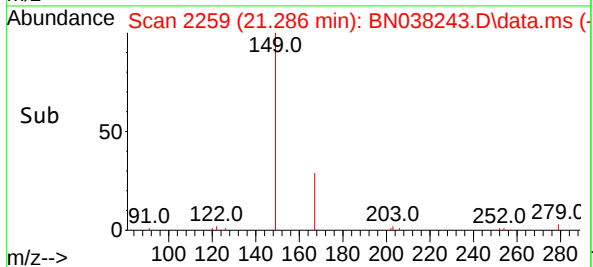
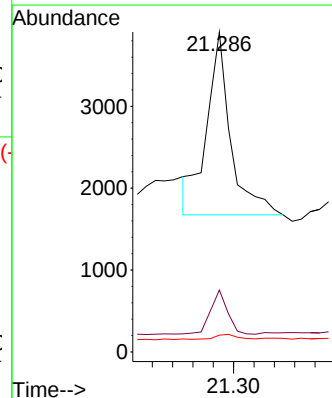
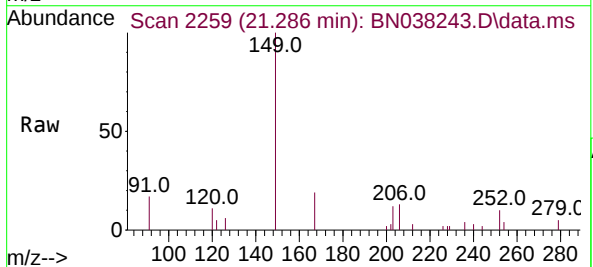
Instrument :  
BNA\_N  
ClientSampleId :  
RW7-SP302-20251118

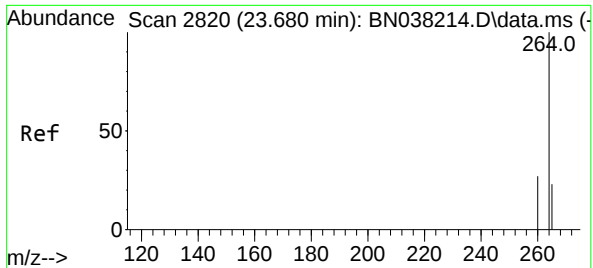
|             |       |           |
|-------------|-------|-----------|
| Tgt Ion:244 | Resp: | 12987     |
| Ion Ratio   | Lower | Upper     |
| 244         | 100   |           |
| 212         | 9.5   | 7.7 11.5  |
| 122         | 17.8  | 13.6 20.4 |



#34  
Bis(2-ethylhexyl)phthalate  
Concen: 0.171 ng  
RT: 21.286 min Scan# 2259  
Delta R.T. 0.000 min  
Lab File: BN038243.D  
Acq: 02 Dec 2025 01:43

|             |       |            |
|-------------|-------|------------|
| Tgt Ion:149 | Resp: | 3661       |
| Ion Ratio   | Lower | Upper      |
| 149         | 100   |            |
| 167         | 16.8  | 20.7 31.1# |
| 279         | 2.7   | 2.5 3.7    |





#35

Perylene-d12

Concen: 0.400 ng

RT: 23.674 min Scan# 28

Delta R.T. -0.006 min

Lab File: BN038243.D

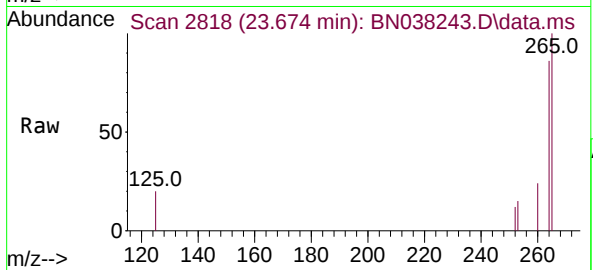
Acq: 02 Dec 2025 01:43

Instrument :

BNA\_N

ClientSampleId :

RW7-SP302-20251118



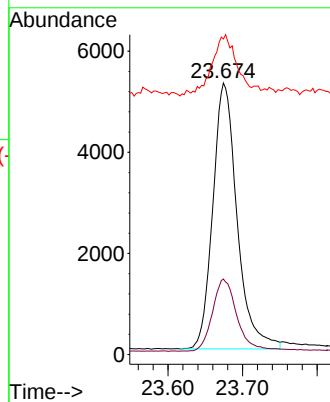
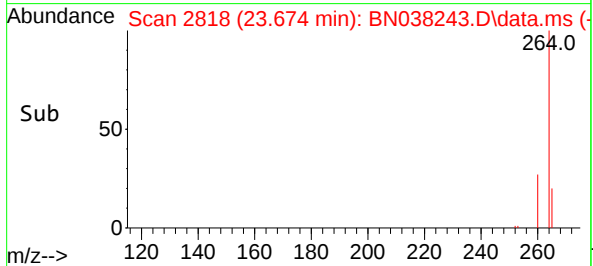
Tgt Ion:264 Resp: 11916

Ion Ratio Lower Upper

264 100

260 27.8 21.7 32.5

265 116.2 98.0 147.0



## Report of Analysis

|                                             |                          |  |
|---------------------------------------------|--------------------------|--|
| Client: Tetra Tech NUS, Inc.                | Date Collected: 11/18/25 |  |
| Project: NWIRP Bethpage 112G08005-WE13      | Date Received: 11/20/25  |  |
| Client Sample ID: RW7-SP303-20251118        | SDG No.: Q3691           |  |
| Lab Sample ID: Q3691-04                     | Matrix: Water            |  |
| Analytical Method: SW8270ESIM    Level: LOW | % Solid: 0               |  |
| Sample Wt/Vol: 900 mL    Final Vol: 1000 uL | Test: SVOC-SIMGroup1     |  |
| Prep Method : 3510C    Prep Date: 11/21/25  |                          |  |

| CAS Number                | Parameter               | Conc.             | Qua. | DF | MDL      | LOD  | LOQ / CRQL | Units    | Date Ana.      | Prep BatchID |
|---------------------------|-------------------------|-------------------|------|----|----------|------|------------|----------|----------------|--------------|
| <b>TARGETS</b>            |                         |                   |      |    |          |      |            |          |                |              |
| 123-91-1                  | 1,4-Dioxane             | 0.22              | U    | 1  | 0.070    | 0.22 | 0.22       | ug/L     | 12/02/25 02:19 | PB170712     |
| <b>SURROGATES</b>         |                         |                   |      |    |          |      |            |          |                |              |
| 7297-45-2                 | 2-Methylnaphthalene-d10 | 0.31              |      |    | 30 - 150 |      | 78%        | SPK: 0.4 |                |              |
| 93951-69-0                | Fluoranthene-d10        | 0.46              |      |    | 30 - 150 |      | 116%       | SPK: 0.4 |                |              |
| 4165-60-0                 | Nitrobenzene-d5         | 0.37              |      |    | 55 - 111 |      | 92%        | SPK: 0.4 |                |              |
| 321-60-8                  | 2-Fluorobiphenyl        | 0.43              |      |    | 53 - 106 |      | 106%       | SPK: 0.4 |                |              |
| 1718-51-0                 | Terphenyl-d14           | 0.59              | *    |    | 58 - 132 |      | 147%       | SPK: 0.4 |                |              |
| <b>INTERNAL STANDARDS</b> |                         | <b>Area Count</b> |      |    |          |      |            |          |                |              |
| 3855-82-1                 | 1,4-Dichlorobenzene-d4  | 7800              |      |    |          |      |            |          |                |              |
| 1146-65-2                 | Naphthalene-d8          | 22900             |      |    |          |      |            |          |                |              |
| 15067-26-2                | Acenaphthene-d10        | 10400             |      |    |          |      |            |          |                |              |
| 1517-22-2                 | Phenanthrene-d10        | 15600             |      |    |          |      |            |          |                |              |
| 1719-03-5                 | Chrysene-d12            | 11100             |      |    |          |      |            |          |                |              |
| 1520-96-3                 | Perylene-d12            | 11300             |      |    |          |      |            |          |                |              |

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\BN120125\  
Data File : BN038244.D  
Acq On : 02 Dec 2025 02:19  
Operator : RC/JU  
Sample : Q3691-04  
Misc :  
ALS Vial : 16 Sample Multiplier: 1

Instrument :  
BNA\_N  
ClientSampleId :  
RW7-SP303-20251118

Quant Time: Dec 02 03:24:59 2025  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\8270-SIM-BN112725.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Fri Nov 28 21:04:10 2025  
Response via : Initial Calibration

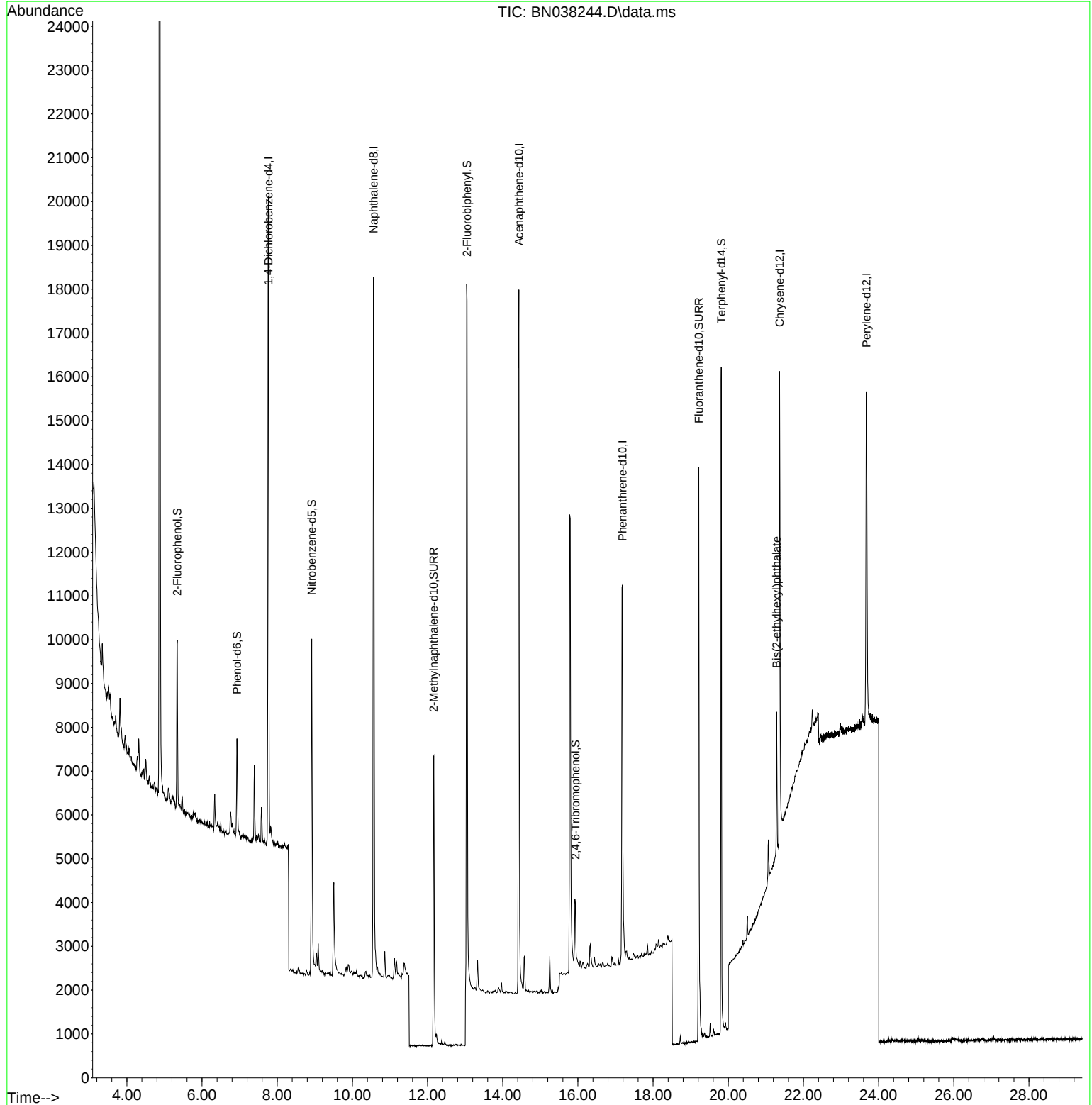
| Compound                      | R.T.   | QIon | Response | Conc  | Units | Dev(Min)  |
|-------------------------------|--------|------|----------|-------|-------|-----------|
| Internal Standards            |        |      |          |       |       |           |
| 1) 1,4-Dichlorobenzene-d4     | 7.767  | 152  | 7804     | 0.400 | ng    | 0.00      |
| 7) Naphthalene-d8             | 10.562 | 136  | 22916    | 0.400 | ng    | #-0.01    |
| 13) Acenaphthene-d10          | 14.430 | 164  | 10391    | 0.400 | ng    | 0.00      |
| 19) Phenanthrene-d10          | 17.186 | 188  | 15598    | 0.400 | ng    | 0.00      |
| 29) Chrysene-d12              | 21.366 | 240  | 11057    | 0.400 | ng    | 0.00      |
| 35) Perylene-d12              | 23.677 | 264  | 11303    | 0.400 | ng    | 0.00      |
| System Monitoring Compounds   |        |      |          |       |       |           |
| 4) 2-Fluorophenol             | 5.341  | 112  | 3191     | 0.175 | ng    | 0.00      |
| 5) Phenol-d6                  | 6.930  | 99   | 2227     | 0.098 | ng    | 0.00      |
| 8) Nitrobenzene-d5            | 8.918  | 82   | 6764     | 0.369 | ng    | 0.00      |
| 11) 2-Methylnaphthalene-d10   | 12.161 | 152  | 10111    | 0.311 | ng    | 0.00      |
| 14) 2,4,6-Tribromophenol      | 15.932 | 330  | 1177     | 0.360 | ng    | 0.00      |
| 15) 2-Fluorobiphenyl          | 13.051 | 172  | 17093    | 0.426 | ng    | 0.00      |
| 27) Fluoranthene-d10          | 19.215 | 212  | 15656    | 0.463 | ng    | 0.00      |
| 31) Terphenyl-d14             | 19.814 | 244  | 14989    | 0.587 | ng    | 0.00      |
| Target Compounds              |        |      |          |       |       |           |
| 34) Bis(2-ethylhexyl)phtha... | 21.286 | 149  | 3074     | 0.150 | ng    | Qvalue 98 |

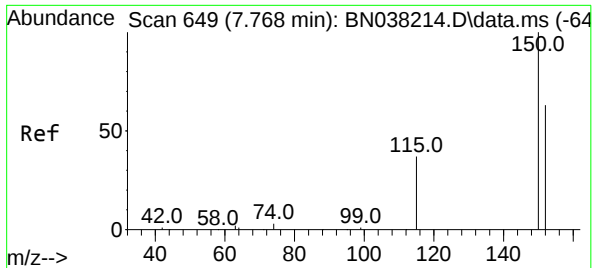
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Data File : BN038244.D  
Acq On : 02 Dec 2025 02:19  
Operator : RC/JU  
Sample : Q3691-04  
Misc :  
ALS Vial : 16 Sample Multiplier: 1

Instrument :  
BNA\_N  
ClientSampleId :  
RW7-SP303-20251118

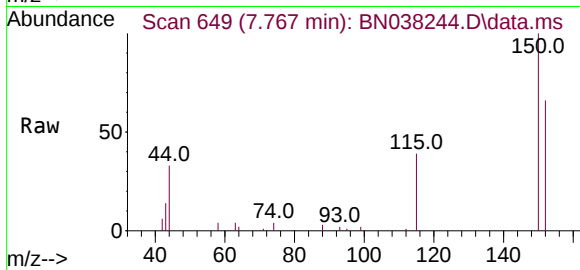
Quant Time: Dec 02 03:24:59 2025  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\8270-SIM-BN112725.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Fri Nov 28 21:04:10 2025  
Response via : Initial Calibration



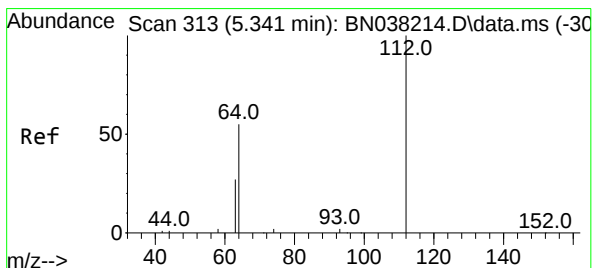
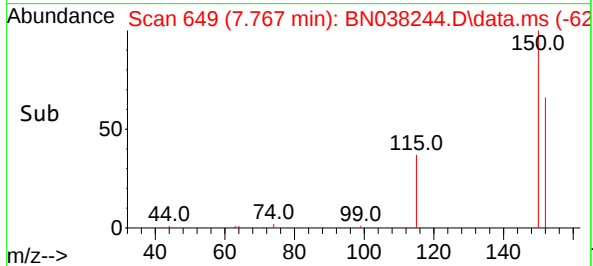
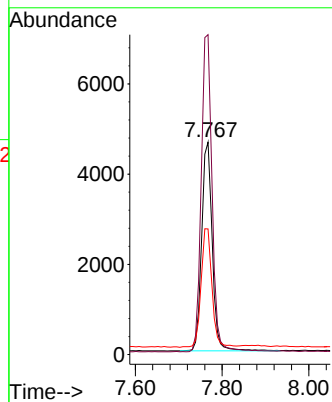


#1  
1,4-Dichlorobenzene-d4  
Concen: 0.400 ng  
RT: 7.767 min Scan# 649  
Delta R.T. -0.001 min  
Lab File: BN038244.D  
Acq: 02 Dec 2025 02:19

Instrument :  
BNA\_N  
ClientSampleId :  
RW7-SP303-20251118

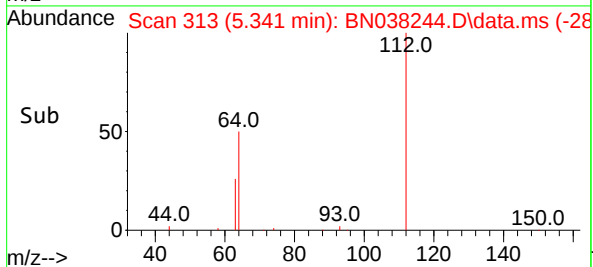
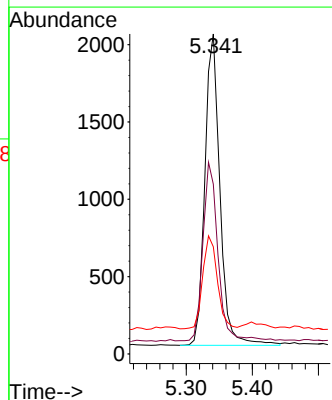
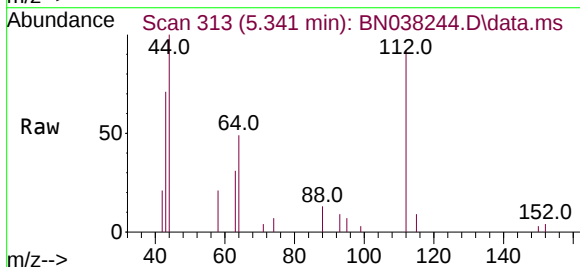


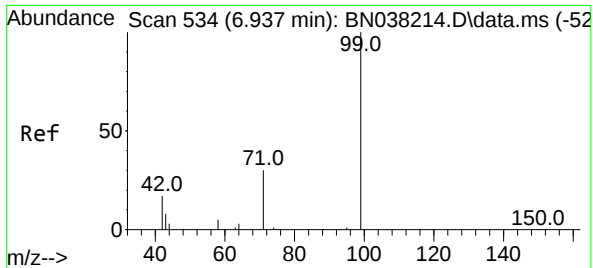
Tgt Ion:152 Resp: 7804  
Ion Ratio Lower Upper  
152 100  
150 150.6 125.3 187.9  
115 59.1 49.0 73.4



#4  
2-Fluorophenol  
Concen: 0.175 ng  
RT: 5.341 min Scan# 313  
Delta R.T. -0.000 min  
Lab File: BN038244.D  
Acq: 02 Dec 2025 02:19

Tgt Ion:112 Resp: 3191  
Ion Ratio Lower Upper  
112 100  
64 57.5 45.0 67.4  
63 30.0 23.2 34.8

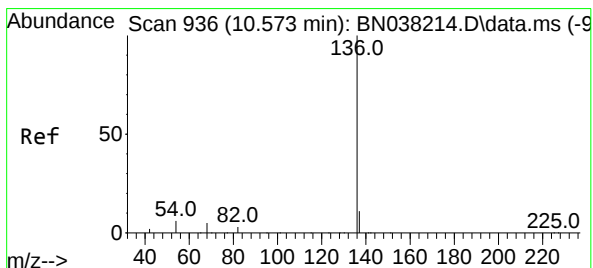
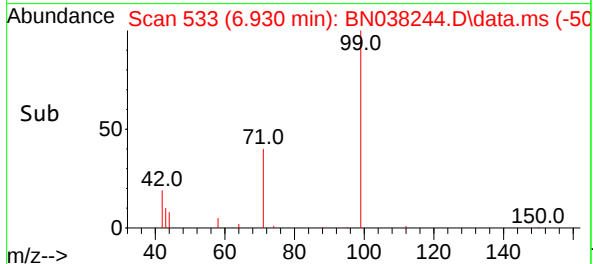
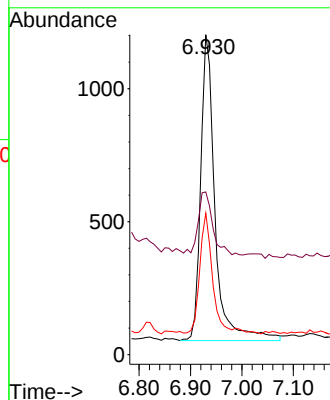
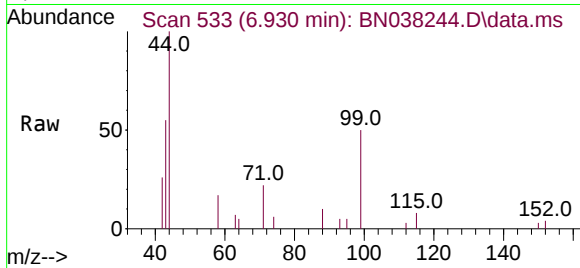




#5  
Phenol-d6  
Concen: 0.098 ng  
RT: 6.930 min Scan# 531  
Delta R.T. -0.007 min  
Lab File: BN038244.D  
Acq: 02 Dec 2025 02:19

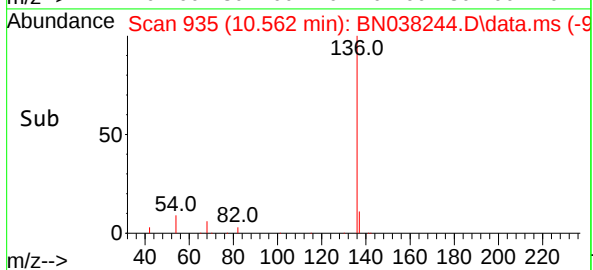
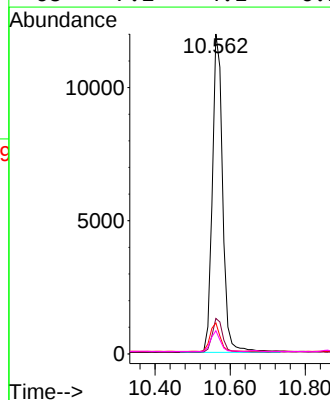
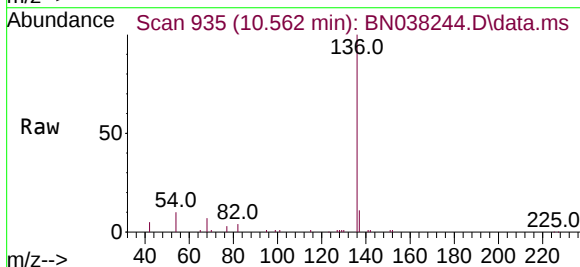
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RW7-SP303-20251118

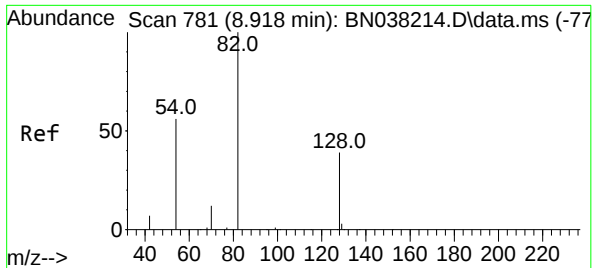
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 99    | Resp: | 2227  |
| Ion      | Ratio | Lower | Upper |
| 99       | 100   |       |       |
| 42       | 21.0  | 17.0  | 25.6  |
| 71       | 33.8  | 25.4  | 38.2  |



#7  
Naphthalene-d8  
Concen: 0.400 ng  
RT: 10.562 min Scan# 935  
Delta R.T. -0.011 min  
Lab File: BN038244.D  
Acq: 02 Dec 2025 02:19

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 136   | Resp: | 22916 |
| Ion      | Ratio | Lower | Upper |
| 136      | 100   |       |       |
| 137      | 11.1  | 8.9   | 13.3  |
| 54       | 9.7   | 5.4   | 8.0#  |
| 68       | 7.2   | 4.1   | 6.1#  |

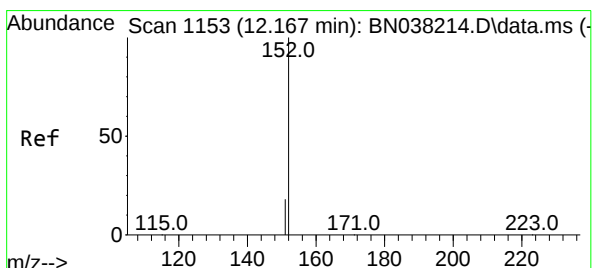
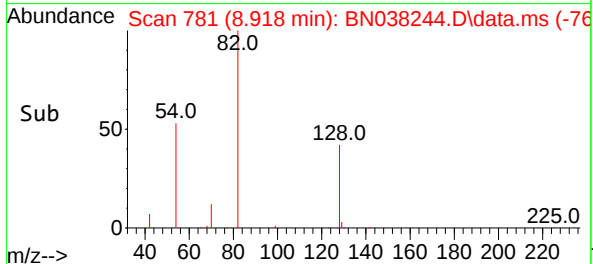
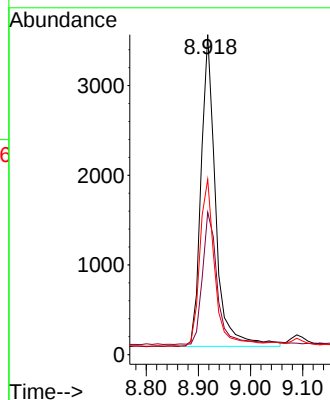
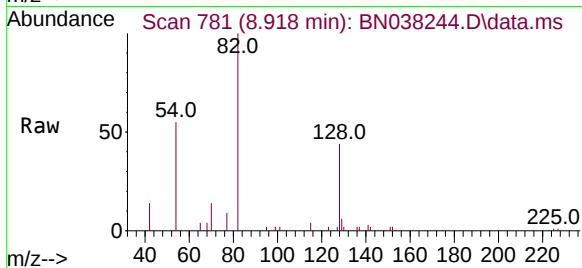




#8  
Nitrobenzene-d5  
Concen: 0.369 ng  
RT: 8.918 min Scan# 781  
Delta R.T. -0.000 min  
Lab File: BN038244.D  
Acq: 02 Dec 2025 02:19

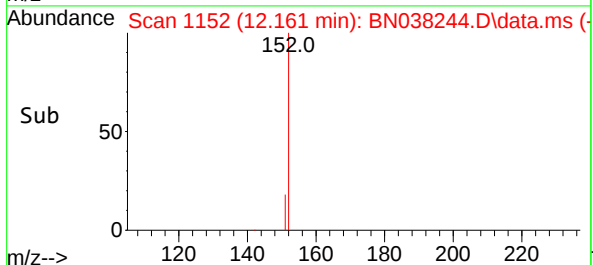
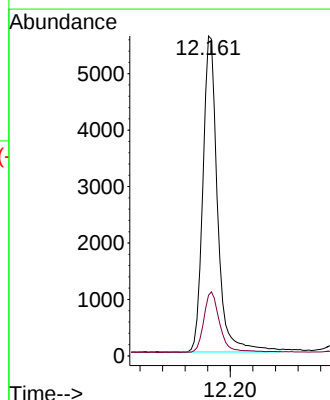
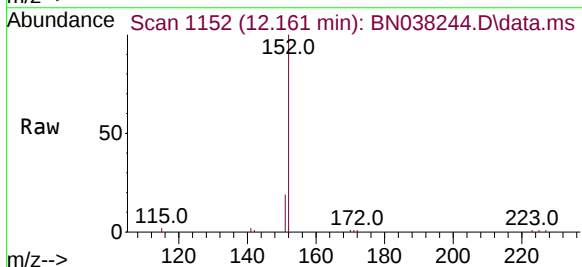
Instrument :  
BNA\_N  
ClientSampleId :  
RW7-SP303-20251118

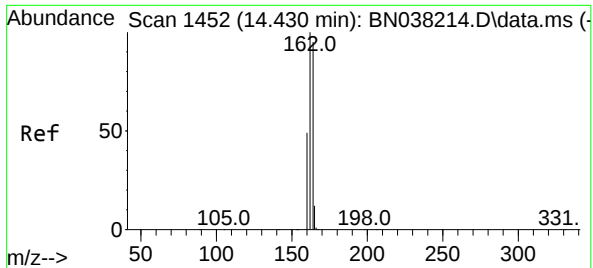
| Tgt Ion: | 82    | Resp: | 6764  |
|----------|-------|-------|-------|
| Ion      | Ratio | Lower | Upper |
| 82       | 100   |       |       |
| 128      | 44.5  | 32.6  | 48.8  |
| 54       | 54.8  | 45.4  | 68.0  |



#11  
2-Methylnaphthalene-d10  
Concen: 0.311 ng  
RT: 12.161 min Scan# 1152  
Delta R.T. -0.005 min  
Lab File: BN038244.D  
Acq: 02 Dec 2025 02:19

| Tgt Ion: | 152   | Resp: | 10111 |
|----------|-------|-------|-------|
| Ion      | Ratio | Lower | Upper |
| 152      | 100   |       |       |
| 151      | 20.9  | 16.7  | 25.1  |

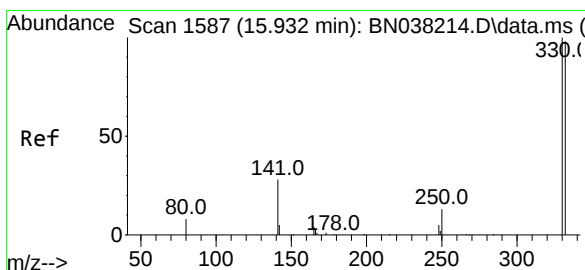
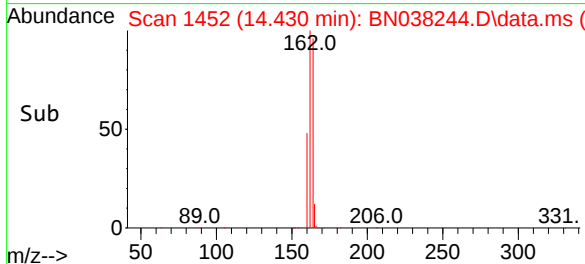
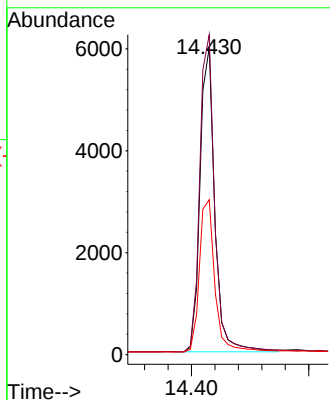
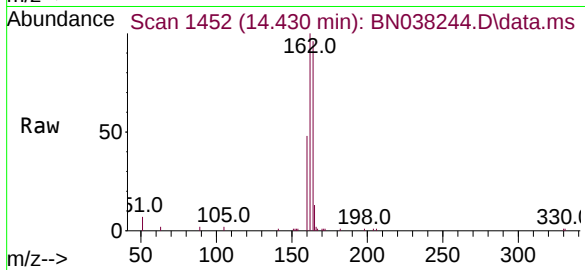




#13  
Acenaphthene-d10  
Concen: 0.400 ng  
RT: 14.430 min Scan# 1452  
Delta R.T. -0.000 min  
Lab File: BN038244.D  
Acq: 02 Dec 2025 02:19

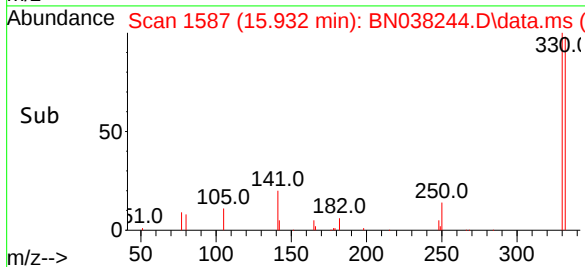
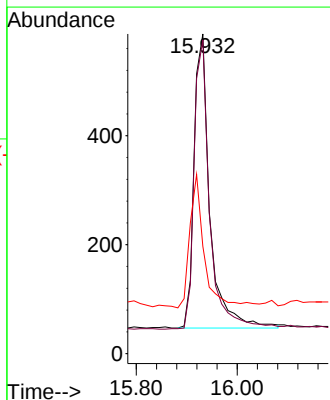
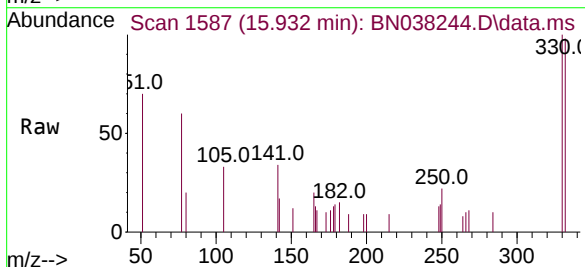
Instrument :  
BNA\_N  
ClientSampleId :  
RW7-SP303-20251118

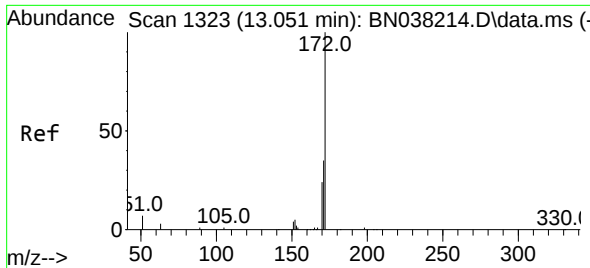
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 164     | 100   |       |       |
| 162     | 104.3 | 83.8  | 125.8 |
| 160     | 50.5  | 41.6  | 62.4  |



#14  
2,4,6-Tribromophenol  
Concen: 0.360 ng  
RT: 15.932 min Scan# 1587  
Delta R.T. -0.000 min  
Lab File: BN038244.D  
Acq: 02 Dec 2025 02:19

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 330     | 100   |       |       |
| 332     | 97.3  | 77.8  | 116.6 |
| 141     | 39.4  | 33.0  | 49.4  |

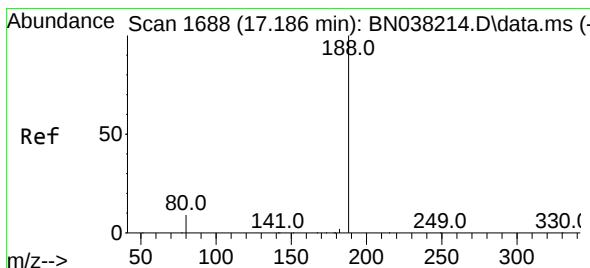
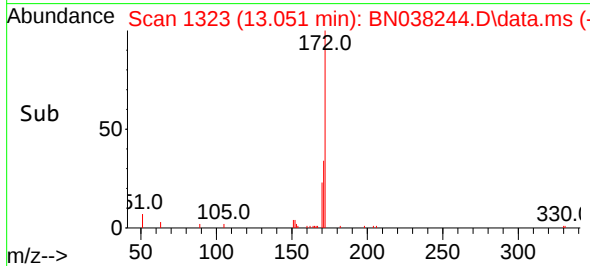
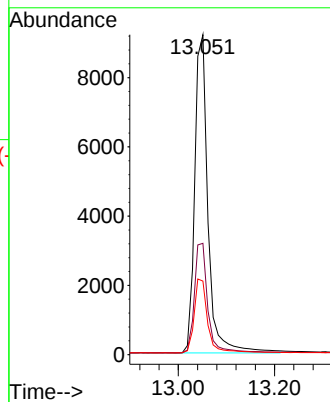
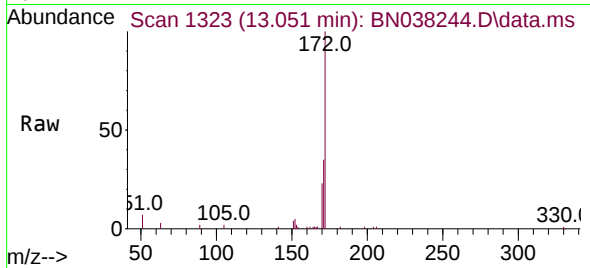




#15  
2-Fluorobiphenyl  
Concen: 0.426 ng  
RT: 13.051 min Scan# 1323  
Delta R.T. -0.000 min  
Lab File: BN038244.D  
Acq: 02 Dec 2025 02:19

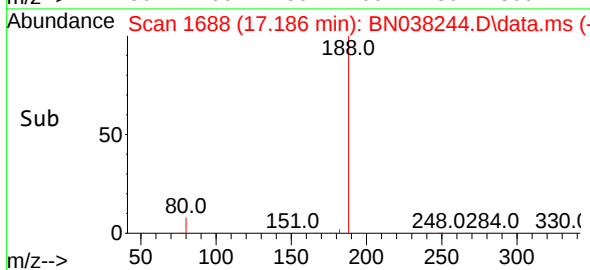
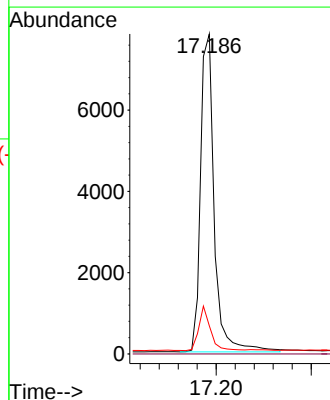
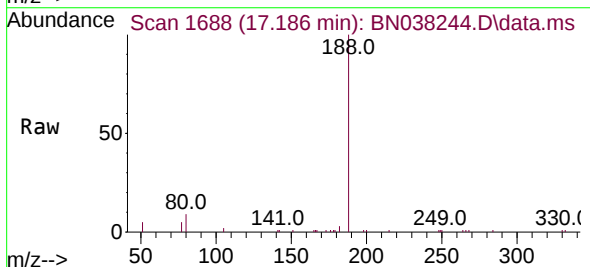
Instrument :  
BNA\_N  
ClientSampleId :  
RW7-SP303-20251118

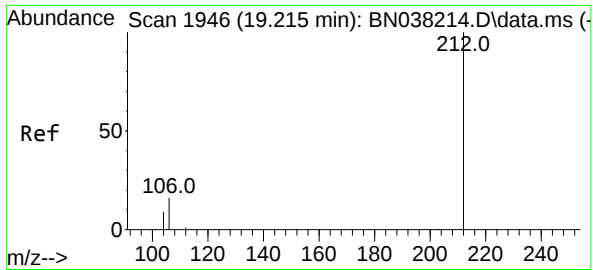
|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 172   | Resp: | 17093 |
| Ion Ratio | Lower | Upper |       |
| 172       | 100   |       |       |
| 171       | 34.8  | 28.1  | 42.1  |
| 170       | 23.0  | 19.1  | 28.7  |



#19  
Phenanthrene-d10  
Concen: 0.400 ng  
RT: 17.186 min Scan# 1688  
Delta R.T. -0.000 min  
Lab File: BN038244.D  
Acq: 02 Dec 2025 02:19

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 188   | Resp: | 15598 |
| Ion Ratio | Lower | Upper |       |
| 188       | 100   |       |       |
| 94        | 0.0   | 0.0   | 0.0   |
| 80        | 8.8   | 7.7   | 11.5  |





#27

Fluoranthene-d10

Concen: 0.463 ng

RT: 19.215 min Scan# 1946

Delta R.T. -0.000 min

Lab File: BN038244.D

Acq: 02 Dec 2025 02:19

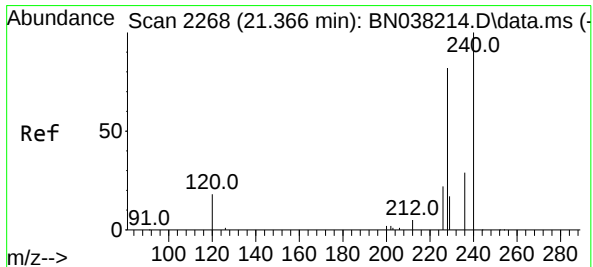
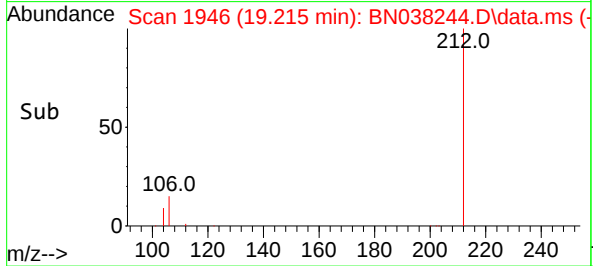
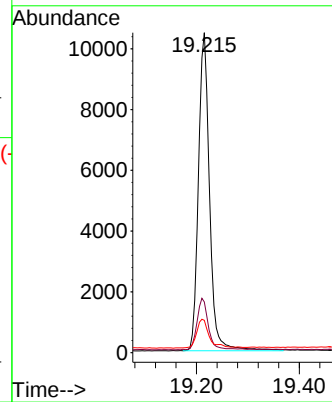
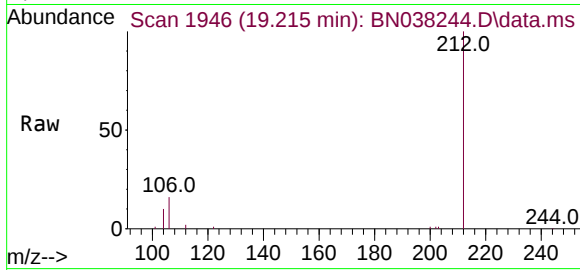
Instrument :

BNA\_N

ClientSampleId :

RW7-SP303-20251118

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 212   | Resp: | 15656 |
| Ion Ratio | Lower | Upper |       |
| 212       | 100   |       |       |
| 106       | 16.5  | 12.7  | 19.1  |
| 104       | 10.4  | 7.3   | 10.9  |



#29

Chrysene-d12

Concen: 0.400 ng

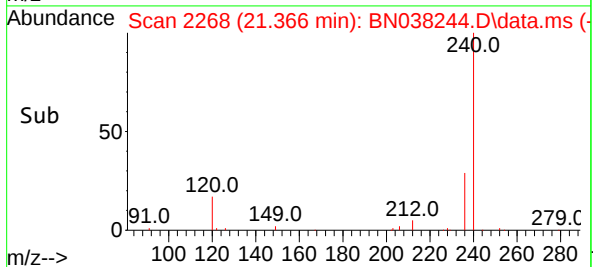
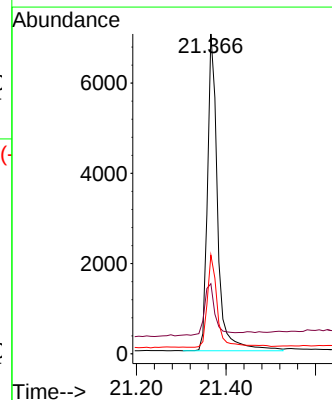
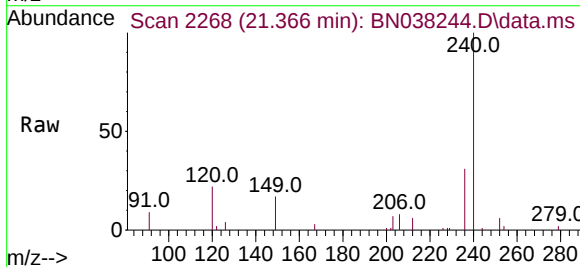
RT: 21.366 min Scan# 2268

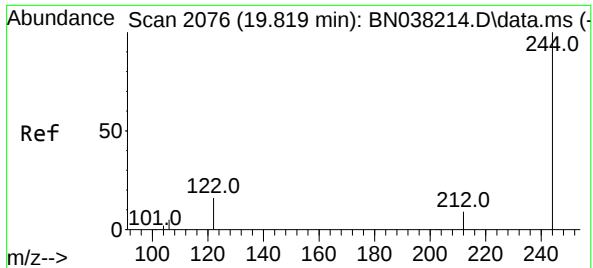
Delta R.T. -0.000 min

Lab File: BN038244.D

Acq: 02 Dec 2025 02:19

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 240   | Resp: | 11057 |
| Ion Ratio | Lower | Upper |       |
| 240       | 100   |       |       |
| 120       | 21.9  | 18.1  | 27.1  |
| 236       | 30.9  | 24.2  | 36.4  |

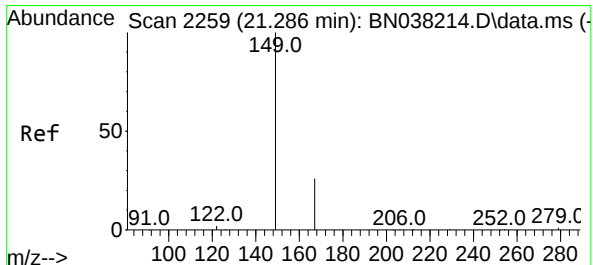
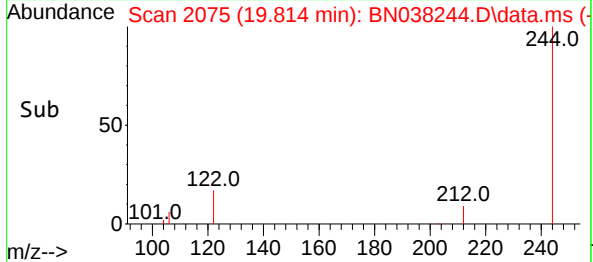
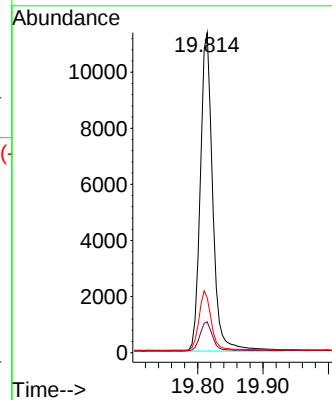
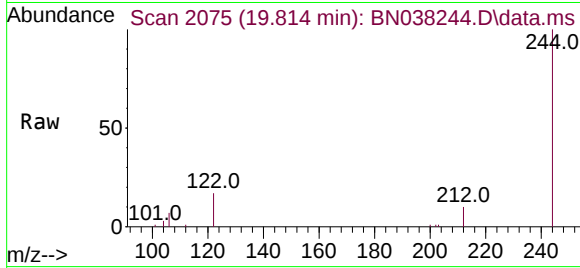




#31  
Terphenyl-d14  
Concen: 0.587 ng  
RT: 19.814 min Scan# 2076  
Delta R.T. -0.005 min  
Lab File: BN038244.D  
Acq: 02 Dec 2025 02:19

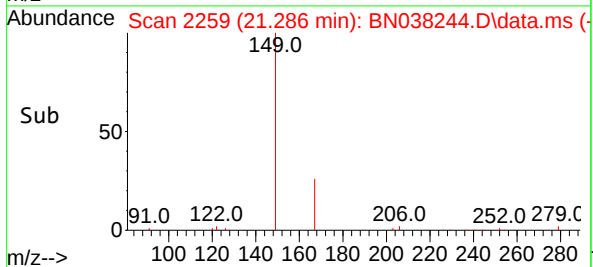
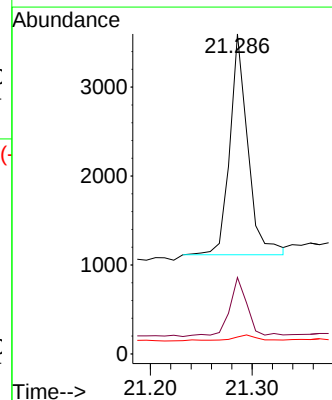
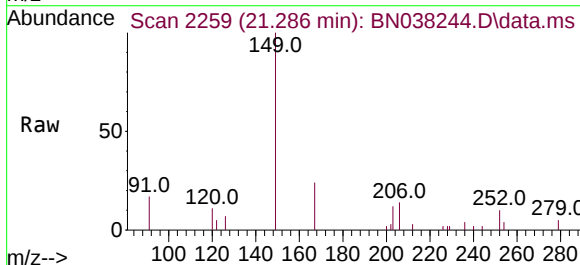
Instrument :  
BNA\_N  
ClientSampleId :  
RW7-SP303-20251118

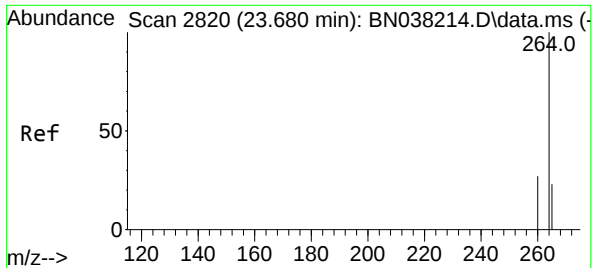
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 244     | 100   |       |       |
| 212     | 9.6   | 7.7   | 11.5  |
| 122     | 17.2  | 13.6  | 20.4  |



#34  
Bis(2-ethylhexyl)phthalate  
Concen: 0.150 ng  
RT: 21.286 min Scan# 2259  
Delta R.T. -0.000 min  
Lab File: BN038244.D  
Acq: 02 Dec 2025 02:19

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 149     | 100   |       |       |
| 167     | 27.0  | 20.7  | 31.1  |
| 279     | 2.8   | 2.5   | 3.7   |





#35

Perylene-d12

Concen: 0.400 ng

RT: 23.677 min Scan# 2819

Delta R.T. -0.003 min

Lab File: BN038244.D

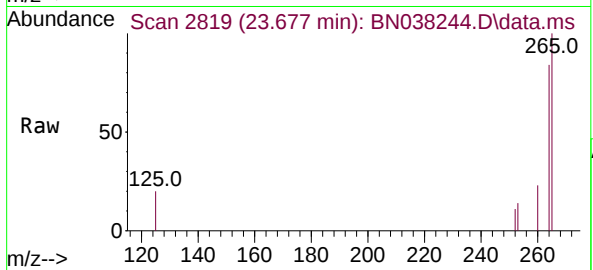
Acq: 02 Dec 2025 02:19

Instrument :

BNA\_N

ClientSampleId :

RW7-SP303-20251118



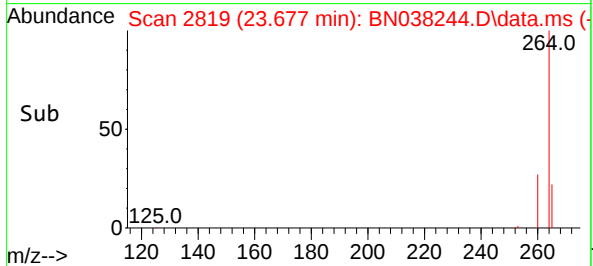
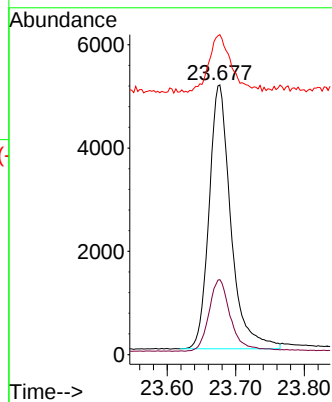
Tgt Ion:264 Resp: 11303

Ion Ratio Lower Upper

264 100

260 27.8 21.7 32.5

265 118.6 98.0 147.0





# CALIBRATION SUMMARY

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14
- 15
- 16
- 17
- 18

Method Path : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\  
Method File : 8270-SIM-BN112725.M  
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
Last Update : Fri Nov 28 21:04:10 2025  
Response Via : Initial Calibration

## Calibration Files

0.1 =BN038212.D 0.2 =BN038213.D 0.4 =BN038214.D 0.8 =BN038215.D 1.6 =BN038216.D 3.2 =BN038217.D 5 =BN038218.D

|           | Compound              | 0.1            | 0.2   | 0.4   | 0.8   | 1.6   | 3.2   | 5     | Avg   | %RSD |
|-----------|-----------------------|----------------|-------|-------|-------|-------|-------|-------|-------|------|
| 1) I      | 1,4-Dichlorobenzen... | -----ISTD----- |       |       |       |       |       |       |       |      |
| 2)        | 1,4-Dioxane           | 0.484          | 0.448 | 0.396 | 0.423 | 0.399 | 0.378 | 0.421 | 9.29  |      |
| 3)        | n-Nitrosodimet...     | 0.488          | 0.543 | 0.513 | 0.536 | 0.528 | 0.510 | 0.520 | 3.87  |      |
| 4) S      | 2-Fluorophenol        | 1.008          | 0.930 | 0.992 | 0.881 | 0.925 | 0.915 | 0.892 | 0.935 | 5.14 |
| 5) S      | Phenol-d6             | 1.180          | 1.103 | 1.215 | 1.099 | 1.187 | 1.203 | 1.191 | 1.168 | 4.05 |
| 6)        | bis(2-Chloroet...     | 1.066          | 1.118 | 1.188 | 1.086 | 1.152 | 1.130 | 1.088 | 1.118 | 3.79 |
| 7) I      | Naphthalene-d8        | -----ISTD----- |       |       |       |       |       |       |       |      |
| 8) S      | Nitrobenzene-d5       | 0.370          | 0.314 | 0.310 | 0.304 | 0.321 | 0.309 | 0.311 | 0.320 | 7.07 |
| 9)        | Naphthalene           | 1.152          | 1.102 | 1.153 | 1.075 | 1.118 | 1.093 | 1.082 | 1.111 | 2.87 |
| 10)       | Hexachlorobuta...     | 0.203          | 0.192 | 0.200 | 0.182 | 0.188 | 0.180 | 0.177 | 0.189 | 5.29 |
| 11) SURR2 | Methylnaphth...       | 0.535          | 0.548 | 0.588 | 0.558 | 0.584 | 0.584 | 0.579 | 0.568 | 3.70 |
| 12)       | 2-Methylnaphth...     | 0.696          | 0.697 | 0.760 | 0.718 | 0.754 | 0.750 | 0.741 | 0.731 | 3.68 |
| 13) I     | Acenaphthene-d10      | -----ISTD----- |       |       |       |       |       |       |       |      |
| 14) S     | 2,4,6-Tribromo...     | 0.106          | 0.100 | 0.123 | 0.122 | 0.139 | 0.165 | 0.126 | 18.76 |      |
| 15) S     | 2-Fluorobiphenyl      | 1.620          | 1.549 | 1.590 | 1.546 | 1.578 | 1.474 | 1.459 | 1.545 | 3.85 |
| 16)       | Acenaphthylene        | 1.756          | 1.685 | 1.801 | 1.702 | 1.830 | 1.866 | 1.880 | 1.789 | 4.31 |
| 17)       | Acenaphthene          | 1.244          | 1.208 | 1.292 | 1.198 | 1.263 | 1.262 | 1.261 | 1.247 | 2.66 |
| 18)       | Fluorene              | 1.544          | 1.442 | 1.650 | 1.571 | 1.680 | 1.708 | 1.703 | 1.614 | 6.13 |
| 19) I     | Phenanthrene-d10      | -----ISTD----- |       |       |       |       |       |       |       |      |
| 20)       | 4,6-Dinitro-2-...     | 0.021          | 0.026 | 0.031 | 0.044 | 0.059 | 0.071 | 0.042 | 46.82 |      |
| 21)       | 4-Bromophenyl-...     | 0.268          | 0.268 | 0.285 | 0.268 | 0.287 | 0.284 | 0.280 | 0.277 | 3.19 |
| 22)       | Hexachlorobenzene     | 0.377          | 0.366 | 0.358 | 0.320 | 0.337 | 0.319 | 0.307 | 0.341 | 7.87 |
| 23)       | Atrazine              | 0.165          | 0.157 | 0.175 | 0.164 | 0.181 | 0.198 | 0.200 | 0.177 | 9.46 |
| 24)       | Pentachlorophenol     | 0.090          | 0.084 | 0.080 | 0.096 | 0.117 | 0.093 | 15.54 |       |      |
| 25)       | Phenanthrene          | 1.247          | 1.207 | 1.311 | 1.202 | 1.270 | 1.293 | 1.259 | 1.256 | 3.24 |
| 26)       | Anthracene            | 0.996          | 0.998 | 1.068 | 1.016 | 1.100 | 1.156 | 1.166 | 1.071 | 6.73 |
| 27) SURR  | Fluoranthene-d10      | 0.853          | 0.845 | 0.890 | 0.817 | 0.864 | 0.906 | 0.900 | 0.868 | 3.76 |
| 28)       | Fluoranthene          | 1.174          | 1.147 | 1.227 | 1.146 | 1.230 | 1.281 | 1.266 | 1.210 | 4.55 |
| 29) I     | Chrysene-d12          | -----ISTD----- |       |       |       |       |       |       |       |      |
| 30)       | Pyrene                | 2.066          | 1.804 | 2.087 | 1.972 | 1.973 | 2.077 | 2.006 | 1.998 | 4.91 |
| 31) S     | Terphenyl-d14         | 0.903          | 0.847 | 0.962 | 0.906 | 0.927 | 0.972 | 0.949 | 0.924 | 4.65 |
| 32)       | Benzo(a)anthra...     | 1.321          | 1.271 | 1.368 | 1.320 | 1.373 | 1.421 | 1.409 | 1.355 | 3.94 |
| 33)       | Chrysene              | 1.742          | 1.639 | 1.661 | 1.517 | 1.597 | 1.541 | 1.494 | 1.599 | 5.53 |
| 34)       | Bis(2-ethylhex...     | 0.780          | 0.801 | 0.700 | 0.682 | 0.740 | 0.746 | 0.742 | 6.12  |      |
| 35) I     | Perylene-d12          | -----ISTD----- |       |       |       |       |       |       |       |      |

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

Method File : 8270-SIM-BN112725.M

|       |                   |       |       |       |       |       |       |       |       |      |
|-------|-------------------|-------|-------|-------|-------|-------|-------|-------|-------|------|
| 36)   | Indeno(1,2,3-c... | 1.747 | 1.715 | 1.875 | 1.736 | 1.962 | 1.963 | 1.960 | 1.851 | 6.24 |
| 37)   | Benzo(b)fluora... | 1.563 | 1.555 | 1.703 | 1.586 | 1.675 | 1.721 | 1.690 | 1.642 | 4.32 |
| 38)   | Benzo(k)fluora... | 1.627 | 1.639 | 1.758 | 1.658 | 1.749 | 1.776 | 1.742 | 1.707 | 3.69 |
| 39) C | Benzo(a)pyrene    | 1.414 | 1.284 | 1.386 | 1.316 | 1.403 | 1.414 | 1.417 | 1.376 | 3.93 |
| 40)   | Dibenzo(a,h)an... | 1.264 | 1.234 | 1.379 | 1.349 | 1.512 | 1.541 | 1.531 | 1.401 | 9.14 |
| 41)   | Benzo(g,h,i)pe... | 1.722 | 1.586 | 1.721 | 1.617 | 1.720 | 1.687 | 1.670 | 1.674 | 3.25 |

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

Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN112725\  
 Data File : BN038212.D  
 Acq On : 26 Nov 2025 20:35  
 Operator : RC/JU  
 Sample : SSTDICC0.1  
 Misc :  
 ALS Vial : 12 Sample Multiplier: 1

## Instrument :

BNA\_N

## ClientSampleId :

SSTDICC0.1

## Manual Integrations

## APPROVED

Reviewed By :Jagrut Upadhyay 12/02/2025  
 Supervised By :mohammad ahmed 12/03/2025

Quant Time: Nov 28 20:54:05 2025

Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\8270-SIM-BN112725.M

Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

QLast Update : Fri Nov 28 20:22:09 2025

Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc  | Units | Dev(Min)  |
|-------------------------------|--------|------|----------|-------|-------|-----------|
| Internal Standards            |        |      |          |       |       |           |
| 1) 1,4-Dichlorobenzene-d4     | 7.768  | 152  | 8004     | 0.400 | ng    | 0.00      |
| 7) Naphthalene-d8             | 10.573 | 136  | 24261    | 0.400 | ng    | 0.00      |
| 13) Acenaphthene-d10          | 14.430 | 164  | 13487    | 0.400 | ng    | 0.00      |
| 19) Phenanthrene-d10          | 17.186 | 188  | 22239    | 0.400 | ng    | 0.00      |
| 29) Chrysene-d12              | 21.375 | 240  | 12844    | 0.400 | ng    | # 0.00    |
| 35) Perylene-d12              | 23.683 | 264  | 12898    | 0.400 | ng    | 0.00      |
| System Monitoring Compounds   |        |      |          |       |       |           |
| 4) 2-Fluorophenol             | 5.341  | 112  | 2018     | 0.108 | ng    | 0.00      |
| 5) Phenol-d6                  | 6.937  | 99   | 2361     | 0.101 | ng    | 0.00      |
| 8) Nitrobenzene-d5            | 8.929  | 82   | 2243     | 0.116 | ng    | 0.01      |
| 11) 2-Methylnaphthalene-d10   | 12.172 | 152  | 3243     | 0.094 | ng    | 0.00      |
| 14) 2,4,6-Tribromophenol      | 15.945 | 330  | 357      | 0.084 | ng    | 0.01      |
| 15) 2-Fluorobiphenyl          | 13.062 | 172  | 5461     | 0.105 | ng    | 0.01      |
| 27) Fluoranthene-d10          | 19.220 | 212  | 4740     | 0.098 | ng    | 0.00      |
| 31) Terphenyl-d14             | 19.819 | 244  | 2901     | 0.098 | ng    | 0.00      |
| Target Compounds              |        |      |          |       |       |           |
| 6) bis(2-Chloroethyl)ether    | 7.190  | 93   | 2134     | 0.095 | ng    | Qvalue 95 |
| 9) Naphthalene                | 10.616 | 128  | 6988     | 0.104 | ng    | 96        |
| 10) Hexachlorobutadiene       | 10.915 | 225  | 1231     | 0.107 | ng    | # 97      |
| 12) 2-Methylnaphthalene       | 12.248 | 142  | 4222     | 0.095 | ng    | 97        |
| 16) Acenaphthylene            | 14.152 | 152  | 5921     | 0.098 | ng    | 100       |
| 17) Acenaphthene              | 14.495 | 154  | 4196     | 0.100 | ng    | 97        |
| 18) Fluorene                  | 15.489 | 166  | 5207     | 0.096 | ng    | 100       |
| 21) 4-Bromophenyl-phenylether | 16.379 | 248  | 1492     | 0.097 | ng    | # 77      |
| 22) Hexachlorobenzene         | 16.491 | 284  | 2097     | 0.111 | ng    | 98        |
| 23) Atrazine                  | 16.652 | 200  | 918      | 0.093 | ng    | # 89      |
| 25) Phenanthrene              | 17.223 | 178  | 6934     | 0.099 | ng    | 99        |
| 26) Anthracene                | 17.322 | 178  | 5536     | 0.093 | ng    | 100       |
| 28) Fluoranthene              | 19.253 | 202  | 6527     | 0.097 | ng    | 99        |
| 30) Pyrene                    | 19.610 | 202  | 6634     | 0.103 | ng    | 100       |
| 32) Benzo(a)anthracene        | 21.358 | 228  | 4241     | 0.097 | ng    | 97        |
| 33) Chrysene                  | 21.411 | 228  | 5593     | 0.109 | ng    | 98        |
| 36) Indeno(1,2,3-cd)pyrene    | 26.045 | 276  | 5633     | 0.094 | ng    | # 92      |
| 37) Benzo(b)fluoranthene      | 22.987 | 252  | 5040     | 0.095 | ng    | # 56      |
| 38) Benzo(k)fluoranthene      | 23.031 | 252  | 5245     | 0.095 | ng    | # 63      |
| 39) Benzo(a)pyrene            | 23.587 | 252  | 4558     | 0.103 | ng    | # 40      |
| 40) Dibenzo(a,h)anthracene    | 26.069 | 278  | 4077     | 0.090 | ng    | # 68      |
| 41) Benzo(g,h,i)perylene      | 26.753 | 276  | 5553m    | 0.103 | ng    |           |

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

Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN112725\  
Data File : BN038212.D  
Acq On : 26 Nov 2025 20:35  
Operator : RC/JU  
Sample : SSTDICC0.1  
Misc :  
ALS Vial : 12 Sample Multiplier: 1

## Instrument :

BNA\_N

## ClientSampleId :

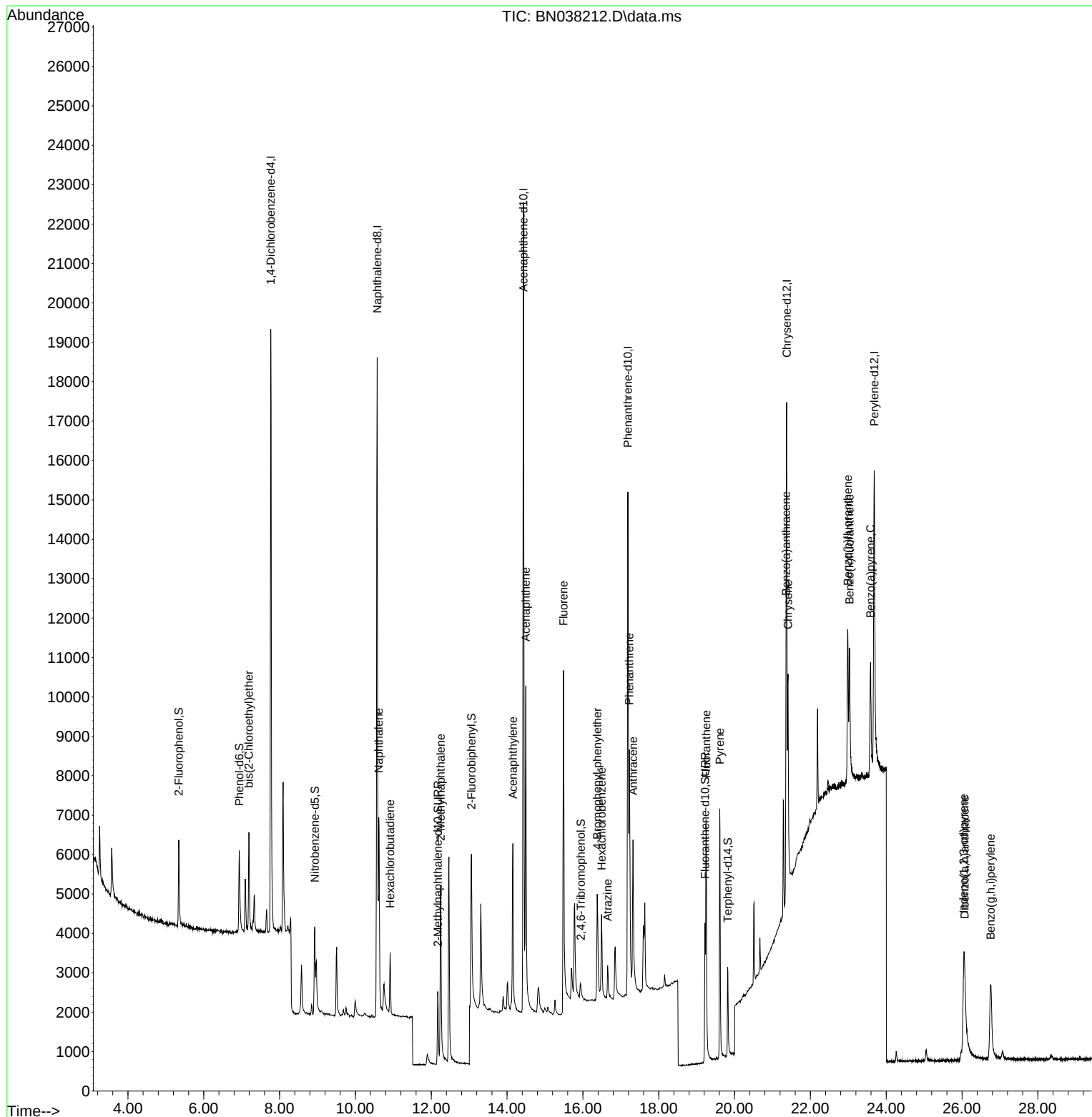
SSTDICC0.1

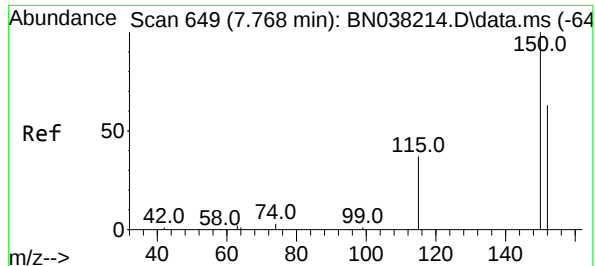
## Manual Integrations

## APPROVED

Reviewed By :Jagrut Upadhyay 12/02/2025  
Supervised By :mohammad ahmed 12/03/2025

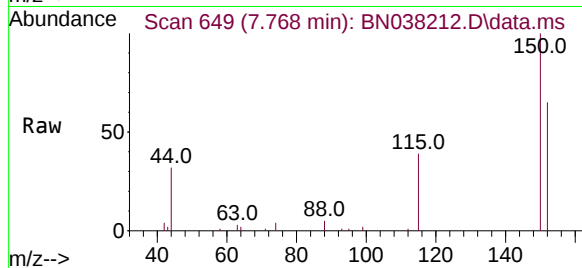
Quant Time: Nov 28 20:54:05 2025  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\8270-SIM-BN112725.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Fri Nov 28 20:22:09 2025  
Response via : Initial Calibration





#1  
1,4-Dichlorobenzene-d4  
Concen: 0.400 ng  
RT: 7.768 min Scan# 64  
Delta R.T. -0.000 min  
Lab File: BN038212.D  
Acq: 26 Nov 2025 20:35

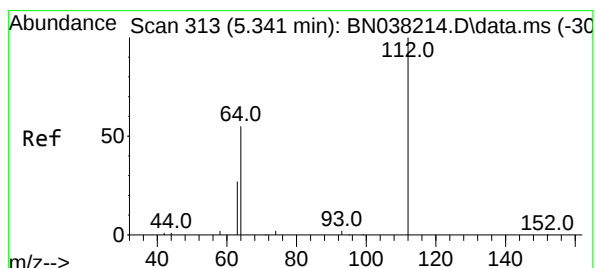
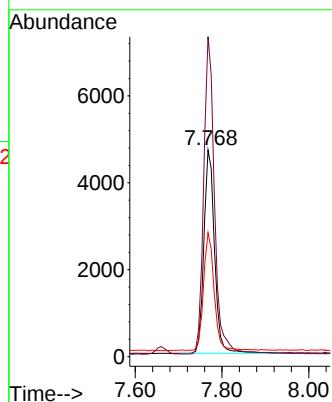
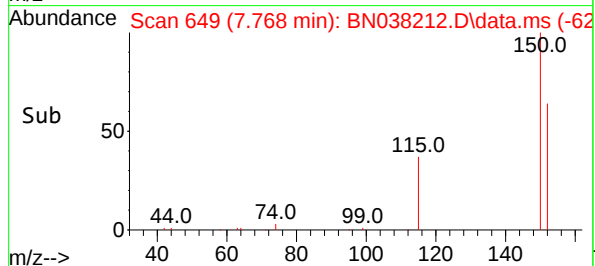
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC0.1



Tgt Ion:152 Resp: 8004  
Ion Ratio Lower Upper  
152 100  
150 155.0 125.3 187.9  
115 60.0 49.0 73.4

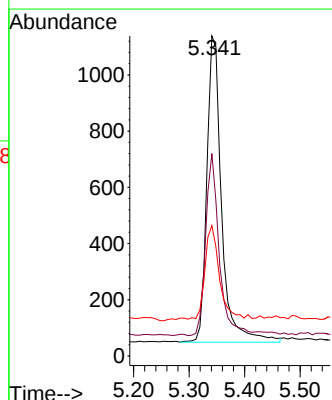
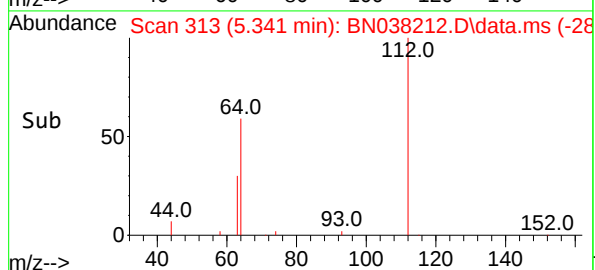
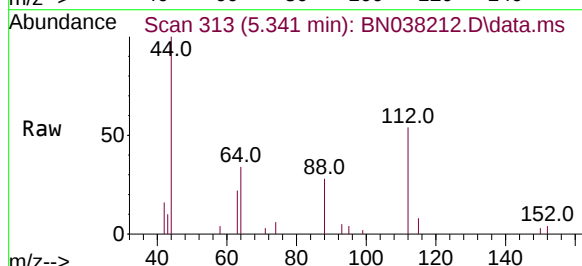
Manual Integrations  
APPROVED

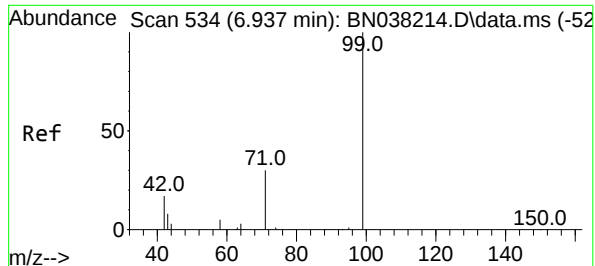
Reviewed By :Jagrut Upadhyay 12/02/2025  
Supervised By :mohammad ahmed 12/03/2025



#4  
2-Fluorophenol  
Concen: 0.108 ng  
RT: 5.341 min Scan# 313  
Delta R.T. 0.000 min  
Lab File: BN038212.D  
Acq: 26 Nov 2025 20:35

Tgt Ion:112 Resp: 2018  
Ion Ratio Lower Upper  
112 100  
64 54.6 45.0 67.4  
63 29.6 23.2 34.8





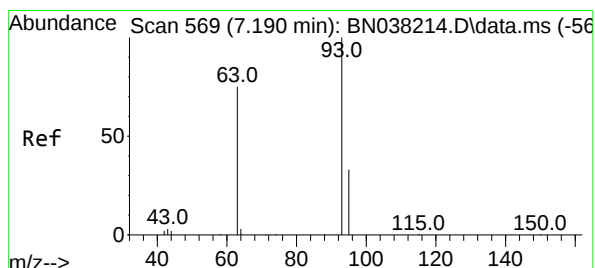
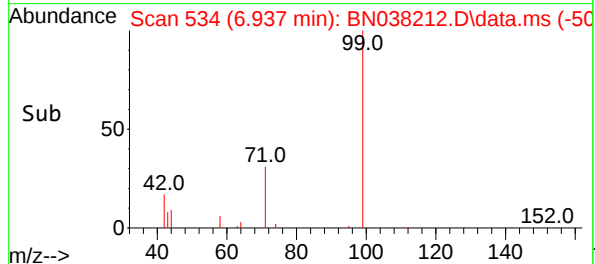
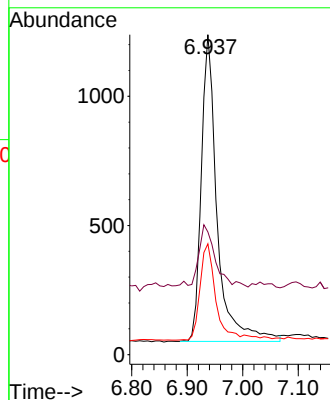
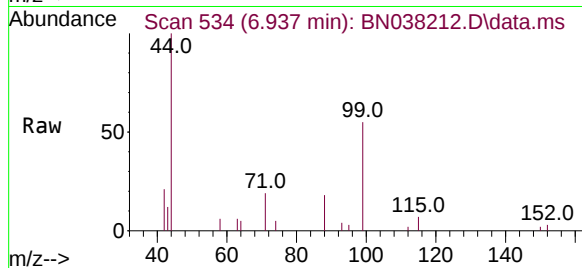
#5  
Phenol-d6  
Concen: 0.101 ng  
RT: 6.937 min Scan# 534  
Delta R.T. 0.000 min  
Lab File: BN038212.D  
Acq: 26 Nov 2025 20:35

Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC0.1

Tgt Ion: 99 Resp: 236  
Ion Ratio Lower Upper  
99 100  
42 23.7 17.0 25.6  
71 32.5 25.4 38.2

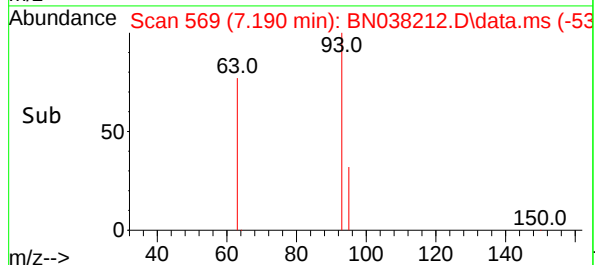
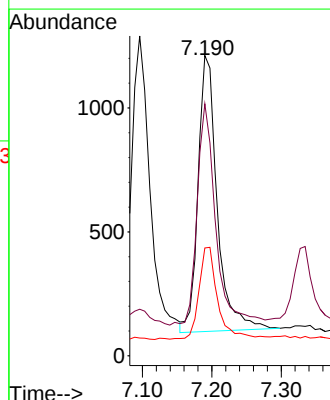
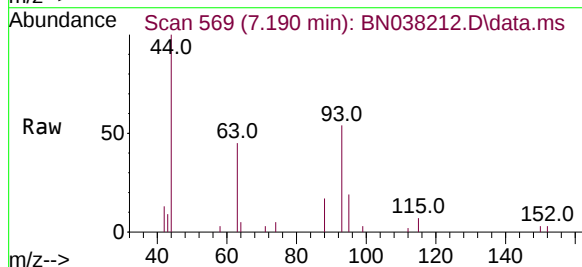
Manual Integrations  
APPROVED

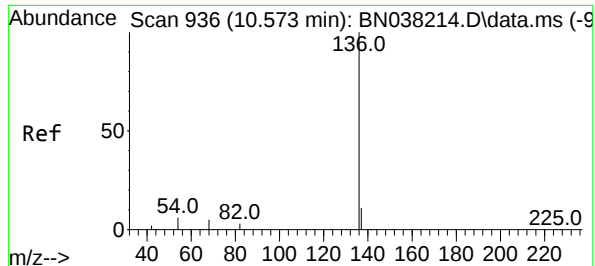
Reviewed By :Jagrut Upadhyay 12/02/2025  
Supervised By :mohammad ahmed 12/03/2025



#6  
bis(2-Chloroethyl)ether  
Concen: 0.095 ng  
RT: 7.190 min Scan# 569  
Delta R.T. 0.000 min  
Lab File: BN038212.D  
Acq: 26 Nov 2025 20:35

Tgt Ion: 93 Resp: 2134  
Ion Ratio Lower Upper  
93 100  
63 78.2 58.1 87.1  
95 32.9 25.1 37.7





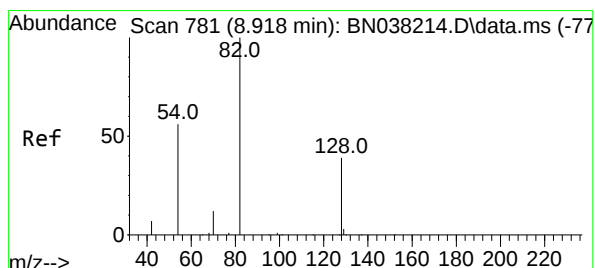
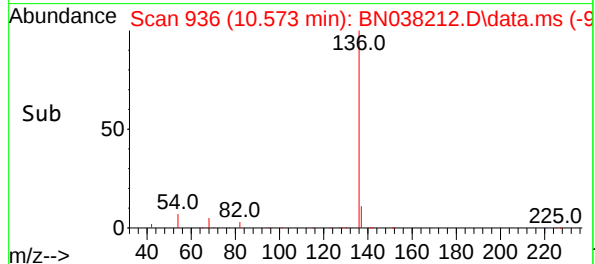
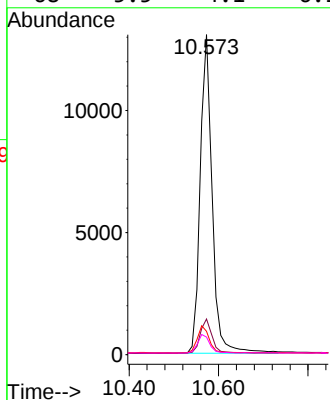
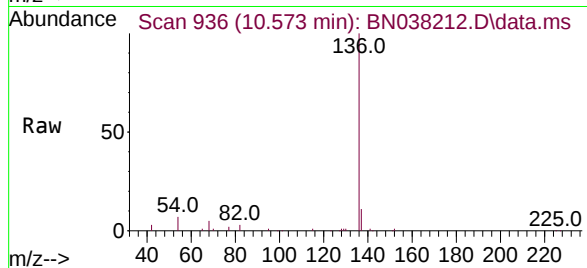
#7  
Naphthalene-d8  
Concen: 0.400 ng  
RT: 10.573 min Scan# 936  
Delta R.T. 0.000 min  
Lab File: BN038212.D  
Acq: 26 Nov 2025 20:35

Instrument :  
BNA\_N  
Client SampleId :  
SSTDIC0.1

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 136     | 100   |       |       |
| 137     | 11.1  | 8.9   | 13.3  |
| 54      | 7.3   | 5.4   | 8.0   |
| 68      | 5.5   | 4.1   | 6.1   |

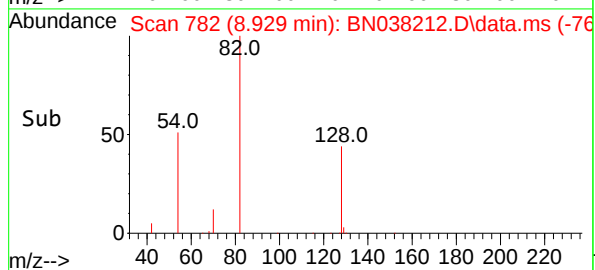
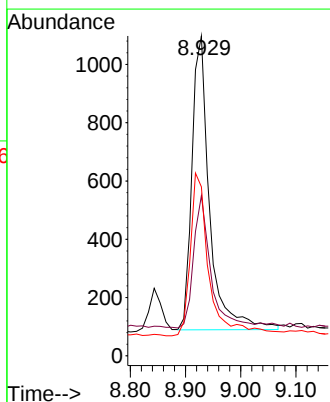
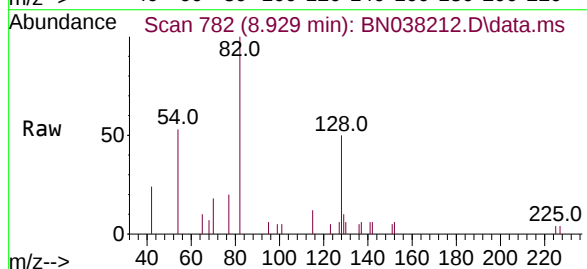
Manual Integrations  
APPROVED

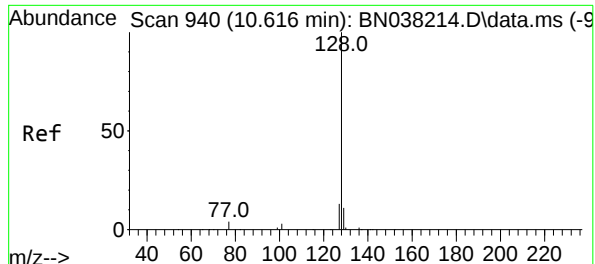
Reviewed By :Jagrut Upadhyay 12/02/2025  
Supervised By :mohammad ahmed 12/03/2025



#8  
Nitrobenzene-d5  
Concen: 0.116 ng  
RT: 8.929 min Scan# 782  
Delta R.T. 0.011 min  
Lab File: BN038212.D  
Acq: 26 Nov 2025 20:35

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 82      | 100   |       |       |
| 128     | 50.1  | 32.6  | 48.8  |
| 54      | 52.8  | 45.4  | 68.0  |





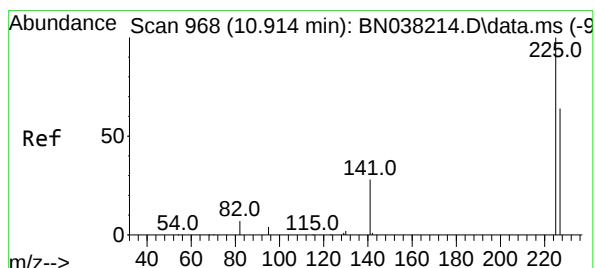
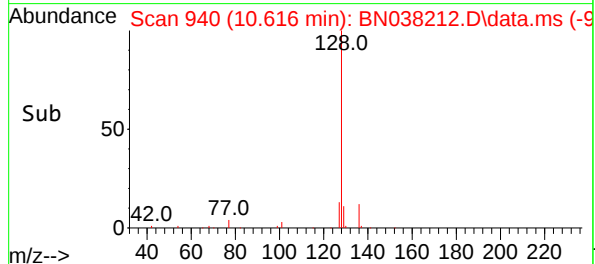
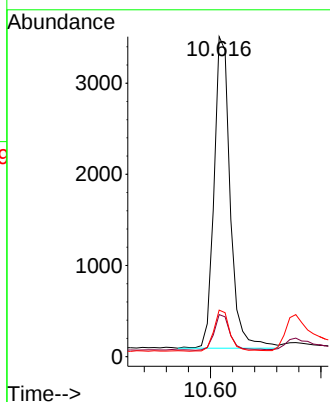
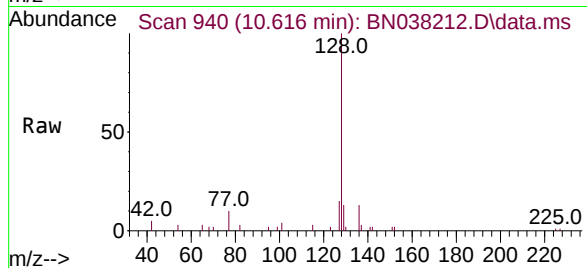
#9  
Naphthalene  
Concen: 0.104 ng  
RT: 10.616 min Scan# 940  
Delta R.T. 0.000 min  
Lab File: BN038212.D  
Acq: 26 Nov 2025 20:35

Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC0.1

Tgt Ion:128 Resp: 6988  
Ion Ratio Lower Upper  
128 100  
129 13.1 9.1 13.7  
127 14.6 10.6 16.0

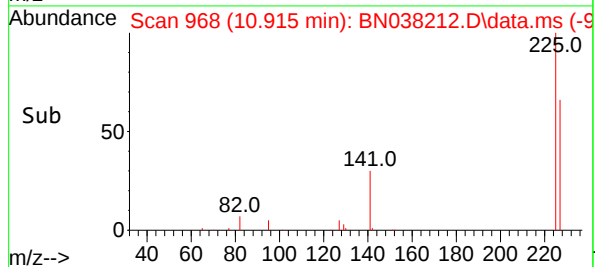
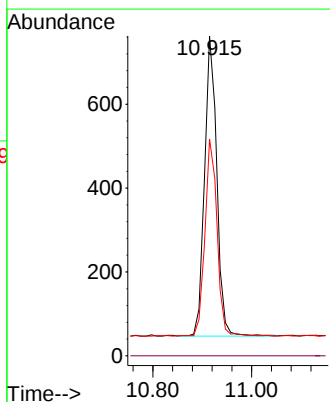
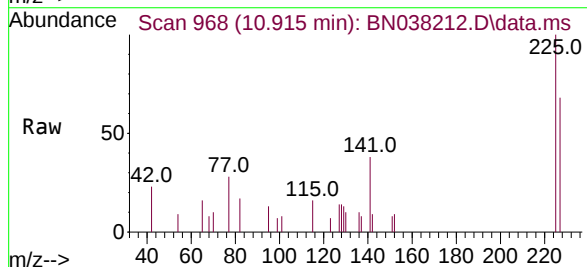
Manual Integrations  
APPROVED

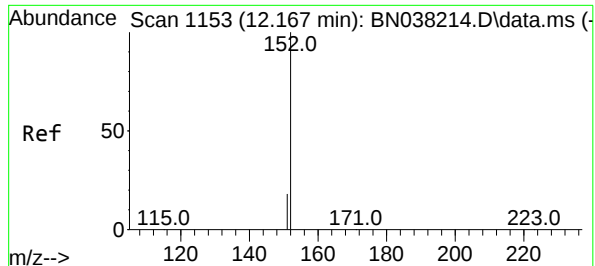
Reviewed By :Jagrut Upadhyay 12/02/2025  
Supervised By :mohammad ahmed 12/03/2025



#10  
Hexachlorobutadiene  
Concen: 0.107 ng  
RT: 10.915 min Scan# 968  
Delta R.T. 0.000 min  
Lab File: BN038212.D  
Acq: 26 Nov 2025 20:35

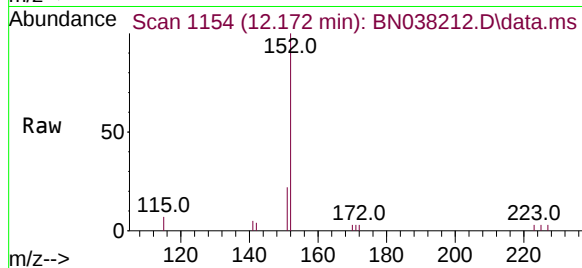
Tgt Ion:225 Resp: 1231  
Ion Ratio Lower Upper  
225 100  
223 0.0 0.0 0.0  
227 65.1 50.5 75.7





#11  
2-Methylnaphthalene-d10  
Concen: 0.094 ng  
RT: 12.172 min Scan# 1154  
Delta R.T. 0.005 min  
Lab File: BN038212.D  
Acq: 26 Nov 2025 20:35

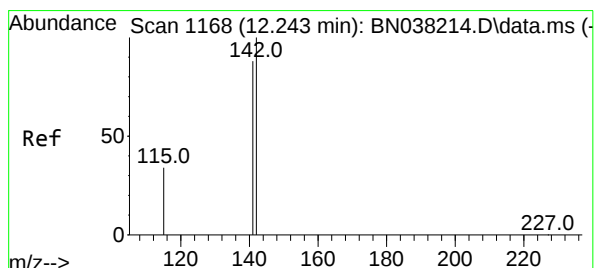
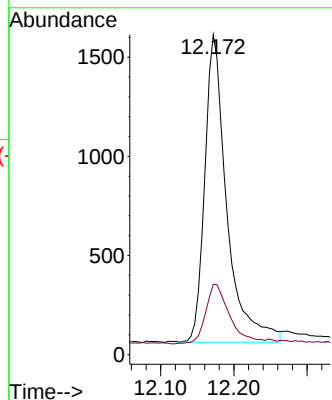
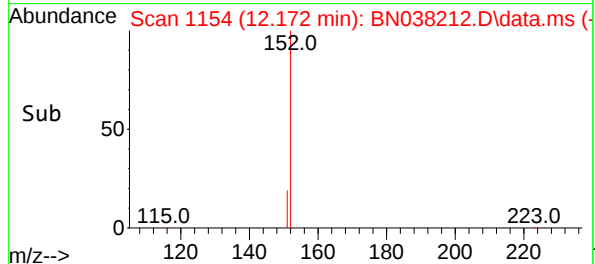
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC0.1



Tgt Ion:152 Resp: 3243  
Ion Ratio Lower Upper  
152 100  
151 21.4 16.7 25.1

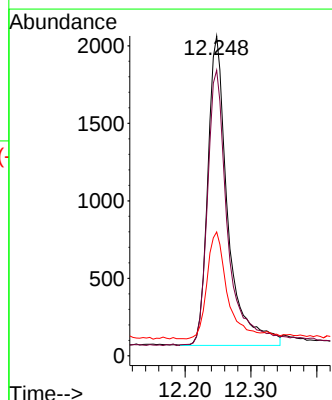
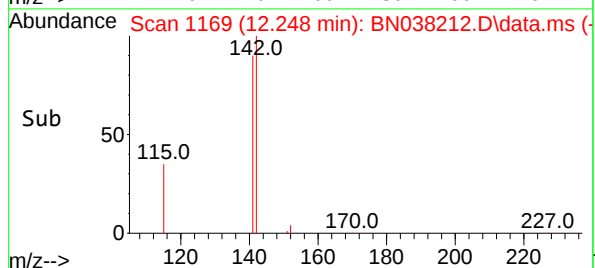
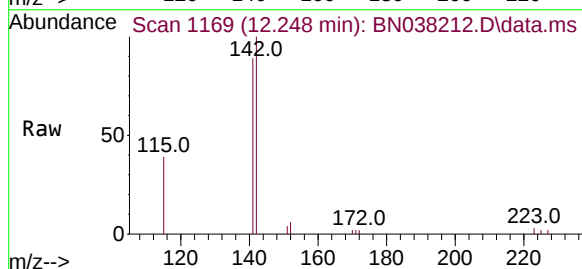
Manual Integrations  
APPROVED

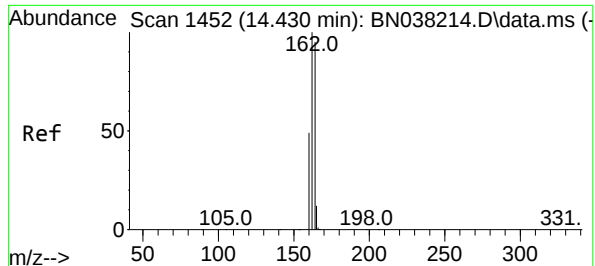
Reviewed By :Jagrut Upadhyay 12/02/2025  
Supervised By :mohammad ahmed 12/03/2025



#12  
2-Methylnaphthalene  
Concen: 0.095 ng  
RT: 12.248 min Scan# 1169  
Delta R.T. 0.005 min  
Lab File: BN038212.D  
Acq: 26 Nov 2025 20:35

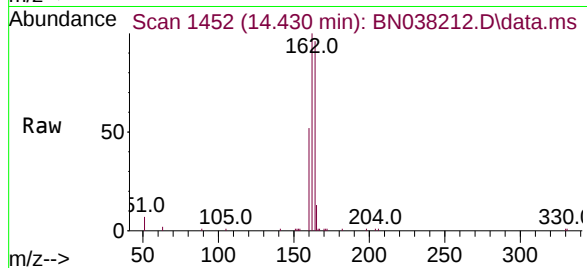
Tgt Ion:142 Resp: 4222  
Ion Ratio Lower Upper  
142 100  
141 89.3 70.9 106.3  
115 38.7 27.7 41.5





#13  
Acenaphthene-d10  
Concen: 0.400 ng  
RT: 14.430 min Scan# 1452  
Delta R.T. 0.000 min  
Lab File: BN038212.D  
Acq: 26 Nov 2025 20:35

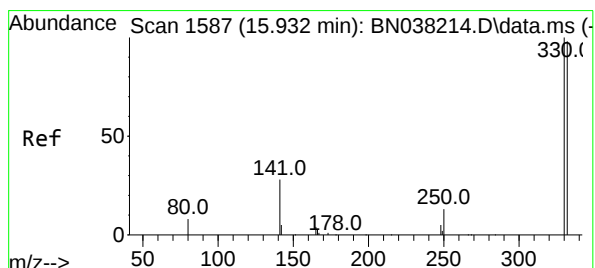
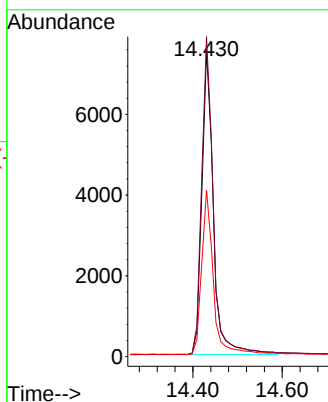
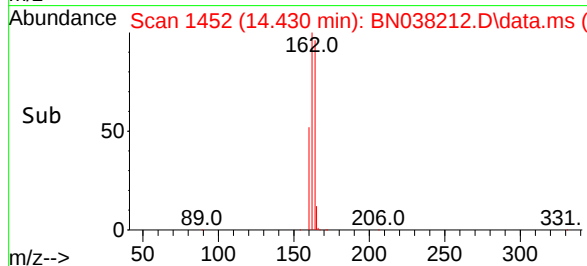
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDIC0.1



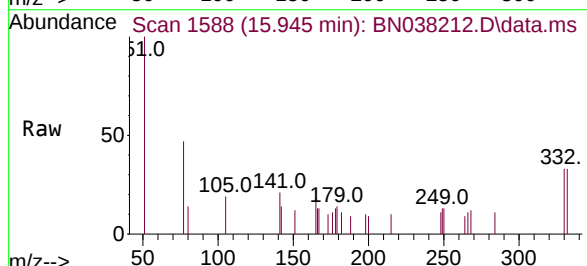
Tgt Ion:164 Resp: 1348  
Ion Ratio Lower Upper  
164 100  
162 104.5 83.8 125.8  
160 54.4 41.6 62.4

Manual Integrations  
APPROVED

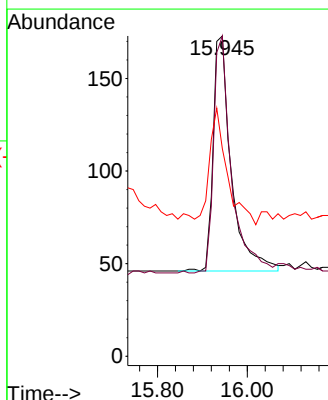
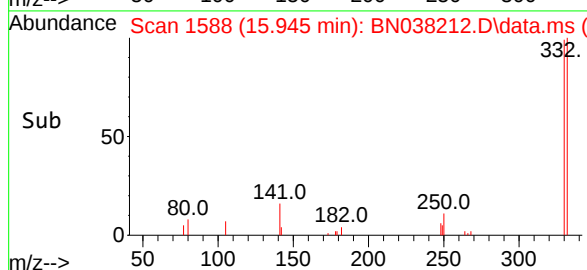
Reviewed By :Jagrut Upadhyay 12/02/2025  
Supervised By :mohammad ahmed 12/03/2025

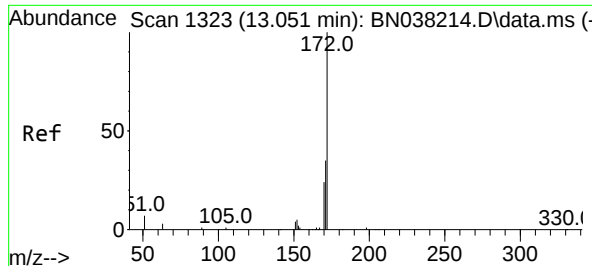


#14  
2,4,6-Tribromophenol  
Concen: 0.084 ng  
RT: 15.945 min Scan# 1588  
Delta R.T. 0.013 min  
Lab File: BN038212.D  
Acq: 26 Nov 2025 20:35



Tgt Ion:330 Resp: 357  
Ion Ratio Lower Upper  
330 100  
332 98.6 77.8 116.6  
141 48.2 33.0 49.4





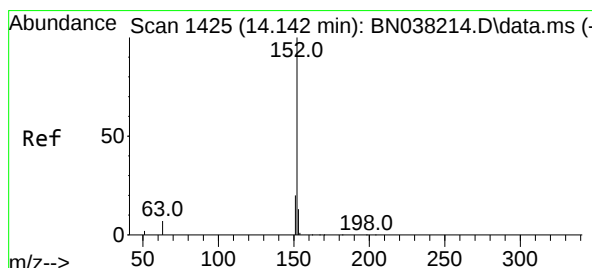
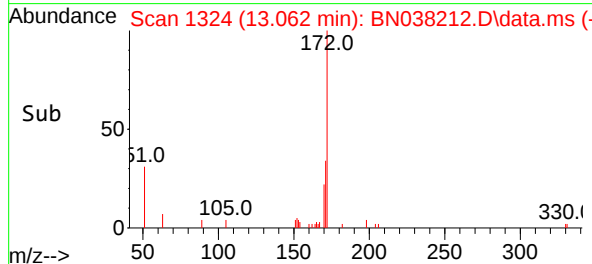
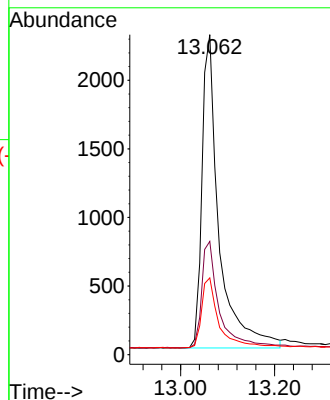
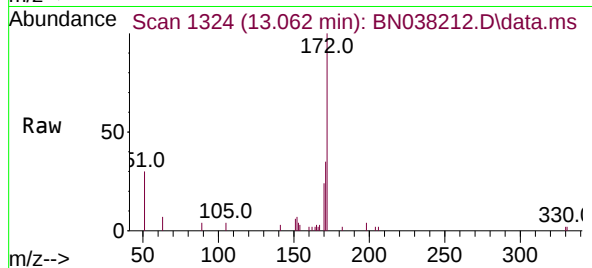
#15  
2-Fluorobiphenyl  
Concen: 0.105 ng  
RT: 13.062 min Scan# 1323  
Delta R.T. 0.011 min  
Lab File: BN038212.D  
Acq: 26 Nov 2025 20:35

Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC0.1

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 172     | 100   |       |       |
| 171     | 35.4  | 28.1  | 42.1  |
| 170     | 24.0  | 19.1  | 28.7  |

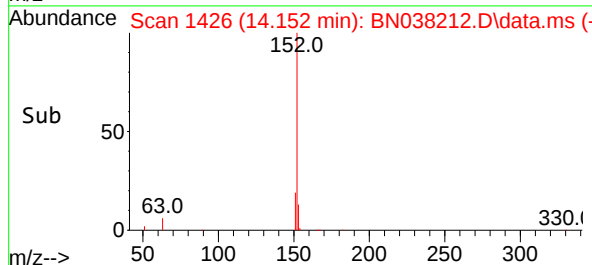
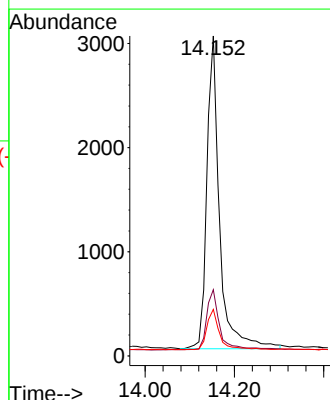
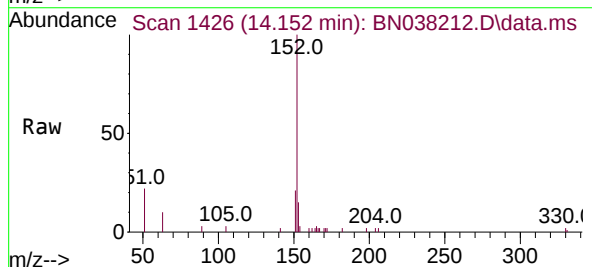
Manual Integrations  
APPROVED

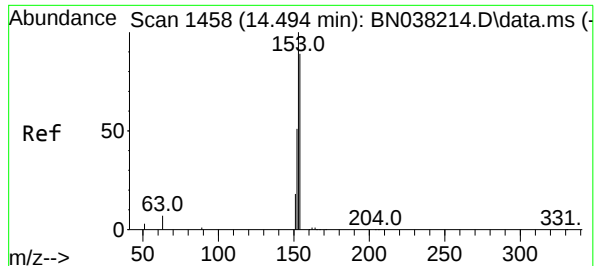
Reviewed By :Jagrut Upadhyay 12/02/2025  
Supervised By :mohammad ahmed 12/03/2025



#16  
Acenaphthylene  
Concen: 0.098 ng  
RT: 14.152 min Scan# 1426  
Delta R.T. 0.011 min  
Lab File: BN038212.D  
Acq: 26 Nov 2025 20:35

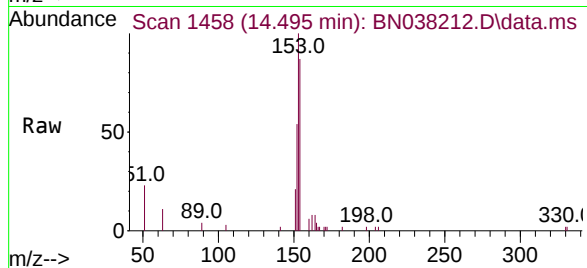
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 151     | 19.7  | 15.6  | 23.4  |
| 153     | 13.1  | 10.6  | 15.8  |





#17  
Acenaphthene  
Concen: 0.100 ng  
RT: 14.495 min Scan# 1458  
Delta R.T. 0.000 min  
Lab File: BN038212.D  
Acq: 26 Nov 2025 20:35

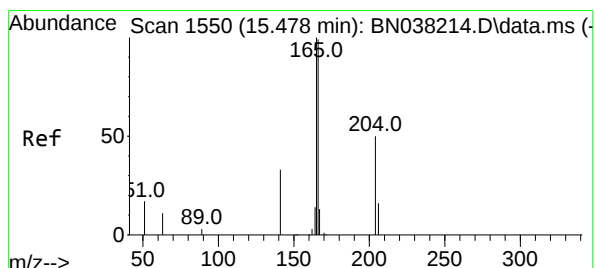
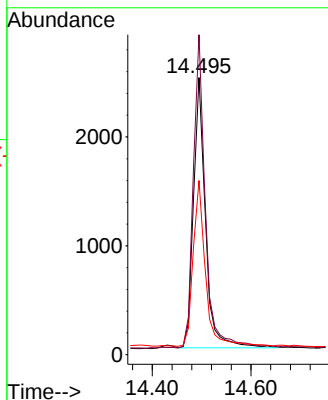
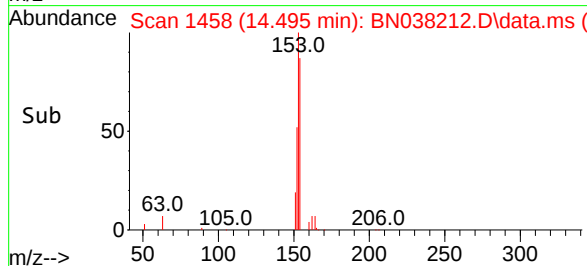
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC0.1



Tgt Ion:154 Resp: 4196  
Ion Ratio Lower Upper  
154 100  
153 116.8 91.1 136.7  
152 62.9 48.2 72.2

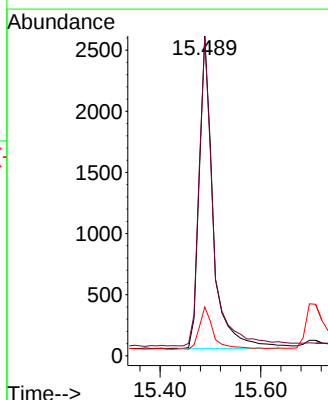
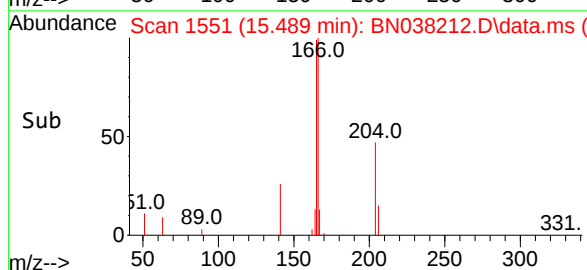
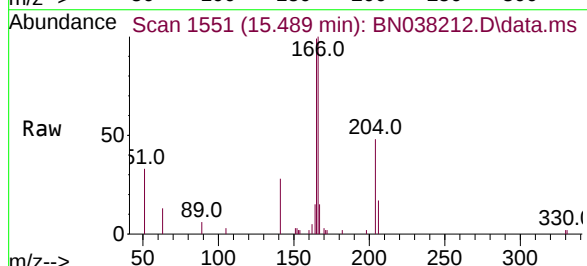
Manual Integrations  
APPROVED

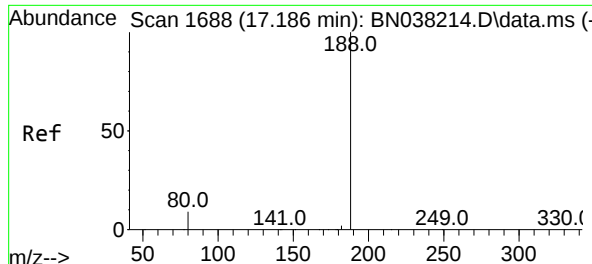
Reviewed By :Jagrut Upadhyay 12/02/2025  
Supervised By :mohammad ahmed 12/03/2025



#18  
Fluorene  
Concen: 0.096 ng  
RT: 15.489 min Scan# 1551  
Delta R.T. 0.011 min  
Lab File: BN038212.D  
Acq: 26 Nov 2025 20:35

Tgt Ion:166 Resp: 5207  
Ion Ratio Lower Upper  
166 100  
165 98.4 78.7 118.1  
167 13.6 10.9 16.3





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 17.186 min Scan# 1688

Delta R.T. 0.000 min

Lab File: BN038212.D

Acq: 26 Nov 2025 20:35

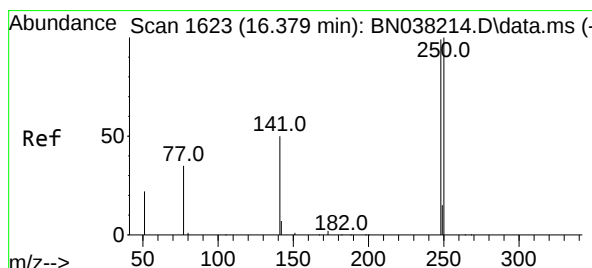
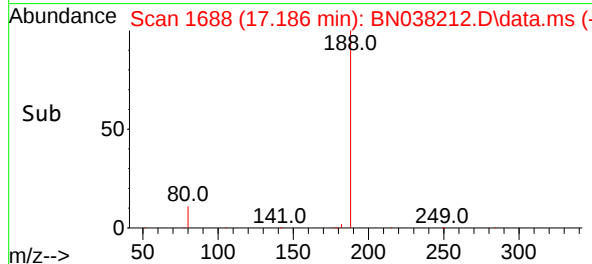
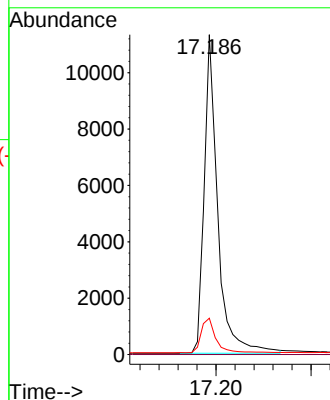
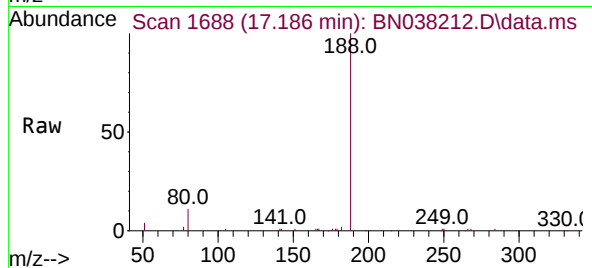
Instrument :

BNA\_N

ClientSampleId :

SSTDICC0.1

|             |       |       |
|-------------|-------|-------|
| Tgt Ion:188 | Resp: | 22239 |
| Ion Ratio   | Lower | Upper |
| 188         | 100   |       |
| 94          | 0.0   | 0.0   |
| 80          | 11.4  | 11.5  |

Manual Integrations  
APPROVEDReviewed By :Jagrut Upadhyay 12/02/2025  
Supervised By :mohammad ahmed 12/03/2025

#21

4-Bromophenyl-phenylether

Concen: 0.097 ng

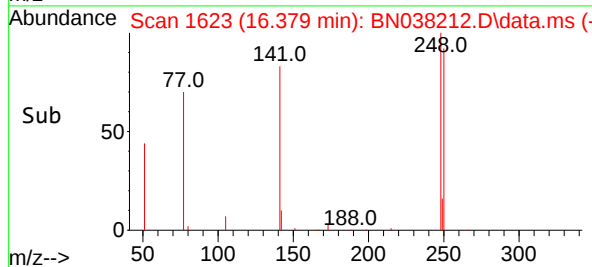
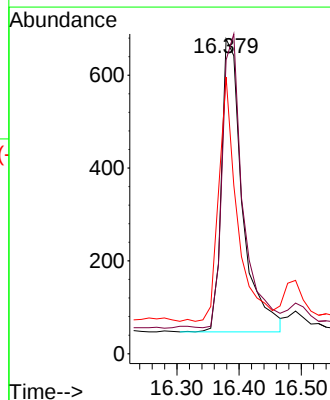
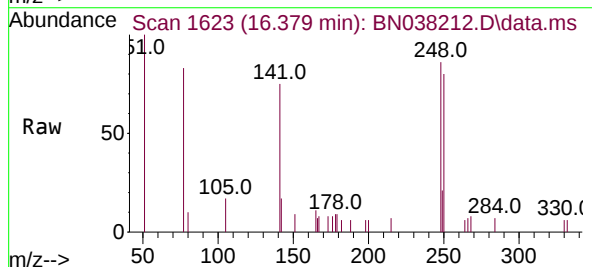
RT: 16.379 min Scan# 1623

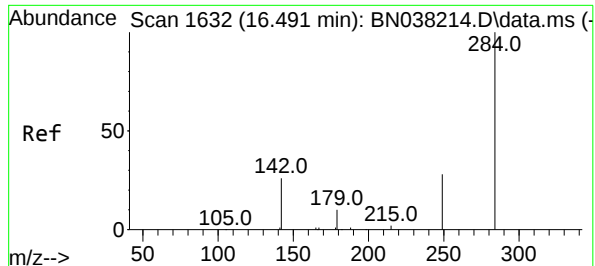
Delta R.T. 0.000 min

Lab File: BN038212.D

Acq: 26 Nov 2025 20:35

|             |       |       |
|-------------|-------|-------|
| Tgt Ion:248 | Resp: | 1492  |
| Ion Ratio   | Lower | Upper |
| 248         | 100   |       |
| 250         | 93.4  | 80.8  |
| 141         | 87.9  | 41.0  |





#22

Hexachlorobenzene

Concen: 0.111 ng

RT: 16.491 min Scan# 1632

Delta R.T. 0.000 min

Lab File: BN038212.D

Acq: 26 Nov 2025 20:35

Instrument :

BNA\_N

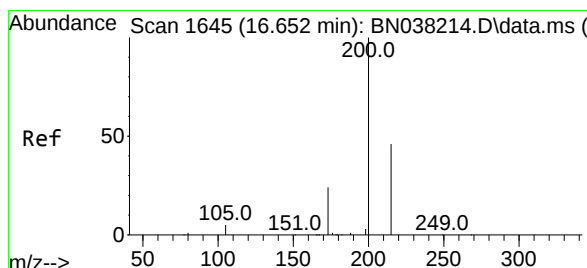
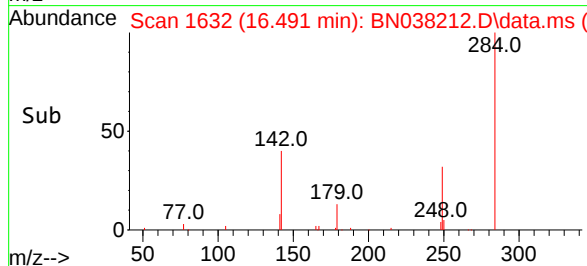
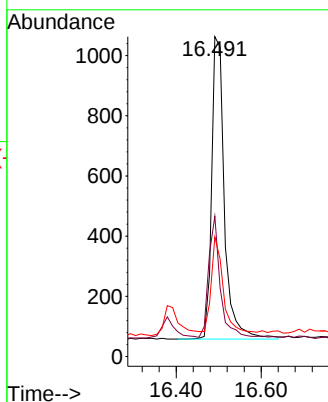
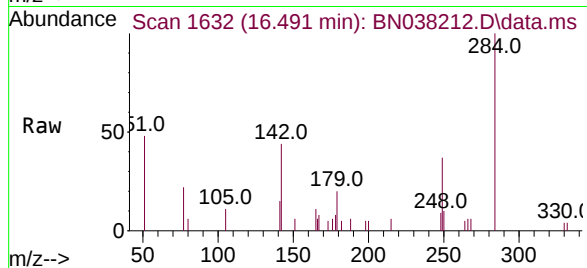
ClientSampleId :

SSTDICC0.1

|           |       |       |      |
|-----------|-------|-------|------|
| Tgt Ion:  | 284   | Resp: | 209  |
| Ion Ratio | Lower | Upper |      |
| 284       | 100   |       |      |
| 142       | 36.2  | 30.5  | 45.7 |
| 249       | 29.5  | 23.8  | 35.8 |

Manual Integrations  
APPROVED

Reviewed By :Jagrut Upadhyay 12/02/2025  
Supervised By :mohammad ahmed 12/03/2025



#23

Atrazine

Concen: 0.093 ng

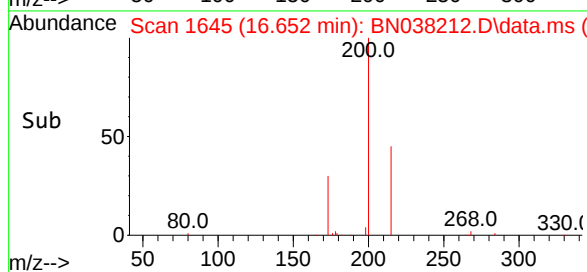
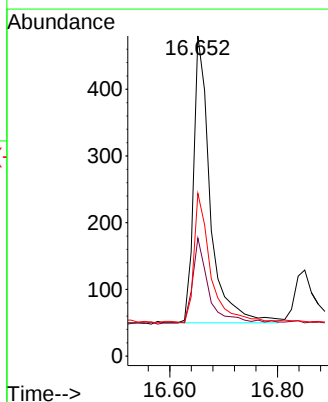
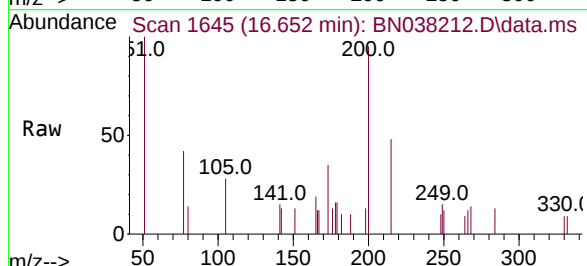
RT: 16.652 min Scan# 1645

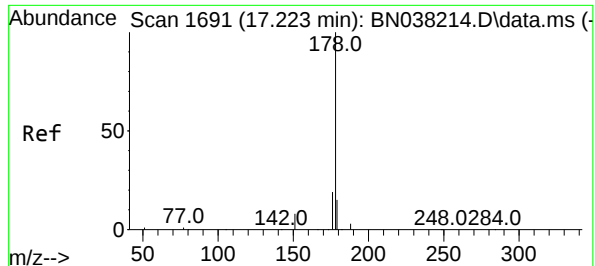
Delta R.T. 0.000 min

Lab File: BN038212.D

Acq: 26 Nov 2025 20:35

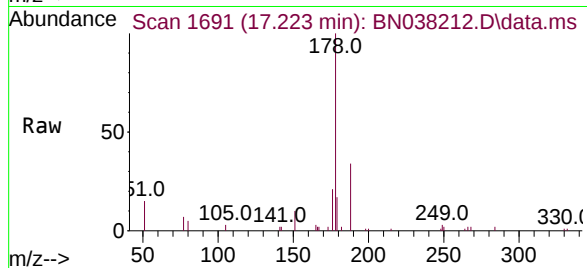
|           |       |       |      |
|-----------|-------|-------|------|
| Tgt Ion:  | 200   | Resp: | 918  |
| Ion Ratio | Lower | Upper |      |
| 200       | 100   |       |      |
| 173       | 36.9  | 21.0  | 31.6 |
| 215       | 50.8  | 37.8  | 56.8 |





#25  
Phenanthrene  
Concen: 0.099 ng  
RT: 17.223 min Scan# 1691  
Delta R.T. 0.000 min  
Lab File: BN038212.D  
Acq: 26 Nov 2025 20:35

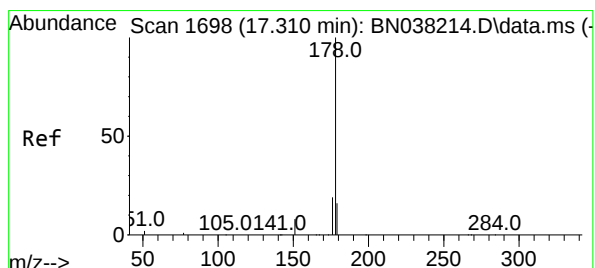
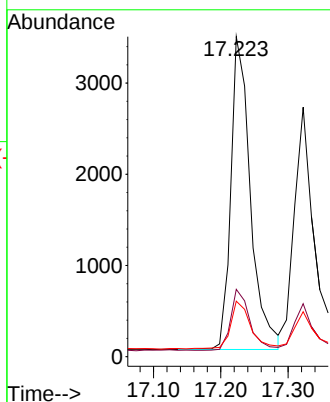
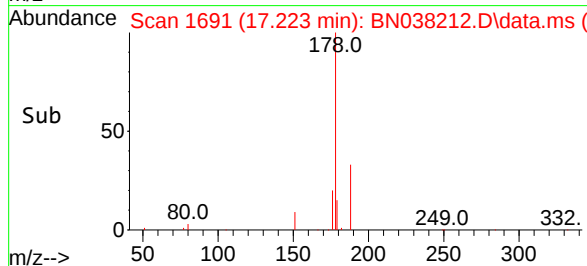
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC0.1



Tgt Ion:178 Resp: 6934  
Ion Ratio Lower Upper  
178 100  
176 19.1 15.3 22.9  
179 15.6 12.0 18.0

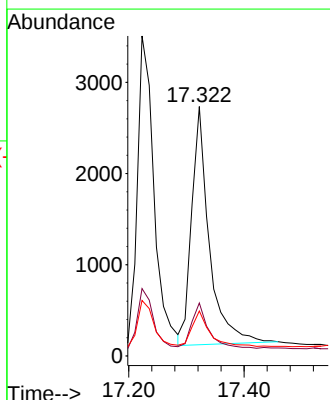
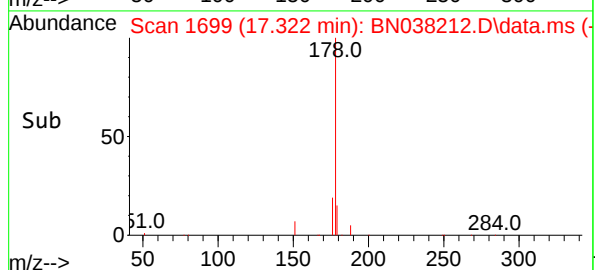
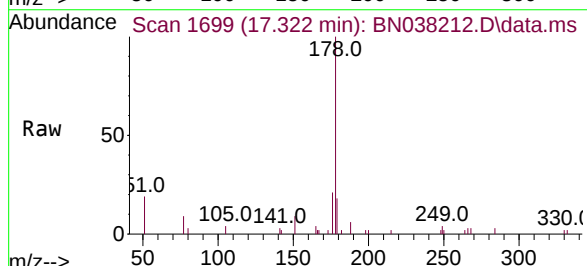
Manual Integrations  
APPROVED

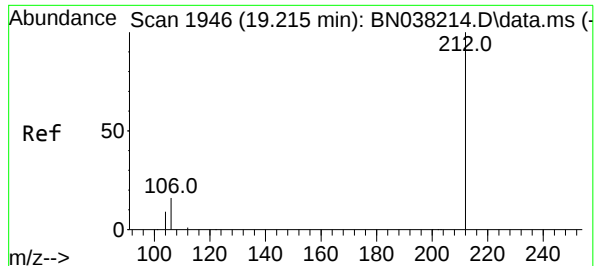
Reviewed By :Jagrut Upadhyay 12/02/2025  
Supervised By :mohammad ahmed 12/03/2025



#26  
Anthracene  
Concen: 0.093 ng  
RT: 17.322 min Scan# 1699  
Delta R.T. 0.013 min  
Lab File: BN038212.D  
Acq: 26 Nov 2025 20:35

Tgt Ion:178 Resp: 5536  
Ion Ratio Lower Upper  
178 100  
176 18.7 14.7 22.1  
179 15.5 12.3 18.5





#27

Fluoranthene-d10

Concen: 0.098 ng

RT: 19.220 min Scan# 1947

Delta R.T. 0.005 min

Lab File: BN038212.D

Acq: 26 Nov 2025 20:35

Instrument :

BNA\_N

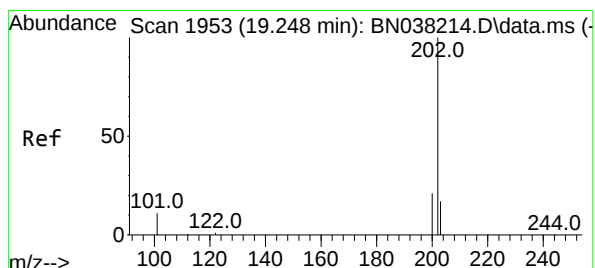
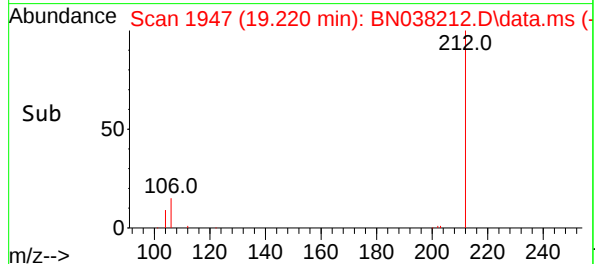
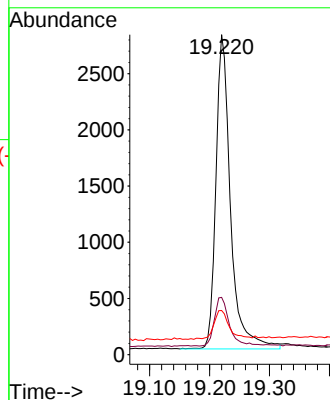
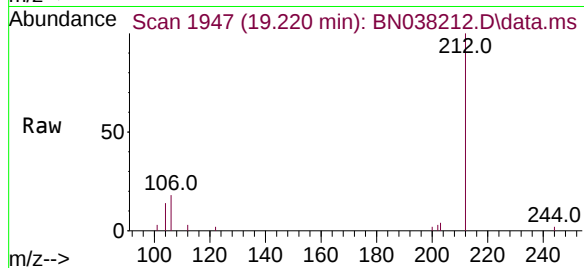
ClientSampleId :

SSTDICC0.1

|           |       |       |      |
|-----------|-------|-------|------|
| Tgt Ion:  | 212   | Resp: | 4740 |
| Ion Ratio | Lower | Upper |      |
| 212       | 100   |       |      |
| 106       | 15.8  | 12.7  | 19.1 |
| 104       | 9.8   | 7.3   | 10.9 |

Manual Integrations  
APPROVED

Reviewed By :Jagrut Upadhyay 12/02/2025  
Supervised By :mohammad ahmed 12/03/2025



#28

Fluoranthene

Concen: 0.097 ng

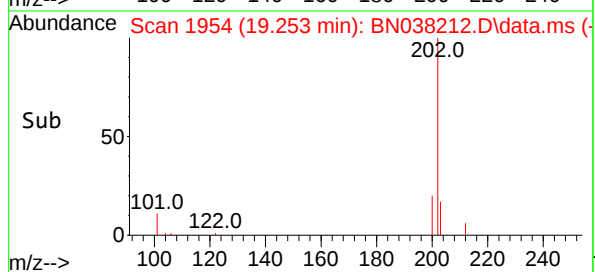
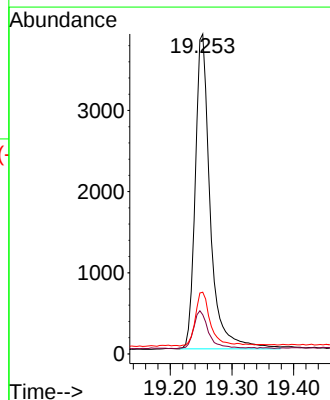
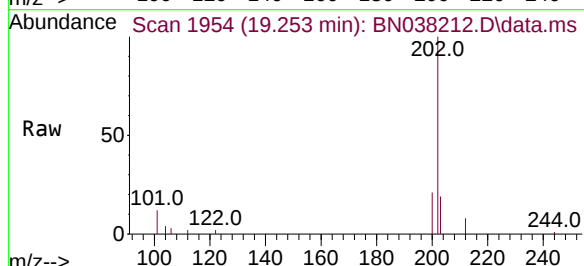
RT: 19.253 min Scan# 1954

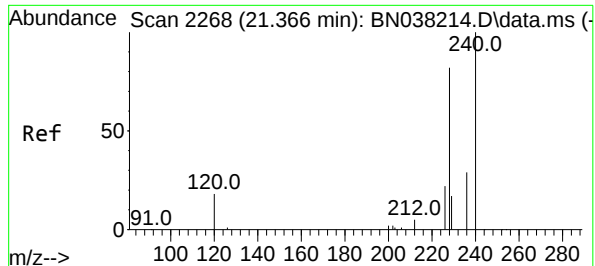
Delta R.T. 0.005 min

Lab File: BN038212.D

Acq: 26 Nov 2025 20:35

|           |       |       |      |
|-----------|-------|-------|------|
| Tgt Ion:  | 202   | Resp: | 6527 |
| Ion Ratio | Lower | Upper |      |
| 202       | 100   |       |      |
| 101       | 11.9  | 9.8   | 14.6 |
| 203       | 16.8  | 13.6  | 20.4 |





#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.375 min Scan# 21

Delta R.T. 0.009 min

Lab File: BN038212.D

Acq: 26 Nov 2025 20:35

Instrument :

BNA\_N

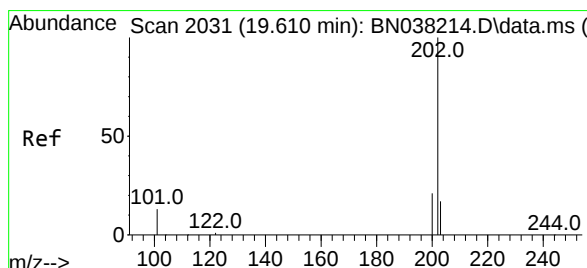
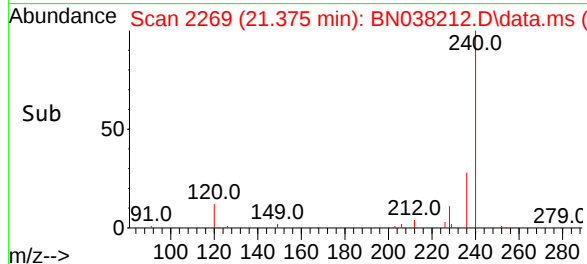
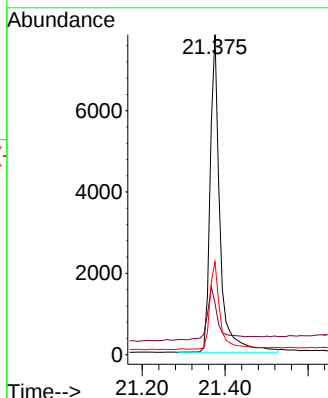
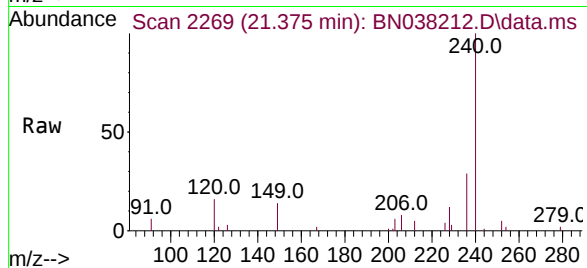
ClientSampleId :

SSTDIC0.1

|           |       |       |      |
|-----------|-------|-------|------|
| Tgt Ion:  | 240   | Resp: | 1284 |
| Ion Ratio | Lower | Upper |      |
| 240       | 100   |       |      |
| 120       | 16.0  | 18.1  | 27.1 |
| 236       | 29.0  | 24.2  | 36.4 |

Manual Integrations  
APPROVED

Reviewed By :Jagrut Upadhyay 12/02/2025  
Supervised By :mohammad ahmed 12/03/2025



#30

Pyrene

Concen: 0.103 ng

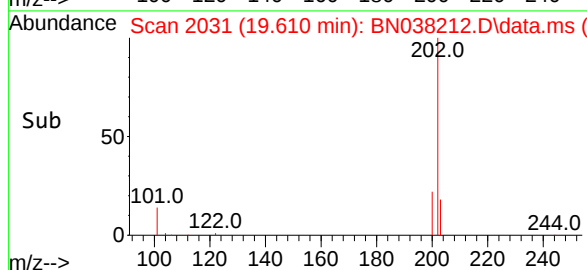
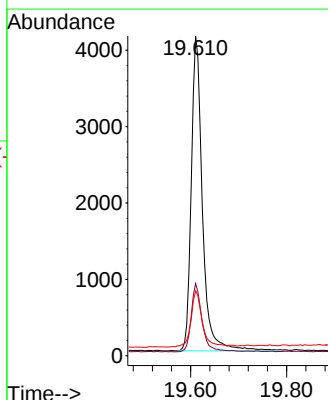
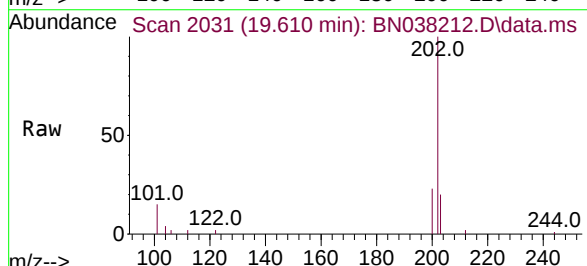
RT: 19.610 min Scan# 2031

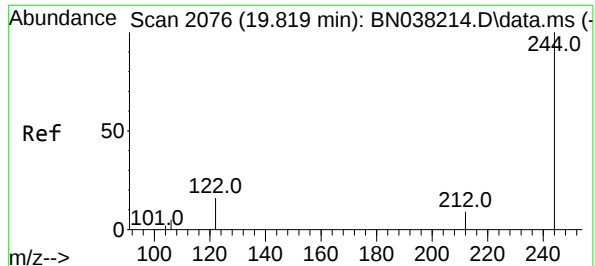
Delta R.T. 0.000 min

Lab File: BN038212.D

Acq: 26 Nov 2025 20:35

|           |       |       |      |
|-----------|-------|-------|------|
| Tgt Ion:  | 202   | Resp: | 6634 |
| Ion Ratio | Lower | Upper |      |
| 202       | 100   |       |      |
| 200       | 20.9  | 16.8  | 25.2 |
| 203       | 18.0  | 14.4  | 21.6 |





#31  
Terphenyl-d14  
Concen: 0.098 ng  
RT: 19.819 min Scan# 2076  
Delta R.T. 0.000 min  
Lab File: BN038212.D  
Acq: 26 Nov 2025 20:35

Instrument :

BNA\_N

ClientSampleId :

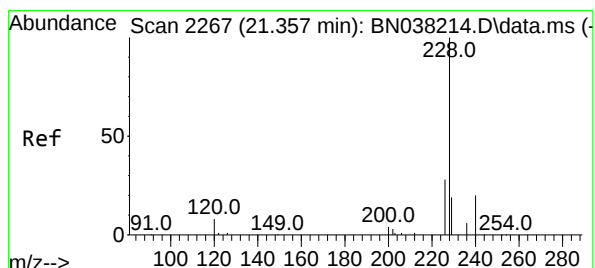
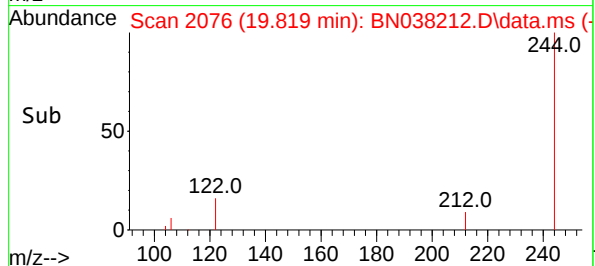
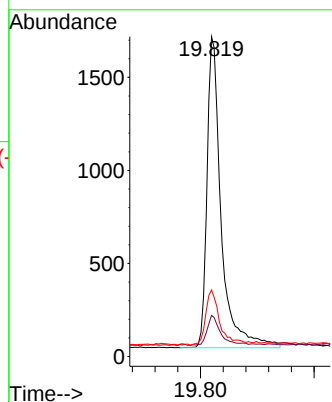
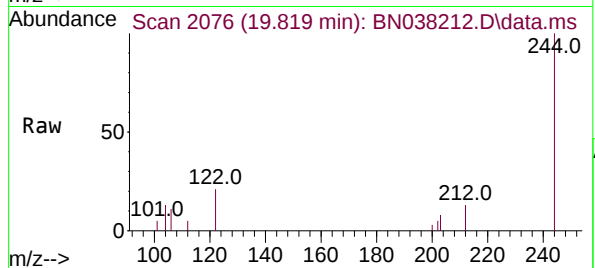
SSTDICC0.1

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 244     | 100   |       |       |
| 212     | 12.9  | 7.7   | 11.5  |
| 122     | 20.8  | 13.6  | 20.4  |

Manual Integrations

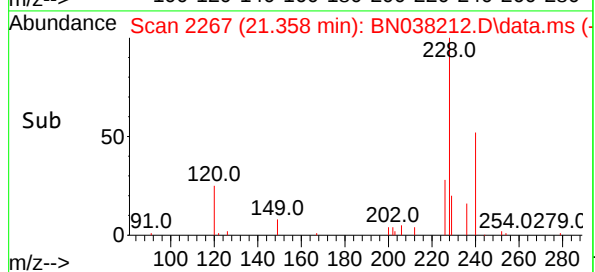
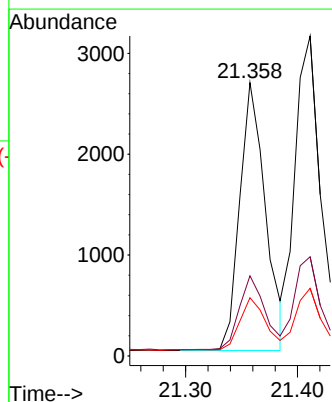
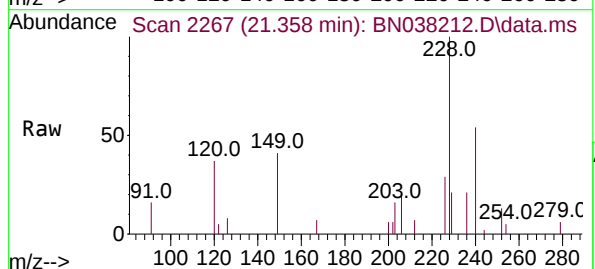
APPROVED

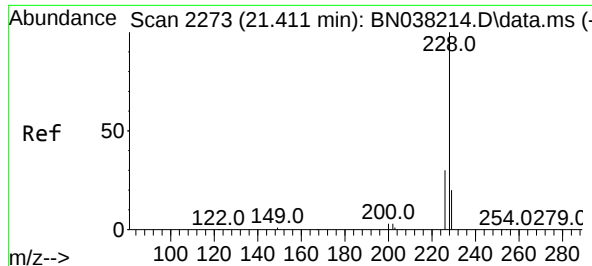
Reviewed By :Jagrut Upadhyay 12/02/2025  
Supervised By :mohammad ahmed 12/03/2025



#32  
Benzo(a)anthracene  
Concen: 0.097 ng  
RT: 21.358 min Scan# 2267  
Delta R.T. 0.000 min  
Lab File: BN038212.D  
Acq: 26 Nov 2025 20:35

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 228     | 100   |       |       |
| 226     | 29.3  | 22.6  | 33.8  |
| 229     | 21.3  | 15.8  | 23.8  |





#33

Chrysene

Concen: 0.109 ng

RT: 21.411 min Scan# 21

Delta R.T. 0.000 min

Lab File: BN038212.D

Acq: 26 Nov 2025 20:35

Instrument :

BNA\_N

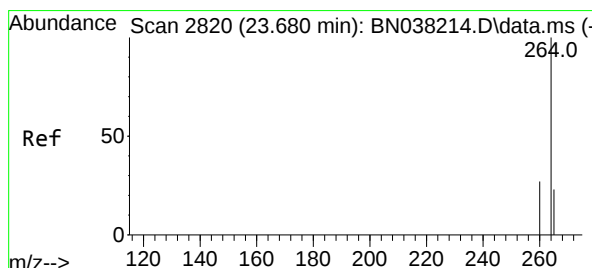
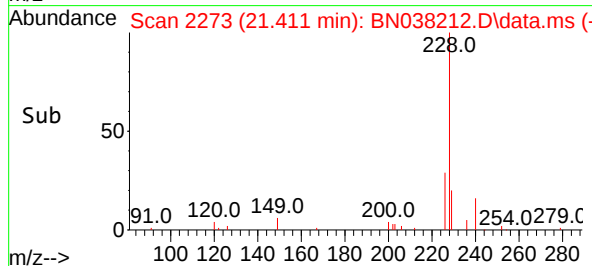
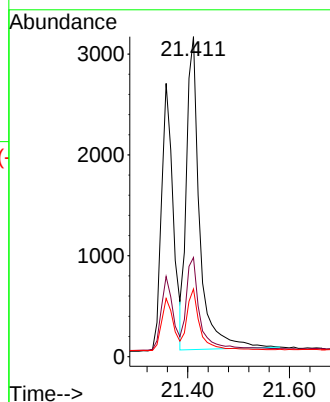
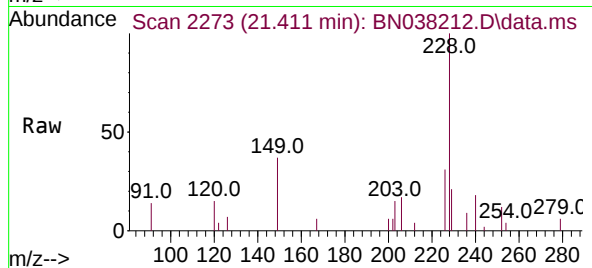
ClientSampleId :

SSTDIC0.1

|             |                |
|-------------|----------------|
| Tgt Ion:228 | Resp: 5593     |
| Ion Ratio   | Lower Upper    |
| 228         | 100            |
| 226         | 31.0 23.8 35.8 |
| 229         | 21.1 16.1 24.1 |

Manual Integrations  
APPROVED

Reviewed By :Jagrut Upadhyay 12/02/2025  
Supervised By :mohammad ahmed 12/03/2025



#35

Perylene-d12

Concen: 0.400 ng

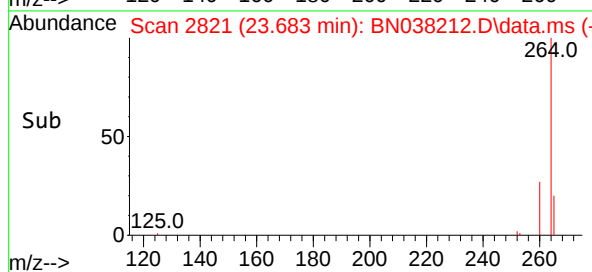
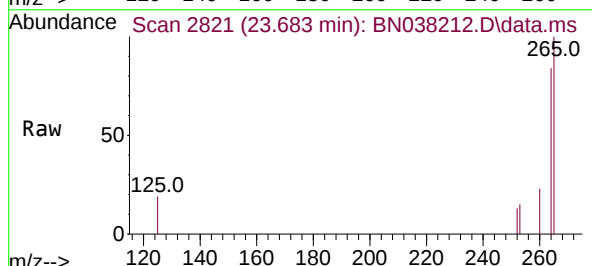
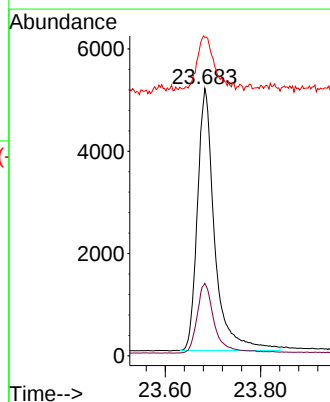
RT: 23.683 min Scan# 2821

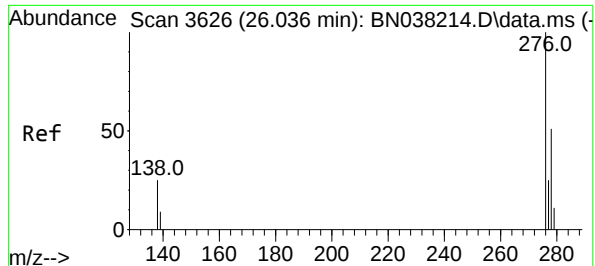
Delta R.T. 0.003 min

Lab File: BN038212.D

Acq: 26 Nov 2025 20:35

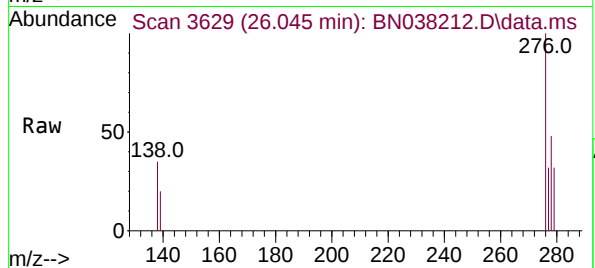
|             |                  |
|-------------|------------------|
| Tgt Ion:264 | Resp: 12898      |
| Ion Ratio   | Lower Upper      |
| 264         | 100              |
| 260         | 27.1 21.7 32.5   |
| 265         | 119.1 98.0 147.0 |





#36  
Indeno(1,2,3-cd)pyrene  
Concen: 0.094 ng  
RT: 26.045 min Scan# 3626  
Delta R.T. 0.009 min  
Lab File: BN038212.D  
Acq: 26 Nov 2025 20:35

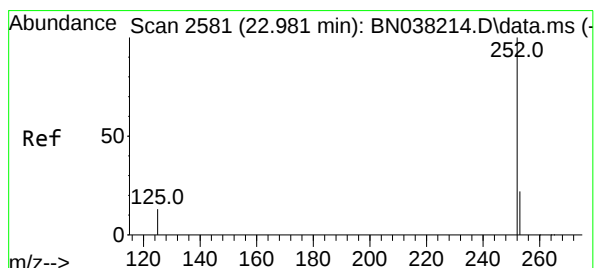
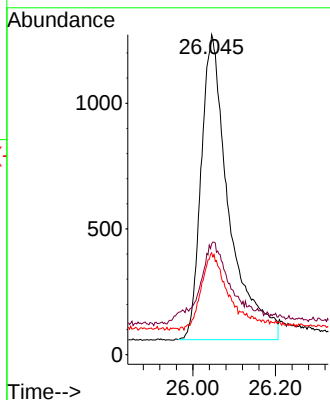
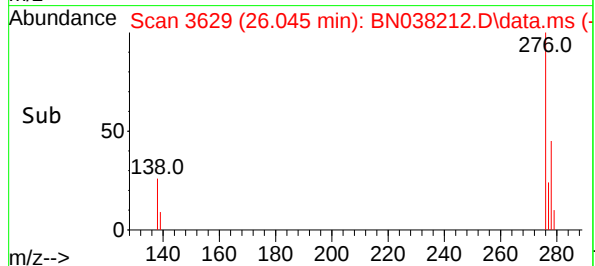
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC0.1



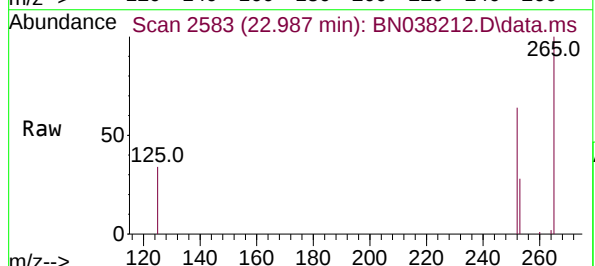
Tgt Ion: 276 Resp: 563  
Ion Ratio Lower Upper  
276 100  
138 20.5 21.4 32.2  
277 22.5 19.1 28.7

Manual Integrations  
APPROVED

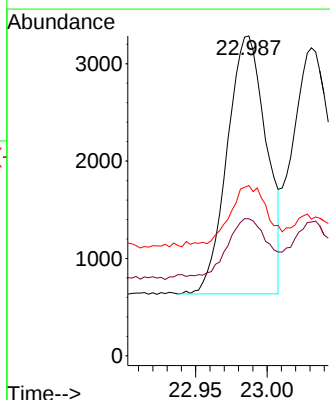
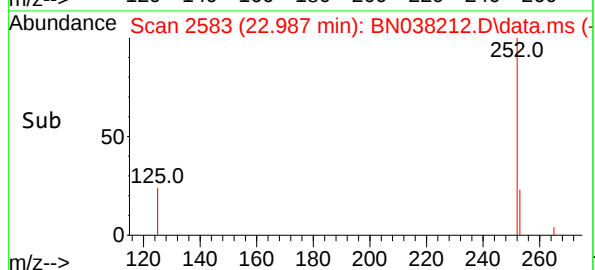
Reviewed By : Jagrut Upadhyay 12/02/2025  
Supervised By : mohammad ahmed 12/03/2025

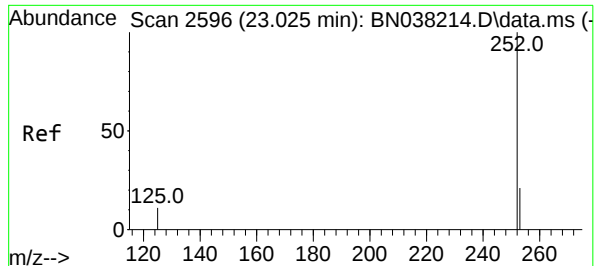


#37  
Benzo(b)fluoranthene  
Concen: 0.095 ng  
RT: 22.987 min Scan# 2583  
Delta R.T. 0.006 min  
Lab File: BN038212.D  
Acq: 26 Nov 2025 20:35



Tgt Ion: 252 Resp: 5040  
Ion Ratio Lower Upper  
252 100  
253 42.8 22.2 33.4#  
125 53.2 18.0 27.0#





#38

Benzo(k)fluoranthene

Concen: 0.095 ng

RT: 23.031 min Scan# 21

Delta R.T. 0.006 min

Lab File: BN038212.D

Acq: 26 Nov 2025 20:35

Instrument :

BNA\_N

ClientSampleId :

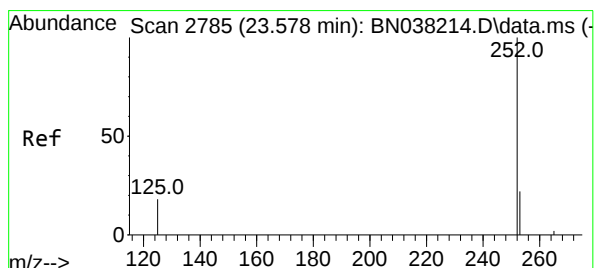
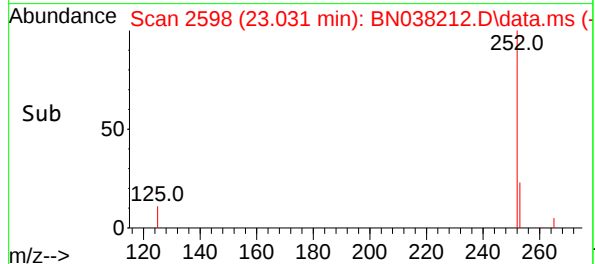
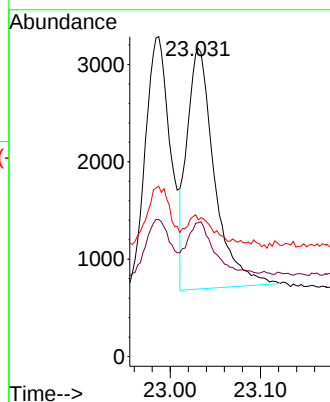
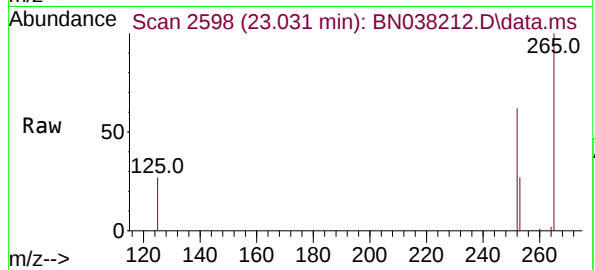
SSTDIC0.1

|           |       |       |      |
|-----------|-------|-------|------|
| Tgt Ion:  | 252   | Resp: | 524  |
| Ion Ratio | Lower | Upper |      |
| 252       | 100   |       |      |
| 253       | 43.4  | 22.4  | 33.6 |
| 125       | 44.4  | 17.5  | 26.3 |

Manual Integrations

APPROVED

Reviewed By :Jagrut Upadhyay 12/02/2025  
Supervised By :mohammad ahmed 12/03/2025



#39

Benzo(a)pyrene

Concen: 0.103 ng

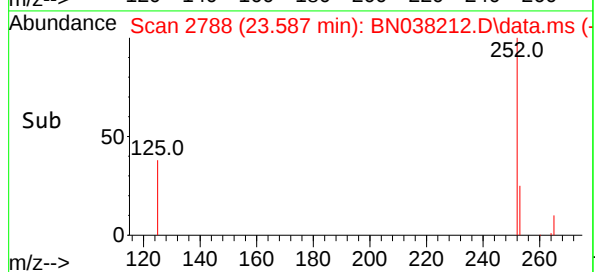
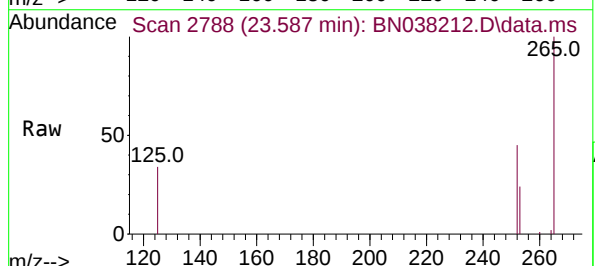
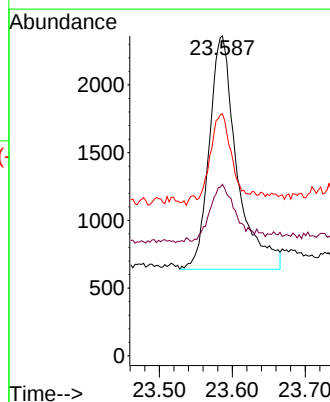
RT: 23.587 min Scan# 2788

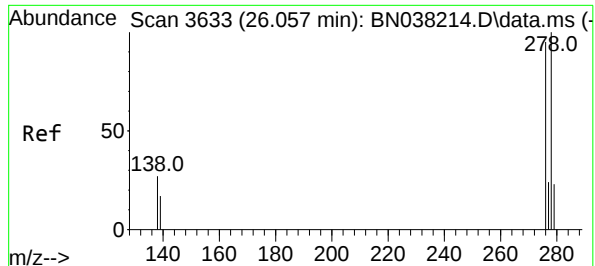
Delta R.T. 0.009 min

Lab File: BN038212.D

Acq: 26 Nov 2025 20:35

|           |       |       |      |
|-----------|-------|-------|------|
| Tgt Ion:  | 252   | Resp: | 4558 |
| Ion Ratio | Lower | Upper |      |
| 252       | 100   |       |      |
| 253       | 53.6  | 25.3  | 37.9 |
| 125       | 75.7  | 25.2  | 37.8 |





#40

Dibenzo(a,h)anthracene

Concen: 0.090 ng

RT: 26.069 min Scan# 30

Delta R.T. 0.012 min

Lab File: BN038212.D

Acq: 26 Nov 2025 20:35

Instrument :

BNA\_N

ClientSampleId :

SSTDIC0.1

Tgt Ion:278 Resp: 407

Ion Ratio Lower Upper

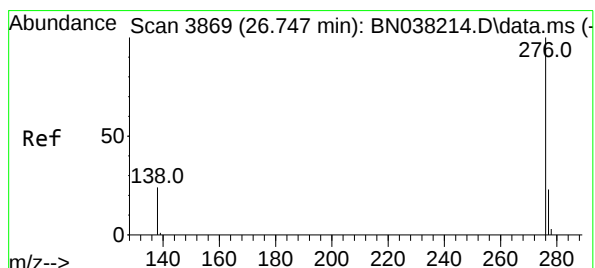
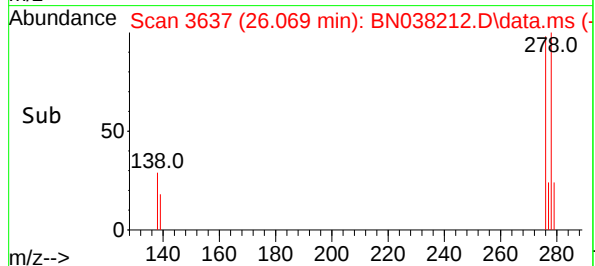
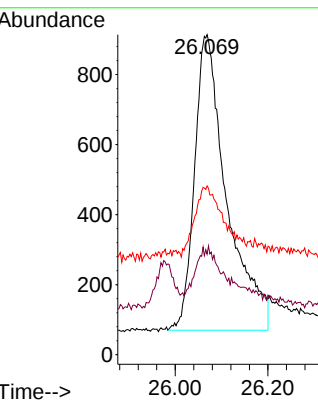
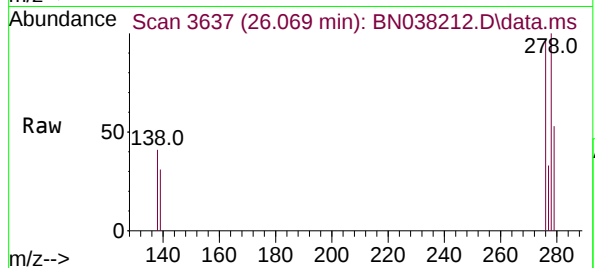
278 100

139 31.4 17.6 26.4

279 52.7 24.2 36.4

Manual Integrations

APPROVED

Reviewed By :Jagrut Upadhyay 12/02/2025  
Supervised By :mohammad ahmed 12/03/2025

#41

Benzo(g,h,i)perylene

Concen: 0.103 ng m

RT: 26.753 min Scan# 3871

Delta R.T. 0.006 min

Lab File: BN038212.D

Acq: 26 Nov 2025 20:35

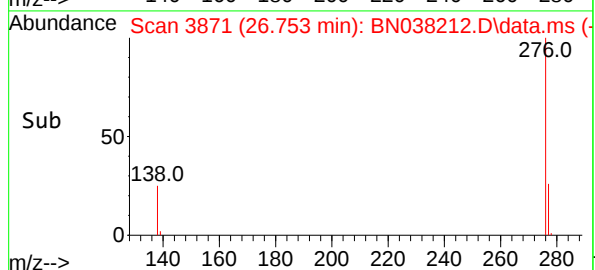
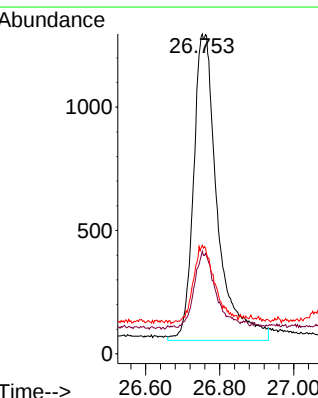
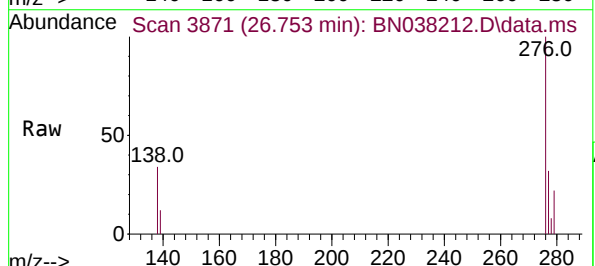
Tgt Ion:276 Resp: 5553

Ion Ratio Lower Upper

276 100

277 32.1 20.2 30.2#

138 33.9 20.8 31.2#



Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN112725\  
 Data File : BN038213.D  
 Acq On : 26 Nov 2025 21:12  
 Operator : RC/JU  
 Sample : SSTDICC0.2  
 Misc :  
 ALS Vial : 13 Sample Multiplier: 1

Instrument :  
 BNA\_N  
 ClientSampleId :  
 SSTDICC0.2

Quant Time: Nov 28 20:54:28 2025  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\8270-SIM-BN112725.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Fri Nov 28 20:22:09 2025  
 Response via : Initial Calibration

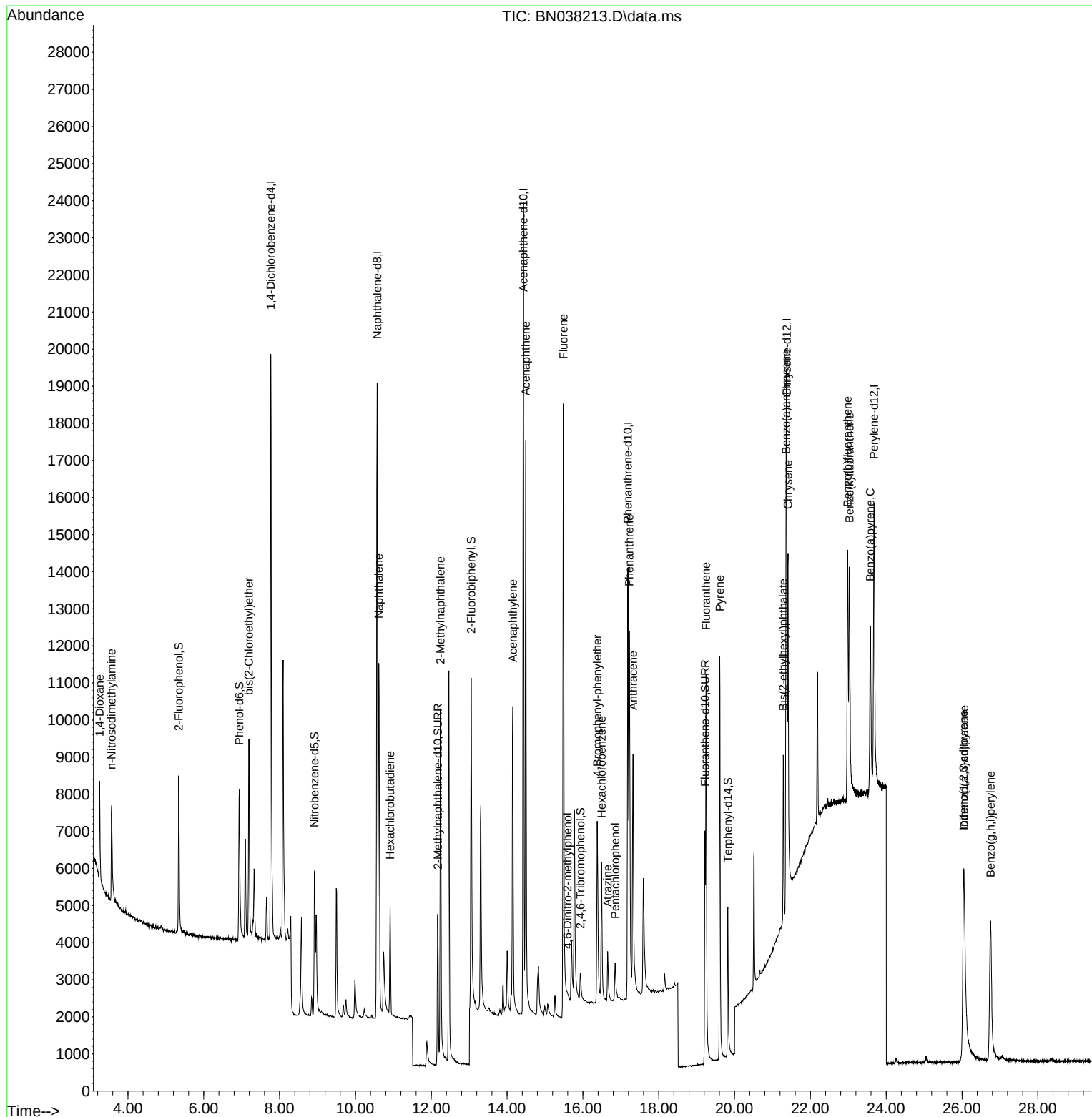
| Compound                      | R.T.   | QIon | Response | Conc  | Units | Dev(Min) |
|-------------------------------|--------|------|----------|-------|-------|----------|
| Internal Standards            |        |      |          |       |       |          |
| 1) 1,4-Dichlorobenzene-d4     | 7.768  | 152  | 8206     | 0.400 | ng    | 0.00     |
| 7) Naphthalene-d8             | 10.573 | 136  | 24762    | 0.400 | ng    | 0.00     |
| 13) Acenaphthene-d10          | 14.430 | 164  | 13187    | 0.400 | ng    | 0.00     |
| 19) Phenanthrene-d10          | 17.186 | 188  | 19574    | 0.400 | ng    | # 0.00   |
| 29) Chrysene-d12              | 21.375 | 240  | 12487    | 0.400 | ng    | # 0.00   |
| 35) Perylene-d12              | 23.680 | 264  | 12455    | 0.400 | ng    | 0.00     |
| System Monitoring Compounds   |        |      |          |       |       |          |
| 4) 2-Fluorophenol             | 5.341  | 112  | 3817     | 0.199 | ng    | 0.00     |
| 5) Phenol-d6                  | 6.937  | 99   | 4526     | 0.189 | ng    | 0.00     |
| 8) Nitrobenzene-d5            | 8.918  | 82   | 3887     | 0.196 | ng    | 0.00     |
| 11) 2-Methylnaphthalene-d10   | 12.172 | 152  | 6785     | 0.193 | ng    | 0.00     |
| 14) 2,4,6-Tribromophenol      | 15.932 | 330  | 657      | 0.158 | ng    | 0.00     |
| 15) 2-Fluorobiphenyl          | 13.051 | 172  | 10212    | 0.200 | ng    | 0.00     |
| 27) Fluoranthene-d10          | 19.220 | 212  | 8268     | 0.195 | ng    | 0.00     |
| 31) Terphenyl-d14             | 19.824 | 244  | 5290     | 0.183 | ng    | 0.00     |
| Target Compounds              |        |      |          |       |       |          |
|                               |        |      |          |       |       | Qvalue   |
| 2) 1,4-Dioxane                | 3.254  | 88   | 1986     | 0.230 | ng    | 90       |
| 3) n-Nitrosodimethylamine     | 3.564  | 42   | 2003     | 0.188 | ng    | 97       |
| 6) bis(2-Chloroethyl)ether    | 7.190  | 93   | 4586     | 0.200 | ng    | 98       |
| 9) Naphthalene                | 10.616 | 128  | 13644    | 0.198 | ng    | 99       |
| 10) Hexachlorobutadiene       | 10.914 | 225  | 2378     | 0.203 | ng    | # 98     |
| 12) 2-Methylnaphthalene       | 12.243 | 142  | 8631     | 0.191 | ng    | 99       |
| 16) Acenaphthylene            | 14.152 | 152  | 11108    | 0.188 | ng    | 99       |
| 17) Acenaphthene              | 14.494 | 154  | 7968     | 0.194 | ng    | 98       |
| 18) Fluorene                  | 15.489 | 166  | 9508     | 0.179 | ng    | 98       |
| 20) 4,6-Dinitro-2-methylph... | 15.597 | 198  | 206      | 0.227 | ng    | # 1      |
| 21) 4-Bromophenyl-phenylether | 16.379 | 248  | 2619     | 0.193 | ng    | # 85     |
| 22) Hexachlorobenzene         | 16.491 | 284  | 3585     | 0.215 | ng    | 99       |
| 23) Atrazine                  | 16.652 | 200  | 1535     | 0.177 | ng    | # 95     |
| 24) Pentachlorophenol         | 16.851 | 266  | 882      | 0.193 | ng    | 94       |
| 25) Phenanthrene              | 17.223 | 178  | 11817    | 0.192 | ng    | 99       |
| 26) Anthracene                | 17.322 | 178  | 9765     | 0.186 | ng    | 100      |
| 28) Fluoranthene              | 19.248 | 202  | 11226    | 0.190 | ng    | 99       |
| 30) Pyrene                    | 19.610 | 202  | 11263    | 0.181 | ng    | 100      |
| 32) Benzo(a)anthracene        | 21.357 | 228  | 7938     | 0.188 | ng    | 98       |
| 33) Chrysene                  | 21.411 | 228  | 10232    | 0.205 | ng    | 98       |
| 34) Bis(2-ethylhexyl)phtha... | 21.286 | 149  | 4872     | 0.210 | ng    | 100      |
| 36) Indeno(1,2,3-cd)pyrene    | 26.039 | 276  | 10679    | 0.185 | ng    | 96       |
| 37) Benzo(b)fluoranthene      | 22.984 | 252  | 9683     | 0.189 | ng    | # 84     |
| 38) Benzo(k)fluoranthene      | 23.028 | 252  | 10204    | 0.192 | ng    | # 86     |
| 39) Benzo(a)pyrene            | 23.581 | 252  | 7993     | 0.187 | ng    | # 76     |
| 40) Dibenzo(a,h)anthracene    | 26.054 | 278  | 7682     | 0.176 | ng    | # 86     |
| 41) Benzo(g,h,i)perylene      | 26.753 | 276  | 9876     | 0.190 | ng    | 97       |

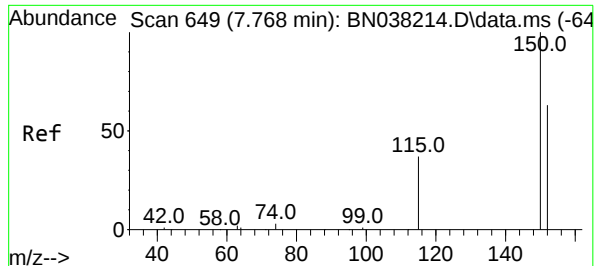
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN112725\  
Data File : BN038213.D  
Acq On : 26 Nov 2025 21:12  
Operator : RC/JU  
Sample : SSTDICC0.2  
Misc :  
ALS Vial : 13 Sample Multiplier: 1

Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC0.2

Quant Time: Nov 28 20:54:28 2025  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\8270-SIM-BN112725.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Fri Nov 28 20:22:09 2025  
Response via : Initial Calibration

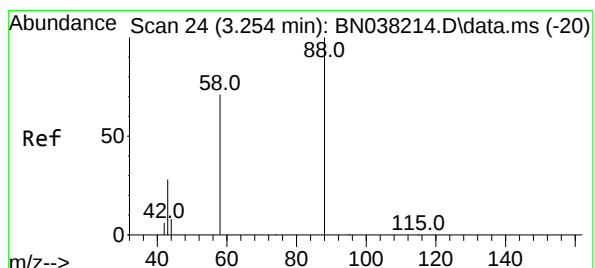
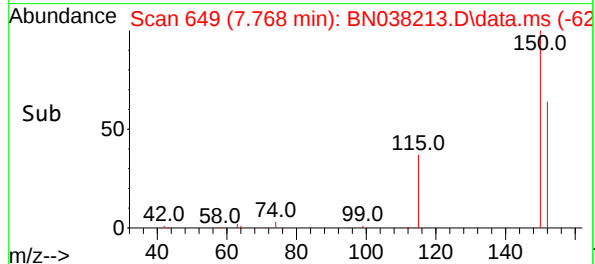
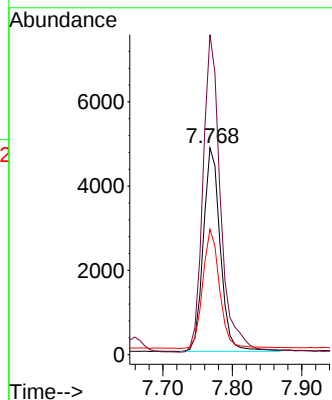
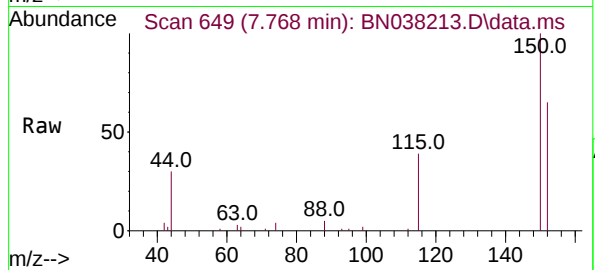




#1  
1,4-Dichlorobenzene-d4  
Concen: 0.400 ng  
RT: 7.768 min Scan# 64  
Delta R.T. -0.000 min  
Lab File: BN038213.D  
Acq: 26 Nov 2025 21:12

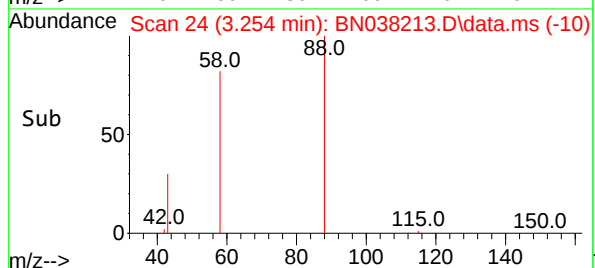
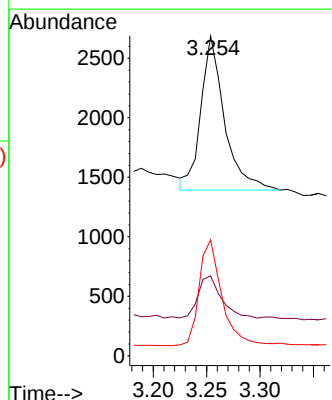
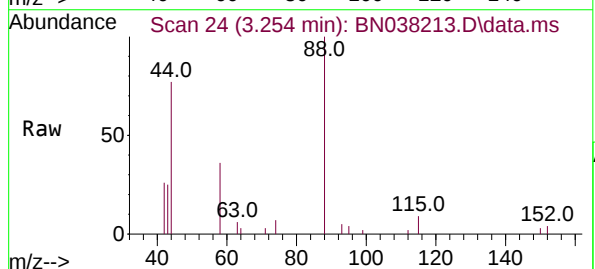
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC0.2

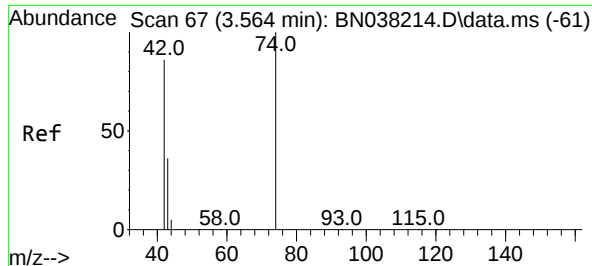
Tgt Ion:152 Resp: 8206  
Ion Ratio Lower Upper  
152 100  
150 154.7 125.3 187.9  
115 60.6 49.0 73.4



#2  
1,4-Dioxane  
Concen: 0.230 ng  
RT: 3.254 min Scan# 24  
Delta R.T. -0.000 min  
Lab File: BN038213.D  
Acq: 26 Nov 2025 21:12

Tgt Ion: 88 Resp: 1986  
Ion Ratio Lower Upper  
88 100  
43 28.2 24.8 37.2  
58 66.3 61.1 91.7

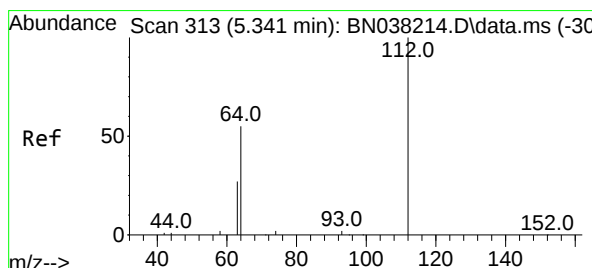
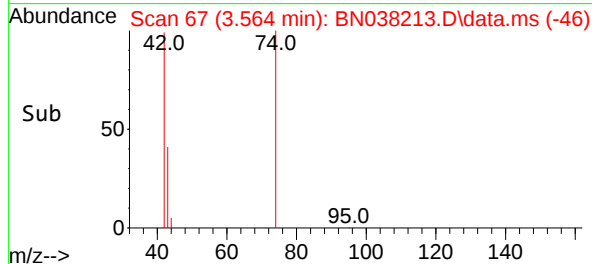
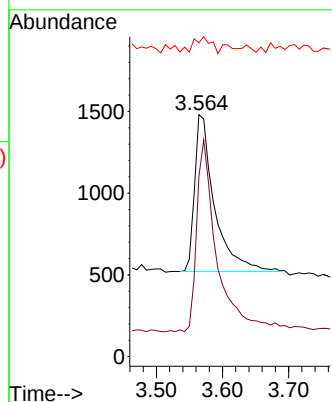
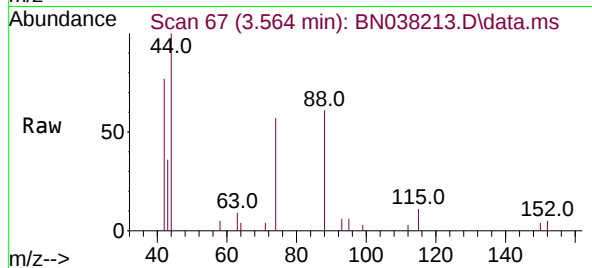




#3  
n-Nitrosodimethylamine  
Concen: 0.188 ng  
RT: 3.564 min Scan# 61  
Delta R.T. -0.000 min  
Lab File: BN038213.D  
Acq: 26 Nov 2025 21:12

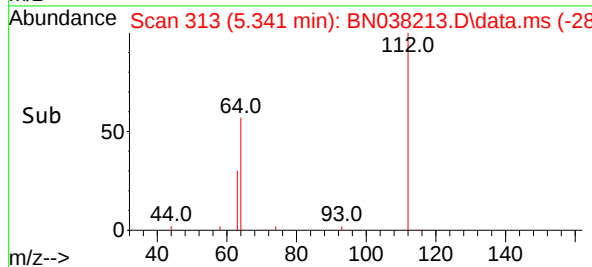
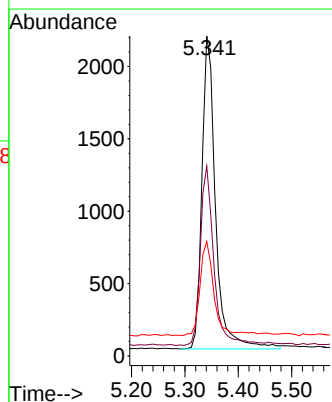
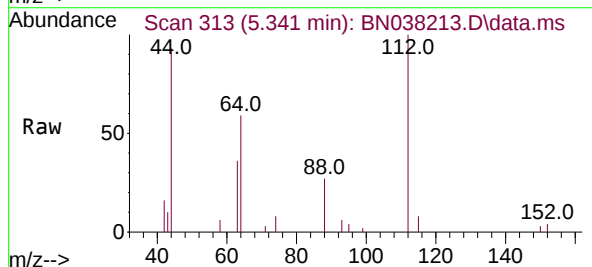
Instrument :  
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ClientSampleId :  
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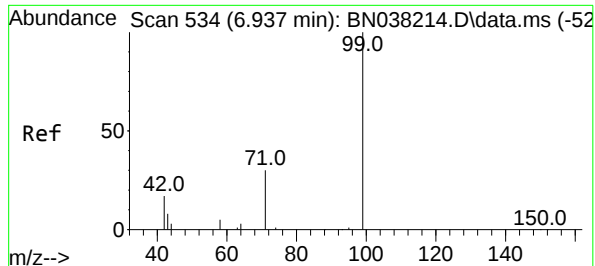
Tgt Ion: 42 Resp: 2003  
Ion Ratio Lower Upper  
42 100  
74 124.3 96.2 144.2  
44 9.6 8.0 12.0



#4  
2-Fluorophenol  
Concen: 0.199 ng  
RT: 5.341 min Scan# 313  
Delta R.T. -0.000 min  
Lab File: BN038213.D  
Acq: 26 Nov 2025 21:12

Tgt Ion: 112 Resp: 3817  
Ion Ratio Lower Upper  
112 100  
64 57.3 45.0 67.4  
63 30.5 23.2 34.8

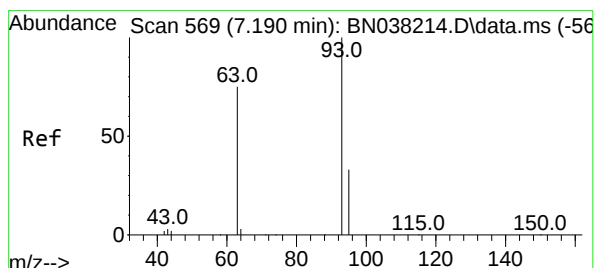
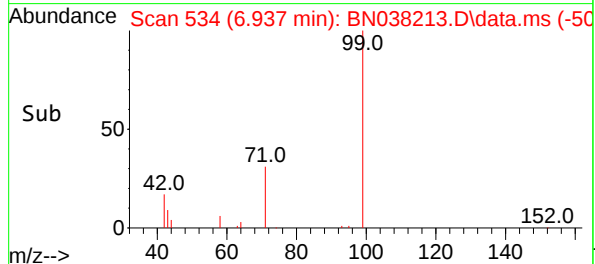
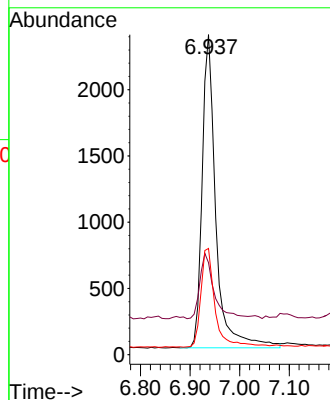
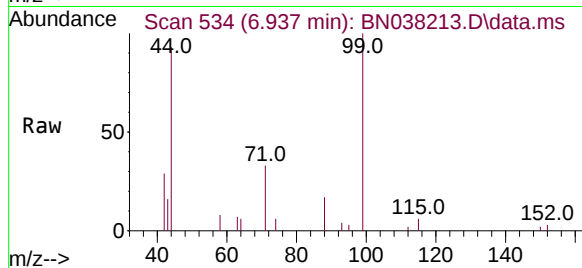




#5  
Phenol-d6  
Concen: 0.189 ng  
RT: 6.937 min Scan# 534  
Delta R.T. -0.000 min  
Lab File: BN038213.D  
Acq: 26 Nov 2025 21:12

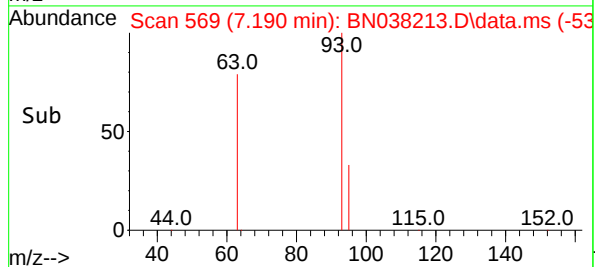
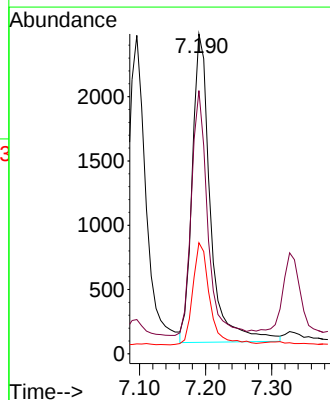
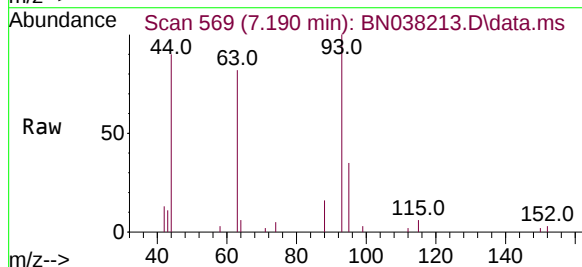
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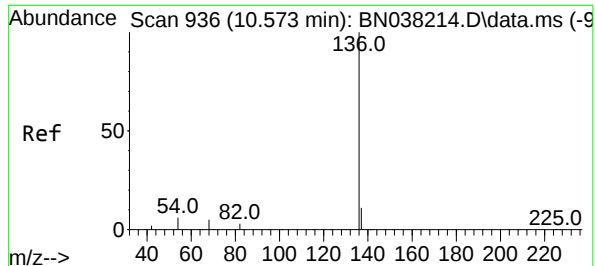
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 99      | 100   |       |       |
| 42      | 21.5  | 17.0  | 25.6  |
| 71      | 32.7  | 25.4  | 38.2  |



#6  
bis(2-Chloroethyl)ether  
Concen: 0.200 ng  
RT: 7.190 min Scan# 569  
Delta R.T. -0.000 min  
Lab File: BN038213.D  
Acq: 26 Nov 2025 21:12

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 93      | 100   |       |       |
| 63      | 70.6  | 58.1  | 87.1  |
| 95      | 30.7  | 25.1  | 37.7  |

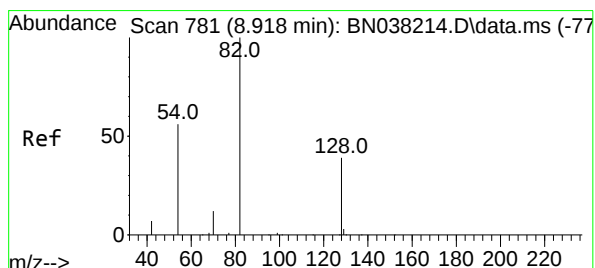
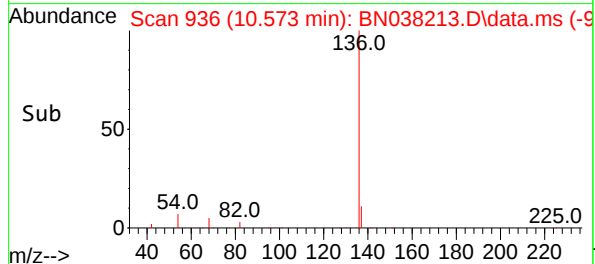
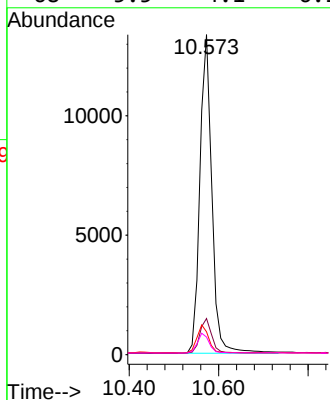
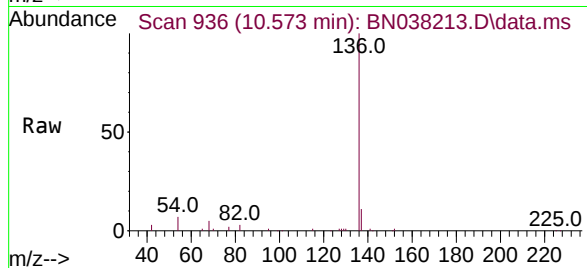




#7  
Naphthalene-d8  
Concen: 0.400 ng  
RT: 10.573 min Scan# 936  
Delta R.T. -0.000 min  
Lab File: BN038213.D  
Acq: 26 Nov 2025 21:12

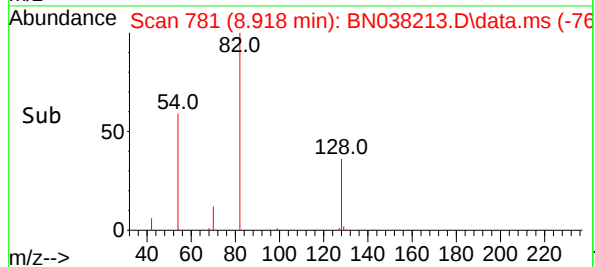
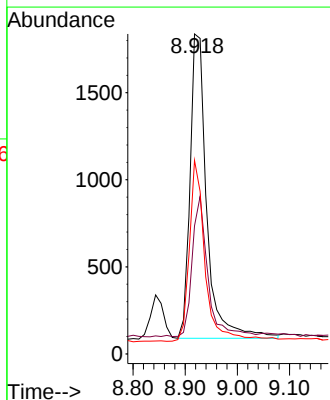
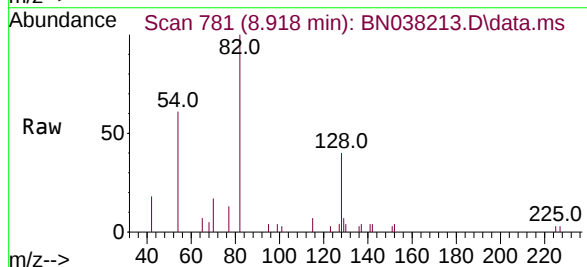
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC0.2

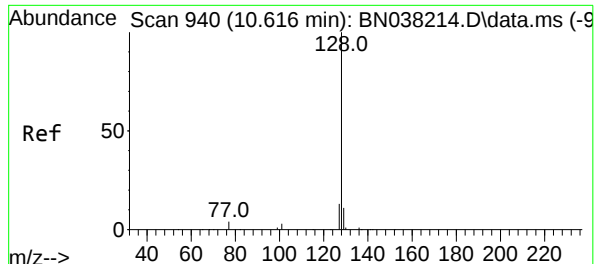
|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 136   | Resp: | 24762 |
| Ion Ratio | Lower | Upper |       |
| 136       | 100   |       |       |
| 137       | 11.3  | 8.9   | 13.3  |
| 54        | 7.1   | 5.4   | 8.0   |
| 68        | 5.5   | 4.1   | 6.1   |



#8  
Nitrobenzene-d5  
Concen: 0.196 ng  
RT: 8.918 min Scan# 781  
Delta R.T. -0.000 min  
Lab File: BN038213.D  
Acq: 26 Nov 2025 21:12

|           |       |       |      |
|-----------|-------|-------|------|
| Tgt Ion:  | 82    | Resp: | 3887 |
| Ion Ratio | Lower | Upper |      |
| 82        | 100   |       |      |
| 128       | 40.0  | 32.6  | 48.8 |
| 54        | 60.5  | 45.4  | 68.0 |





#9

Naphthalene

Concen: 0.198 ng

RT: 10.616 min Scan# 940

Delta R.T. -0.000 min

Lab File: BN038213.D

Acq: 26 Nov 2025 21:12

Instrument :

BNA\_N

ClientSampleId :

SSTDICC0.2

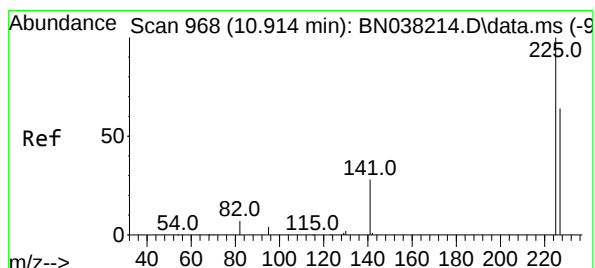
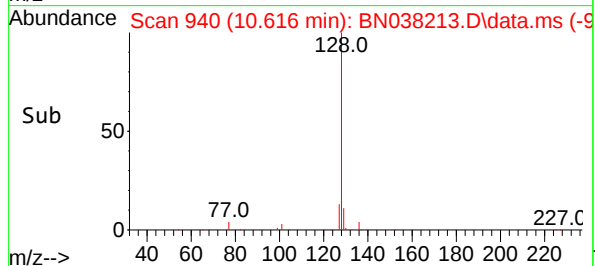
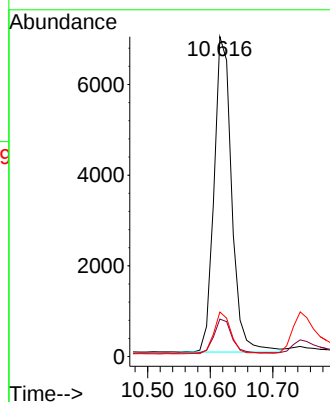
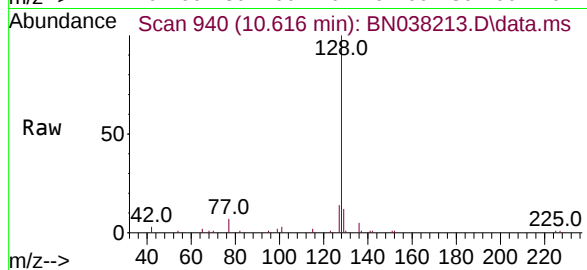
Tgt Ion:128 Resp: 13644

Ion Ratio Lower Upper

128 100

129 11.7 9.1 13.7

127 13.9 10.6 16.0



#10

Hexachlorobutadiene

Concen: 0.203 ng

RT: 10.914 min Scan# 968

Delta R.T. -0.000 min

Lab File: BN038213.D

Acq: 26 Nov 2025 21:12

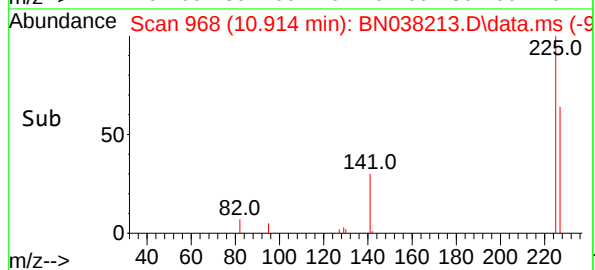
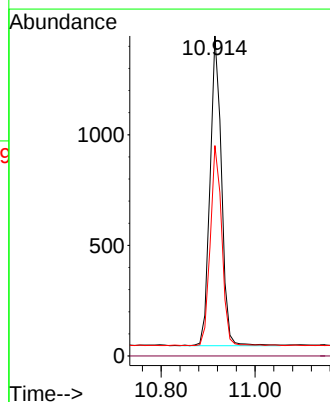
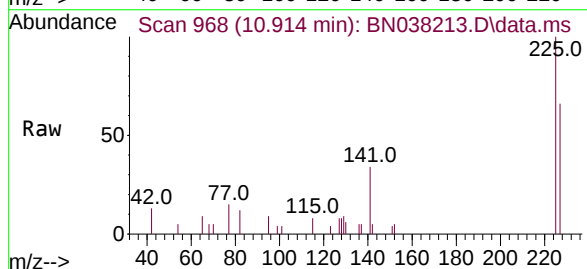
Tgt Ion:225 Resp: 2378

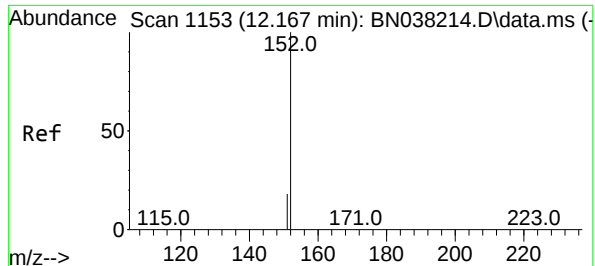
Ion Ratio Lower Upper

225 100

223 0.0 0.0 0.0

227 64.4 50.5 75.7

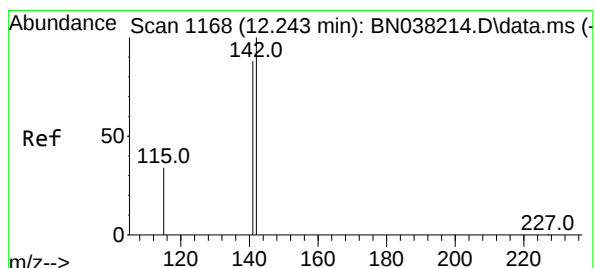
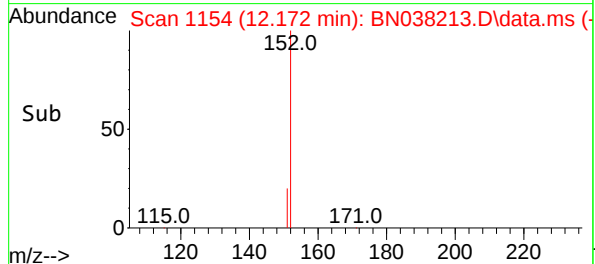
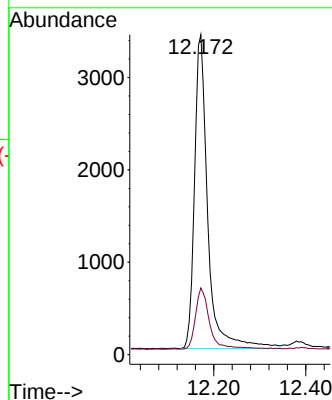
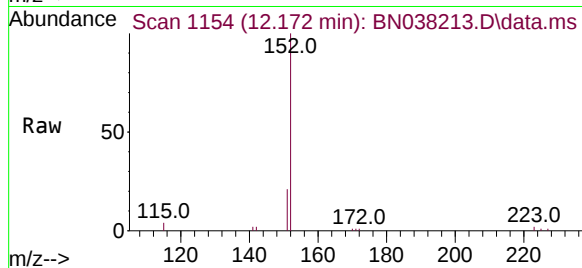




#11  
2-Methylnaphthalene-d10  
Concen: 0.193 ng  
RT: 12.172 min Scan# 1153  
Delta R.T. 0.005 min  
Lab File: BN038213.D  
Acq: 26 Nov 2025 21:12

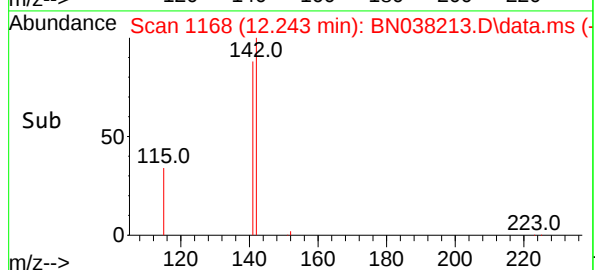
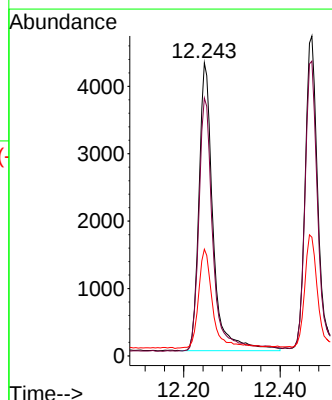
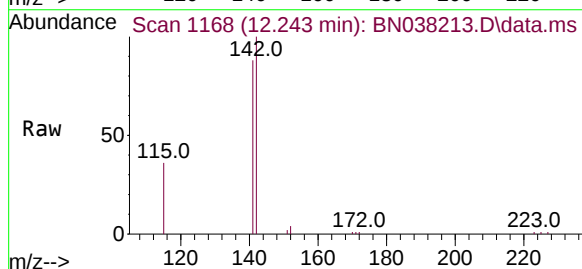
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC0.2

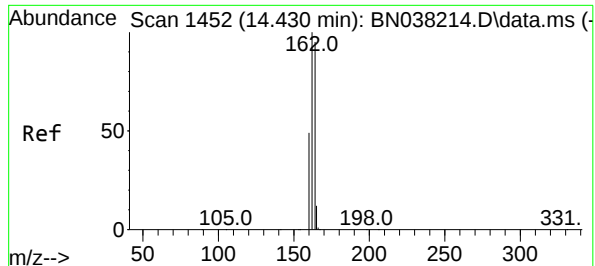
Tgt Ion:152 Resp: 6785  
Ion Ratio Lower Upper  
152 100  
151 20.8 16.7 25.1



#12  
2-Methylnaphthalene  
Concen: 0.191 ng  
RT: 12.243 min Scan# 1168  
Delta R.T. -0.000 min  
Lab File: BN038213.D  
Acq: 26 Nov 2025 21:12

Tgt Ion:142 Resp: 8631  
Ion Ratio Lower Upper  
142 100  
141 88.0 70.9 106.3  
115 36.4 27.7 41.5





#13

Acenaphthene-d10

Concen: 0.400 ng

RT: 14.430 min Scan# 1452

Delta R.T. -0.000 min

Lab File: BN038213.D

Acq: 26 Nov 2025 21:12

Instrument :

BNA\_N

ClientSampleId :

SSTDIC0.2

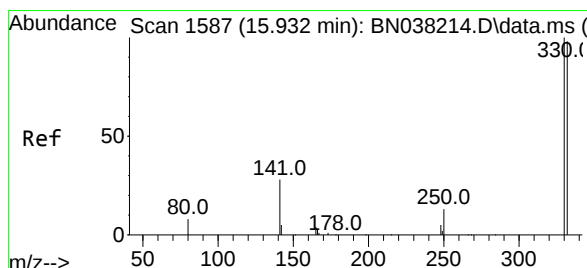
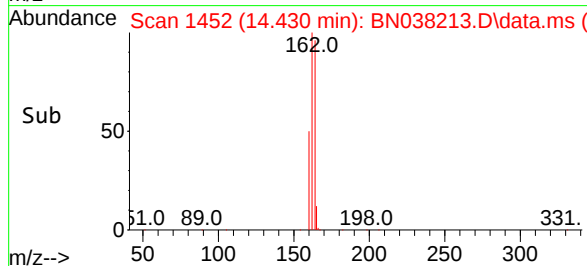
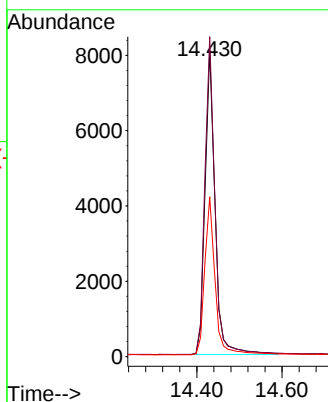
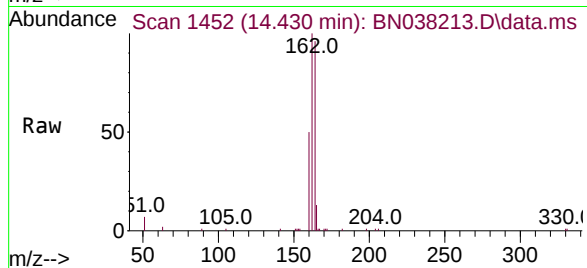
Tgt Ion:164 Resp: 13187

Ion Ratio Lower Upper

164 100

162 104.5 83.8 125.8

160 52.2 41.6 62.4



#14

2,4,6-Tribromophenol

Concen: 0.158 ng

RT: 15.932 min Scan# 1587

Delta R.T. 0.000 min

Lab File: BN038213.D

Acq: 26 Nov 2025 21:12

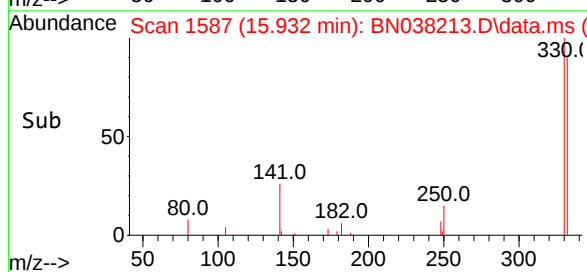
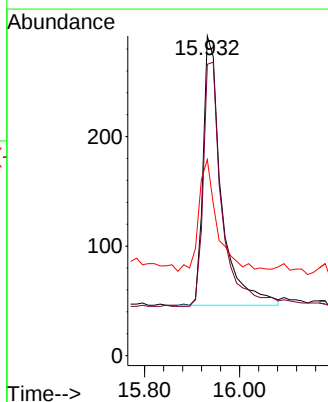
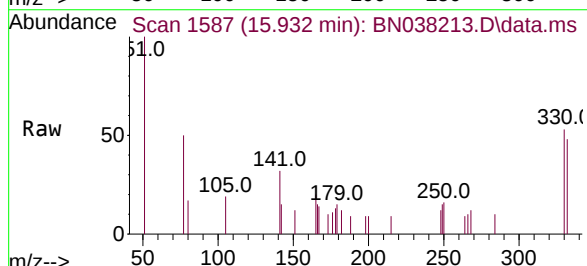
Tgt Ion:330 Resp: 657

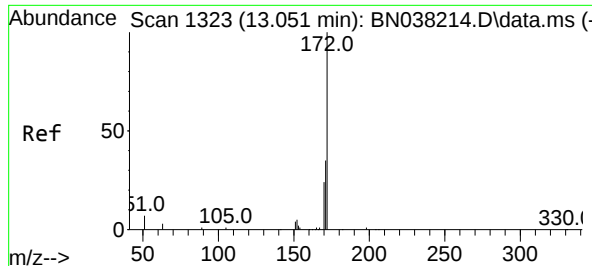
Ion Ratio Lower Upper

330 100

332 93.0 77.8 116.6

141 42.0 33.0 49.4





#15

2-Fluorobiphenyl

Concen: 0.200 ng

RT: 13.051 min Scan# 1323

Delta R.T. 0.000 min

Lab File: BN038213.D

Acq: 26 Nov 2025 21:12

Instrument :

BNA\_N

ClientSampleId :

SSTDICC0.2

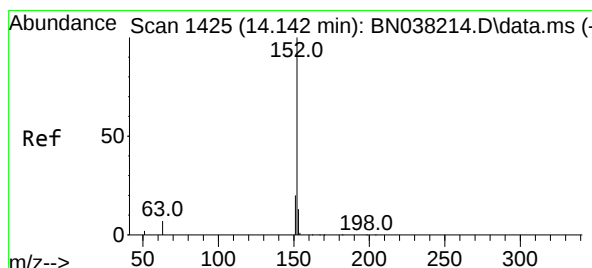
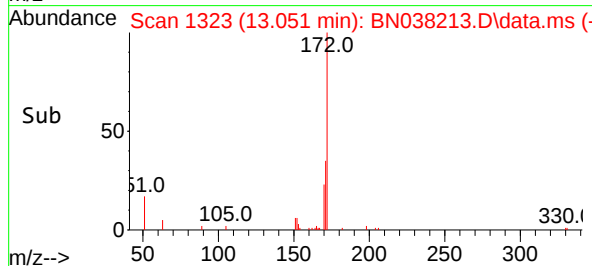
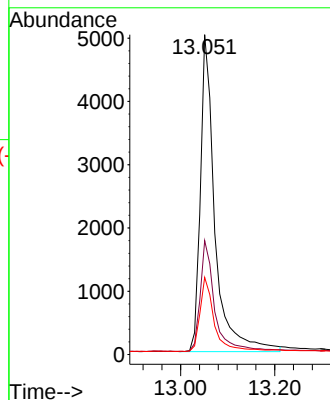
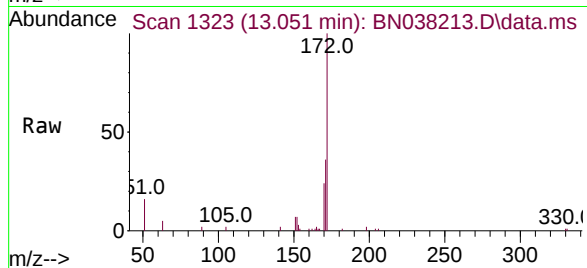
Tgt Ion:172 Resp: 10212

Ion Ratio Lower Upper

172 100

171 35.6 28.1 42.1

170 24.1 19.1 28.7



#16

Acenaphthylene

Concen: 0.188 ng

RT: 14.152 min Scan# 1426

Delta R.T. 0.011 min

Lab File: BN038213.D

Acq: 26 Nov 2025 21:12

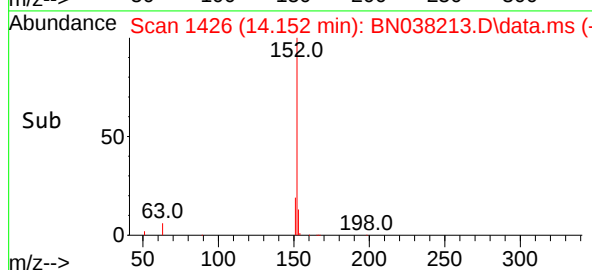
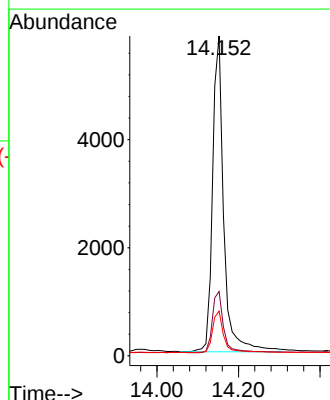
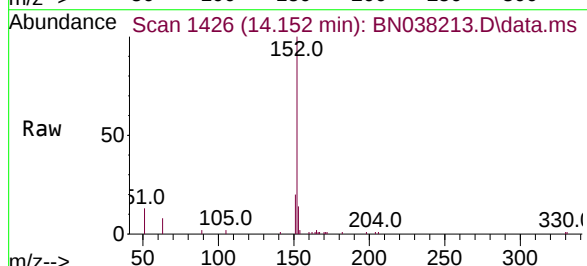
Tgt Ion:152 Resp: 11108

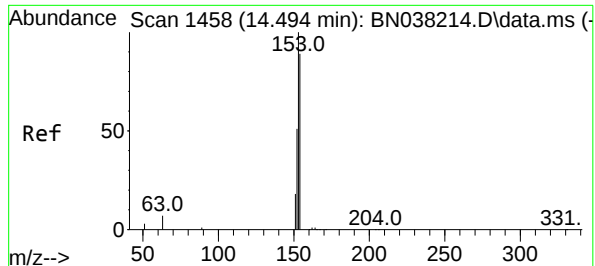
Ion Ratio Lower Upper

152 100

151 19.9 15.6 23.4

153 13.2 10.6 15.8

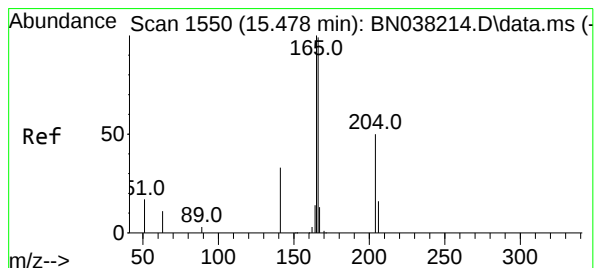
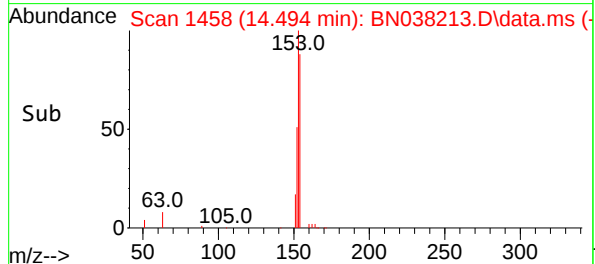
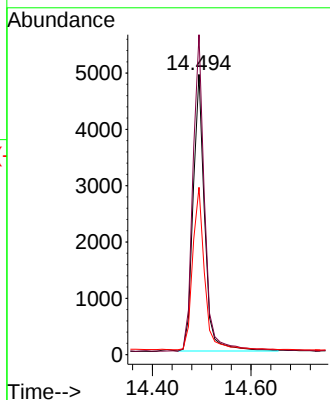
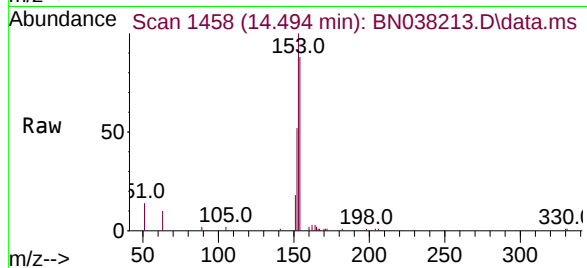




#17  
Acenaphthene  
Concen: 0.194 ng  
RT: 14.494 min Scan# 1458  
Delta R.T. -0.000 min  
Lab File: BN038213.D  
Acq: 26 Nov 2025 21:12

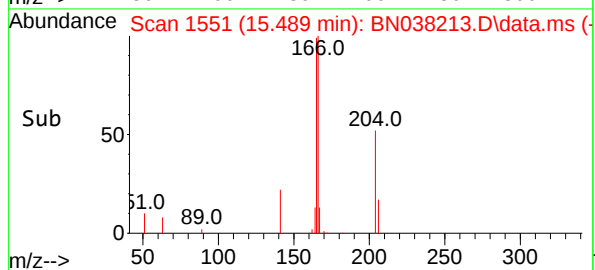
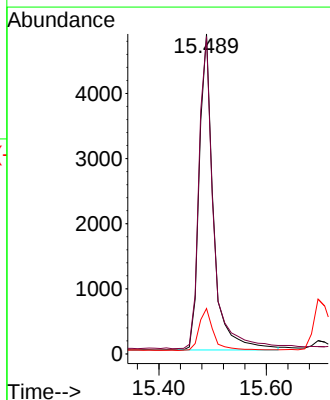
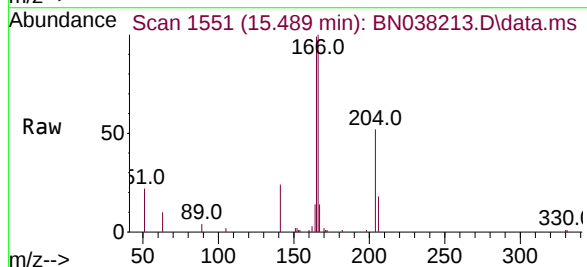
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC0.2

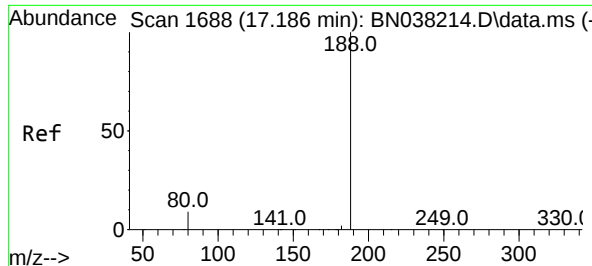
Tgt Ion:154 Resp: 7968  
Ion Ratio Lower Upper  
154 100  
153 116.3 91.1 136.7  
152 60.6 48.2 72.2



#18  
Fluorene  
Concen: 0.179 ng  
RT: 15.489 min Scan# 1551  
Delta R.T. 0.011 min  
Lab File: BN038213.D  
Acq: 26 Nov 2025 21:12

Tgt Ion:166 Resp: 9508  
Ion Ratio Lower Upper  
166 100  
165 100.7 78.7 118.1  
167 13.5 10.9 16.3





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 17.186 min Scan# 1688

Delta R.T. 0.000 min

Lab File: BN038213.D

Acq: 26 Nov 2025 21:12

Instrument :

BNA\_N

ClientSampleId :

SSTDICC0.2

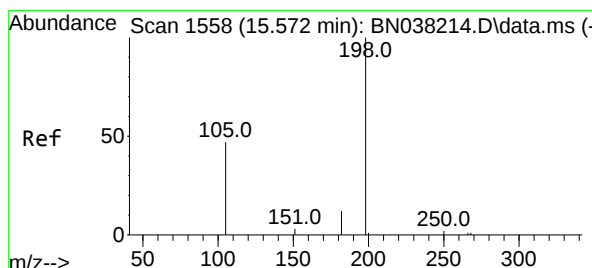
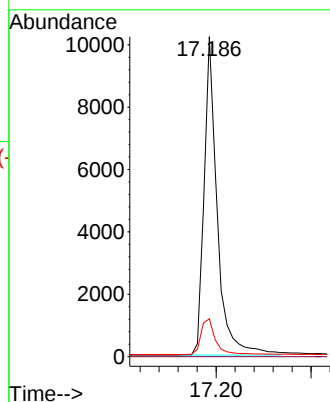
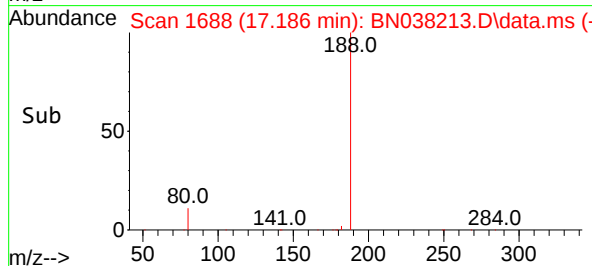
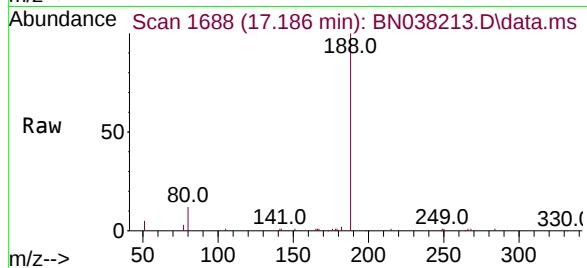
Tgt Ion:188 Resp: 19574

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 11.8 7.7 11.5#



#20

4,6-Dinitro-2-methylphenol

Concen: 0.227 ng

RT: 15.597 min Scan# 1560

Delta R.T. 0.025 min

Lab File: BN038213.D

Acq: 26 Nov 2025 21:12

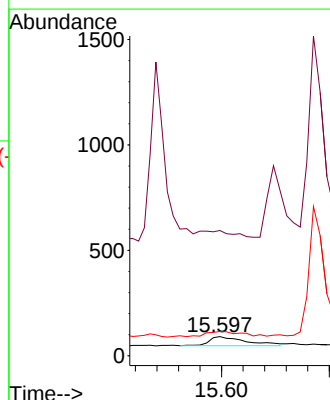
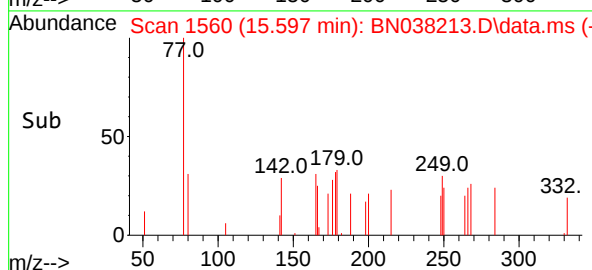
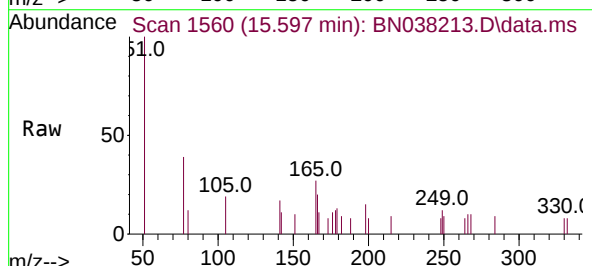
Tgt Ion:198 Resp: 206

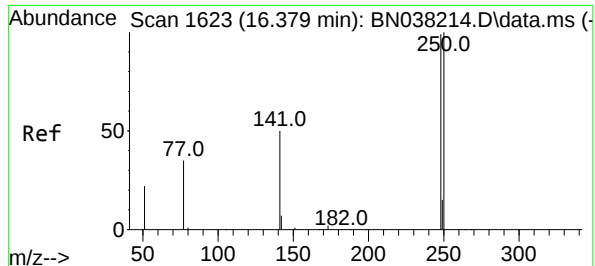
Ion Ratio Lower Upper

198 100

51 652.7 205.1 307.7#

105 126.4 61.6 92.4#

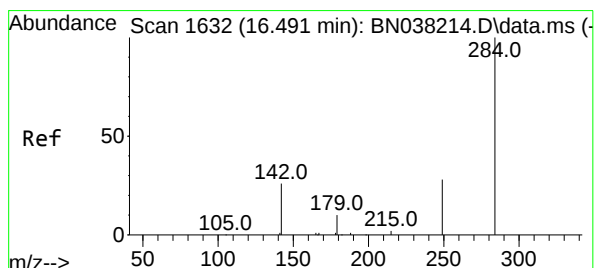
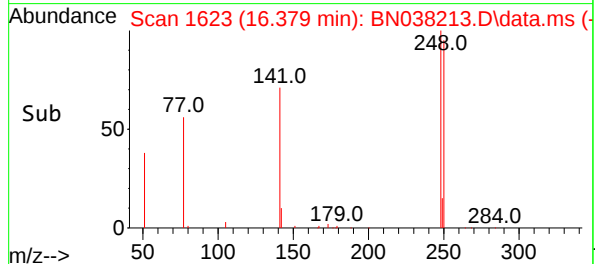
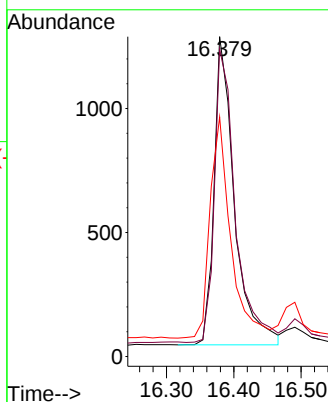
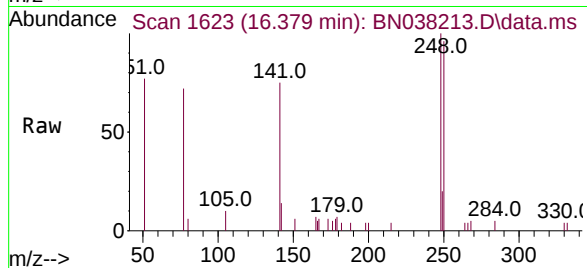




#21  
4-Bromophenyl-phenylether  
Concen: 0.193 ng  
RT: 16.379 min Scan# 1623  
Delta R.T. -0.000 min  
Lab File: BN038213.D  
Acq: 26 Nov 2025 21:12

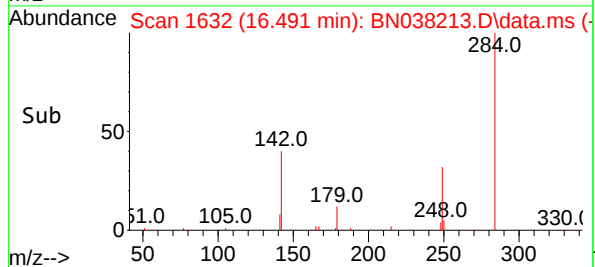
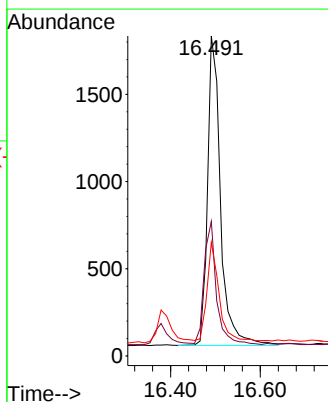
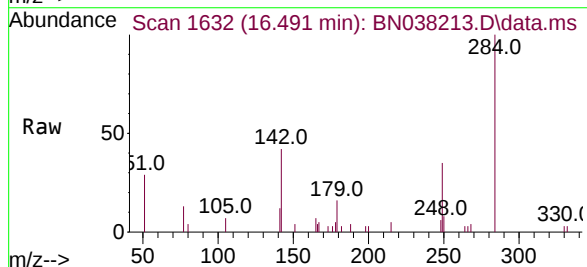
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC0.2

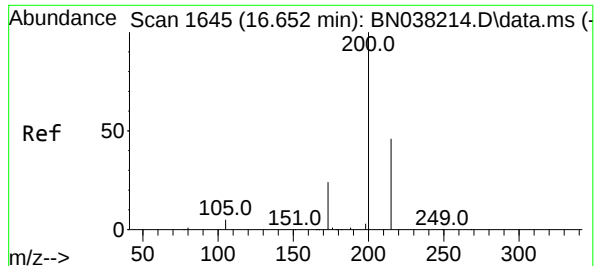
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 248     | 100   |       |       |
| 250     | 96.1  | 80.8  | 121.2 |
| 141     | 74.9  | 41.0  | 61.6  |



#22  
Hexachlorobenzene  
Concen: 0.215 ng  
RT: 16.491 min Scan# 1632  
Delta R.T. -0.000 min  
Lab File: BN038213.D  
Acq: 26 Nov 2025 21:12

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 284     | 100   |       |       |
| 142     | 37.4  | 30.5  | 45.7  |
| 249     | 29.1  | 23.8  | 35.8  |

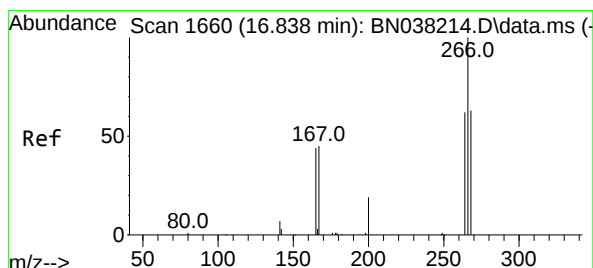
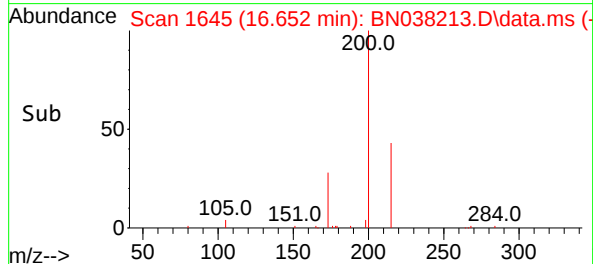
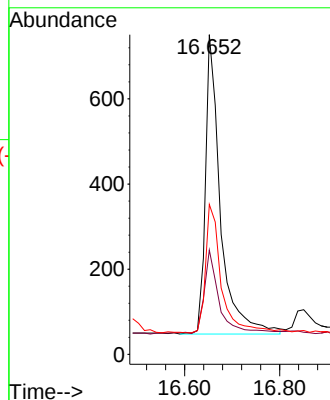
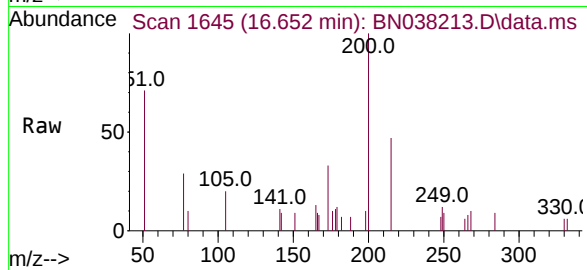




#23  
Atrazine  
Concen: 0.177 ng  
RT: 16.652 min Scan# 1645  
Delta R.T. -0.000 min  
Lab File: BN038213.D  
Acq: 26 Nov 2025 21:12

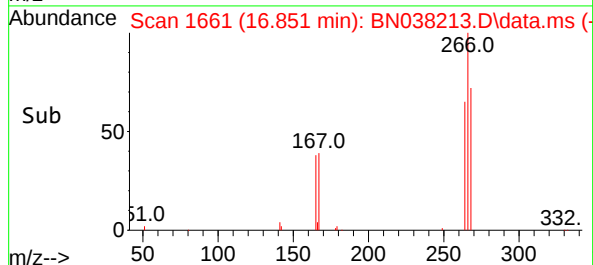
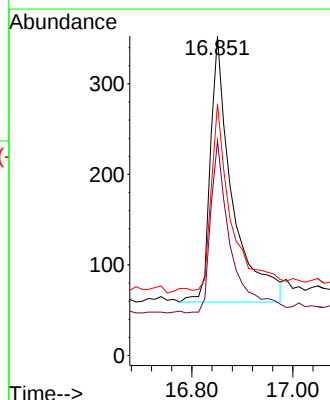
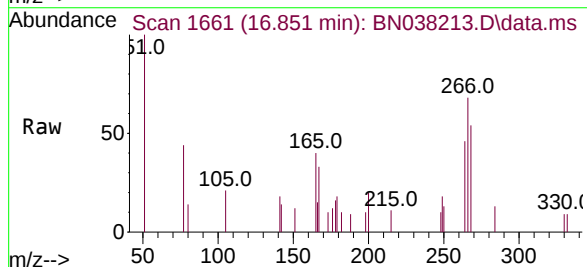
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC0.2

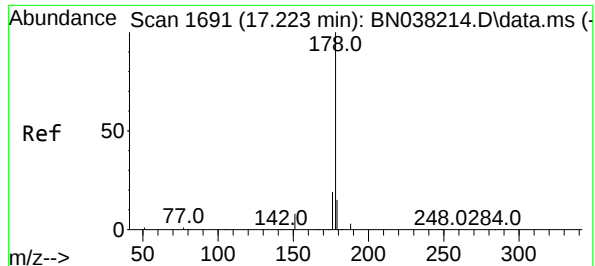
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 200     | 100   |       |       |
| 173     | 32.6  | 21.0  | 31.6# |
| 215     | 46.9  | 37.8  | 56.8  |



#24  
Pentachlorophenol  
Concen: 0.193 ng  
RT: 16.851 min Scan# 1661  
Delta R.T. 0.013 min  
Lab File: BN038213.D  
Acq: 26 Nov 2025 21:12

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 266     | 100   |       |       |
| 264     | 60.1  | 48.9  | 73.3  |
| 268     | 70.3  | 50.2  | 75.2  |





#25

Phenanthrene

Concen: 0.192 ng

RT: 17.223 min Scan# 1691

Delta R.T. -0.000 min

Lab File: BN038213.D

Acq: 26 Nov 2025 21:12

Instrument :

BNA\_N

ClientSampleId :

SSTDICC0.2

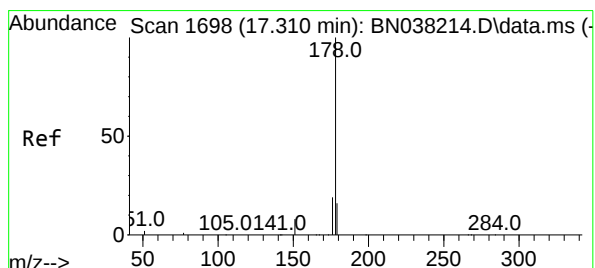
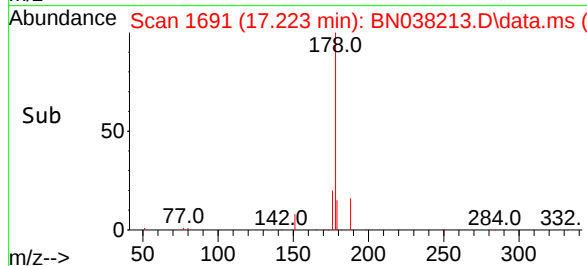
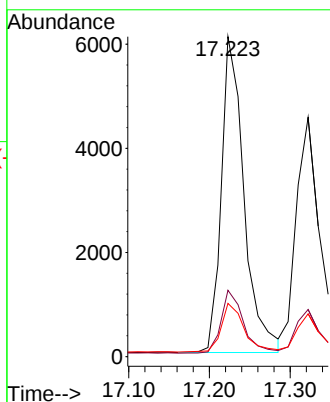
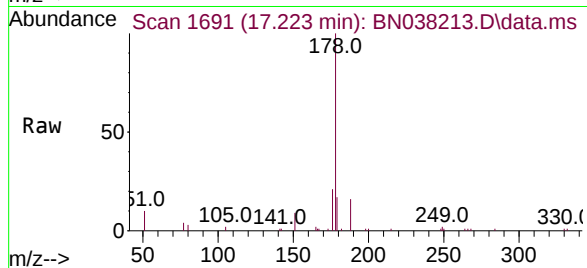
Tgt Ion:178 Resp: 11817

Ion Ratio Lower Upper

178 100

176 19.5 15.3 22.9

179 15.6 12.0 18.0



#26

Anthracene

Concen: 0.186 ng

RT: 17.322 min Scan# 1699

Delta R.T. 0.012 min

Lab File: BN038213.D

Acq: 26 Nov 2025 21:12

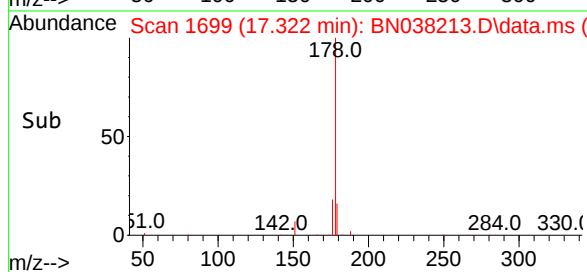
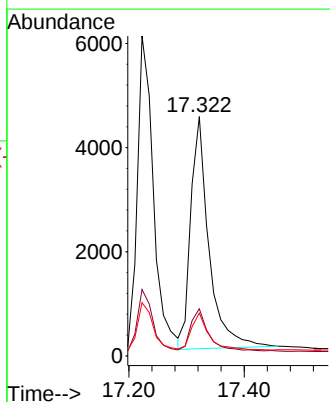
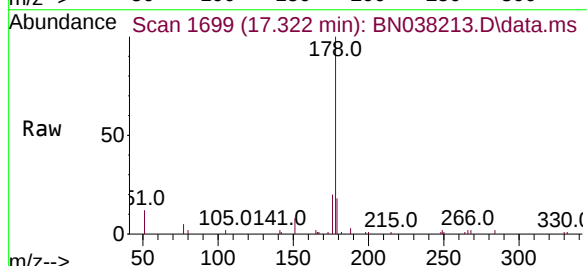
Tgt Ion:178 Resp: 9765

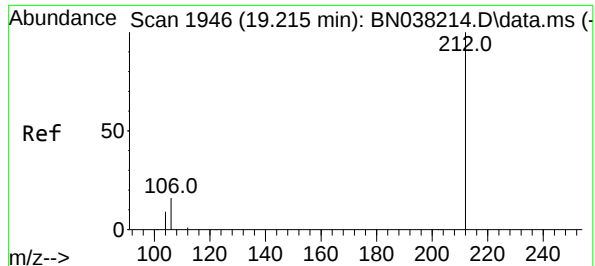
Ion Ratio Lower Upper

178 100

176 18.4 14.7 22.1

179 15.8 12.3 18.5





#27

Fluoranthene-d10

Concen: 0.195 ng

RT: 19.220 min Scan# 1946

Delta R.T. 0.005 min

Lab File: BN038213.D

Acq: 26 Nov 2025 21:12

Instrument :

BNA\_N

ClientSampleId :

SSTDICC0.2

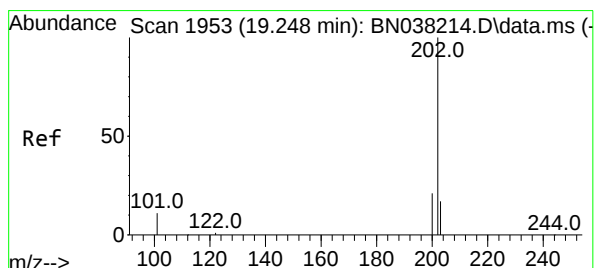
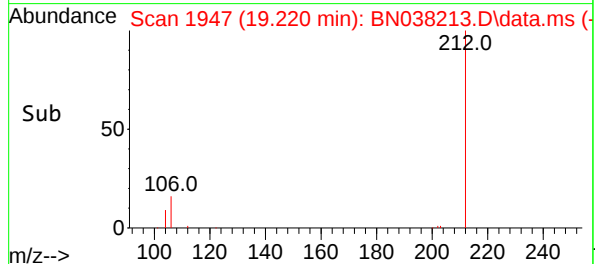
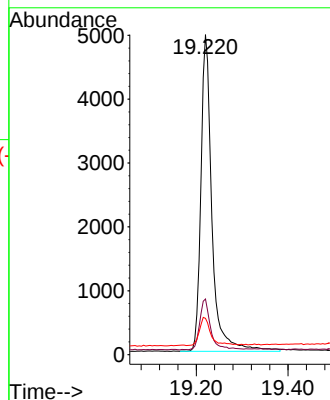
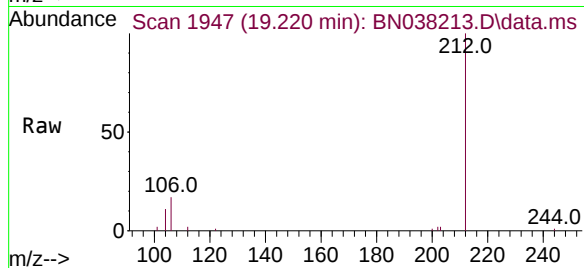
Tgt Ion:212 Resp: 8268

Ion Ratio Lower Upper

212 100

106 15.6 12.7 19.1

104 9.1 7.3 10.9



#28

Fluoranthene

Concen: 0.190 ng

RT: 19.248 min Scan# 1953

Delta R.T. -0.000 min

Lab File: BN038213.D

Acq: 26 Nov 2025 21:12

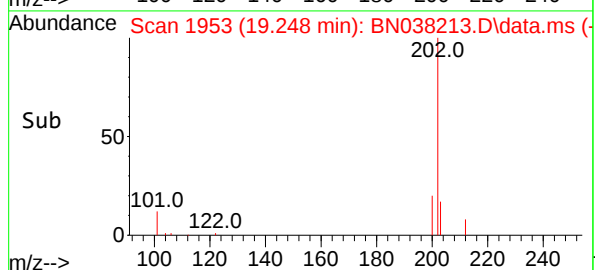
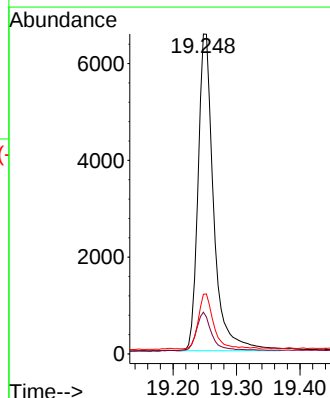
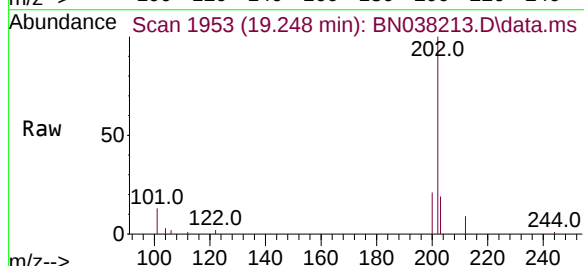
Tgt Ion:202 Resp: 11226

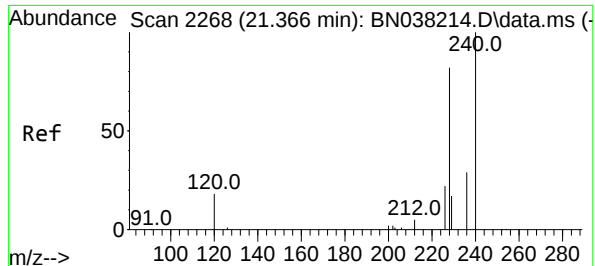
Ion Ratio Lower Upper

202 100

101 11.8 9.8 14.6

203 16.9 13.6 20.4





#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.375 min Scan# 21

Delta R.T. 0.009 min

Lab File: BN038213.D

Acq: 26 Nov 2025 21:12

Instrument :

BNA\_N

ClientSampleId :

SSTDICC0.2

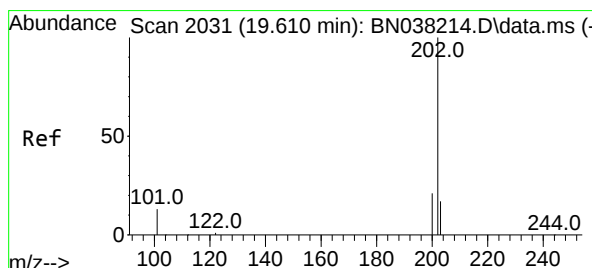
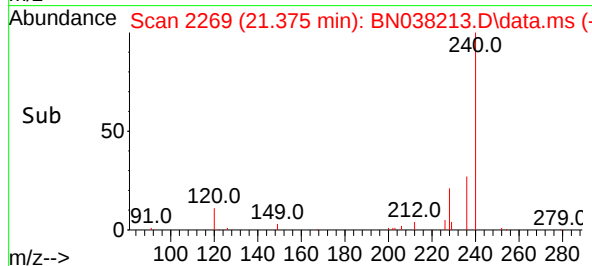
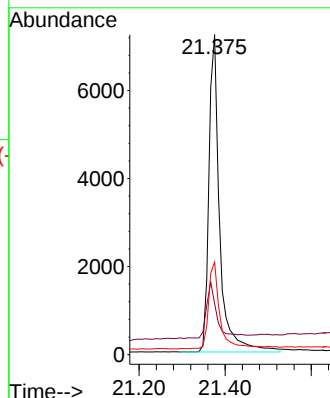
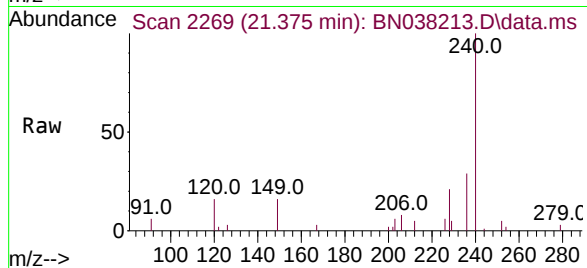
Tgt Ion:240 Resp: 12487

Ion Ratio Lower Upper

240 100

120 15.9 18.1 27.1#

236 28.9 24.2 36.4



#30

Pyrene

Concen: 0.181 ng

RT: 19.610 min Scan# 2031

Delta R.T. -0.000 min

Lab File: BN038213.D

Acq: 26 Nov 2025 21:12

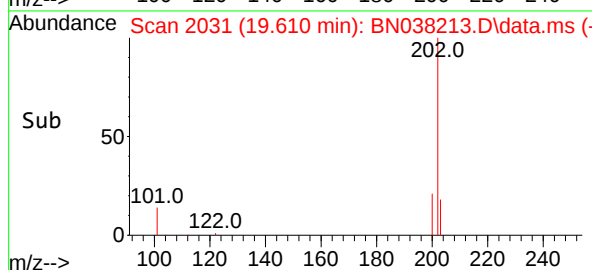
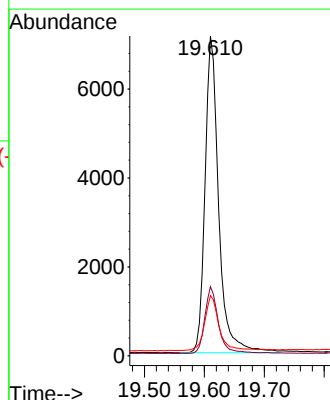
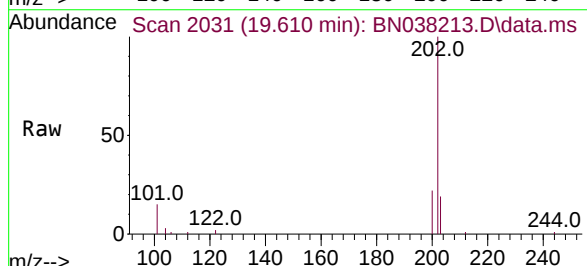
Tgt Ion:202 Resp: 11263

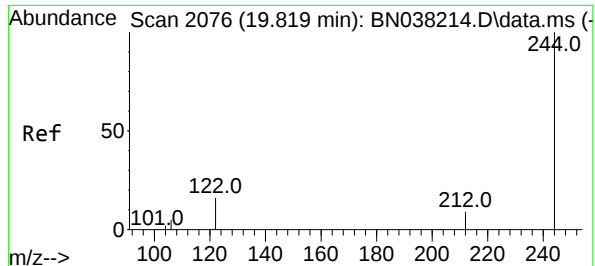
Ion Ratio Lower Upper

202 100

200 20.8 16.8 25.2

203 18.1 14.4 21.6

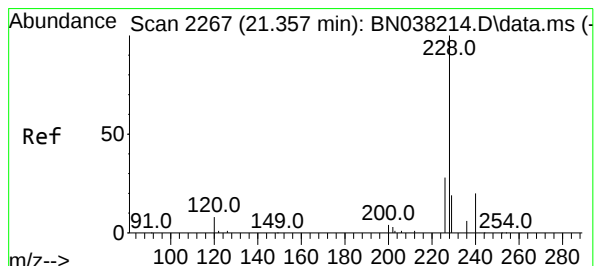
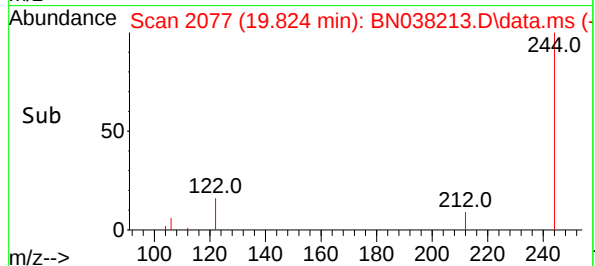
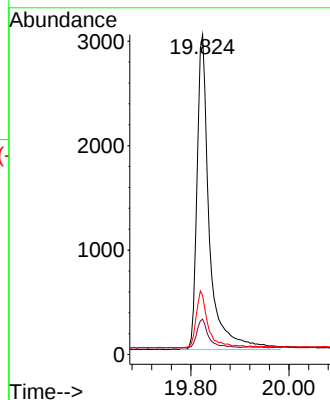
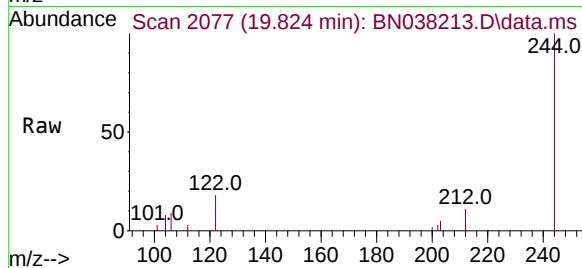




#31  
Terphenyl-d14  
Concen: 0.183 ng  
RT: 19.824 min Scan# 2076  
Delta R.T. 0.005 min  
Lab File: BN038213.D  
Acq: 26 Nov 2025 21:12

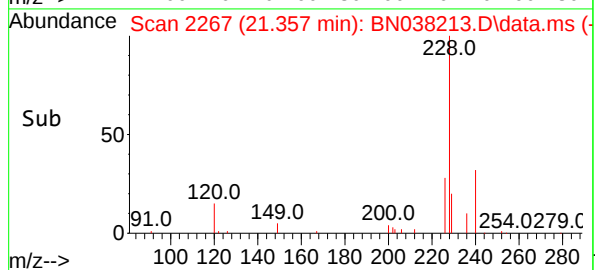
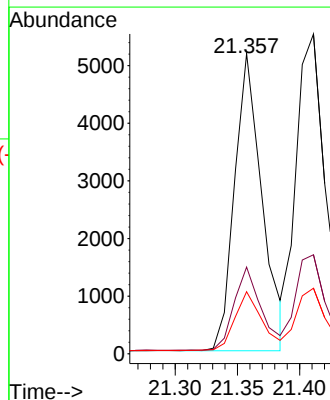
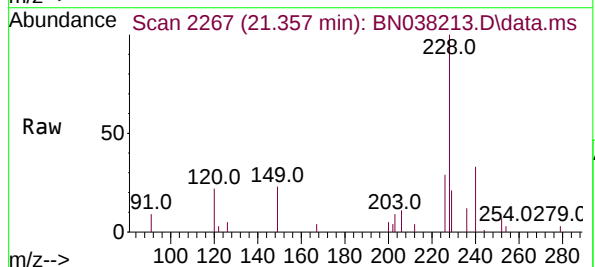
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC0.2

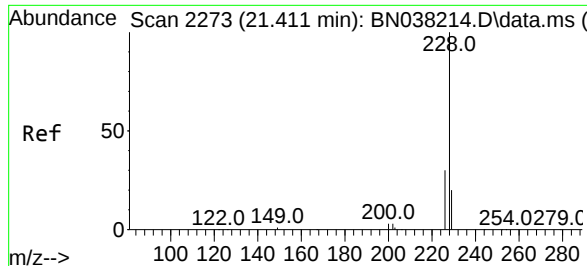
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 244     | 100   |       |       |
| 212     | 11.1  | 7.7   | 11.5  |
| 122     | 18.5  | 13.6  | 20.4  |



#32  
Benzo(a)anthracene  
Concen: 0.188 ng  
RT: 21.357 min Scan# 2267  
Delta R.T. -0.000 min  
Lab File: BN038213.D  
Acq: 26 Nov 2025 21:12

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 228     | 100   |       |       |
| 226     | 28.9  | 22.6  | 33.8  |
| 229     | 20.7  | 15.8  | 23.8  |





#33

Chrysene

Concen: 0.205 ng

RT: 21.411 min Scan# 21

Delta R.T. -0.000 min

Lab File: BN038213.D

Acq: 26 Nov 2025 21:12

Instrument :

BNA\_N

ClientSampleId :

SSTDIC0.2

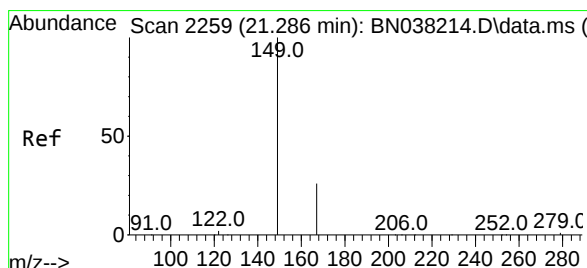
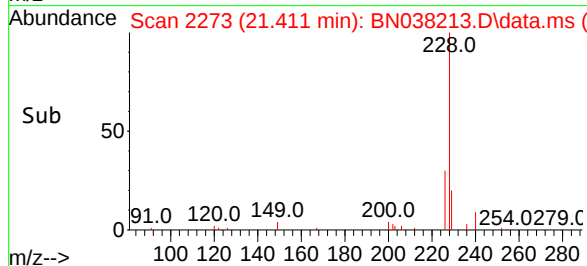
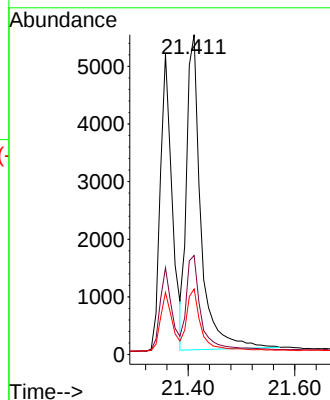
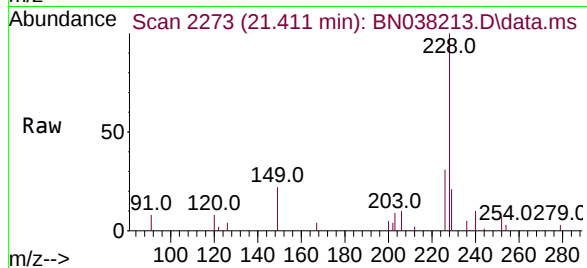
Tgt Ion:228 Resp: 10232

Ion Ratio Lower Upper

228 100

226 31.0 23.8 35.8

229 20.5 16.1 24.1



#34

Bis(2-ethylhexyl)phthalate

Concen: 0.210 ng

RT: 21.286 min Scan# 2259

Delta R.T. -0.000 min

Lab File: BN038213.D

Acq: 26 Nov 2025 21:12

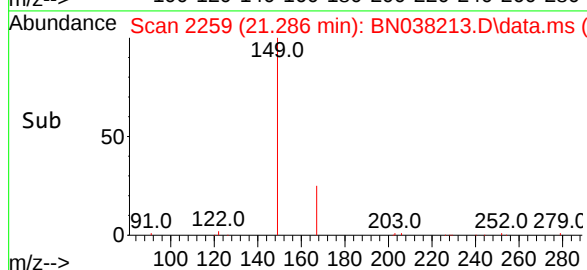
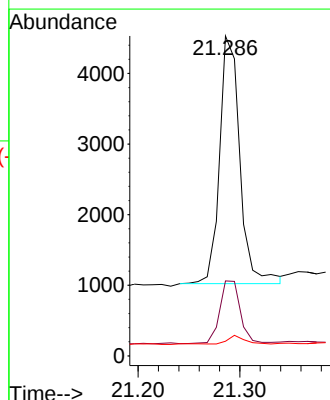
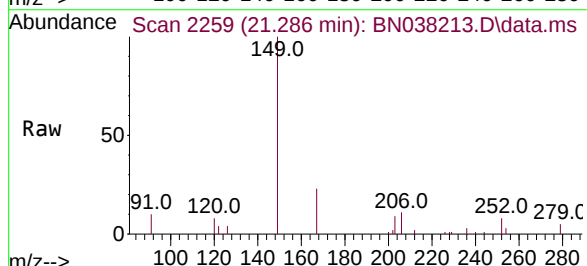
Tgt Ion:149 Resp: 4872

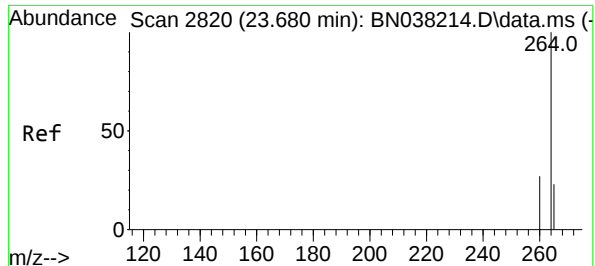
Ion Ratio Lower Upper

149 100

167 25.8 20.7 31.1

279 2.8 2.5 3.7





#35

Perylene-d12

Concen: 0.400 ng

RT: 23.680 min Scan# 2820

Delta R.T. -0.000 min

Lab File: BN038213.D

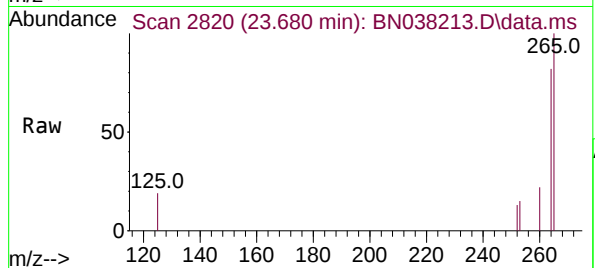
Acq: 26 Nov 2025 21:12

Instrument :

BNA\_N

ClientSampleId :

SSTDICC0.2



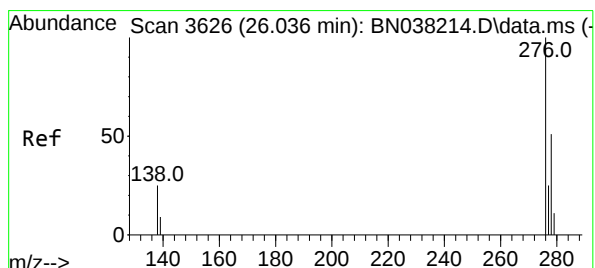
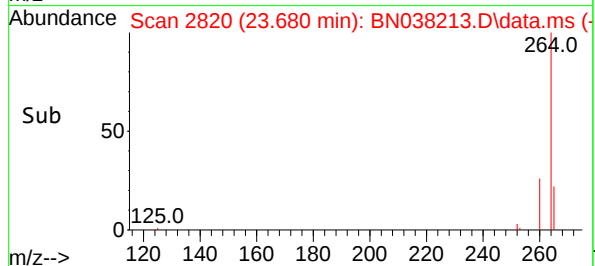
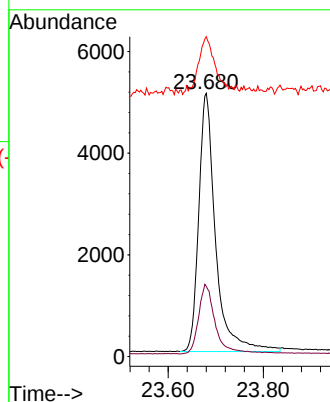
Tgt Ion:264 Resp: 12455

Ion Ratio Lower Upper

264 100

260 26.7 21.7 32.5

265 121.6 98.0 147.0



#36

Indeno(1,2,3-cd)pyrene

Concen: 0.185 ng

RT: 26.039 min Scan# 3627

Delta R.T. 0.003 min

Lab File: BN038213.D

Acq: 26 Nov 2025 21:12

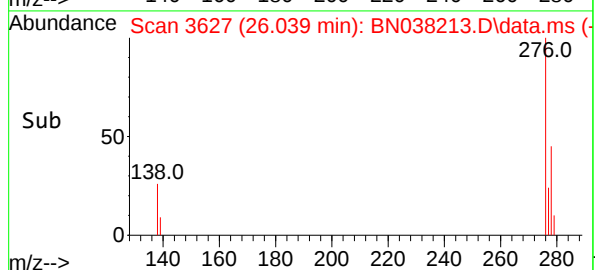
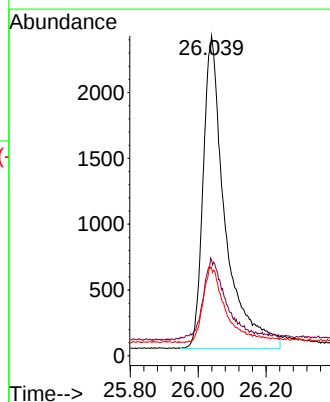
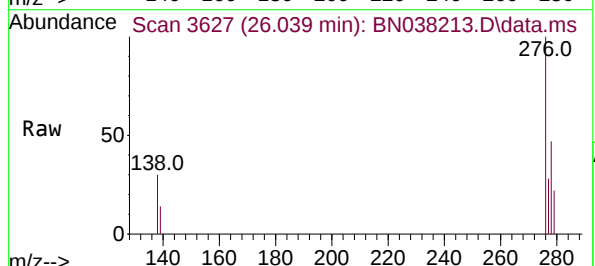
Tgt Ion:276 Resp: 10679

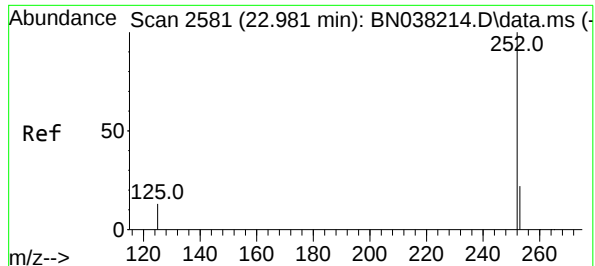
Ion Ratio Lower Upper

276 100

138 24.1 21.4 32.2

277 22.8 19.1 28.7





#37

Benzo(b)fluoranthene

Concen: 0.189 ng

RT: 22.984 min Scan# 21

Delta R.T. 0.003 min

Lab File: BN038213.D

Acq: 26 Nov 2025 21:12

Instrument :

BNA\_N

ClientSampleId :

SSTDICC0.2

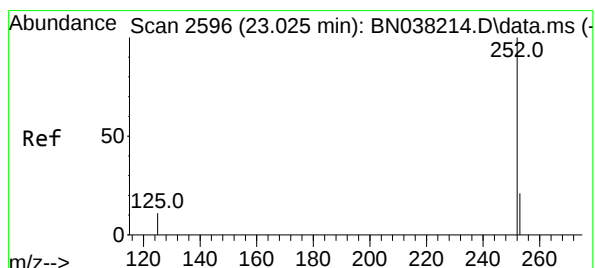
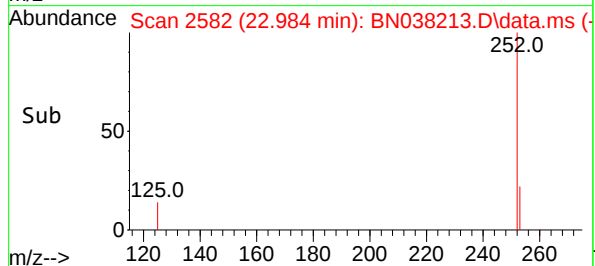
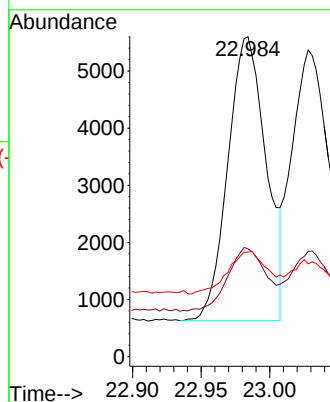
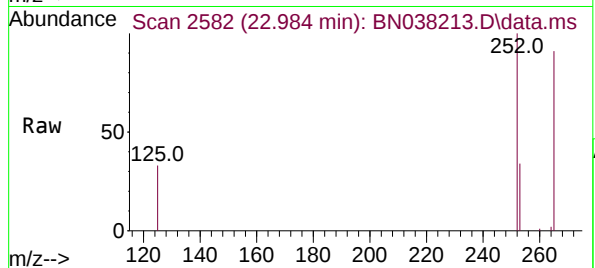
Tgt Ion:252 Resp: 9683

Ion Ratio Lower Upper

252 100

253 33.7 22.2 33.4#

125 32.6 18.0 27.0#



#38

Benzo(k)fluoranthene

Concen: 0.192 ng

RT: 23.028 min Scan# 2597

Delta R.T. 0.003 min

Lab File: BN038213.D

Acq: 26 Nov 2025 21:12

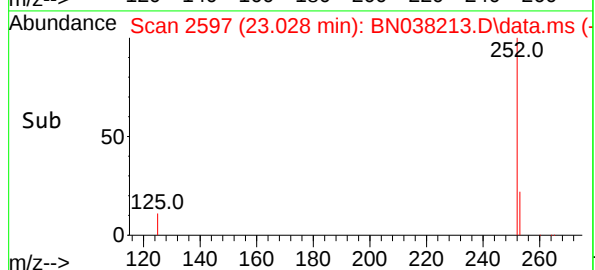
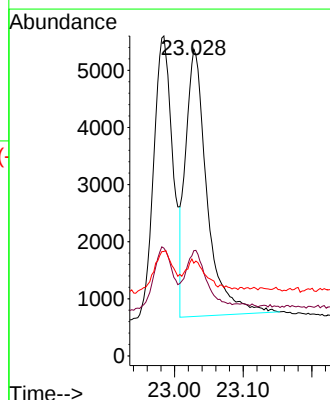
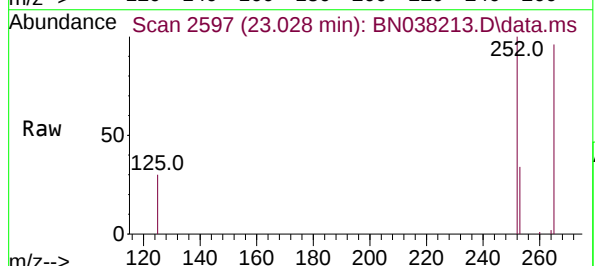
Tgt Ion:252 Resp: 10204

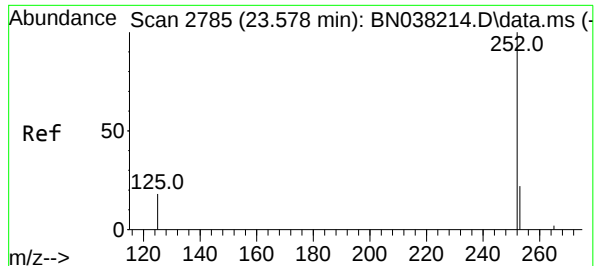
Ion Ratio Lower Upper

252 100

253 34.3 22.4 33.6#

125 30.2 17.5 26.3#





#39

Benzo(a)pyrene

Concen: 0.187 ng

RT: 23.581 min Scan# 21

Delta R.T. 0.003 min

Lab File: BN038213.D

Acq: 26 Nov 2025 21:12

Instrument :

BNA\_N

ClientSampleId :

SSTDIC0.2

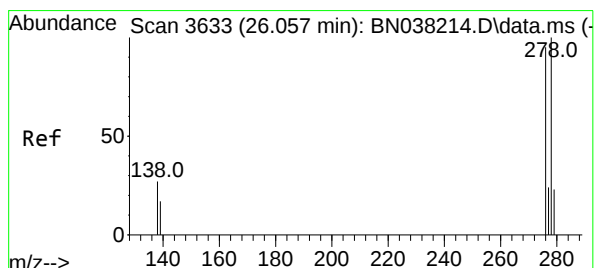
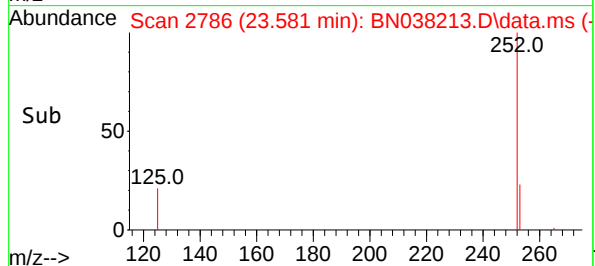
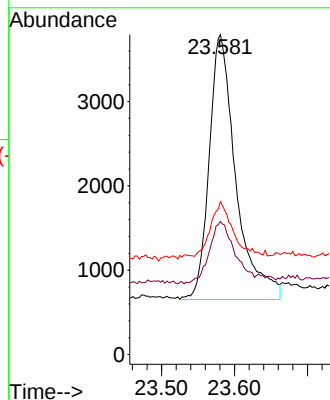
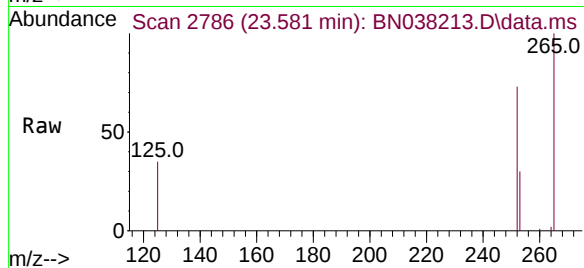
Tgt Ion:252 Resp: 7993

Ion Ratio Lower Upper

252 100

253 41.6 25.3 37.9#

125 47.8 25.2 37.8#



#40

Dibenzo(a,h)anthracene

Concen: 0.176 ng

RT: 26.054 min Scan# 3632

Delta R.T. -0.003 min

Lab File: BN038213.D

Acq: 26 Nov 2025 21:12

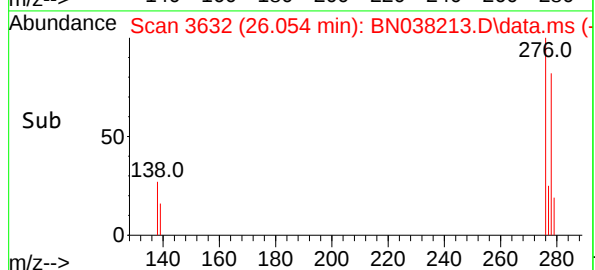
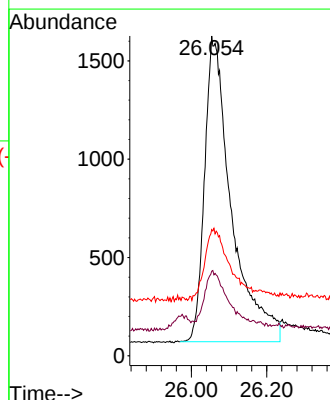
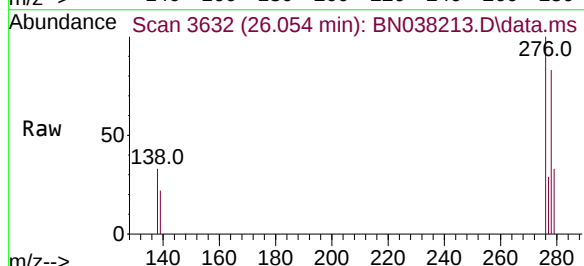
Tgt Ion:278 Resp: 7682

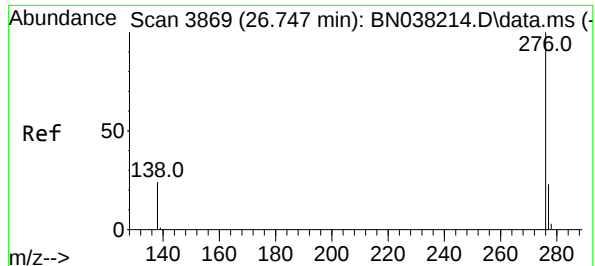
Ion Ratio Lower Upper

278 100

139 26.5 17.6 26.4#

279 39.5 24.2 36.4#





#41

Benzo(g,h,i)perylene

Concen: 0.190 ng

RT: 26.753 min Scan# 38

Delta R.T. 0.006 min

Lab File: BN038213.D

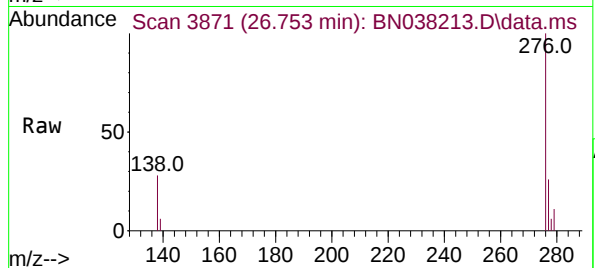
Acq: 26 Nov 2025 21:12

Instrument :

BNA\_N

ClientSampleId :

SSTDICC0.2



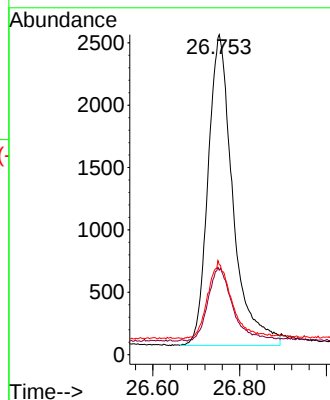
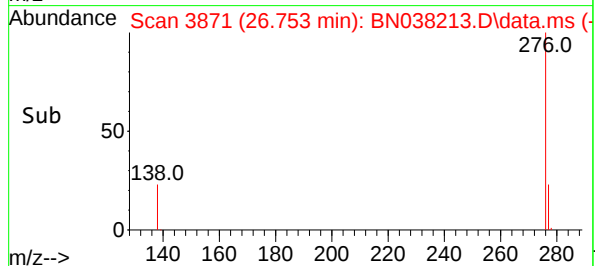
Tgt Ion:276 Resp: 9876

Ion Ratio Lower Upper

276 100

277 26.4 20.2 30.2

138 28.1 20.8 31.2



Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN112725\  
 Data File : BN038214.D  
 Acq On : 26 Nov 2025 21:48  
 Operator : RC/JU  
 Sample : SSTDICCC0.4  
 Misc :  
 ALS Vial : 14 Sample Multiplier: 1

Instrument :  
 BNA\_N  
 ClientSampleId :  
 SSTDICCC0.4

Quant Time: Nov 28 20:54:48 2025  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\8270-SIM-BN112725.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Fri Nov 28 20:22:09 2025  
 Response via : Initial Calibration

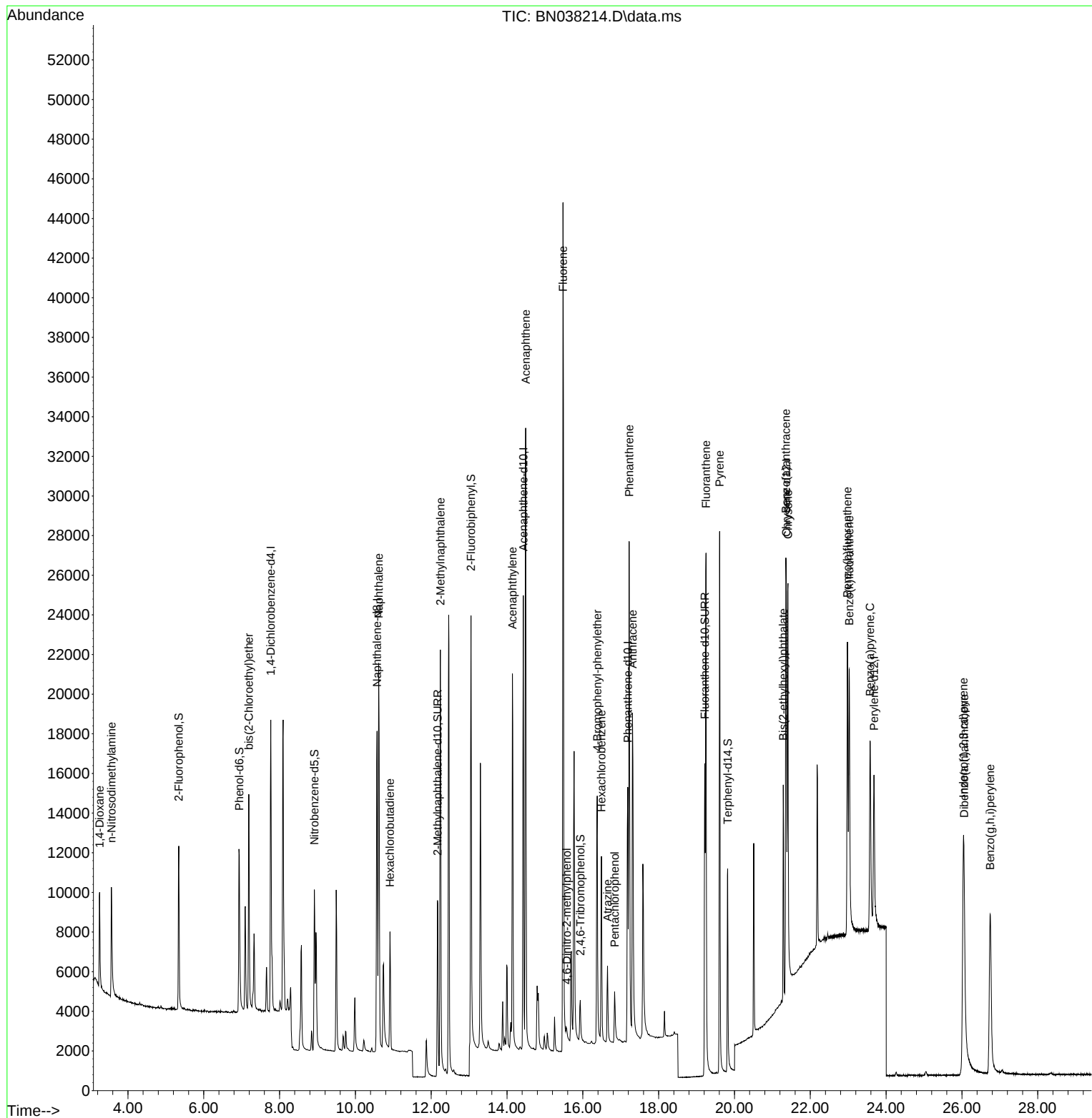
| Compound                      | R.T.   | QIon | Response | Conc  | Units | Dev(Min) |
|-------------------------------|--------|------|----------|-------|-------|----------|
| Internal Standards            |        |      |          |       |       |          |
| 1) 1,4-Dichlorobenzene-d4     | 7.768  | 152  | 7469     | 0.400 | ng    | 0.00     |
| 7) Naphthalene-d8             | 10.573 | 136  | 23385    | 0.400 | ng    | 0.00     |
| 13) Acenaphthene-d10          | 14.430 | 164  | 13235    | 0.400 | ng    | 0.00     |
| 19) Phenanthrene-d10          | 17.186 | 188  | 21844    | 0.400 | ng    | 0.00     |
| 29) Chrysene-d12              | 21.366 | 240  | 12804    | 0.400 | ng    | 0.00     |
| 35) Perylene-d12              | 23.680 | 264  | 11960    | 0.400 | ng    | 0.00     |
| System Monitoring Compounds   |        |      |          |       |       |          |
| 4) 2-Fluorophenol             | 5.341  | 112  | 7407     | 0.424 | ng    | 0.00     |
| 5) Phenol-d6                  | 6.937  | 99   | 9075     | 0.416 | ng    | 0.00     |
| 8) Nitrobenzene-d5            | 8.918  | 82   | 7258     | 0.388 | ng    | 0.00     |
| 11) 2-Methylnaphthalene-d10   | 12.167 | 152  | 13752    | 0.414 | ng    | 0.00     |
| 14) 2,4,6-Tribromophenol      | 15.932 | 330  | 1634     | 0.392 | ng    | 0.00     |
| 15) 2-Fluorobiphenyl          | 13.051 | 172  | 21045    | 0.412 | ng    | 0.00     |
| 27) Fluoranthene-d10          | 19.215 | 212  | 19448    | 0.410 | ng    | 0.00     |
| 31) Terphenyl-d14             | 19.819 | 244  | 12317    | 0.417 | ng    | 0.00     |
| Target Compounds              |        |      |          |       |       |          |
| 2) 1,4-Dioxane                | 3.254  | 88   | 3345     | 0.425 | ng    | 99       |
| 3) n-Nitrosodimethylamine     | 3.564  | 42   | 4054     | 0.418 | ng    | 99       |
| 6) bis(2-Chloroethyl)ether    | 7.190  | 93   | 8875     | 0.425 | ng    | 100      |
| 9) Naphthalene                | 10.616 | 128  | 26973    | 0.415 | ng    | 100      |
| 10) Hexachlorobutadiene       | 10.914 | 225  | 4678     | 0.424 | ng    | # 100    |
| 12) 2-Methylnaphthalene       | 12.243 | 142  | 17767    | 0.416 | ng    | 100      |
| 16) Acenaphthylene            | 14.142 | 152  | 23834    | 0.403 | ng    | 100      |
| 17) Acenaphthene              | 14.494 | 154  | 17100    | 0.414 | ng    | 100      |
| 18) Fluorene                  | 15.478 | 166  | 21837    | 0.409 | ng    | 100      |
| 20) 4,6-Dinitro-2-methylph... | 15.572 | 198  | 568      | 0.399 | ng    | 100      |
| 21) 4-Bromophenyl-phenylether | 16.379 | 248  | 6223     | 0.411 | ng    | 100      |
| 22) Hexachlorobenzene         | 16.491 | 284  | 7821     | 0.420 | ng    | 100      |
| 23) Atrazine                  | 16.652 | 200  | 3821     | 0.395 | ng    | 100      |
| 24) Pentachlorophenol         | 16.838 | 266  | 1841     | 0.361 | ng    | 100      |
| 25) Phenanthrene              | 17.223 | 178  | 28648    | 0.418 | ng    | 100      |
| 26) Anthracene                | 17.310 | 178  | 23328    | 0.399 | ng    | 100      |
| 28) Fluoranthene              | 19.248 | 202  | 26807    | 0.406 | ng    | 100      |
| 30) Pyrene                    | 19.610 | 202  | 26725    | 0.418 | ng    | 100      |
| 32) Benzo(a)anthracene        | 21.357 | 228  | 17510    | 0.404 | ng    | 100      |
| 33) Chrysene                  | 21.411 | 228  | 21267    | 0.416 | ng    | 100      |
| 34) Bis(2-ethylhexyl)phtha... | 21.286 | 149  | 10262    | 0.432 | ng    | 100      |
| 36) Indeno(1,2,3-cd)pyrene    | 26.036 | 276  | 22427    | 0.405 | ng    | 100      |
| 37) Benzo(b)fluoranthene      | 22.981 | 252  | 20366    | 0.415 | ng    | 100      |
| 38) Benzo(k)fluoranthene      | 23.025 | 252  | 21024    | 0.412 | ng    | 100      |
| 39) Benzo(a)pyrene            | 23.578 | 252  | 16572    | 0.403 | ng    | 100      |
| 40) Dibenzo(a,h)anthracene    | 26.057 | 278  | 16493    | 0.394 | ng    | 100      |
| 41) Benzo(g,h,i)perylene      | 26.747 | 276  | 20578    | 0.413 | ng    | 100      |

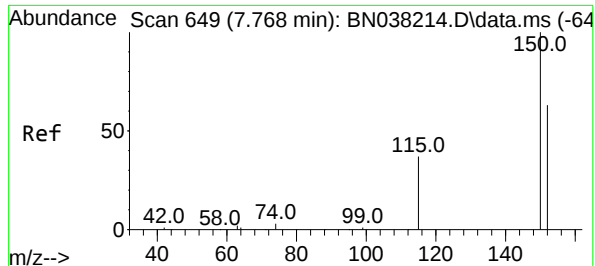
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN112725\  
Data File : BN038214.D  
Acq On : 26 Nov 2025 21:48  
Operator : RC/JU  
Sample : SSTDICCC0.4  
Misc :  
ALS Vial : 14 Sample Multiplier: 1

Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICCC0.4

Quant Time: Nov 28 20:54:48 2025  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\8270-SIM-BN112725.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Fri Nov 28 20:22:09 2025  
Response via : Initial Calibration

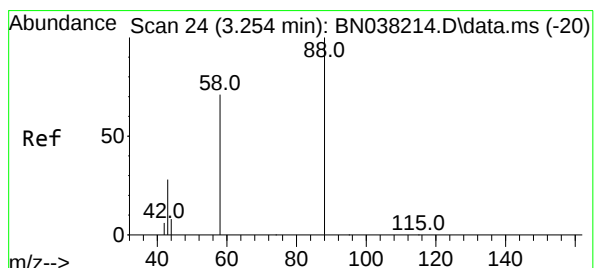
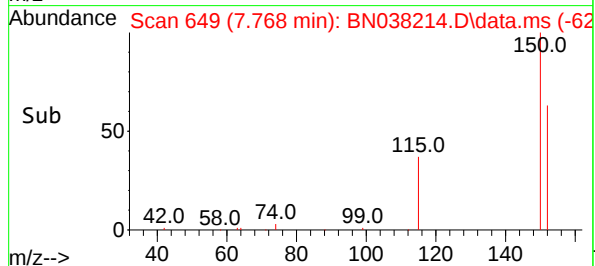
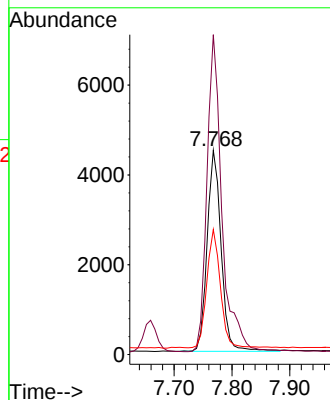
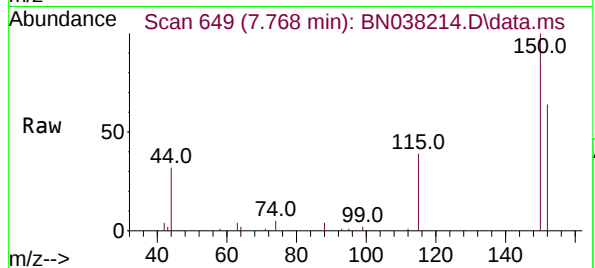




#1  
1,4-Dichlorobenzene-d4  
Concen: 0.400 ng  
RT: 7.768 min Scan# 64  
Delta R.T. -0.000 min  
Lab File: BN038214.D  
Acq: 26 Nov 2025 21:48

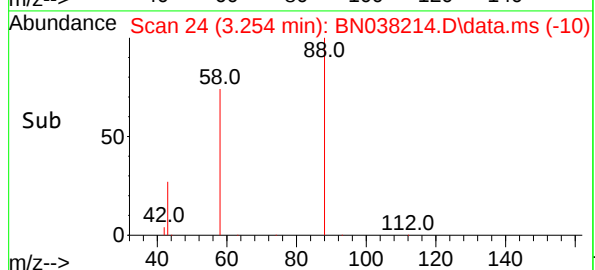
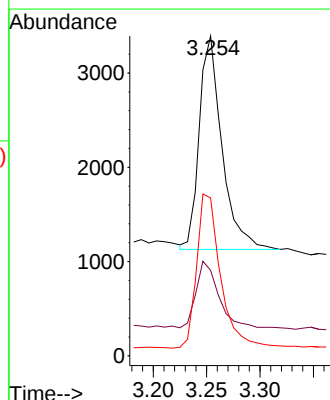
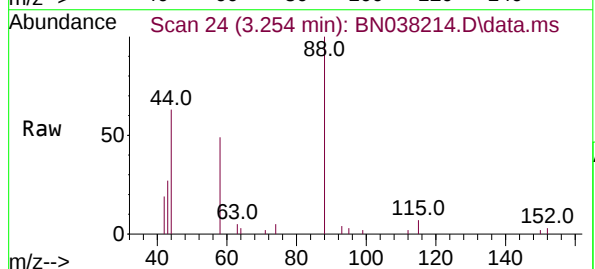
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICCC0.4

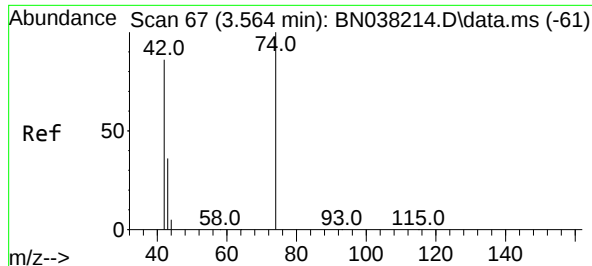
Tgt Ion:152 Resp: 7469  
Ion Ratio Lower Upper  
152 100  
150 156.6 125.3 187.9  
115 61.2 49.0 73.4



#2  
1,4-Dioxane  
Concen: 0.425 ng  
RT: 3.254 min Scan# 24  
Delta R.T. 0.000 min  
Lab File: BN038214.D  
Acq: 26 Nov 2025 21:48

Tgt Ion: 88 Resp: 3345  
Ion Ratio Lower Upper  
88 100  
43 32.0 24.8 37.2  
58 76.7 61.1 91.7

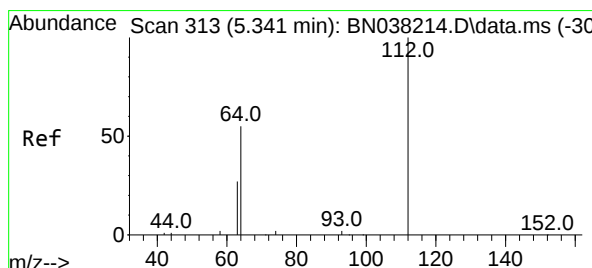
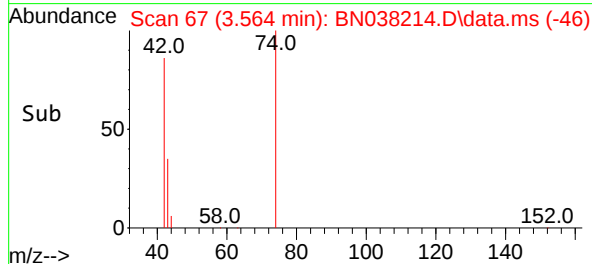
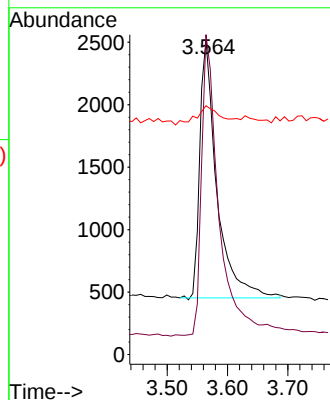
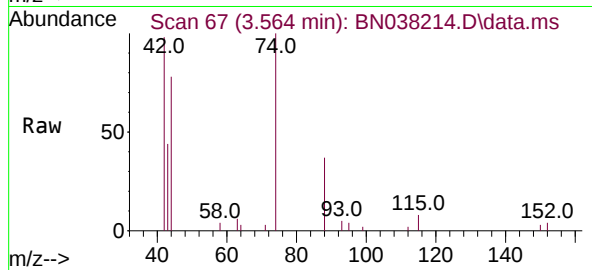




#3  
n-Nitrosodimethylamine  
Concen: 0.418 ng  
RT: 3.564 min Scan# 61  
Delta R.T. 0.000 min  
Lab File: BN038214.D  
Acq: 26 Nov 2025 21:48

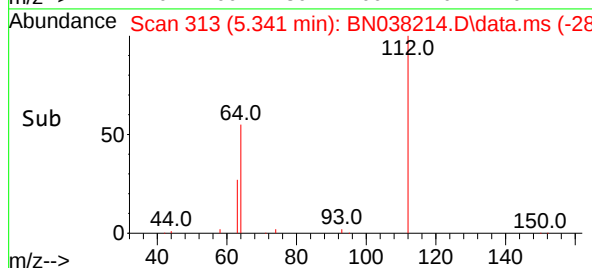
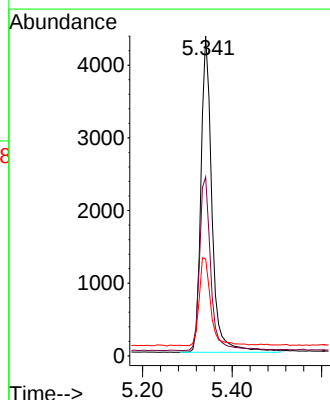
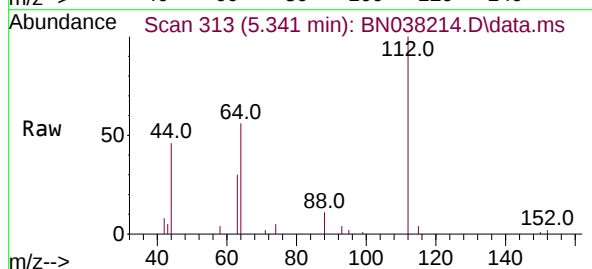
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICCC0.4

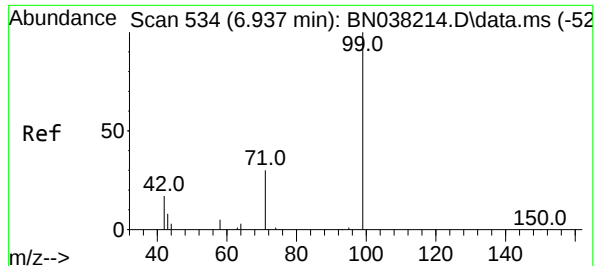
Tgt Ion: 42 Resp: 4054  
Ion Ratio Lower Upper  
42 100  
74 121.0 96.2 144.2  
44 10.0 8.0 12.0



#4  
2-Fluorophenol  
Concen: 0.424 ng  
RT: 5.341 min Scan# 313  
Delta R.T. 0.000 min  
Lab File: BN038214.D  
Acq: 26 Nov 2025 21:48

Tgt Ion: 112 Resp: 7407  
Ion Ratio Lower Upper  
112 100  
64 56.2 45.0 67.4  
63 29.0 23.2 34.8

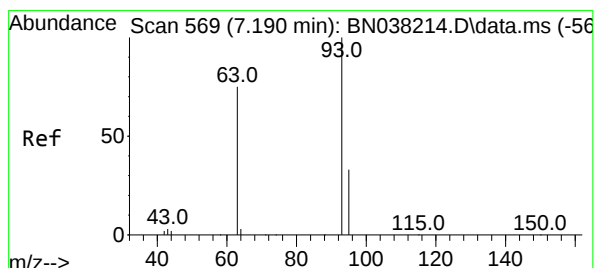
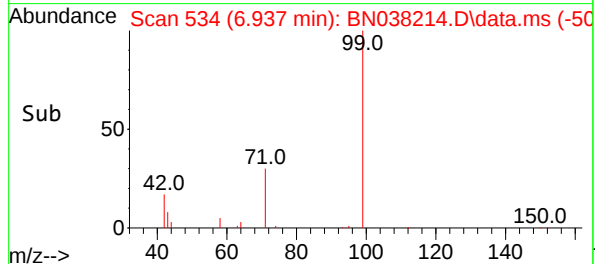
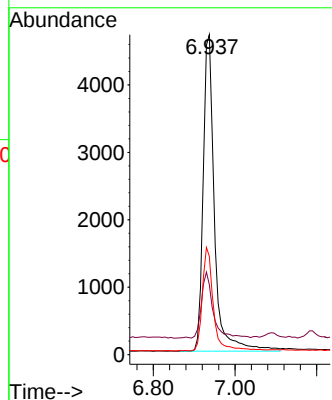
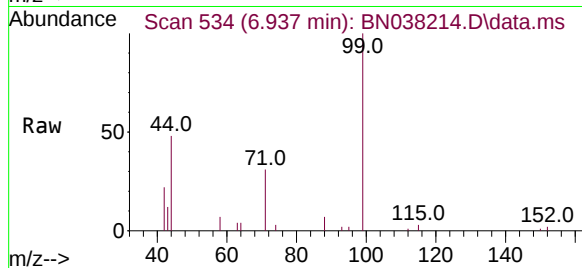




#5  
Phenol-d6  
Concen: 0.416 ng  
RT: 6.937 min Scan# 534  
Delta R.T. 0.000 min  
Lab File: BN038214.D  
Acq: 26 Nov 2025 21:48

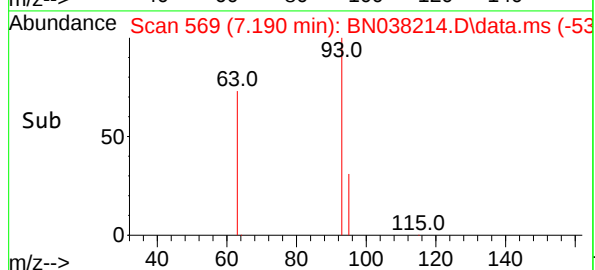
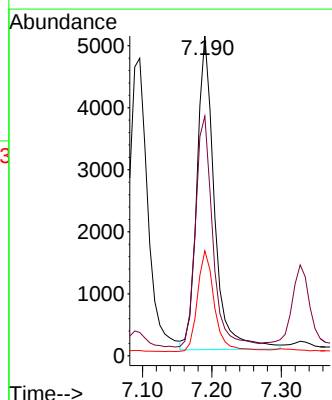
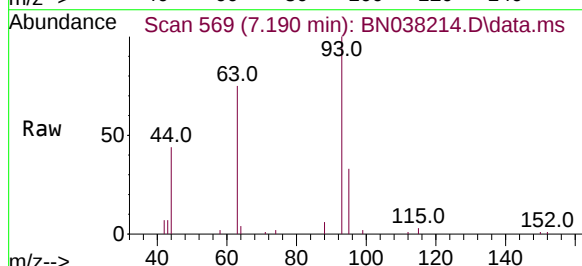
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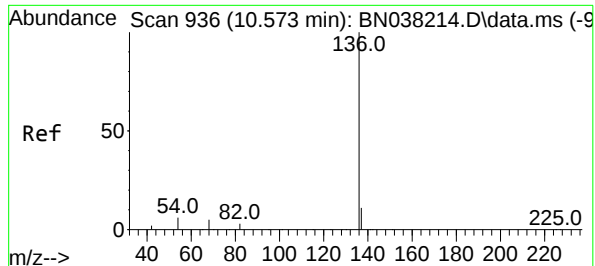
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 99    | Resp: | 9075  |
| Ion      | Ratio | Lower | Upper |
| 99       | 100   |       |       |
| 42       | 21.2  | 17.0  | 25.6  |
| 71       | 31.7  | 25.4  | 38.2  |



#6  
bis(2-Chloroethyl)ether  
Concen: 0.425 ng  
RT: 7.190 min Scan# 569  
Delta R.T. 0.000 min  
Lab File: BN038214.D  
Acq: 26 Nov 2025 21:48

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 93    | Resp: | 8875  |
| Ion      | Ratio | Lower | Upper |
| 93       | 100   |       |       |
| 63       | 72.6  | 58.1  | 87.1  |
| 95       | 31.4  | 25.1  | 37.7  |

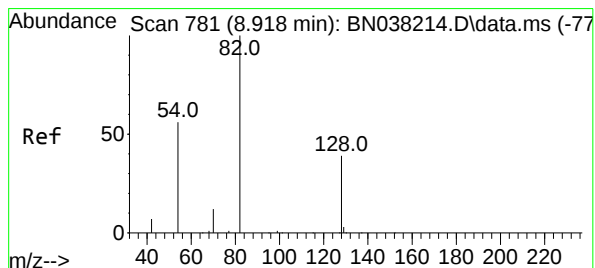
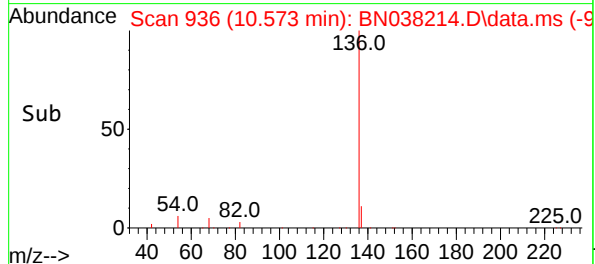
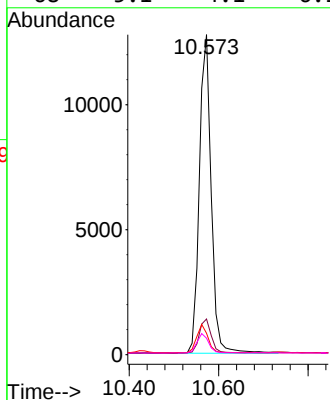
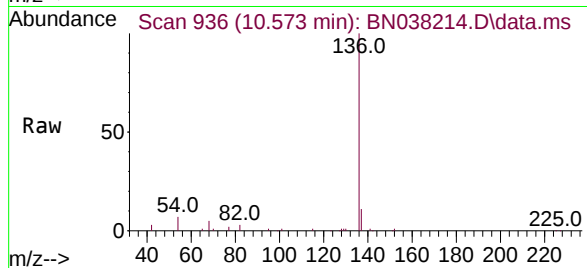




#7  
Naphthalene-d8  
Concen: 0.400 ng  
RT: 10.573 min Scan# 936  
Delta R.T. 0.000 min  
Lab File: BN038214.D  
Acq: 26 Nov 2025 21:48

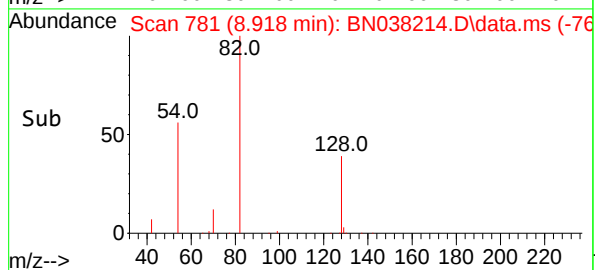
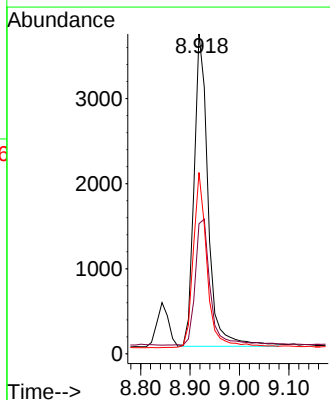
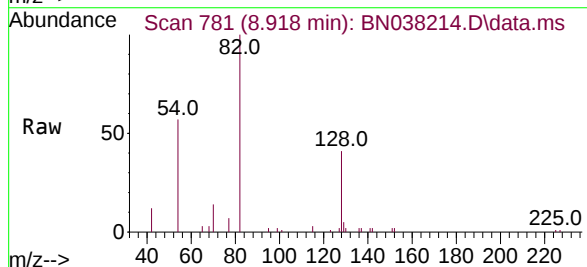
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICCC0.4

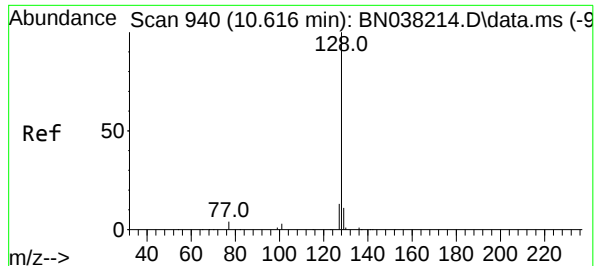
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|-----------|-------|-------|-------|
| Tgt Ion:  | 136   | Resp: | 23385 |
| Ion Ratio | Lower | Upper |       |
| 136       | 100   |       |       |
| 137       | 11.1  | 8.9   | 13.3  |
| 54        | 6.7   | 5.4   | 8.0   |
| 68        | 5.1   | 4.1   | 6.1   |



#8  
Nitrobenzene-d5  
Concen: 0.388 ng  
RT: 8.918 min Scan# 781  
Delta R.T. 0.000 min  
Lab File: BN038214.D  
Acq: 26 Nov 2025 21:48

|           |       |       |      |
|-----------|-------|-------|------|
| Tgt Ion:  | 82    | Resp: | 7258 |
| Ion Ratio | Lower | Upper |      |
| 82        | 100   |       |      |
| 128       | 40.7  | 32.6  | 48.8 |
| 54        | 56.7  | 45.4  | 68.0 |

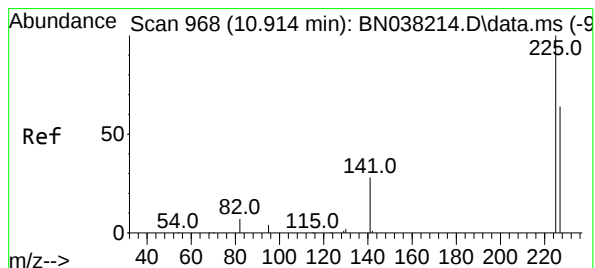
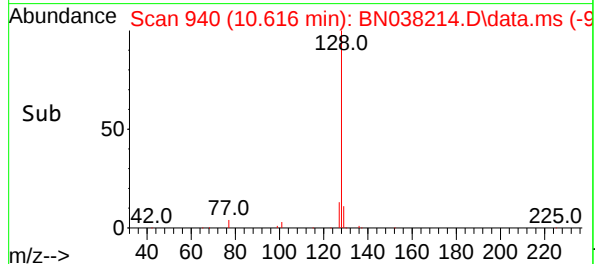
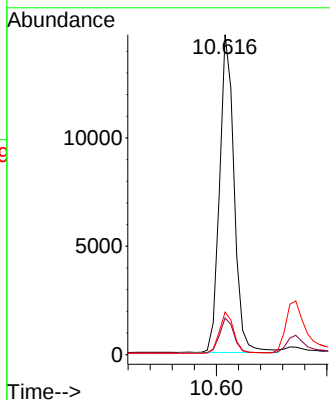
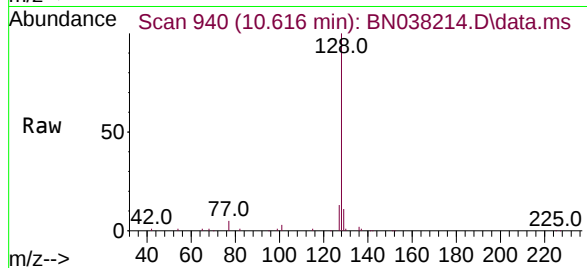




#9  
Naphthalene  
Concen: 0.415 ng  
RT: 10.616 min Scan# 940  
Delta R.T. 0.000 min  
Lab File: BN038214.D  
Acq: 26 Nov 2025 21:48

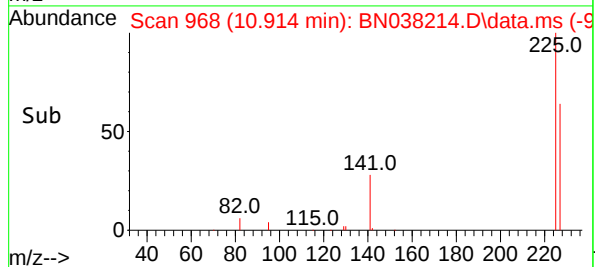
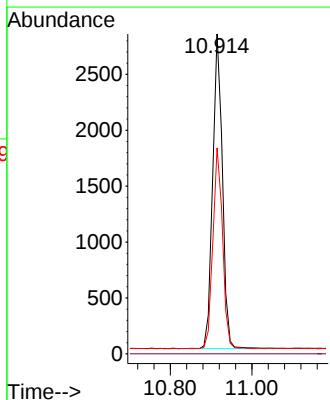
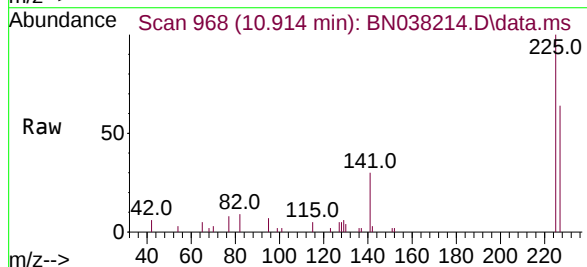
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICCC0.4

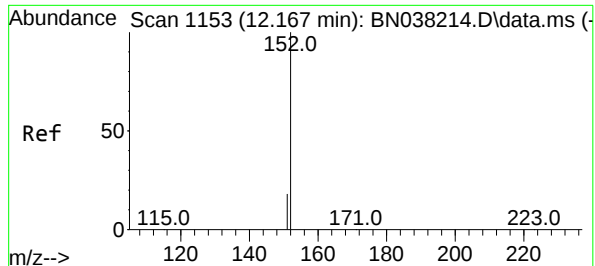
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Ion Ratio Lower Upper  
128 100  
129 11.4 9.1 13.7  
127 13.3 10.6 16.0



#10  
Hexachlorobutadiene  
Concen: 0.424 ng  
RT: 10.914 min Scan# 968  
Delta R.T. 0.000 min  
Lab File: BN038214.D  
Acq: 26 Nov 2025 21:48

Tgt Ion:225 Resp: 4678  
Ion Ratio Lower Upper  
225 100  
223 0.0 0.0 0.0  
227 63.1 50.5 75.7

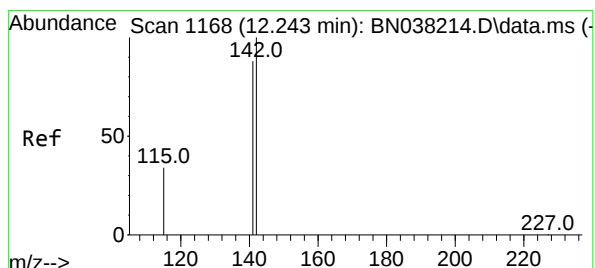
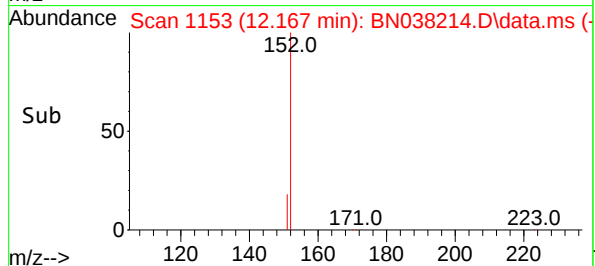
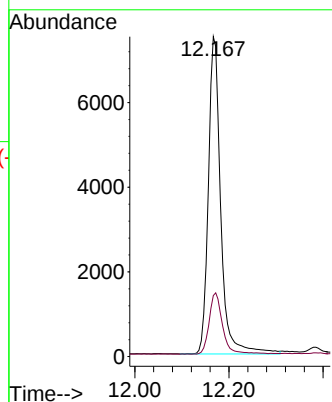
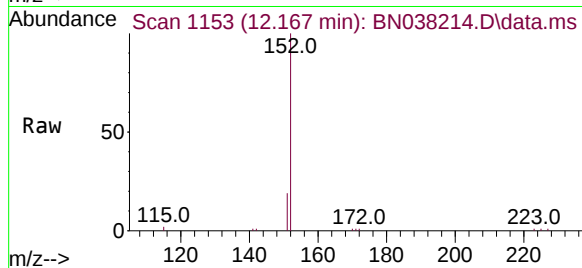




#11  
2-Methylnaphthalene-d10  
Concen: 0.414 ng  
RT: 12.167 min Scan# 1153  
Delta R.T. 0.000 min  
Lab File: BN038214.D  
Acq: 26 Nov 2025 21:48

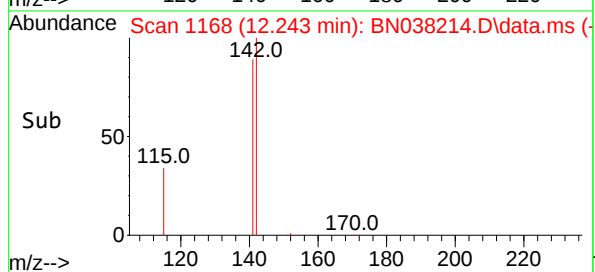
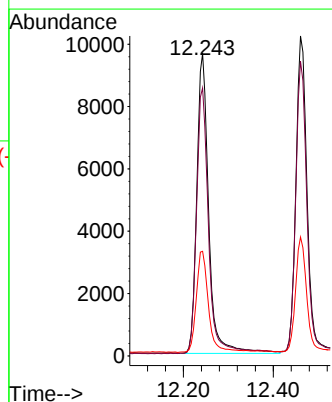
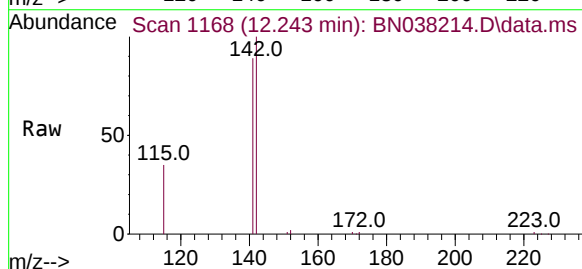
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICCC0.4

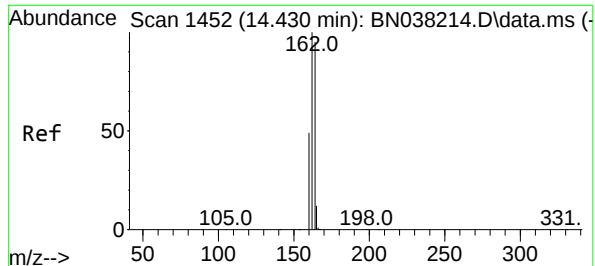
Tgt Ion:152 Resp: 13752  
Ion Ratio Lower Upper  
152 100  
151 20.9 16.7 25.1



#12  
2-Methylnaphthalene  
Concen: 0.416 ng  
RT: 12.243 min Scan# 1168  
Delta R.T. -0.000 min  
Lab File: BN038214.D  
Acq: 26 Nov 2025 21:48

Tgt Ion:142 Resp: 17767  
Ion Ratio Lower Upper  
142 100  
141 88.6 70.9 106.3  
115 34.6 27.7 41.5

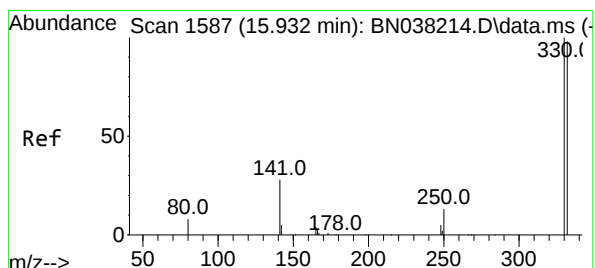
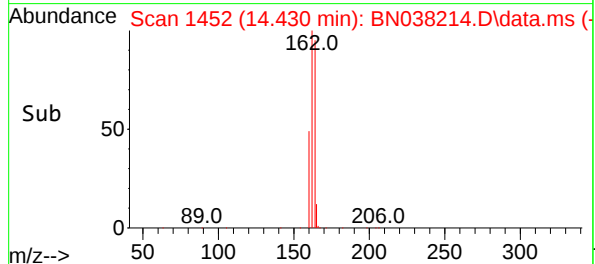
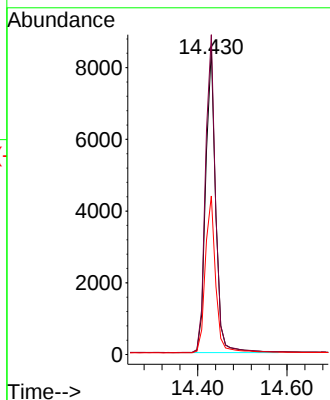
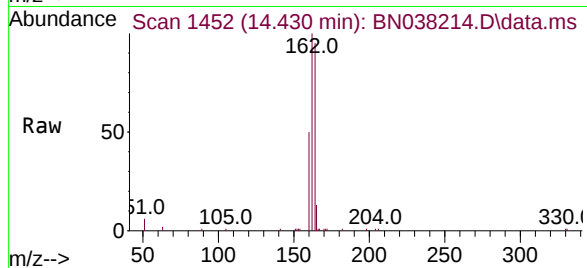




#13  
Acenaphthene-d10  
Concen: 0.400 ng  
RT: 14.430 min Scan# 1452  
Delta R.T. 0.000 min  
Lab File: BN038214.D  
Acq: 26 Nov 2025 21:48

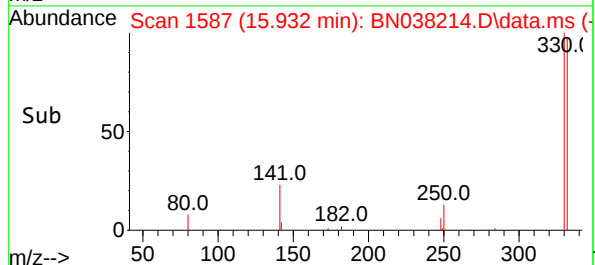
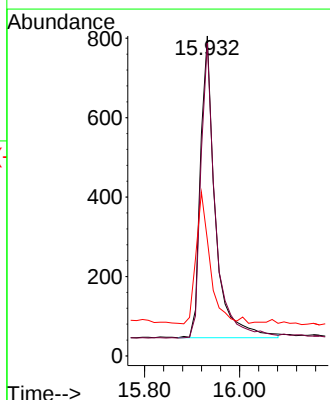
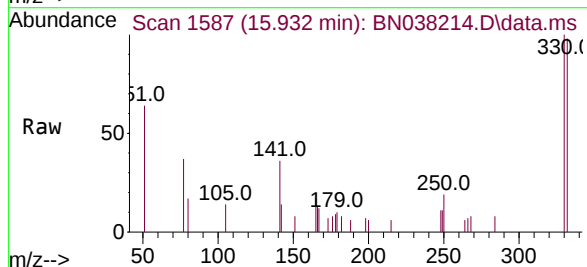
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICCC0.4

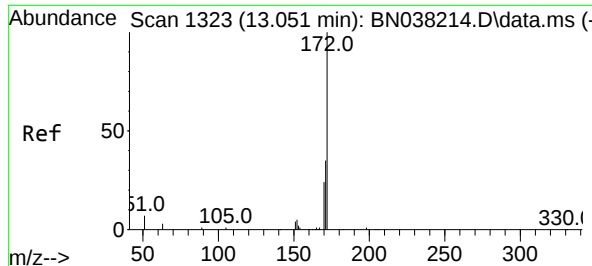
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 164     | 100   |       |       |
| 162     | 104.8 | 83.8  | 125.8 |
| 160     | 52.0  | 41.6  | 62.4  |



#14  
2,4,6-Tribromophenol  
Concen: 0.392 ng  
RT: 15.932 min Scan# 1587  
Delta R.T. 0.000 min  
Lab File: BN038214.D  
Acq: 26 Nov 2025 21:48

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 330     | 100   |       |       |
| 332     | 97.2  | 77.8  | 116.6 |
| 141     | 41.2  | 33.0  | 49.4  |

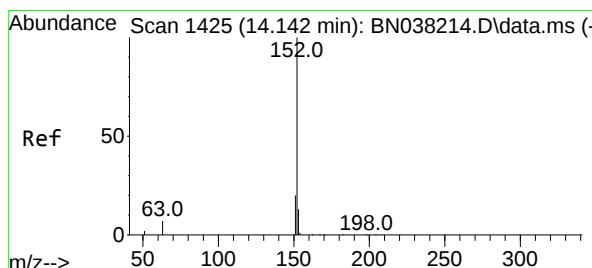
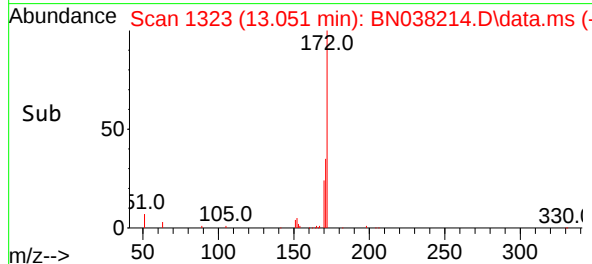
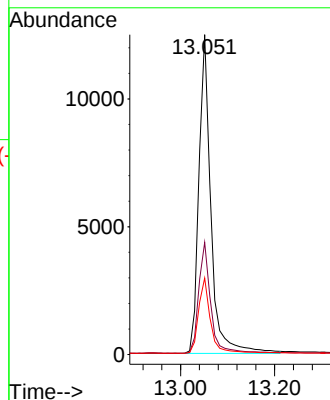
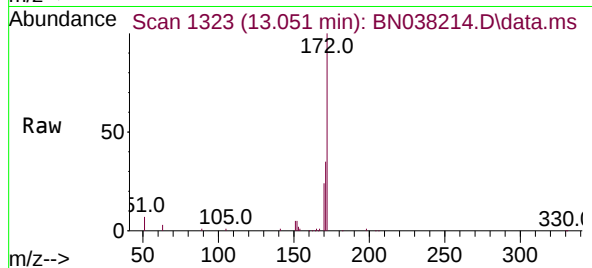




#15  
2-Fluorobiphenyl  
Concen: 0.412 ng  
RT: 13.051 min Scan# 1323  
Delta R.T. 0.000 min  
Lab File: BN038214.D  
Acq: 26 Nov 2025 21:48

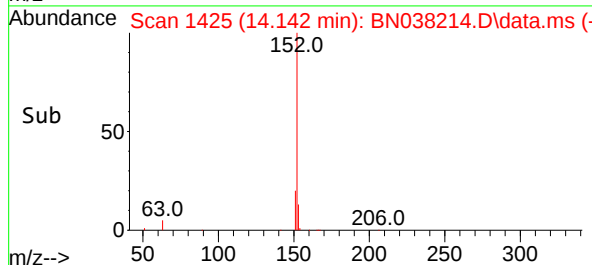
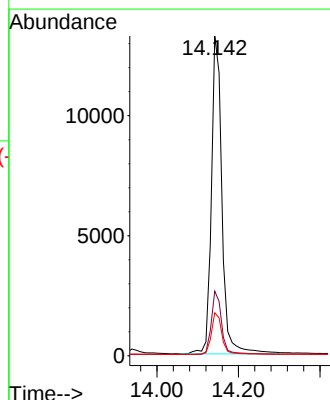
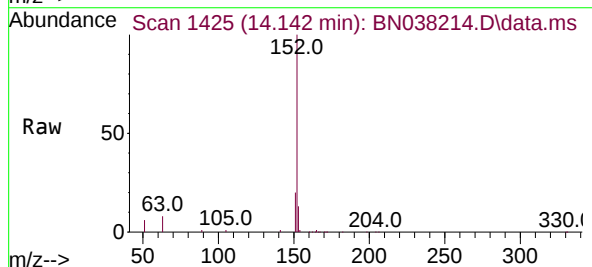
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICCC0.4

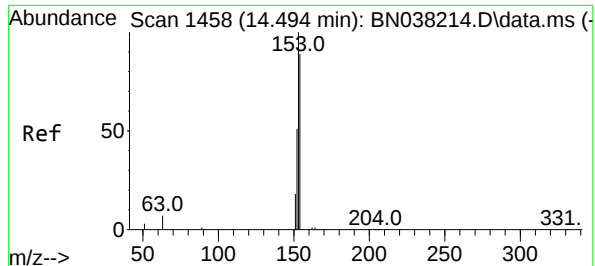
|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 172   | Resp: | 21045 |
| Ion Ratio | Lower | Upper |       |
| 172       | 100   |       |       |
| 171       | 35.1  | 28.1  | 42.1  |
| 170       | 23.9  | 19.1  | 28.7  |



#16  
Acenaphthylene  
Concen: 0.403 ng  
RT: 14.142 min Scan# 1425  
Delta R.T. 0.000 min  
Lab File: BN038214.D  
Acq: 26 Nov 2025 21:48

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 152   | Resp: | 23834 |
| Ion Ratio | Lower | Upper |       |
| 152       | 100   |       |       |
| 151       | 19.5  | 15.6  | 23.4  |
| 153       | 13.2  | 10.6  | 15.8  |

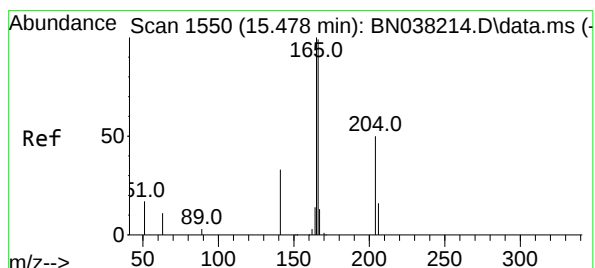
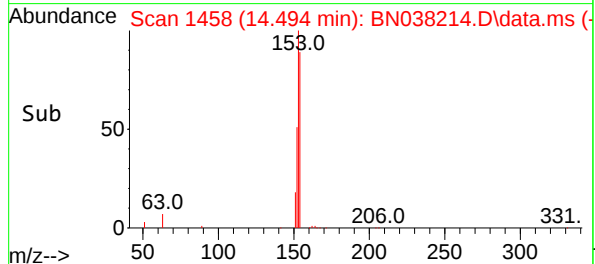
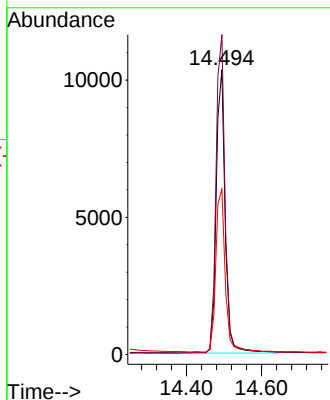
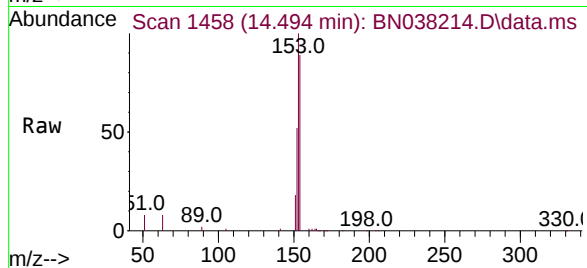




#17  
Acenaphthene  
Concen: 0.414 ng  
RT: 14.494 min Scan# 1458  
Delta R.T. 0.000 min  
Lab File: BN038214.D  
Acq: 26 Nov 2025 21:48

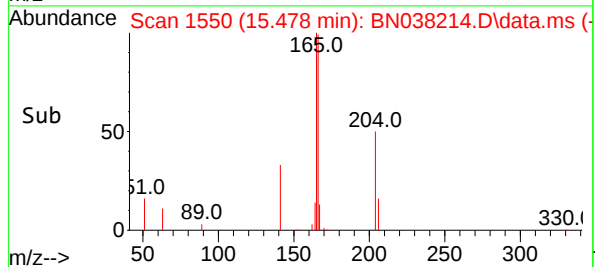
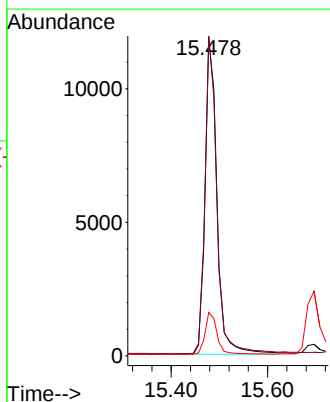
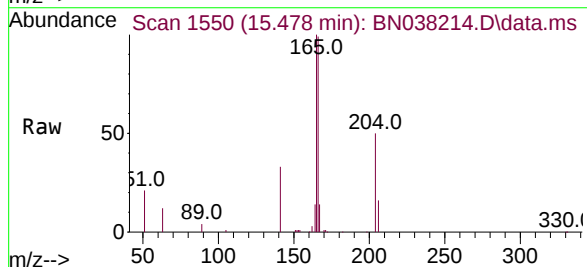
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICCC0.4

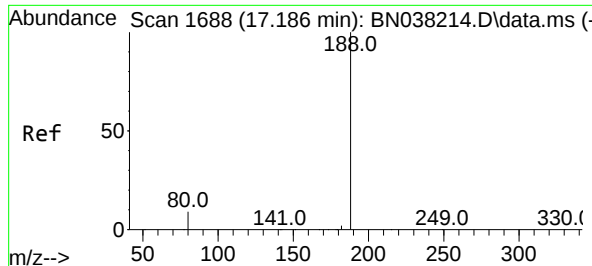
Tgt Ion:154 Resp: 17100  
Ion Ratio Lower Upper  
154 100  
153 113.9 91.1 136.7  
152 60.2 48.2 72.2



#18  
Fluorene  
Concen: 0.409 ng  
RT: 15.478 min Scan# 1550  
Delta R.T. -0.000 min  
Lab File: BN038214.D  
Acq: 26 Nov 2025 21:48

Tgt Ion:166 Resp: 21837  
Ion Ratio Lower Upper  
166 100  
165 98.4 78.7 118.1  
167 13.6 10.9 16.3





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 17.186 min Scan# 1688

Delta R.T. 0.000 min

Lab File: BN038214.D

Acq: 26 Nov 2025 21:48

Instrument :

BNA\_N

ClientSampleId :

SSTDICCC0.4

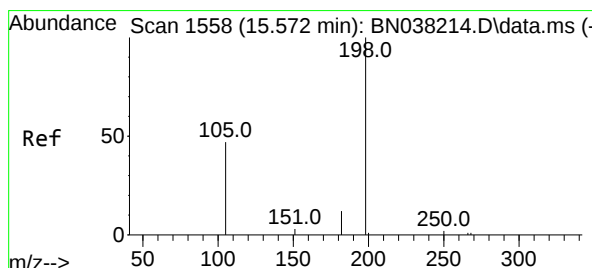
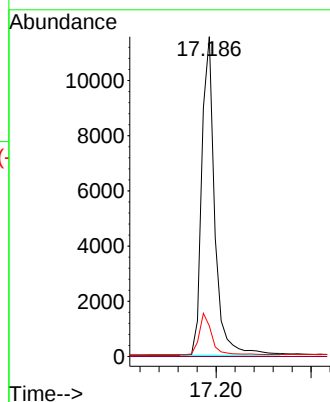
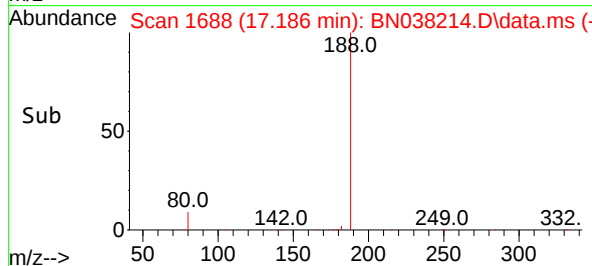
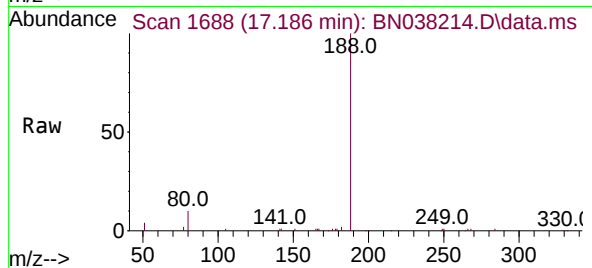
Tgt Ion:188 Resp: 21844

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 9.6 7.7 11.5



#20

4,6-Dinitro-2-methylphenol

Concen: 0.399 ng

RT: 15.572 min Scan# 1558

Delta R.T. 0.000 min

Lab File: BN038214.D

Acq: 26 Nov 2025 21:48

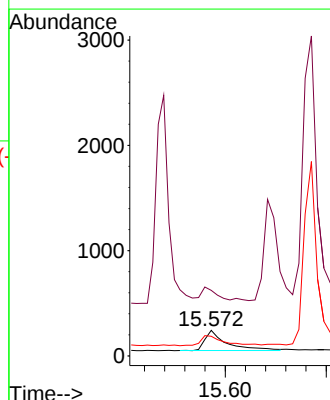
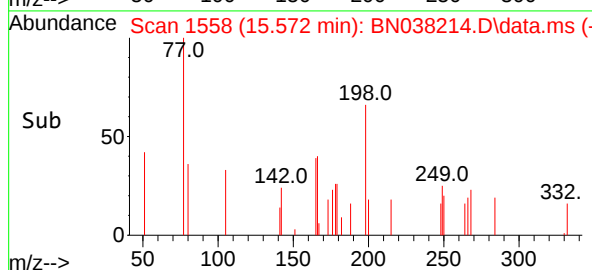
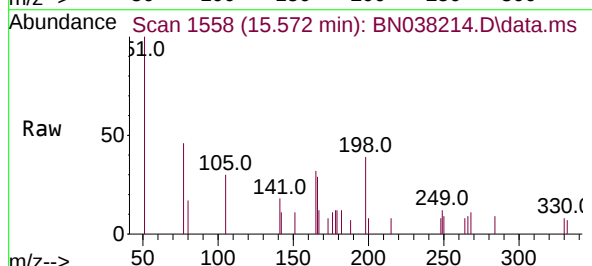
Tgt Ion:198 Resp: 568

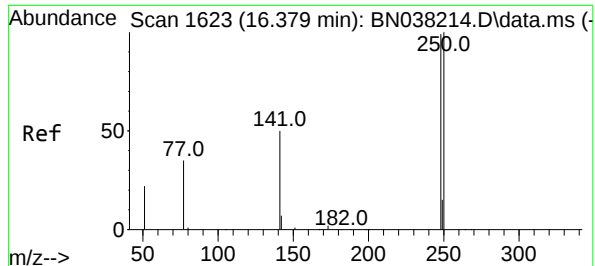
Ion Ratio Lower Upper

198 100

51 256.4 205.1 307.7

105 77.0 61.6 92.4

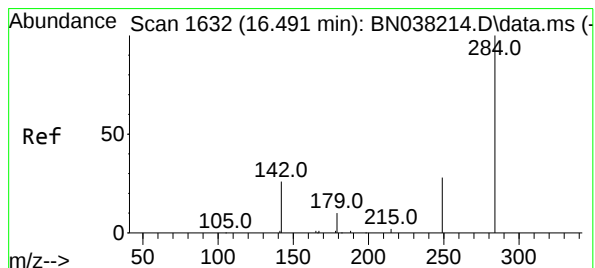
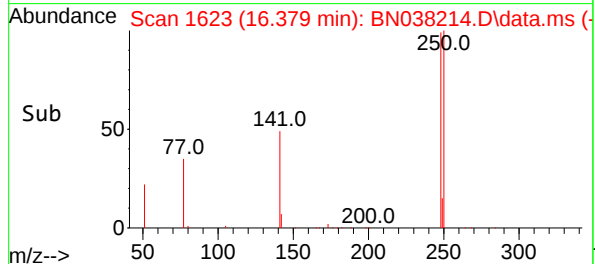
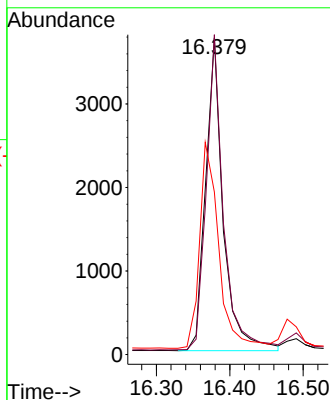
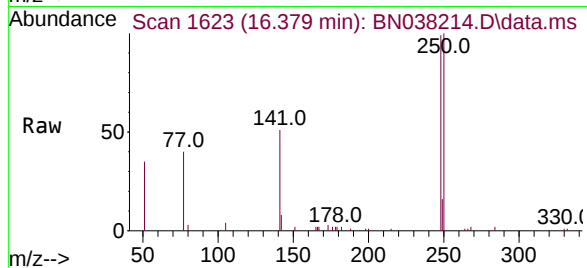




#21  
4-Bromophenyl-phenylether  
Concen: 0.411 ng  
RT: 16.379 min Scan# 1623  
Delta R.T. 0.000 min  
Lab File: BN038214.D  
Acq: 26 Nov 2025 21:48

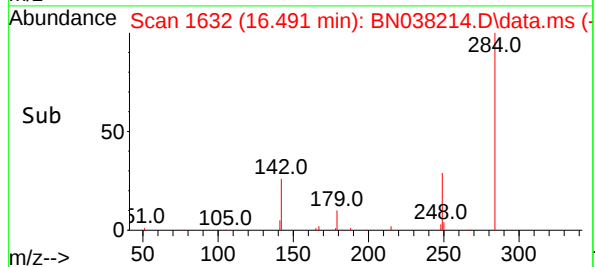
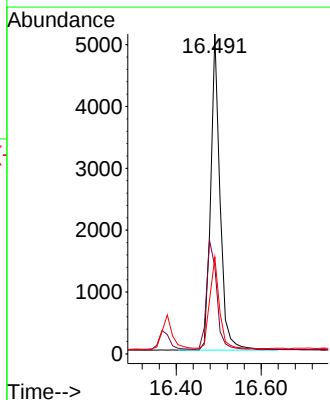
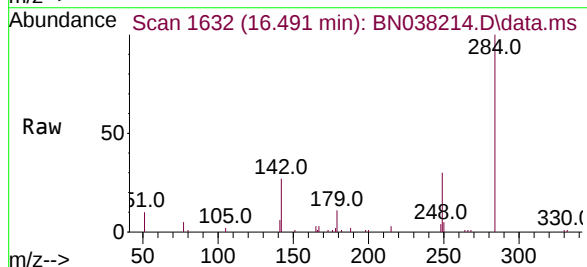
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICCC0.4

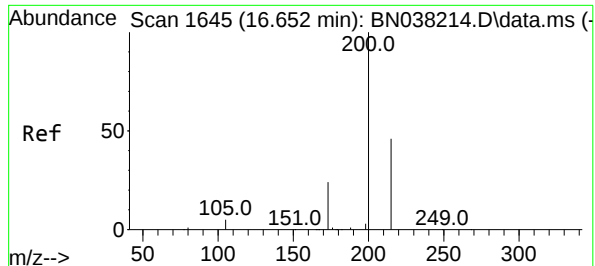
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 248     | 100   |       |       |
| 250     | 101.0 | 80.8  | 121.2 |
| 141     | 51.3  | 41.0  | 61.6  |



#22  
Hexachlorobenzene  
Concen: 0.420 ng  
RT: 16.491 min Scan# 1632  
Delta R.T. 0.000 min  
Lab File: BN038214.D  
Acq: 26 Nov 2025 21:48

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 284     | 100   |       |       |
| 142     | 38.1  | 30.5  | 45.7  |
| 249     | 29.8  | 23.8  | 35.8  |

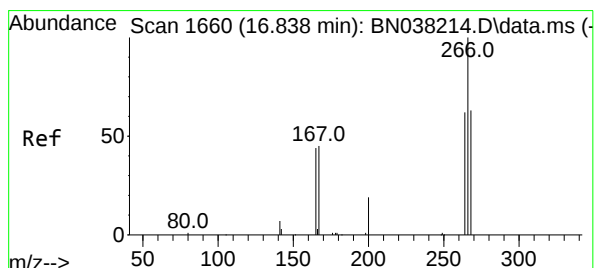
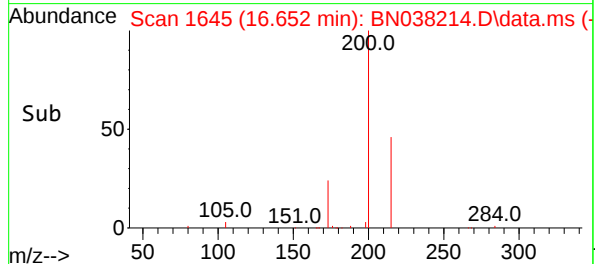
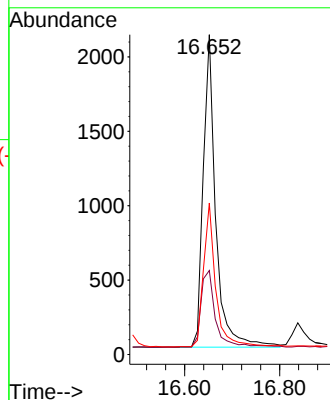
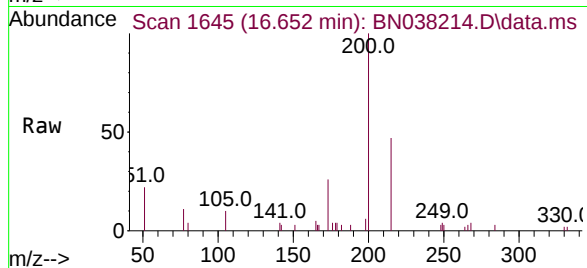




#23  
Atrazine  
Concen: 0.395 ng  
RT: 16.652 min Scan# 1645  
Delta R.T. 0.000 min  
Lab File: BN038214.D  
Acq: 26 Nov 2025 21:48

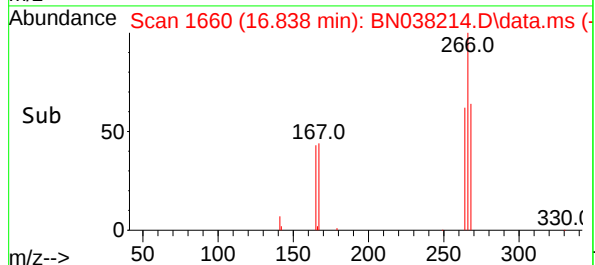
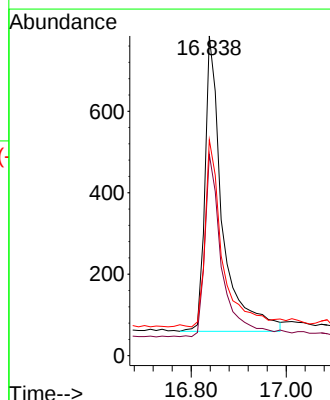
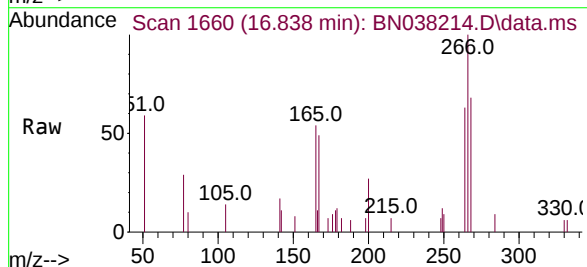
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICCC0.4

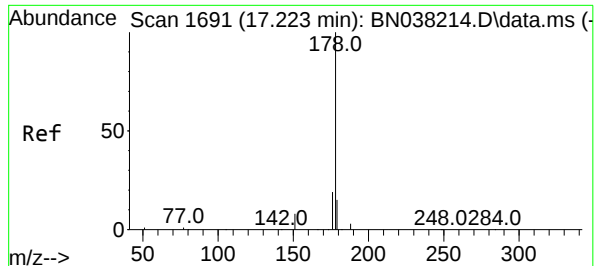
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 200     | 100   |       |       |
| 173     | 26.3  | 21.0  | 31.6  |
| 215     | 47.3  | 37.8  | 56.8  |



#24  
Pentachlorophenol  
Concen: 0.361 ng  
RT: 16.838 min Scan# 1660  
Delta R.T. 0.000 min  
Lab File: BN038214.D  
Acq: 26 Nov 2025 21:48

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 266     | 100   |       |       |
| 264     | 61.1  | 48.9  | 73.3  |
| 268     | 62.7  | 50.2  | 75.2  |

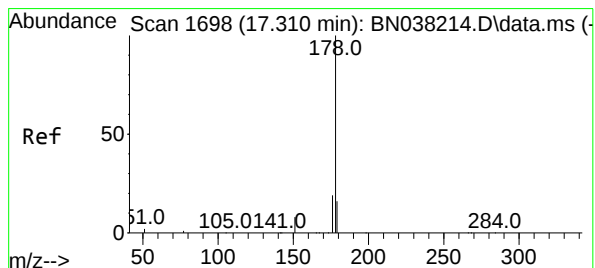
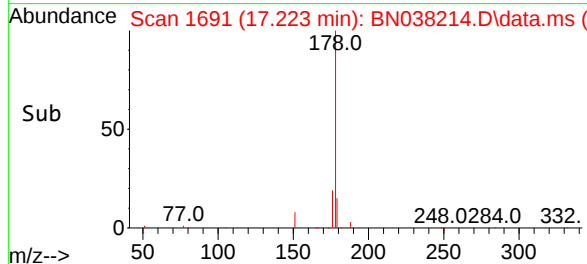
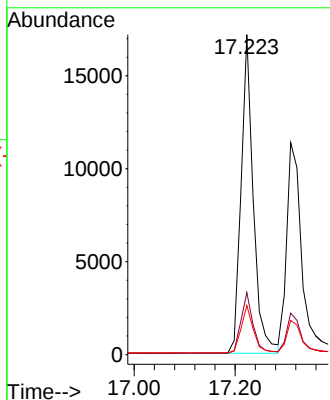
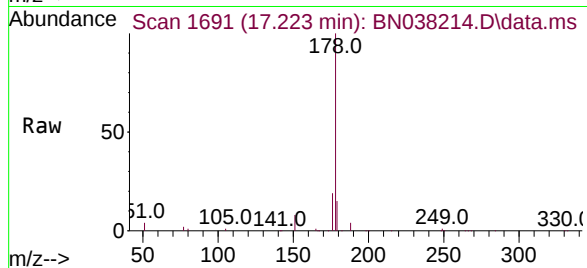




#25  
Phenanthrene  
Concen: 0.418 ng  
RT: 17.223 min Scan# 1691  
Delta R.T. 0.000 min  
Lab File: BN038214.D  
Acq: 26 Nov 2025 21:48

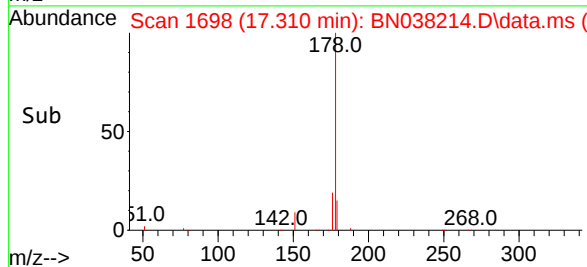
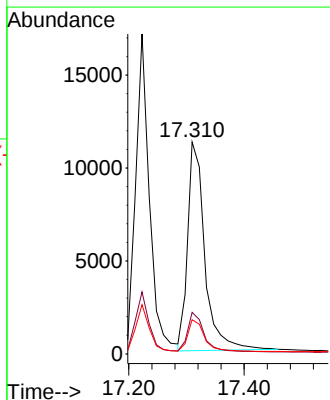
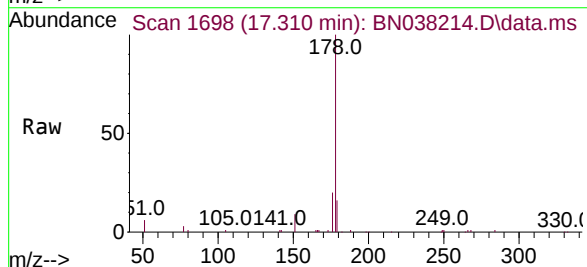
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICCC0.4

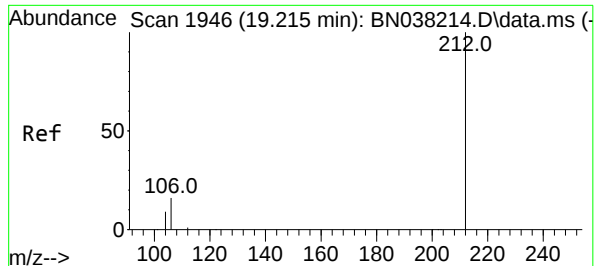
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 178     | 100   |       |       |
| 176     | 19.1  | 15.3  | 22.9  |
| 179     | 15.0  | 12.0  | 18.0  |



#26  
Anthracene  
Concen: 0.399 ng  
RT: 17.310 min Scan# 1698  
Delta R.T. 0.000 min  
Lab File: BN038214.D  
Acq: 26 Nov 2025 21:48

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 178     | 100   |       |       |
| 176     | 18.5  | 14.7  | 22.1  |
| 179     | 15.2  | 12.3  | 18.5  |





#27

Fluoranthene-d10

Concen: 0.410 ng

RT: 19.215 min Scan# 1946

Delta R.T. 0.000 min

Lab File: BN038214.D

Acq: 26 Nov 2025 21:48

Instrument :

BNA\_N

ClientSampleId :

SSTDICCC0.4

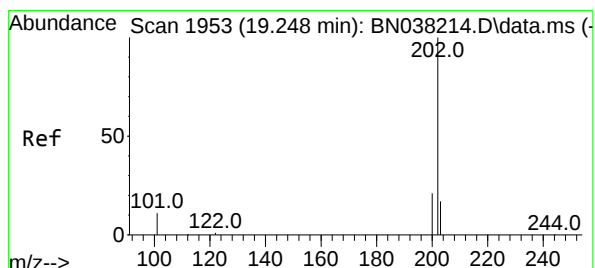
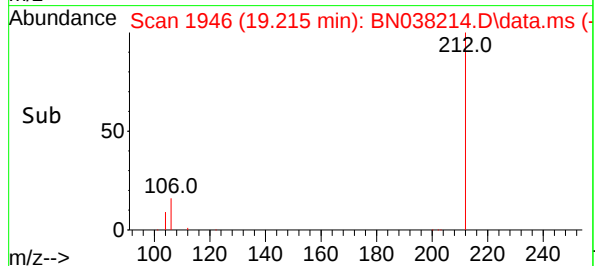
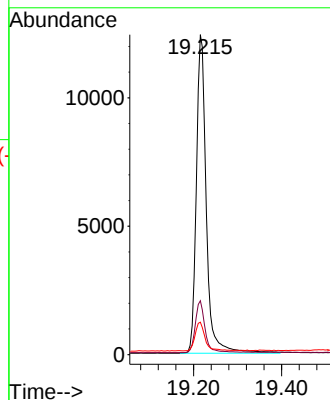
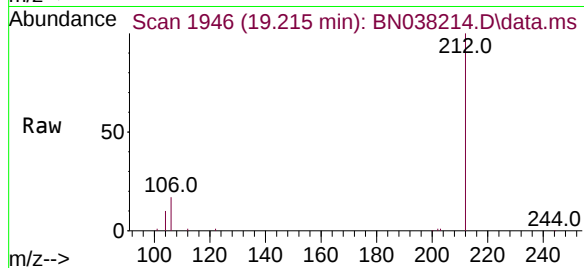
Tgt Ion:212 Resp: 19448

Ion Ratio Lower Upper

212 100

106 15.9 12.7 19.1

104 9.1 7.3 10.9



#28

Fluoranthene

Concen: 0.406 ng

RT: 19.248 min Scan# 1953

Delta R.T. 0.000 min

Lab File: BN038214.D

Acq: 26 Nov 2025 21:48

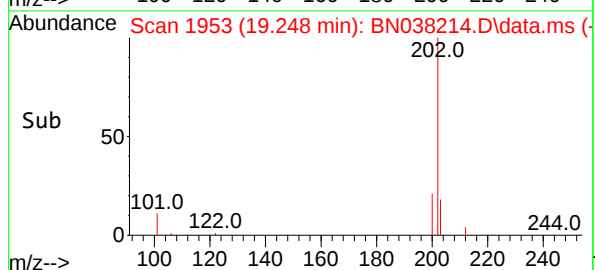
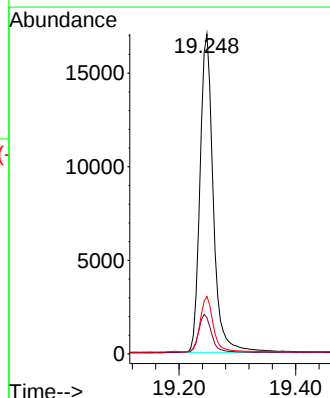
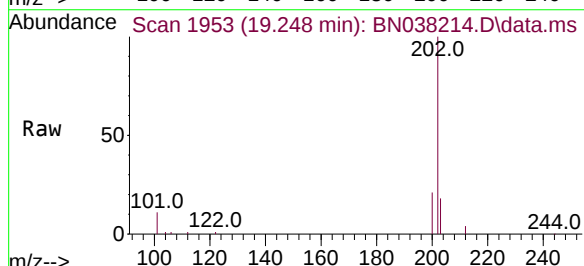
Tgt Ion:202 Resp: 26807

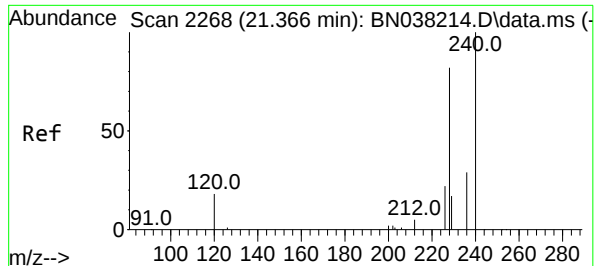
Ion Ratio Lower Upper

202 100

101 12.2 9.8 14.6

203 17.0 13.6 20.4





#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.366 min Scan# 21

Delta R.T. 0.000 min

Lab File: BN038214.D

Acq: 26 Nov 2025 21:48

Instrument :

BNA\_N

ClientSampleId :

SSTDICCC0.4

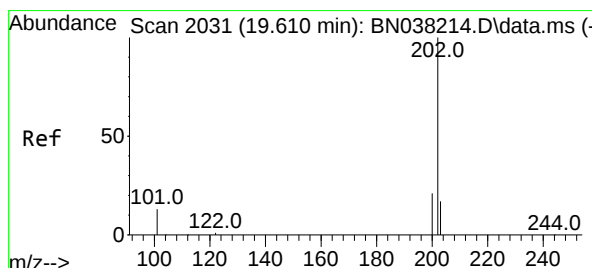
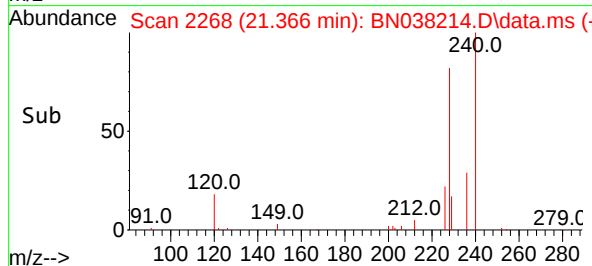
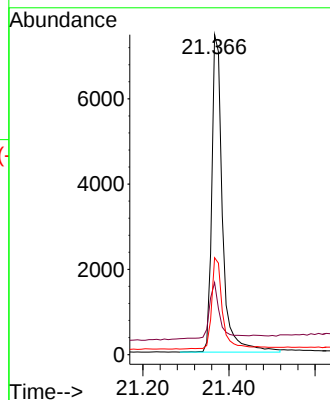
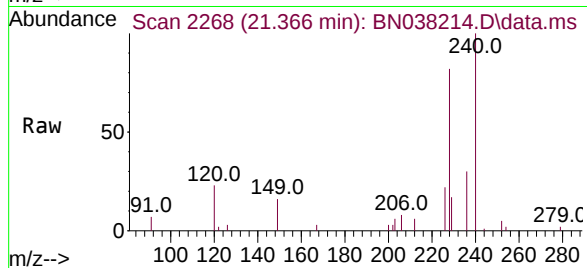
Tgt Ion:240 Resp: 12804

Ion Ratio Lower Upper

240 100

120 22.6 18.1 27.1

236 30.3 24.2 36.4



#30

Pyrene

Concen: 0.418 ng

RT: 19.610 min Scan# 2031

Delta R.T. 0.000 min

Lab File: BN038214.D

Acq: 26 Nov 2025 21:48

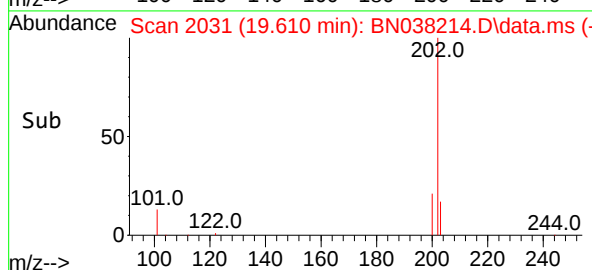
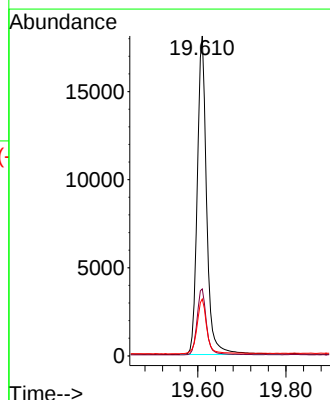
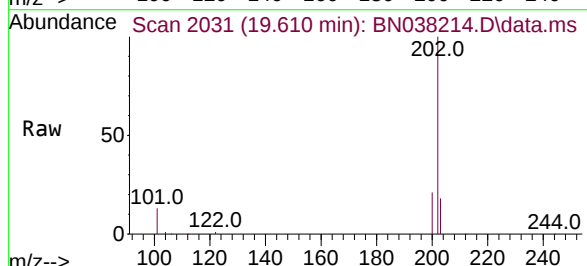
Tgt Ion:202 Resp: 26725

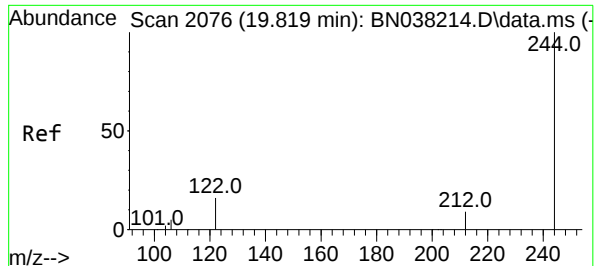
Ion Ratio Lower Upper

202 100

200 21.0 16.8 25.2

203 18.0 14.4 21.6

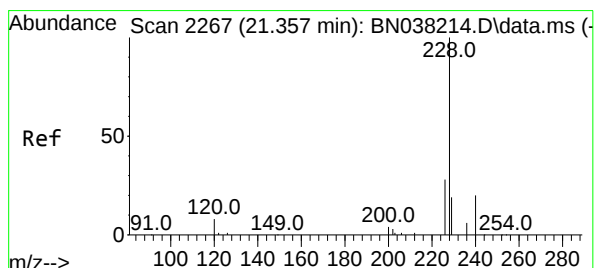
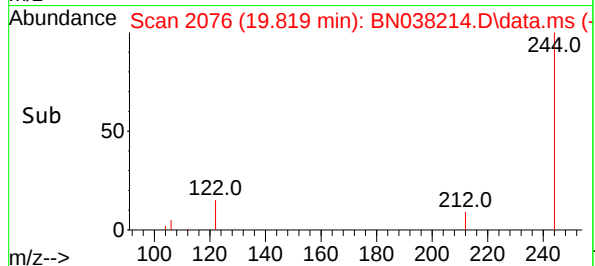
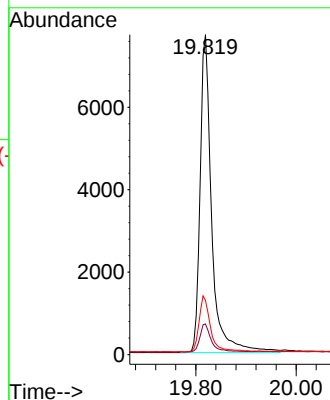
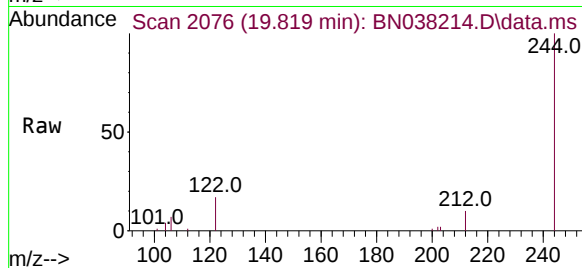




#31  
Terphenyl-d14  
Concen: 0.417 ng  
RT: 19.819 min Scan# 2076  
Delta R.T. 0.000 min  
Lab File: BN038214.D  
Acq: 26 Nov 2025 21:48

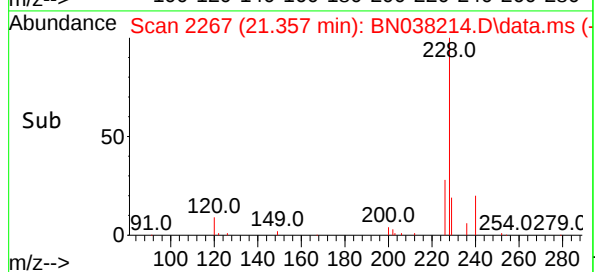
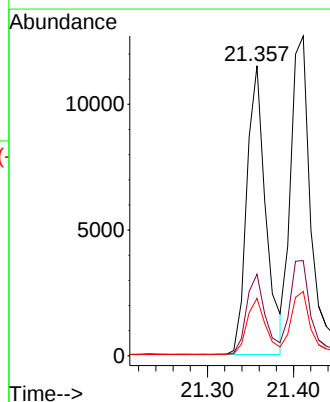
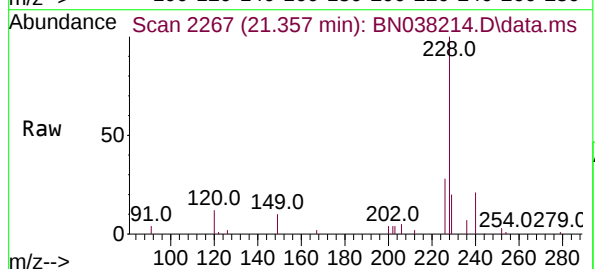
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICCC0.4

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 244     | 100   |       |       |
| 212     | 9.6   | 7.7   | 11.5  |
| 122     | 17.0  | 13.6  | 20.4  |

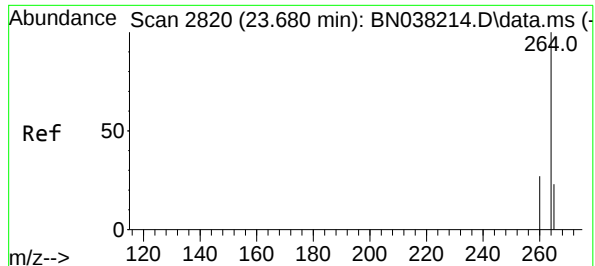


#32  
Benzo(a)anthracene  
Concen: 0.404 ng  
RT: 21.357 min Scan# 2267  
Delta R.T. 0.000 min  
Lab File: BN038214.D  
Acq: 26 Nov 2025 21:48

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 228     | 100   |       |       |
| 226     | 28.2  | 22.6  | 33.8  |
| 229     | 19.8  | 15.8  | 23.8  |







#35

Perylene-d12

Concen: 0.400 ng

RT: 23.680 min Scan# 2820

Delta R.T. 0.000 min

Lab File: BN038214.D

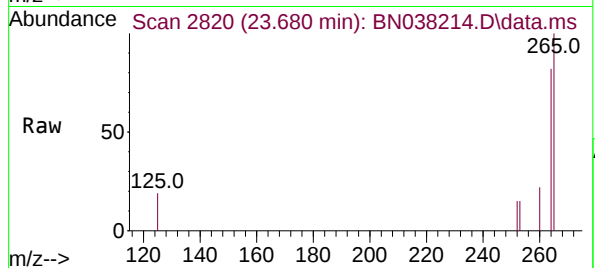
Acq: 26 Nov 2025 21:48

Instrument :

BNA\_N

ClientSampleId :

SSTDICCC0.4



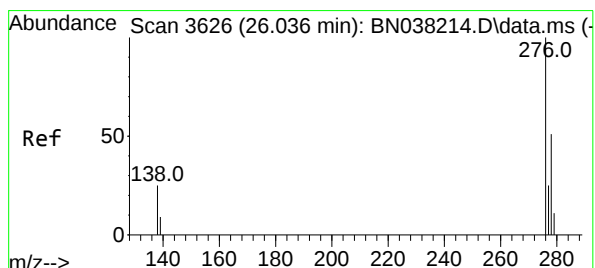
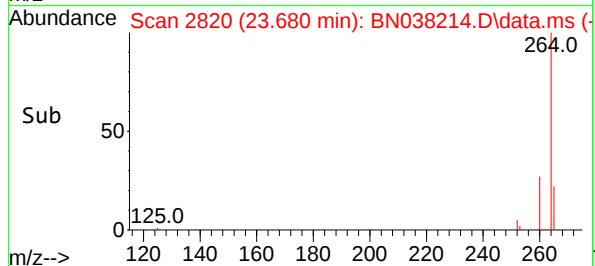
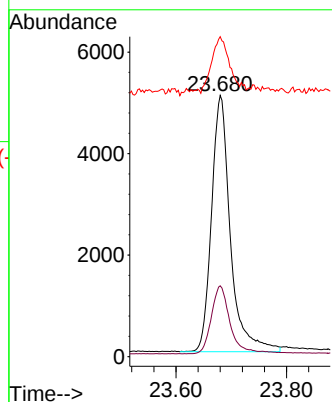
Tgt Ion:264 Resp: 11960

Ion Ratio Lower Upper

264 100

260 27.1 21.7 32.5

265 122.5 98.0 147.0



#36

Indeno(1,2,3-cd)pyrene

Concen: 0.405 ng

RT: 26.036 min Scan# 3626

Delta R.T. 0.000 min

Lab File: BN038214.D

Acq: 26 Nov 2025 21:48

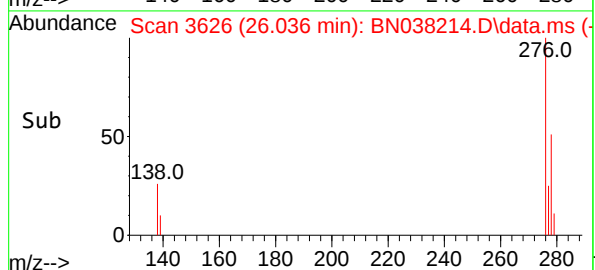
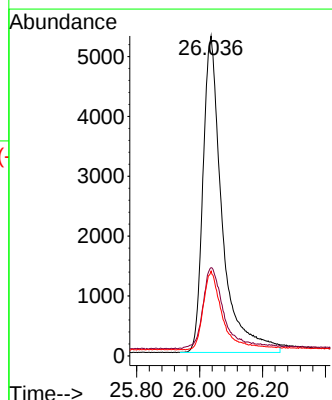
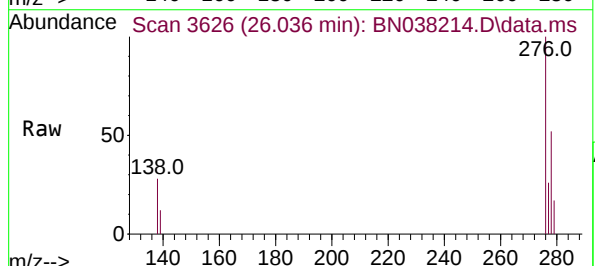
Tgt Ion:276 Resp: 22427

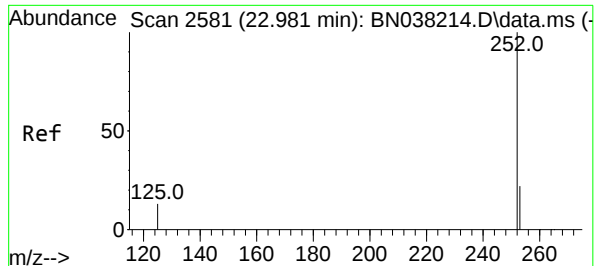
Ion Ratio Lower Upper

276 100

138 26.8 21.4 32.2

277 23.9 19.1 28.7





#37

Benzo(b)fluoranthene

Concen: 0.415 ng

RT: 22.981 min Scan# 2581

Delta R.T. 0.000 min

Lab File: BN038214.D

Acq: 26 Nov 2025 21:48

Instrument :

BNA\_N

ClientSampleId :

SSTDICCC0.4

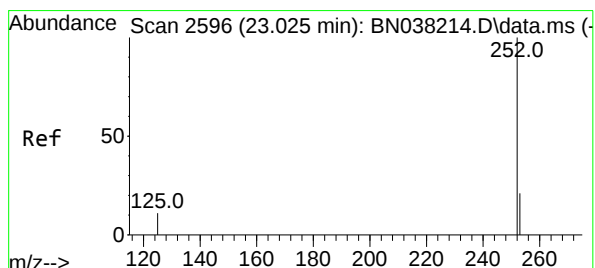
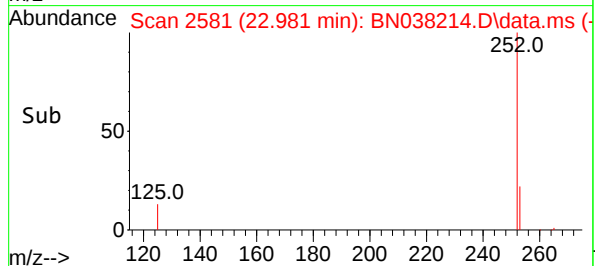
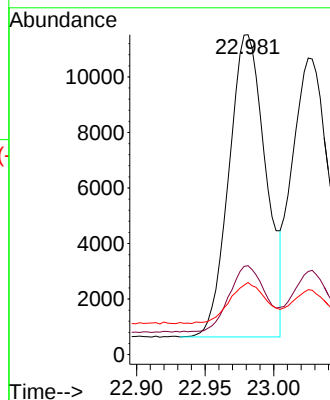
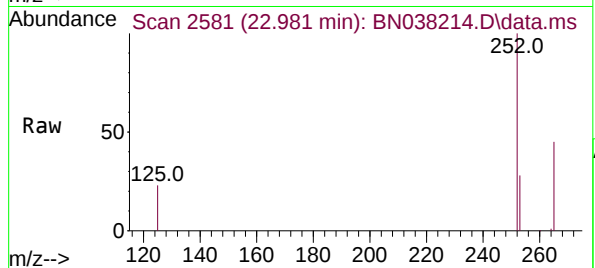
Tgt Ion:252 Resp: 20366

Ion Ratio Lower Upper

252 100

253 27.8 22.2 33.4

125 22.5 18.0 27.0



#38

Benzo(k)fluoranthene

Concen: 0.412 ng

RT: 23.025 min Scan# 2596

Delta R.T. 0.000 min

Lab File: BN038214.D

Acq: 26 Nov 2025 21:48

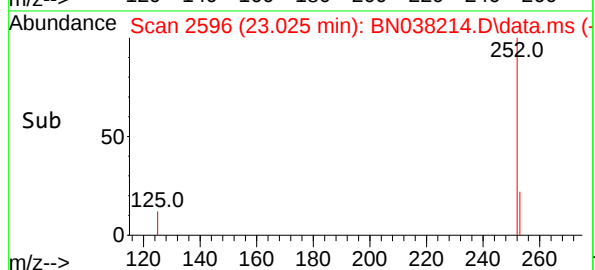
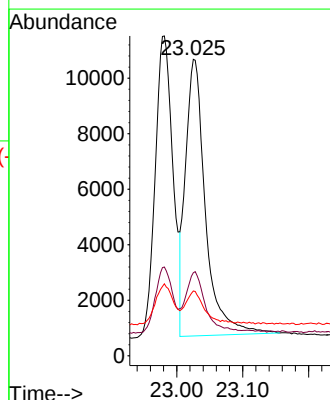
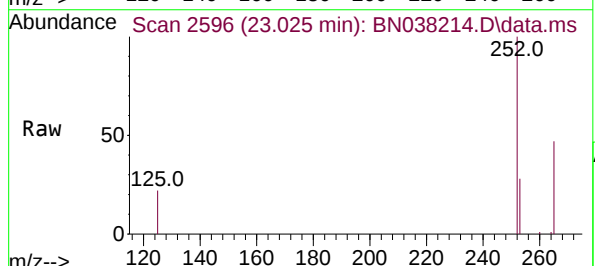
Tgt Ion:252 Resp: 21024

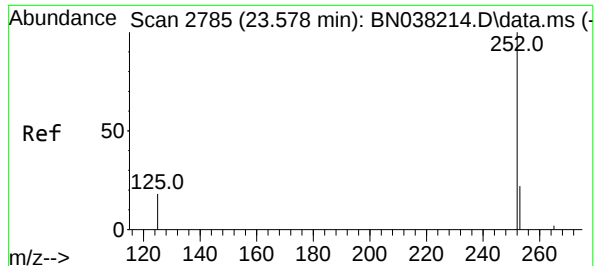
Ion Ratio Lower Upper

252 100

253 28.0 22.4 33.6

125 21.9 17.5 26.3





#39

Benzo(a)pyrene

Concen: 0.403 ng

RT: 23.578 min Scan# 21

Delta R.T. 0.000 min

Lab File: BN038214.D

Acq: 26 Nov 2025 21:48

Instrument :

BNA\_N

ClientSampleId :

SSTDICCC0.4

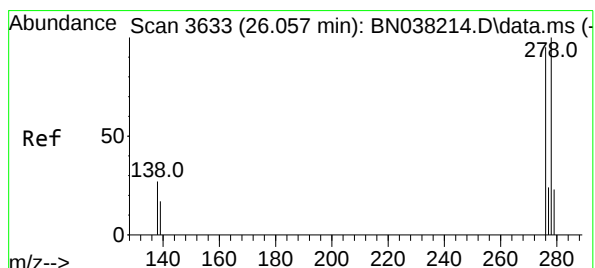
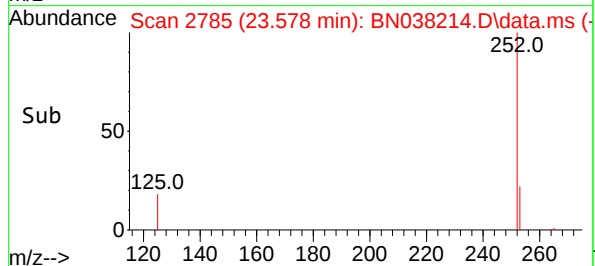
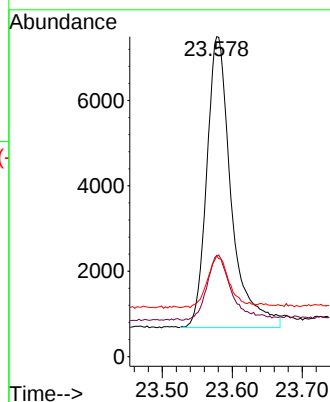
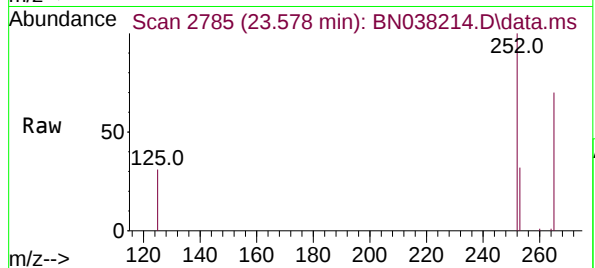
Tgt Ion:252 Resp: 16572

Ion Ratio Lower Upper

252 100

253 31.6 25.3 37.9

125 31.5 25.2 37.8



#40

Dibenzo(a,h)anthracene

Concen: 0.394 ng

RT: 26.057 min Scan# 3633

Delta R.T. 0.000 min

Lab File: BN038214.D

Acq: 26 Nov 2025 21:48

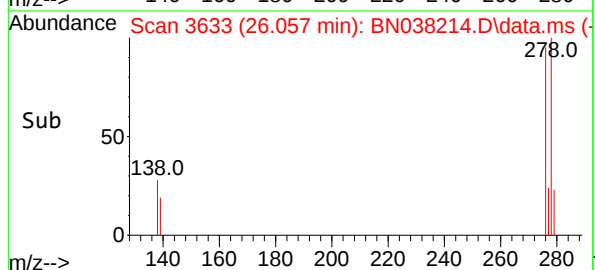
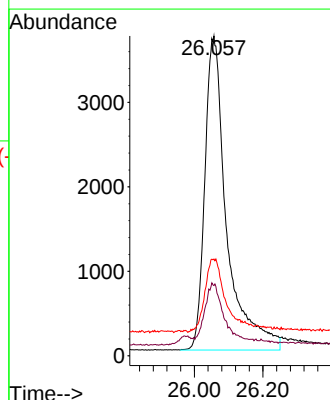
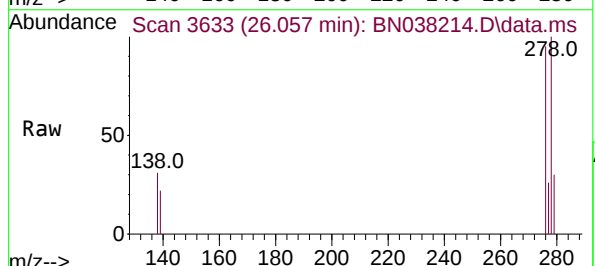
Tgt Ion:278 Resp: 16493

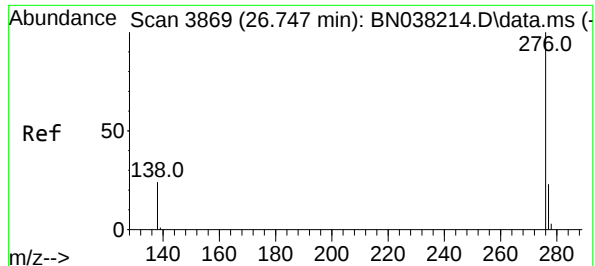
Ion Ratio Lower Upper

278 100

139 22.0 17.6 26.4

279 30.3 24.2 36.4





#41

Benzo(g,h,i)perylene

Concen: 0.413 ng

RT: 26.747 min Scan# 3869

Delta R.T. 0.000 min

Lab File: BN038214.D

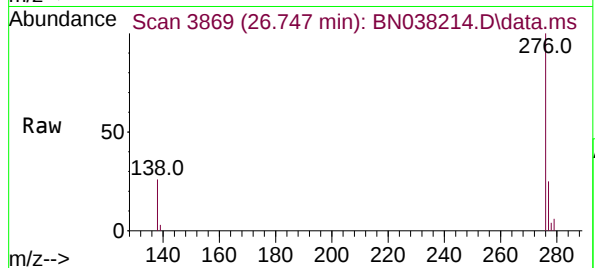
Acq: 26 Nov 2025 21:48

Instrument :

BNA\_N

ClientSampleId :

SSTDICCC0.4



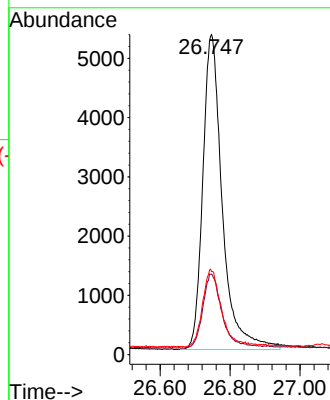
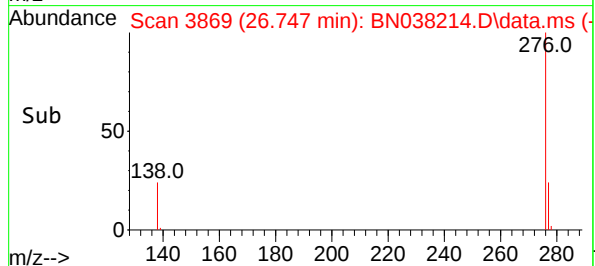
Tgt Ion: 276 Resp: 20578

Ion Ratio Lower Upper

276 100

277 25.2 20.2 30.2

138 26.0 20.8 31.2

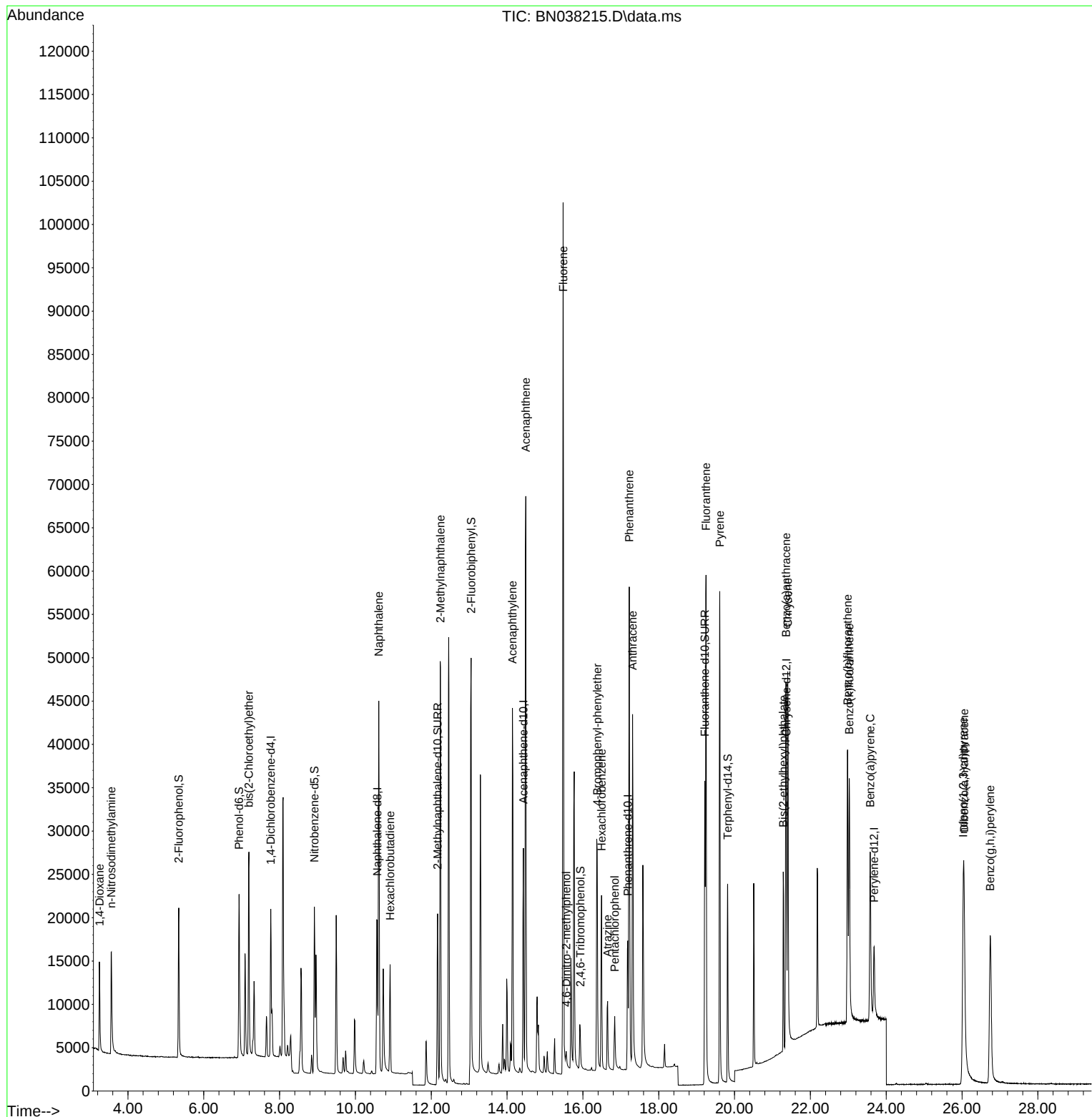


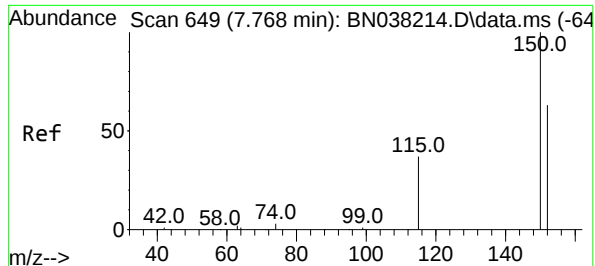


Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN112725\  
Data File : BN038215.D  
Acq On : 26 Nov 2025 22:25  
Operator : RC/JU  
Sample : SSTDICC0.8  
Misc :  
ALS Vial : 15 Sample Multiplier: 1

Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC0.8

Quant Time: Nov 28 20:55:08 2025  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\8270-SIM-BN112725.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Fri Nov 28 20:22:09 2025  
Response via : Initial Calibration

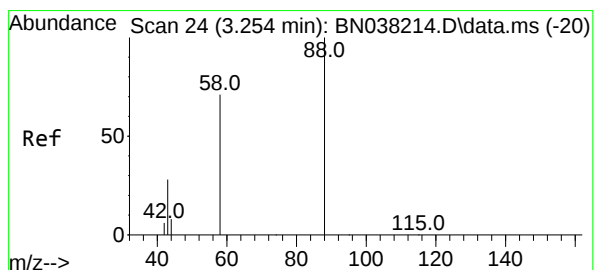
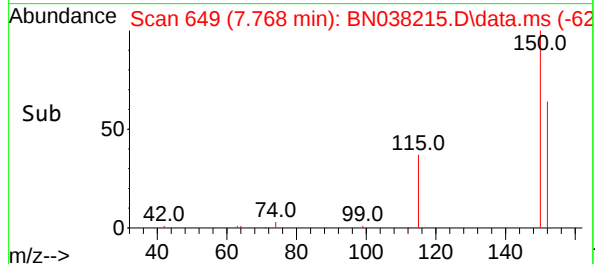
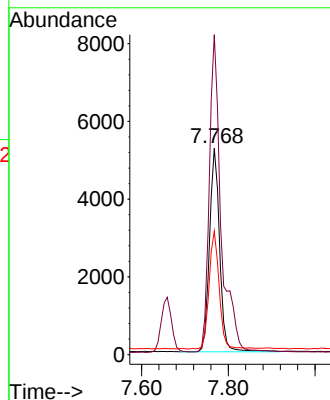
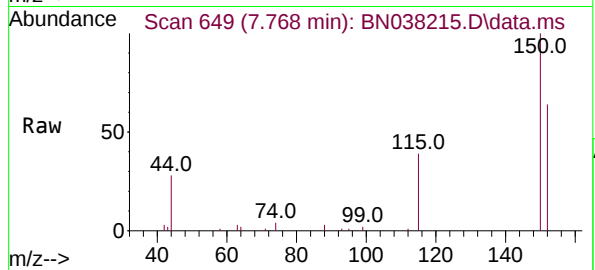




#1  
1,4-Dichlorobenzene-d4  
Concen: 0.400 ng  
RT: 7.768 min Scan# 64  
Delta R.T. -0.000 min  
Lab File: BN038215.D  
Acq: 26 Nov 2025 22:25

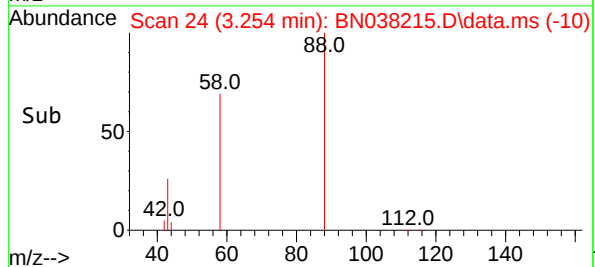
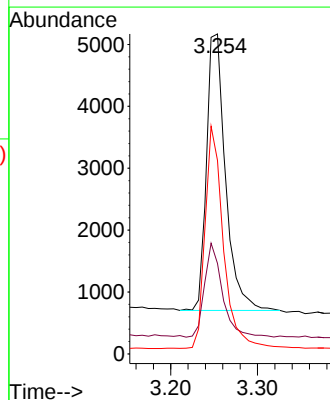
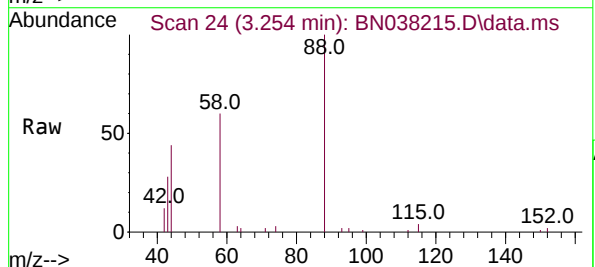
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC0.8

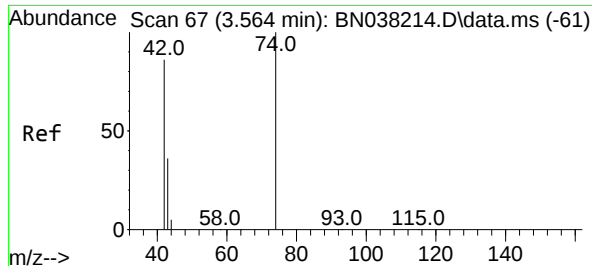
Tgt Ion:152 Resp: 8546  
Ion Ratio Lower Upper  
152 100  
150 155.1 125.3 187.9  
115 59.8 49.0 73.4



#2  
1,4-Dioxane  
Concen: 0.752 ng  
RT: 3.254 min Scan# 24  
Delta R.T. 0.000 min  
Lab File: BN038215.D  
Acq: 26 Nov 2025 22:25

Tgt Ion: 88 Resp: 6773  
Ion Ratio Lower Upper  
88 100  
43 32.1 24.8 37.2  
58 77.6 61.1 91.7

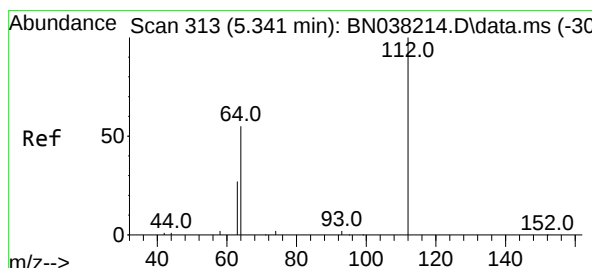
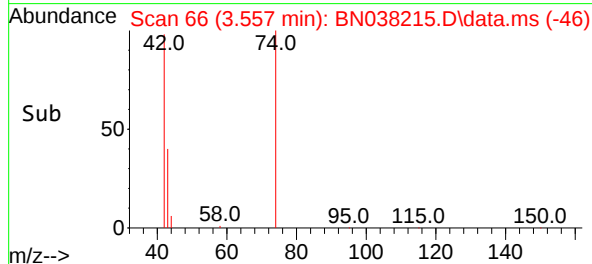
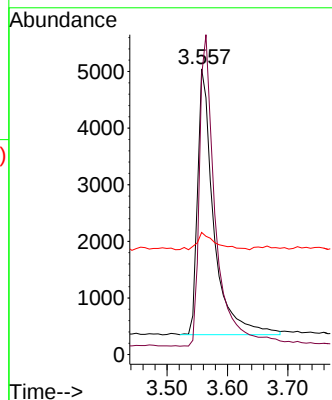
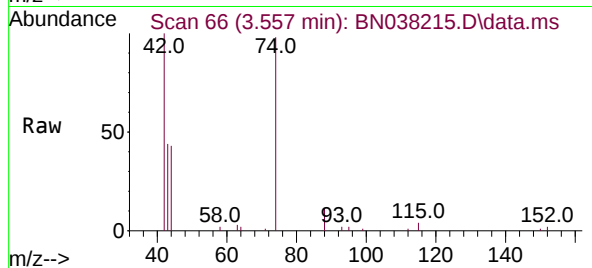




#3  
n-Nitrosodimethylamine  
Concen: 0.790 ng  
RT: 3.557 min Scan# 60  
Delta R.T. -0.007 min  
Lab File: BN038215.D  
Acq: 26 Nov 2025 22:25

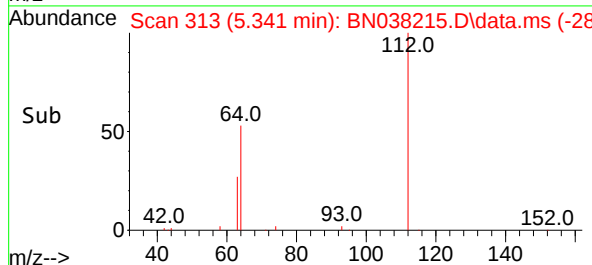
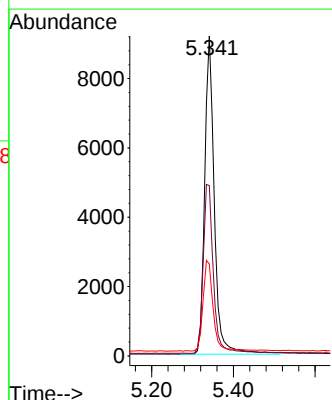
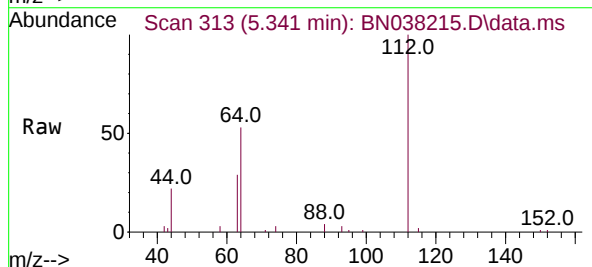
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC0.8

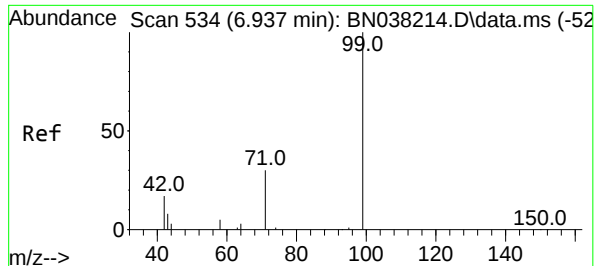
Tgt Ion: 42 Resp: 8767  
Ion Ratio Lower Upper  
42 100  
74 117.4 96.2 144.2  
44 7.3 8.0 12.0#



#4  
2-Fluorophenol  
Concen: 0.754 ng  
RT: 5.341 min Scan# 313  
Delta R.T. 0.000 min  
Lab File: BN038215.D  
Acq: 26 Nov 2025 22:25

Tgt Ion: 112 Resp: 15064  
Ion Ratio Lower Upper  
112 100  
64 56.7 45.0 67.4  
63 30.1 23.2 34.8

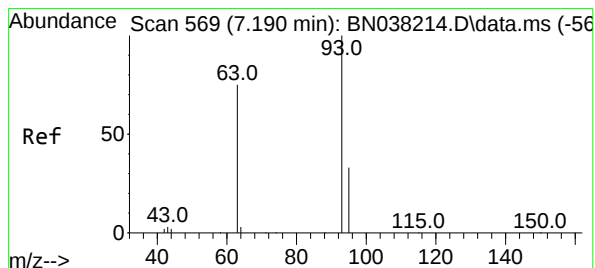
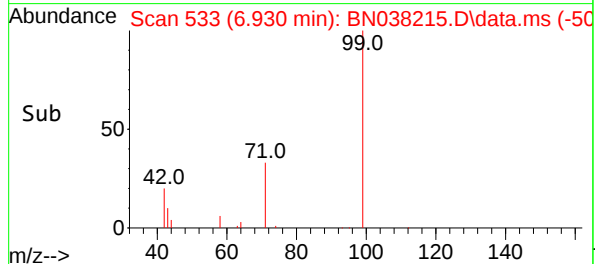
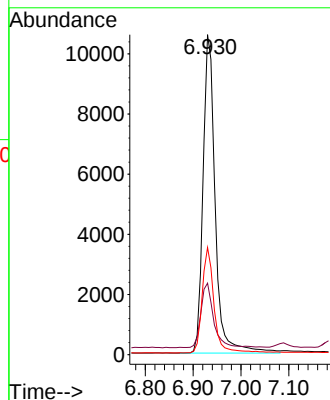
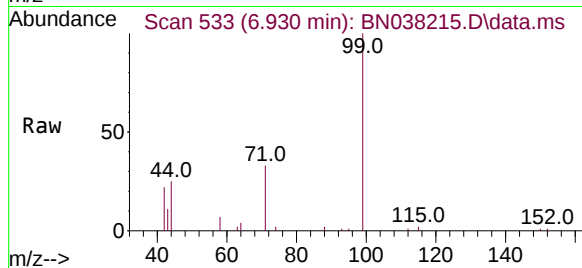




#5  
Phenol-d6  
Concen: 0.752 ng  
RT: 6.930 min Scan# 534  
Delta R.T. -0.007 min  
Lab File: BN038215.D  
Acq: 26 Nov 2025 22:25

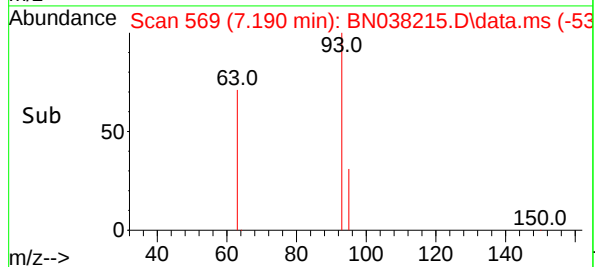
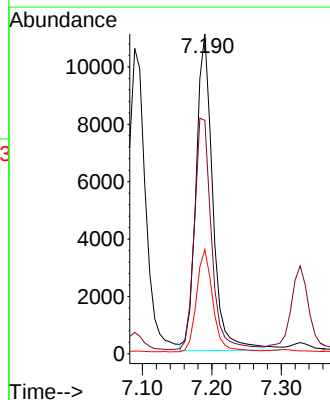
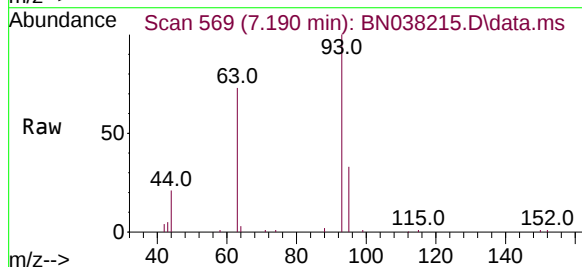
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC0.8

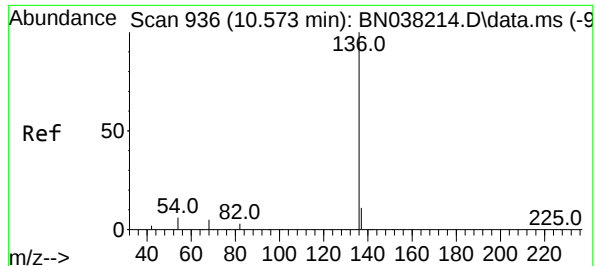
Tgt Ion: 99 Resp: 18777  
Ion Ratio Lower Upper  
99 100  
42 20.9 17.0 25.6  
71 32.5 25.4 38.2



#6  
bis(2-Chloroethyl)ether  
Concen: 0.777 ng  
RT: 7.190 min Scan# 569  
Delta R.T. 0.000 min  
Lab File: BN038215.D  
Acq: 26 Nov 2025 22:25

Tgt Ion: 93 Resp: 18562  
Ion Ratio Lower Upper  
93 100  
63 74.2 58.1 87.1  
95 31.5 25.1 37.7

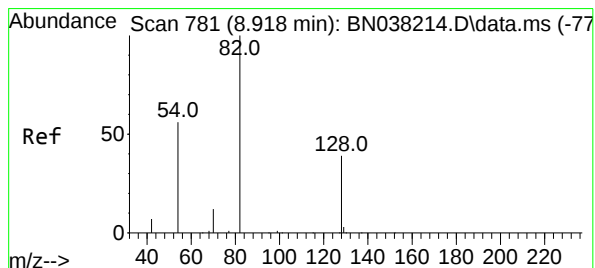
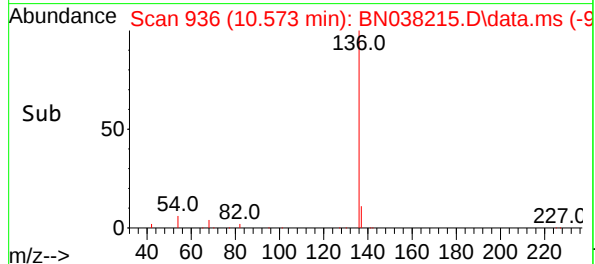
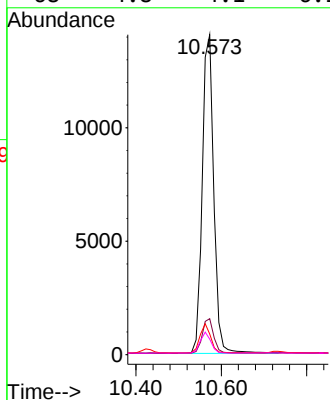
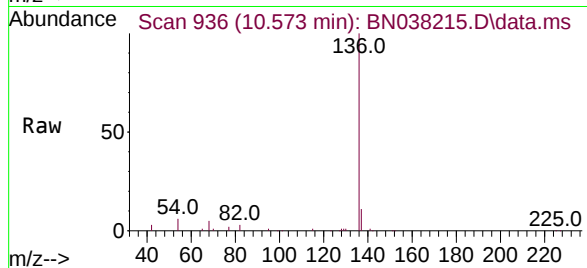




#7  
Naphthalene-d8  
Concen: 0.400 ng  
RT: 10.573 min Scan# 936  
Delta R.T. 0.000 min  
Lab File: BN038215.D  
Acq: 26 Nov 2025 22:25

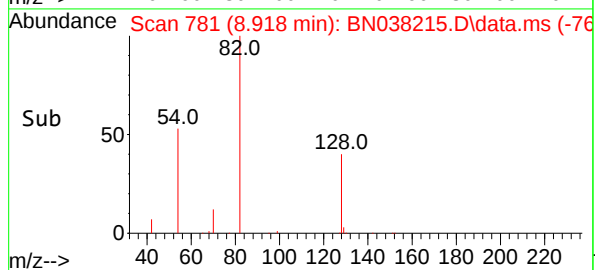
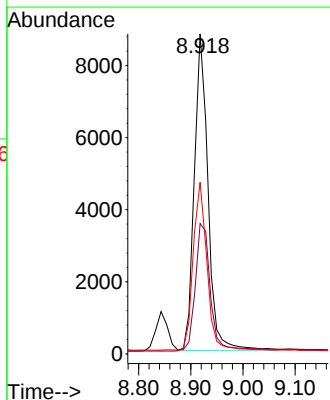
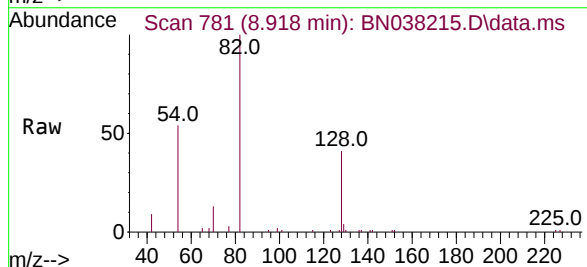
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC0.8

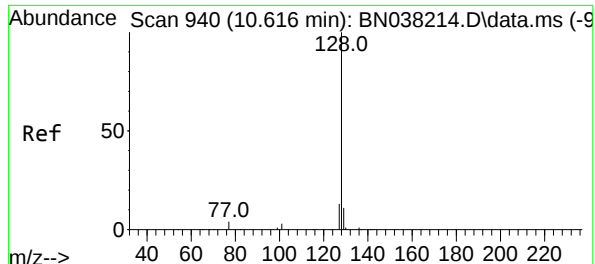
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 136   | Resp: | 26276 |
| Ion      | Ratio | Lower | Upper |
| 136      | 100   |       |       |
| 137      | 11.2  | 8.9   | 13.3  |
| 54       | 6.4   | 5.4   | 8.0   |
| 68       | 4.8   | 4.1   | 6.1   |



#8  
Nitrobenzene-d5  
Concen: 0.761 ng  
RT: 8.918 min Scan# 781  
Delta R.T. 0.000 min  
Lab File: BN038215.D  
Acq: 26 Nov 2025 22:25

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 82    | Resp: | 15990 |
| Ion      | Ratio | Lower | Upper |
| 82       | 100   |       |       |
| 128      | 40.7  | 32.6  | 48.8  |
| 54       | 53.6  | 45.4  | 68.0  |

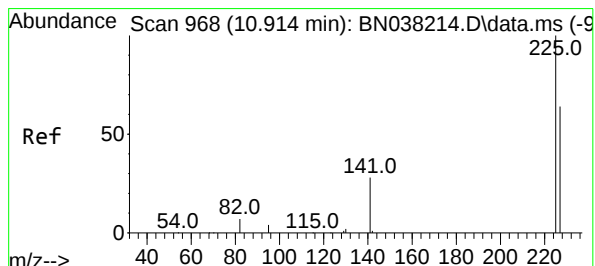
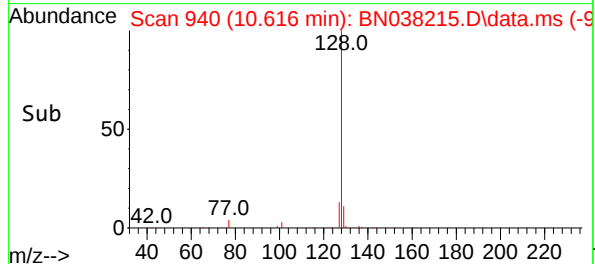
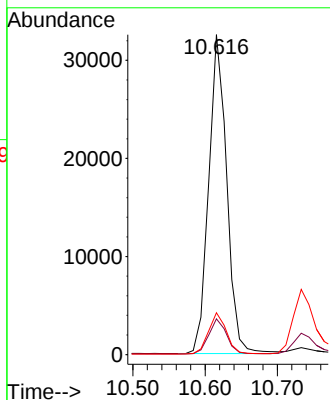
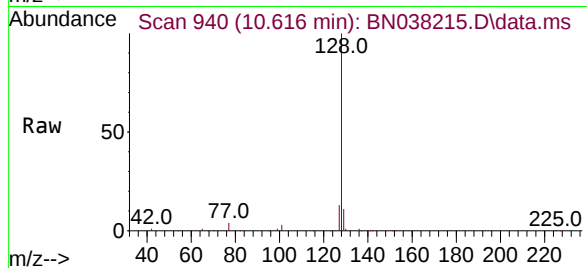




#9  
Naphthalene  
Concen: 0.774 ng  
RT: 10.616 min Scan# 940  
Delta R.T. 0.000 min  
Lab File: BN038215.D  
Acq: 26 Nov 2025 22:25

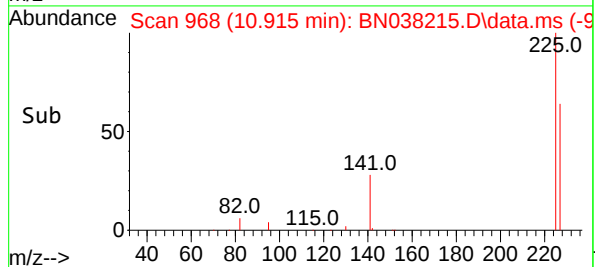
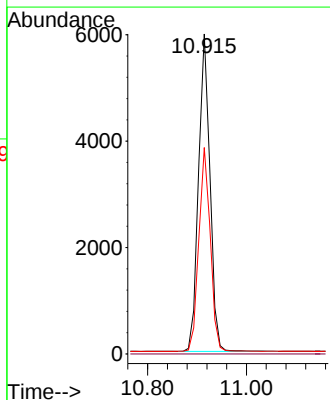
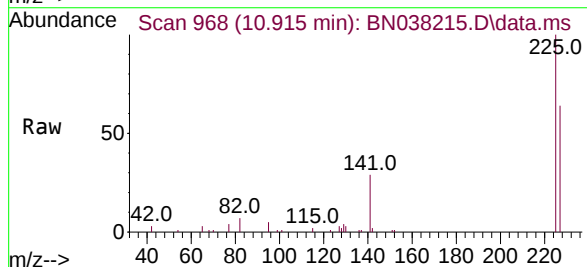
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC0.8

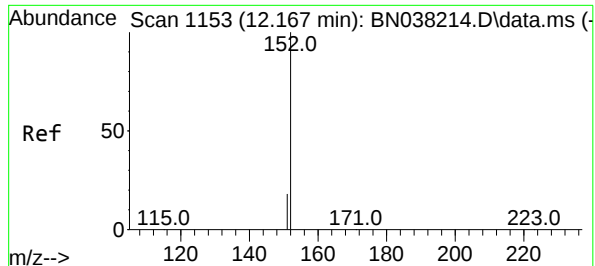
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 128     | 100   |       |       |
| 129     | 11.2  | 9.1   | 13.7  |
| 127     | 13.1  | 10.6  | 16.0  |



#10  
Hexachlorobutadiene  
Concen: 0.772 ng  
RT: 10.915 min Scan# 968  
Delta R.T. 0.000 min  
Lab File: BN038215.D  
Acq: 26 Nov 2025 22:25

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 225     | 100   |       |       |
| 223     | 0.0   | 0.0   | 0.0   |
| 227     | 64.4  | 50.5  | 75.7  |

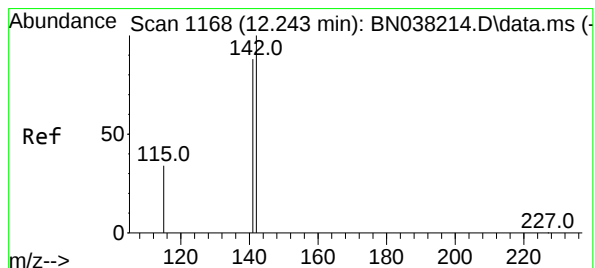
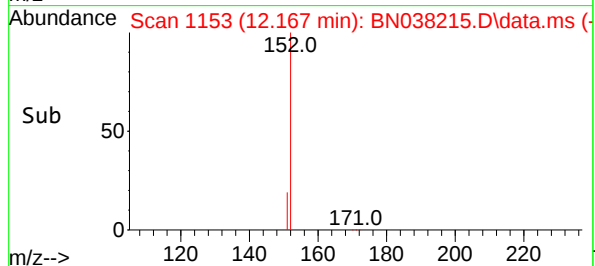
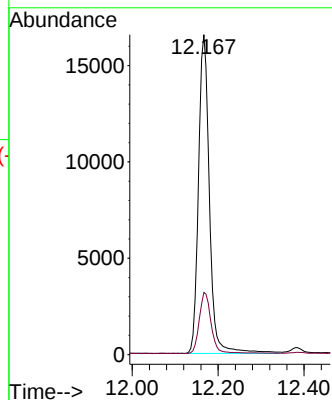
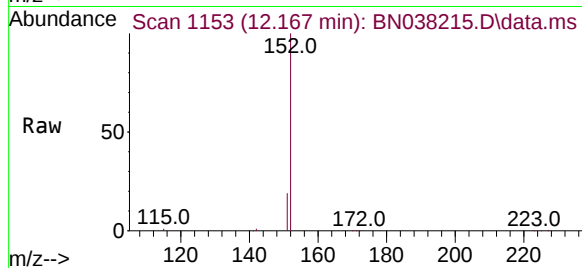




#11  
2-Methylnaphthalene-d10  
Concen: 0.785 ng  
RT: 12.167 min Scan# 1153  
Delta R.T. 0.000 min  
Lab File: BN038215.D  
Acq: 26 Nov 2025 22:25

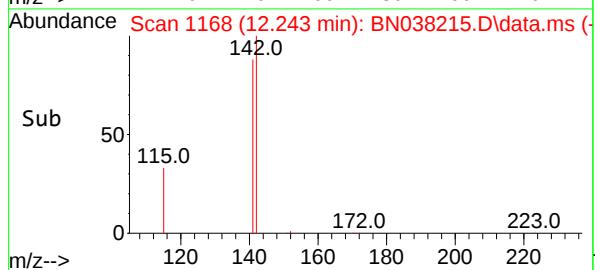
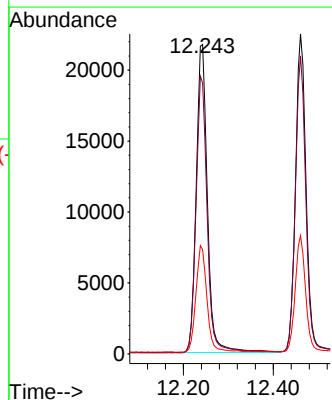
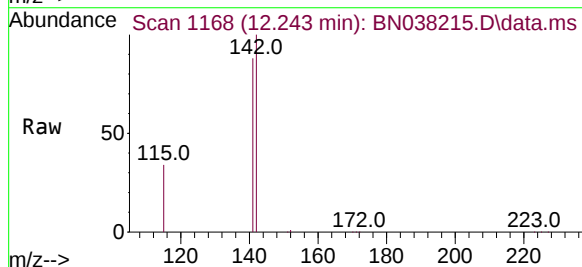
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC0.8

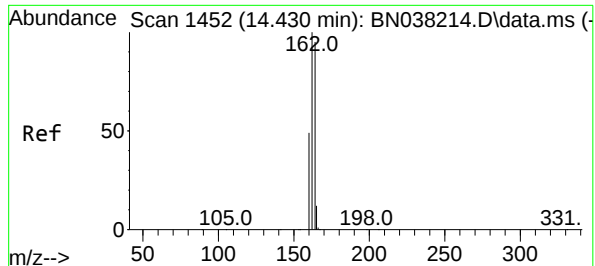
Tgt Ion:152 Resp: 29298  
Ion Ratio Lower Upper  
152 100  
151 20.7 16.7 25.1



#12  
2-Methylnaphthalene  
Concen: 0.786 ng  
RT: 12.243 min Scan# 1168  
Delta R.T. -0.000 min  
Lab File: BN038215.D  
Acq: 26 Nov 2025 22:25

Tgt Ion:142 Resp: 37750  
Ion Ratio Lower Upper  
142 100  
141 87.5 70.9 106.3  
115 33.7 27.7 41.5

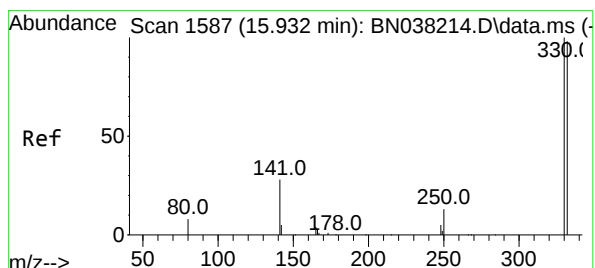
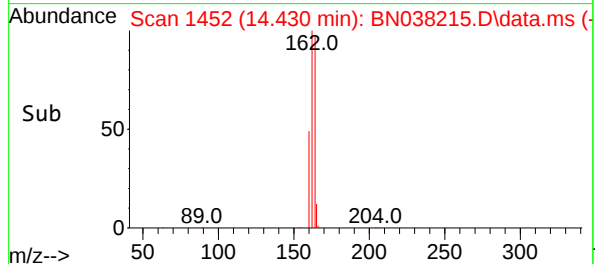
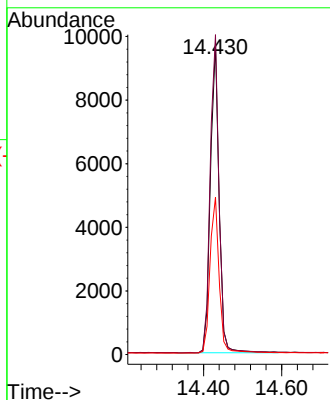
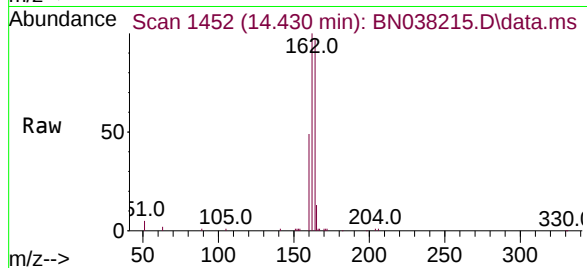




#13  
Acenaphthene-d10  
Concen: 0.400 ng  
RT: 14.430 min Scan# 1452  
Delta R.T. 0.000 min  
Lab File: BN038215.D  
Acq: 26 Nov 2025 22:25

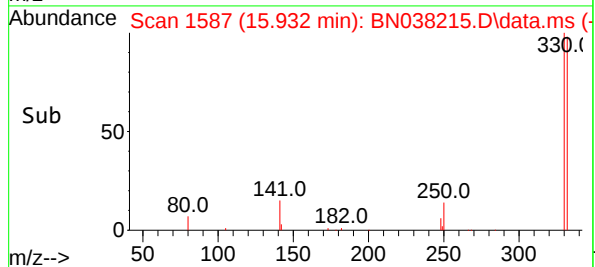
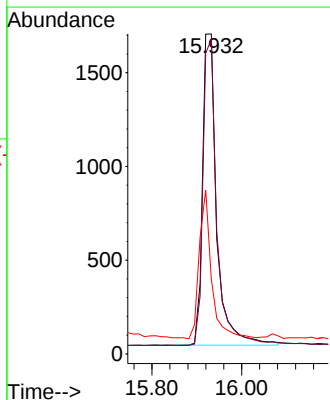
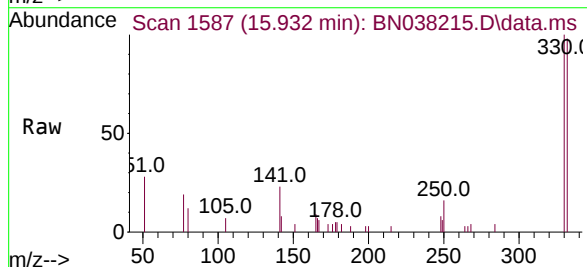
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC0.8

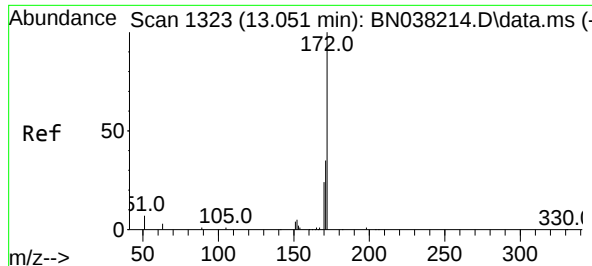
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 164     | 100   |       |       |
| 162     | 103.1 | 83.8  | 125.8 |
| 160     | 50.7  | 41.6  | 62.4  |



#14  
2,4,6-Tribromophenol  
Concen: 0.778 ng  
RT: 15.932 min Scan# 1587  
Delta R.T. 0.000 min  
Lab File: BN038215.D  
Acq: 26 Nov 2025 22:25

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 330     | 100   |       |       |
| 332     | 97.0  | 77.8  | 116.6 |
| 141     | 40.0  | 33.0  | 49.4  |





#15

2-Fluorobiphenyl

Concen: 0.801 ng

RT: 13.051 min Scan# 1323

Delta R.T. 0.000 min

Lab File: BN038215.D

Acq: 26 Nov 2025 22:25

Instrument :

BNA\_N

ClientSampleId :

SSTDICC0.8

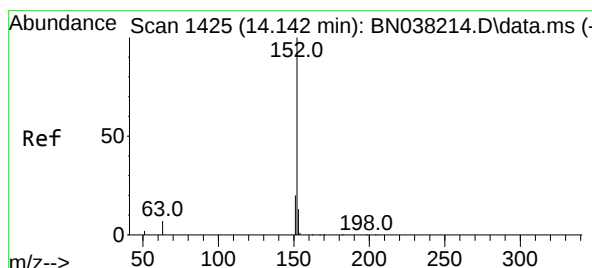
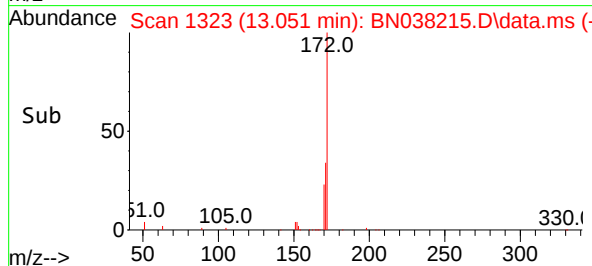
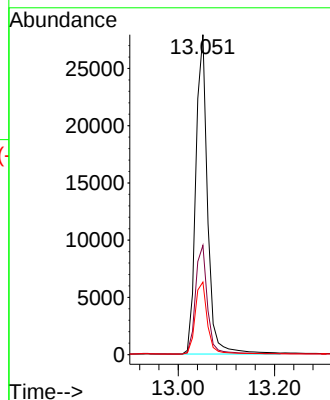
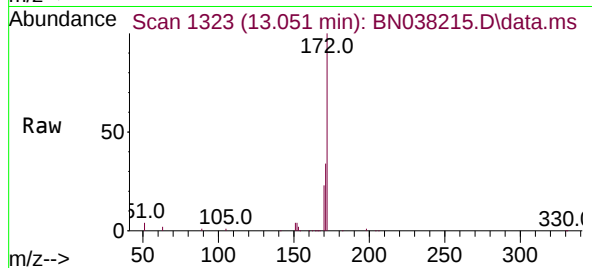
Tgt Ion:172 Resp: 46122

Ion Ratio Lower Upper

172 100

171 34.1 28.1 42.1

170 22.7 19.1 28.7



#16

Acenaphthylene

Concen: 0.761 ng

RT: 14.142 min Scan# 1425

Delta R.T. 0.000 min

Lab File: BN038215.D

Acq: 26 Nov 2025 22:25

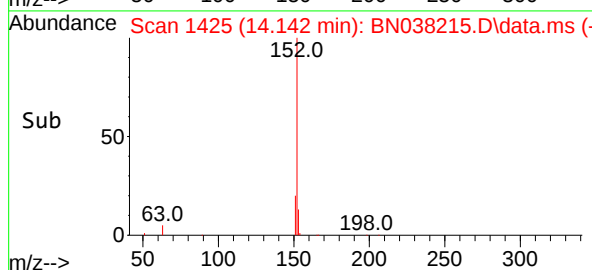
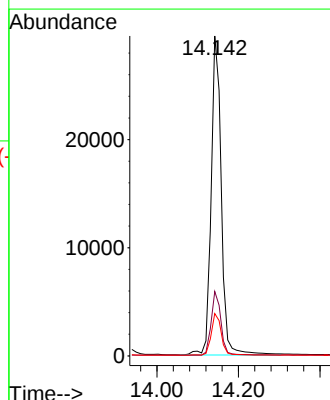
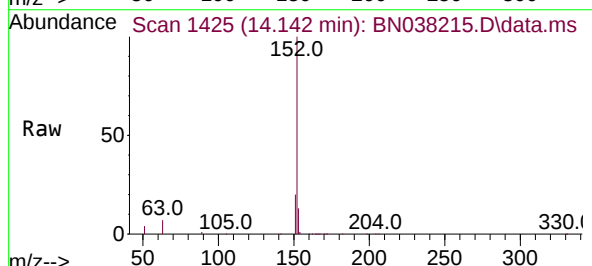
Tgt Ion:152 Resp: 50771

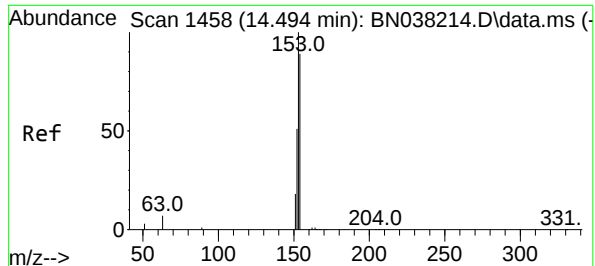
Ion Ratio Lower Upper

152 100

151 19.5 15.6 23.4

153 13.0 10.6 15.8

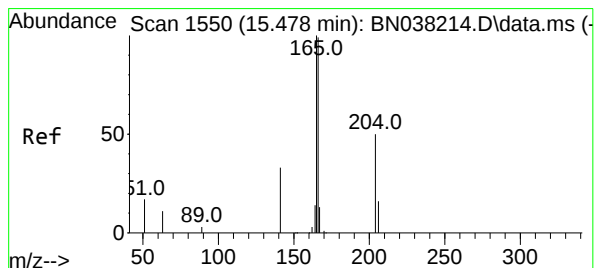
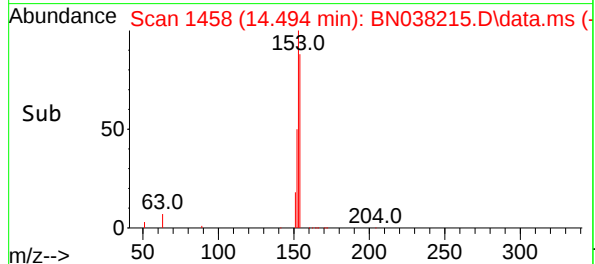
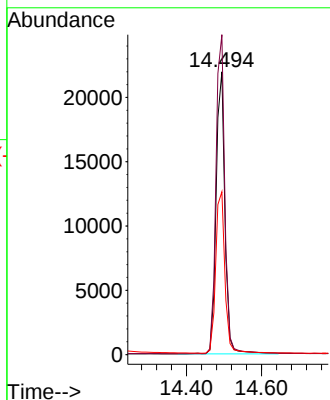
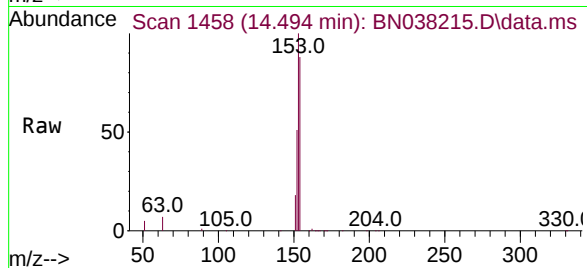




#17  
Acenaphthene  
Concen: 0.768 ng  
RT: 14.494 min Scan# 1458  
Delta R.T. 0.000 min  
Lab File: BN038215.D  
Acq: 26 Nov 2025 22:25

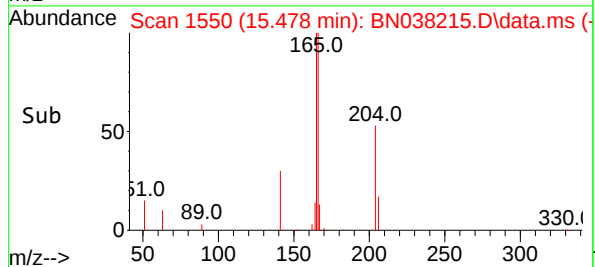
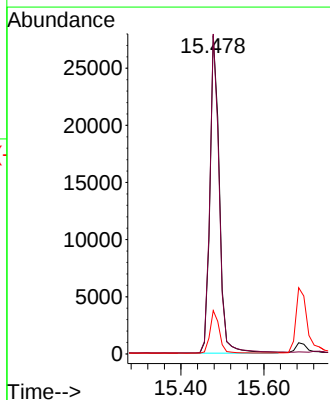
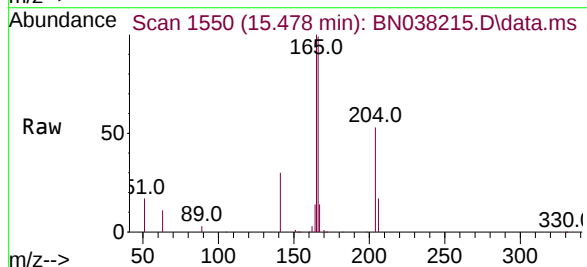
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC0.8

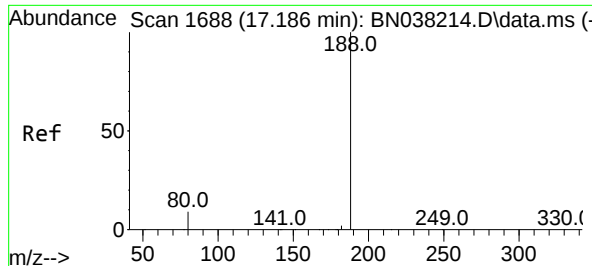
Tgt Ion:154 Resp: 35729  
Ion Ratio Lower Upper  
154 100  
153 114.6 91.1 136.7  
152 60.2 48.2 72.2



#18  
Fluorene  
Concen: 0.779 ng  
RT: 15.478 min Scan# 1550  
Delta R.T. 0.000 min  
Lab File: BN038215.D  
Acq: 26 Nov 2025 22:25

Tgt Ion:166 Resp: 46865  
Ion Ratio Lower Upper  
166 100  
165 100.0 78.7 118.1  
167 13.4 10.9 16.3





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 17.186 min Scan# 1

Delta R.T. 0.000 min

Lab File: BN038215.D

Acq: 26 Nov 2025 22:25

Instrument :

BNA\_N

ClientSampleId :

SSTDICC0.8

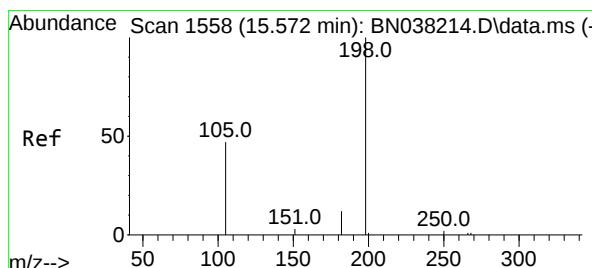
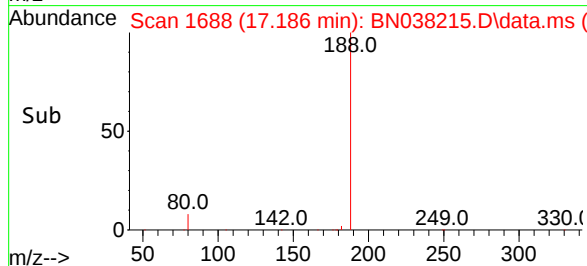
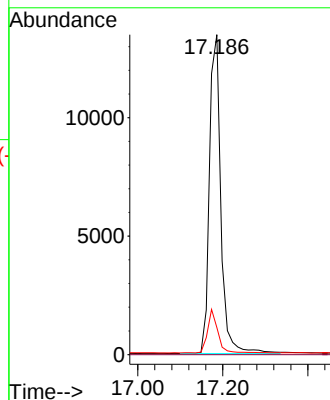
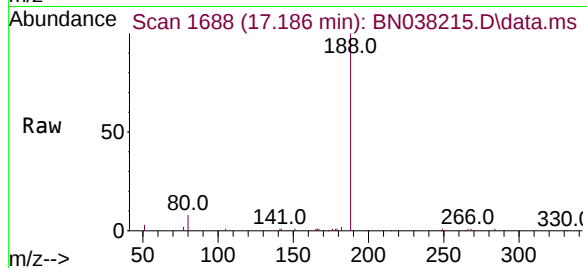
Tgt Ion:188 Resp: 25075

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 8.5 7.7 11.5



#20

4,6-Dinitro-2-methylphenol

Concen: 0.756 ng

RT: 15.560 min Scan# 1557

Delta R.T. -0.012 min

Lab File: BN038215.D

Acq: 26 Nov 2025 22:25

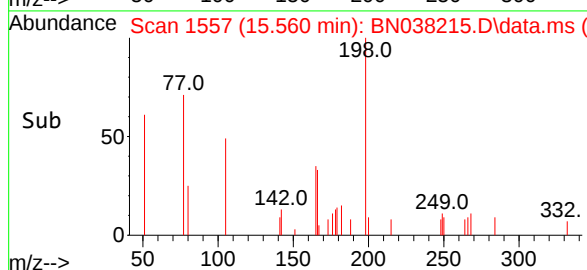
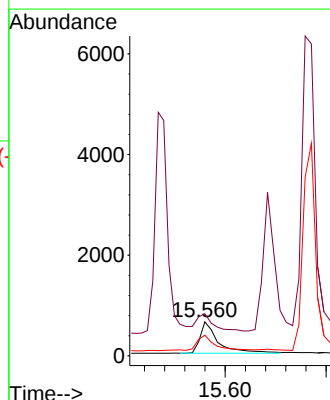
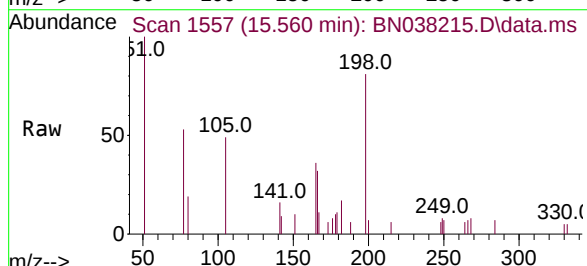
Tgt Ion:198 Resp: 1567

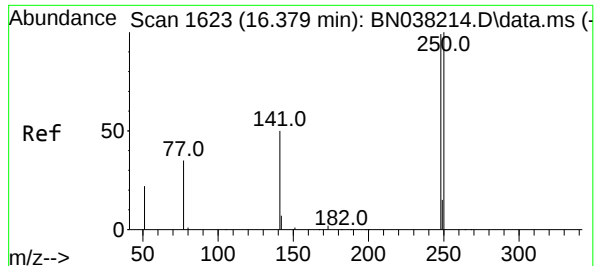
Ion Ratio Lower Upper

198 100

51 124.0 205.1 307.7#

105 61.1 61.6 92.4#

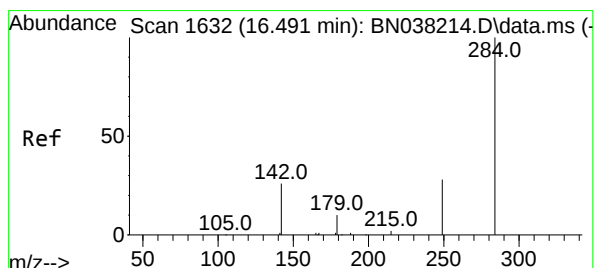
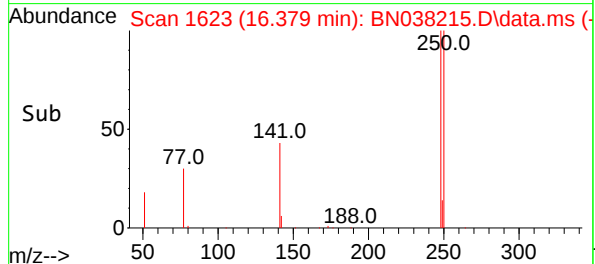
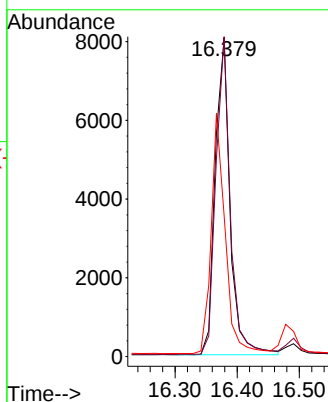
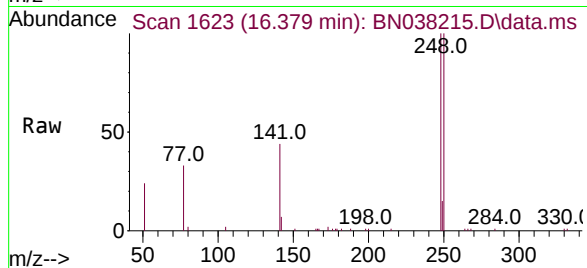




#21  
4-Bromophenyl-phenylether  
Concen: 0.774 ng  
RT: 16.379 min Scan# 1623  
Delta R.T. 0.000 min  
Lab File: BN038215.D  
Acq: 26 Nov 2025 22:25

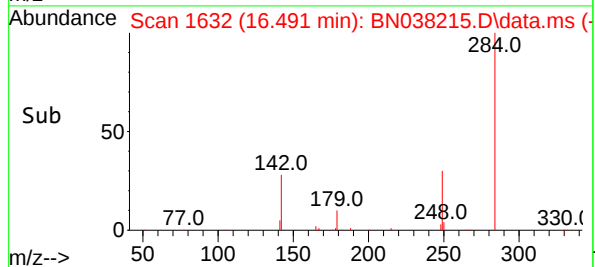
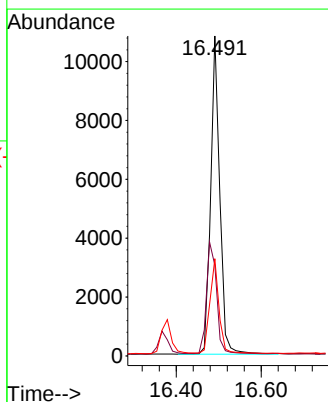
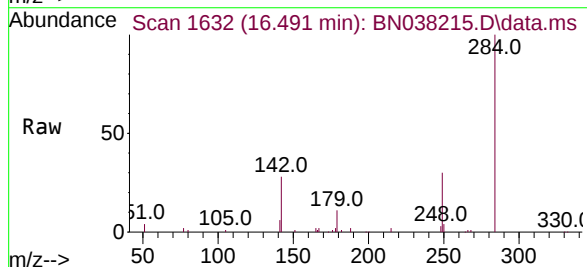
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BNA\_N  
ClientSampleId :  
SSTDICC0.8

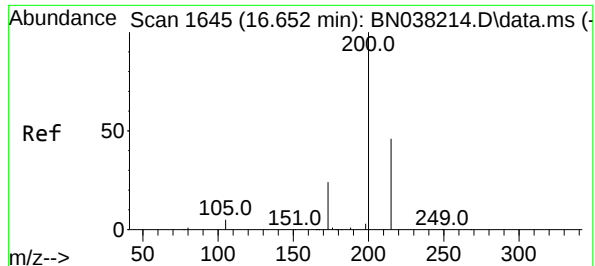
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 248     | 100   |       |       |
| 250     | 100.4 | 80.8  | 121.2 |
| 141     | 44.3  | 41.0  | 61.6  |



#22  
Hexachlorobenzene  
Concen: 0.752 ng  
RT: 16.491 min Scan# 1632  
Delta R.T. 0.000 min  
Lab File: BN038215.D  
Acq: 26 Nov 2025 22:25

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 284     | 100   |       |       |
| 142     | 38.8  | 30.5  | 45.7  |
| 249     | 30.0  | 23.8  | 35.8  |

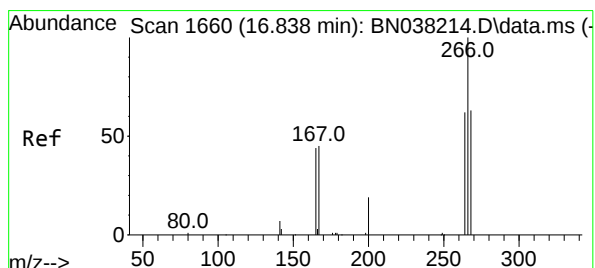
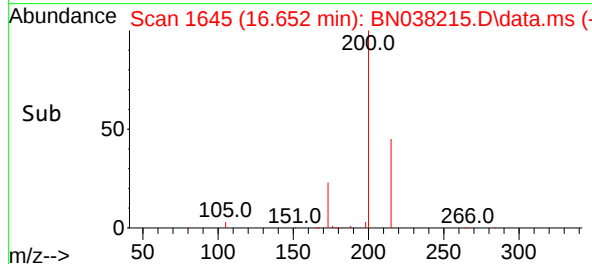
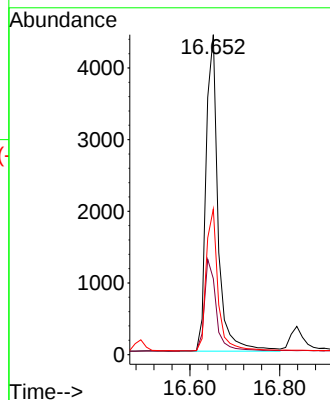
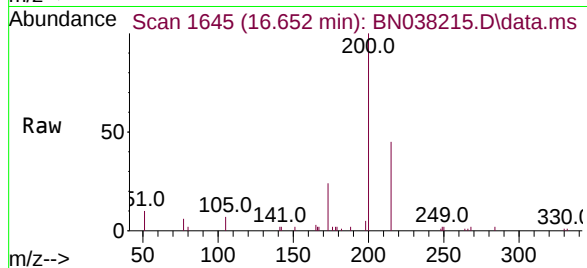




#23  
Atrazine  
Concen: 0.741 ng  
RT: 16.652 min Scan# 1645  
Delta R.T. 0.000 min  
Lab File: BN038215.D  
Acq: 26 Nov 2025 22:25

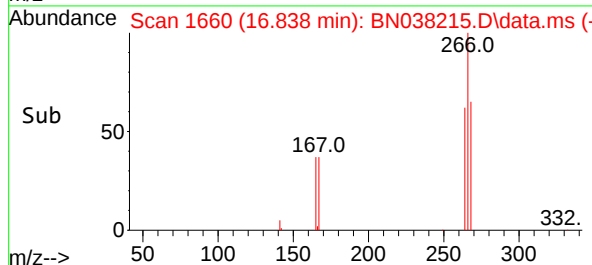
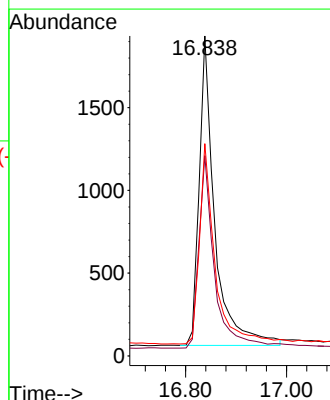
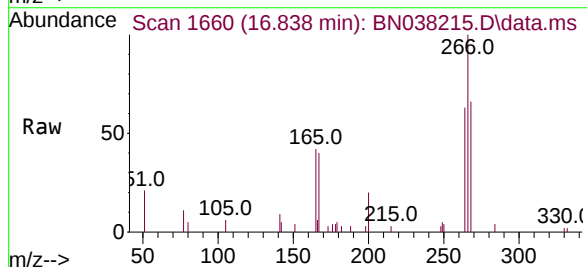
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC0.8

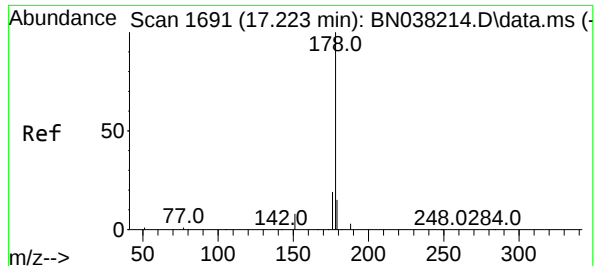
Tgt Ion:200 Resp: 8217  
Ion Ratio Lower Upper  
200 100  
173 23.7 21.0 31.6  
215 45.5 37.8 56.8



#24  
Pentachlorophenol  
Concen: 0.681 ng  
RT: 16.838 min Scan# 1660  
Delta R.T. 0.000 min  
Lab File: BN038215.D  
Acq: 26 Nov 2025 22:25

Tgt Ion:266 Resp: 3987  
Ion Ratio Lower Upper  
266 100  
264 62.8 48.9 73.3  
268 64.4 50.2 75.2





#25

Phenanthrene

Concen: 0.766 ng

RT: 17.223 min Scan# 1691

Delta R.T. 0.000 min

Lab File: BN038215.D

Acq: 26 Nov 2025 22:25

Instrument :

BNA\_N

ClientSampleId :

SSTDICC0.8

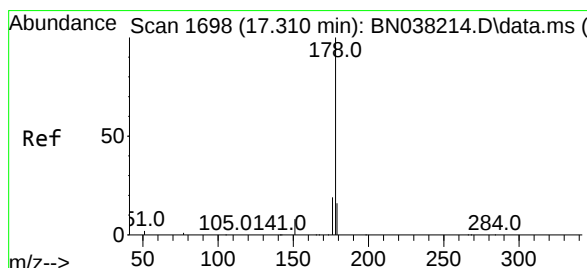
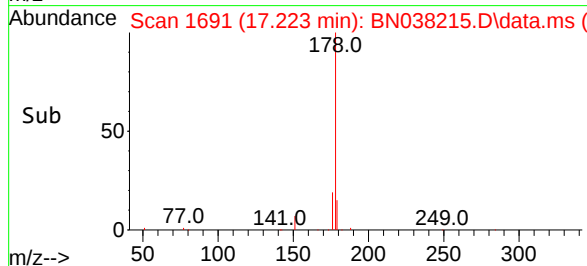
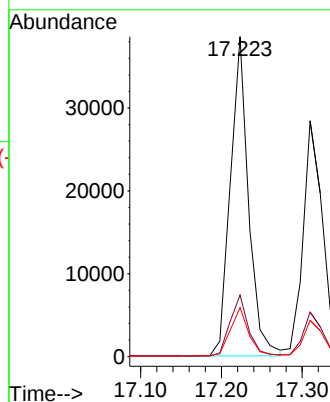
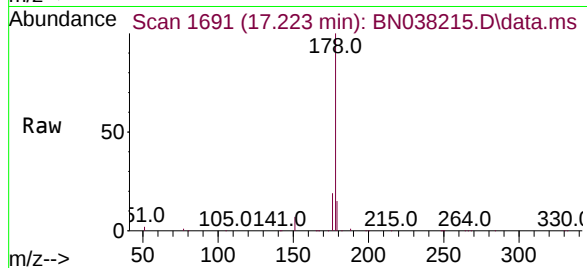
Tgt Ion:178 Resp: 60297

Ion Ratio Lower Upper

178 100

176 19.2 15.3 22.9

179 15.2 12.0 18.0



#26

Anthracene

Concen: 0.759 ng

RT: 17.310 min Scan# 1698

Delta R.T. 0.000 min

Lab File: BN038215.D

Acq: 26 Nov 2025 22:25

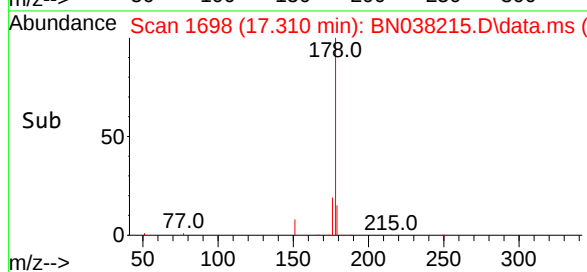
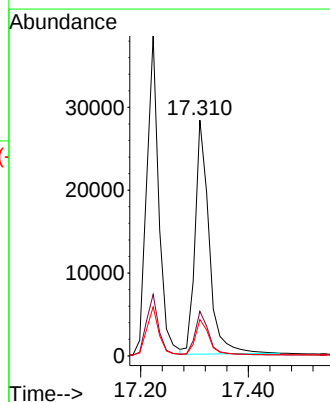
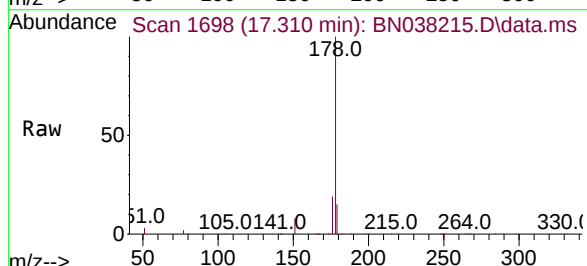
Tgt Ion:178 Resp: 50969

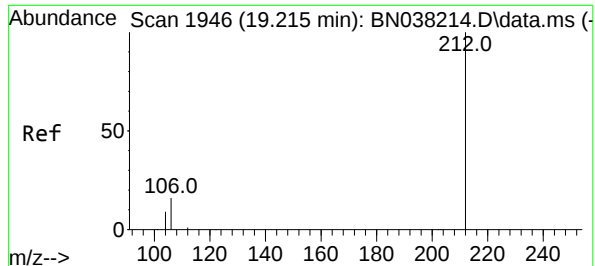
Ion Ratio Lower Upper

178 100

176 18.6 14.7 22.1

179 15.2 12.3 18.5





#27

Fluoranthene-d10

Concen: 0.753 ng

RT: 19.215 min Scan# 1946

Delta R.T. 0.000 min

Lab File: BN038215.D

Acq: 26 Nov 2025 22:25

Instrument :

BNA\_N

ClientSampleId :

SSTDICC0.8

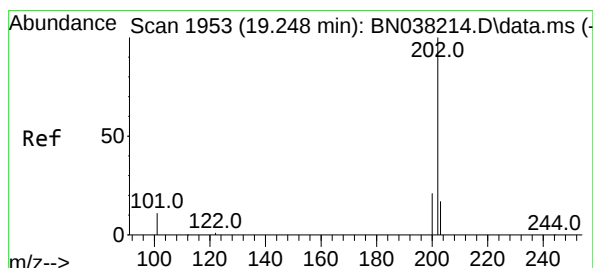
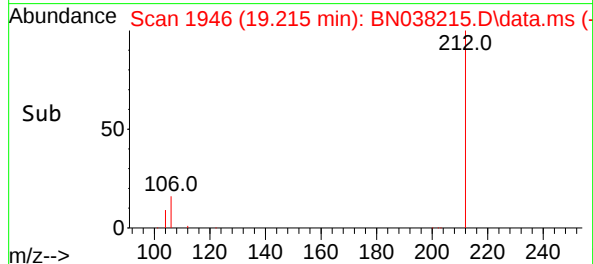
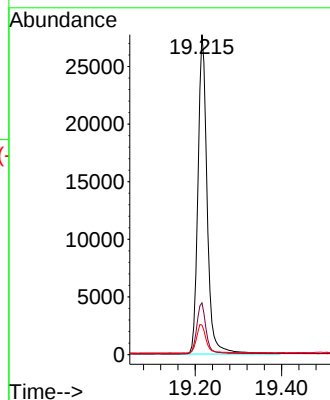
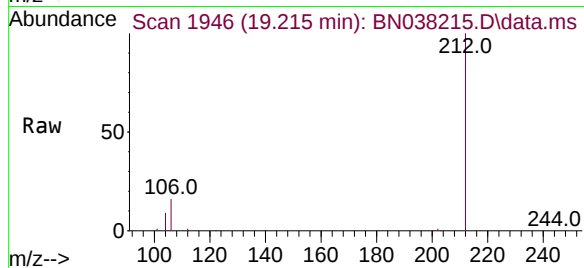
Tgt Ion:212 Resp: 40949

Ion Ratio Lower Upper

212 100

106 16.2 12.7 19.1

104 9.2 7.3 10.9



#28

Fluoranthene

Concen: 0.758 ng

RT: 19.248 min Scan# 1953

Delta R.T. 0.000 min

Lab File: BN038215.D

Acq: 26 Nov 2025 22:25

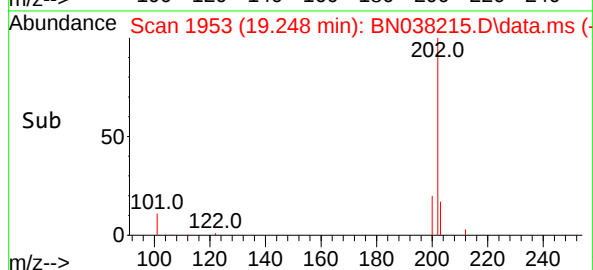
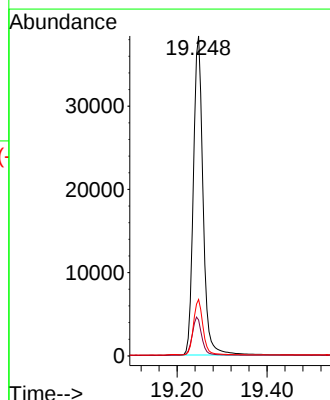
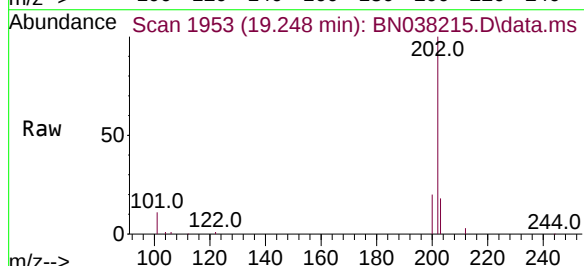
Tgt Ion:202 Resp: 57482

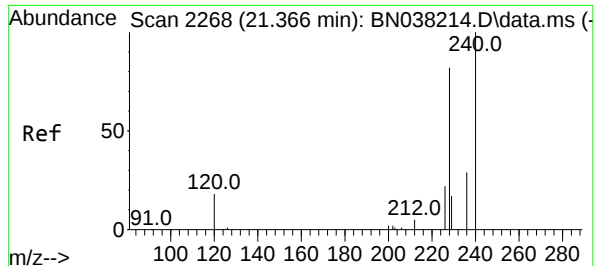
Ion Ratio Lower Upper

202 100

101 12.2 9.8 14.6

203 16.9 13.6 20.4





#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.366 min Scan# 21

Delta R.T. 0.000 min

Lab File: BN038215.D

Acq: 26 Nov 2025 22:25

Instrument :

BNA\_N

ClientSampleId :

SSTDICC0.8

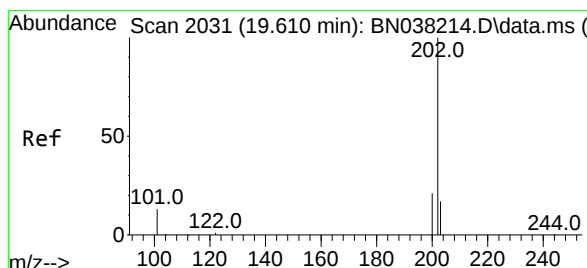
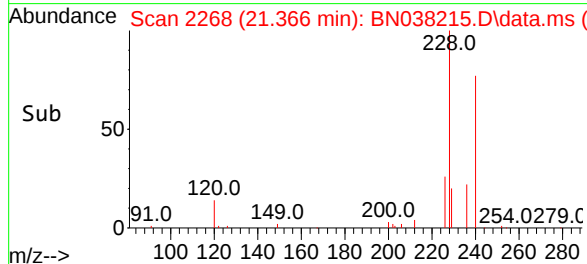
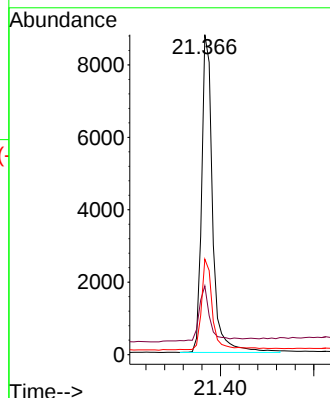
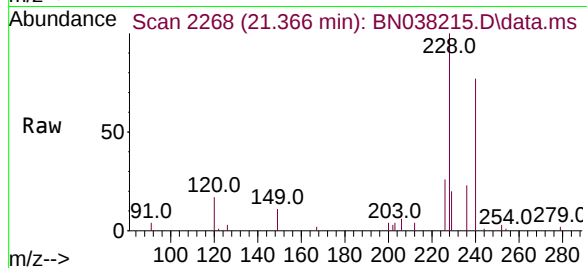
Tgt Ion:240 Resp: 14204

Ion Ratio Lower Upper

240 100

120 21.5 18.1 27.1

236 29.8 24.2 36.4



#30

Pyrene

Concen: 0.789 ng

RT: 19.610 min Scan# 2031

Delta R.T. 0.000 min

Lab File: BN038215.D

Acq: 26 Nov 2025 22:25

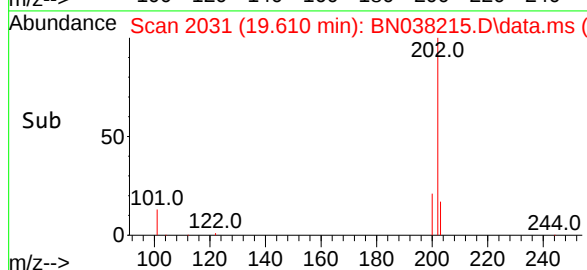
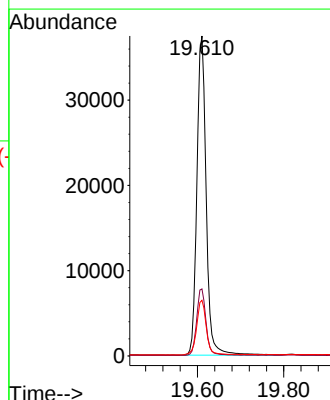
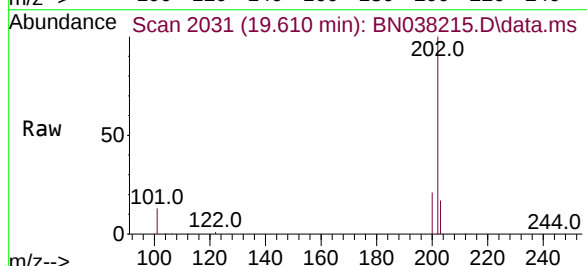
Tgt Ion:202 Resp: 56009

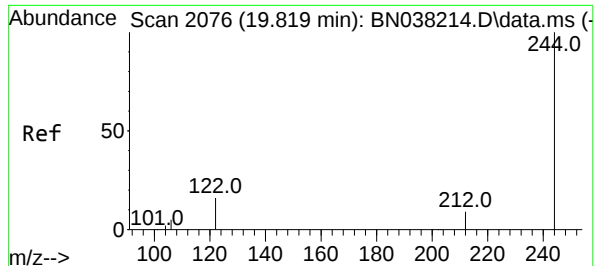
Ion Ratio Lower Upper

202 100

200 20.9 16.8 25.2

203 17.7 14.4 21.6

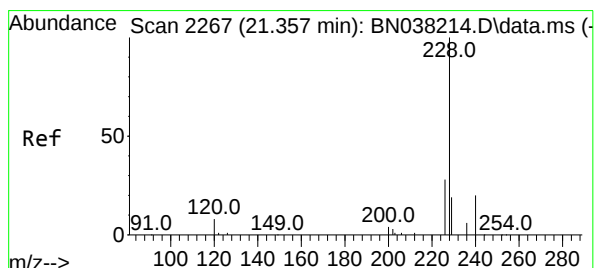
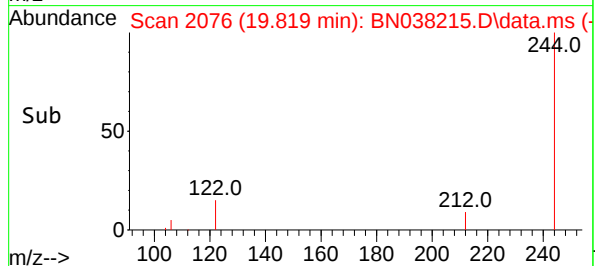
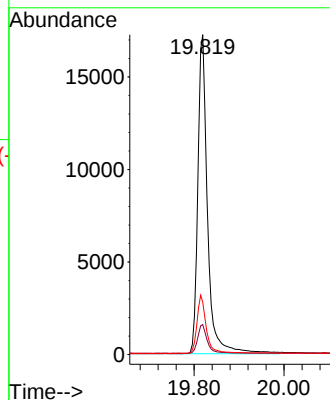
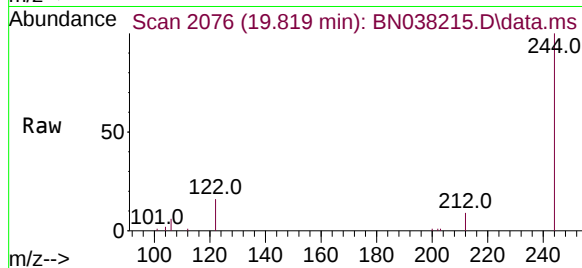




#31  
Terphenyl-d14  
Concen: 0.785 ng  
RT: 19.819 min Scan# 2076  
Delta R.T. 0.000 min  
Lab File: BN038215.D  
Acq: 26 Nov 2025 22:25

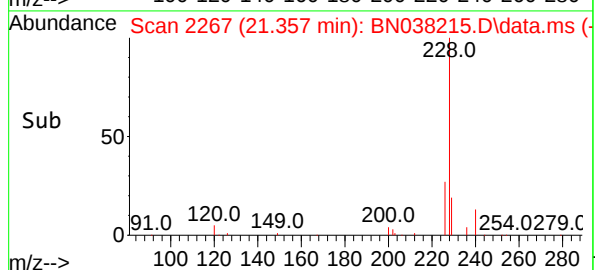
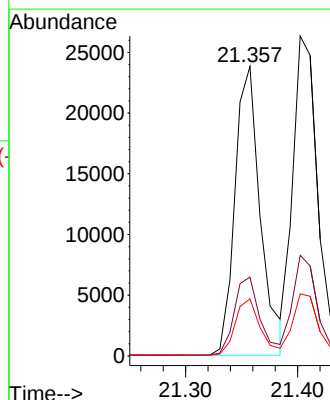
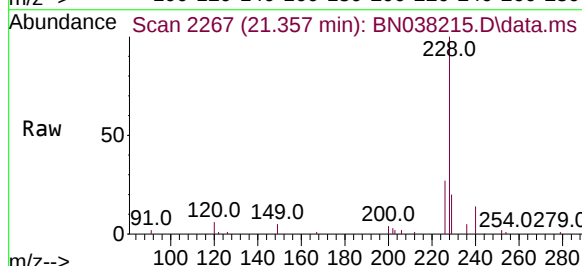
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC0.8

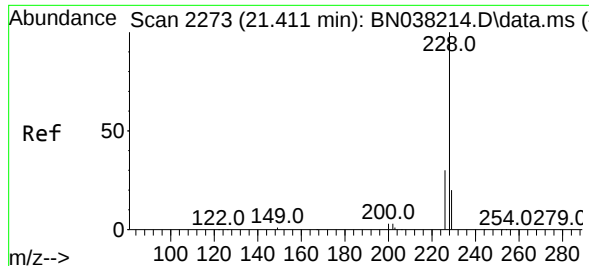
Tgt Ion:244 Resp: 25737  
Ion Ratio Lower Upper  
244 100  
212 9.4 7.7 11.5  
122 16.3 13.6 20.4



#32  
Benzo(a)anthracene  
Concen: 0.780 ng  
RT: 21.357 min Scan# 2267  
Delta R.T. 0.000 min  
Lab File: BN038215.D  
Acq: 26 Nov 2025 22:25

Tgt Ion:228 Resp: 37504  
Ion Ratio Lower Upper  
228 100  
226 27.2 22.6 33.8  
229 19.7 15.8 23.8





#33

Chrysene

Concen: 0.759 ng

RT: 21.402 min Scan# 21

Delta R.T. -0.009 min

Lab File: BN038215.D

Acq: 26 Nov 2025 22:25

Instrument :

BNA\_N

ClientSampleId :

SSTDICC0.8

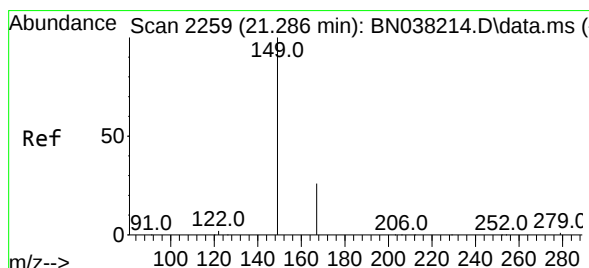
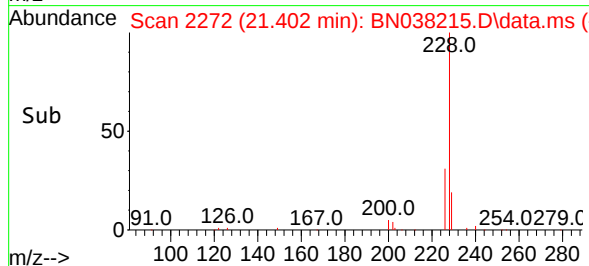
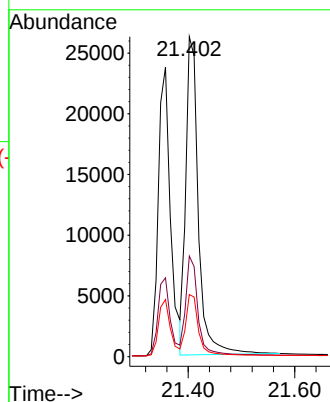
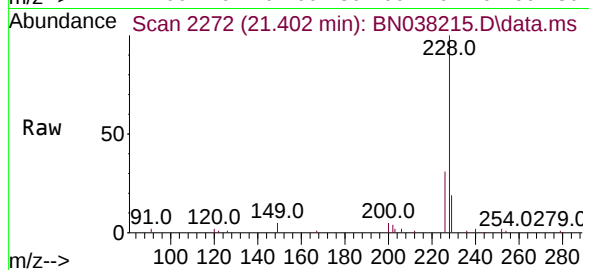
Tgt Ion:228 Resp: 43104

Ion Ratio Lower Upper

228 100

226 31.4 23.8 35.8

229 19.4 16.1 24.1



#34

Bis(2-ethylhexyl)phthalate

Concen: 0.755 ng

RT: 21.286 min Scan# 2259

Delta R.T. 0.000 min

Lab File: BN038215.D

Acq: 26 Nov 2025 22:25

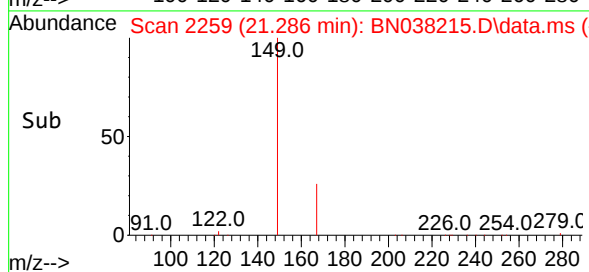
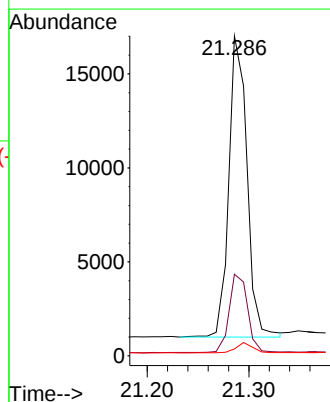
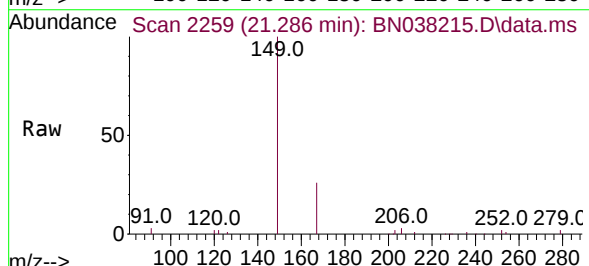
Tgt Ion:149 Resp: 19894

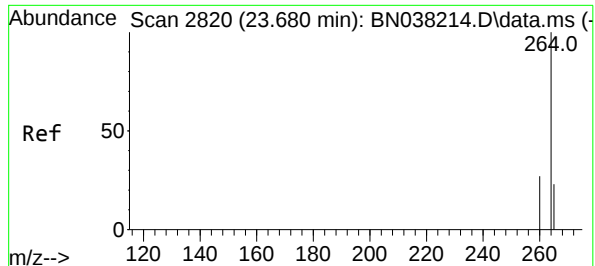
Ion Ratio Lower Upper

149 100

167 26.4 20.7 31.1

279 3.2 2.5 3.7





#35

Perylene-d12

Concen: 0.400 ng

RT: 23.680 min Scan# 2820

Delta R.T. 0.000 min

Lab File: BN038215.D

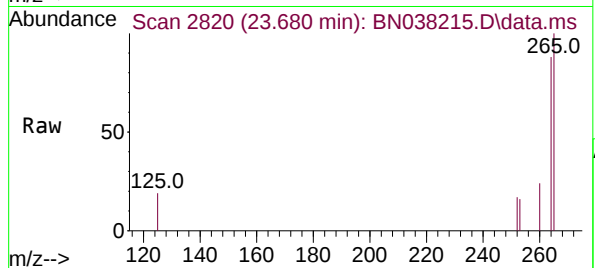
Acq: 26 Nov 2025 22:25

Instrument :

BNA\_N

ClientSampleId :

SSTDICC0.8



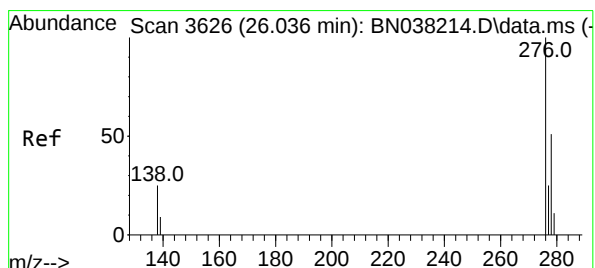
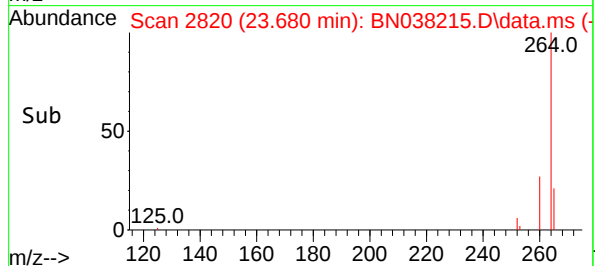
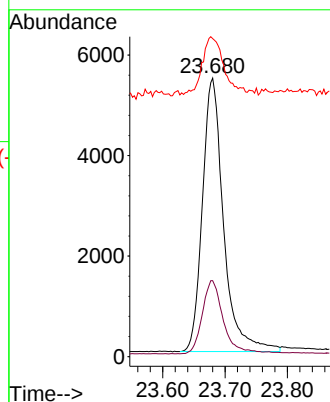
Tgt Ion:264 Resp: 12837

Ion Ratio Lower Upper

264 100

260 27.2 21.7 32.5

265 114.1 98.0 147.0



#36

Indeno(1,2,3-cd)pyrene

Concen: 0.750 ng

RT: 26.031 min Scan# 3624

Delta R.T. -0.006 min

Lab File: BN038215.D

Acq: 26 Nov 2025 22:25

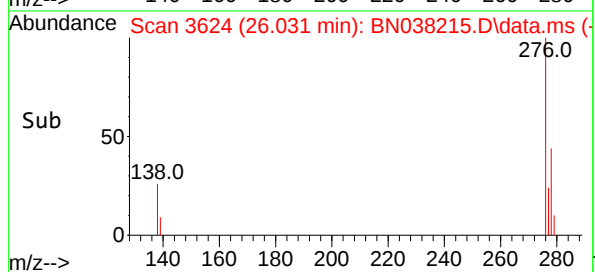
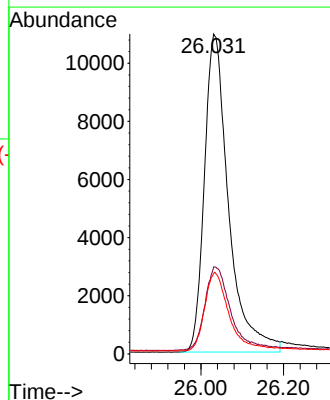
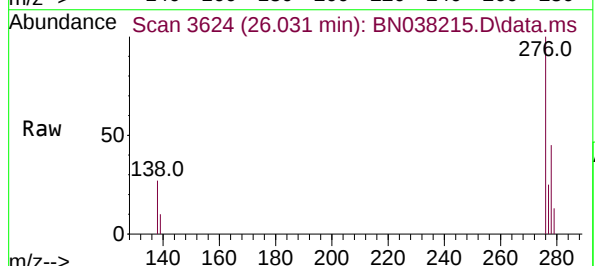
Tgt Ion:276 Resp: 44577

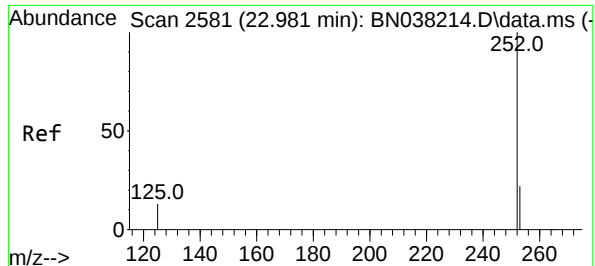
Ion Ratio Lower Upper

276 100

138 27.5 21.4 32.2

277 24.6 19.1 28.7





#37

Benzo(b)fluoranthene

Concen: 0.773 ng

RT: 22.981 min Scan# 2581

Delta R.T. 0.000 min

Lab File: BN038215.D

Acq: 26 Nov 2025 22:25

Instrument :

BNA\_N

ClientSampleId :

SSTDICC0.8

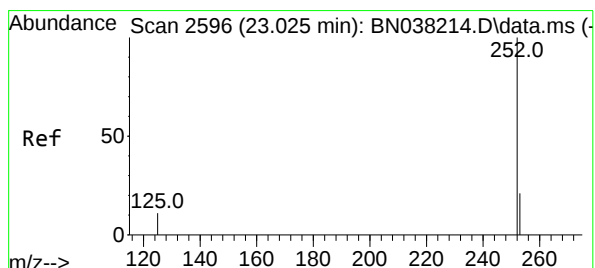
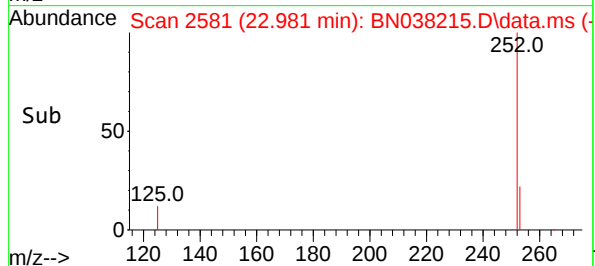
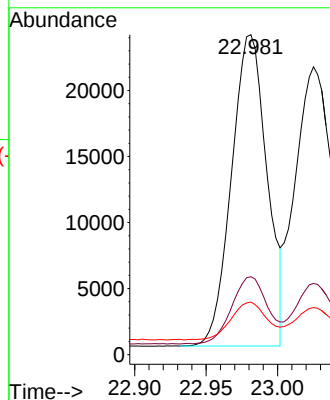
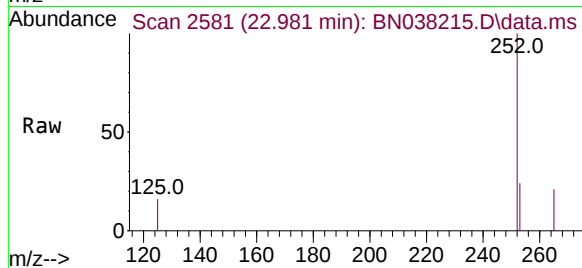
Tgt Ion:252 Resp: 40731

Ion Ratio Lower Upper

252 100

253 24.3 22.2 33.4

125 16.4 18.0 27.0#



#38

Benzo(k)fluoranthene

Concen: 0.777 ng

RT: 23.025 min Scan# 2596

Delta R.T. 0.000 min

Lab File: BN038215.D

Acq: 26 Nov 2025 22:25

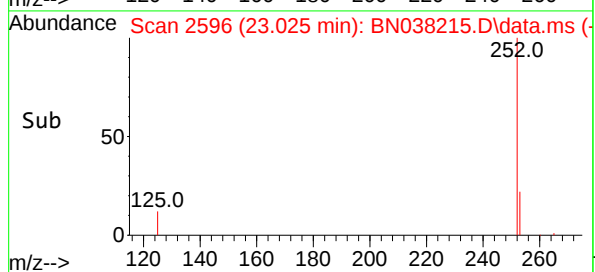
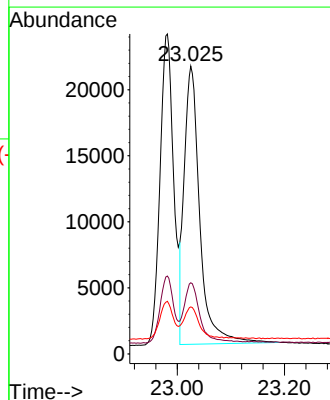
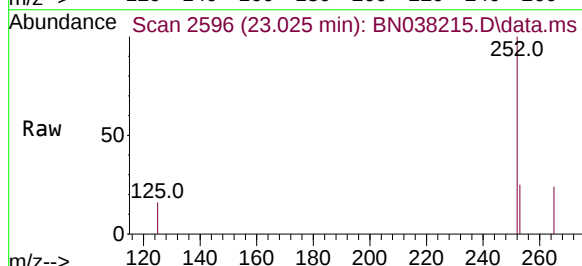
Tgt Ion:252 Resp: 42564

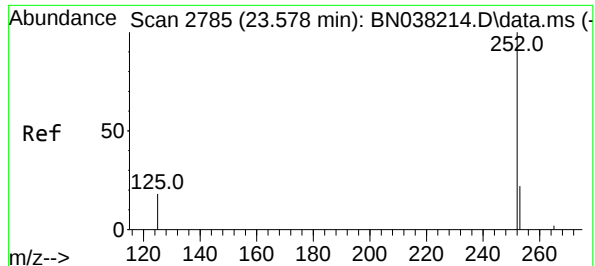
Ion Ratio Lower Upper

252 100

253 24.7 22.4 33.6

125 16.3 17.5 26.3#





#39

Benzo(a)pyrene

Concen: 0.765 ng

RT: 23.578 min Scan# 21

Delta R.T. 0.000 min

Lab File: BN038215.D

Acq: 26 Nov 2025 22:25

Instrument :

BNA\_N

ClientSampleId :

SSTDIC0.8

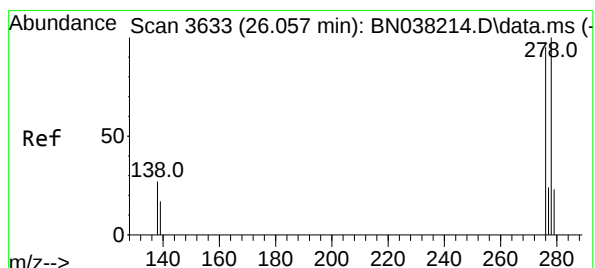
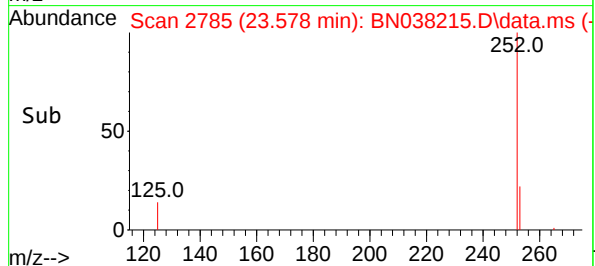
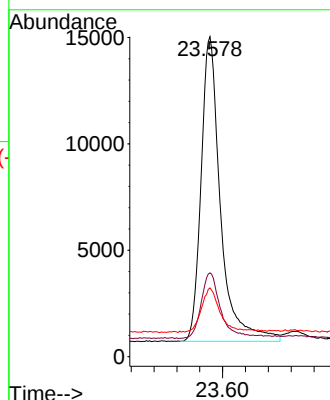
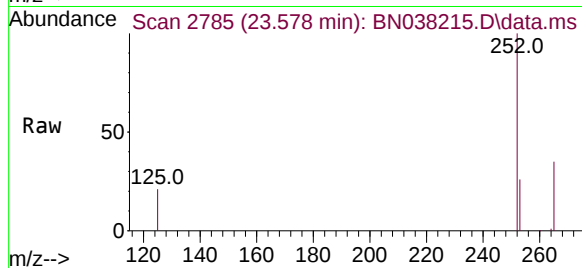
Tgt Ion:252 Resp: 33796

Ion Ratio Lower Upper

252 100

253 26.2 25.3 37.9

125 21.5 25.2 37.8#



#40

Dibenzo(a,h)anthracene

Concen: 0.770 ng

RT: 26.054 min Scan# 3632

Delta R.T. -0.003 min

Lab File: BN038215.D

Acq: 26 Nov 2025 22:25

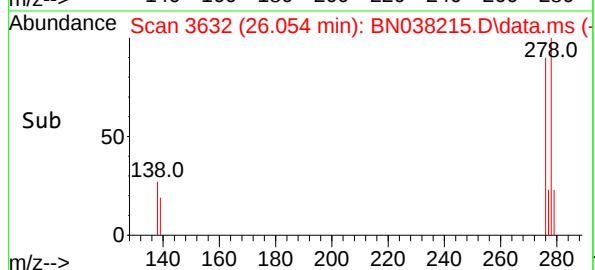
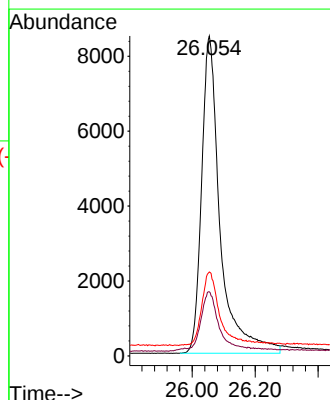
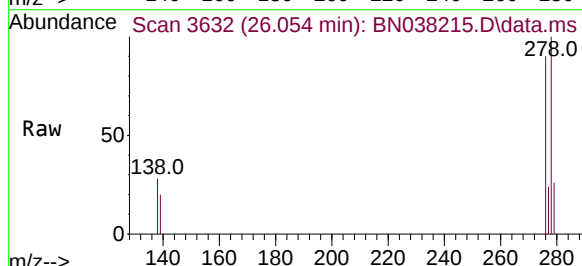
Tgt Ion:278 Resp: 34639

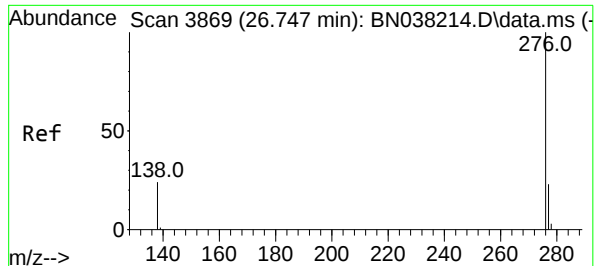
Ion Ratio Lower Upper

278 100

139 20.0 17.6 26.4

279 26.2 24.2 36.4





#41

Benzo(g,h,i)perylene

Concen: 0.777 ng

RT: 26.744 min Scan# 38

Delta R.T. -0.003 min

Lab File: BN038215.D

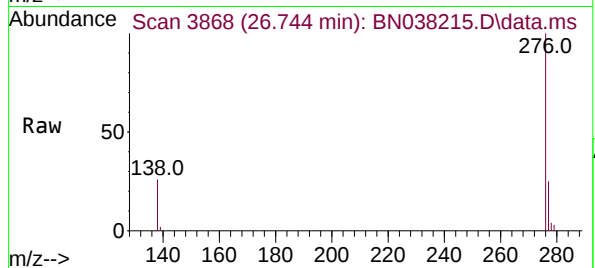
Acq: 26 Nov 2025 22:25

Instrument :

BNA\_N

ClientSampleId :

SSTDICC0.8



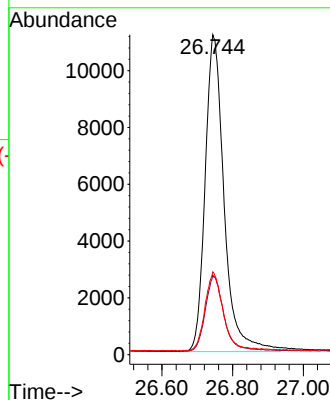
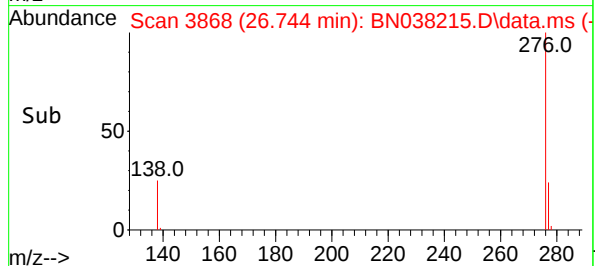
Tgt Ion:276 Resp: 41508

Ion Ratio Lower Upper

276 100

277 24.8 20.2 30.2

138 25.9 20.8 31.2

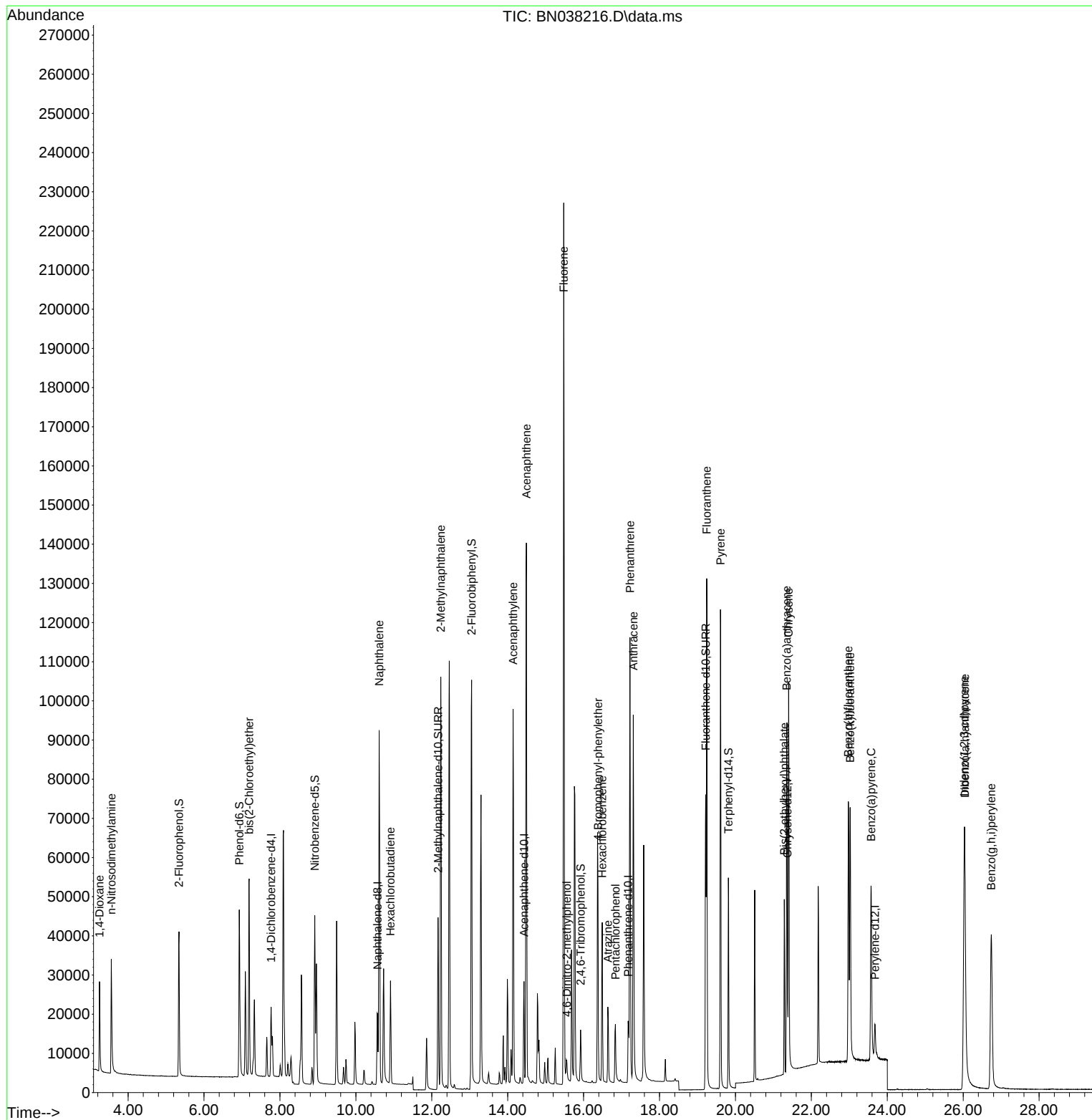


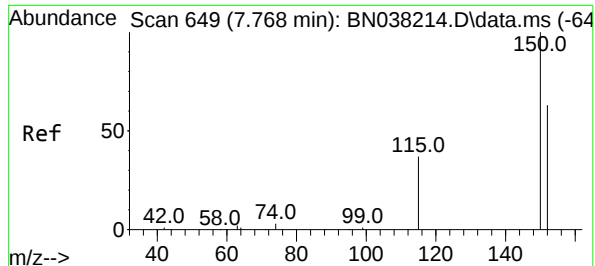


Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN112725\  
Data File : BN038216.D  
Acq On : 26 Nov 2025 23:01  
Operator : RC/JU  
Sample : SSTDICC1.6  
Misc :  
ALS Vial : 16 Sample Multiplier: 1

Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC1.6

Quant Time: Nov 28 20:55:28 2025  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\8270-SIM-BN112725.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Fri Nov 28 20:22:09 2025  
Response via : Initial Calibration

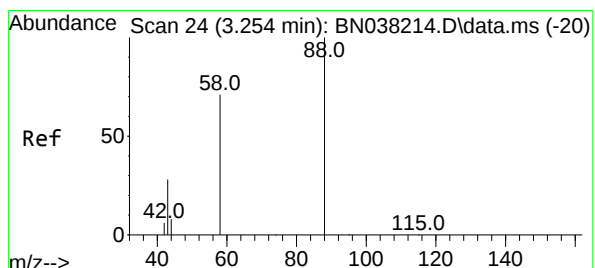
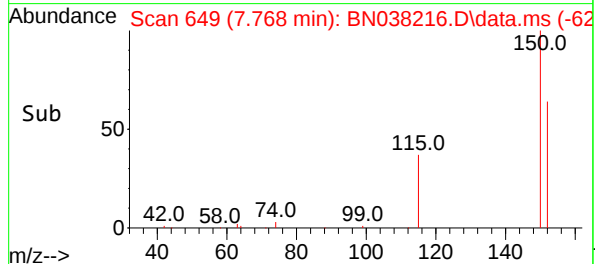
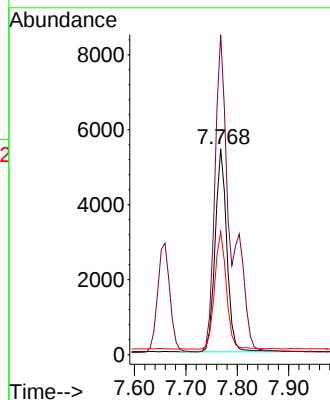
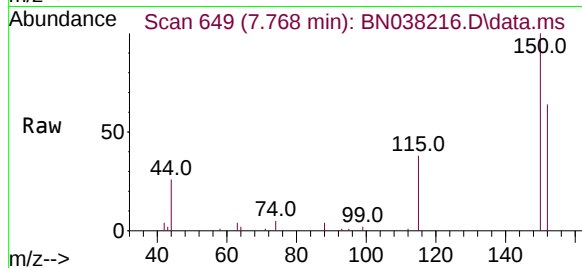




#1  
1,4-Dichlorobenzene-d4  
Concen: 0.400 ng  
RT: 7.768 min Scan# 64  
Delta R.T. -0.000 min  
Lab File: BN038216.D  
Acq: 26 Nov 2025 23:01

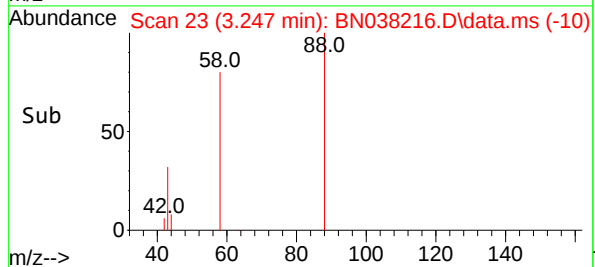
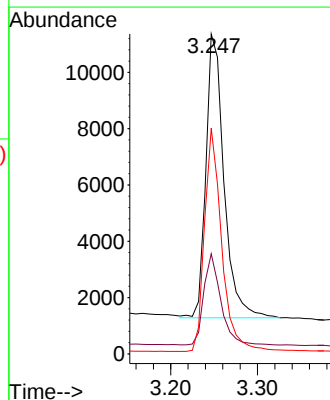
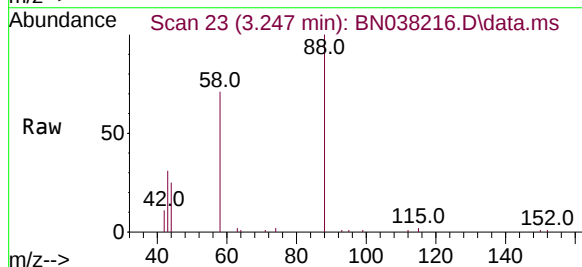
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC1.6

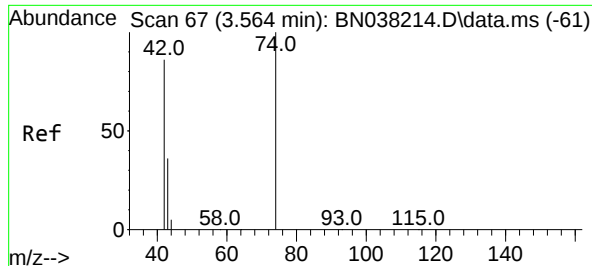
Tgt Ion:152 Resp: 8591  
Ion Ratio Lower Upper  
152 100  
150 155.4 125.3 187.9  
115 59.7 49.0 73.4



#2  
1,4-Dioxane  
Concen: 1.606 ng  
RT: 3.247 min Scan# 23  
Delta R.T. -0.007 min  
Lab File: BN038216.D  
Acq: 26 Nov 2025 23:01

Tgt Ion: 88 Resp: 14538  
Ion Ratio Lower Upper  
88 100  
43 30.3 24.8 37.2  
58 74.7 61.1 91.7

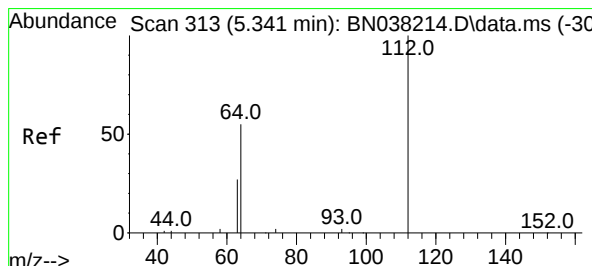
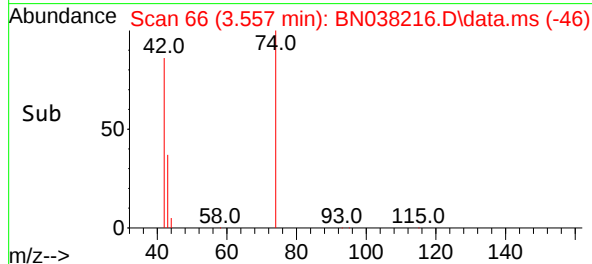
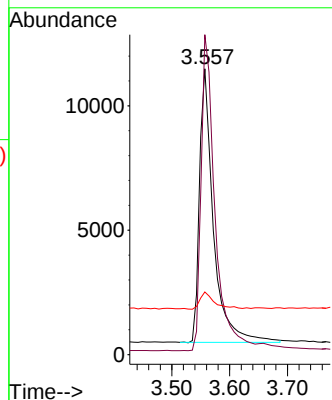
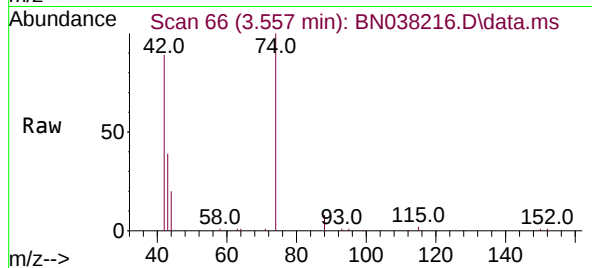




#3  
n-Nitrosodimethylamine  
Concen: 1.652 ng  
RT: 3.557 min Scan# 60  
Delta R.T. -0.007 min  
Lab File: BN038216.D  
Acq: 26 Nov 2025 23:01

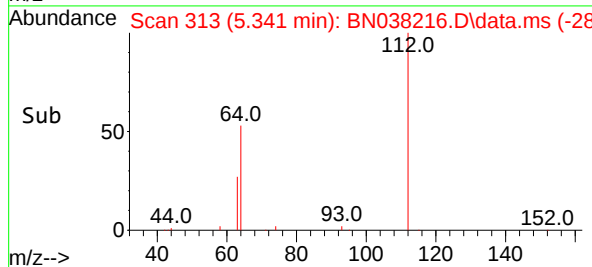
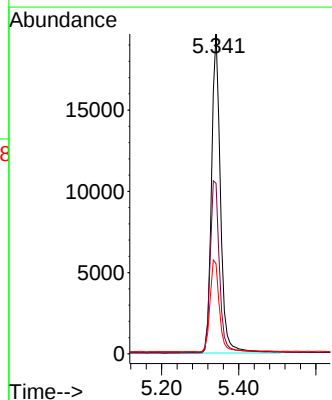
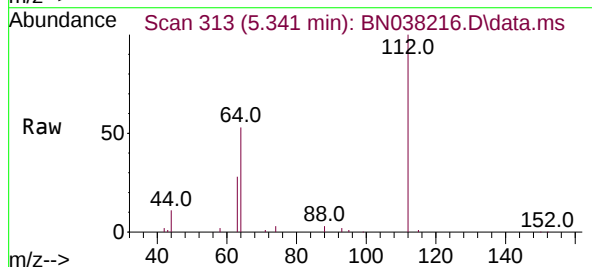
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC1.6

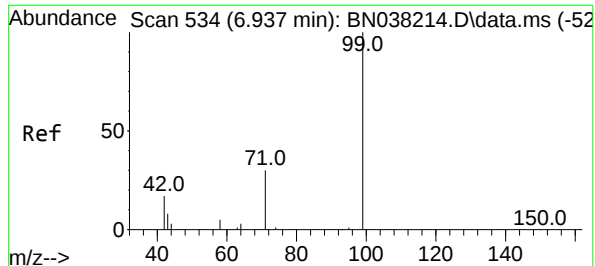
Tgt Ion: 42 Resp: 18433  
Ion Ratio Lower Upper  
42 100  
74 118.4 96.2 144.2  
44 6.4 8.0 12.0#



#4  
2-Fluorophenol  
Concen: 1.583 ng  
RT: 5.341 min Scan# 313  
Delta R.T. 0.000 min  
Lab File: BN038216.D  
Acq: 26 Nov 2025 23:01

Tgt Ion: 112 Resp: 31794  
Ion Ratio Lower Upper  
112 100  
64 56.7 45.0 67.4  
63 30.0 23.2 34.8

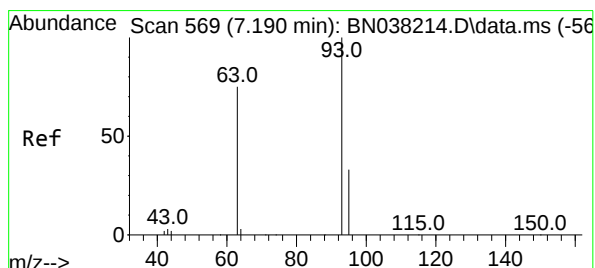
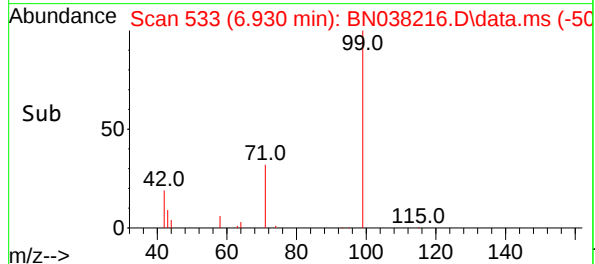
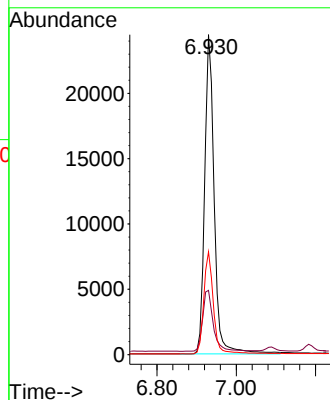
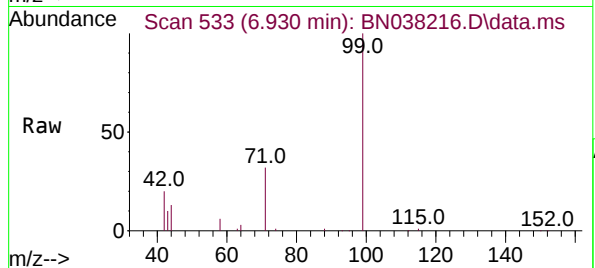




#5  
Phenol-d6  
Concen: 1.626 ng  
RT: 6.930 min Scan# 534  
Delta R.T. -0.007 min  
Lab File: BN038216.D  
Acq: 26 Nov 2025 23:01

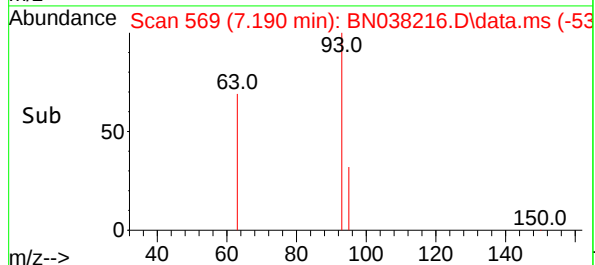
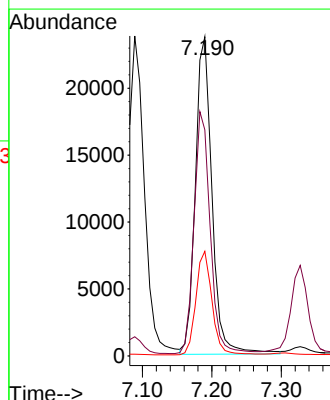
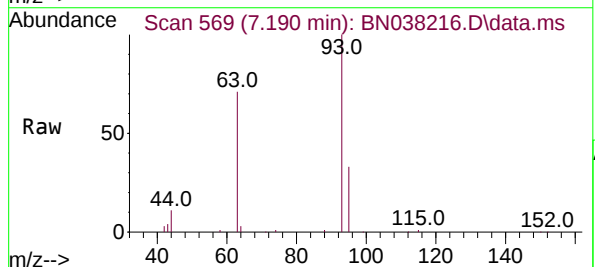
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC1.6

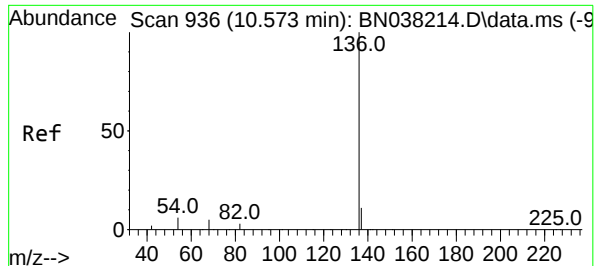
Tgt Ion: 99 Resp: 40785  
Ion Ratio Lower Upper  
99 100  
42 21.1 17.0 25.6  
71 32.3 25.4 38.2



#6  
bis(2-Chloroethyl)ether  
Concen: 1.648 ng  
RT: 7.190 min Scan# 569  
Delta R.T. 0.000 min  
Lab File: BN038216.D  
Acq: 26 Nov 2025 23:01

Tgt Ion: 93 Resp: 39573  
Ion Ratio Lower Upper  
93 100  
63 74.3 58.1 87.1  
95 31.7 25.1 37.7

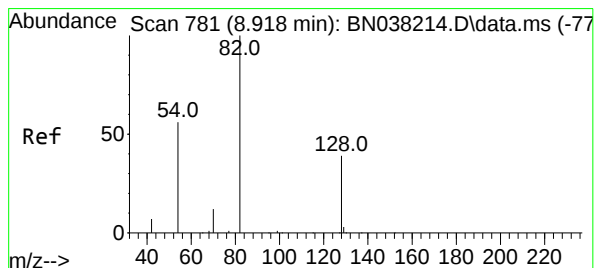
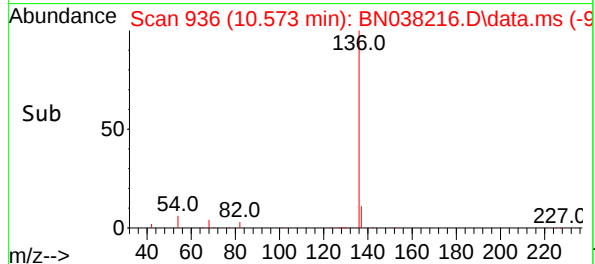
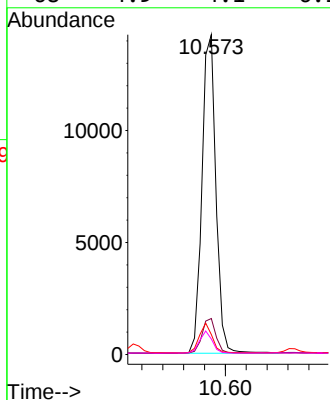
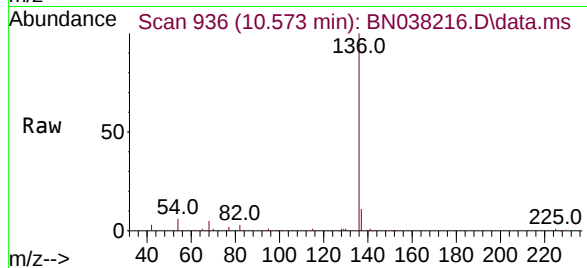




#7  
Naphthalene-d8  
Concen: 0.400 ng  
RT: 10.573 min Scan# 936  
Delta R.T. 0.000 min  
Lab File: BN038216.D  
Acq: 26 Nov 2025 23:01

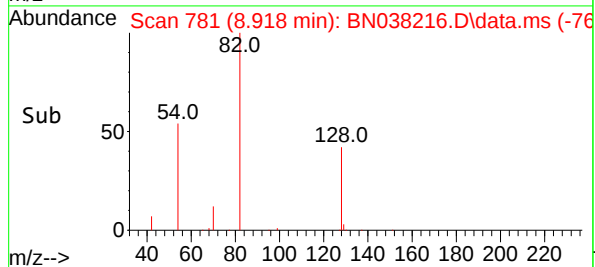
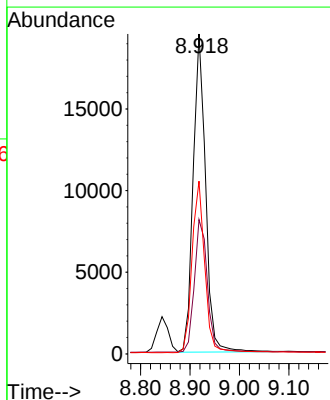
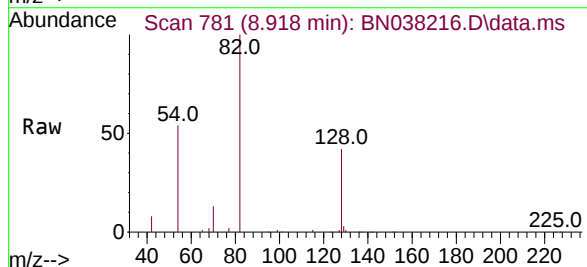
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC1.6

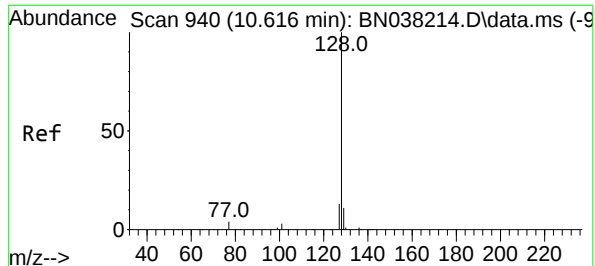
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 136   | Resp: | 26479 |
| Ion      | Ratio | Lower | Upper |
| 136      | 100   |       |       |
| 137      | 11.3  | 8.9   | 13.3  |
| 54       | 6.3   | 5.4   | 8.0   |
| 68       | 4.9   | 4.1   | 6.1   |



#8  
Nitrobenzene-d5  
Concen: 1.606 ng  
RT: 8.918 min Scan# 781  
Delta R.T. 0.000 min  
Lab File: BN038216.D  
Acq: 26 Nov 2025 23:01

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 82    | Resp: | 34007 |
| Ion      | Ratio | Lower | Upper |
| 82       | 100   |       |       |
| 128      | 42.0  | 32.6  | 48.8  |
| 54       | 54.0  | 45.4  | 68.0  |

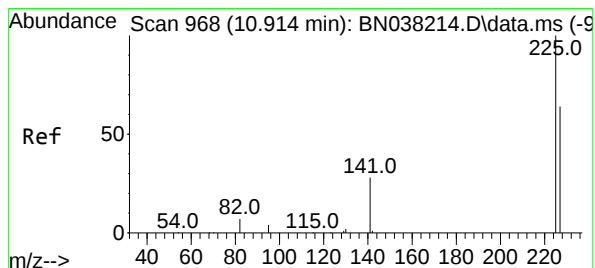
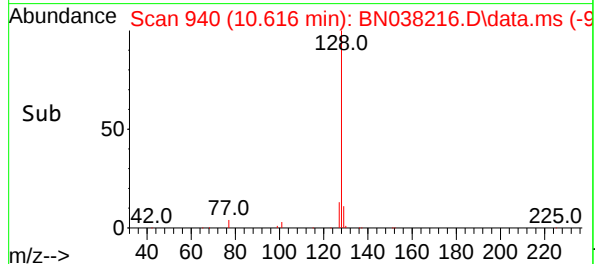
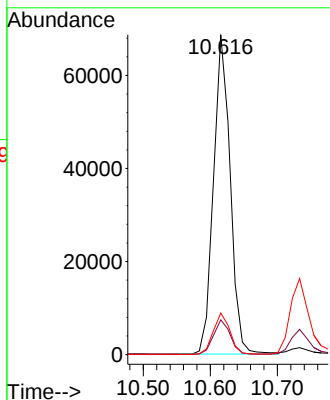
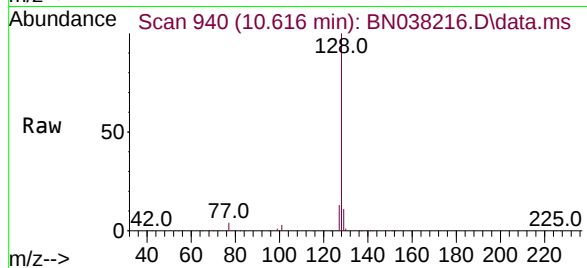




#9  
Naphthalene  
Concen: 1.611 ng  
RT: 10.616 min Scan# 940  
Delta R.T. 0.000 min  
Lab File: BN038216.D  
Acq: 26 Nov 2025 23:01

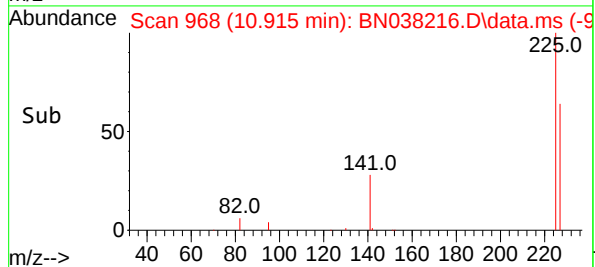
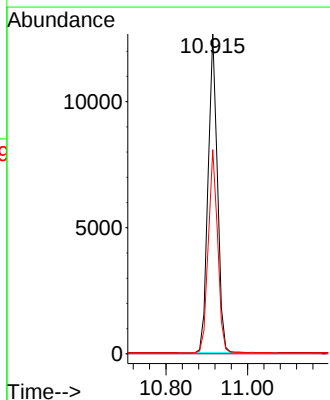
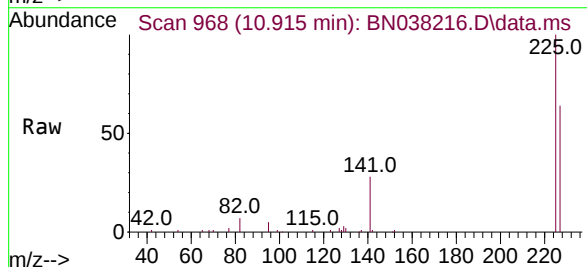
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC1.6

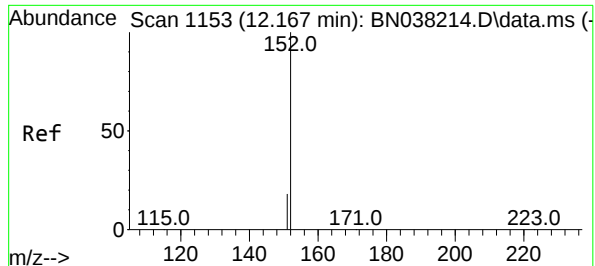
Tgt Ion:128 Resp: 118421  
Ion Ratio Lower Upper  
128 100  
129 10.9 9.1 13.7  
127 13.0 10.6 16.0



#10  
Hexachlorobutadiene  
Concen: 1.593 ng  
RT: 10.915 min Scan# 968  
Delta R.T. 0.000 min  
Lab File: BN038216.D  
Acq: 26 Nov 2025 23:01

Tgt Ion:225 Resp: 19920  
Ion Ratio Lower Upper  
225 100  
223 0.0 0.0 0.0  
227 63.8 50.5 75.7

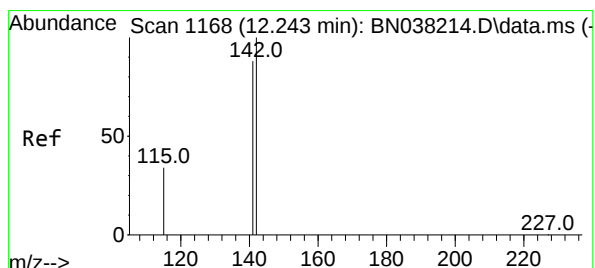
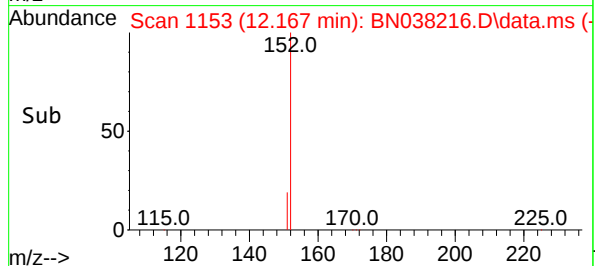
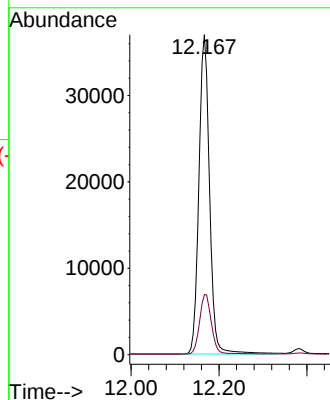
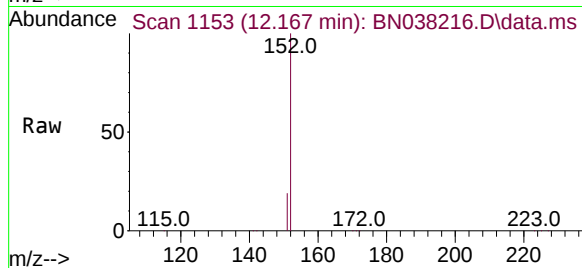




#11  
2-Methylnaphthalene-d10  
Concen: 1.647 ng  
RT: 12.167 min Scan# 1153  
Delta R.T. 0.000 min  
Lab File: BN038216.D  
Acq: 26 Nov 2025 23:01

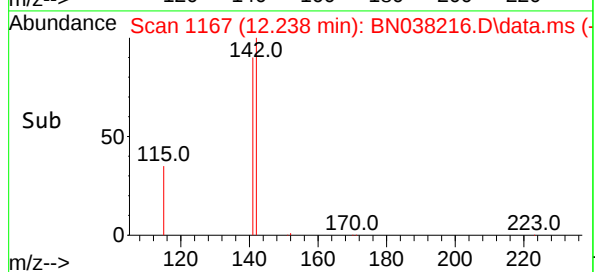
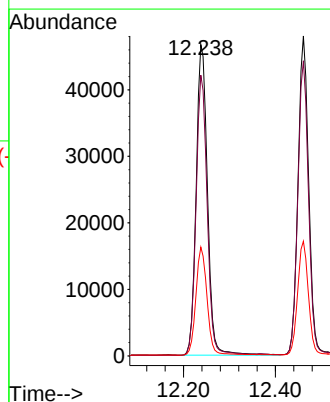
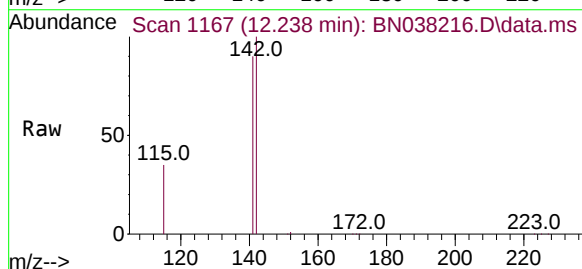
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC1.6

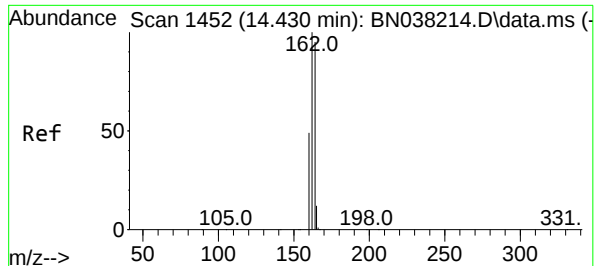
Tgt Ion:152 Resp: 61892  
Ion Ratio Lower Upper  
152 100  
151 20.9 16.7 25.1



#12  
2-Methylnaphthalene  
Concen: 1.651 ng  
RT: 12.238 min Scan# 1167  
Delta R.T. -0.005 min  
Lab File: BN038216.D  
Acq: 26 Nov 2025 23:01

Tgt Ion:142 Resp: 79894  
Ion Ratio Lower Upper  
142 100  
141 90.2 70.9 106.3  
115 35.0 27.7 41.5

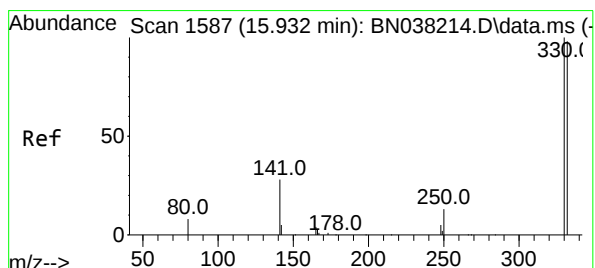
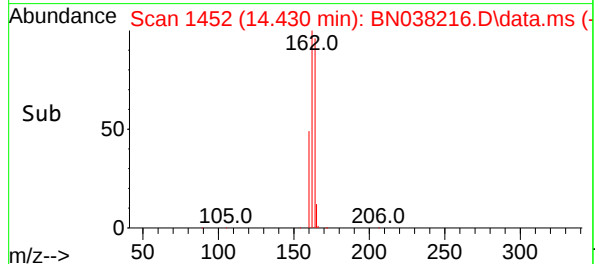
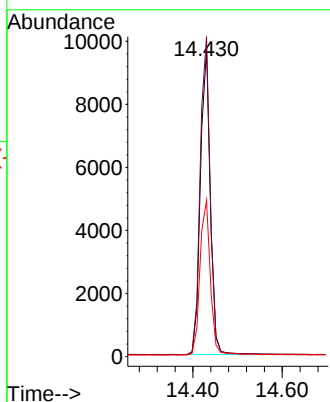
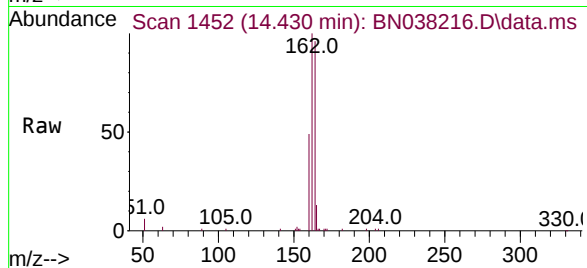




#13  
Acenaphthene-d10  
Concen: 0.400 ng  
RT: 14.430 min Scan# 1452  
Delta R.T. 0.000 min  
Lab File: BN038216.D  
Acq: 26 Nov 2025 23:01

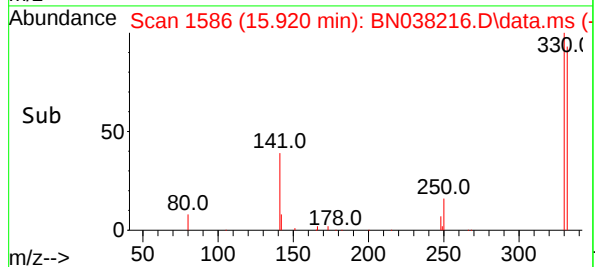
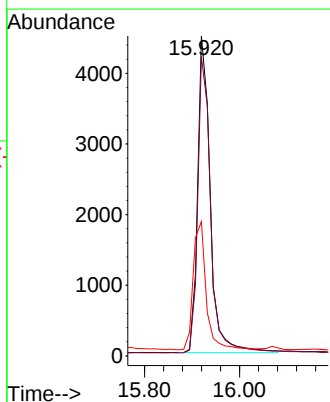
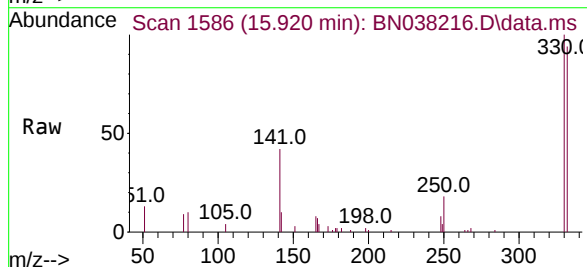
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC1.6

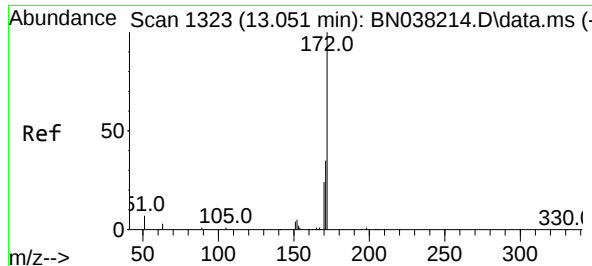
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 164     | 100   |       |       |
| 162     | 104.0 | 83.8  | 125.8 |
| 160     | 50.8  | 41.6  | 62.4  |



#14  
2,4,6-Tribromophenol  
Concen: 1.767 ng  
RT: 15.920 min Scan# 1586  
Delta R.T. -0.012 min  
Lab File: BN038216.D  
Acq: 26 Nov 2025 23:01

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 330     | 100   |       |       |
| 332     | 95.1  | 77.8  | 116.6 |
| 141     | 41.6  | 33.0  | 49.4  |





#15

2-Fluorobiphenyl

Concen: 1.634 ng

RT: 13.051 min Scan# 1323

Delta R.T. 0.000 min

Lab File: BN038216.D

Acq: 26 Nov 2025 23:01

Instrument :

BNA\_N

ClientSampleId :

SSTDICC1.6

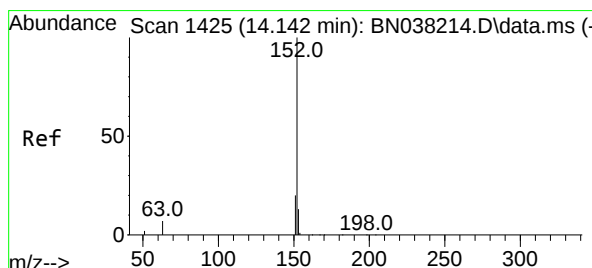
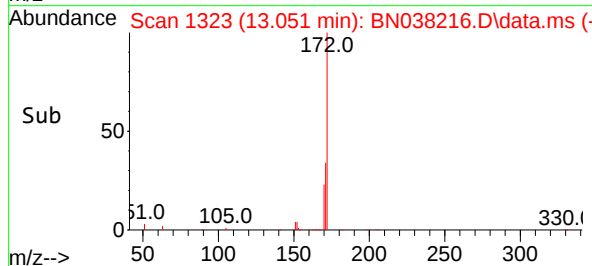
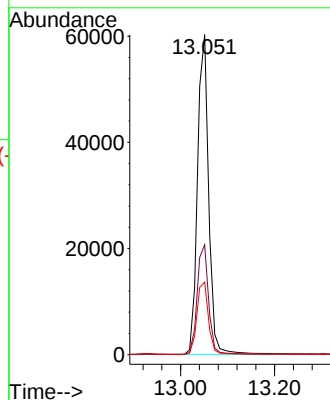
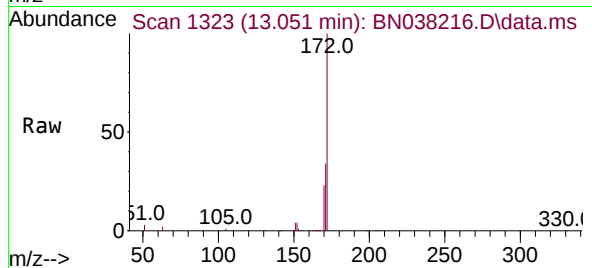
Tgt Ion:172 Resp: 94112

Ion Ratio Lower Upper

172 100

171 34.3 28.1 42.1

170 22.7 19.1 28.7



#16

Acenaphthylene

Concen: 1.637 ng

RT: 14.142 min Scan# 1425

Delta R.T. 0.000 min

Lab File: BN038216.D

Acq: 26 Nov 2025 23:01

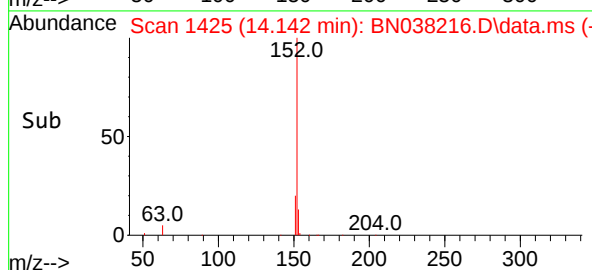
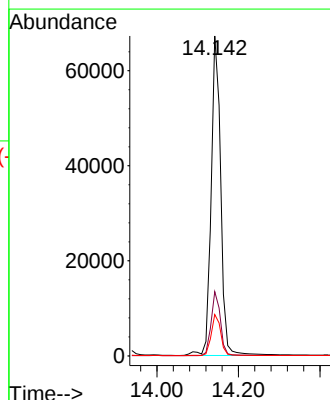
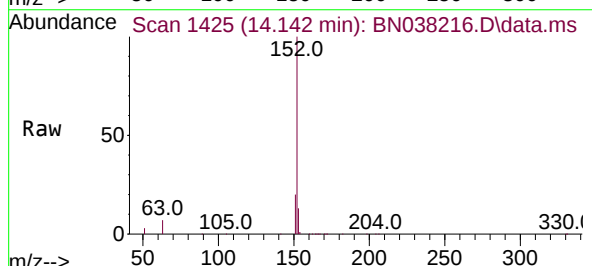
Tgt Ion:152 Resp: 109170

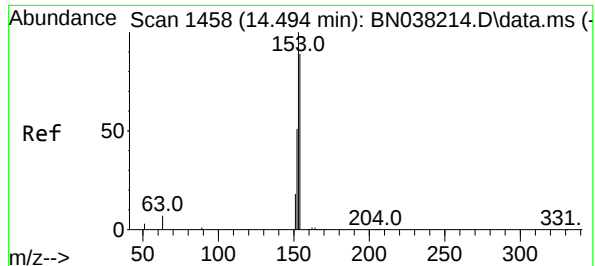
Ion Ratio Lower Upper

152 100

151 19.4 15.6 23.4

153 12.9 10.6 15.8

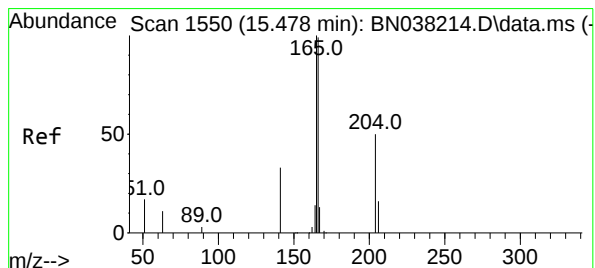
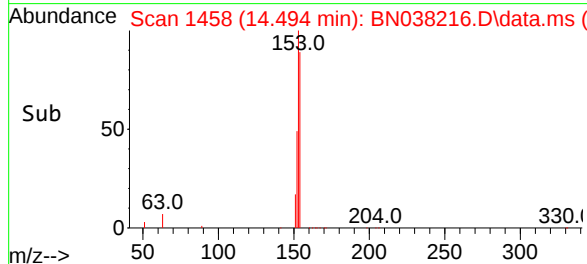
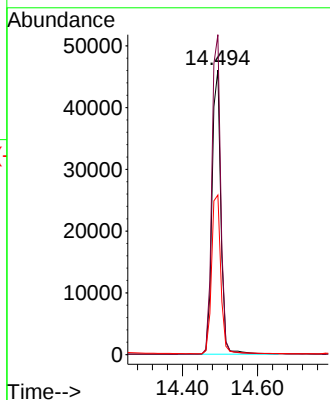
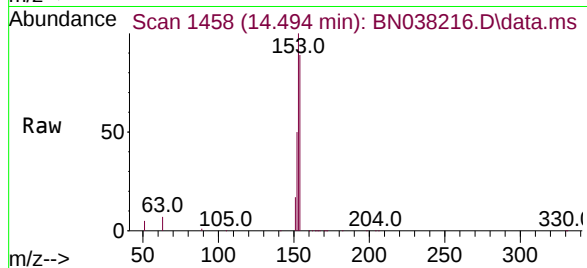




#17  
Acenaphthene  
Concen: 1.621 ng  
RT: 14.494 min Scan# 1458  
Delta R.T. 0.000 min  
Lab File: BN038216.D  
Acq: 26 Nov 2025 23:01

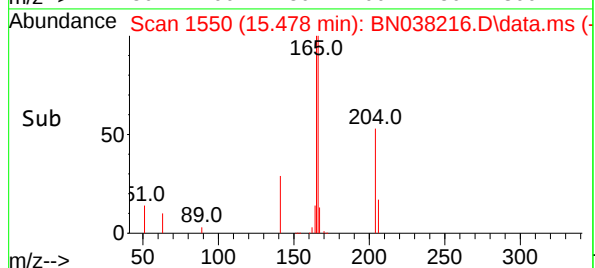
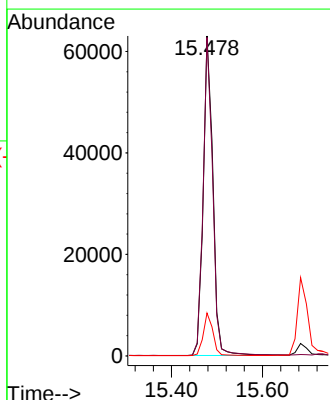
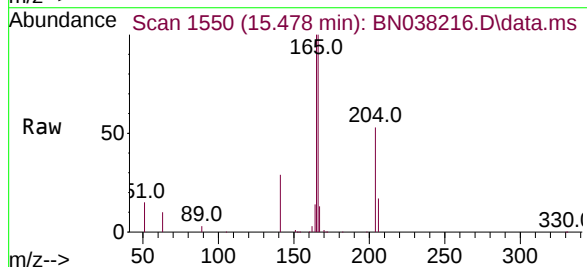
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC1.6

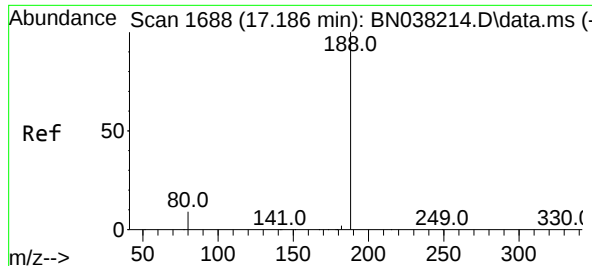
Tgt Ion:154 Resp: 75326  
Ion Ratio Lower Upper  
154 100  
153 113.1 91.1 136.7  
152 58.4 48.2 72.2



#18  
Fluorene  
Concen: 1.665 ng  
RT: 15.478 min Scan# 1550  
Delta R.T. 0.000 min  
Lab File: BN038216.D  
Acq: 26 Nov 2025 23:01

Tgt Ion:166 Resp: 100208  
Ion Ratio Lower Upper  
166 100  
165 99.0 78.7 118.1  
167 13.2 10.9 16.3





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 17.173 min Scan# 1687

Delta R.T. -0.012 min

Lab File: BN038216.D

Acq: 26 Nov 2025 23:01

Instrument :

BNA\_N

ClientSampleId :

SSTDICC1.6

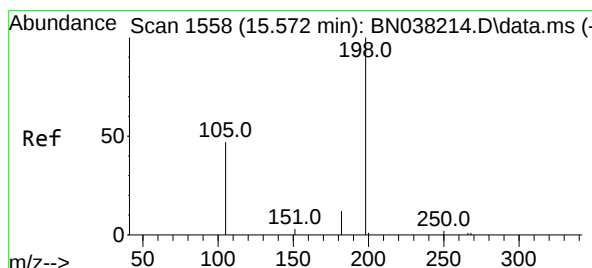
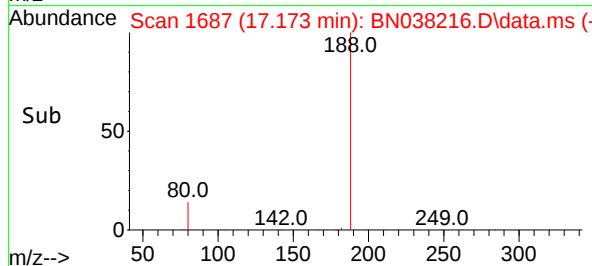
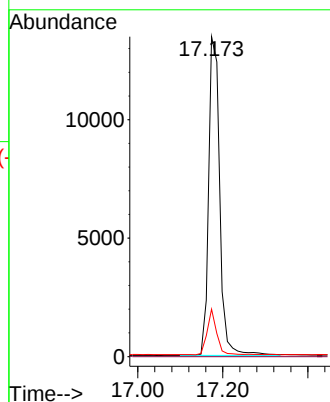
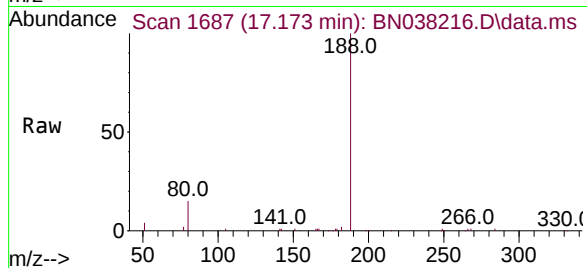
Tgt Ion:188 Resp: 24353

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 14.8 7.7 11.5#



#20

4,6-Dinitro-2-methylphenol

Concen: 1.621 ng

RT: 15.560 min Scan# 1557

Delta R.T. -0.012 min

Lab File: BN038216.D

Acq: 26 Nov 2025 23:01

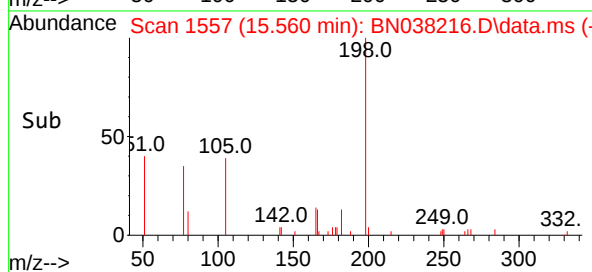
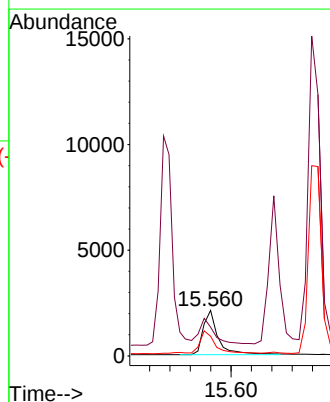
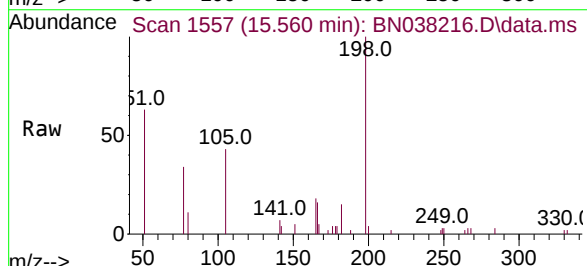
Tgt Ion:198 Resp: 4296

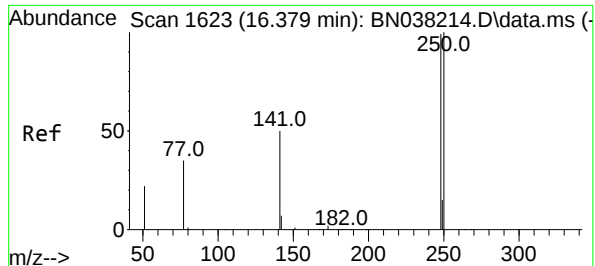
Ion Ratio Lower Upper

198 100

51 63.2 205.1 307.7#

105 42.9 61.6 92.4#

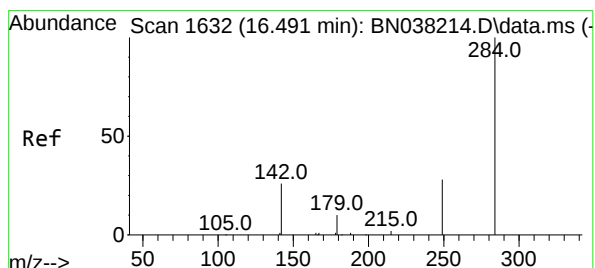
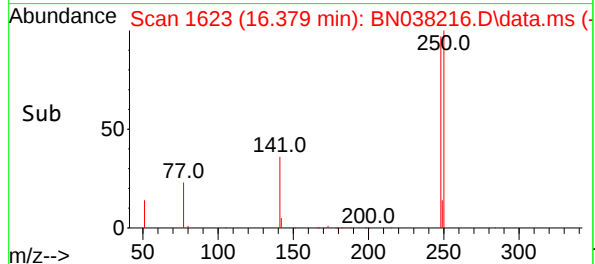
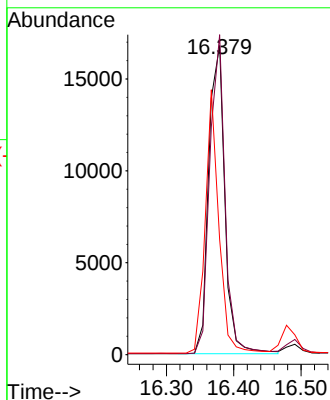
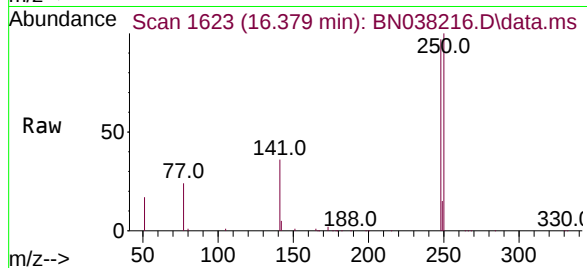




#21  
4-Bromophenyl-phenylether  
Concen: 1.658 ng  
RT: 16.379 min Scan# 1623  
Delta R.T. 0.000 min  
Lab File: BN038216.D  
Acq: 26 Nov 2025 23:01

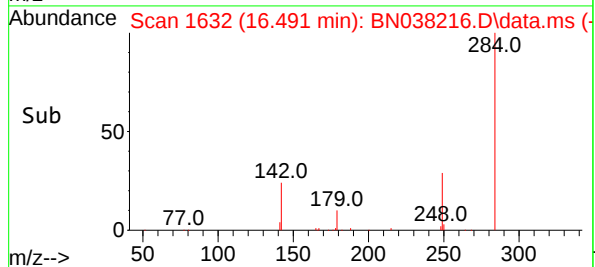
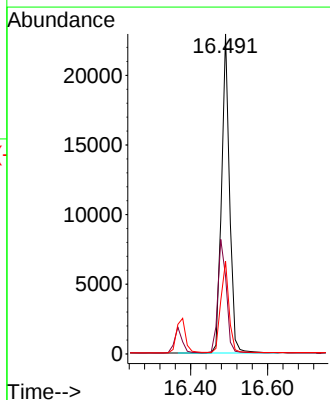
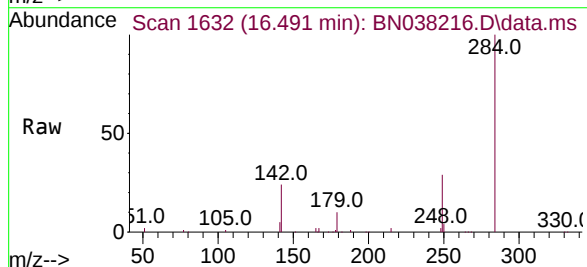
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC1.6

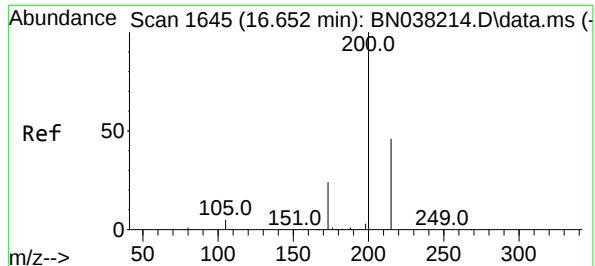
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 248     | 100   |       |       |
| 250     | 103.6 | 80.8  | 121.2 |
| 141     | 37.3  | 41.0  | 61.6  |



#22  
Hexachlorobenzene  
Concen: 1.584 ng  
RT: 16.491 min Scan# 1632  
Delta R.T. 0.000 min  
Lab File: BN038216.D  
Acq: 26 Nov 2025 23:01

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 284     | 100   |       |       |
| 142     | 37.7  | 30.5  | 45.7  |
| 249     | 29.6  | 23.8  | 35.8  |





#23

Atrazine

Concen: 1.635 ng

RT: 16.640 min Scan# 1644

Delta R.T. -0.012 min

Lab File: BN038216.D

Acq: 26 Nov 2025 23:01

Instrument :

BNA\_N

ClientSampleId :

SSTDICC1.6

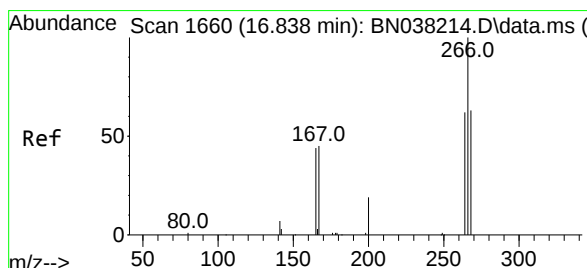
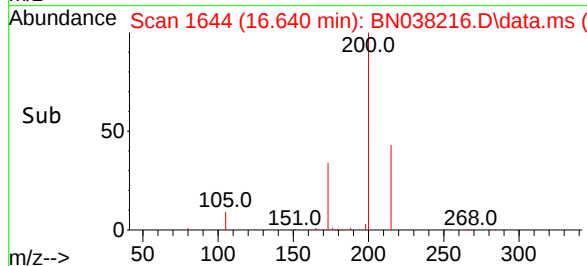
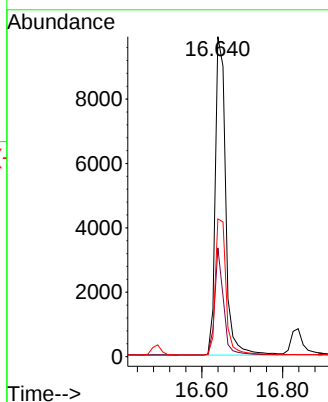
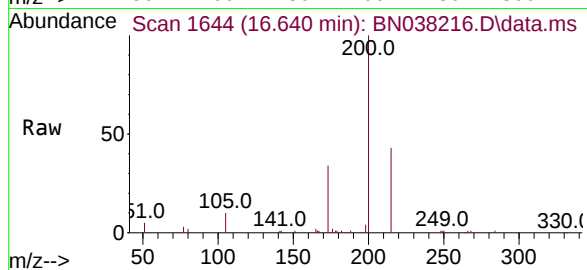
Tgt Ion:200 Resp: 17617

Ion Ratio Lower Upper

200 100

173 34.0 21.0 31.6#

215 43.0 37.8 56.8



#24

Pentachlorophenol

Concen: 1.650 ng

RT: 16.838 min Scan# 1660

Delta R.T. 0.000 min

Lab File: BN038216.D

Acq: 26 Nov 2025 23:01

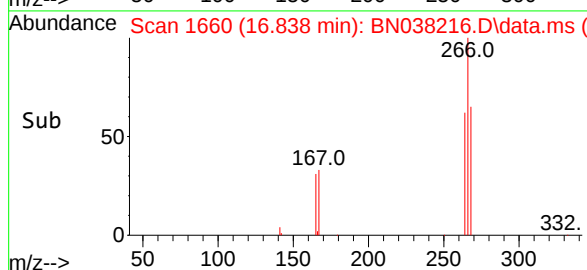
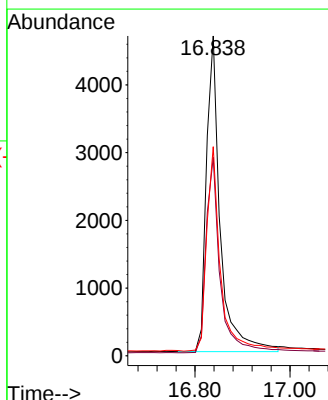
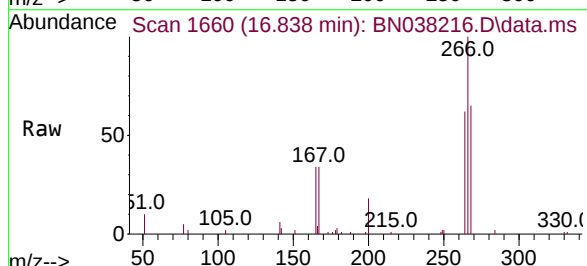
Tgt Ion:266 Resp: 9380

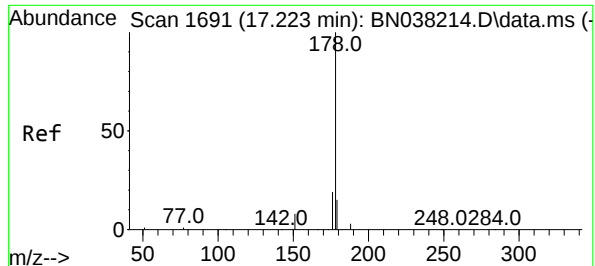
Ion Ratio Lower Upper

266 100

264 62.1 48.9 73.3

268 64.2 50.2 75.2





#25

Phenanthrene

Concen: 1.619 ng

RT: 17.223 min Scan# 1691

Delta R.T. 0.000 min

Lab File: BN038216.D

Acq: 26 Nov 2025 23:01

Instrument :

BNA\_N

ClientSampleId :

SSTDICC1.6

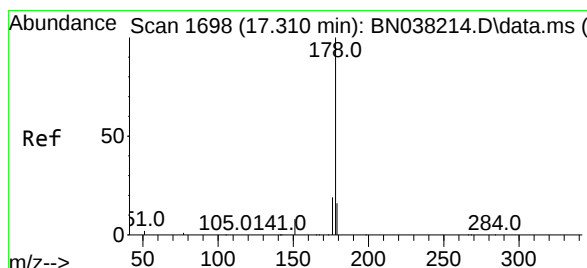
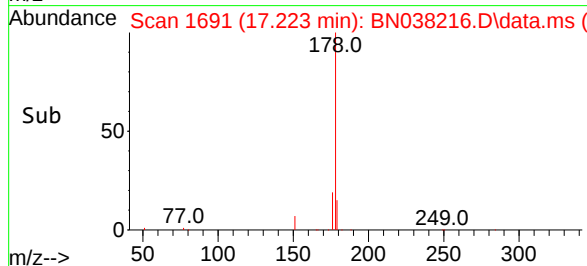
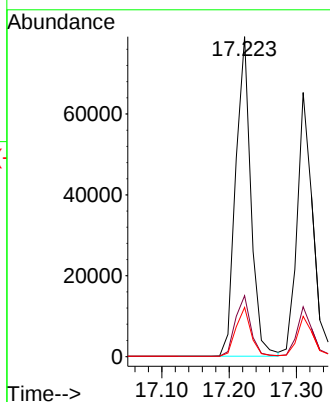
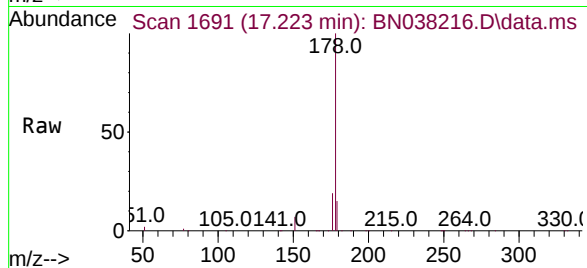
Tgt Ion:178 Resp: 123735

Ion Ratio Lower Upper

178 100

176 19.2 15.3 22.9

179 15.2 12.0 18.0



#26

Anthracene

Concen: 1.642 ng

RT: 17.310 min Scan# 1698

Delta R.T. 0.000 min

Lab File: BN038216.D

Acq: 26 Nov 2025 23:01

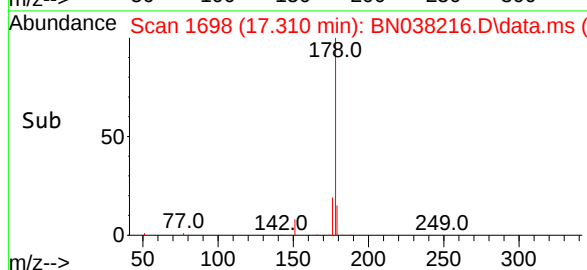
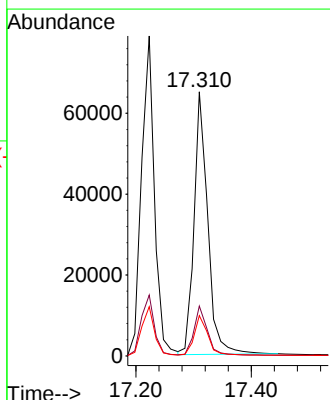
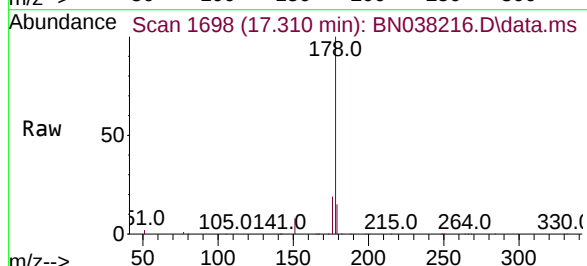
Tgt Ion:178 Resp: 107108

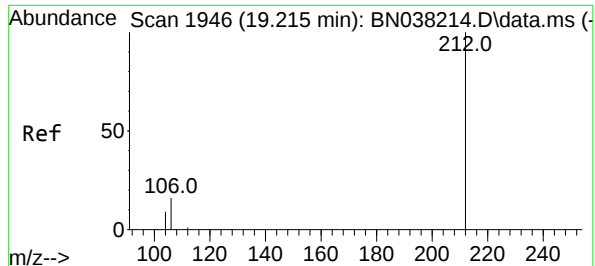
Ion Ratio Lower Upper

178 100

176 18.5 14.7 22.1

179 15.2 12.3 18.5





#27

Fluoranthene-d10

Concen: 1.593 ng

RT: 19.215 min Scan# 1946

Delta R.T. 0.000 min

Lab File: BN038216.D

Acq: 26 Nov 2025 23:01

Instrument :

BNA\_N

ClientSampleId :

SSTDICC1.6

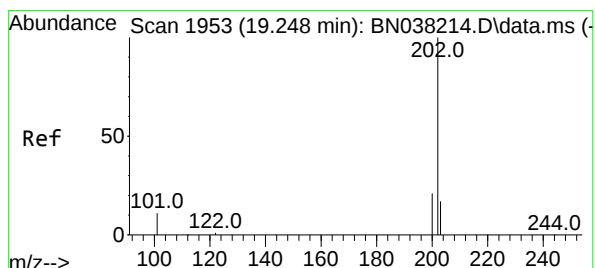
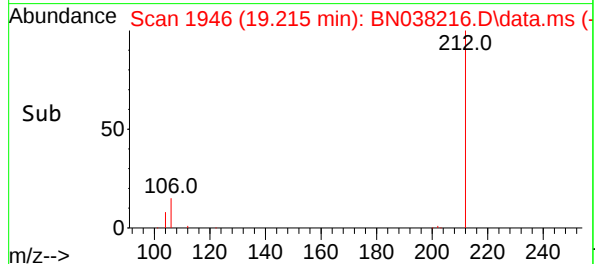
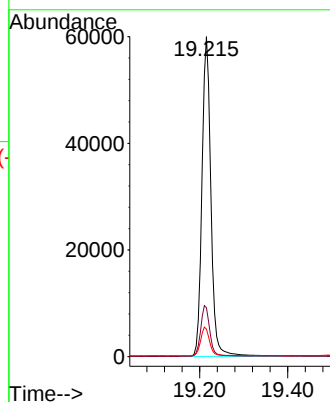
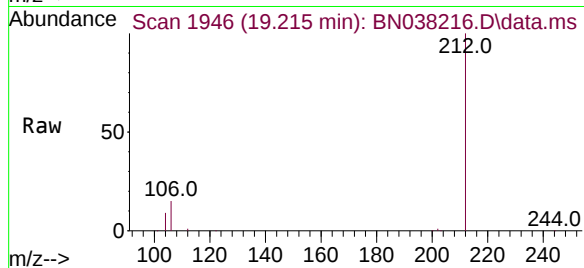
Tgt Ion:212 Resp: 84152

Ion Ratio Lower Upper

212 100

106 16.0 12.7 19.1

104 9.0 7.3 10.9



#28

Fluoranthene

Concen: 1.626 ng

RT: 19.243 min Scan# 1952

Delta R.T. -0.005 min

Lab File: BN038216.D

Acq: 26 Nov 2025 23:01

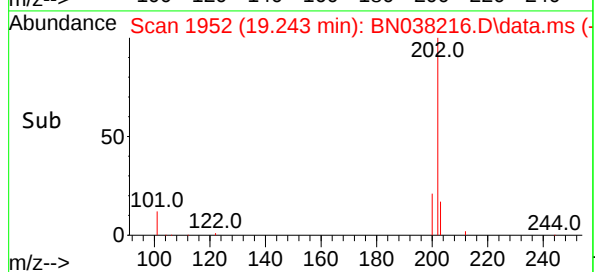
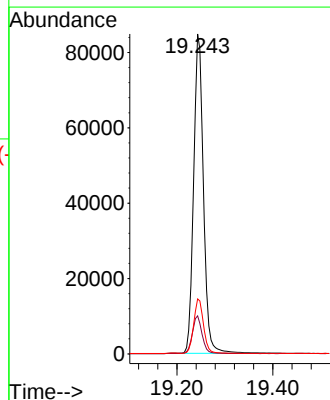
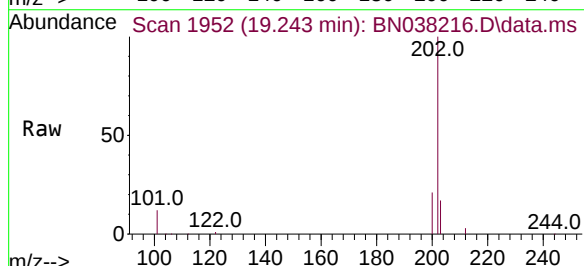
Tgt Ion:202 Resp: 119828

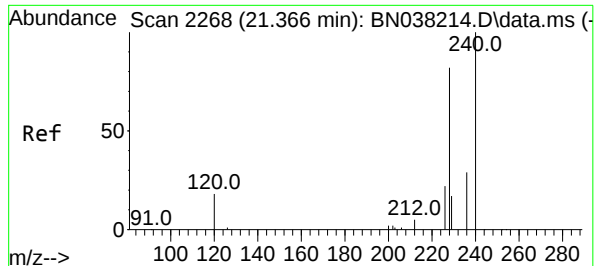
Ion Ratio Lower Upper

202 100

101 11.9 9.8 14.6

203 17.0 13.6 20.4





#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.366 min Scan# 21

Delta R.T. 0.000 min

Lab File: BN038216.D

Acq: 26 Nov 2025 23:01

Instrument :

BNA\_N

ClientSampleId :

SSTDICC1.6

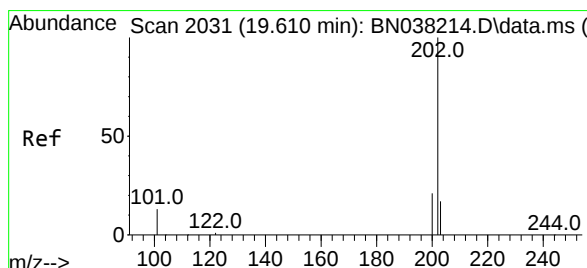
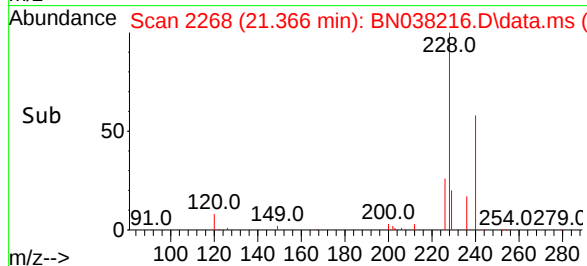
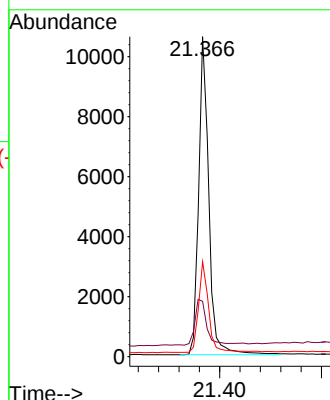
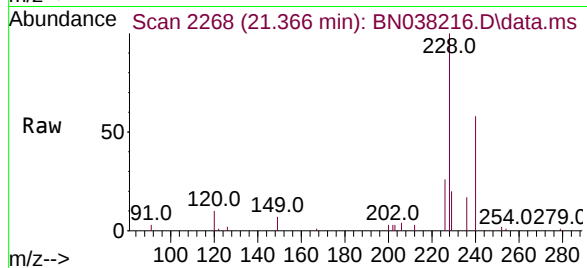
Tgt Ion:240 Resp: 14651

Ion Ratio Lower Upper

240 100

120 17.3 18.1 27.1#

236 29.7 24.2 36.4



#30

Pyrene

Concen: 1.580 ng

RT: 19.606 min Scan# 2030

Delta R.T. -0.005 min

Lab File: BN038216.D

Acq: 26 Nov 2025 23:01

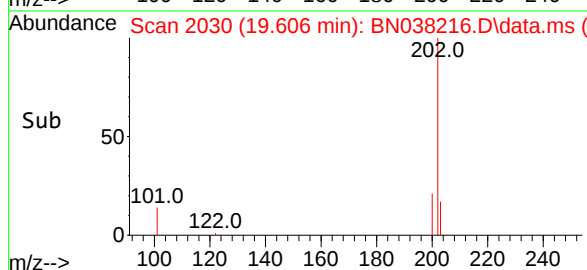
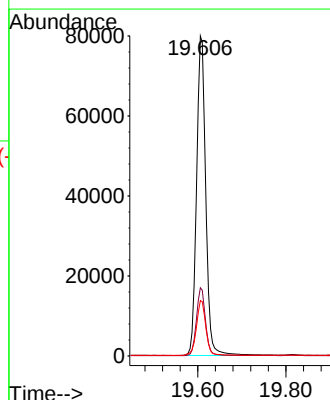
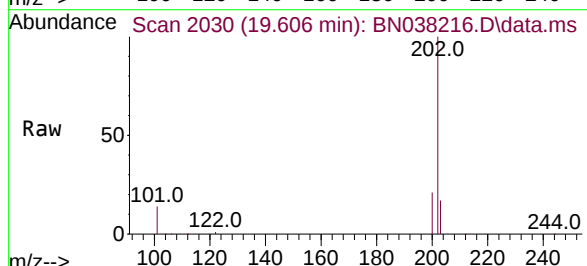
Tgt Ion:202 Resp: 115630

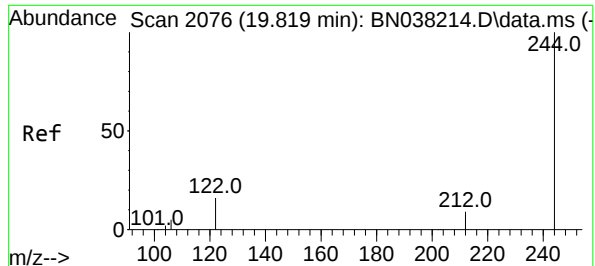
Ion Ratio Lower Upper

202 100

200 21.0 16.8 25.2

203 17.6 14.4 21.6

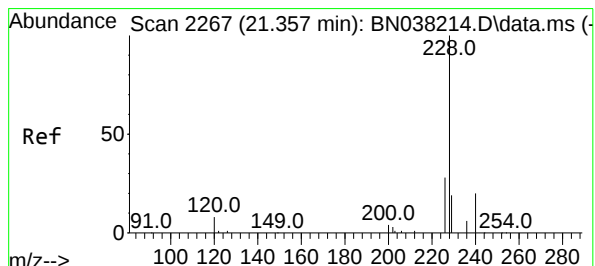
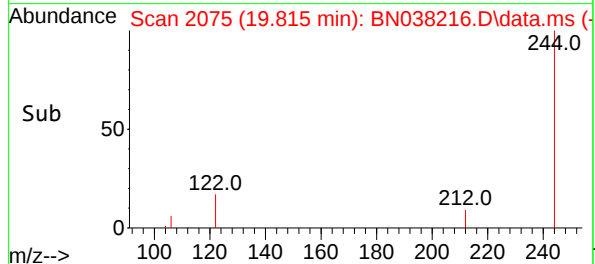
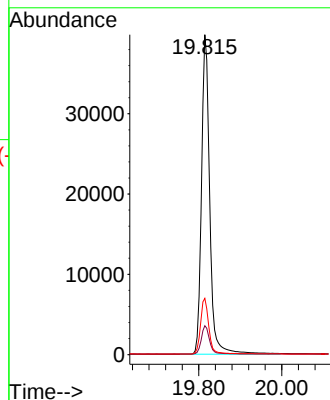
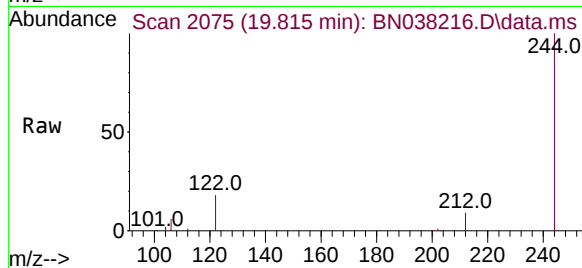




#31  
Terphenyl-d14  
Concen: 1.605 ng  
RT: 19.815 min Scan# 2076  
Delta R.T. -0.005 min  
Lab File: BN038216.D  
Acq: 26 Nov 2025 23:01

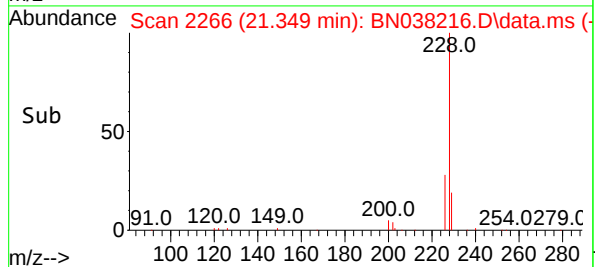
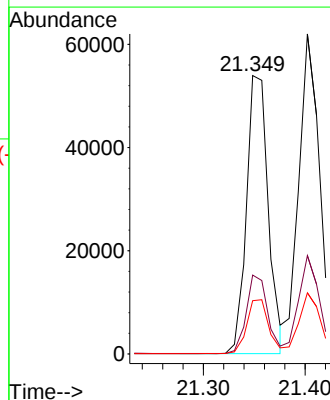
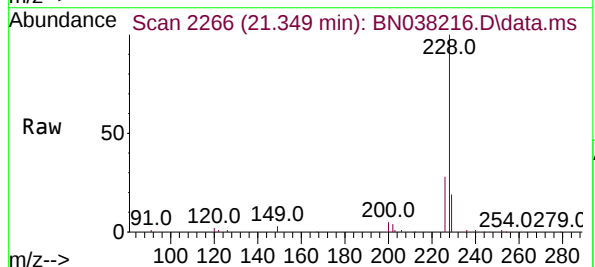
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC1.6

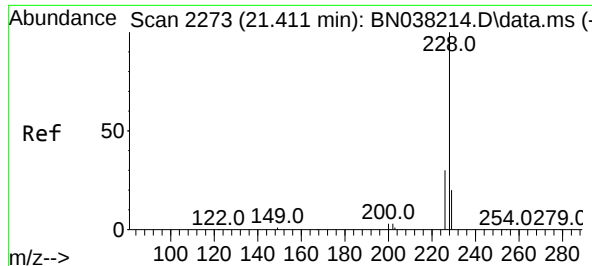
Tgt Ion:244 Resp: 54297  
Ion Ratio Lower Upper  
244 100  
212 9.0 7.7 11.5  
122 17.6 13.6 20.4



#32  
Benzo(a)anthracene  
Concen: 1.622 ng  
RT: 21.349 min Scan# 2266  
Delta R.T. -0.009 min  
Lab File: BN038216.D  
Acq: 26 Nov 2025 23:01

Tgt Ion:228 Resp: 80458  
Ion Ratio Lower Upper  
228 100  
226 28.3 22.6 33.8  
229 19.1 15.8 23.8





#33

Chrysene

Concen: 1.598 ng

RT: 21.402 min Scan# 21

Delta R.T. -0.009 min

Lab File: BN038216.D

Acq: 26 Nov 2025 23:01

Instrument :

BNA\_N

ClientSampleId :

SSTDICC1.6

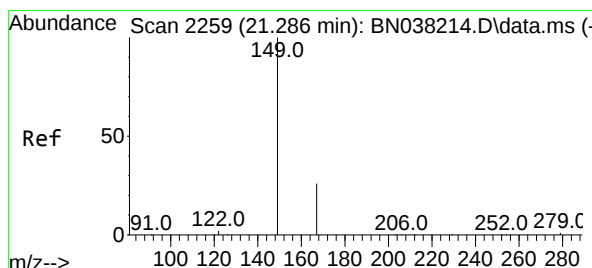
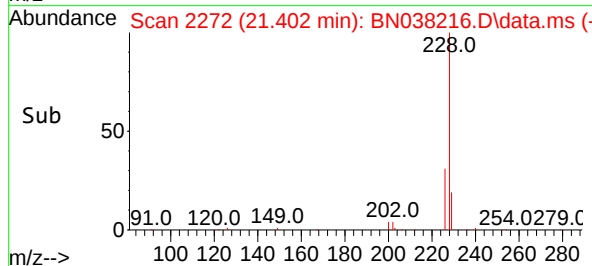
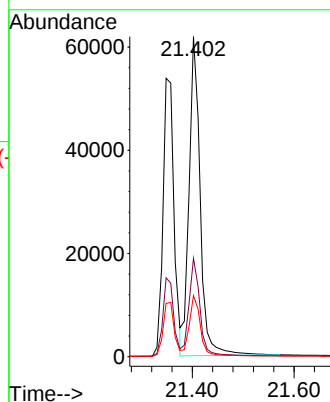
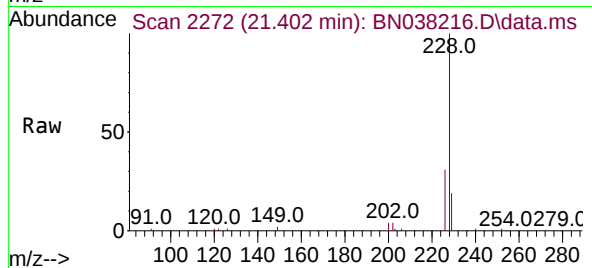
Tgt Ion:228 Resp: 93587

Ion Ratio Lower Upper

228 100

226 30.7 23.8 35.8

229 19.1 16.1 24.1



#34

Bis(2-ethylhexyl)phthalate

Concen: 1.472 ng

RT: 21.286 min Scan# 2259

Delta R.T. 0.000 min

Lab File: BN038216.D

Acq: 26 Nov 2025 23:01

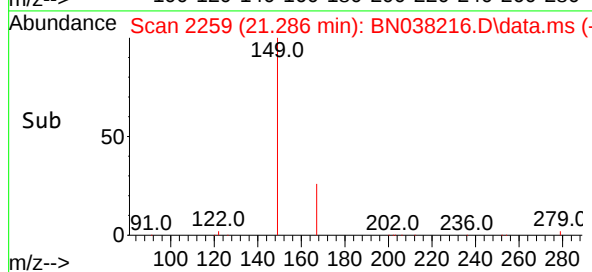
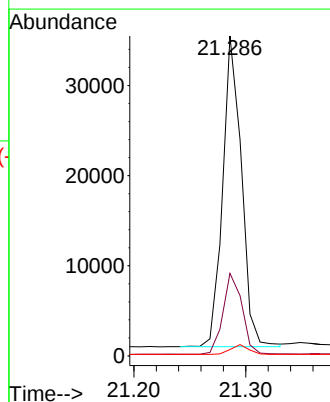
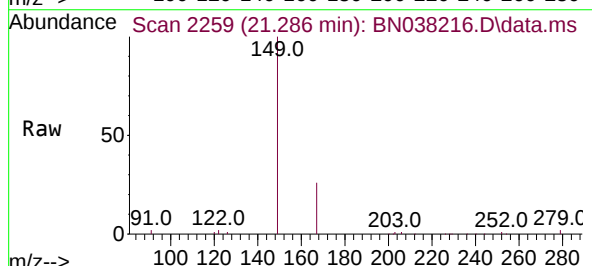
Tgt Ion:149 Resp: 39988

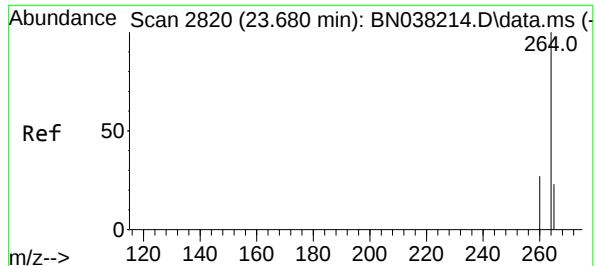
Ion Ratio Lower Upper

149 100

167 26.6 20.7 31.1

279 3.1 2.5 3.7





#35

Perylene-d12

Concen: 0.400 ng

RT: 23.674 min Scan# 2818

Delta R.T. -0.006 min

Lab File: BN038216.D

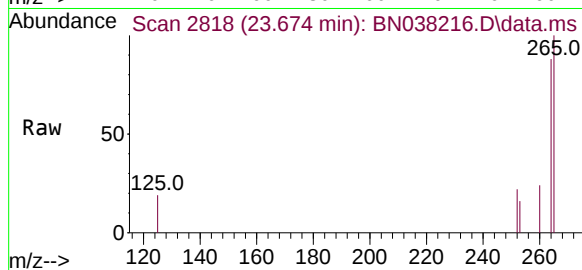
Acq: 26 Nov 2025 23:01

Instrument :

BNA\_N

ClientSampleId :

SSTDICC1.6



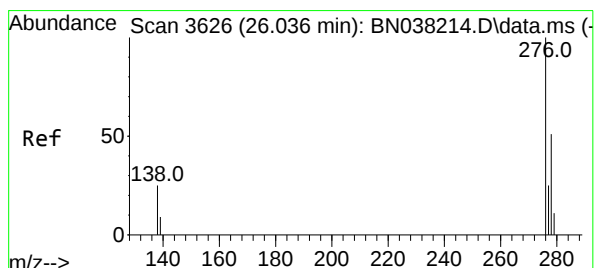
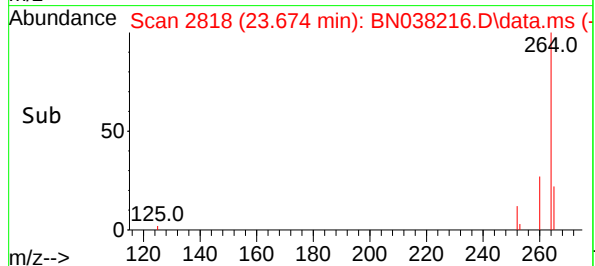
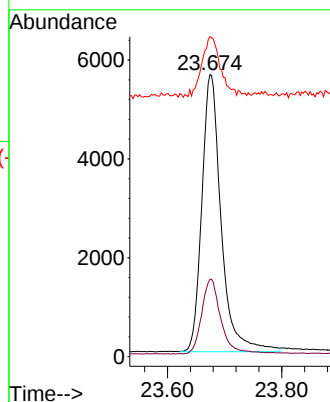
Tgt Ion:264 Resp: 13162

Ion Ratio Lower Upper

264 100

260 27.4 21.7 32.5

265 113.5 98.0 147.0



#36

Indeno(1,2,3-cd)pyrene

Concen: 1.696 ng

RT: 26.028 min Scan# 3623

Delta R.T. -0.009 min

Lab File: BN038216.D

Acq: 26 Nov 2025 23:01

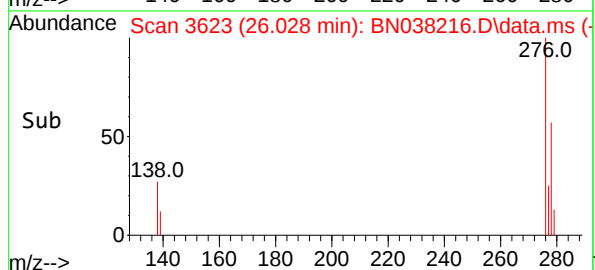
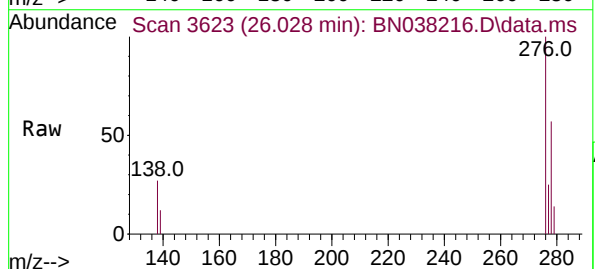
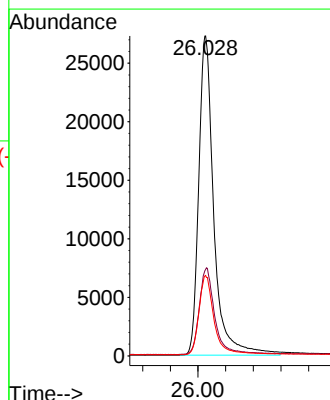
Tgt Ion:276 Resp: 103317

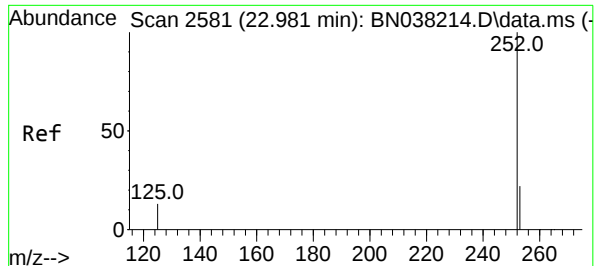
Ion Ratio Lower Upper

276 100

138 26.9 21.4 32.2

277 24.8 19.1 28.7





#37

Benzo(b)fluoranthene

Concen: 1.633 ng

RT: 22.975 min Scan# 2579

Delta R.T. -0.006 min

Lab File: BN038216.D

Acq: 26 Nov 2025 23:01

Instrument :

BNA\_N

ClientSampleId :

SSTDICC1.6

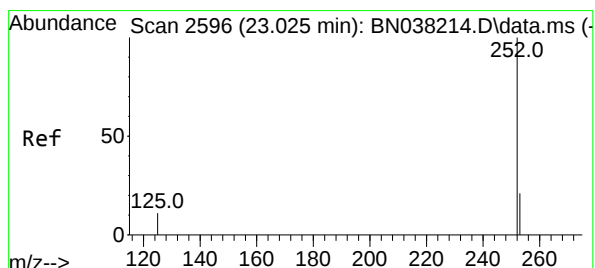
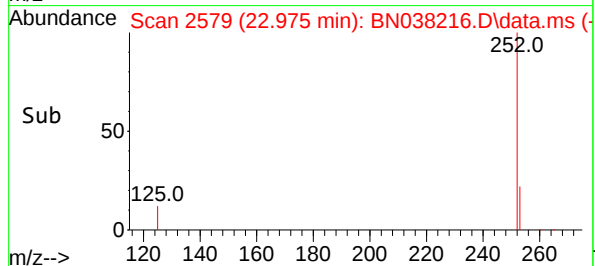
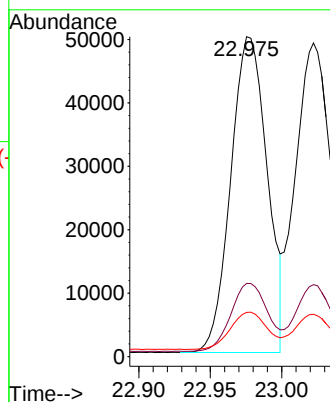
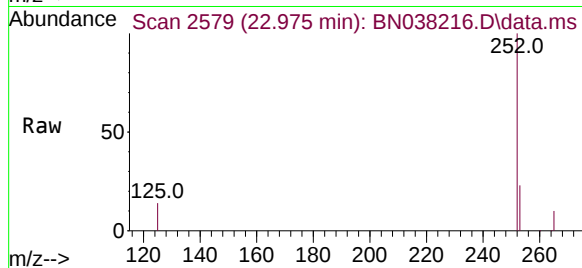
Tgt Ion:252 Resp: 88199

Ion Ratio Lower Upper

252 100

253 22.9 22.2 33.4

125 13.8 18.0 27.0#



#38

Benzo(k)fluoranthene

Concen: 1.639 ng

RT: 23.022 min Scan# 2595

Delta R.T. -0.003 min

Lab File: BN038216.D

Acq: 26 Nov 2025 23:01

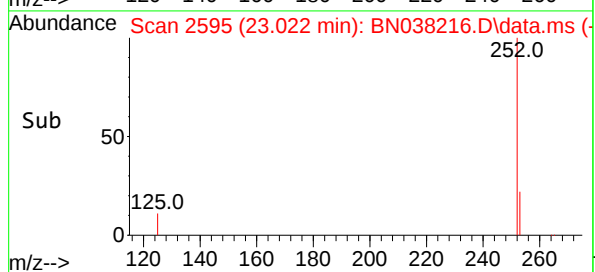
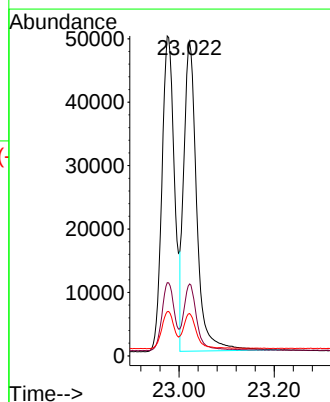
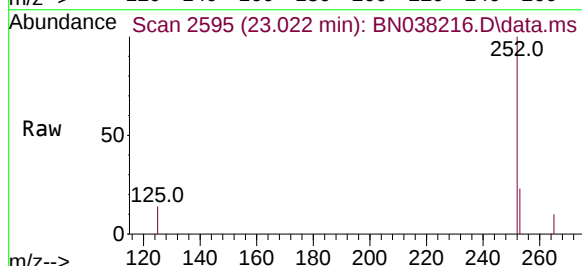
Tgt Ion:252 Resp: 92066

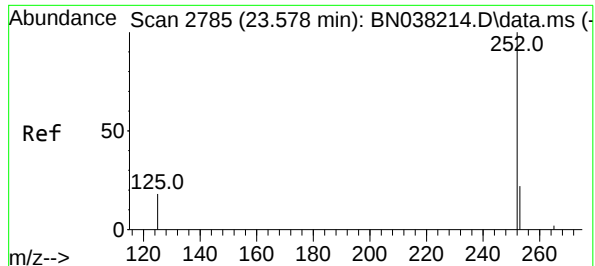
Ion Ratio Lower Upper

252 100

253 22.9 22.4 33.6

125 13.5 17.5 26.3#





#39

Benzo(a)pyrene

Concen: 1.631 ng

RT: 23.572 min Scan# 21

Delta R.T. -0.006 min

Lab File: BN038216.D

Acq: 26 Nov 2025 23:01

Instrument :

BNA\_N

ClientSampleId :

SSTDICC1.6

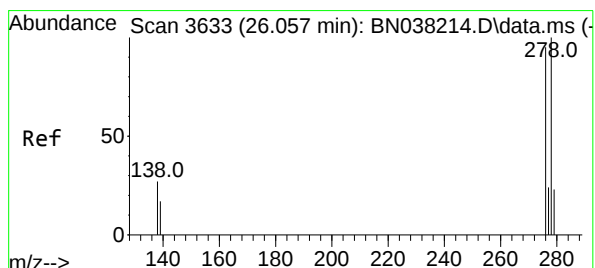
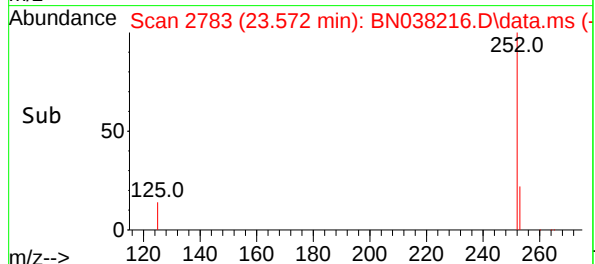
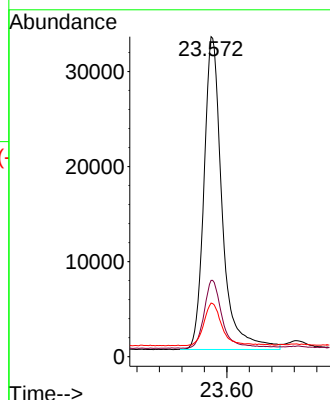
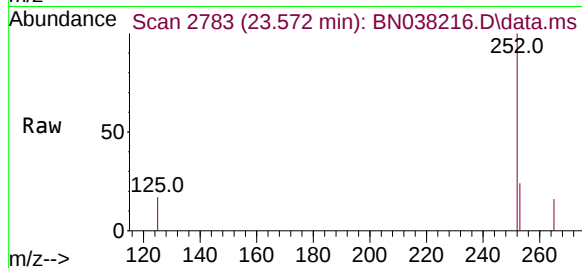
Tgt Ion:252 Resp: 73851

Ion Ratio Lower Upper

252 100

253 23.8 25.3 37.9#

125 16.7 25.2 37.8#



#40

Dibenzo(a,h)anthracene

Concen: 1.726 ng

RT: 26.042 min Scan# 3628

Delta R.T. -0.015 min

Lab File: BN038216.D

Acq: 26 Nov 2025 23:01

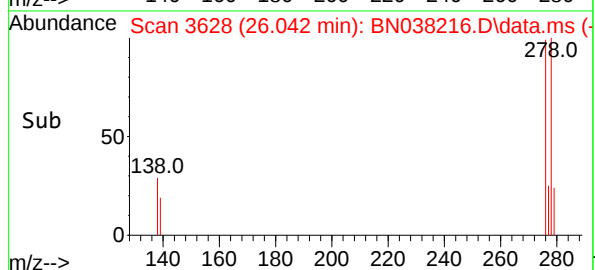
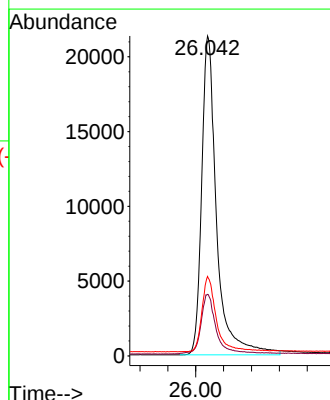
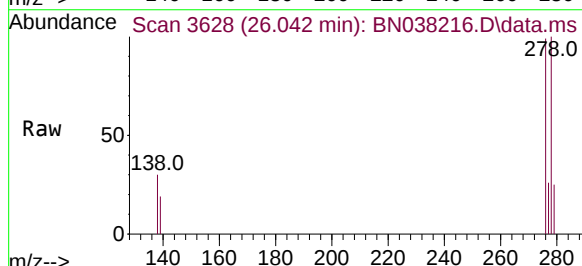
Tgt Ion:278 Resp: 79584

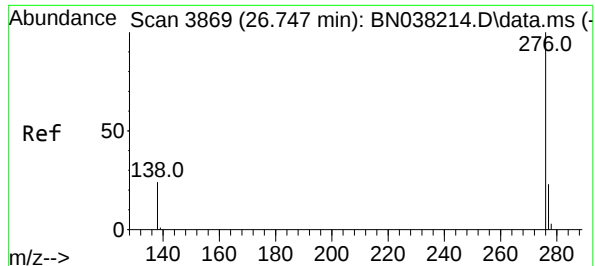
Ion Ratio Lower Upper

278 100

139 19.2 17.6 26.4

279 24.8 24.2 36.4





#41

Benzo(g,h,i)perylene

Concen: 1.652 ng

RT: 26.741 min Scan# 38

Delta R.T. -0.006 min

Lab File: BN038216.D

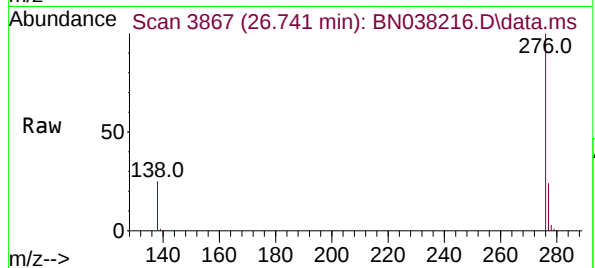
Acq: 26 Nov 2025 23:01

Instrument :

BNA\_N

ClientSampleId :

SSTDICC1.6



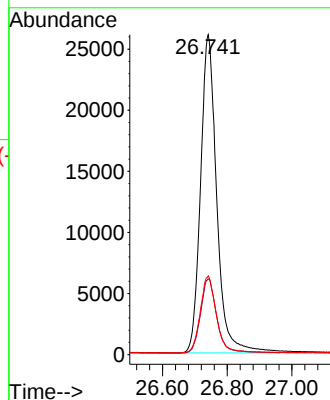
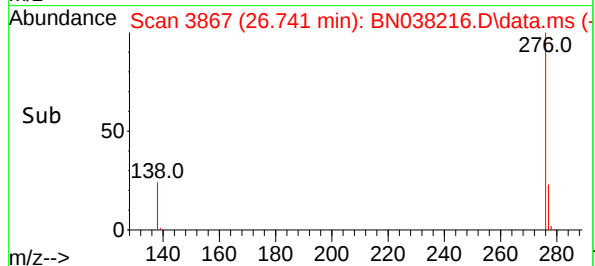
Tgt Ion:276 Resp: 90531

Ion Ratio Lower Upper

276 100

277 23.7 20.2 30.2

138 24.6 20.8 31.2



Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN112725\  
 Data File : BN038217.D  
 Acq On : 26 Nov 2025 23:37  
 Operator : RC/JU  
 Sample : SSTDICC3.2  
 Misc :  
 ALS Vial : 17 Sample Multiplier: 1

Instrument :  
 BNA\_N  
 ClientSampleId :  
 SSTDICC3.2

Quant Time: Nov 28 20:55:50 2025  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\8270-SIM-BN112725.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Fri Nov 28 20:22:09 2025  
 Response via : Initial Calibration

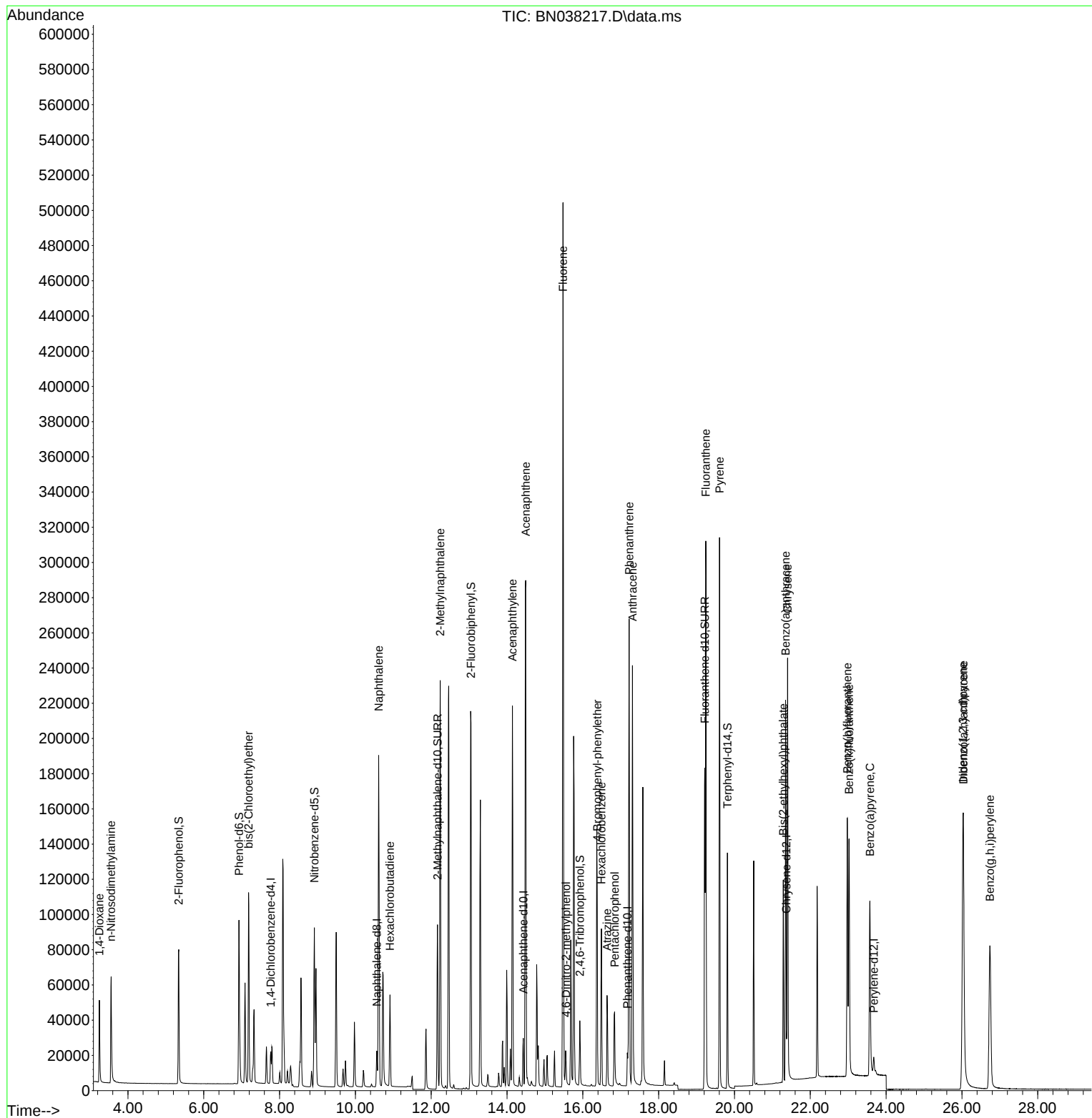
| Compound                      | R.T.   | QIon | Response | Conc  | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|-------|--------|----------|
| -----                         |        |      |          |       |        |          |
| Internal Standards            |        |      |          |       |        |          |
| 1) 1,4-Dichlorobenzene-d4     | 7.768  | 152  | 8921     | 0.400 | ng     | 0.00     |
| 7) Naphthalene-d8             | 10.562 | 136  | 27682    | 0.400 | ng     | #-0.01   |
| 13) Acenaphthene-d10          | 14.430 | 164  | 16051    | 0.400 | ng     | 0.00     |
| 19) Phenanthrene-d10          | 17.174 | 188  | 27295    | 0.400 | ng     | #-0.01   |
| 29) Chrysene-d12              | 21.367 | 240  | 16427    | 0.400 | ng     | # 0.00   |
| 35) Perylene-d12              | 23.674 | 264  | 13786    | 0.400 | ng     | 0.00     |
|                               |        |      |          |       |        |          |
| System Monitoring Compounds   |        |      |          |       |        |          |
| 4) 2-Fluorophenol             | 5.341  | 112  | 65305    | 3.132 | ng     | 0.00     |
| 5) Phenol-d6                  | 6.930  | 99   | 85830    | 3.295 | ng     | 0.00     |
| 8) Nitrobenzene-d5            | 8.918  | 82   | 68353    | 3.088 | ng     | 0.00     |
| 11) 2-Methylnaphthalene-d10   | 12.167 | 152  | 129220   | 3.288 | ng     | 0.00     |
| 14) 2,4,6-Tribromophenol      | 15.920 | 330  | 21150    | 4.188 | ng     | -0.01    |
| 15) 2-Fluorobiphenyl          | 13.051 | 172  | 189268   | 3.053 | ng     | 0.00     |
| 27) Fluoranthene-d10          | 19.215 | 212  | 197760   | 3.340 | ng     | 0.00     |
| 31) Terphenyl-d14             | 19.815 | 244  | 127791   | 3.368 | ng     | 0.00     |
|                               |        |      |          |       |        |          |
| Target Compounds              |        |      |          |       | Qvalue |          |
| 2) 1,4-Dioxane                | 3.247  | 88   | 28493    | 3.032 | ng     | 100      |
| 3) n-Nitrosodimethylamine     | 3.550  | 42   | 37688    | 3.252 | ng     | # 96     |
| 6) bis(2-Chloroethyl)ether    | 7.183  | 93   | 80616    | 3.232 | ng     | 98       |
| 9) Naphthalene                | 10.616 | 128  | 242099   | 3.149 | ng     | 99       |
| 10) Hexachlorobutadiene       | 10.915 | 225  | 39924    | 3.054 | ng     | # 99     |
| 12) 2-Methylnaphthalene       | 12.238 | 142  | 166016   | 3.282 | ng     | 99       |
| 16) Acenaphthylene            | 14.142 | 152  | 239664   | 3.339 | ng     | 100      |
| 17) Acenaphthene              | 14.495 | 154  | 162095   | 3.240 | ng     | 97       |
| 18) Fluorene                  | 15.478 | 166  | 219348   | 3.387 | ng     | 99       |
| 20) 4,6-Dinitro-2-methylph... | 15.560 | 198  | 12986    | 3.198 | ng     | # 1      |
| 21) 4-Bromophenyl-phenylether | 16.379 | 248  | 62082    | 3.283 | ng     | # 91     |
| 22) Hexachlorobenzene         | 16.491 | 284  | 69759    | 3.000 | ng     | 100      |
| 23) Atrazine                  | 16.640 | 200  | 43154    | 3.573 | ng     | # 91     |
| 24) Pentachlorophenol         | 16.838 | 266  | 25503    | 4.002 | ng     | 98       |
| 25) Phenanthrene              | 17.223 | 178  | 282285   | 3.294 | ng     | 100      |
| 26) Anthracene                | 17.310 | 178  | 252456   | 3.453 | ng     | 99       |
| 28) Fluoranthene              | 19.243 | 202  | 279719   | 3.387 | ng     | 99       |
| 30) Pyrene                    | 19.606 | 202  | 272924   | 3.326 | ng     | 100      |
| 32) Benzo(a)anthracene        | 21.349 | 228  | 186737   | 3.357 | ng     | 99       |
| 33) Chrysene                  | 21.402 | 228  | 202547   | 3.085 | ng     | 99       |
| 34) Bis(2-ethylhexyl)phtha... | 21.286 | 149  | 97307    | 3.194 | ng     | 99       |
| 36) Indeno(1,2,3-cd)pyrene    | 26.025 | 276  | 216471   | 3.393 | ng     | 98       |
| 37) Benzo(b)fluoranthene      | 22.979 | 252  | 189788   | 3.354 | ng     | # 84     |
| 38) Benzo(k)fluoranthene      | 23.022 | 252  | 195835   | 3.329 | ng     | # 85     |
| 39) Benzo(a)pyrene            | 23.572 | 252  | 156001   | 3.289 | ng     | # 76     |
| 40) Dibenzo(a,h)anthracene    | 26.040 | 278  | 169926   | 3.518 | ng     | # 90     |
| 41) Benzo(g,h,i)perylene      | 26.738 | 276  | 186060   | 3.242 | ng     | 97       |

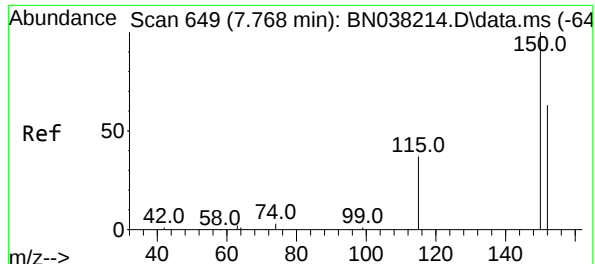
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN112725\  
Data File : BN038217.D  
Acq On : 26 Nov 2025 23:37  
Operator : RC/JU  
Sample : SSTDICC3.2  
Misc :  
ALS Vial : 17 Sample Multiplier: 1

Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC3.2

Quant Time: Nov 28 20:55:50 2025  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\8270-SIM-BN112725.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Fri Nov 28 20:22:09 2025  
Response via : Initial Calibration

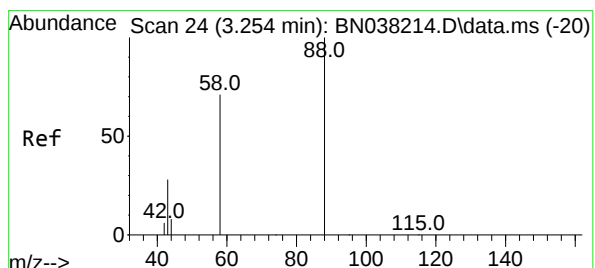
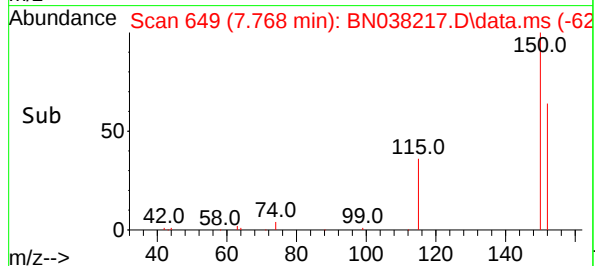
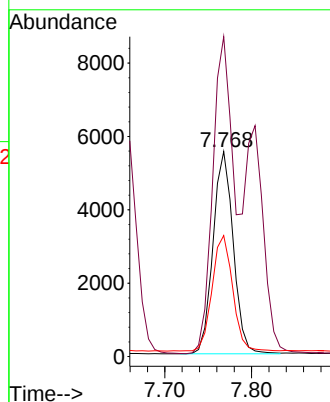
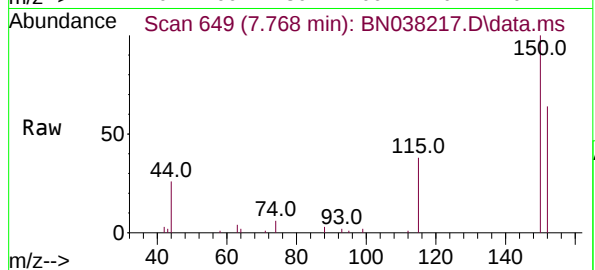




#1  
1,4-Dichlorobenzene-d4  
Concen: 0.400 ng  
RT: 7.768 min Scan# 64  
Delta R.T. -0.000 min  
Lab File: BN038217.D  
Acq: 26 Nov 2025 23:37

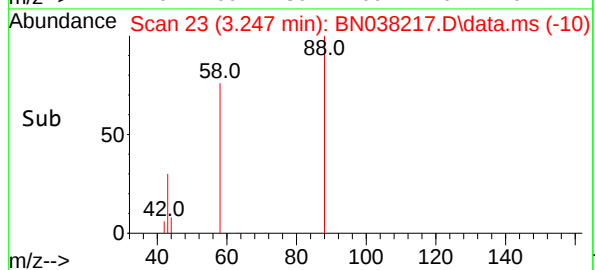
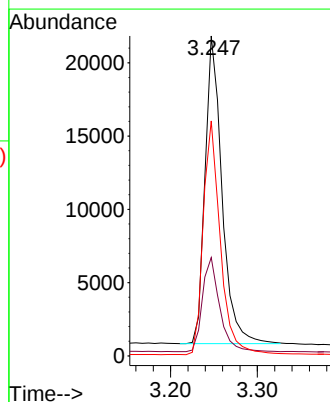
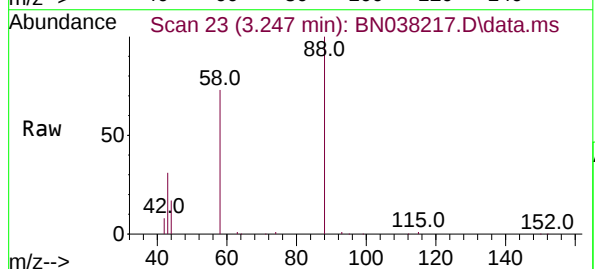
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC3.2

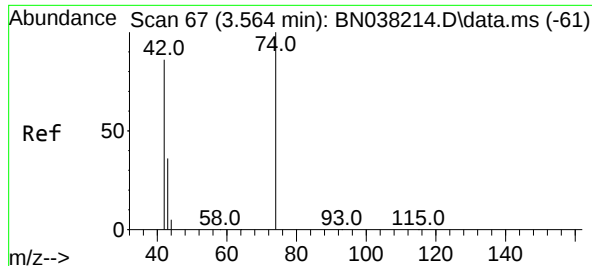
Tgt Ion:152 Resp: 8921  
Ion Ratio Lower Upper  
152 100  
150 156.1 125.3 187.9  
115 59.1 49.0 73.4



#2  
1,4-Dioxane  
Concen: 3.032 ng  
RT: 3.247 min Scan# 23  
Delta R.T. -0.007 min  
Lab File: BN038217.D  
Acq: 26 Nov 2025 23:37

Tgt Ion: 88 Resp: 28493  
Ion Ratio Lower Upper  
88 100  
43 30.9 24.8 37.2  
58 76.3 61.1 91.7

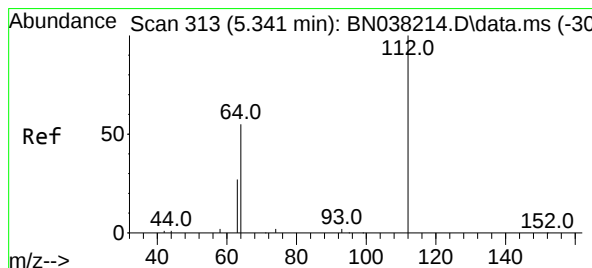
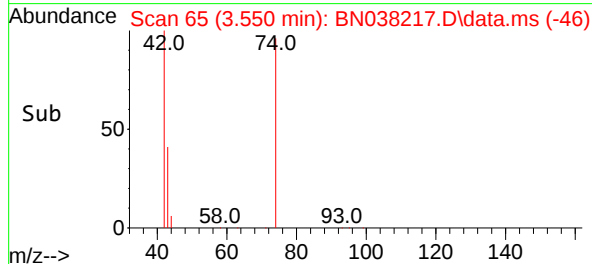
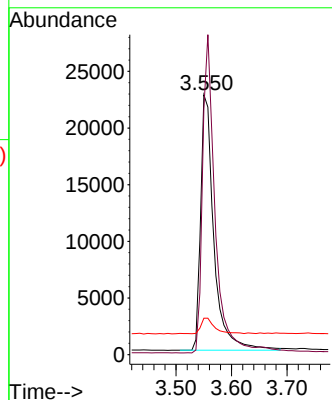
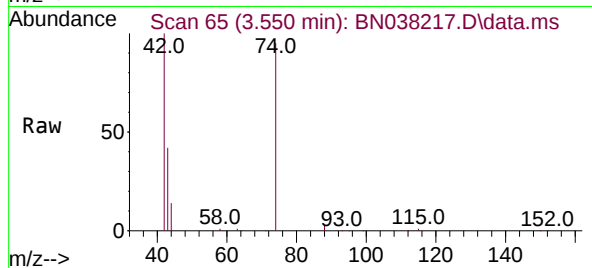




#3  
n-Nitrosodimethylamine  
Concen: 3.252 ng  
RT: 3.550 min Scan# 61  
Delta R.T. -0.014 min  
Lab File: BN038217.D  
Acq: 26 Nov 2025 23:37

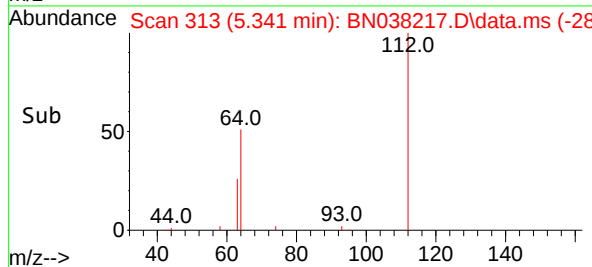
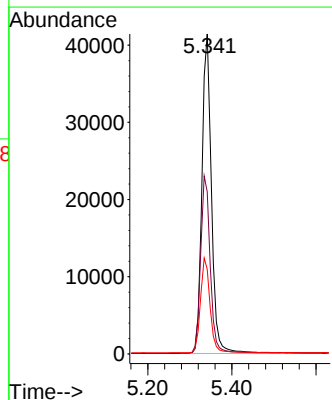
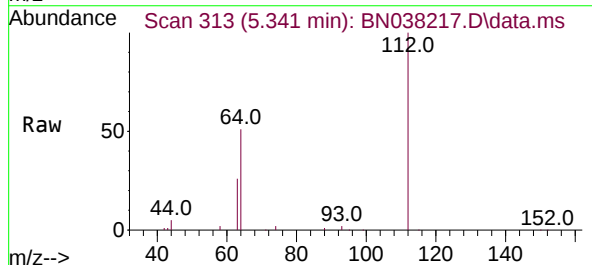
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC3.2

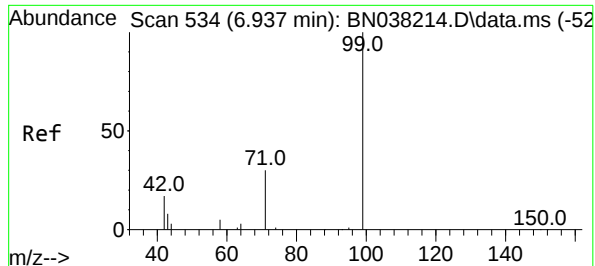
Tgt Ion: 42 Resp: 37688  
Ion Ratio Lower Upper  
42 100  
74 116.3 96.2 144.2  
44 6.3 8.0 12.0#



#4  
2-Fluorophenol  
Concen: 3.132 ng  
RT: 5.341 min Scan# 313  
Delta R.T. 0.000 min  
Lab File: BN038217.D  
Acq: 26 Nov 2025 23:37

Tgt Ion: 112 Resp: 65305  
Ion Ratio Lower Upper  
112 100  
64 56.4 45.0 67.4  
63 29.7 23.2 34.8

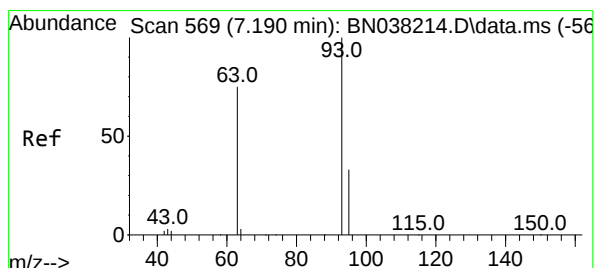
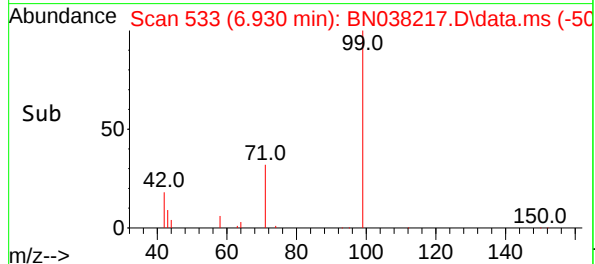
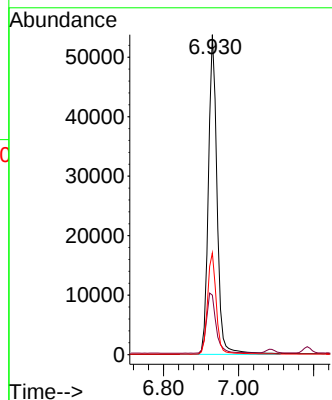
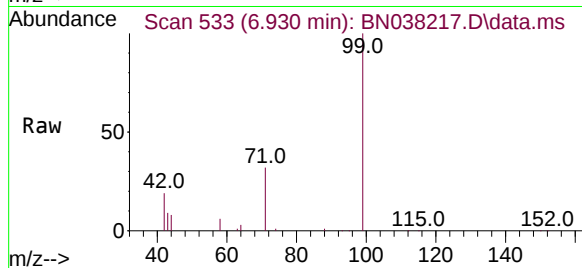




#5  
Phenol-d6  
Concen: 3.295 ng  
RT: 6.930 min Scan# 531  
Delta R.T. -0.007 min  
Lab File: BN038217.D  
Acq: 26 Nov 2025 23:37

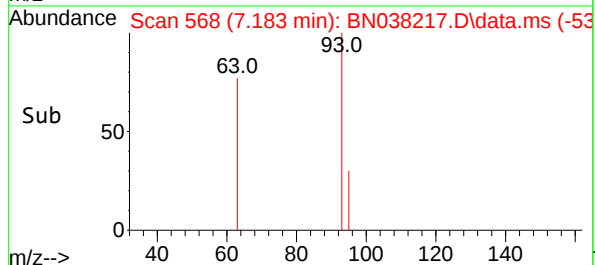
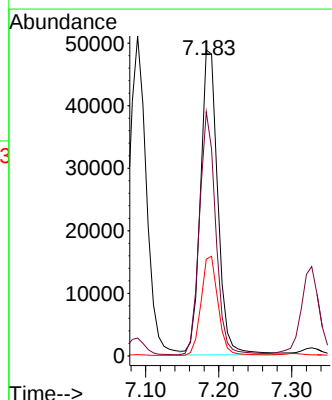
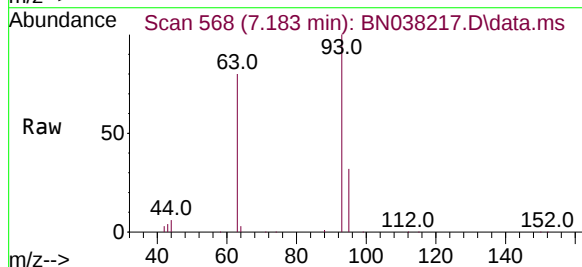
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC3.2

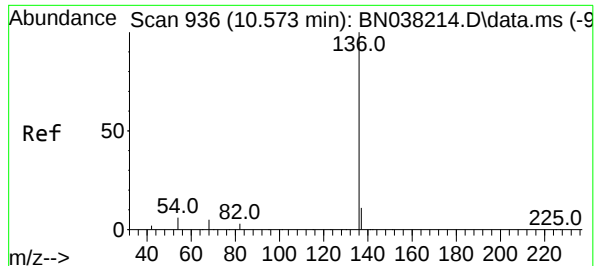
Tgt Ion: 99 Resp: 85830  
Ion Ratio Lower Upper  
99 100  
42 21.0 17.0 25.6  
71 32.2 25.4 38.2



#6  
bis(2-Chloroethyl)ether  
Concen: 3.232 ng  
RT: 7.183 min Scan# 568  
Delta R.T. -0.007 min  
Lab File: BN038217.D  
Acq: 26 Nov 2025 23:37

Tgt Ion: 93 Resp: 80616  
Ion Ratio Lower Upper  
93 100  
63 74.8 58.1 87.1  
95 31.8 25.1 37.7

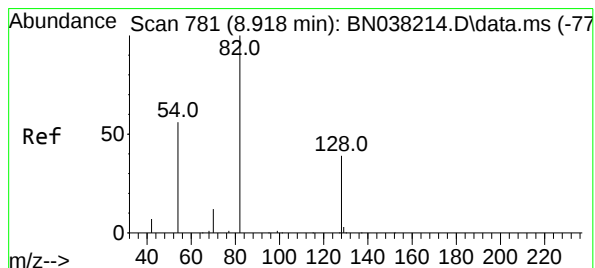
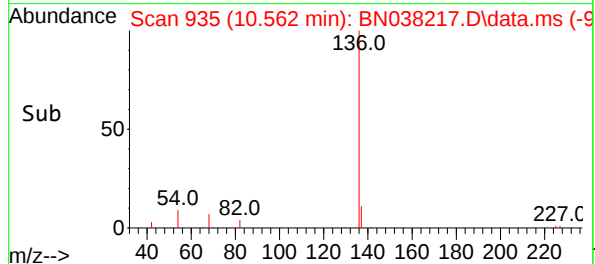
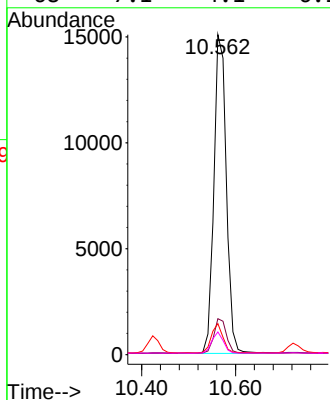
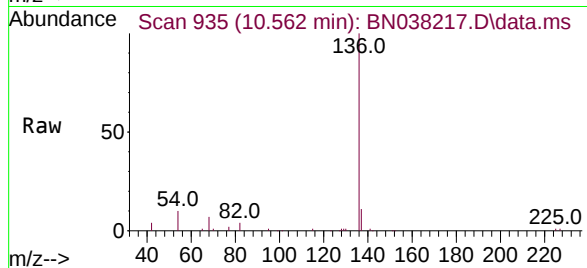




#7  
Naphthalene-d8  
Concen: 0.400 ng  
RT: 10.562 min Scan# 936  
Delta R.T. -0.010 min  
Lab File: BN038217.D  
Acq: 26 Nov 2025 23:37

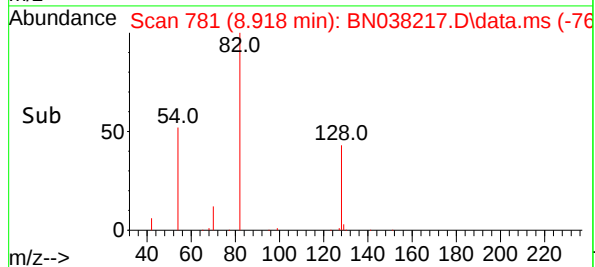
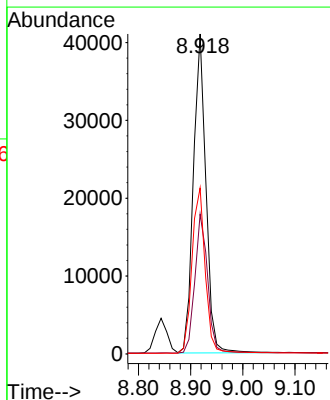
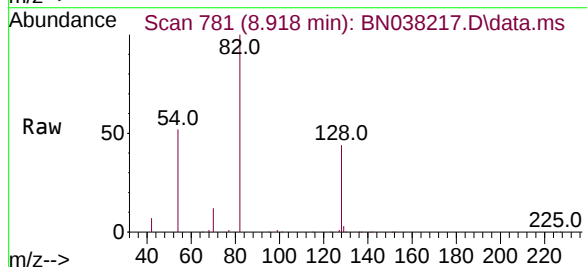
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC3.2

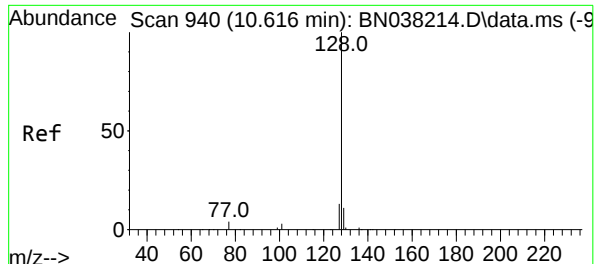
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 136   | Resp: | 27682 |
| Ion      | Ratio | Lower | Upper |
| 136      | 100   |       |       |
| 137      | 11.2  | 8.9   | 13.3  |
| 54       | 9.7   | 5.4   | 8.0#  |
| 68       | 7.1   | 4.1   | 6.1#  |



#8  
Nitrobenzene-d5  
Concen: 3.088 ng  
RT: 8.918 min Scan# 781  
Delta R.T. 0.000 min  
Lab File: BN038217.D  
Acq: 26 Nov 2025 23:37

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 82    | Resp: | 68353 |
| Ion      | Ratio | Lower | Upper |
| 82       | 100   |       |       |
| 128      | 43.7  | 32.6  | 48.8  |
| 54       | 51.9  | 45.4  | 68.0  |

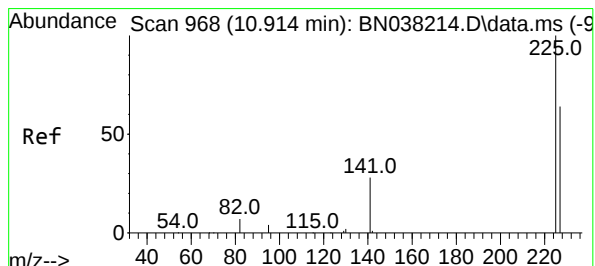
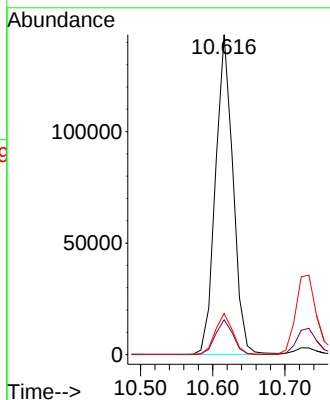
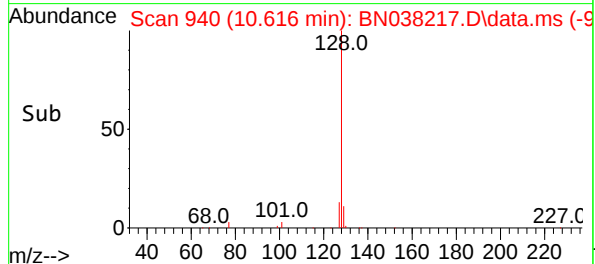
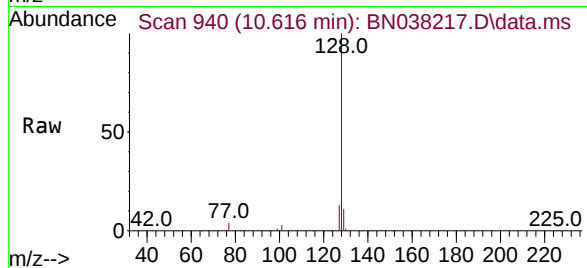




#9  
Naphthalene  
Concen: 3.149 ng  
RT: 10.616 min Scan# 940  
Delta R.T. 0.000 min  
Lab File: BN038217.D  
Acq: 26 Nov 2025 23:37

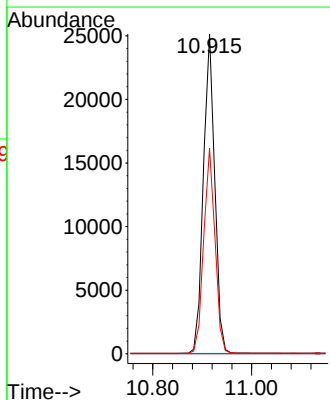
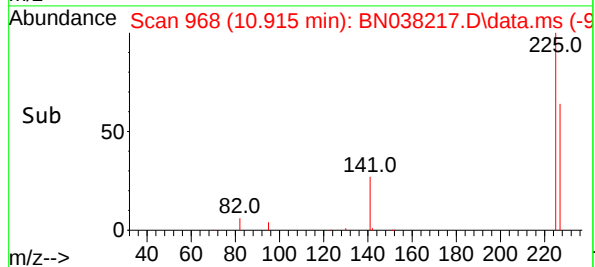
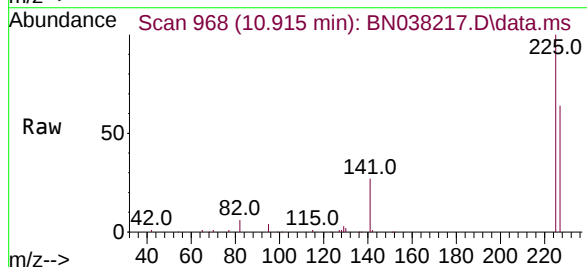
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC3.2

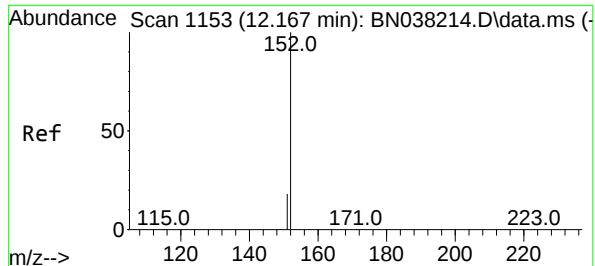
Tgt Ion:128 Resp: 242099  
Ion Ratio Lower Upper  
128 100  
129 10.9 9.1 13.7  
127 12.9 10.6 16.0



#10  
Hexachlorobutadiene  
Concen: 3.054 ng  
RT: 10.915 min Scan# 968  
Delta R.T. 0.000 min  
Lab File: BN038217.D  
Acq: 26 Nov 2025 23:37

Tgt Ion:225 Resp: 39924  
Ion Ratio Lower Upper  
225 100  
223 0.0 0.0 0.0  
227 64.2 50.5 75.7

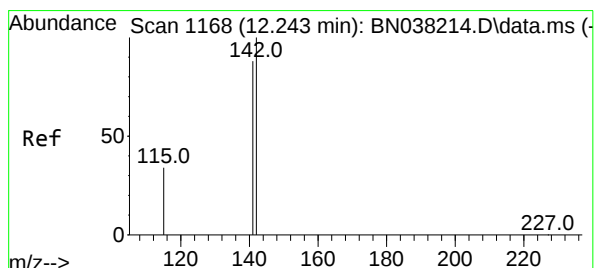
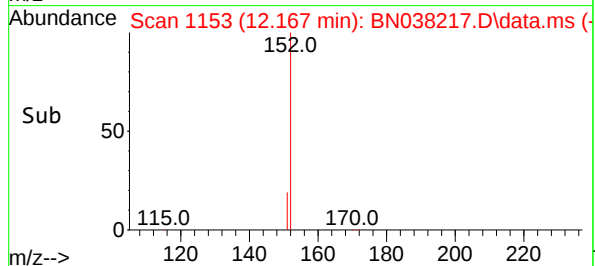
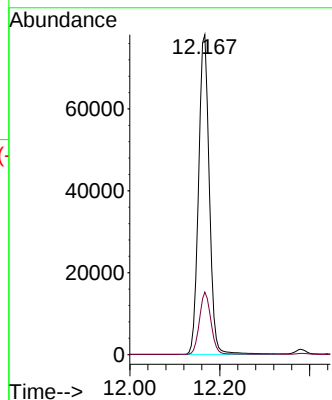
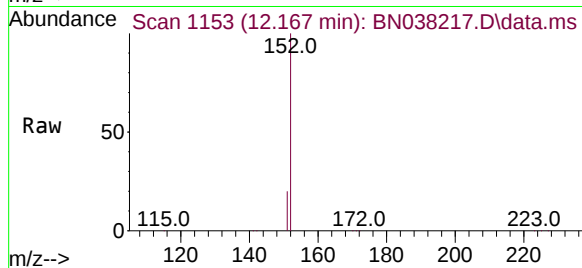




#11  
2-Methylnaphthalene-d10  
Concen: 3.288 ng  
RT: 12.167 min Scan# 1153  
Delta R.T. 0.000 min  
Lab File: BN038217.D  
Acq: 26 Nov 2025 23:37

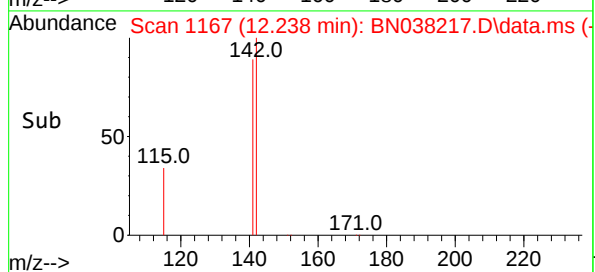
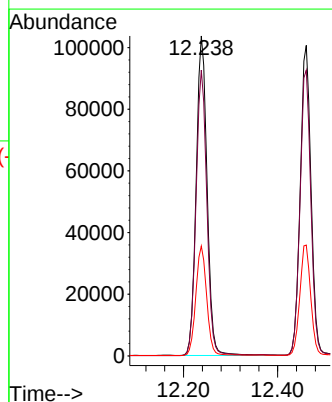
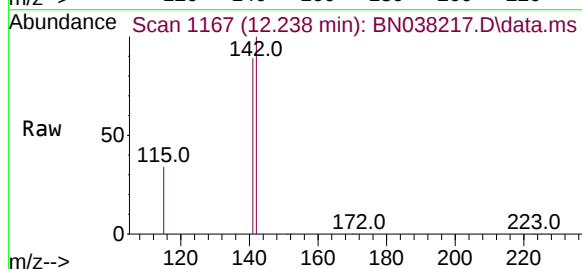
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC3.2

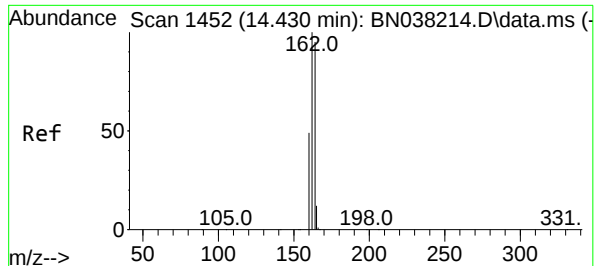
Tgt Ion:152 Resp: 129220  
Ion Ratio Lower Upper  
152 100  
151 20.9 16.7 25.1



#12  
2-Methylnaphthalene  
Concen: 3.282 ng  
RT: 12.238 min Scan# 1167  
Delta R.T. -0.005 min  
Lab File: BN038217.D  
Acq: 26 Nov 2025 23:37

Tgt Ion:142 Resp: 166016  
Ion Ratio Lower Upper  
142 100  
141 89.3 70.9 106.3  
115 34.3 27.7 41.5

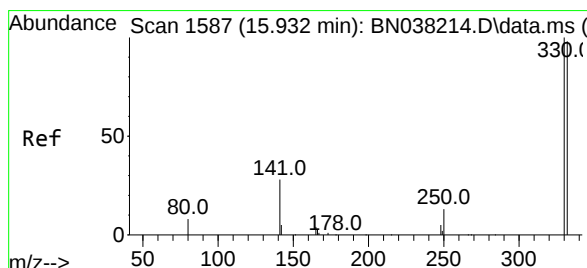
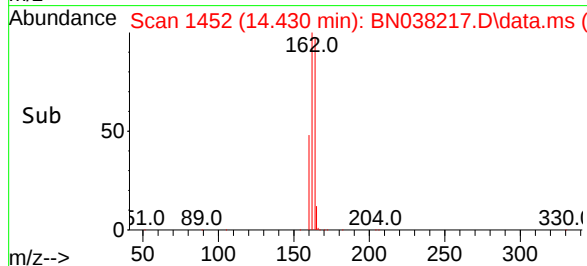
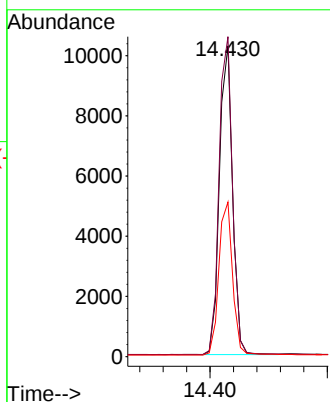
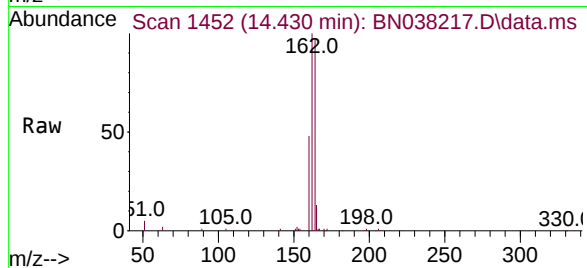




#13  
Acenaphthene-d10  
Concen: 0.400 ng  
RT: 14.430 min Scan# 1452  
Delta R.T. 0.000 min  
Lab File: BN038217.D  
Acq: 26 Nov 2025 23:37

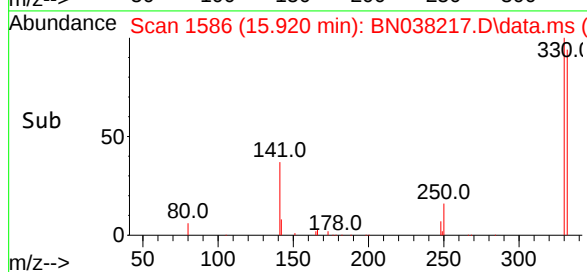
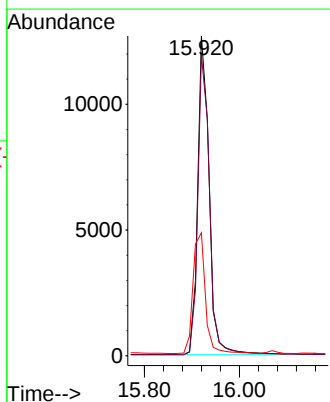
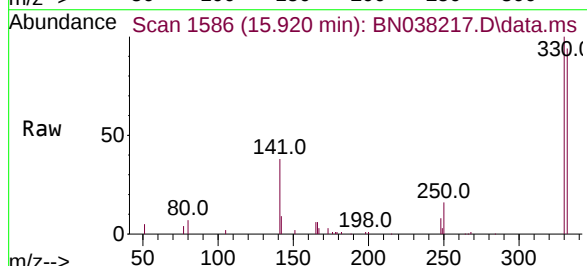
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC3.2

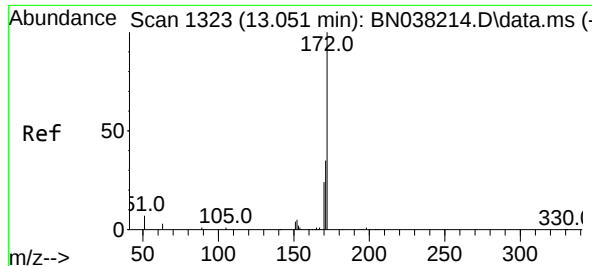
| Tgt Ion   | 164   | Resp: | 16051 |
|-----------|-------|-------|-------|
| Ion Ratio | Lower | Upper |       |
| 164       | 100   |       |       |
| 162       | 103.0 | 83.8  | 125.8 |
| 160       | 49.7  | 41.6  | 62.4  |



#14  
2,4,6-Tribromophenol  
Concen: 4.188 ng  
RT: 15.920 min Scan# 1586  
Delta R.T. -0.012 min  
Lab File: BN038217.D  
Acq: 26 Nov 2025 23:37

| Tgt Ion   | 330   | Resp: | 21150 |
|-----------|-------|-------|-------|
| Ion Ratio | Lower | Upper |       |
| 330       | 100   |       |       |
| 332       | 96.2  | 77.8  | 116.6 |
| 141       | 41.0  | 33.0  | 49.4  |





#15

2-Fluorobiphenyl

Concen: 3.053 ng

RT: 13.051 min Scan# 1323

Delta R.T. 0.000 min

Lab File: BN038217.D

Acq: 26 Nov 2025 23:37

Instrument :

BNA\_N

ClientSampleId :

SSTDICC3.2

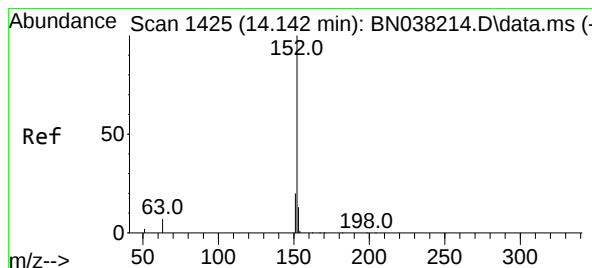
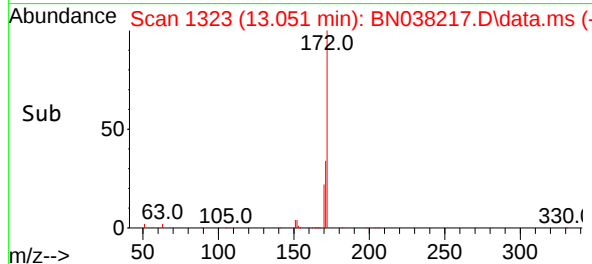
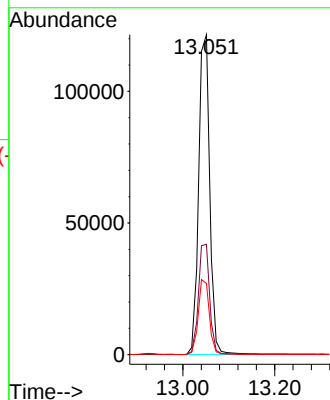
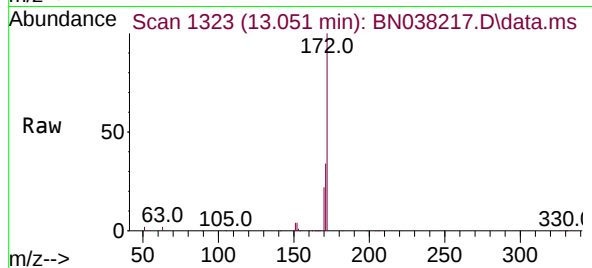
Tgt Ion:172 Resp: 189268

Ion Ratio Lower Upper

172 100

171 34.5 28.1 42.1

170 22.3 19.1 28.7



#16

Acenaphthylene

Concen: 3.339 ng

RT: 14.142 min Scan# 1425

Delta R.T. 0.000 min

Lab File: BN038217.D

Acq: 26 Nov 2025 23:37

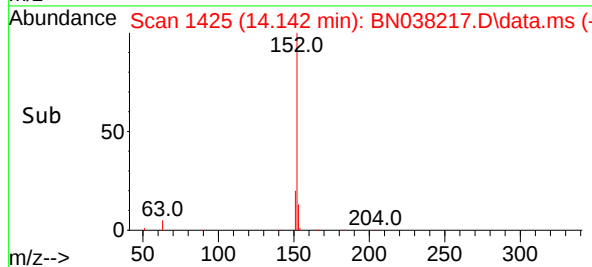
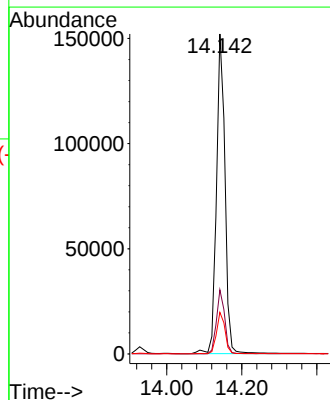
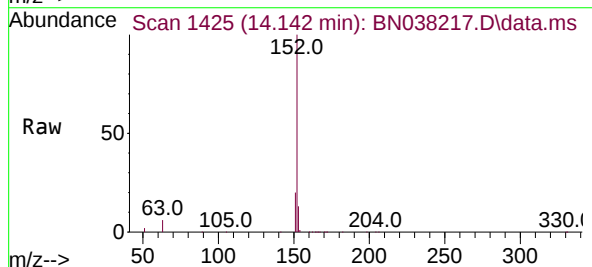
Tgt Ion:152 Resp: 239664

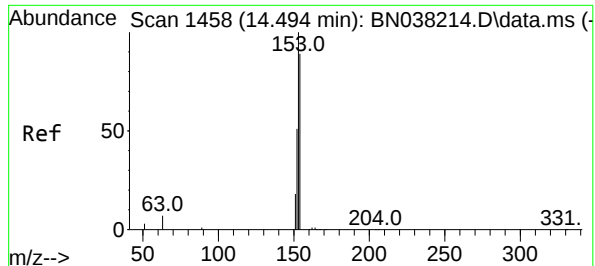
Ion Ratio Lower Upper

152 100

151 19.4 15.6 23.4

153 13.0 10.6 15.8

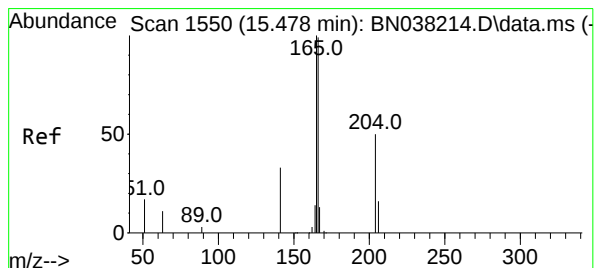
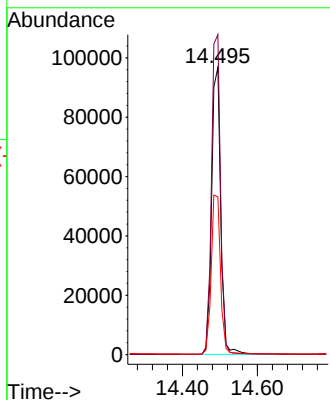
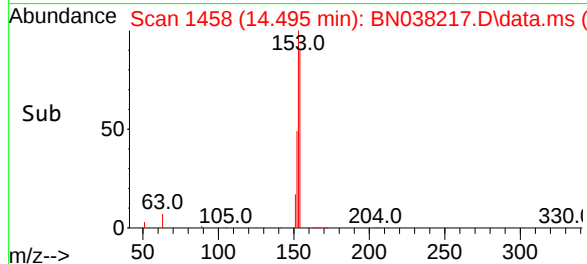
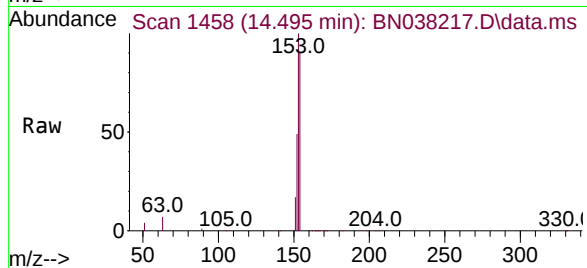




#17  
Acenaphthene  
Concen: 3.240 ng  
RT: 14.495 min Scan# 1458  
Delta R.T. 0.000 min  
Lab File: BN038217.D  
Acq: 26 Nov 2025 23:37

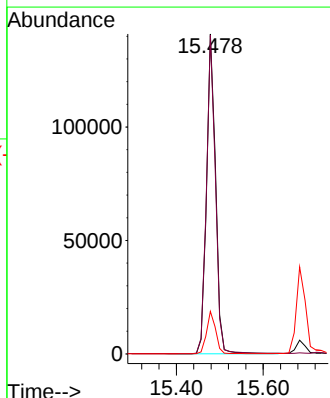
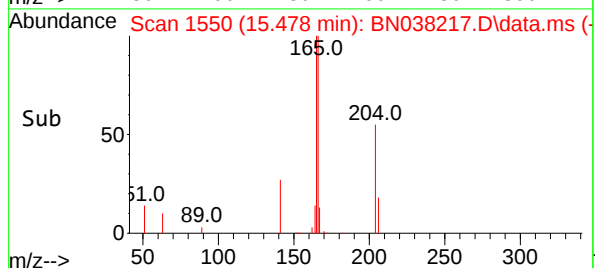
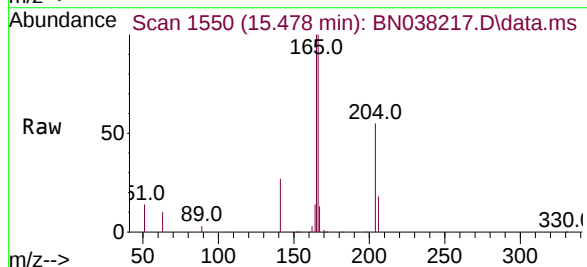
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC3.2

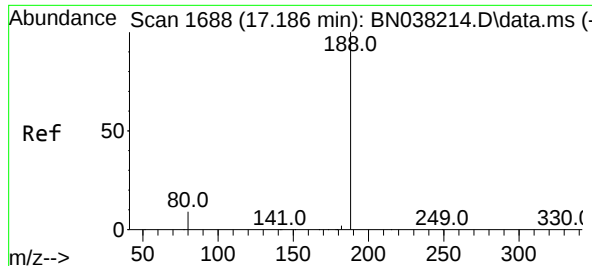
Tgt Ion:154 Resp: 162095  
Ion Ratio Lower Upper  
154 100  
153 111.5 91.1 136.7  
152 56.7 48.2 72.2



#18  
Fluorene  
Concen: 3.387 ng  
RT: 15.478 min Scan# 1550  
Delta R.T. 0.000 min  
Lab File: BN038217.D  
Acq: 26 Nov 2025 23:37

Tgt Ion:166 Resp: 219348  
Ion Ratio Lower Upper  
166 100  
165 98.9 78.7 118.1  
167 13.2 10.9 16.3





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 17.174 min Scan# 1688

Delta R.T. -0.012 min

Lab File: BN038217.D

Acq: 26 Nov 2025 23:37

Instrument :

BNA\_N

ClientSampleId :

SSTDICC3.2

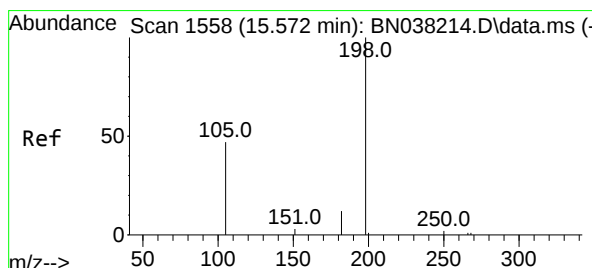
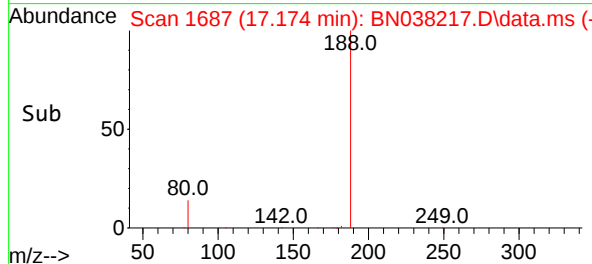
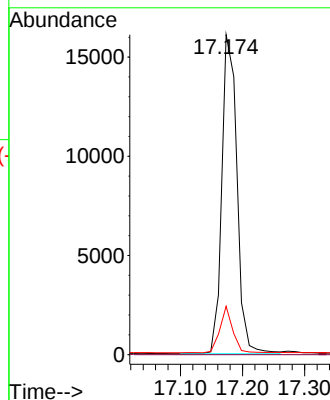
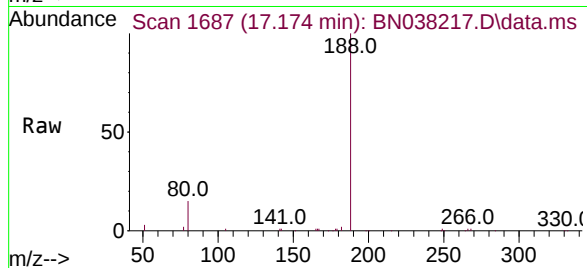
Tgt Ion:188 Resp: 27295

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 15.1 7.7 11.5#



#20

4,6-Dinitro-2-methylphenol

Concen: 3.198 ng

RT: 15.560 min Scan# 1557

Delta R.T. -0.012 min

Lab File: BN038217.D

Acq: 26 Nov 2025 23:37

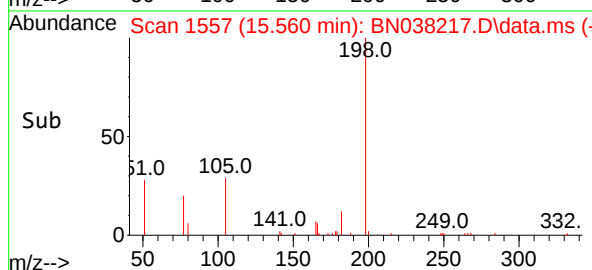
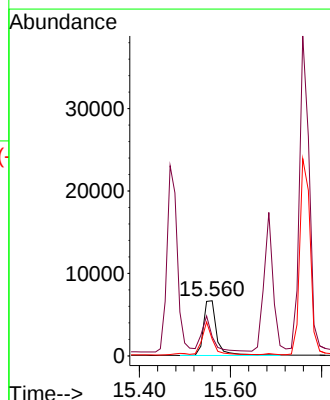
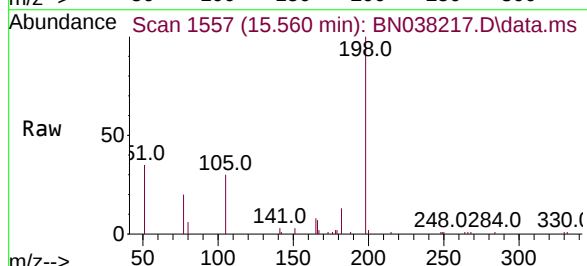
Tgt Ion:198 Resp: 12986

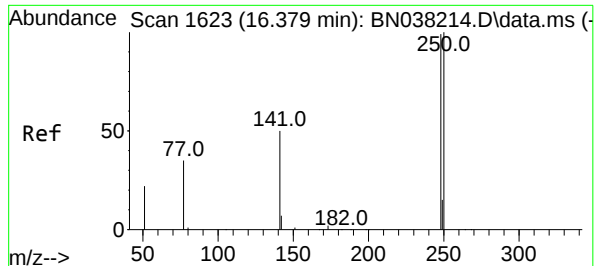
Ion Ratio Lower Upper

198 100

51 34.6 205.1 307.7#

105 30.5 61.6 92.4#

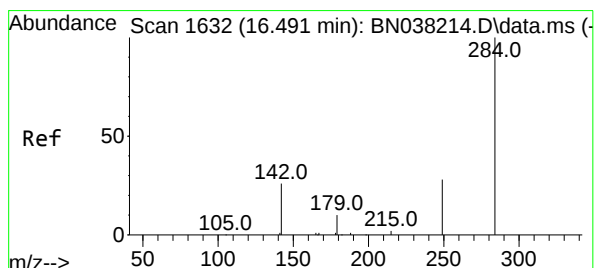
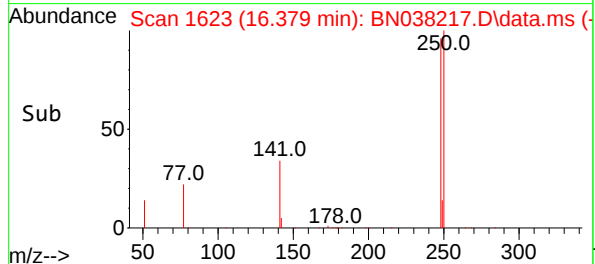
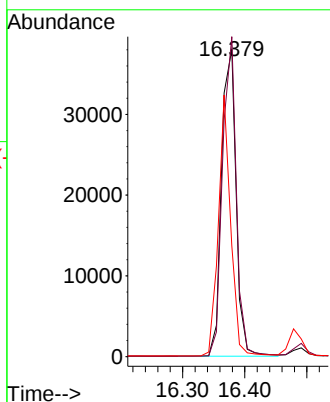
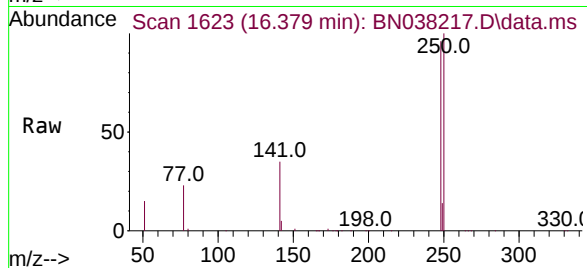




#21  
4-Bromophenyl-phenylether  
Concen: 3.283 ng  
RT: 16.379 min Scan# 1623  
Delta R.T. 0.000 min  
Lab File: BN038217.D  
Acq: 26 Nov 2025 23:37

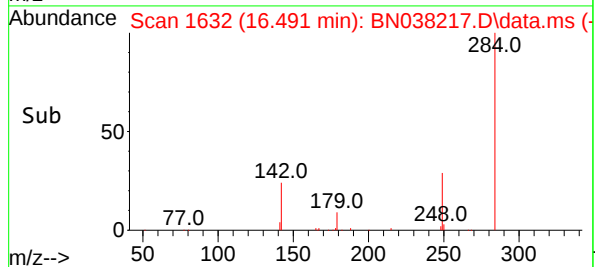
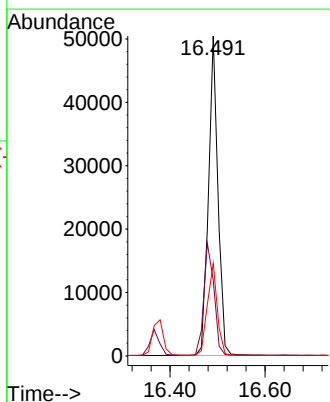
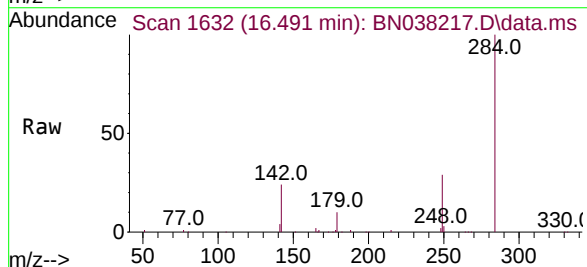
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC3.2

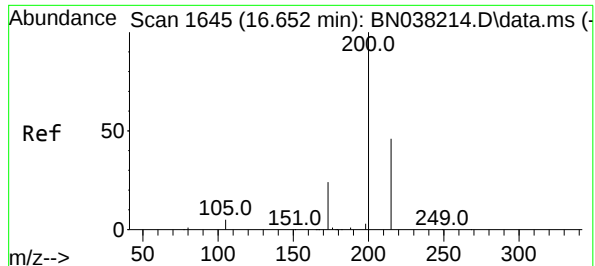
Tgt Ion:248 Resp: 62082  
Ion Ratio Lower Upper  
248 100  
250 104.2 80.8 121.2  
141 36.1 41.0 61.6#



#22  
Hexachlorobenzene  
Concen: 3.000 ng  
RT: 16.491 min Scan# 1632  
Delta R.T. 0.000 min  
Lab File: BN038217.D  
Acq: 26 Nov 2025 23:37

Tgt Ion:284 Resp: 69759  
Ion Ratio Lower Upper  
284 100  
142 37.8 30.5 45.7  
249 29.9 23.8 35.8

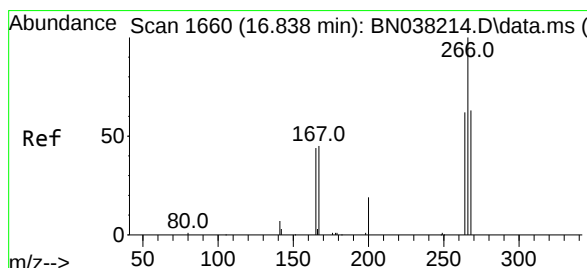
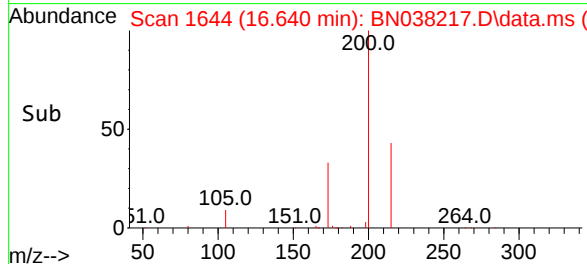
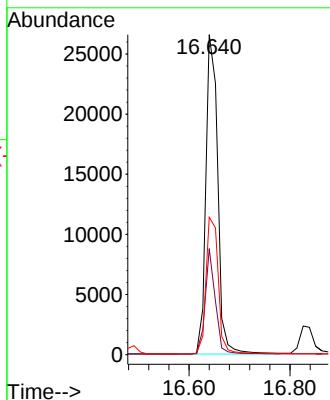
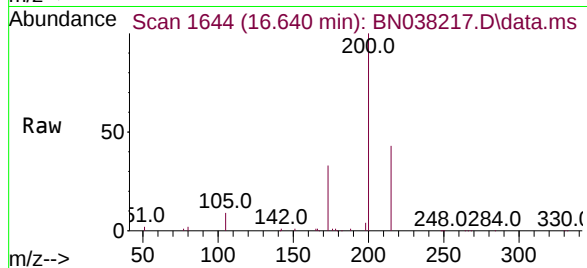




#23  
Atrazine  
Concen: 3.573 ng  
RT: 16.640 min Scan# 1644  
Delta R.T. -0.012 min  
Lab File: BN038217.D  
Acq: 26 Nov 2025 23:37

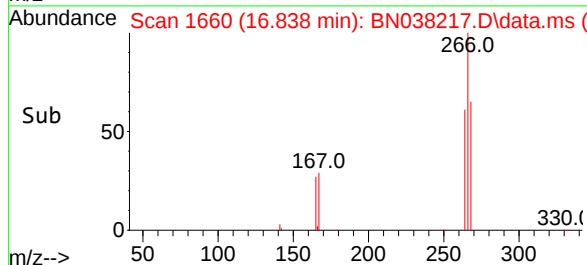
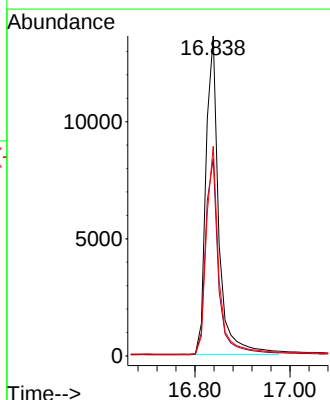
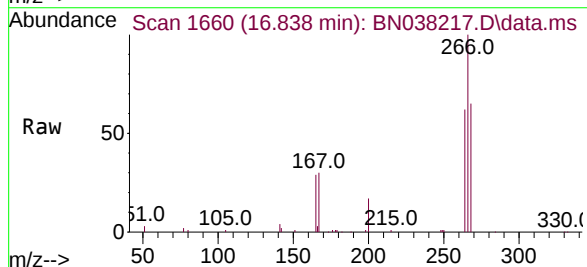
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC3.2

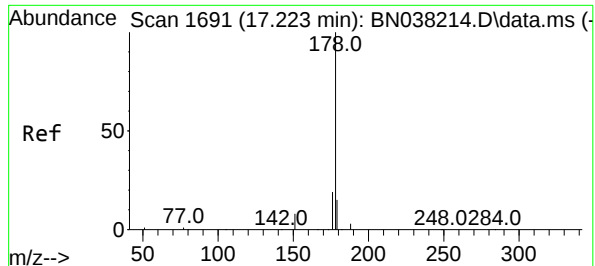
Tgt Ion:200 Resp: 43154  
Ion Ratio Lower Upper  
200 100  
173 33.1 21.0 31.6#  
215 42.9 37.8 56.8



#24  
Pentachlorophenol  
Concen: 4.002 ng  
RT: 16.838 min Scan# 1660  
Delta R.T. 0.000 min  
Lab File: BN038217.D  
Acq: 26 Nov 2025 23:37

Tgt Ion:266 Resp: 25503  
Ion Ratio Lower Upper  
266 100  
264 62.5 48.9 73.3  
268 63.8 50.2 75.2





#25

Phenanthrene

Concen: 3.294 ng

RT: 17.223 min Scan# 1691

Delta R.T. 0.000 min

Lab File: BN038217.D

Acq: 26 Nov 2025 23:37

Instrument :

BNA\_N

ClientSampleId :

SSTDICC3.2

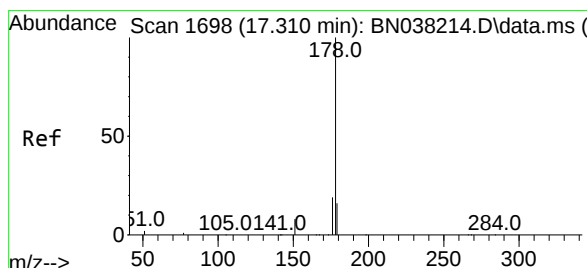
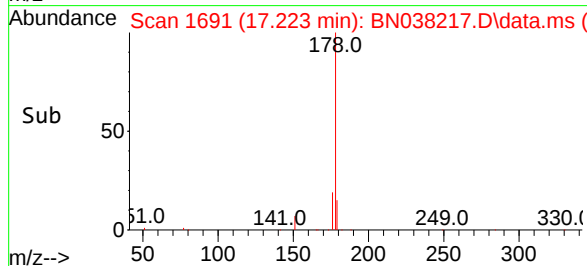
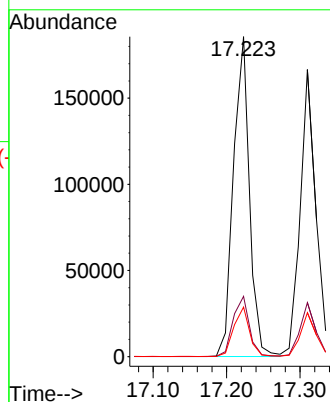
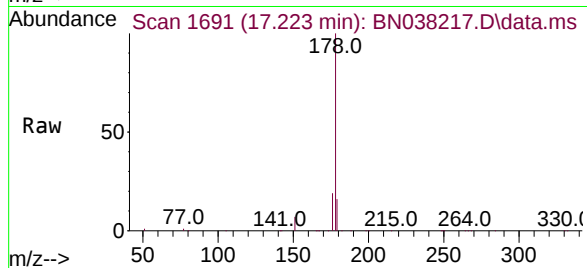
Tgt Ion:178 Resp: 282285

Ion Ratio Lower Upper

178 100

176 19.2 15.3 22.9

179 15.3 12.0 18.0



#26

Anthracene

Concen: 3.453 ng

RT: 17.310 min Scan# 1698

Delta R.T. 0.000 min

Lab File: BN038217.D

Acq: 26 Nov 2025 23:37

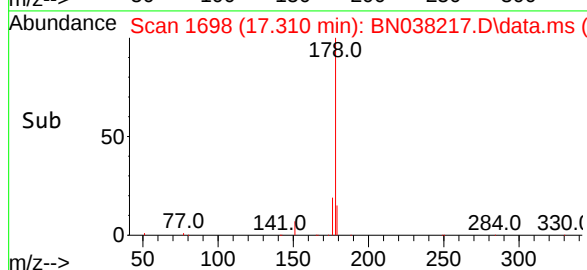
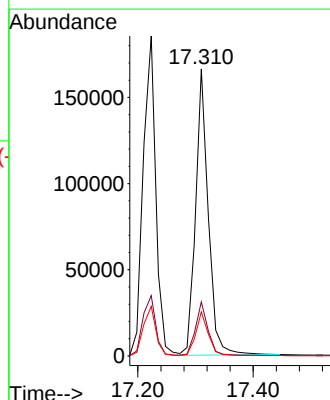
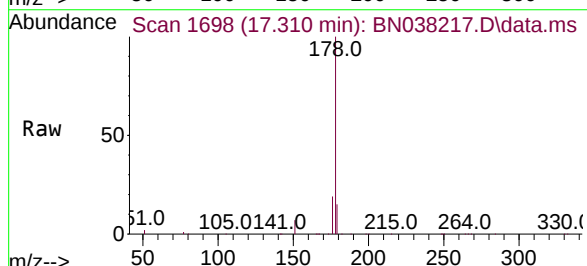
Tgt Ion:178 Resp: 252456

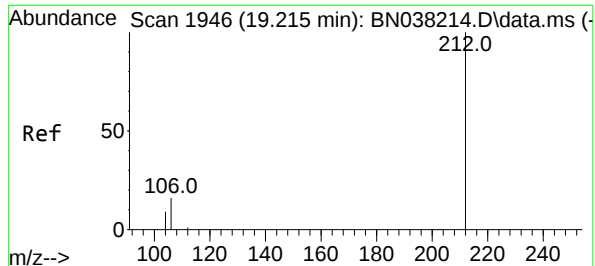
Ion Ratio Lower Upper

178 100

176 18.7 14.7 22.1

179 15.2 12.3 18.5





#27

Fluoranthene-d10

Concen: 3.340 ng

RT: 19.215 min Scan# 1946

Delta R.T. 0.000 min

Lab File: BN038217.D

Acq: 26 Nov 2025 23:37

Instrument :

BNA\_N

ClientSampleId :

SSTDICC3.2

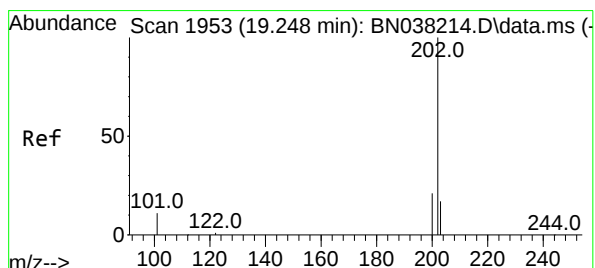
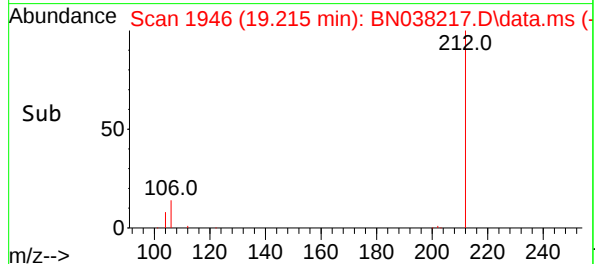
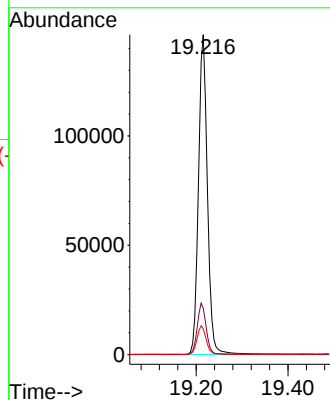
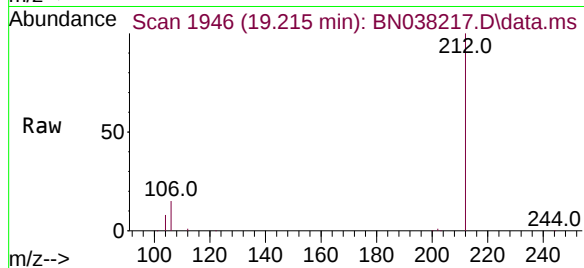
Tgt Ion:212 Resp: 197760

Ion Ratio Lower Upper

212 100

106 16.0 12.7 19.1

104 9.0 7.3 10.9



#28

Fluoranthene

Concen: 3.387 ng

RT: 19.243 min Scan# 1952

Delta R.T. -0.004 min

Lab File: BN038217.D

Acq: 26 Nov 2025 23:37

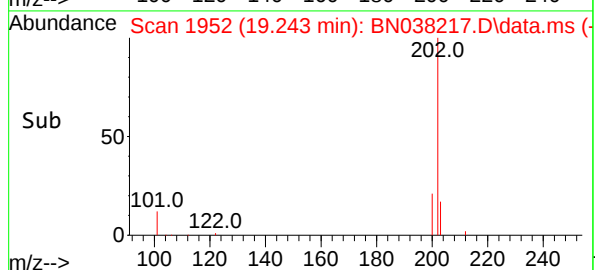
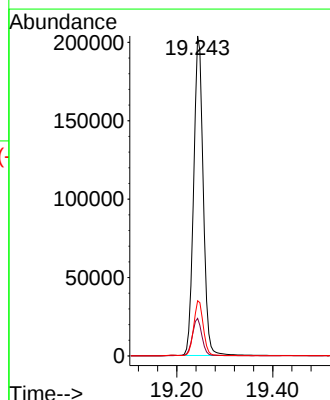
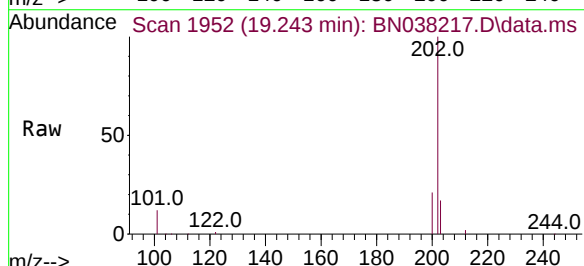
Tgt Ion:202 Resp: 279719

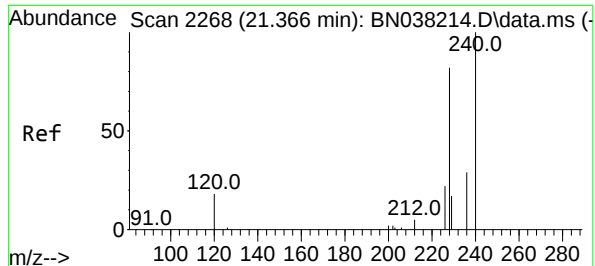
Ion Ratio Lower Upper

202 100

101 11.9 9.8 14.6

203 17.3 13.6 20.4





#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.367 min Scan# 21

Delta R.T. 0.000 min

Lab File: BN038217.D

Acq: 26 Nov 2025 23:37

Instrument :

BNA\_N

ClientSampleId :

SSTDICC3.2

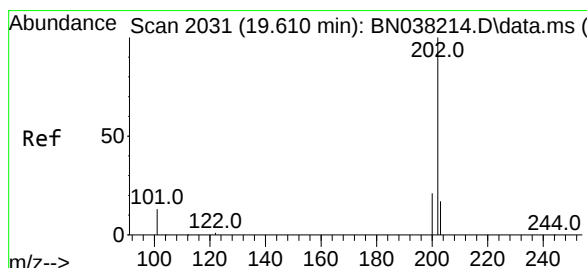
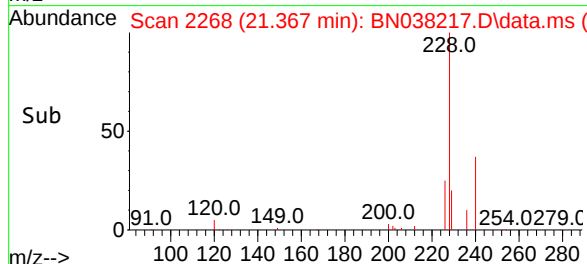
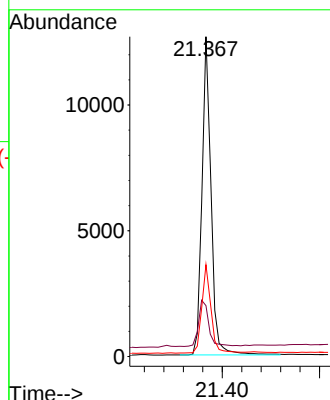
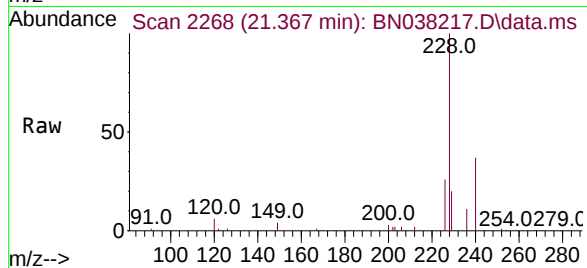
Tgt Ion:240 Resp: 16427

Ion Ratio Lower Upper

240 100

120 15.9 18.1 27.1#

236 28.7 24.2 36.4



#30

Pyrene

Concen: 3.326 ng

RT: 19.606 min Scan# 2030

Delta R.T. -0.004 min

Lab File: BN038217.D

Acq: 26 Nov 2025 23:37

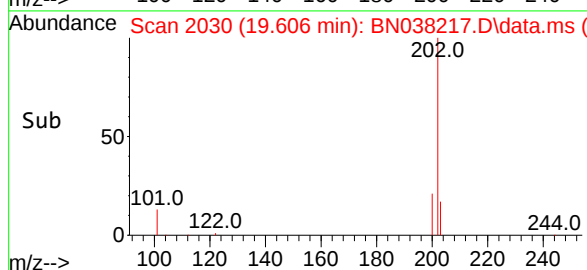
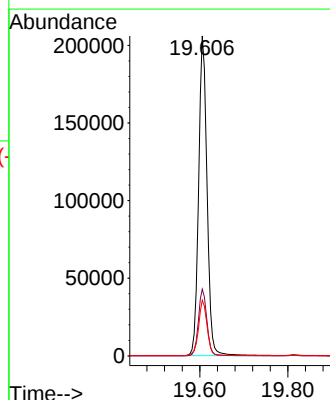
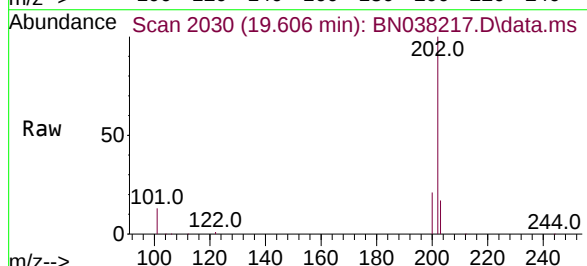
Tgt Ion:202 Resp: 272924

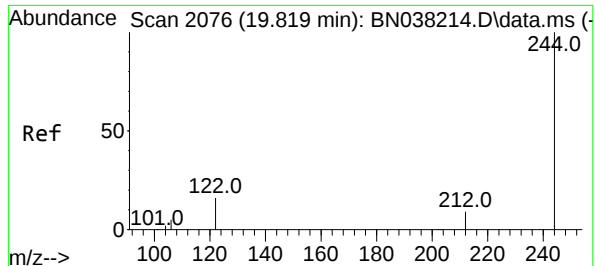
Ion Ratio Lower Upper

202 100

200 21.0 16.8 25.2

203 17.8 14.4 21.6

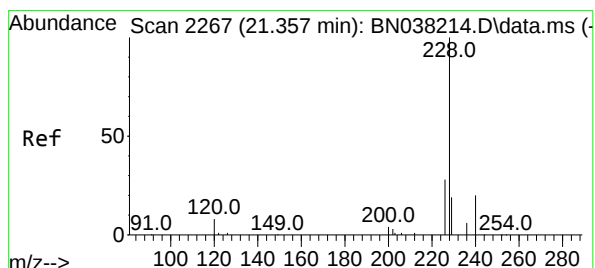
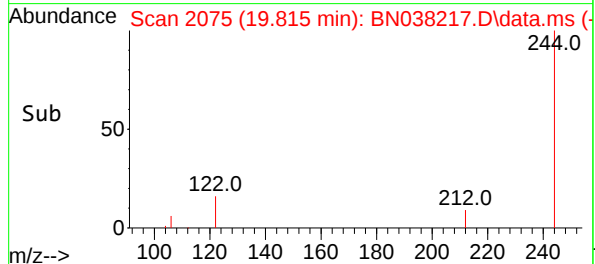
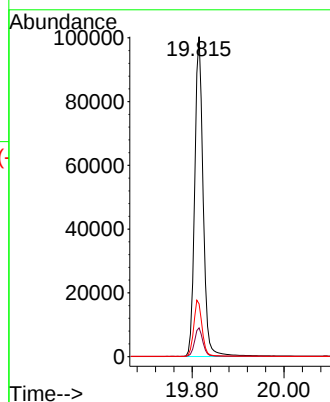
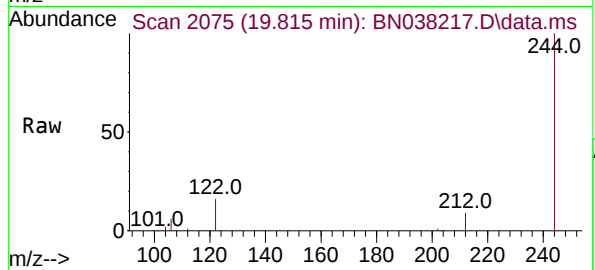




#31  
Terphenyl-d14  
Concen: 3.368 ng  
RT: 19.815 min Scan# 2075  
Delta R.T. -0.004 min  
Lab File: BN038217.D  
Acq: 26 Nov 2025 23:37

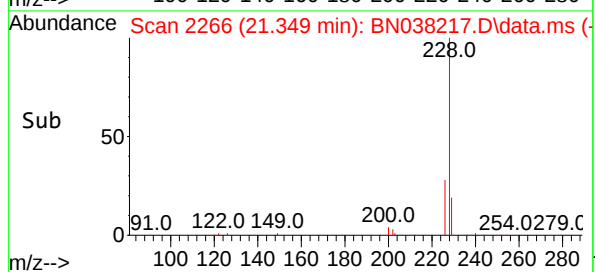
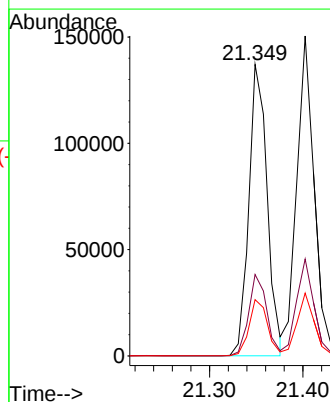
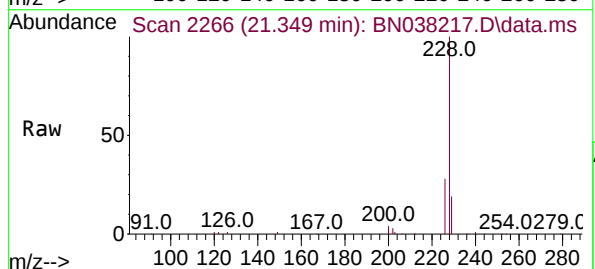
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC3.2

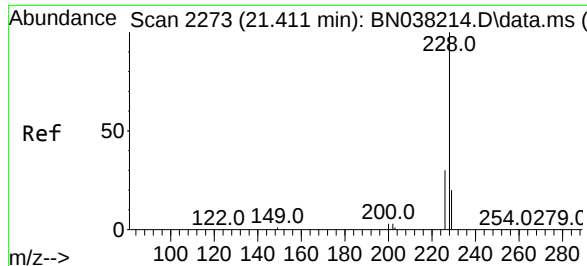
Tgt Ion:244 Resp: 127791  
Ion Ratio Lower Upper  
244 100  
212 9.0 7.7 11.5  
122 16.5 13.6 20.4



#32  
Benzo(a)anthracene  
Concen: 3.357 ng  
RT: 21.349 min Scan# 2266  
Delta R.T. -0.009 min  
Lab File: BN038217.D  
Acq: 26 Nov 2025 23:37

Tgt Ion:228 Resp: 186737  
Ion Ratio Lower Upper  
228 100  
226 27.9 22.6 33.8  
229 19.3 15.8 23.8





#33

Chrysene

Concen: 3.085 ng

RT: 21.402 min Scan# 21

Delta R.T. -0.009 min

Lab File: BN038217.D

Acq: 26 Nov 2025 23:37

Instrument :

BNA\_N

ClientSampleId :

SSTDICC3.2

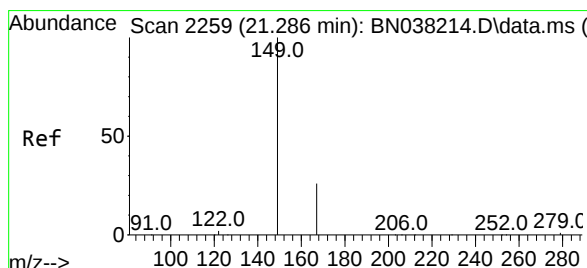
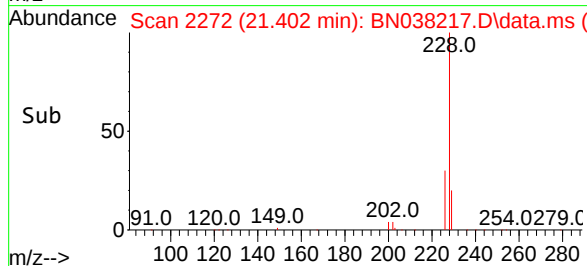
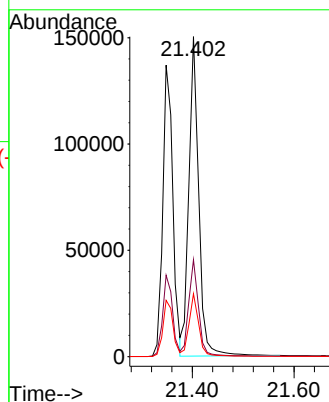
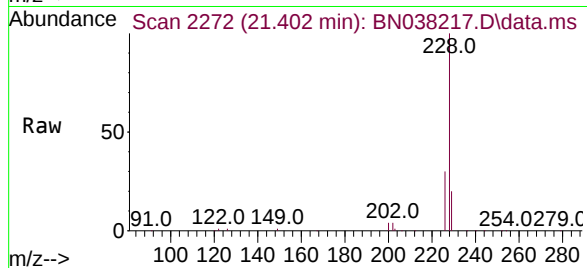
Tgt Ion:228 Resp: 202547

Ion Ratio Lower Upper

228 100

226 30.3 23.8 35.8

229 19.6 16.1 24.1



#34

Bis(2-ethylhexyl)phthalate

Concen: 3.194 ng

RT: 21.286 min Scan# 2259

Delta R.T. 0.000 min

Lab File: BN038217.D

Acq: 26 Nov 2025 23:37

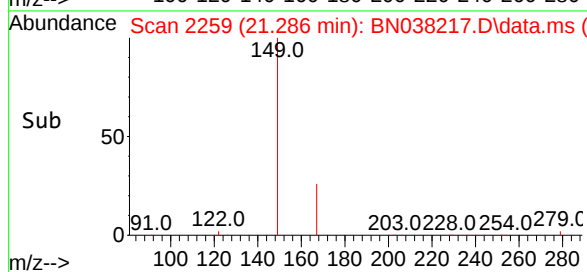
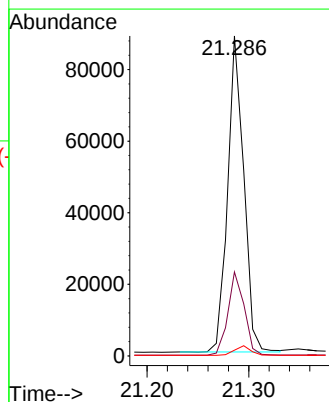
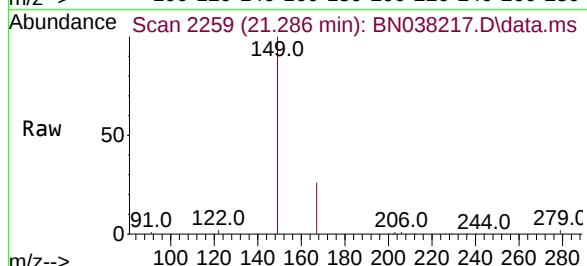
Tgt Ion:149 Resp: 97307

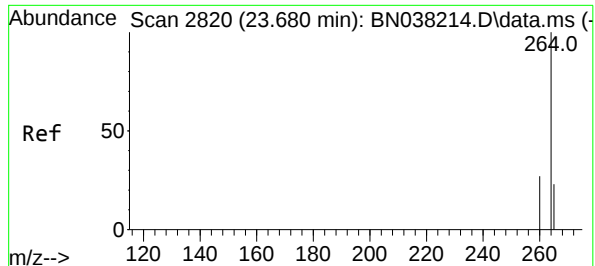
Ion Ratio Lower Upper

149 100

167 26.6 20.7 31.1

279 3.1 2.5 3.7





#35

Perylene-d12

Concen: 0.400 ng

RT: 23.674 min Scan# 2818

Delta R.T. -0.006 min

Lab File: BN038217.D

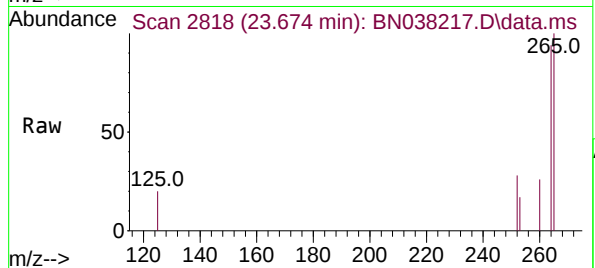
Acq: 26 Nov 2025 23:37

Instrument :

BNA\_N

ClientSampleId :

SSTDICC3.2



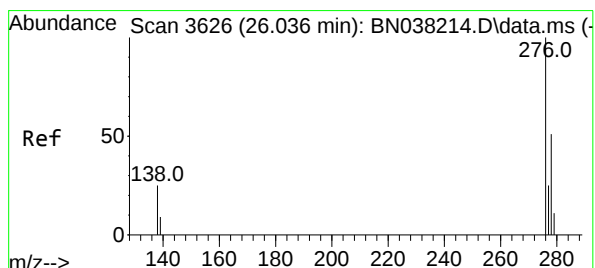
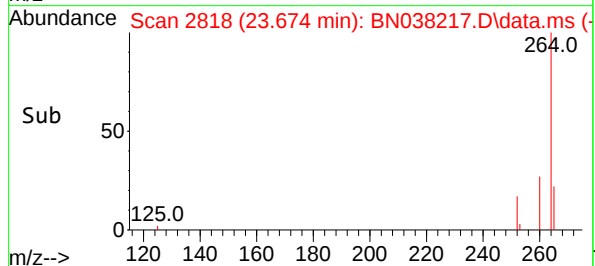
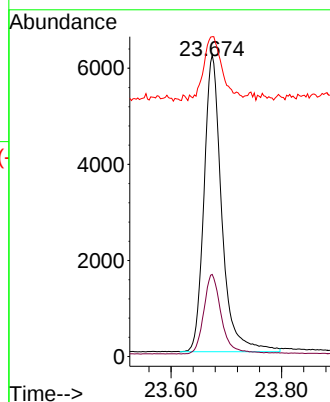
Tgt Ion:264 Resp: 13786

Ion Ratio Lower Upper

264 100

260 27.3 21.7 32.5

265 106.2 98.0 147.0



#36

Indeno(1,2,3-cd)pyrene

Concen: 3.393 ng

RT: 26.025 min Scan# 3622

Delta R.T. -0.011 min

Lab File: BN038217.D

Acq: 26 Nov 2025 23:37

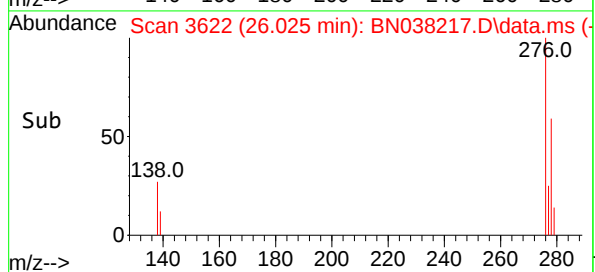
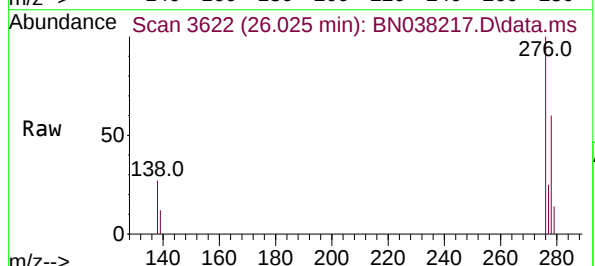
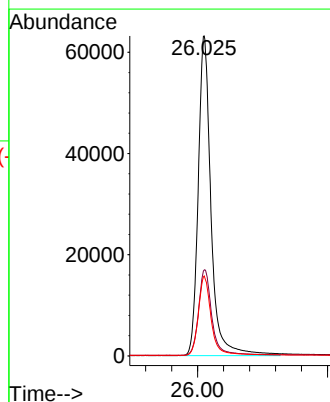
Tgt Ion:276 Resp: 216471

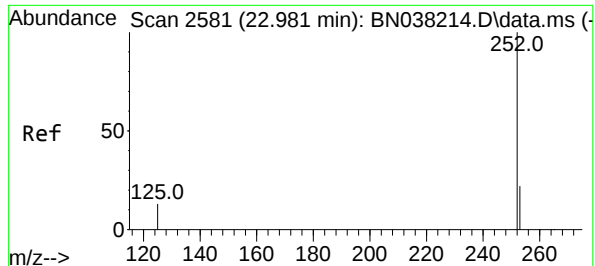
Ion Ratio Lower Upper

276 100

138 27.7 21.4 32.2

277 24.8 19.1 28.7





#37

Benzo(b)fluoranthene

Concen: 3.354 ng

RT: 22.979 min Scan# 21

Delta R.T. -0.003 min

Lab File: BN038217.D

Acq: 26 Nov 2025 23:37

Instrument :

BNA\_N

ClientSampleId :

SSTDICC3.2

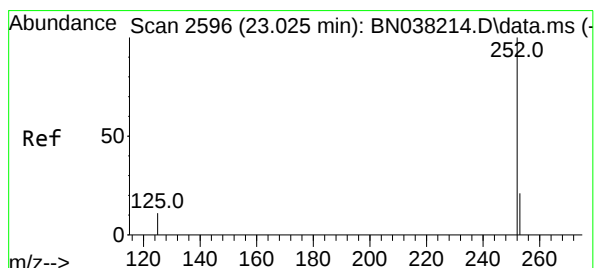
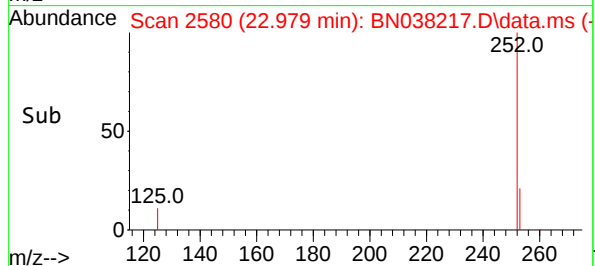
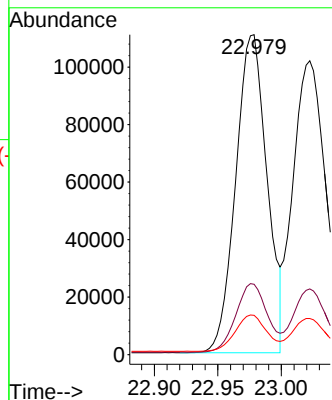
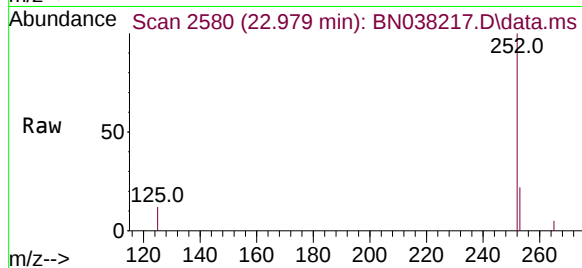
Tgt Ion:252 Resp: 189788

Ion Ratio Lower Upper

252 100

253 22.0 22.2 33.4#

125 12.3 18.0 27.0#



#38

Benzo(k)fluoranthene

Concen: 3.329 ng

RT: 23.022 min Scan# 2595

Delta R.T. -0.003 min

Lab File: BN038217.D

Acq: 26 Nov 2025 23:37

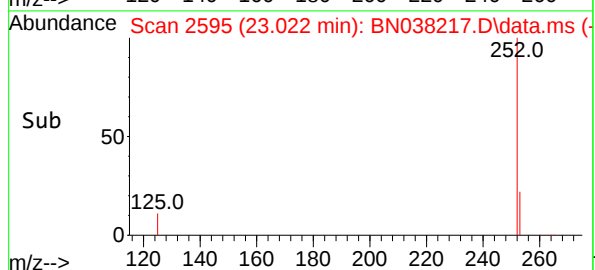
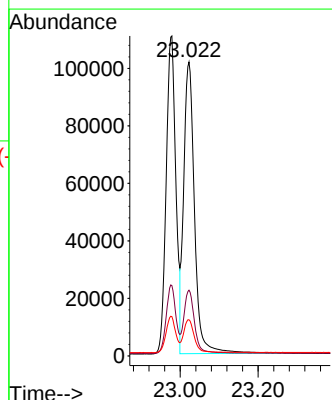
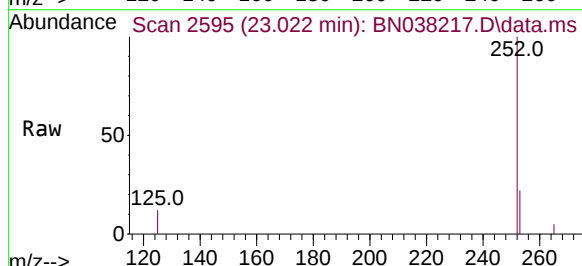
Tgt Ion:252 Resp: 195835

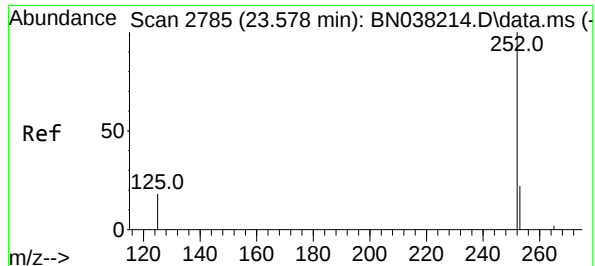
Ion Ratio Lower Upper

252 100

253 22.4 22.4 33.6#

125 12.3 17.5 26.3#





#39

Benzo(a)pyrene

Concen: 3.289 ng

RT: 23.572 min Scan# 21

Delta R.T. -0.006 min

Lab File: BN038217.D

Acq: 26 Nov 2025 23:37

Instrument :

BNA\_N

ClientSampleId :

SSTDICC3.2

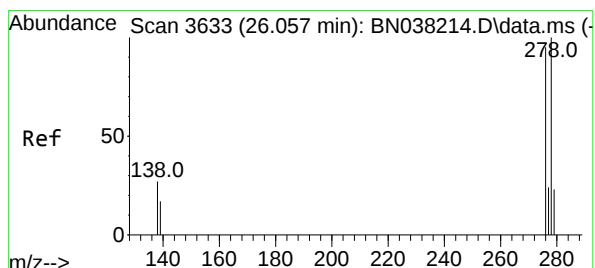
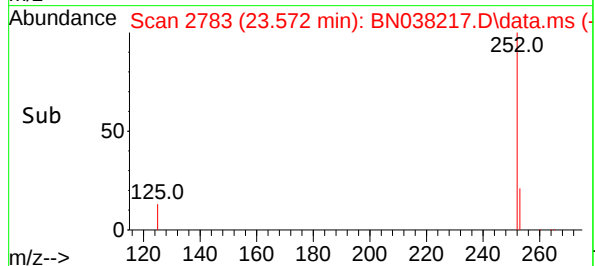
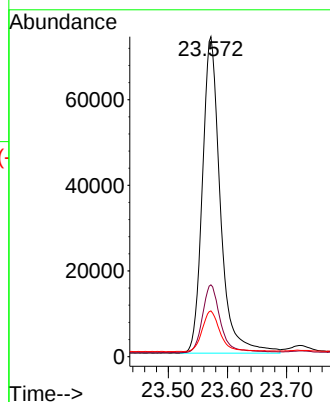
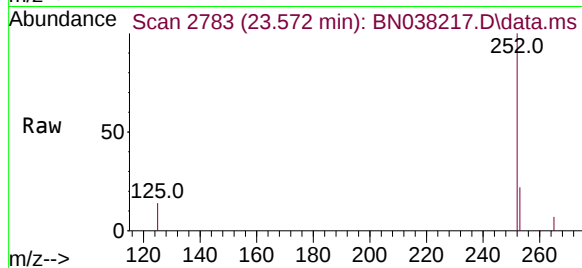
Tgt Ion:252 Resp: 156001

Ion Ratio Lower Upper

252 100

253 22.4 25.3 37.9#

125 14.3 25.2 37.8#



#40

Dibenzo(a,h)anthracene

Concen: 3.518 ng

RT: 26.040 min Scan# 3627

Delta R.T. -0.017 min

Lab File: BN038217.D

Acq: 26 Nov 2025 23:37

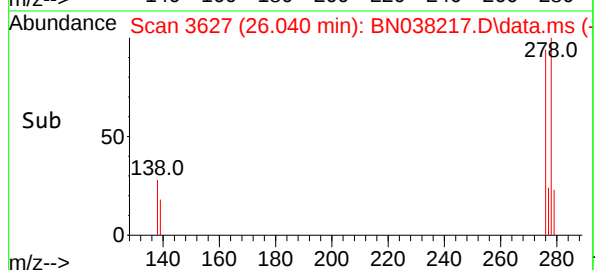
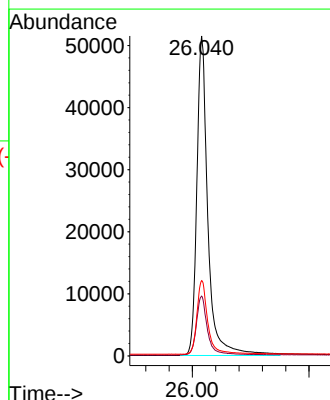
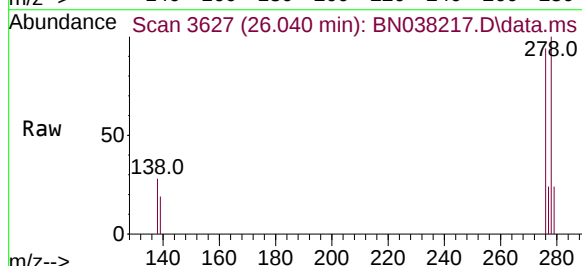
Tgt Ion:278 Resp: 169926

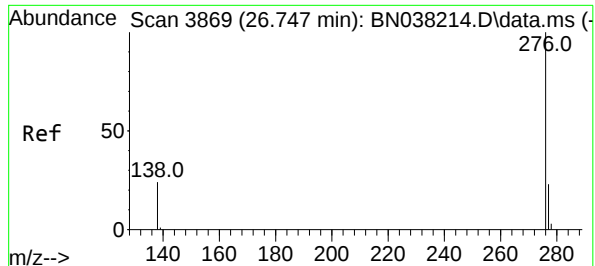
Ion Ratio Lower Upper

278 100

139 18.7 17.6 26.4

279 23.5 24.2 36.4#





#41

Benzo(g,h,i)perylene

Concen: 3.242 ng

RT: 26.738 min Scan# 38

Delta R.T. -0.009 min

Lab File: BN038217.D

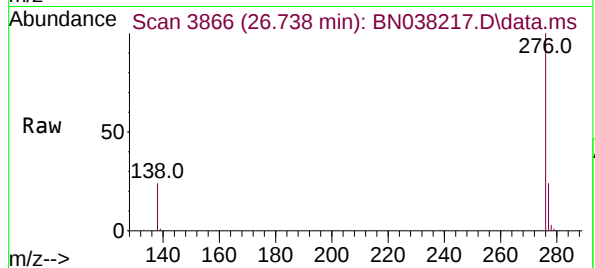
Acq: 26 Nov 2025 23:37

Instrument :

BNA\_N

ClientSampleId :

SSTDICC3.2



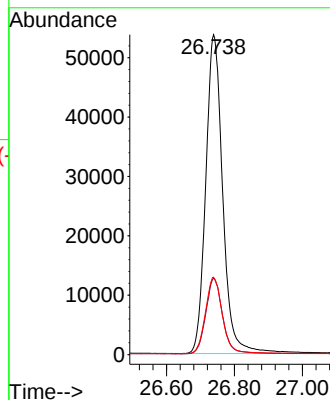
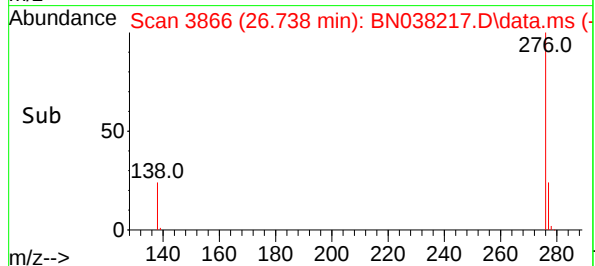
Tgt Ion:276 Resp: 186060

Ion Ratio Lower Upper

276 100

277 23.8 20.2 30.2

138 24.2 20.8 31.2

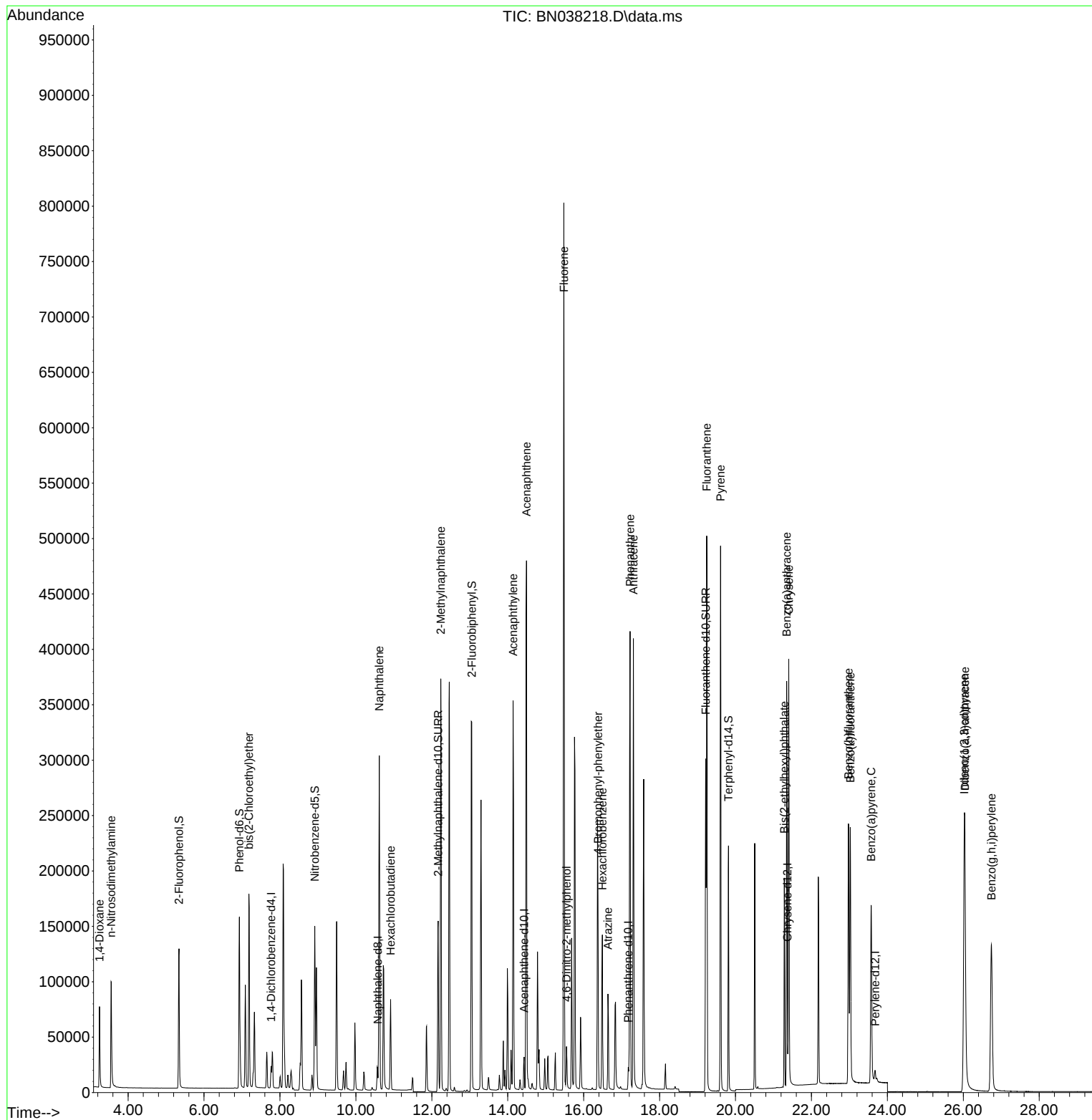


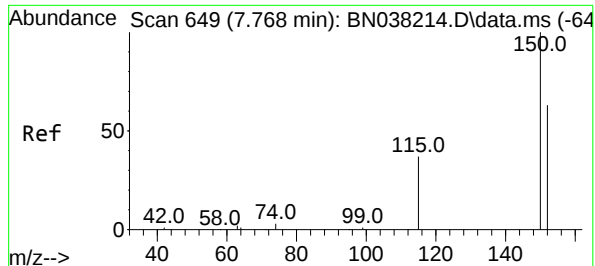


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Data File : BN038218.D  
Acq On : 27 Nov 2025 00:13  
Operator : RC/JU  
Sample : SSTDICC5.0  
Misc :  
ALS Vial : 18 Sample Multiplier: 1

Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC5.0

Quant Time: Nov 28 20:56:11 2025  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\8270-SIM-BN112725.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Fri Nov 28 20:22:09 2025  
Response via : Initial Calibration

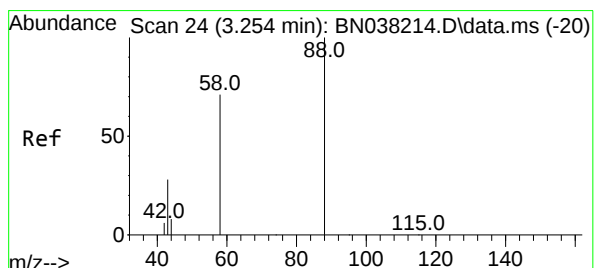
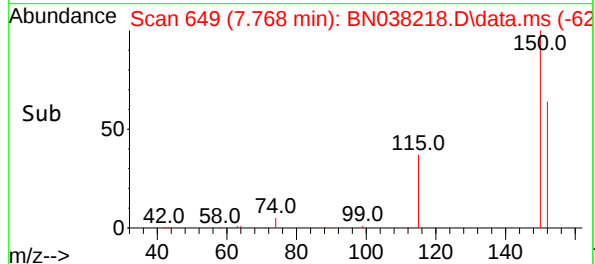
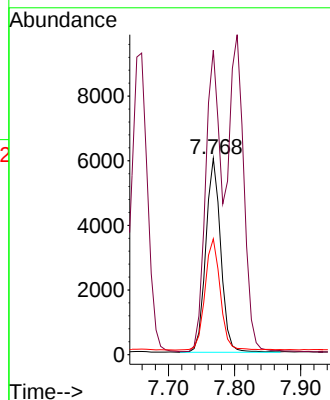
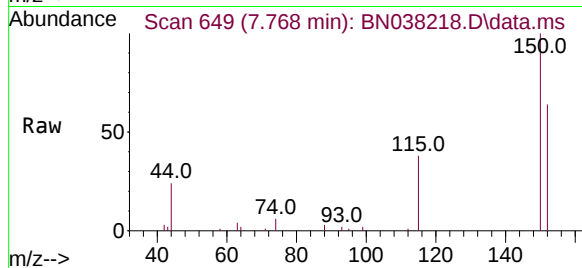




#1  
1,4-Dichlorobenzene-d4  
Concen: 0.400 ng  
RT: 7.768 min Scan# 64  
Delta R.T. -0.000 min  
Lab File: BN038218.D  
Acq: 27 Nov 2025 00:13

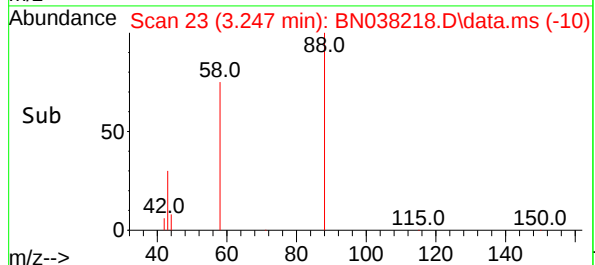
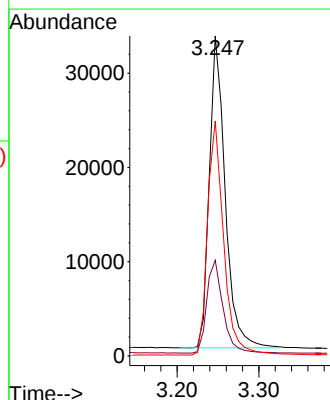
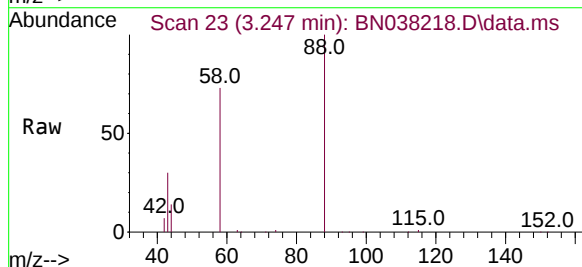
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC5.0

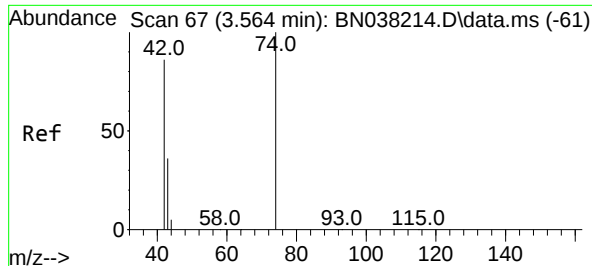
Tgt Ion:152 Resp: 9425  
Ion Ratio Lower Upper  
152 100  
150 155.1 125.3 187.9  
115 58.9 49.0 73.4



#2  
1,4-Dioxane  
Concen: 4.482 ng  
RT: 3.247 min Scan# 23  
Delta R.T. -0.007 min  
Lab File: BN038218.D  
Acq: 27 Nov 2025 00:13

Tgt Ion: 88 Resp: 44504  
Ion Ratio Lower Upper  
88 100  
43 30.5 24.8 37.2  
58 76.3 61.1 91.7

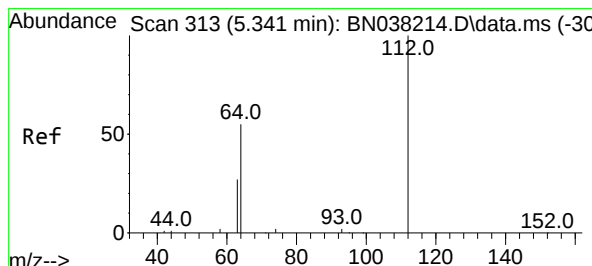
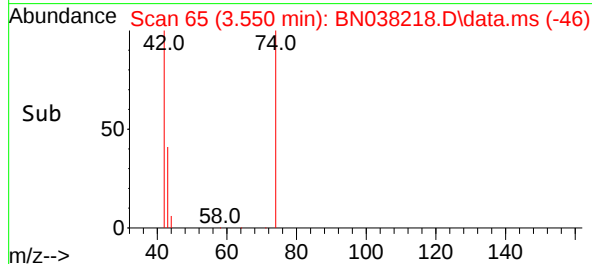
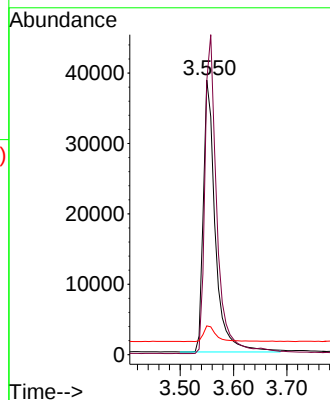
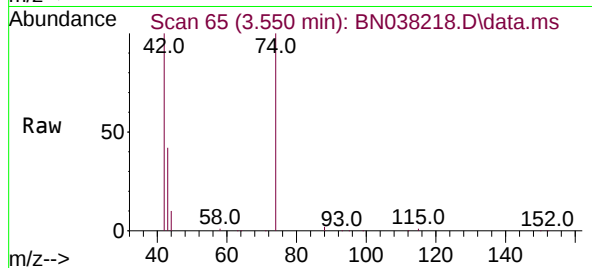




#3  
n-Nitrosodimethylamine  
Concen: 4.904 ng  
RT: 3.550 min Scan# 61  
Delta R.T. -0.014 min  
Lab File: BN038218.D  
Acq: 27 Nov 2025 00:13

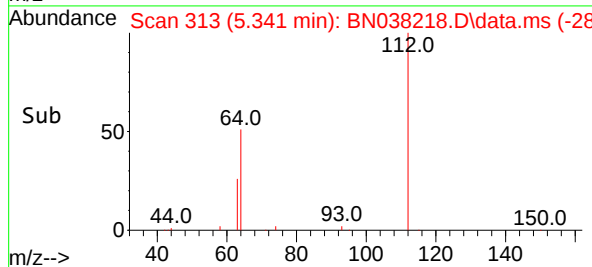
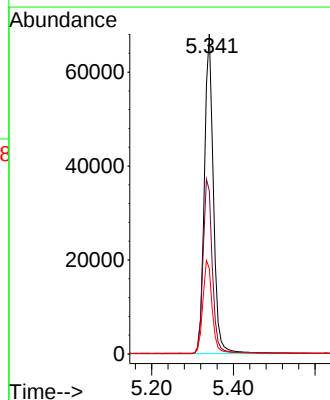
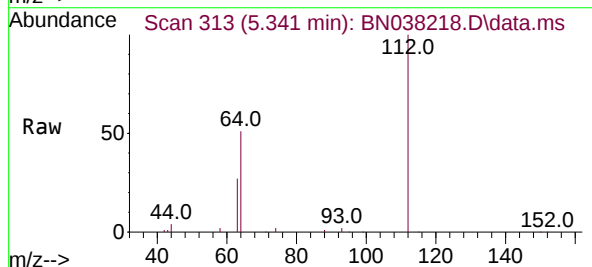
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC5.0

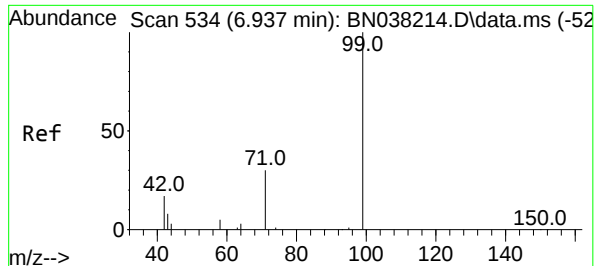
Tgt Ion: 42 Resp: 60047  
Ion Ratio Lower Upper  
42 100  
74 115.5 96.2 144.2  
44 6.0 8.0 12.0#



#4  
2-Fluorophenol  
Concen: 4.772 ng  
RT: 5.341 min Scan# 313  
Delta R.T. 0.000 min  
Lab File: BN038218.D  
Acq: 27 Nov 2025 00:13

Tgt Ion: 112 Resp: 105128  
Ion Ratio Lower Upper  
112 100  
64 56.4 45.0 67.4  
63 29.8 23.2 34.8

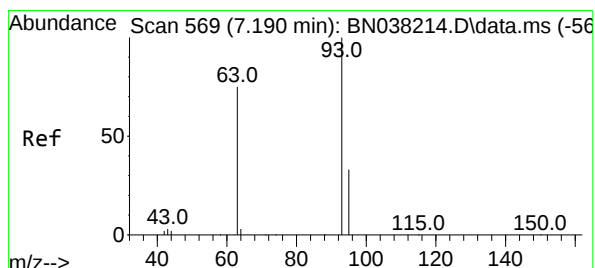
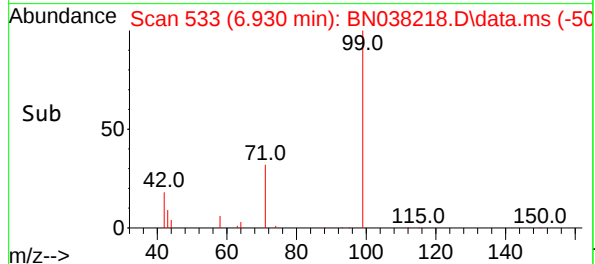
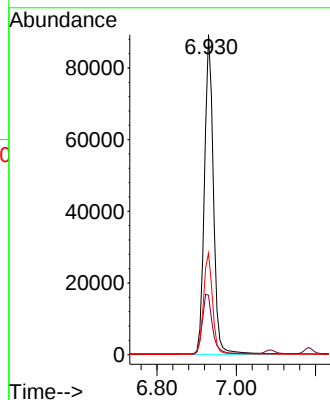
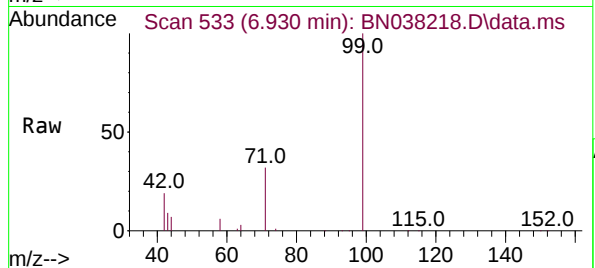




#5  
Phenol-d6  
Concen: 5.096 ng  
RT: 6.930 min Scan# 531  
Delta R.T. -0.007 min  
Lab File: BN038218.D  
Acq: 27 Nov 2025 00:13

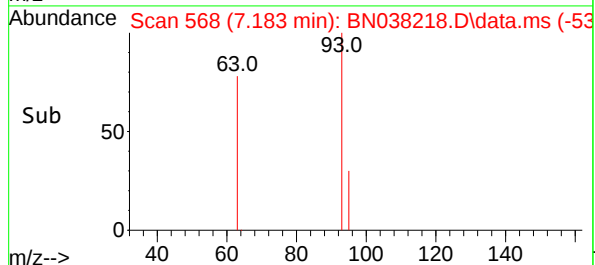
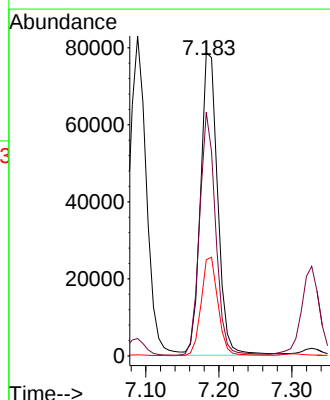
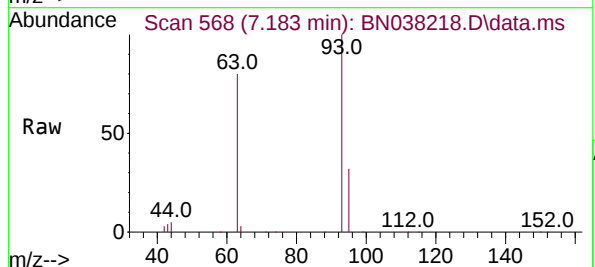
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC5.0

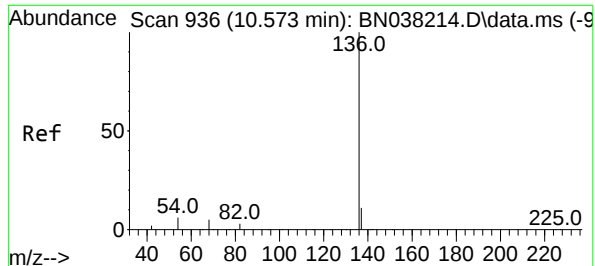
Tgt Ion: 99 Resp: 140266  
Ion Ratio Lower Upper  
99 100  
42 20.9 17.0 25.6  
71 32.1 25.4 38.2



#6  
bis(2-Chloroethyl)ether  
Concen: 4.866 ng  
RT: 7.183 min Scan# 568  
Delta R.T. -0.007 min  
Lab File: BN038218.D  
Acq: 27 Nov 2025 00:13

Tgt Ion: 93 Resp: 128213  
Ion Ratio Lower Upper  
93 100  
63 74.8 58.1 87.1  
95 31.9 25.1 37.7

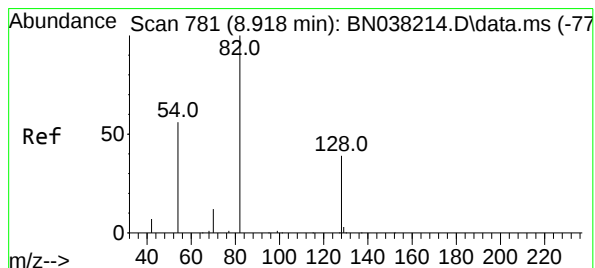
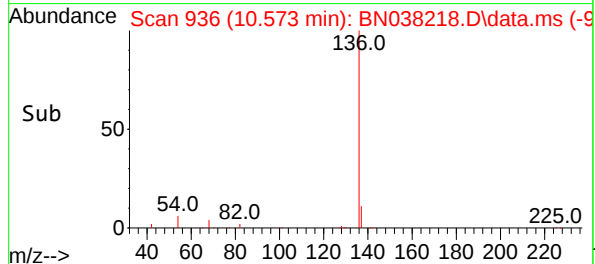
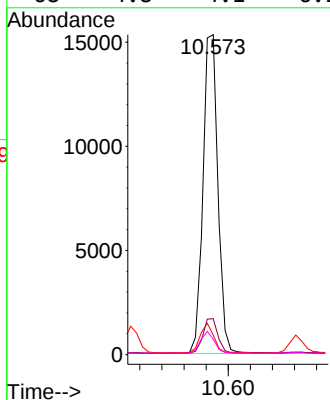
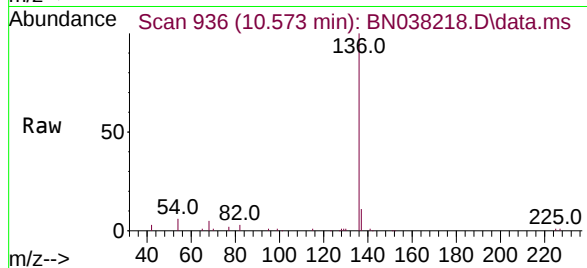




#7  
Naphthalene-d8  
Concen: 0.400 ng  
RT: 10.573 min Scan# 936  
Delta R.T. 0.000 min  
Lab File: BN038218.D  
Acq: 27 Nov 2025 00:13

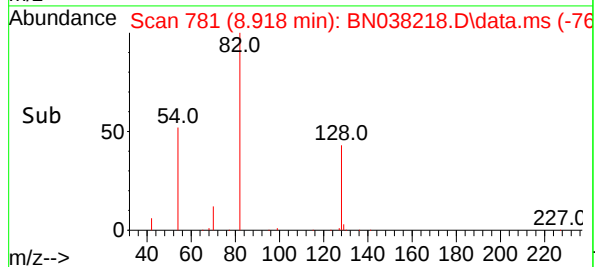
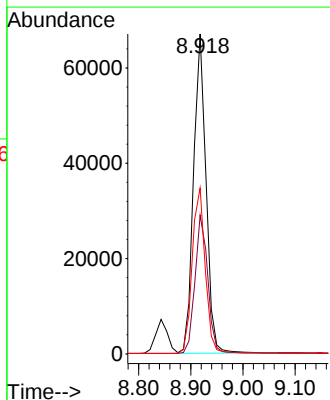
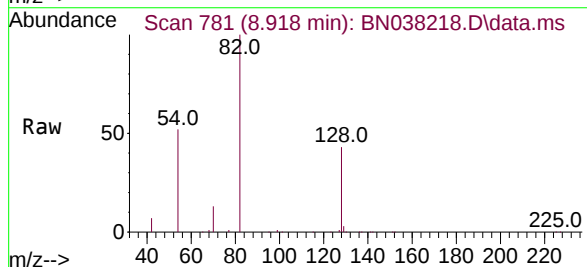
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC5.0

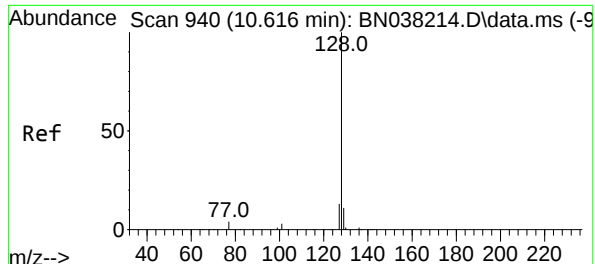
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 136   | Resp: | 28584 |
| Ion      | Ratio | Lower | Upper |
| 136      | 100   |       |       |
| 137      | 11.3  | 8.9   | 13.3  |
| 54       | 6.1   | 5.4   | 8.0   |
| 68       | 4.8   | 4.1   | 6.1   |



#8  
Nitrobenzene-d5  
Concen: 4.861 ng  
RT: 8.918 min Scan# 781  
Delta R.T. 0.000 min  
Lab File: BN038218.D  
Acq: 27 Nov 2025 00:13

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 82    | Resp: | 111113 |
| Ion      | Ratio | Lower | Upper  |
| 82       | 100   |       |        |
| 128      | 43.4  | 32.6  | 48.8   |
| 54       | 51.8  | 45.4  | 68.0   |

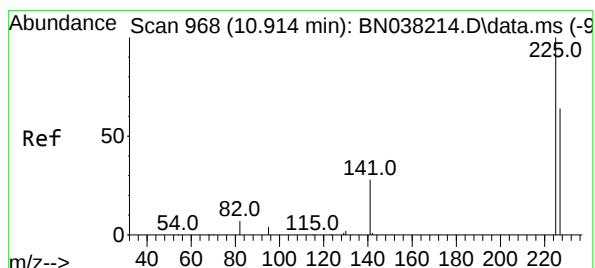
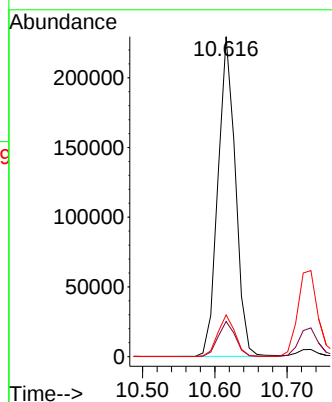
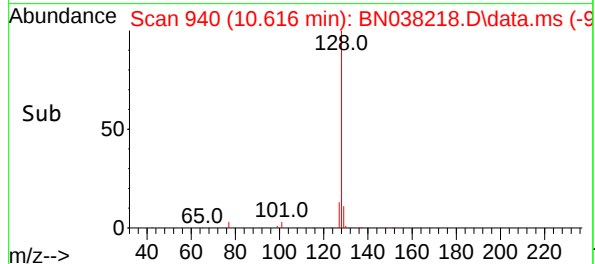
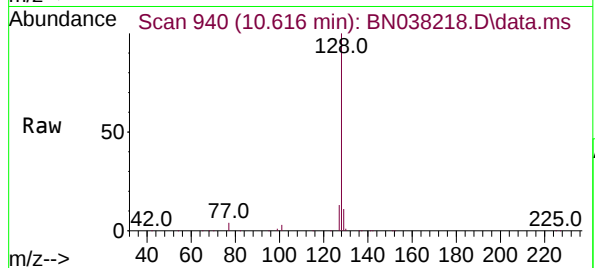




#9  
Naphthalene  
Concen: 4.869 ng  
RT: 10.616 min Scan# 940  
Delta R.T. 0.000 min  
Lab File: BN038218.D  
Acq: 27 Nov 2025 00:13

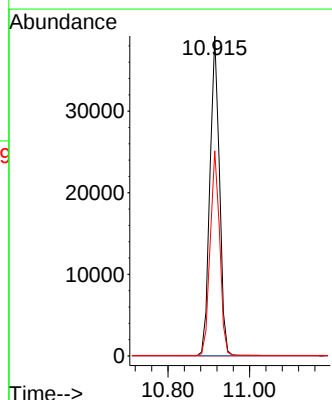
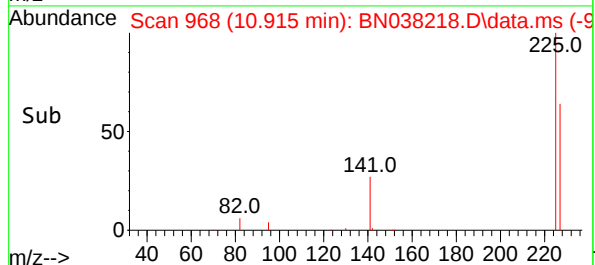
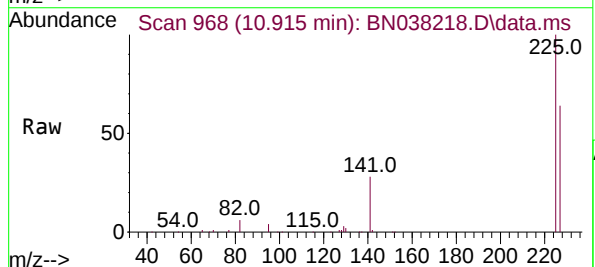
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC5.0

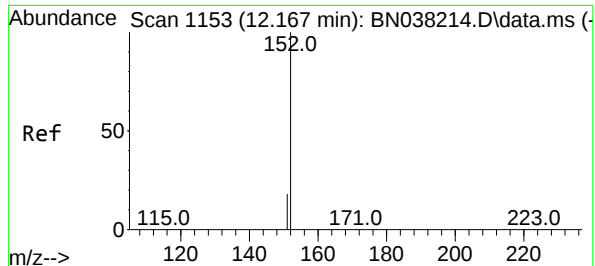
Tgt Ion:128 Resp: 386463  
Ion Ratio Lower Upper  
128 100  
129 11.0 9.1 13.7  
127 13.0 10.6 16.0



#10  
Hexachlorobutadiene  
Concen: 4.675 ng  
RT: 10.915 min Scan# 968  
Delta R.T. 0.000 min  
Lab File: BN038218.D  
Acq: 27 Nov 2025 00:13

Tgt Ion:225 Resp: 63118  
Ion Ratio Lower Upper  
225 100  
223 0.0 0.0 0.0  
227 64.0 50.5 75.7

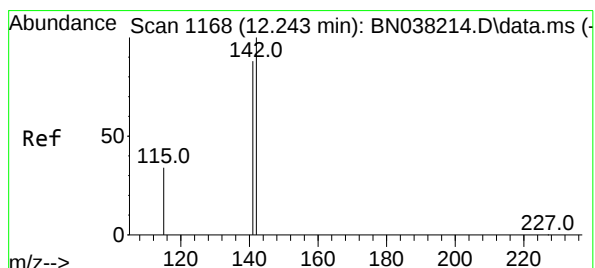
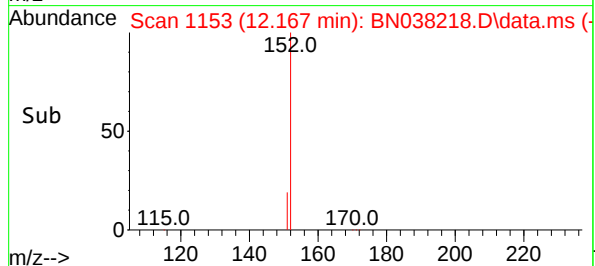
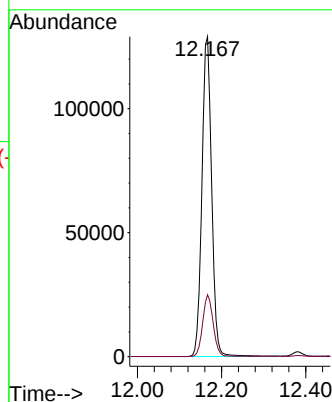
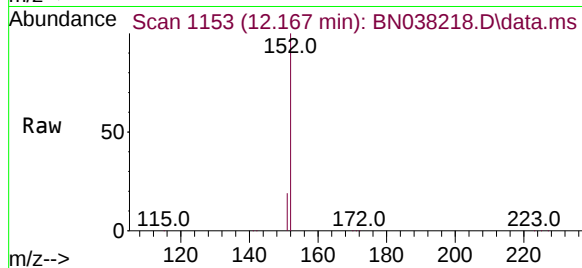




#11  
2-Methylnaphthalene-d10  
Concen: 5.096 ng  
RT: 12.167 min Scan# 1153  
Delta R.T. 0.000 min  
Lab File: BN038218.D  
Acq: 27 Nov 2025 00:13

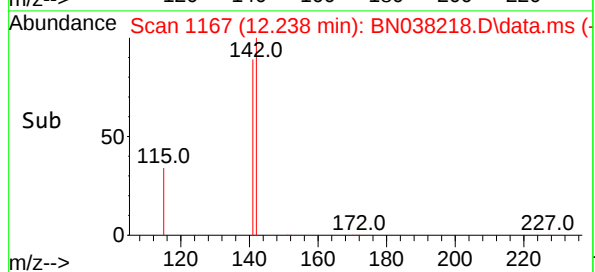
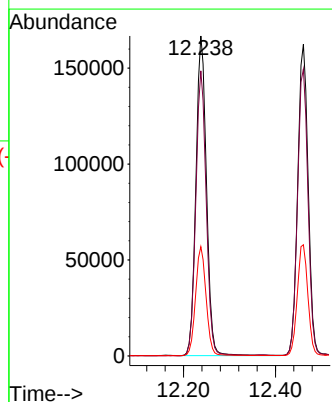
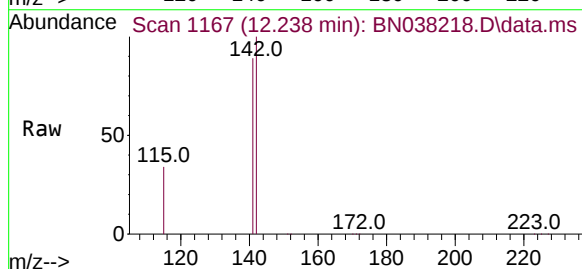
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC5.0

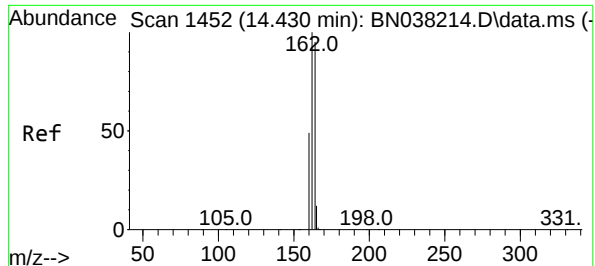
Tgt Ion:152 Resp: 206762  
Ion Ratio Lower Upper  
152 100  
151 20.8 16.7 25.1



#12  
2-Methylnaphthalene  
Concen: 5.069 ng  
RT: 12.238 min Scan# 1167  
Delta R.T. -0.005 min  
Lab File: BN038218.D  
Acq: 27 Nov 2025 00:13

Tgt Ion:142 Resp: 264783  
Ion Ratio Lower Upper  
142 100  
141 89.1 70.9 106.3  
115 34.1 27.7 41.5

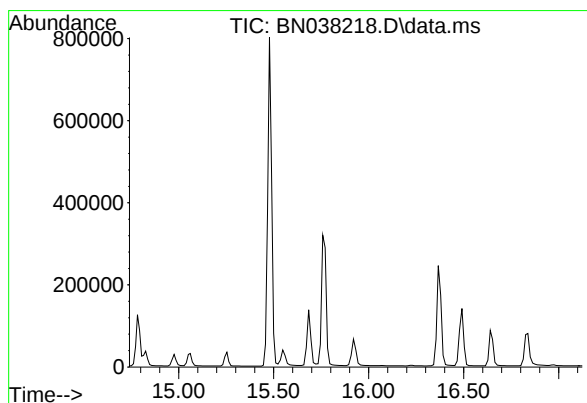
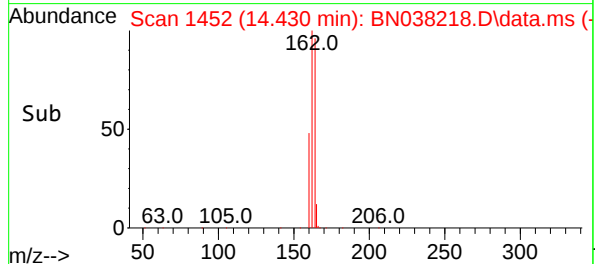
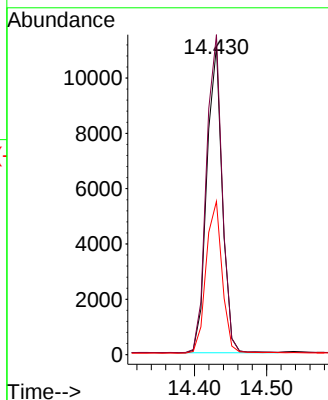
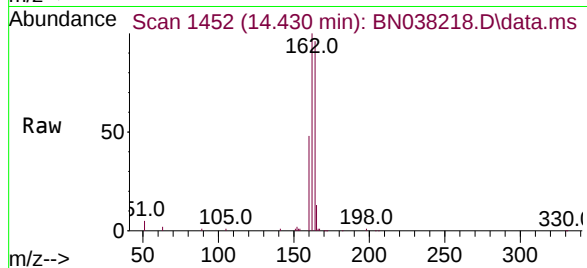




#13  
Acenaphthene-d10  
Concen: 0.400 ng  
RT: 14.430 min Scan# 14  
Delta R.T. 0.000 min  
Lab File: BN038218.D  
Acq: 27 Nov 2025 00:13

Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC5.0

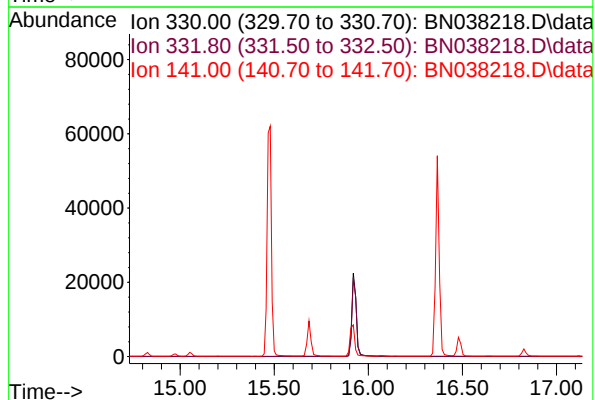
| Tgt Ion | 164   | Resp  | 16460 |
|---------|-------|-------|-------|
| Ion     | Ratio | Lower | Upper |
| 164     | 100   |       |       |
| 162     | 103.8 | 83.8  | 125.8 |
| 160     | 49.7  | 41.6  | 62.4  |

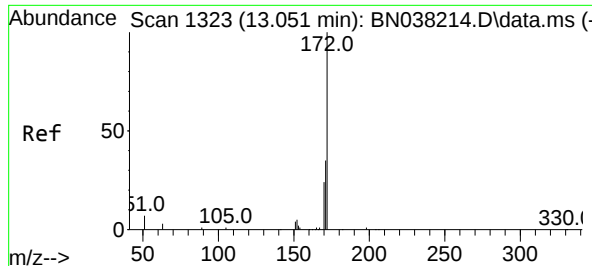


#14  
2,4,6-Tribromophenol  
Concen: 0.000 ng  
Expected RT: 15.93 min

Lab File: BN038218.D  
Acq: 27 Nov 2025 00:13

| Tgt Ion | 330       |
|---------|-----------|
| Sig     | Exp Ratio |
| 330     | 100       |
| 332     | 97.2      |
| 141     | 41.2      |





#15

2-Fluorobiphenyl

Concen: 4.720 ng

RT: 13.051 min Scan# 1323

Delta R.T. 0.000 min

Lab File: BN038218.D

Acq: 27 Nov 2025 00:13

Instrument :

BNA\_N

ClientSampleId :

SSTDICC5.0

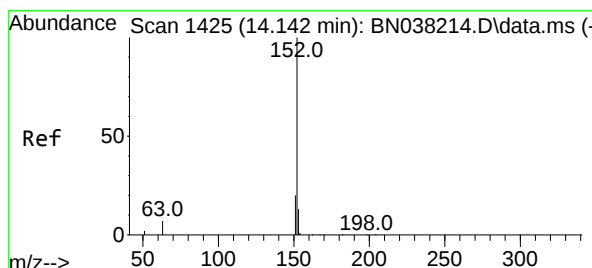
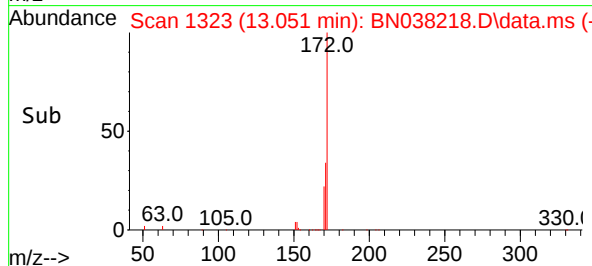
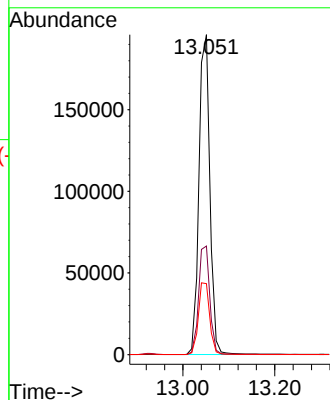
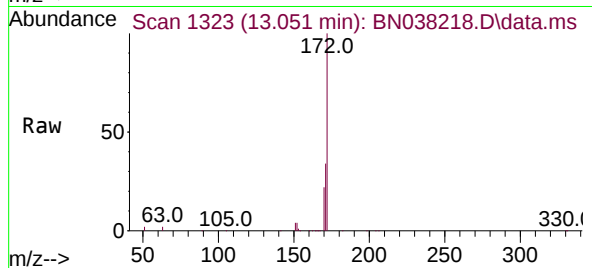
Tgt Ion:172 Resp: 300119

Ion Ratio Lower Upper

172 100

171 33.9 28.1 42.1

170 22.2 19.1 28.7



#16

Acenaphthylene

Concen: 5.255 ng

RT: 14.142 min Scan# 1425

Delta R.T. 0.000 min

Lab File: BN038218.D

Acq: 27 Nov 2025 00:13

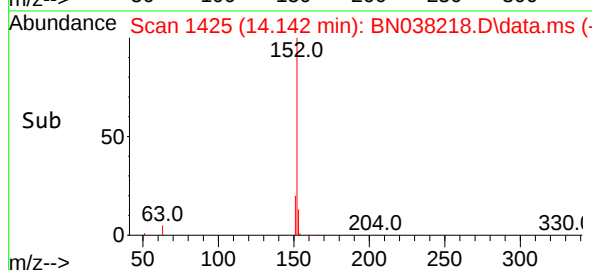
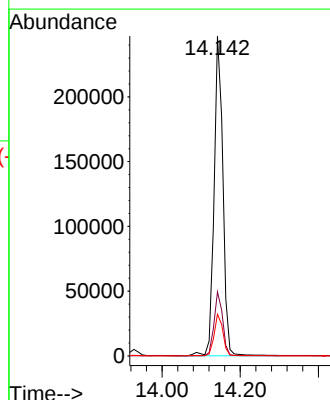
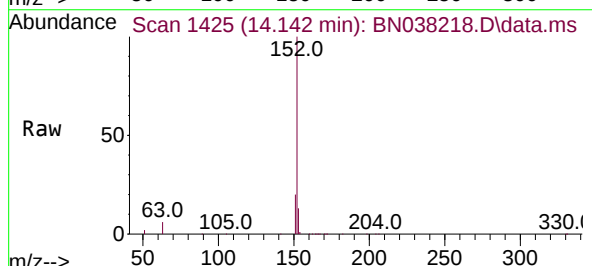
Tgt Ion:152 Resp: 386815

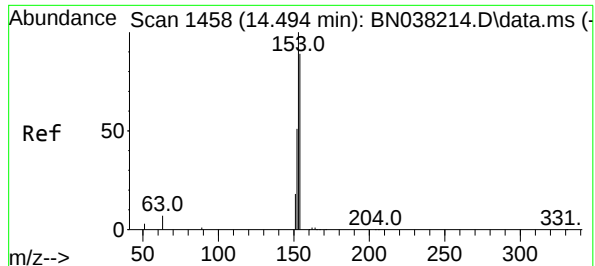
Ion Ratio Lower Upper

152 100

151 19.6 15.6 23.4

153 13.1 10.6 15.8

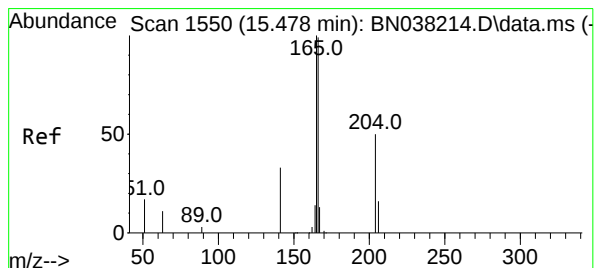
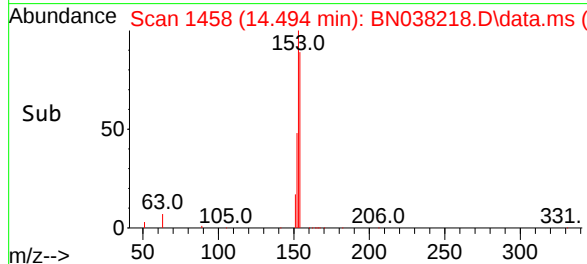
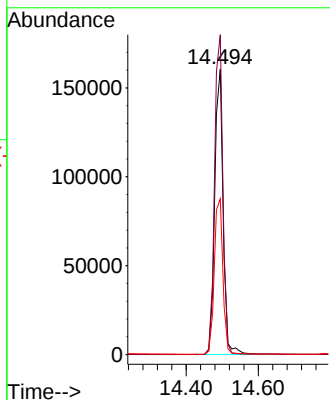
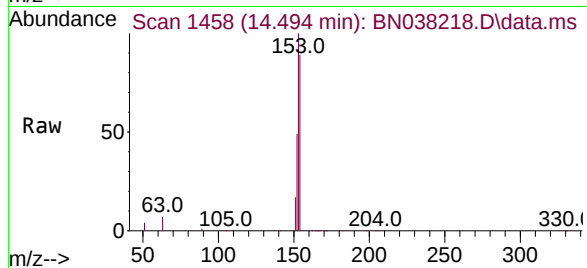




#17  
Acenaphthene  
Concen: 5.054 ng  
RT: 14.494 min Scan# 1458  
Delta R.T. 0.000 min  
Lab File: BN038218.D  
Acq: 27 Nov 2025 00:13

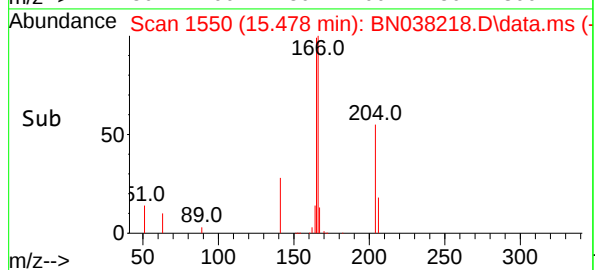
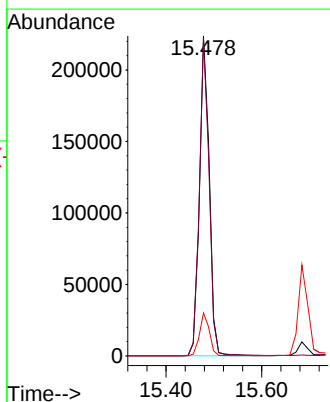
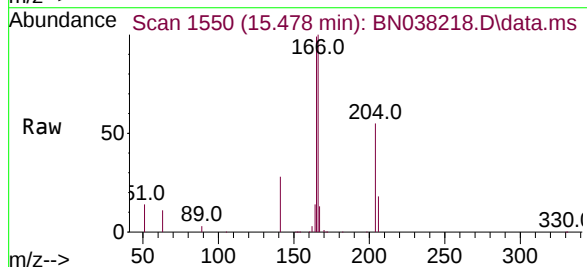
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC5.0

Tgt Ion:154 Resp: 259349  
Ion Ratio Lower Upper  
154 100  
153 111.4 91.1 136.7  
152 56.0 48.2 72.2

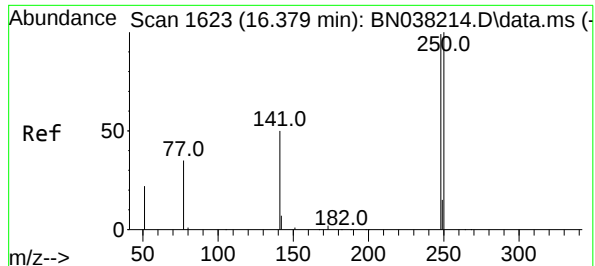


#18  
Fluorene  
Concen: 5.275 ng  
RT: 15.478 min Scan# 1550  
Delta R.T. -0.000 min  
Lab File: BN038218.D  
Acq: 27 Nov 2025 00:13

Tgt Ion:166 Resp: 350358  
Ion Ratio Lower Upper  
166 100  
165 97.2 78.7 118.1  
167 13.3 10.9 16.3



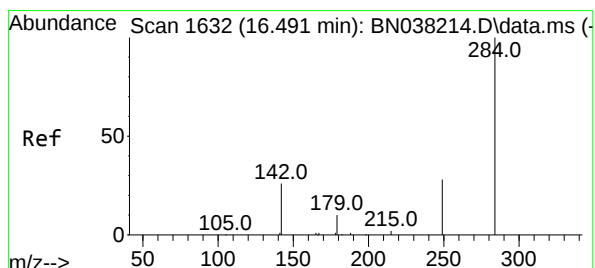
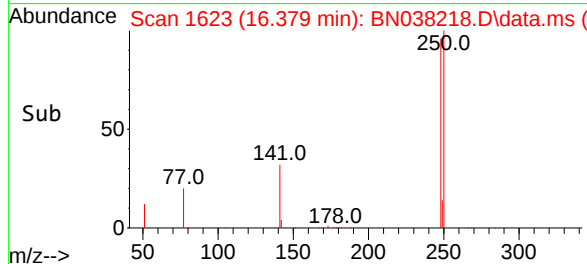
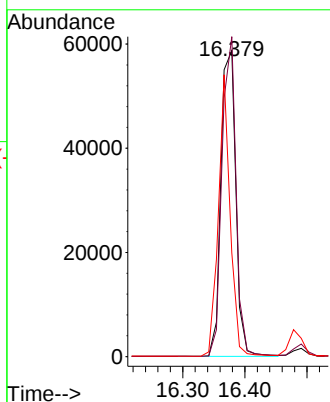
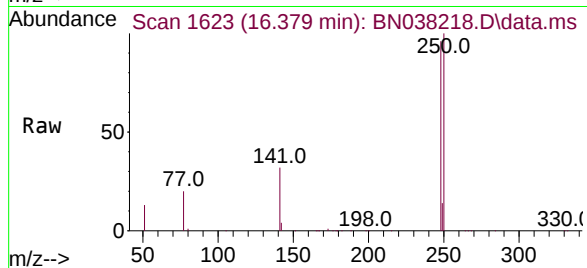




#21  
4-Bromophenyl-phenylether  
Concen: 5.044 ng  
RT: 16.379 min Scan# 1623  
Delta R.T. 0.000 min  
Lab File: BN038218.D  
Acq: 27 Nov 2025 00:13

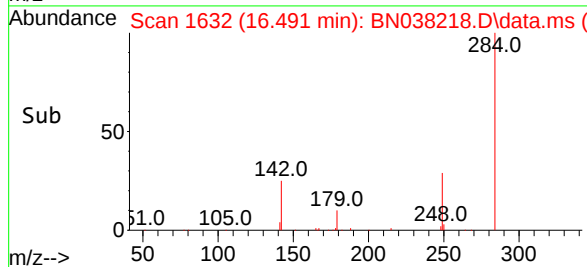
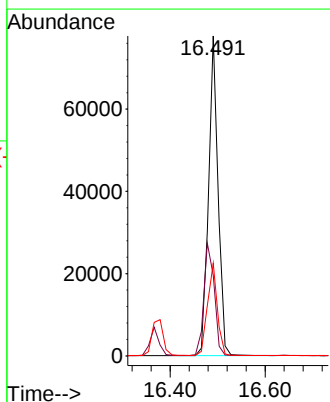
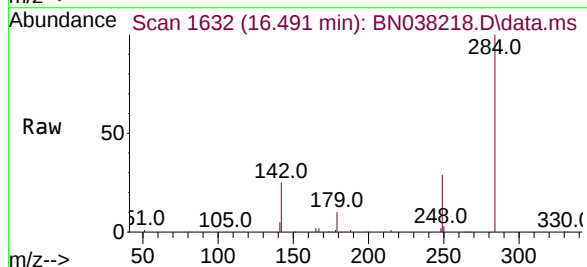
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC5.0

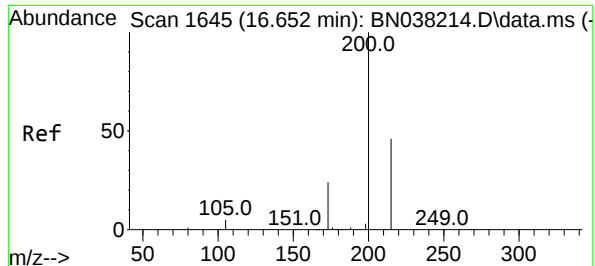
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 248     | 100   |       |       |
| 250     | 104.5 | 80.8  | 121.2 |
| 141     | 33.9  | 41.0  | 61.6# |



#22  
Hexachlorobenzene  
Concen: 4.503 ng  
RT: 16.491 min Scan# 1632  
Delta R.T. 0.000 min  
Lab File: BN038218.D  
Acq: 27 Nov 2025 00:13

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 284     | 100   |       |       |
| 142     | 38.3  | 30.5  | 45.7  |
| 249     | 29.7  | 23.8  | 35.8  |





#23

Atrazine

Concen: 5.642 ng

RT: 16.640 min Scan# 1644

Delta R.T. -0.012 min

Lab File: BN038218.D

Acq: 27 Nov 2025 00:13

Instrument :

BNA\_N

ClientSampleId :

SSTDICC5.0

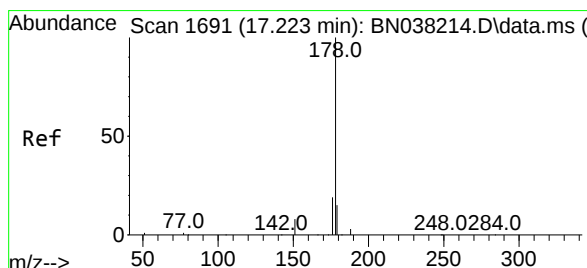
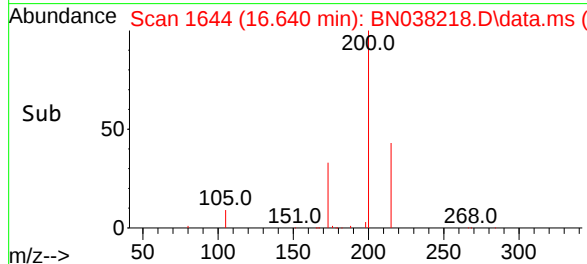
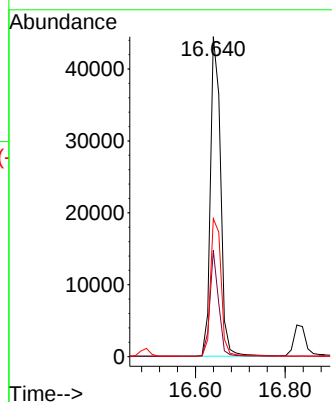
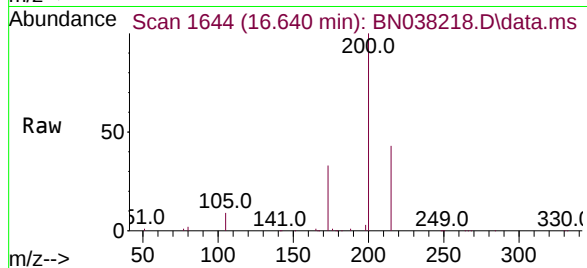
Tgt Ion:200 Resp: 70335

Ion Ratio Lower Upper

200 100

173 33.2 21.0 31.6#

215 43.2 37.8 56.8



#25

Phenanthrene

Concen: 5.011 ng

RT: 17.223 min Scan# 1691

Delta R.T. 0.000 min

Lab File: BN038218.D

Acq: 27 Nov 2025 00:13

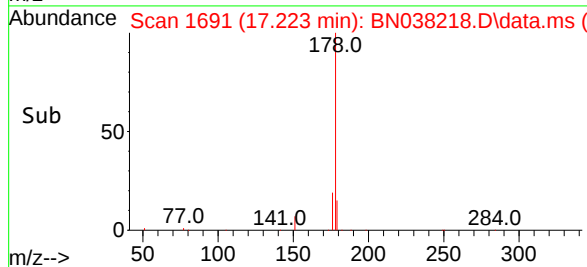
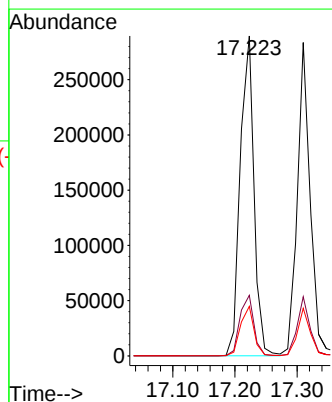
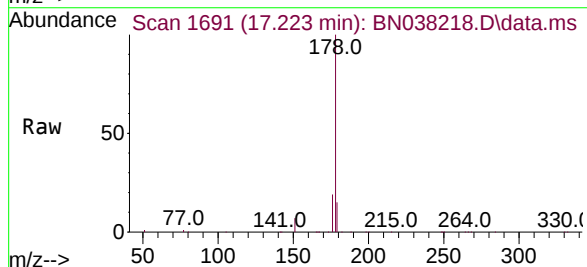
Tgt Ion:178 Resp: 443212

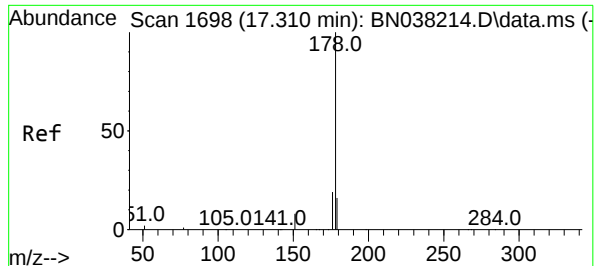
Ion Ratio Lower Upper

178 100

176 19.3 15.3 22.9

179 15.2 12.0 18.0

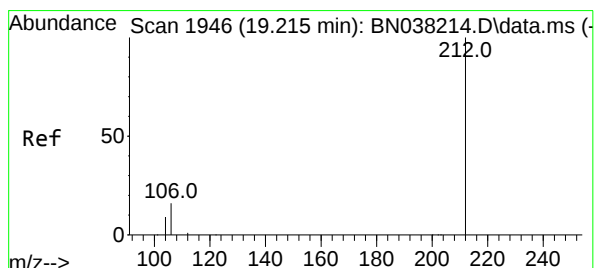
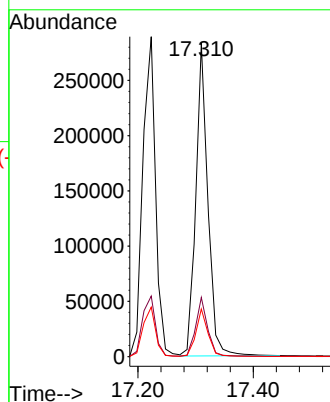
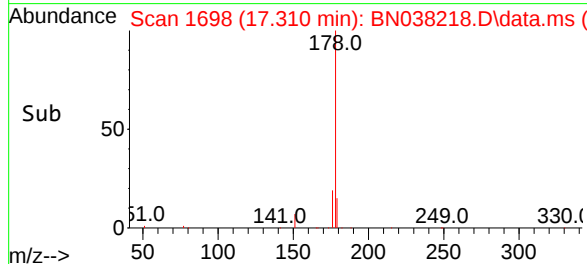
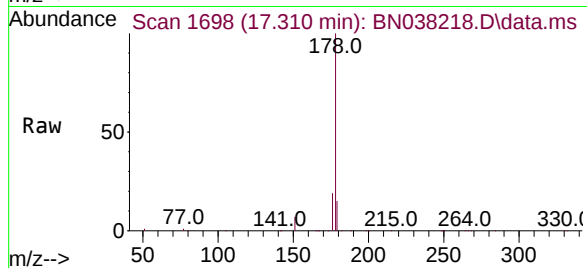




#26  
Anthracene  
Concen: 5.443 ng  
RT: 17.310 min Scan# 1698  
Delta R.T. 0.000 min  
Lab File: BN038218.D  
Acq: 27 Nov 2025 00:13

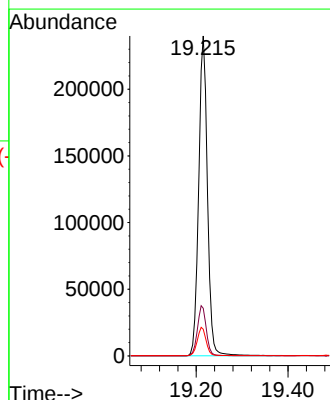
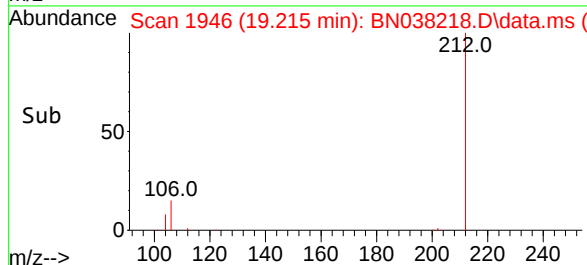
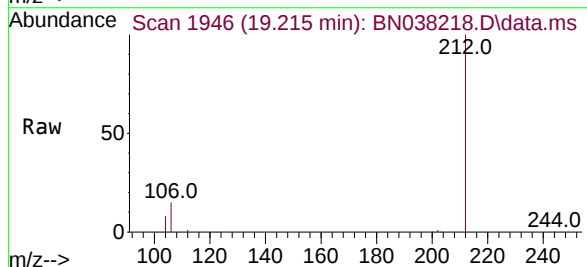
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC5.0

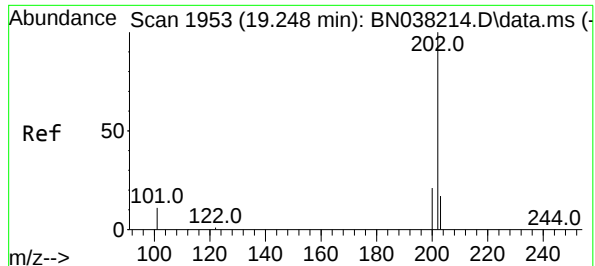
Tgt Ion:178 Resp: 410739  
Ion Ratio Lower Upper  
178 100  
176 18.8 14.7 22.1  
179 15.2 12.3 18.5



#27  
Fluoranthene-d10  
Concen: 5.186 ng  
RT: 19.215 min Scan# 1946  
Delta R.T. 0.000 min  
Lab File: BN038218.D  
Acq: 27 Nov 2025 00:13

Tgt Ion:212 Resp: 316915  
Ion Ratio Lower Upper  
212 100  
106 15.8 12.7 19.1  
104 8.9 7.3 10.9

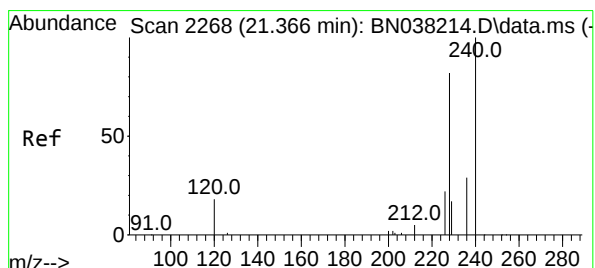
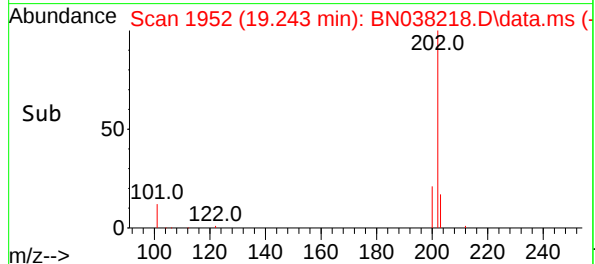
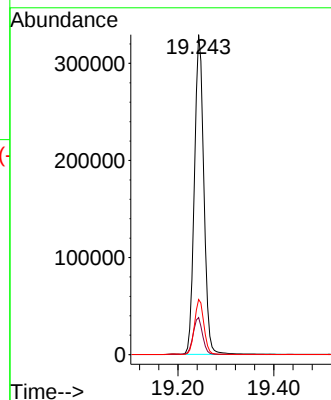
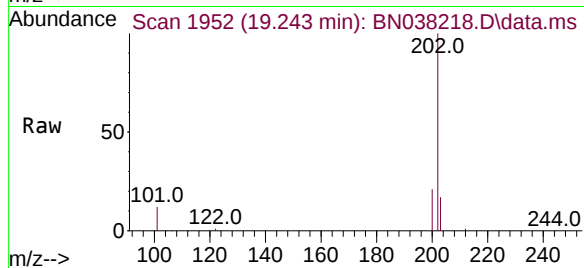




#28  
Fluoranthene  
Concen: 5.231 ng  
RT: 19.243 min Scan# 1952  
Delta R.T. -0.005 min  
Lab File: BN038218.D  
Acq: 27 Nov 2025 00:13

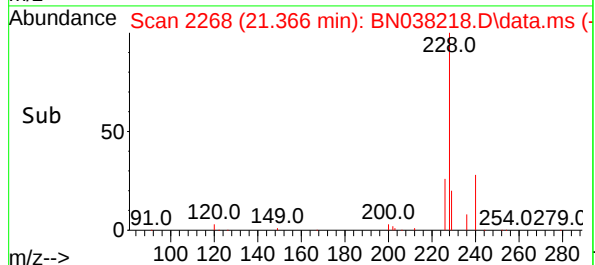
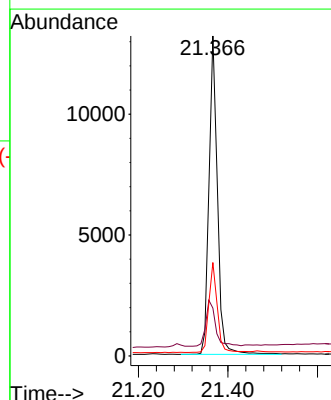
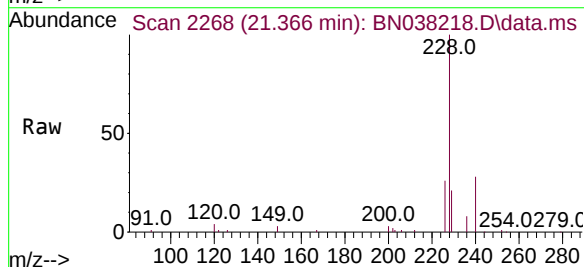
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC5.0

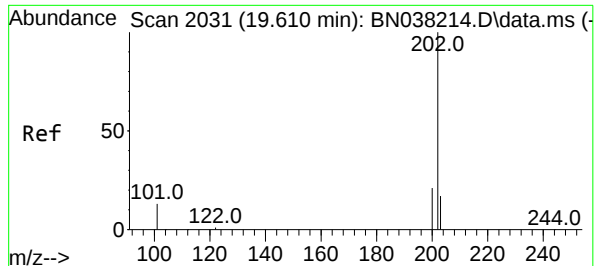
Tgt Ion:202 Resp: 445842  
Ion Ratio Lower Upper  
202 100  
101 11.8 9.8 14.6  
203 17.3 13.6 20.4



#29  
Chrysene-d12  
Concen: 0.400 ng  
RT: 21.366 min Scan# 2268  
Delta R.T. 0.000 min  
Lab File: BN038218.D  
Acq: 27 Nov 2025 00:13

Tgt Ion:240 Resp: 17259  
Ion Ratio Lower Upper  
240 100  
120 14.9 18.1 27.1#  
236 29.2 24.2 36.4

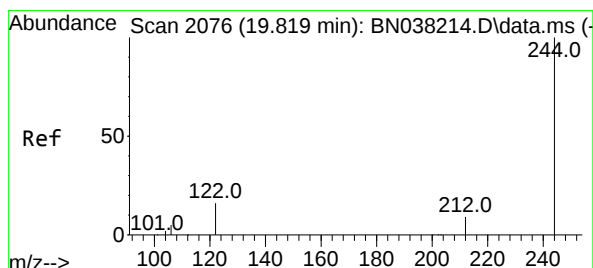
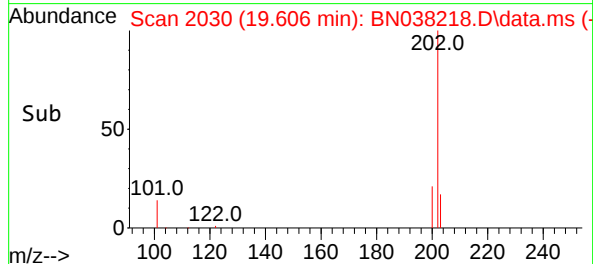
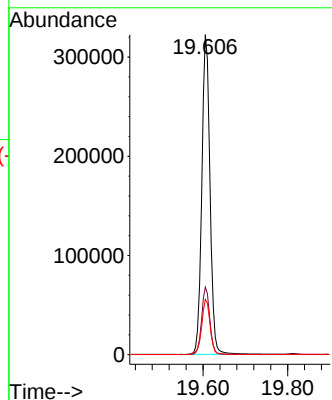
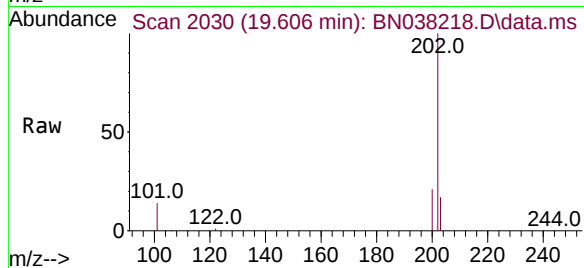




#30  
Pyrene  
Concen: 5.021 ng  
RT: 19.606 min Scan# 2030  
Delta R.T. -0.005 min  
Lab File: BN038218.D  
Acq: 27 Nov 2025 00:13

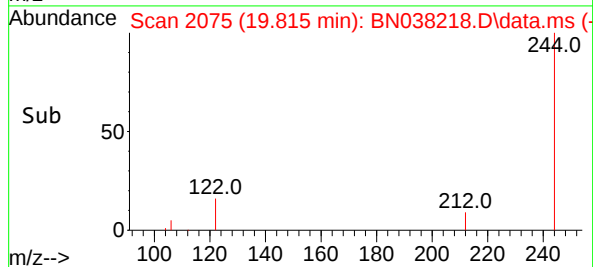
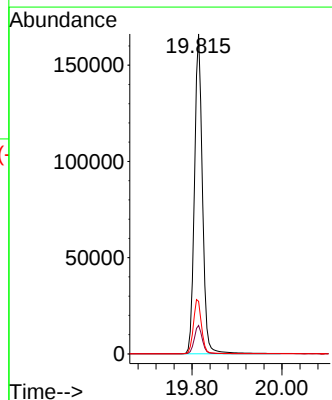
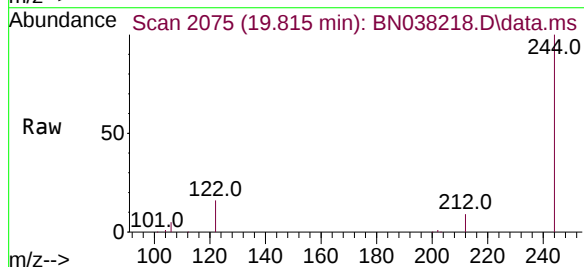
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC5.0

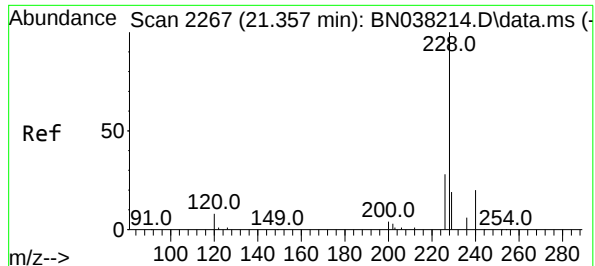
Tgt Ion:202 Resp: 432809  
Ion Ratio Lower Upper  
202 100  
200 21.1 16.8 25.2  
203 17.7 14.4 21.6



#31  
Terphenyl-d14  
Concen: 5.136 ng  
RT: 19.815 min Scan# 2075  
Delta R.T. -0.005 min  
Lab File: BN038218.D  
Acq: 27 Nov 2025 00:13

Tgt Ion:244 Resp: 204734  
Ion Ratio Lower Upper  
244 100  
212 8.9 7.7 11.5  
122 16.5 13.6 20.4

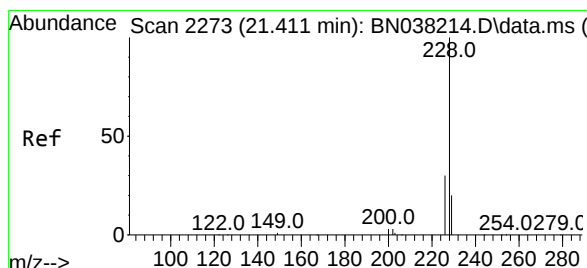
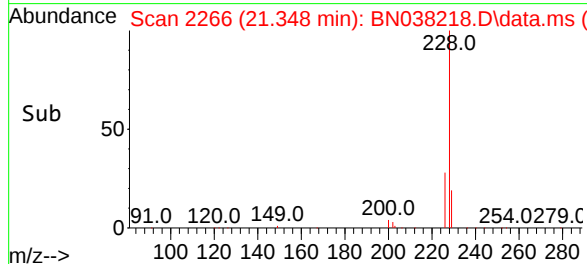
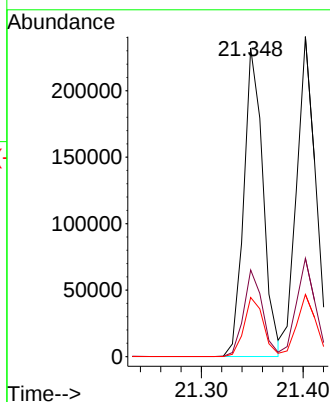
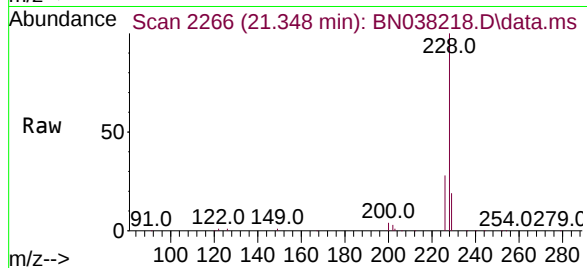




#32  
Benzo(a)anthracene  
Concen: 5.200 ng  
RT: 21.348 min Scan# 21  
Delta R.T. -0.009 min  
Lab File: BN038218.D  
Acq: 27 Nov 2025 00:13

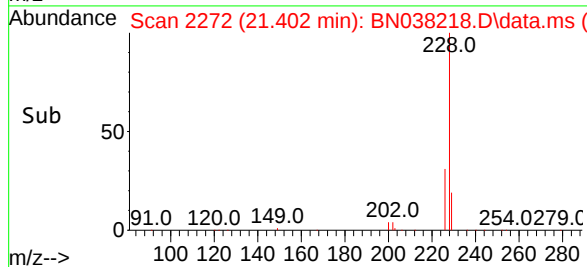
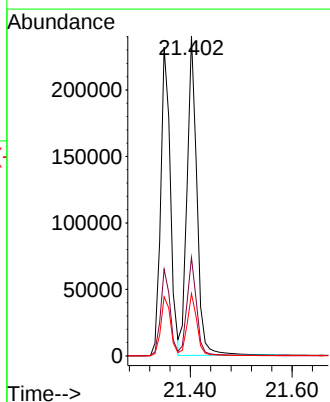
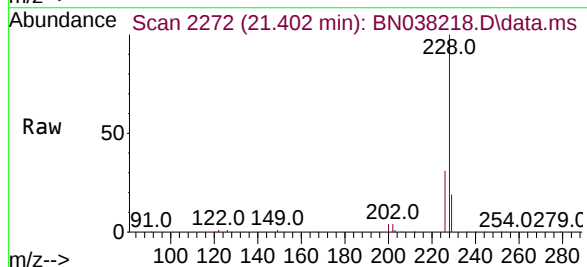
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC5.0

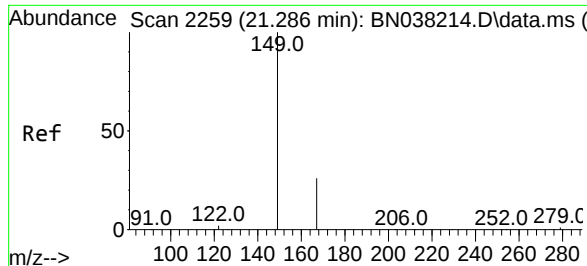
Tgt Ion:228 Resp: 303930  
Ion Ratio Lower Upper  
228 100  
226 28.1 22.6 33.8  
229 19.2 15.8 23.8



#33  
Chrysene  
Concen: 4.672 ng  
RT: 21.402 min Scan# 2272  
Delta R.T. -0.009 min  
Lab File: BN038218.D  
Acq: 27 Nov 2025 00:13

Tgt Ion:228 Resp: 322253  
Ion Ratio Lower Upper  
228 100  
226 30.7 23.8 35.8  
229 19.4 16.1 24.1

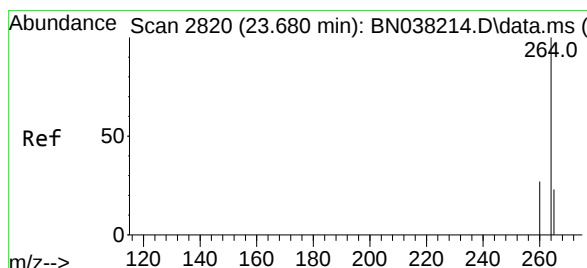
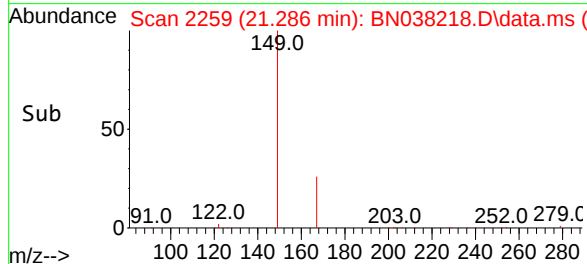
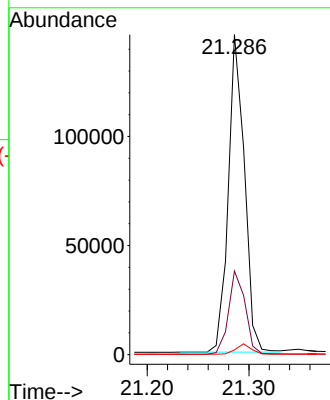
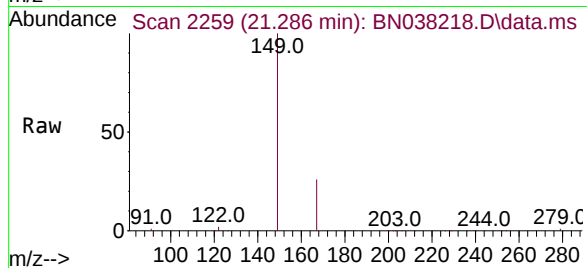




#34  
Bis(2-ethylhexyl)phthalate  
Concen: 5.026 ng  
RT: 21.286 min Scan# 211  
Delta R.T. 0.000 min  
Lab File: BN038218.D  
Acq: 27 Nov 2025 00:13

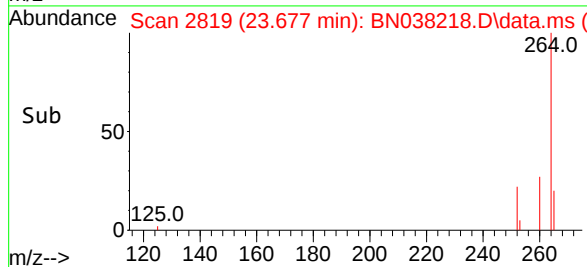
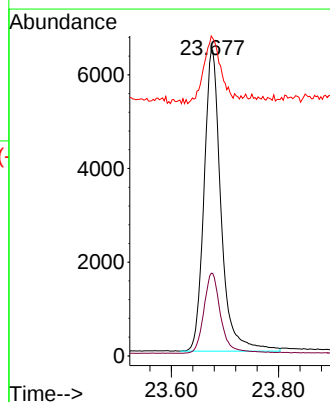
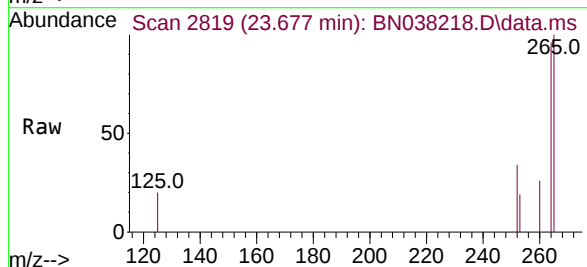
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BNA\_N  
ClientSampleId :  
SSTDICC5.0

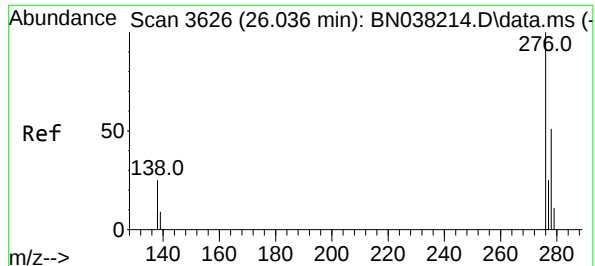
Tgt Ion:149 Resp: 160858  
Ion Ratio Lower Upper  
149 100  
167 27.0 20.7 31.1  
279 3.2 2.5 3.7



#35  
Perylene-d12  
Concen: 0.400 ng  
RT: 23.677 min Scan# 2819  
Delta R.T. -0.003 min  
Lab File: BN038218.D  
Acq: 27 Nov 2025 00:13

Tgt Ion:264 Resp: 14227  
Ion Ratio Lower Upper  
264 100  
260 27.0 21.7 32.5  
265 103.9 98.0 147.0





#36

Indeno(1,2,3-cd)pyrene

Concen: 5.295 ng

RT: 26.022 min Scan# 30

Delta R.T. -0.015 min

Lab File: BN038218.D

Acq: 27 Nov 2025 00:13

Instrument :

BNA\_N

ClientSampleId :

SSTDICC5.0

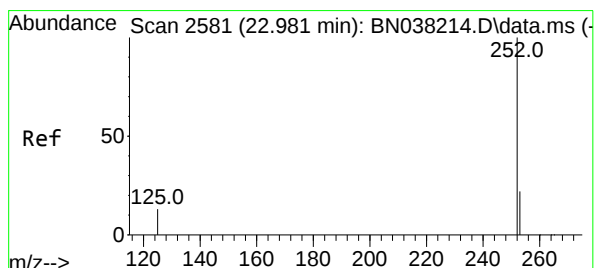
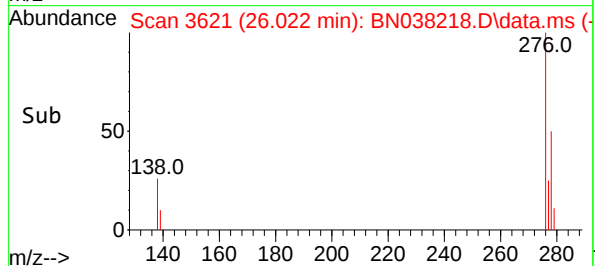
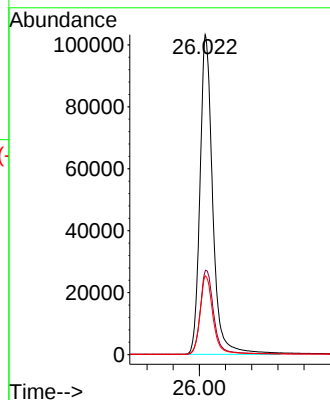
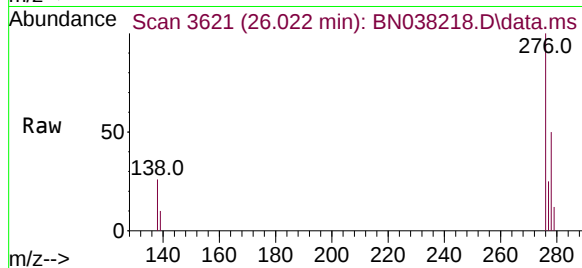
Tgt Ion:276 Resp: 348640

Ion Ratio Lower Upper

276 100

138 27.4 21.4 32.2

277 24.9 19.1 28.7



#37

Benzo(b)fluoranthene

Concen: 5.145 ng

RT: 22.975 min Scan# 2579

Delta R.T. -0.006 min

Lab File: BN038218.D

Acq: 27 Nov 2025 00:13

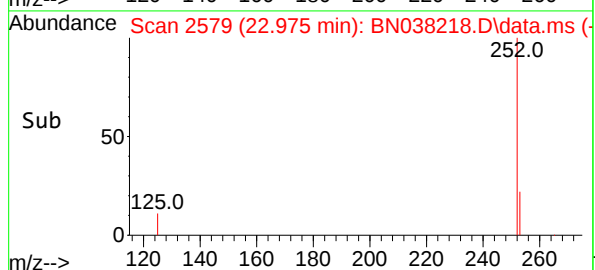
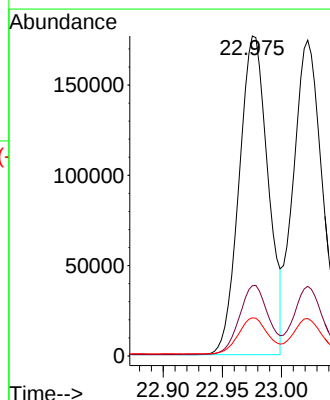
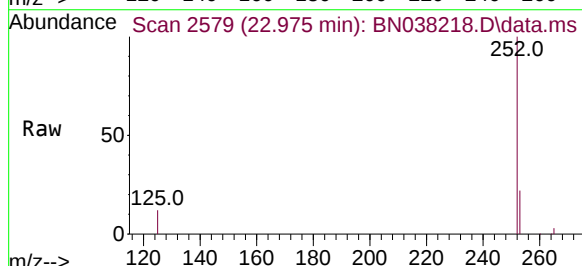
Tgt Ion:252 Resp: 300462

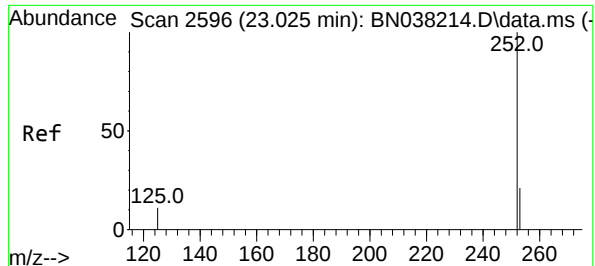
Ion Ratio Lower Upper

252 100

253 21.9 22.2 33.4#

125 11.9 18.0 27.0#





#38

Benzo(k)fluoranthene

Concen: 5.104 ng

RT: 23.022 min Scan# 21

Delta R.T. -0.003 min

Lab File: BN038218.D

Acq: 27 Nov 2025 00:13

Instrument :

BNA\_N

ClientSampleId :

SSTDICC5.0

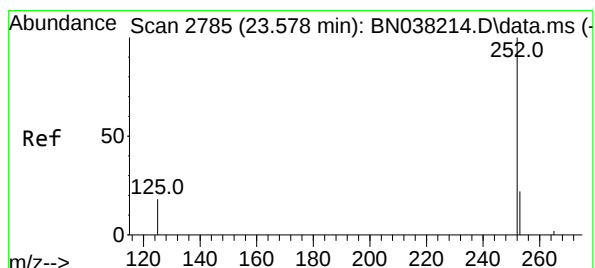
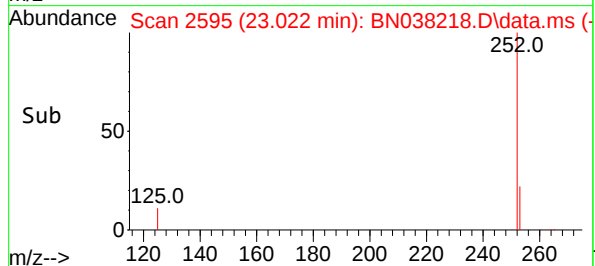
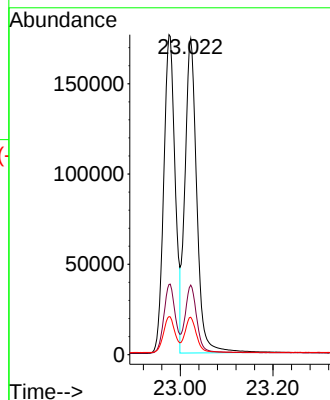
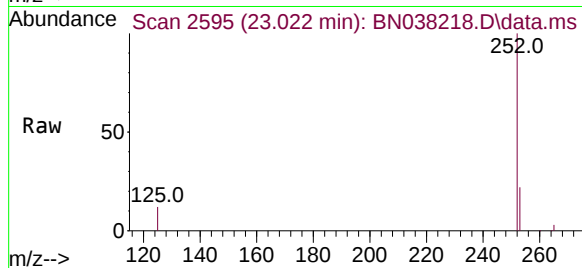
Tgt Ion:252 Resp: 309850

Ion Ratio Lower Upper

252 100

253 22.0 22.4 33.6#

125 11.8 17.5 26.3#



#39

Benzo(a)pyrene

Concen: 5.149 ng

RT: 23.575 min Scan# 2784

Delta R.T. -0.003 min

Lab File: BN038218.D

Acq: 27 Nov 2025 00:13

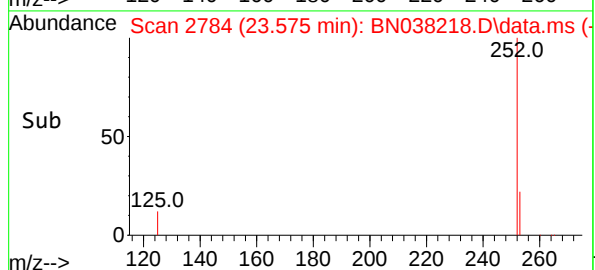
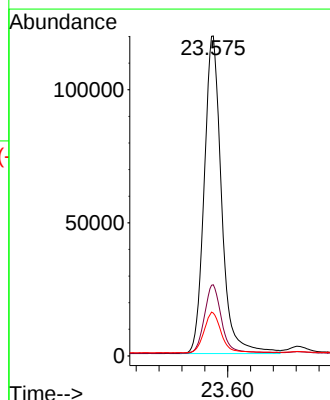
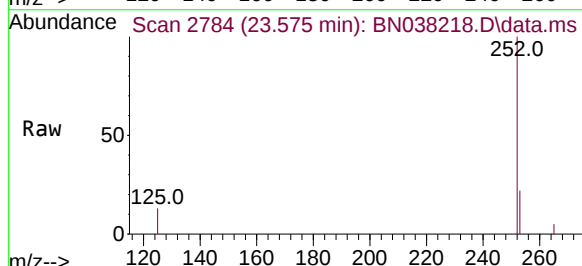
Tgt Ion:252 Resp: 252042

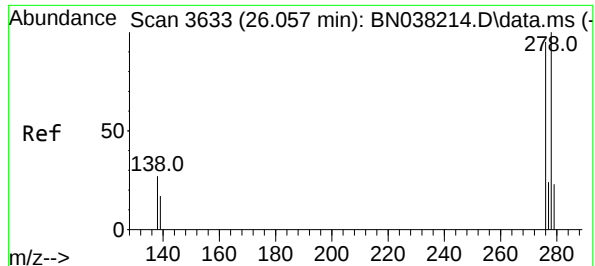
Ion Ratio Lower Upper

252 100

253 22.2 25.3 37.9#

125 13.4 25.2 37.8#





#40

Dibenzo(a,h)anthracene

Concen: 5.462 ng

RT: 26.042 min Scan# 3628

Delta R.T. -0.015 min

Lab File: BN038218.D

Acq: 27 Nov 2025 00:13

Instrument :

BNA\_N

ClientSampleId :

SSTDICC5.0

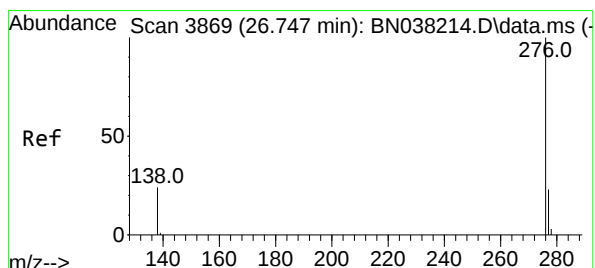
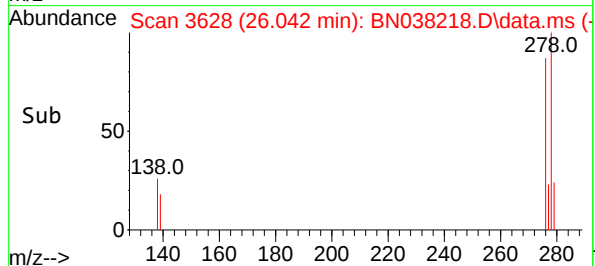
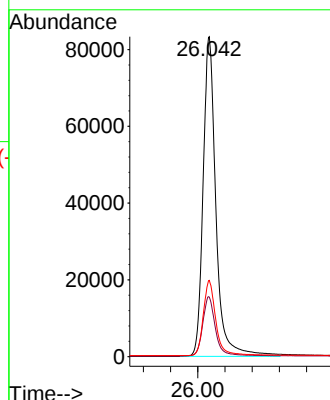
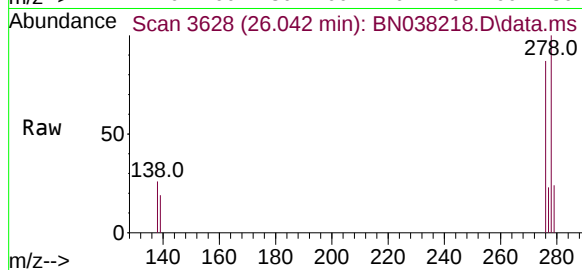
Tgt Ion:278 Resp: 272232

Ion Ratio Lower Upper

278 100

139 18.6 17.6 26.4

279 23.8 24.2 36.4#



#41

Benzo(g,h,i)perylene

Concen: 5.013 ng

RT: 26.741 min Scan# 3867

Delta R.T. -0.006 min

Lab File: BN038218.D

Acq: 27 Nov 2025 00:13

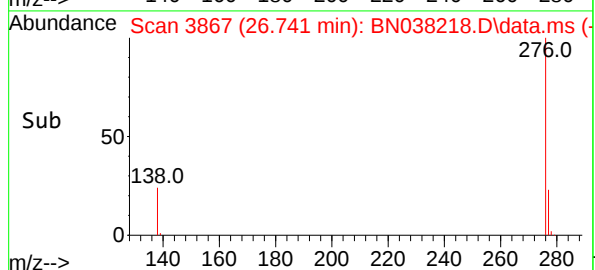
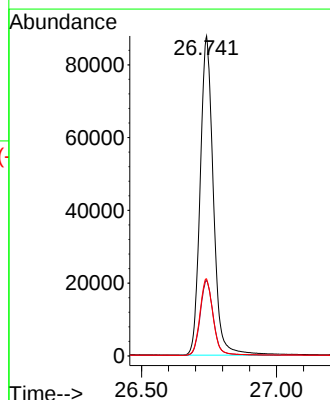
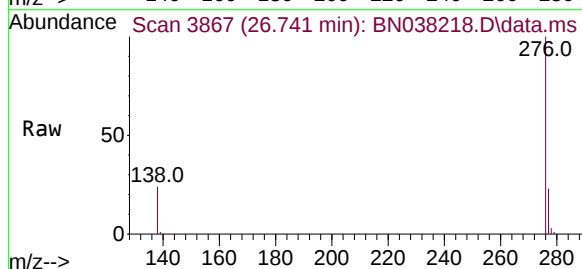
Tgt Ion:276 Resp: 296912

Ion Ratio Lower Upper

276 100

277 23.4 20.2 30.2

138 24.1 20.8 31.2

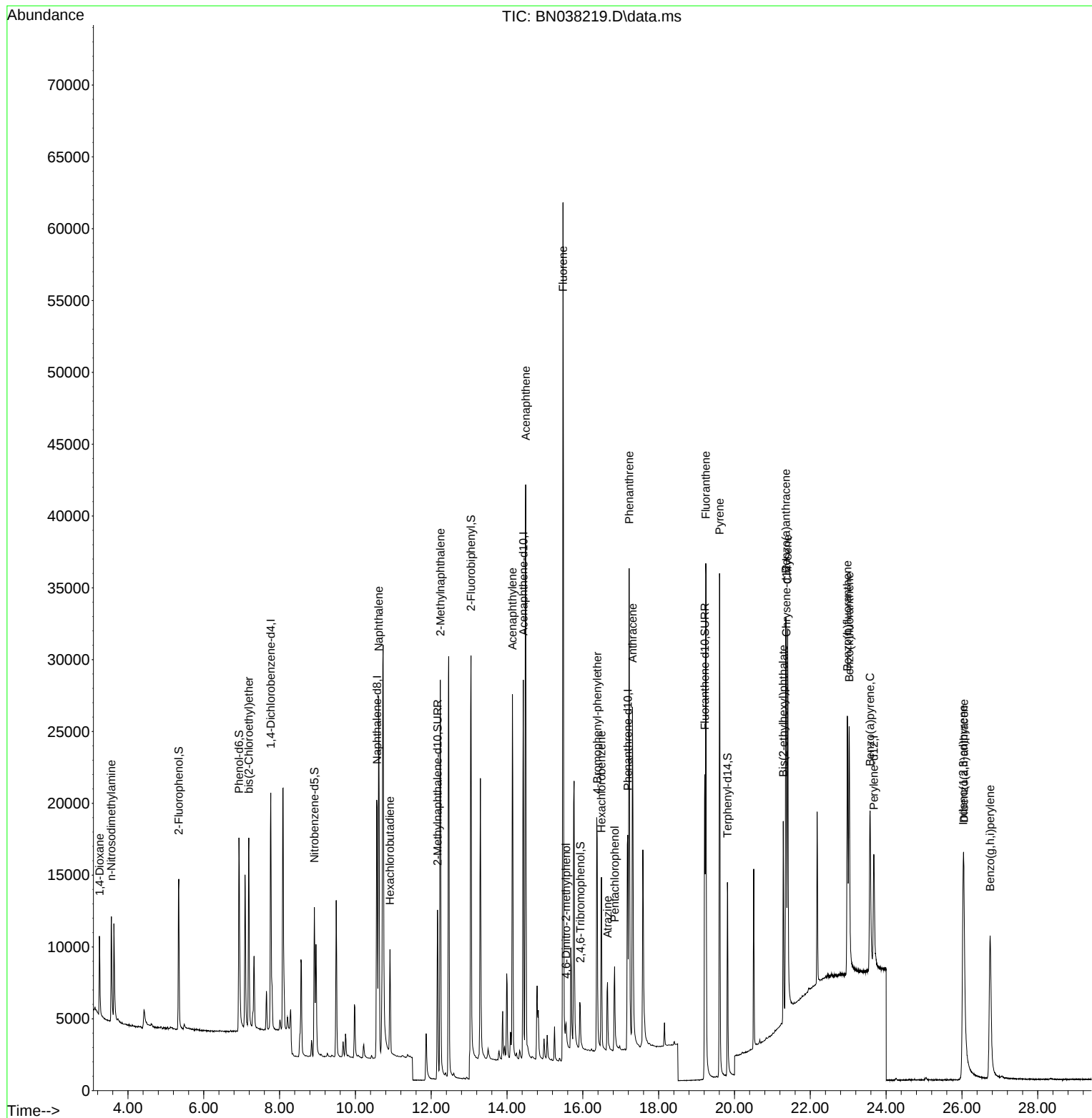


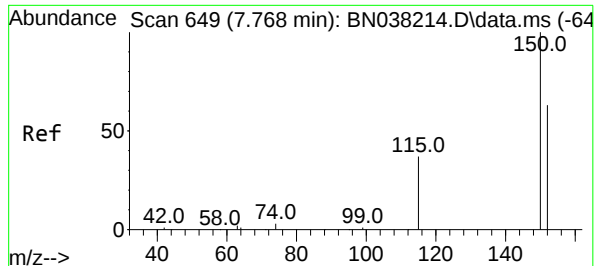


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Data File : BN038219.D  
Acq On : 27 Nov 2025 00:49  
Operator : RC/JU  
Sample : SSTDICV0.4  
Misc :  
ALS Vial : 19 Sample Multiplier: 1

Instrument :  
BNA\_N  
ClientSampleId :  
ICVBN112725

Quant Time: Nov 28 20:56:34 2025  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\8270-SIM-BN112725.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Fri Nov 28 20:22:09 2025  
Response via : Initial Calibration

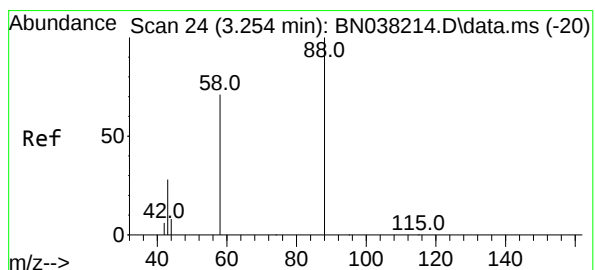
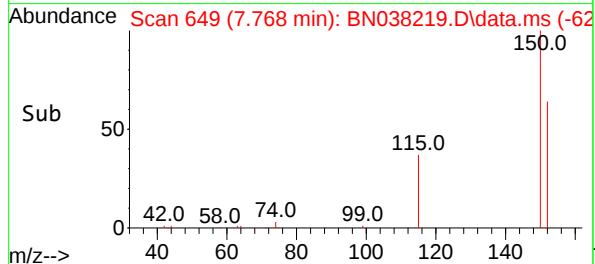
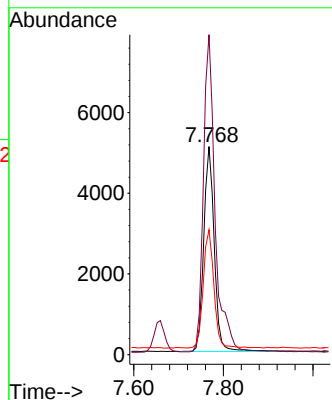
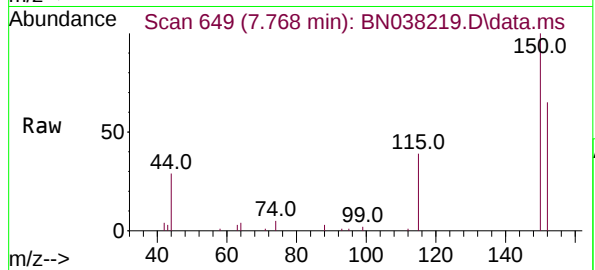




#1  
1,4-Dichlorobenzene-d4  
Concen: 0.400 ng  
RT: 7.768 min Scan# 64  
Delta R.T. -0.000 min  
Lab File: BN038219.D  
Acq: 27 Nov 2025 00:49

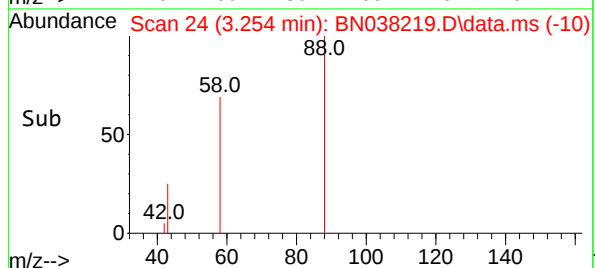
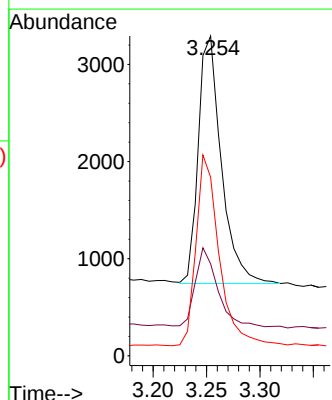
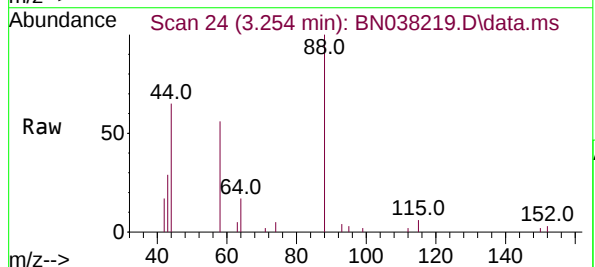
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BNA\_N  
ClientSampleId :  
ICVBN112725

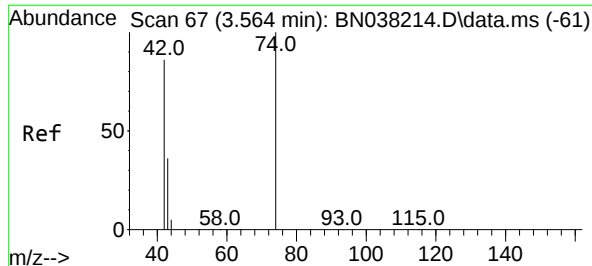
Tgt Ion:152 Resp: 8286  
Ion Ratio Lower Upper  
152 100  
150 153.8 125.3 187.9  
115 60.0 49.0 73.4



#2  
1,4-Dioxane  
Concen: 0.438 ng  
RT: 3.254 min Scan# 24  
Delta R.T. 0.000 min  
Lab File: BN038219.D  
Acq: 27 Nov 2025 00:49

Tgt Ion: 88 Resp: 3822  
Ion Ratio Lower Upper  
88 100  
43 32.8 24.8 37.2  
58 77.4 61.1 91.7

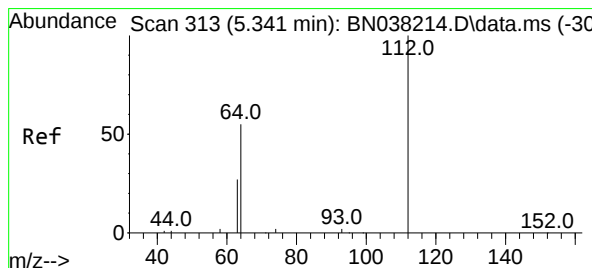
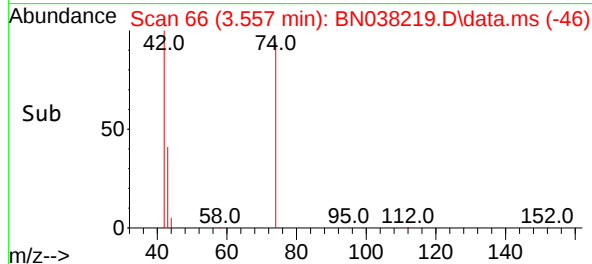
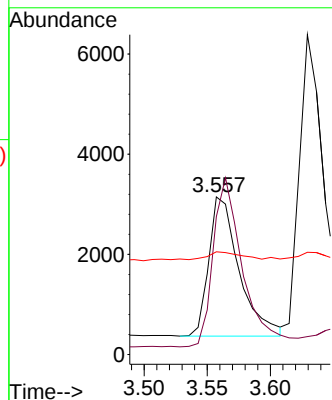
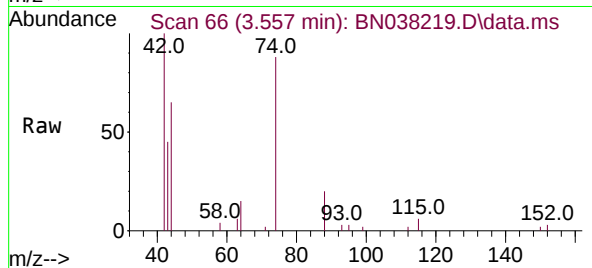




#3  
n-Nitrosodimethylamine  
Concen: 0.435 ng  
RT: 3.557 min Scan# 60  
Delta R.T. -0.007 min  
Lab File: BN038219.D  
Acq: 27 Nov 2025 00:49

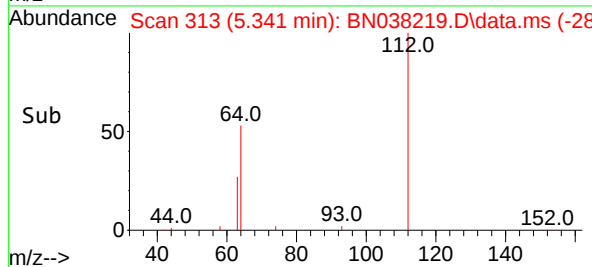
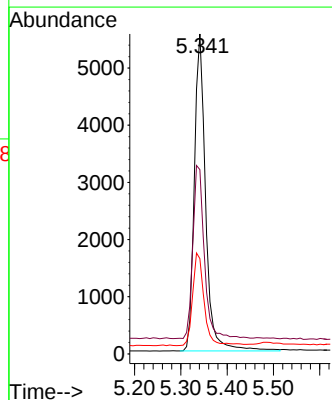
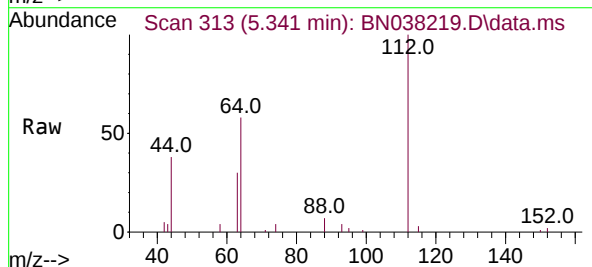
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BNA\_N  
ClientSampleId :  
ICVBN112725

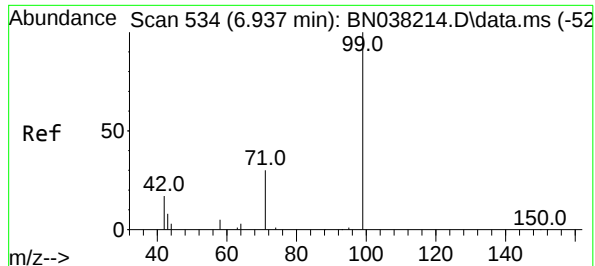
Tgt Ion: 42 Resp: 4687  
Ion Ratio Lower Upper  
42 100  
74 119.2 96.2 144.2  
44 7.0 8.0 12.0#



#4  
2-Fluorophenol  
Concen: 0.485 ng  
RT: 5.341 min Scan# 313  
Delta R.T. 0.000 min  
Lab File: BN038219.D  
Acq: 27 Nov 2025 00:49

Tgt Ion: 112 Resp: 9400  
Ion Ratio Lower Upper  
112 100  
64 55.6 45.0 67.4  
63 30.1 23.2 34.8

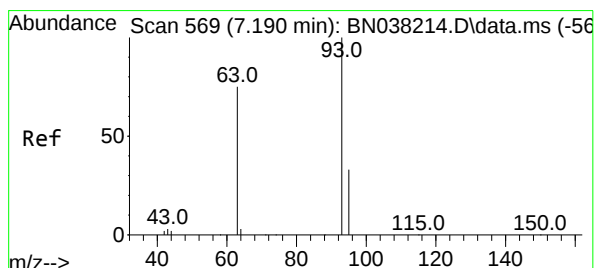
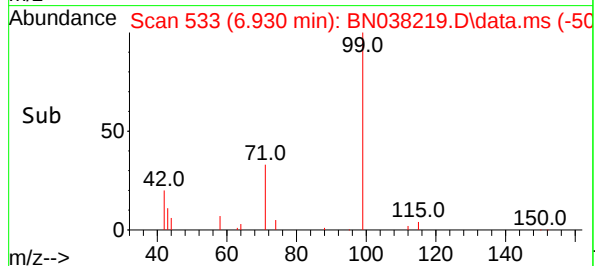
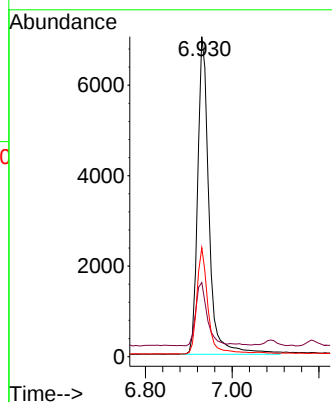
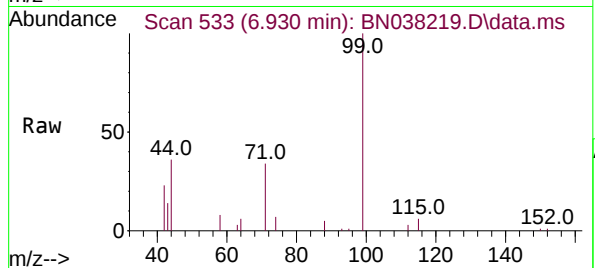




#5  
Phenol-d6  
Concen: 0.527 ng  
RT: 6.930 min Scan# 534  
Delta R.T. -0.007 min  
Lab File: BN038219.D  
Acq: 27 Nov 2025 00:49

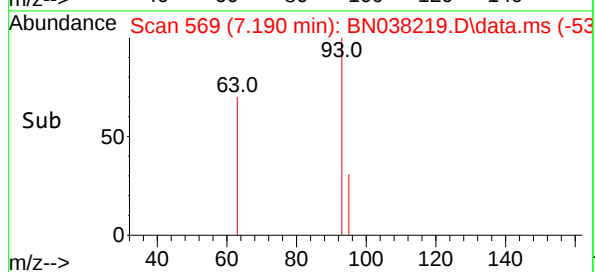
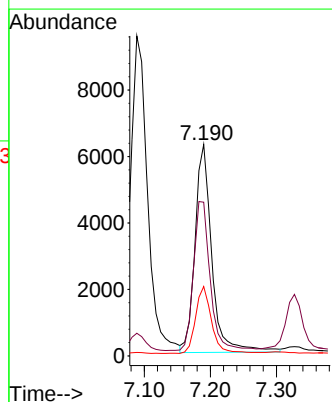
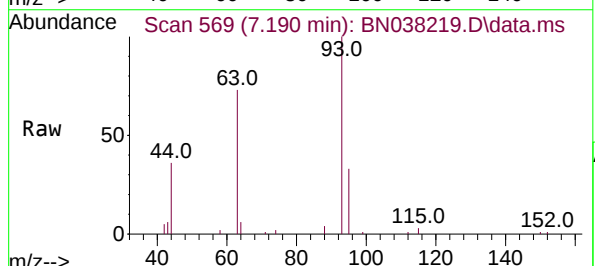
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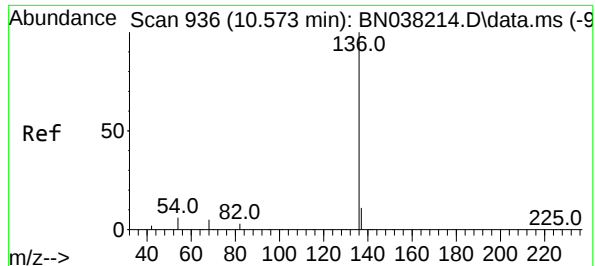
Tgt Ion: 99 Resp: 12758  
Ion Ratio Lower Upper  
99 100  
42 20.3 17.0 25.6  
71 32.7 25.4 38.2



#6  
bis(2-Chloroethyl)ether  
Concen: 0.478 ng  
RT: 7.190 min Scan# 569  
Delta R.T. 0.000 min  
Lab File: BN038219.D  
Acq: 27 Nov 2025 00:49

Tgt Ion: 93 Resp: 11078  
Ion Ratio Lower Upper  
93 100  
63 70.6 58.1 87.1  
95 30.5 25.1 37.7

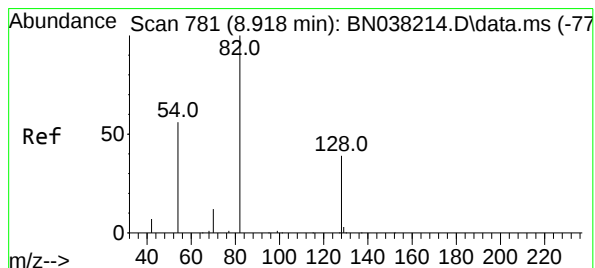
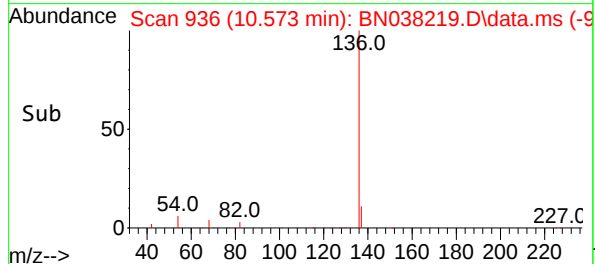
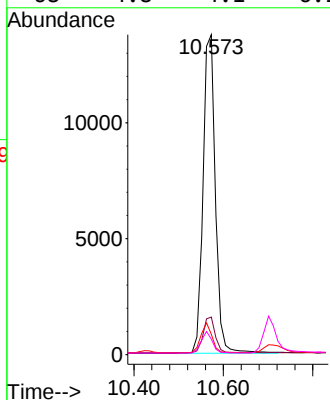
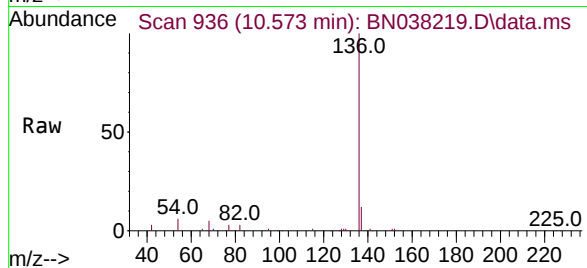




#7  
Naphthalene-d8  
Concen: 0.400 ng  
RT: 10.573 min Scan# 936  
Delta R.T. 0.000 min  
Lab File: BN038219.D  
Acq: 27 Nov 2025 00:49

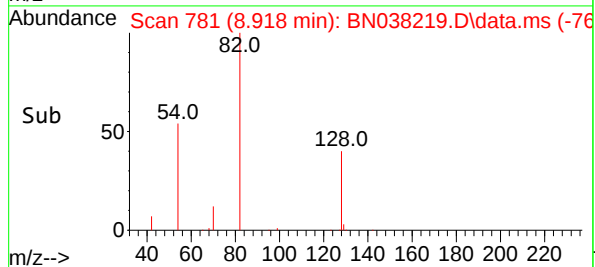
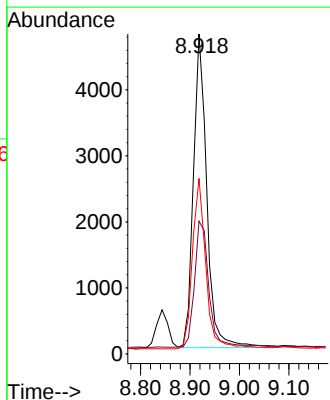
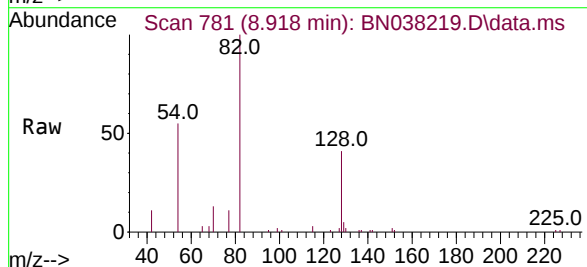
Instrument :  
BNA\_N  
ClientSampleId :  
ICVBN112725

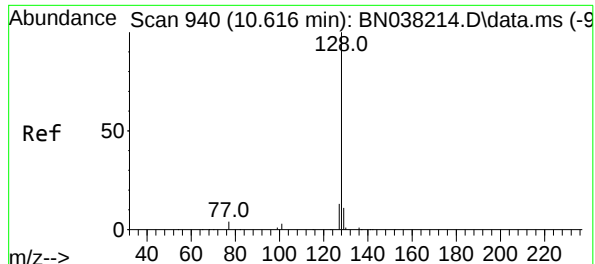
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 136   | Resp: | 26445 |
| Ion      | Ratio | Lower | Upper |
| 136      | 100   |       |       |
| 137      | 11.7  | 8.9   | 13.3  |
| 54       | 6.3   | 5.4   | 8.0   |
| 68       | 4.8   | 4.1   | 6.1   |



#8  
Nitrobenzene-d5  
Concen: 0.422 ng  
RT: 8.918 min Scan# 781  
Delta R.T. 0.000 min  
Lab File: BN038219.D  
Acq: 27 Nov 2025 00:49

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 82    | Resp: | 8931  |
| Ion      | Ratio | Lower | Upper |
| 82       | 100   |       |       |
| 128      | 41.5  | 32.6  | 48.8  |
| 54       | 54.8  | 45.4  | 68.0  |

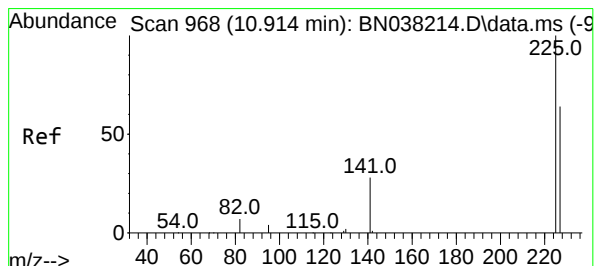
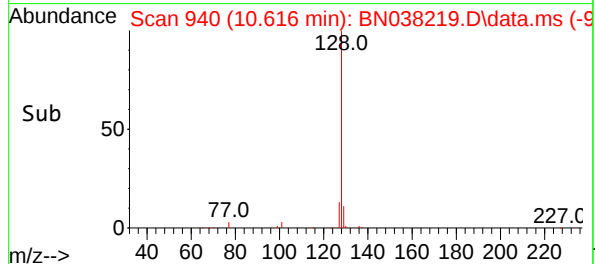
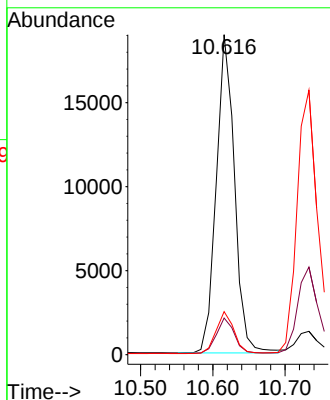
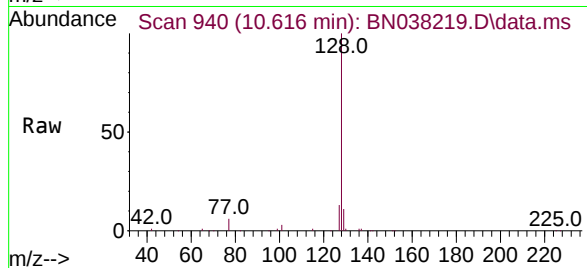




#9  
Naphthalene  
Concen: 0.453 ng  
RT: 10.616 min Scan# 940  
Delta R.T. 0.000 min  
Lab File: BN038219.D  
Acq: 27 Nov 2025 00:49

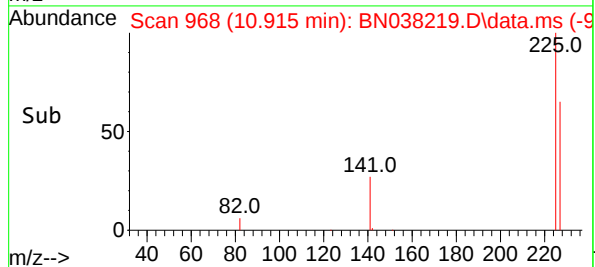
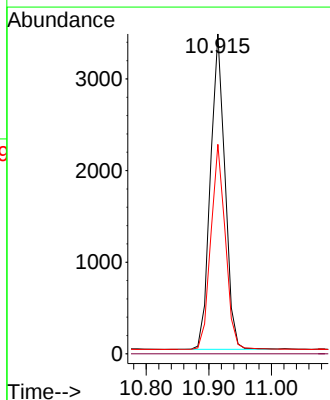
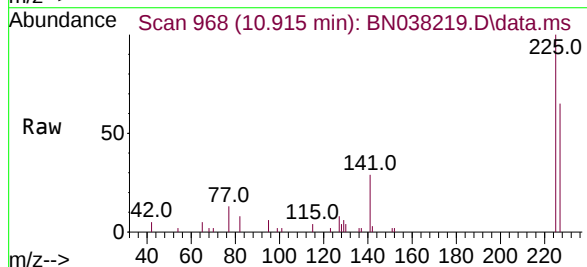
Instrument :  
BNA\_N  
ClientSampleId :  
ICVBN112725

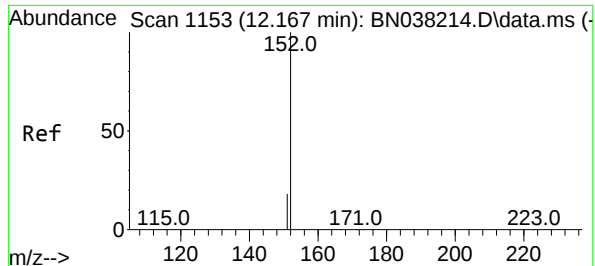
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 128     | 100   |       |       |
| 129     | 11.4  | 9.1   | 13.7  |
| 127     | 13.4  | 10.6  | 16.0  |



#10  
Hexachlorobutadiene  
Concen: 0.445 ng  
RT: 10.915 min Scan# 968  
Delta R.T. 0.000 min  
Lab File: BN038219.D  
Acq: 27 Nov 2025 00:49

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 225     | 100   |       |       |
| 223     | 0.0   | 0.0   | 0.0   |
| 227     | 65.2  | 50.5  | 75.7  |

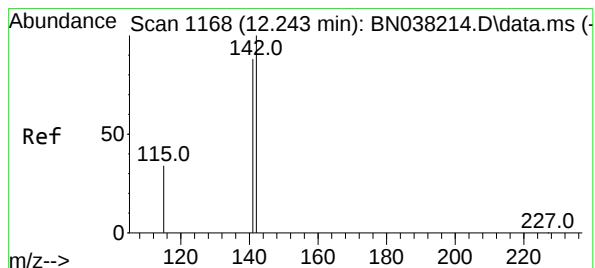
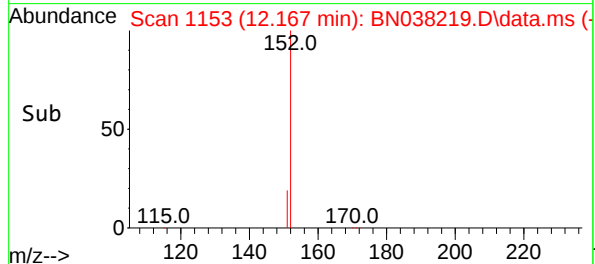
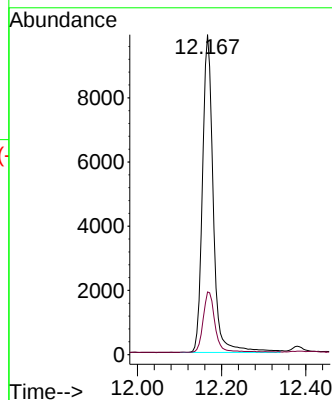
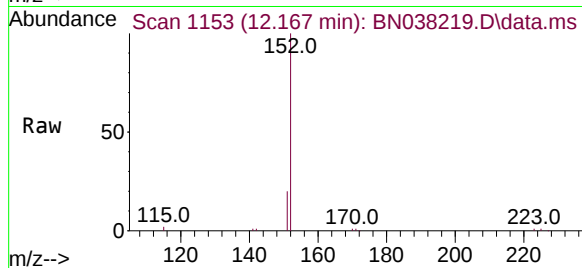




#11  
2-Methylnaphthalene-d10  
Concen: 0.471 ng  
RT: 12.167 min Scan# 1153  
Delta R.T. 0.000 min  
Lab File: BN038219.D  
Acq: 27 Nov 2025 00:49

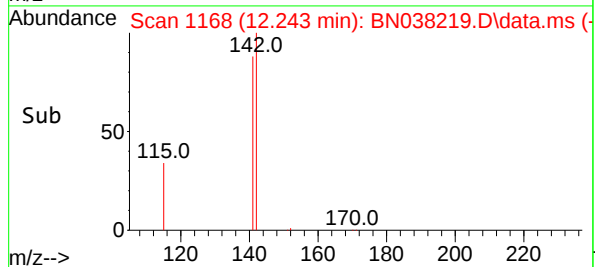
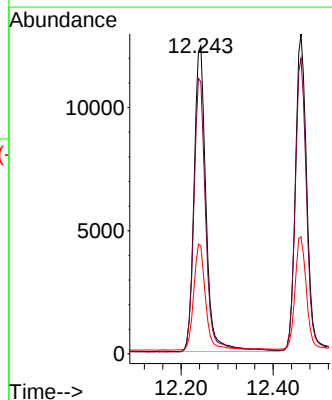
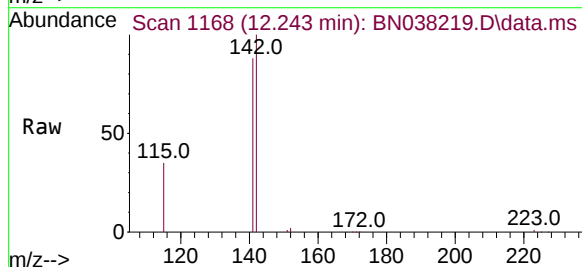
Instrument :  
BNA\_N  
ClientSampleId :  
ICVBN112725

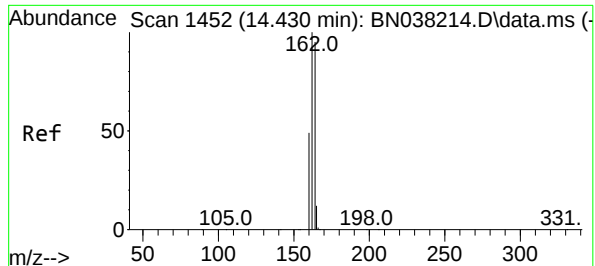
Tgt Ion:152 Resp: 17680  
Ion Ratio Lower Upper  
152 100  
151 20.6 16.7 25.1



#12  
2-Methylnaphthalene  
Concen: 0.467 ng  
RT: 12.243 min Scan# 1168  
Delta R.T. -0.000 min  
Lab File: BN038219.D  
Acq: 27 Nov 2025 00:49

Tgt Ion:142 Resp: 22580  
Ion Ratio Lower Upper  
142 100  
141 88.3 70.9 106.3  
115 35.0 27.7 41.5

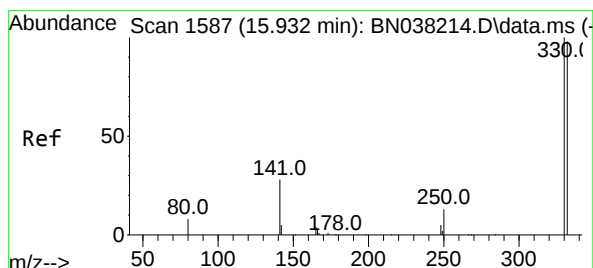
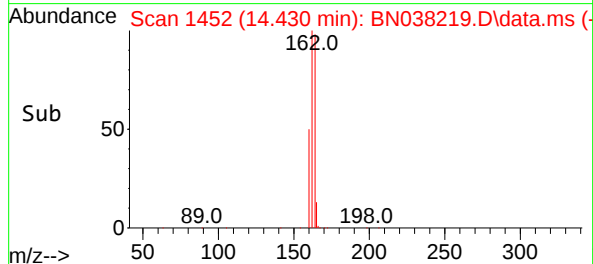
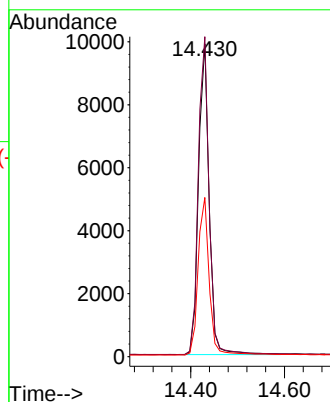
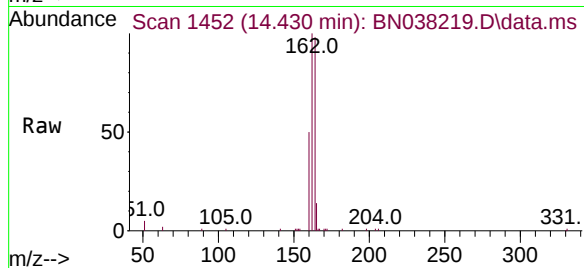




#13  
Acenaphthene-d10  
Concen: 0.400 ng  
RT: 14.430 min Scan# 1452  
Delta R.T. 0.000 min  
Lab File: BN038219.D  
Acq: 27 Nov 2025 00:49

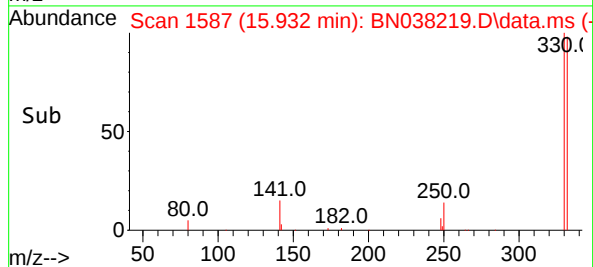
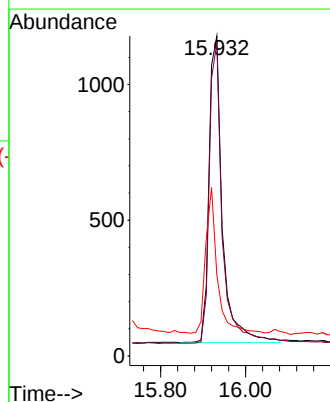
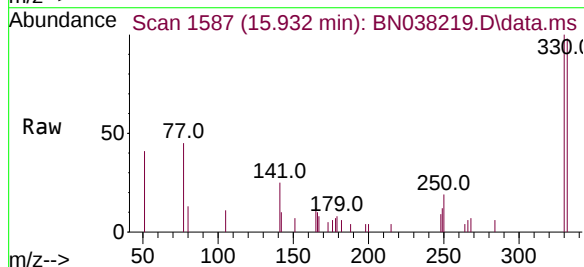
Instrument :  
BNA\_N  
ClientSampleId :  
ICVBN112725

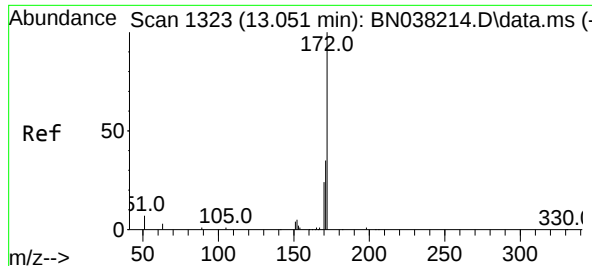
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 164     | 100   |       |       |
| 162     | 102.3 | 83.8  | 125.8 |
| 160     | 50.9  | 41.6  | 62.4  |



#14  
2,4,6-Tribromophenol  
Concen: 0.504 ng  
RT: 15.932 min Scan# 1587  
Delta R.T. 0.000 min  
Lab File: BN038219.D  
Acq: 27 Nov 2025 00:49

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 330     | 100   |       |       |
| 332     | 95.5  | 77.8  | 116.6 |
| 141     | 41.0  | 33.0  | 49.4  |





#15

2-Fluorobiphenyl

Concen: 0.464 ng

RT: 13.051 min Scan# 1323

Delta R.T. 0.000 min

Lab File: BN038219.D

Acq: 27 Nov 2025 00:49

Instrument :

BNA\_N

ClientSampleId :

ICVBN112725

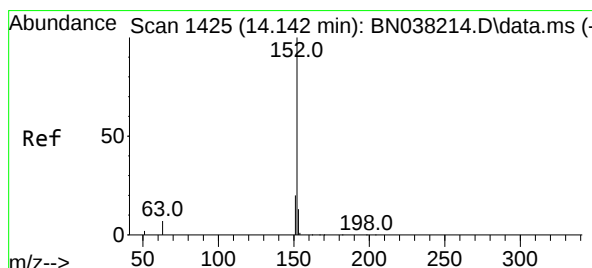
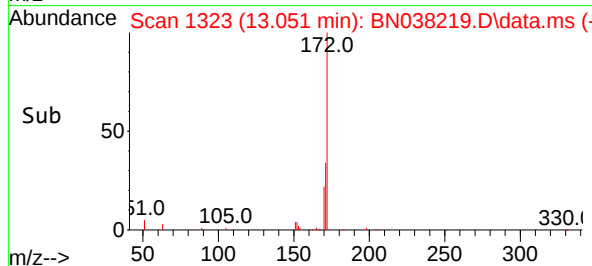
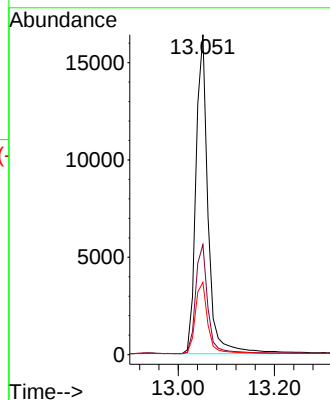
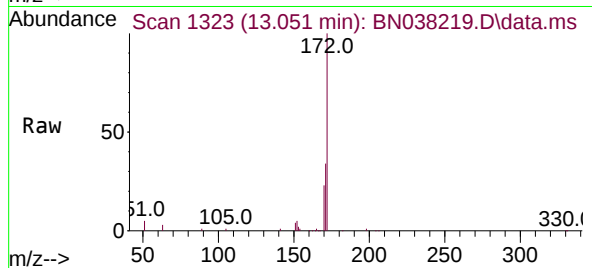
Tgt Ion:172 Resp: 27860

Ion Ratio Lower Upper

172 100

171 34.4 28.1 42.1

170 22.6 19.1 28.7



#16

Acenaphthylene

Concen: 0.440 ng

RT: 14.142 min Scan# 1425

Delta R.T. 0.000 min

Lab File: BN038219.D

Acq: 27 Nov 2025 00:49

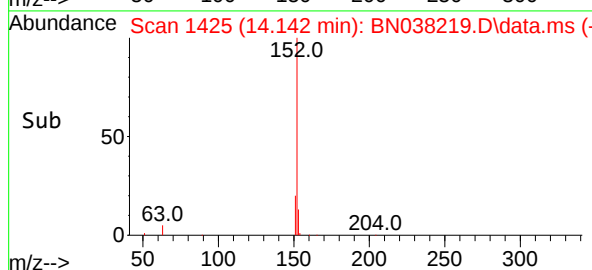
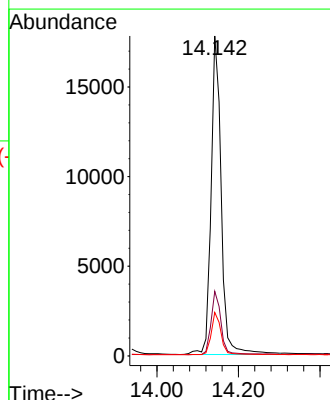
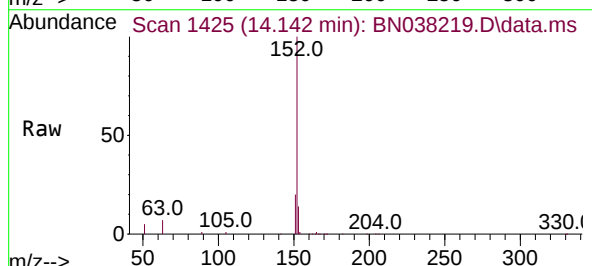
Tgt Ion:152 Resp: 30627

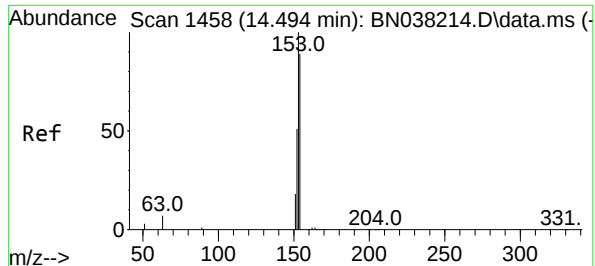
Ion Ratio Lower Upper

152 100

151 19.7 15.6 23.4

153 12.9 10.6 15.8

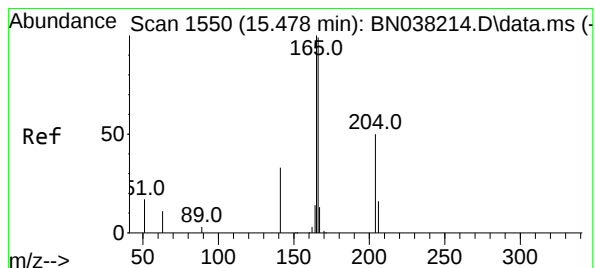
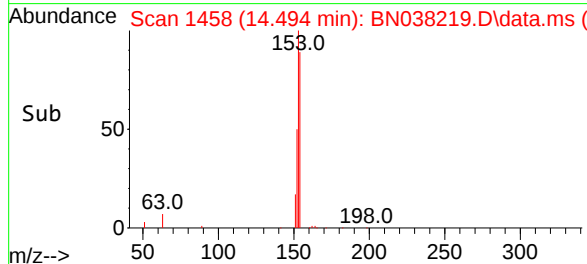
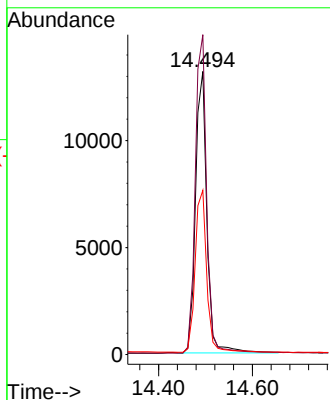
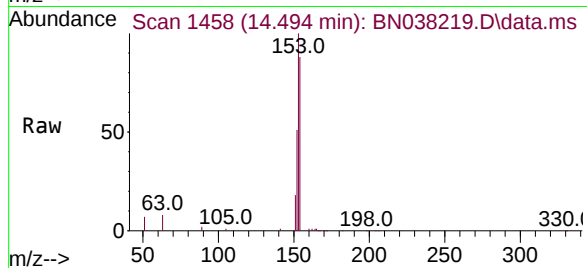




#17  
Acenaphthene  
Concen: 0.456 ng  
RT: 14.494 min Scan# 1458  
Delta R.T. 0.000 min  
Lab File: BN038219.D  
Acq: 27 Nov 2025 00:49

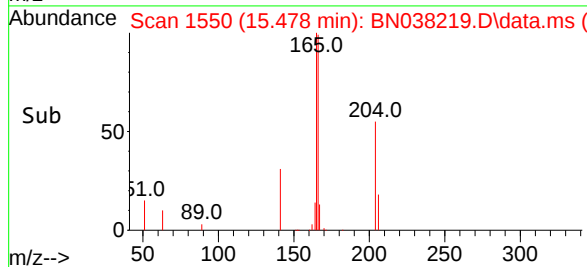
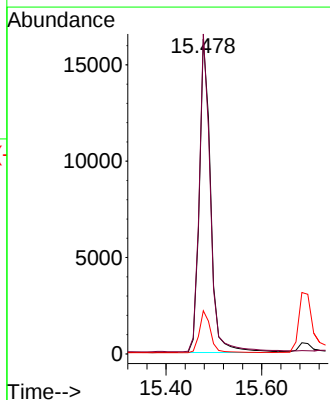
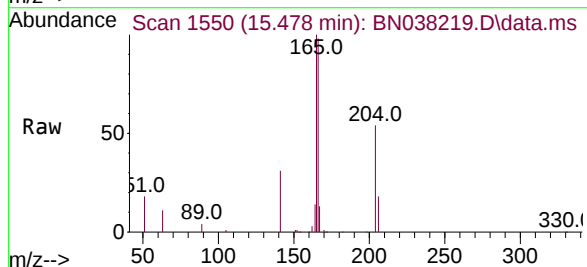
Instrument :  
BNA\_N  
ClientSampleId :  
ICVBN112725

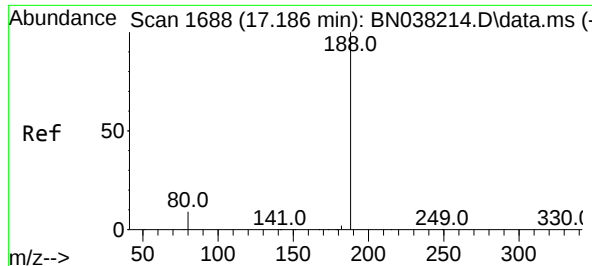
Tgt Ion:154 Resp: 22117  
Ion Ratio Lower Upper  
154 100  
153 113.5 91.1 136.7  
152 58.7 48.2 72.2



#18  
Fluorene  
Concen: 0.463 ng  
RT: 15.478 min Scan# 1550  
Delta R.T. 0.000 min  
Lab File: BN038219.D  
Acq: 27 Nov 2025 00:49

Tgt Ion:166 Resp: 29030  
Ion Ratio Lower Upper  
166 100  
165 98.1 78.7 118.1  
167 13.1 10.9 16.3





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 17.186 min Scan# 1

Delta R.T. 0.000 min

Lab File: BN038219.D

Acq: 27 Nov 2025 00:49

Instrument :

BNA\_N

ClientSampleId :

ICVBN112725

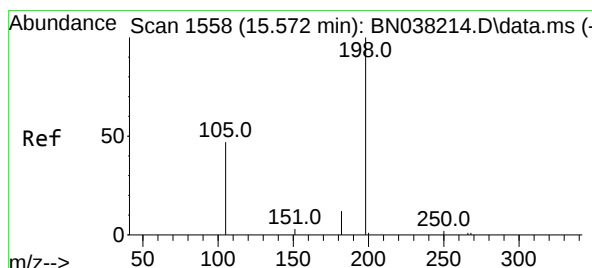
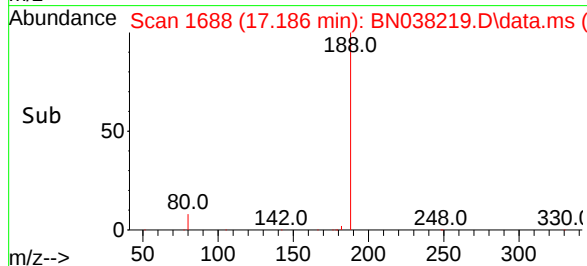
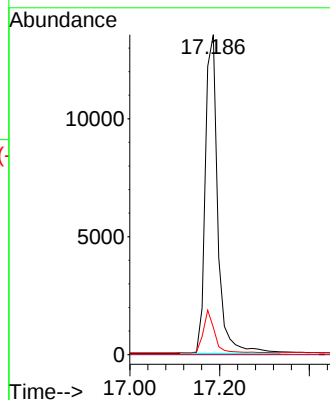
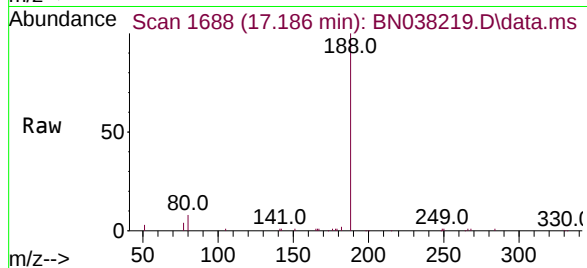
Tgt Ion:188 Resp: 26160

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 8.5 7.7 11.5



#20

4,6-Dinitro-2-methylphenol

Concen: 0.648 ng

RT: 15.560 min Scan# 1557

Delta R.T. -0.012 min

Lab File: BN038219.D

Acq: 27 Nov 2025 00:49

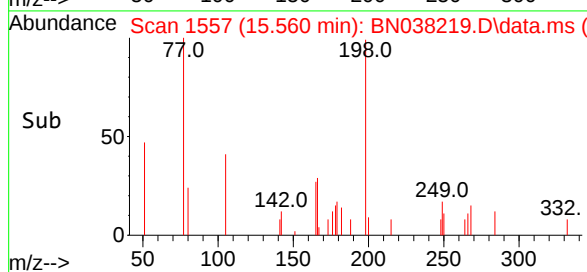
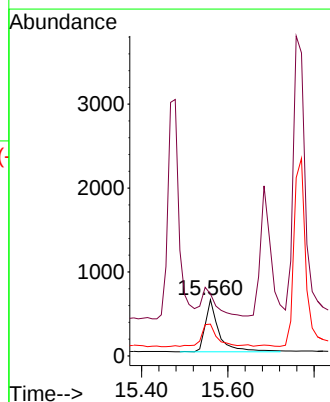
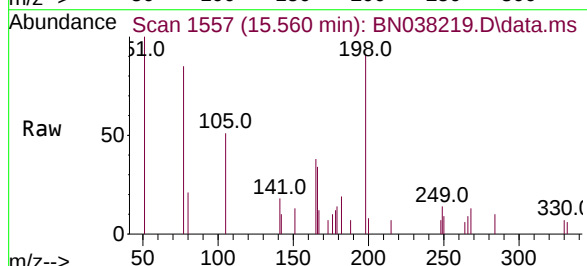
Tgt Ion:198 Resp: 1331

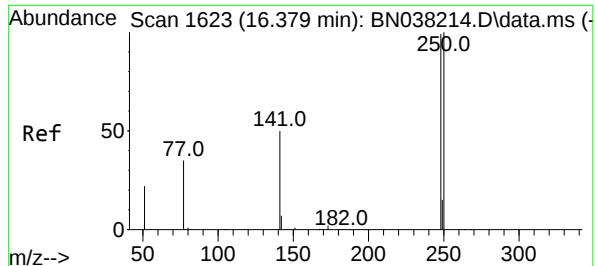
Ion Ratio Lower Upper

198 100

51 110.3 205.1 307.7#

105 56.5 61.6 92.4#

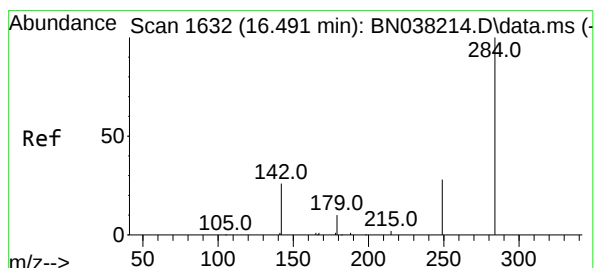
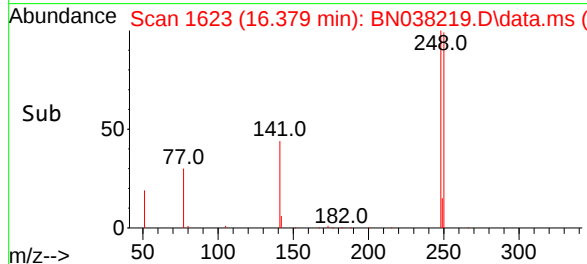
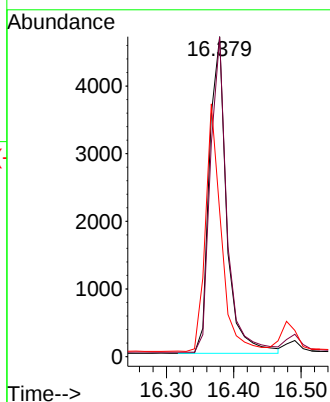
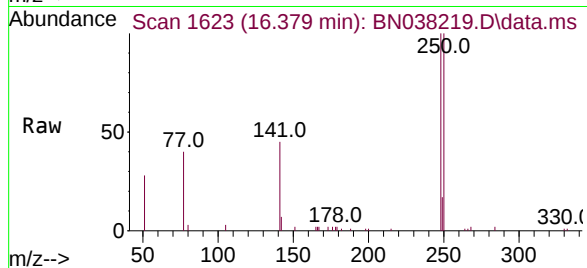




#21  
4-Bromophenyl-phenylether  
Concen: 0.459 ng  
RT: 16.379 min Scan# 1623  
Delta R.T. 0.000 min  
Lab File: BN038219.D  
Acq: 27 Nov 2025 00:49

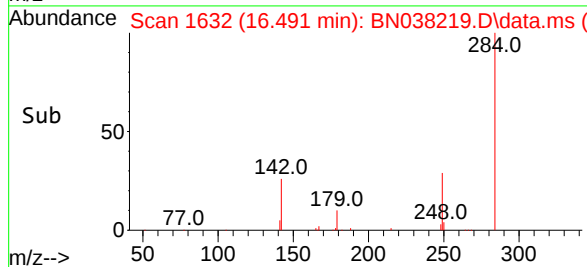
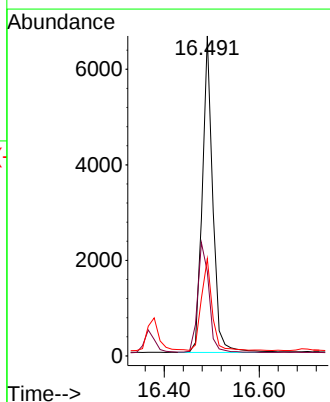
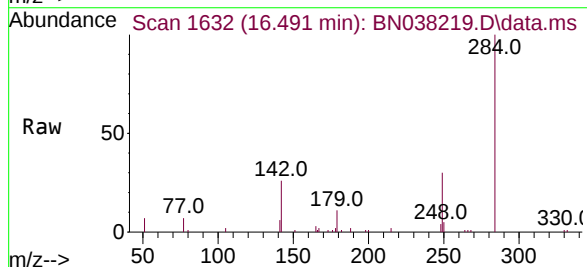
Instrument :  
BNA\_N  
ClientSampleId :  
ICVBN112725

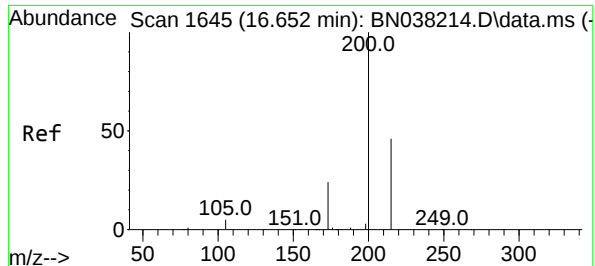
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 248     | 100   |       |       |
| 250     | 99.8  | 80.8  | 121.2 |
| 141     | 45.4  | 41.0  | 61.6  |



#22  
Hexachlorobenzene  
Concen: 0.454 ng  
RT: 16.491 min Scan# 1632  
Delta R.T. 0.000 min  
Lab File: BN038219.D  
Acq: 27 Nov 2025 00:49

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 284     | 100   |       |       |
| 142     | 37.4  | 30.5  | 45.7  |
| 249     | 29.9  | 23.8  | 35.8  |





#23

Atrazine

Concen: 0.415 ng

RT: 16.652 min Scan# 1645

Delta R.T. 0.000 min

Lab File: BN038219.D

Acq: 27 Nov 2025 00:49

Instrument :

BNA\_N

ClientSampleId :

ICVBN112725

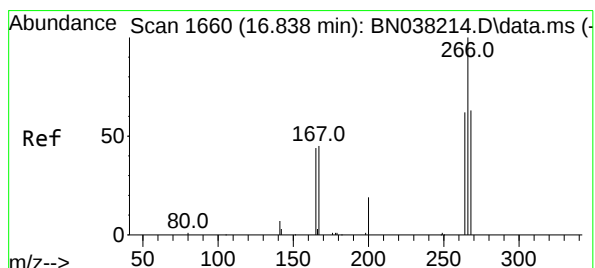
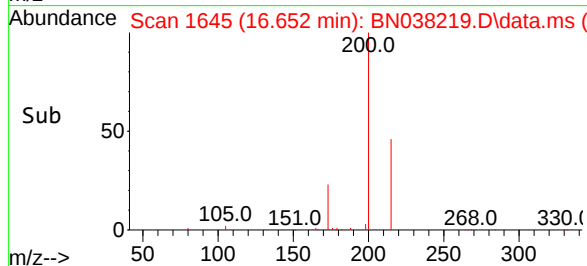
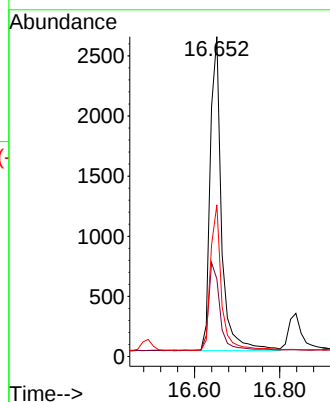
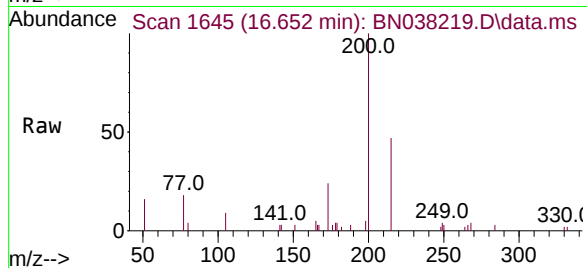
Tgt Ion:200 Resp: 4807

Ion Ratio Lower Upper

200 100

173 24.2 21.0 31.6

215 47.4 37.8 56.8



#24

Pentachlorophenol

Concen: 0.609 ng

RT: 16.838 min Scan# 1660

Delta R.T. 0.000 min

Lab File: BN038219.D

Acq: 27 Nov 2025 00:49

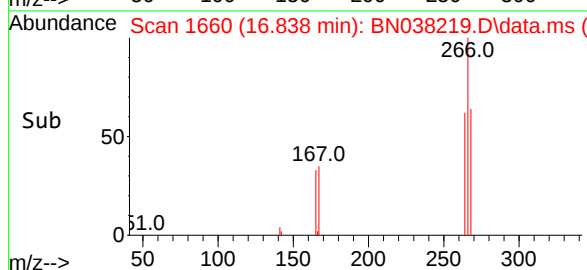
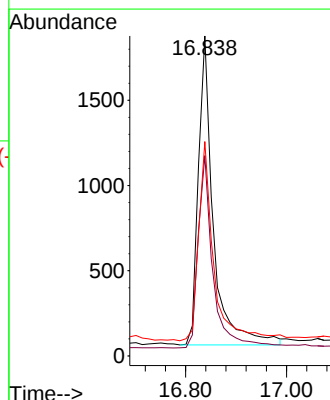
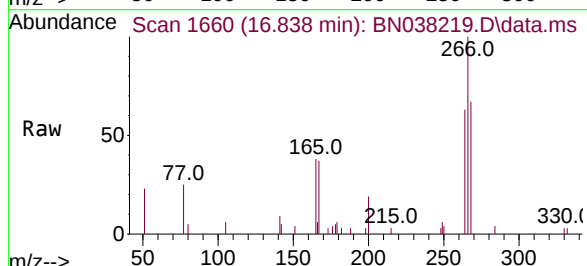
Tgt Ion:266 Resp: 3722

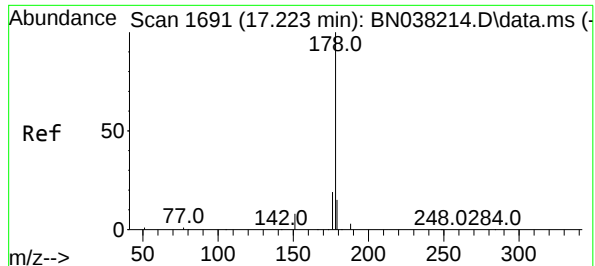
Ion Ratio Lower Upper

266 100

264 62.0 48.9 73.3

268 64.9 50.2 75.2





#25

Phenanthrene

Concen: 0.451 ng

RT: 17.223 min Scan# 1691

Delta R.T. 0.000 min

Lab File: BN038219.D

Acq: 27 Nov 2025 00:49

Instrument :

BNA\_N

ClientSampleId :

ICVBN112725

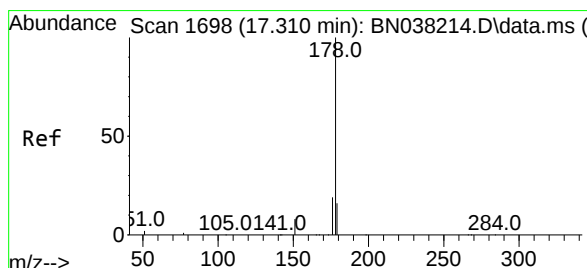
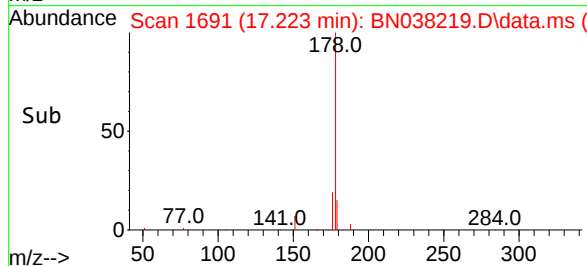
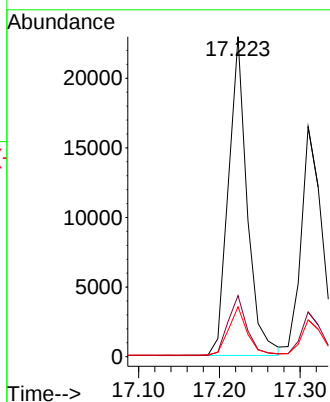
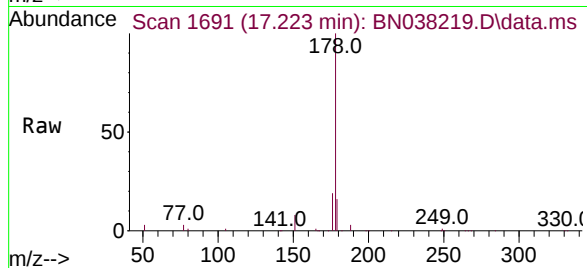
Tgt Ion:178 Resp: 37032

Ion Ratio Lower Upper

178 100

176 19.1 15.3 22.9

179 15.3 12.0 18.0



#26

Anthracene

Concen: 0.447 ng

RT: 17.310 min Scan# 1698

Delta R.T. 0.000 min

Lab File: BN038219.D

Acq: 27 Nov 2025 00:49

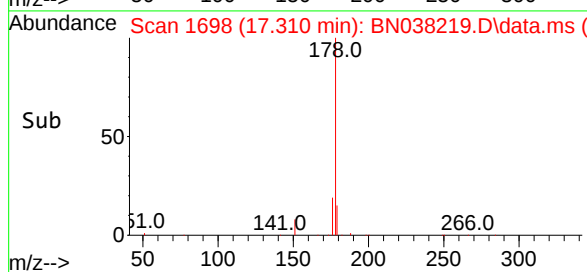
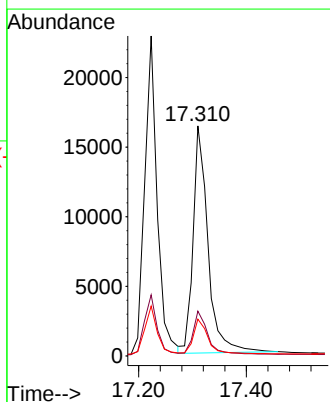
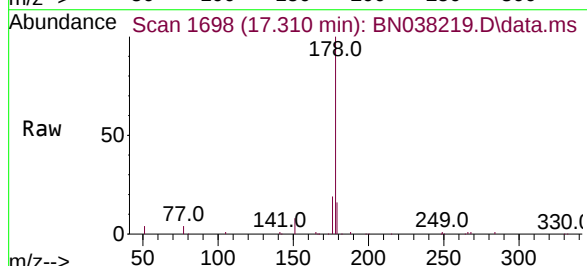
Tgt Ion:178 Resp: 31322

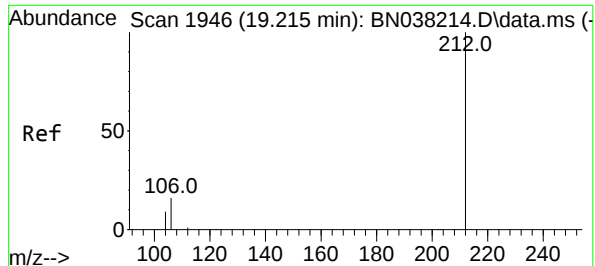
Ion Ratio Lower Upper

178 100

176 19.0 14.7 22.1

179 15.1 12.3 18.5





#27

Fluoranthene-d10

Concen: 0.450 ng

RT: 19.215 min Scan# 1946

Delta R.T. 0.000 min

Lab File: BN038219.D

Acq: 27 Nov 2025 00:49

Instrument :

BNA\_N

ClientSampleId :

ICVBN112725

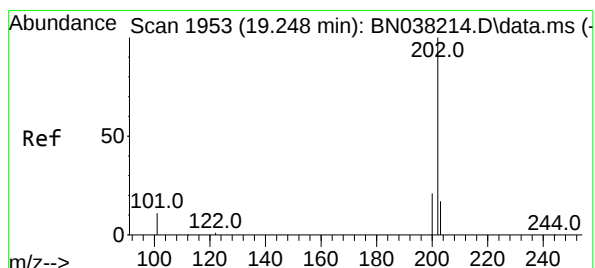
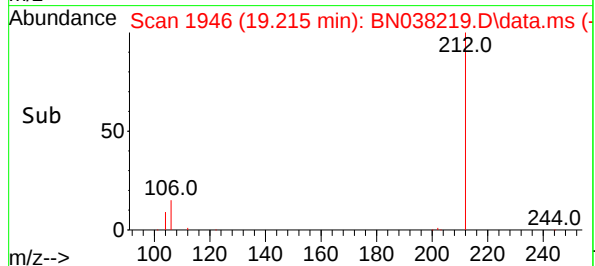
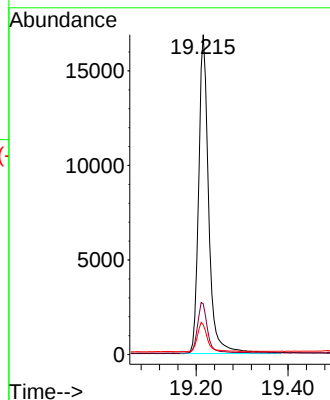
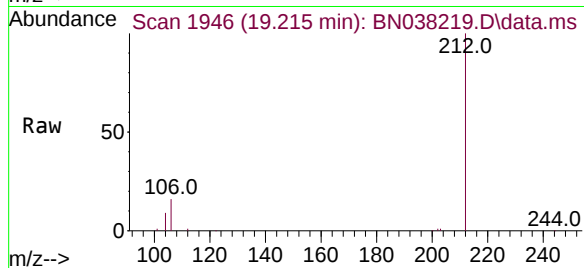
Tgt Ion:212 Resp: 25558

Ion Ratio Lower Upper

212 100

106 16.1 12.7 19.1

104 9.1 7.3 10.9



#28

Fluoranthene

Concen: 0.450 ng

RT: 19.243 min Scan# 1952

Delta R.T. -0.005 min

Lab File: BN038219.D

Acq: 27 Nov 2025 00:49

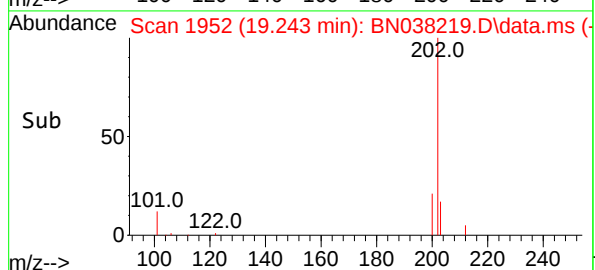
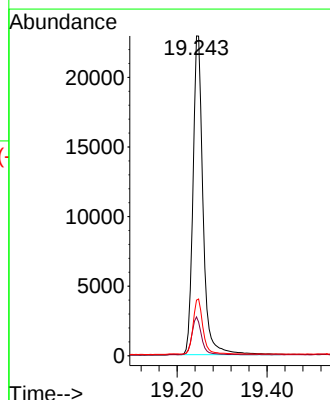
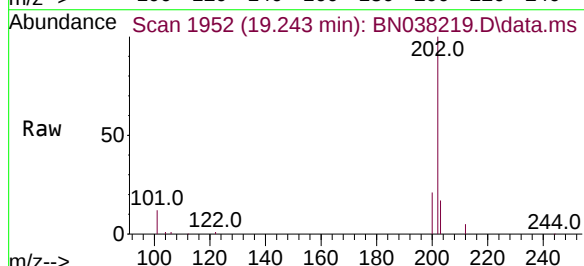
Tgt Ion:202 Resp: 35631

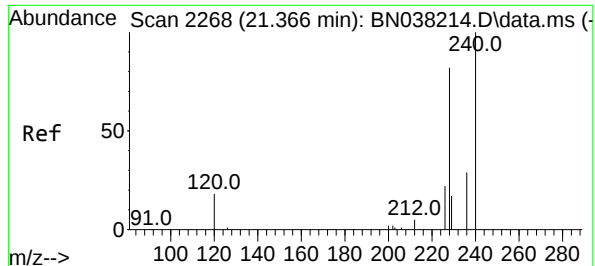
Ion Ratio Lower Upper

202 100

101 11.9 9.8 14.6

203 16.8 13.6 20.4





#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.366 min Scan# 21

Delta R.T. 0.000 min

Lab File: BN038219.D

Acq: 27 Nov 2025 00:49

Instrument :

BNA\_N

ClientSampleId :

ICVBN112725

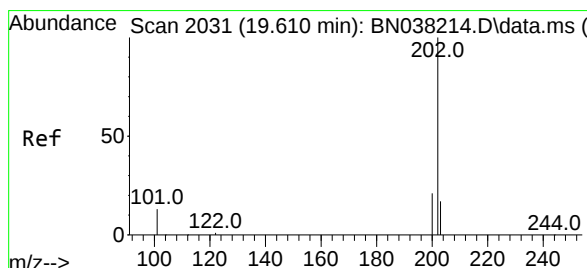
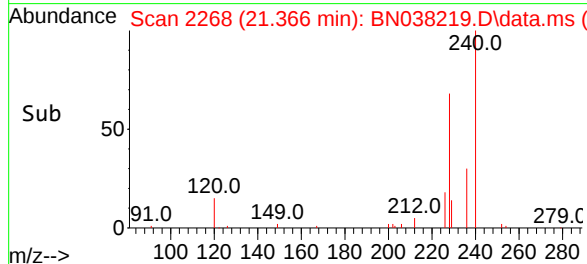
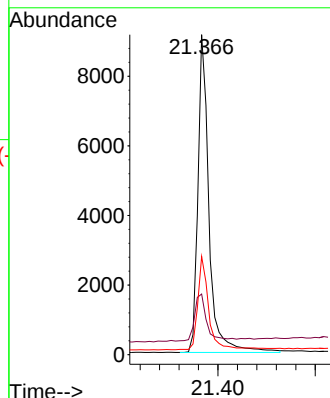
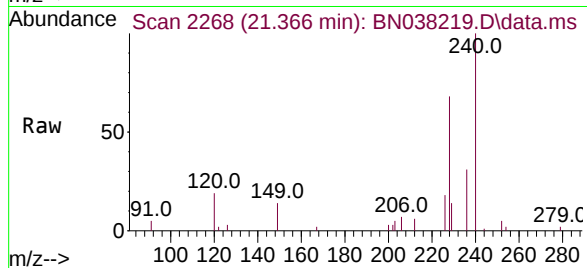
Tgt Ion:240 Resp: 14480

Ion Ratio Lower Upper

240 100

120 18.9 18.1 27.1

236 30.7 24.2 36.4



#30

Pyrene

Concen: 0.483 ng

RT: 19.610 min Scan# 2031

Delta R.T. 0.000 min

Lab File: BN038219.D

Acq: 27 Nov 2025 00:49

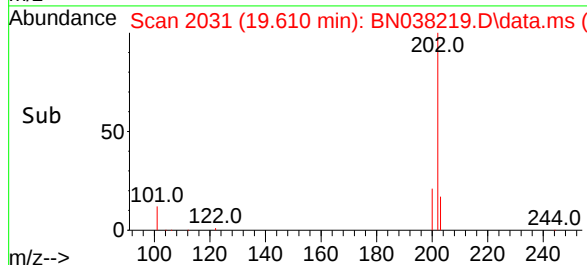
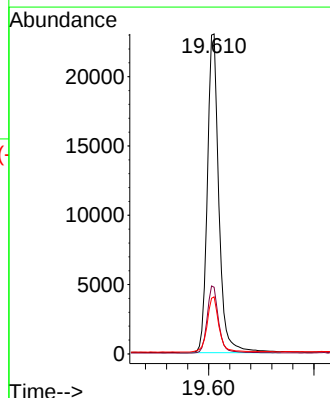
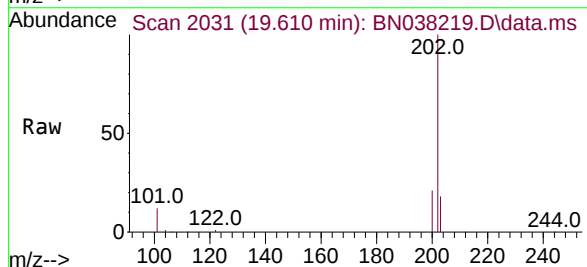
Tgt Ion:202 Resp: 34919

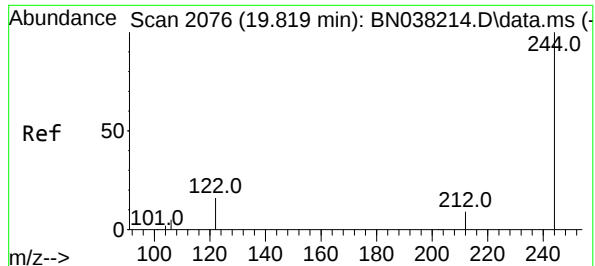
Ion Ratio Lower Upper

202 100

200 21.2 16.8 25.2

203 17.6 14.4 21.6

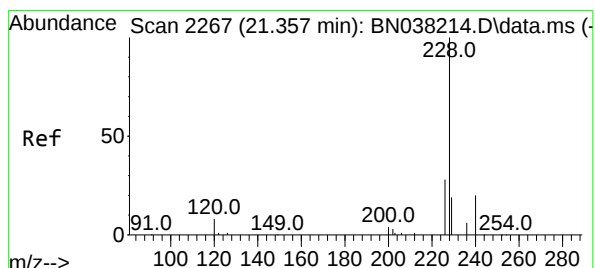
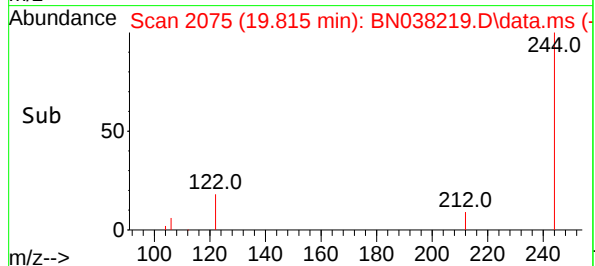
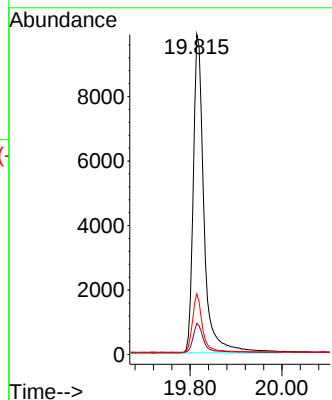
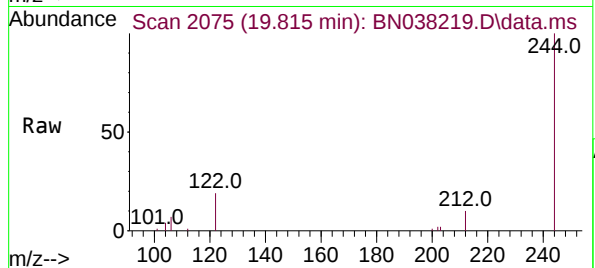




#31  
Terphenyl-d14  
Concen: 0.481 ng  
RT: 19.815 min Scan# 2076  
Delta R.T. -0.005 min  
Lab File: BN038219.D  
Acq: 27 Nov 2025 00:49

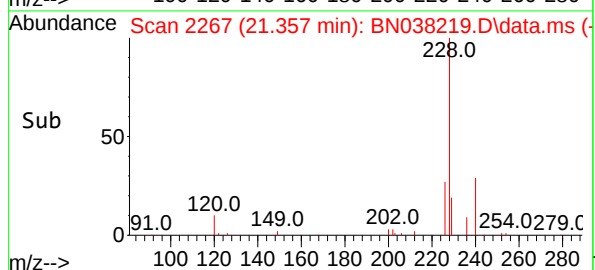
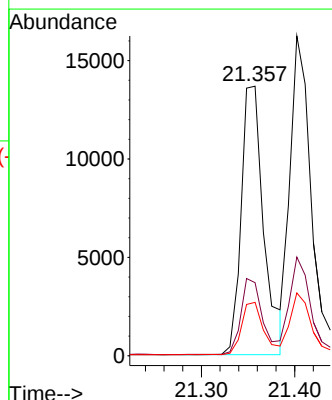
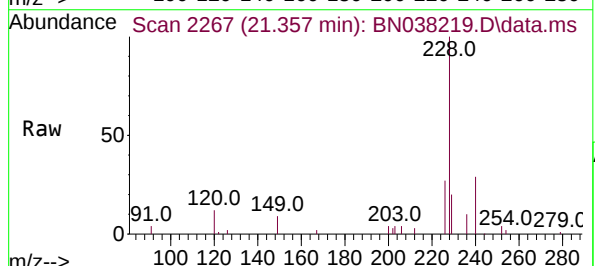
Instrument :  
BNA\_N  
ClientSampleId :  
ICVBN112725

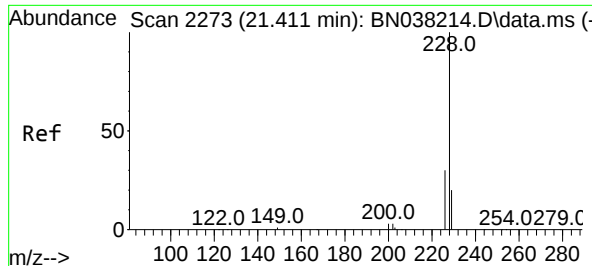
Tgt Ion:244 Resp: 16070  
Ion Ratio Lower Upper  
244 100  
212 9.7 7.7 11.5  
122 19.0 13.6 20.4



#32  
Benzo(a)anthracene  
Concen: 0.468 ng  
RT: 21.357 min Scan# 2267  
Delta R.T. 0.000 min  
Lab File: BN038219.D  
Acq: 27 Nov 2025 00:49

Tgt Ion:228 Resp: 22927  
Ion Ratio Lower Upper  
228 100  
226 27.2 22.6 33.8  
229 19.8 15.8 23.8





#33

Chrysene

Concen: 0.463 ng

RT: 21.402 min Scan# 21

Delta R.T. -0.009 min

Lab File: BN038219.D

Acq: 27 Nov 2025 00:49

Instrument :

BNA\_N

ClientSampleId :

ICVBN112725

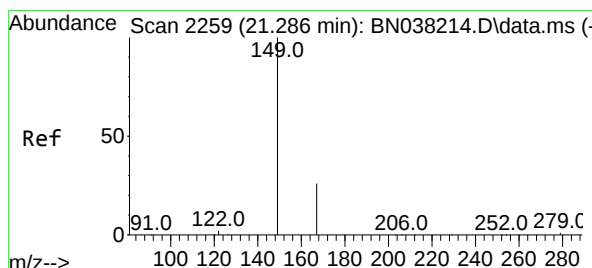
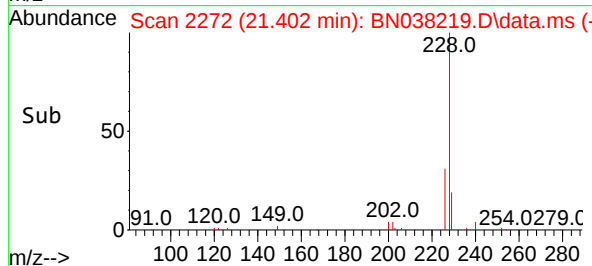
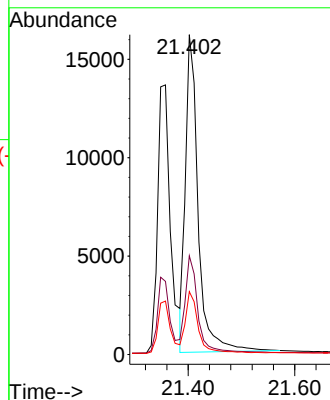
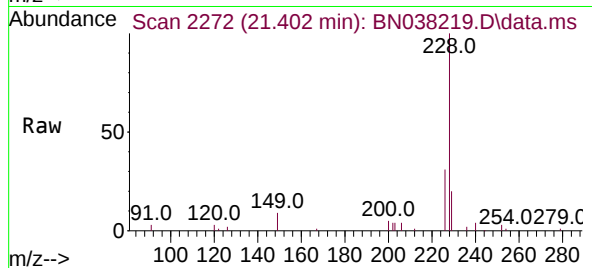
Tgt Ion:228 Resp: 26769

Ion Ratio Lower Upper

228 100

226 30.9 23.8 35.8

229 19.7 16.1 24.1



#34

Bis(2-ethylhexyl)phthalate

Concen: 0.462 ng

RT: 21.286 min Scan# 2259

Delta R.T. 0.000 min

Lab File: BN038219.D

Acq: 27 Nov 2025 00:49

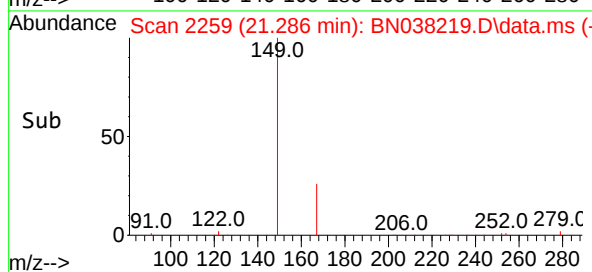
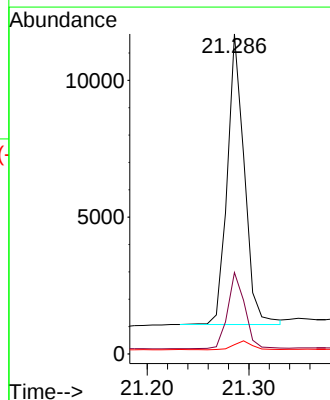
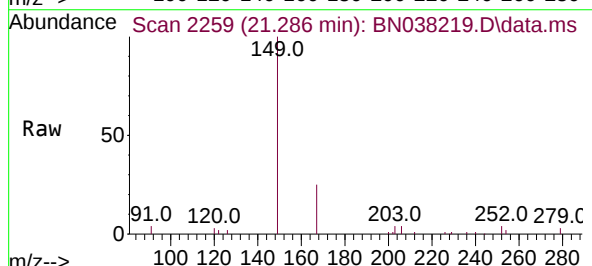
Tgt Ion:149 Resp: 12409

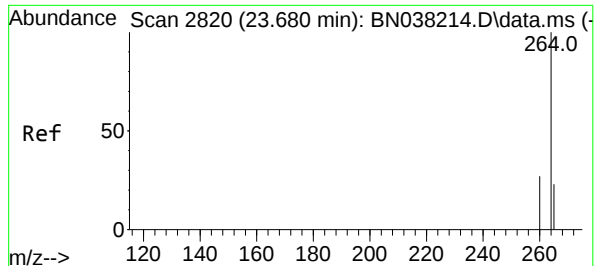
Ion Ratio Lower Upper

149 100

167 26.2 20.7 31.1

279 3.3 2.5 3.7





#35

Perylene-d12

Concen: 0.400 ng

RT: 23.677 min Scan# 2819

Delta R.T. -0.003 min

Lab File: BN038219.D

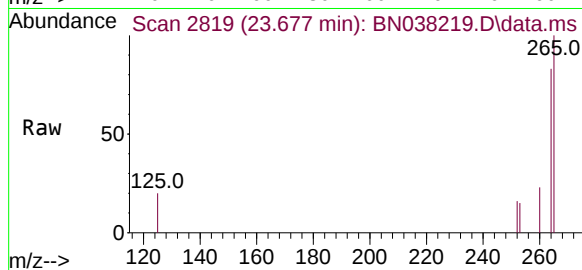
Acq: 27 Nov 2025 00:49

Instrument :

BNA\_N

ClientSampleId :

ICVBN112725



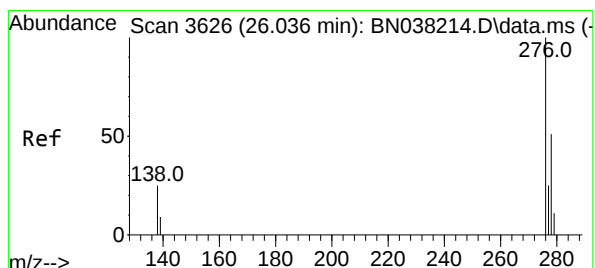
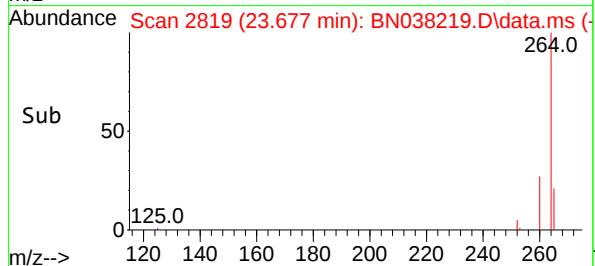
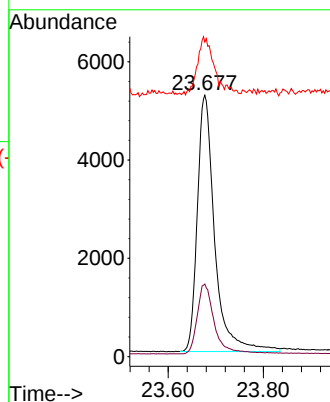
Tgt Ion:264 Resp: 13201

Ion Ratio Lower Upper

264 100

260 27.7 21.7 32.5

265 120.4 98.0 147.0



#36

Indeno(1,2,3-cd)pyrene

Concen: 0.468 ng

RT: 26.031 min Scan# 3624

Delta R.T. -0.006 min

Lab File: BN038219.D

Acq: 27 Nov 2025 00:49

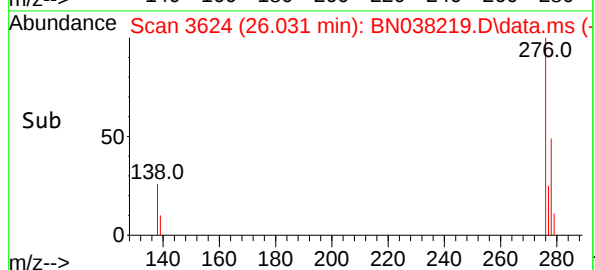
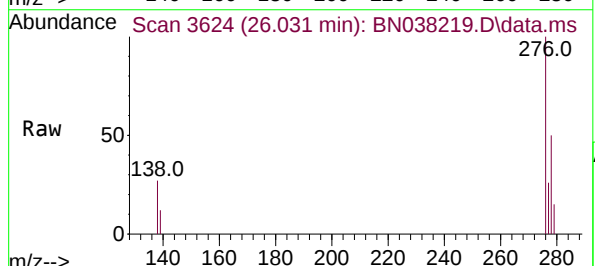
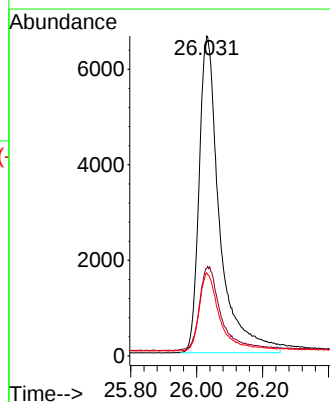
Tgt Ion:276 Resp: 28585

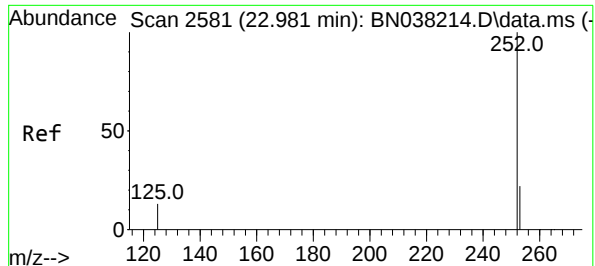
Ion Ratio Lower Upper

276 100

138 27.8 21.4 32.2

277 23.9 19.1 28.7





#37

Benzo(b)fluoranthene

Concen: 0.452 ng

RT: 22.978 min Scan# 2580

Delta R.T. -0.003 min

Lab File: BN038219.D

Acq: 27 Nov 2025 00:49

Instrument :

BNA\_N

ClientSampleId :

ICVBN112725

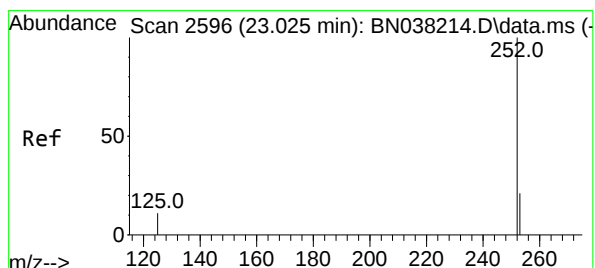
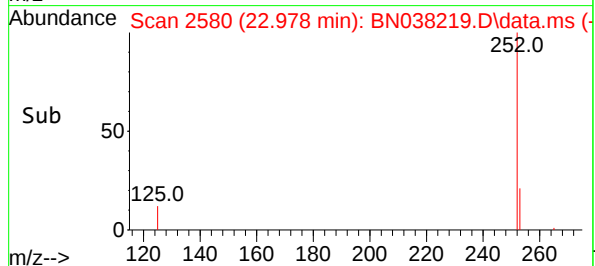
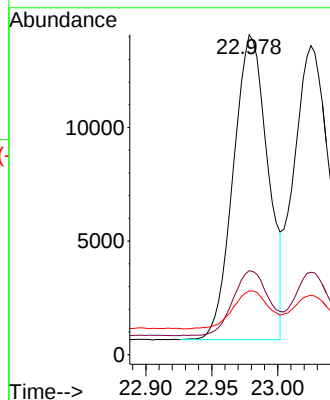
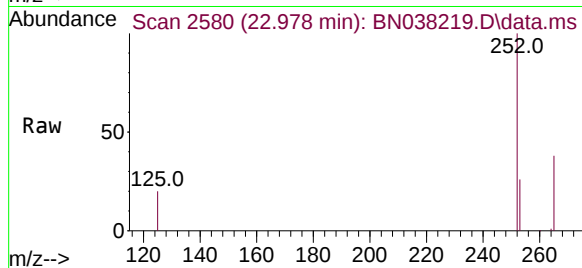
Tgt Ion:252 Resp: 24504

Ion Ratio Lower Upper

252 100

253 26.2 22.2 33.4

125 19.9 18.0 27.0



#38

Benzo(k)fluoranthene

Concen: 0.474 ng

RT: 23.025 min Scan# 2596

Delta R.T. 0.000 min

Lab File: BN038219.D

Acq: 27 Nov 2025 00:49

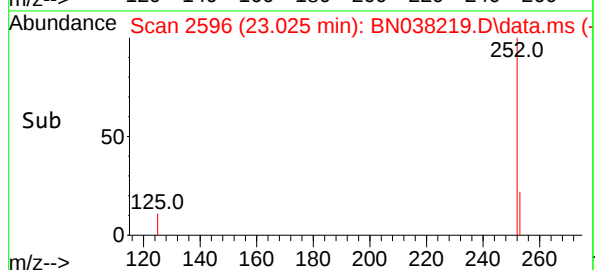
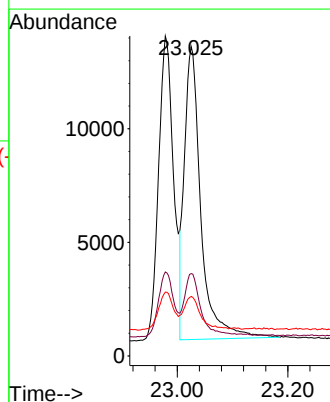
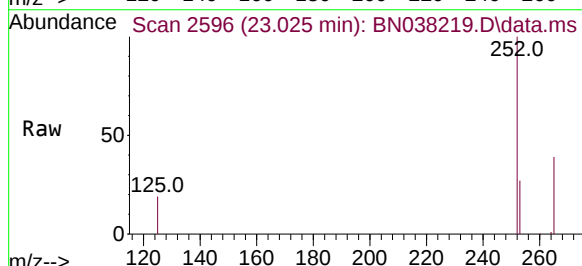
Tgt Ion:252 Resp: 26724

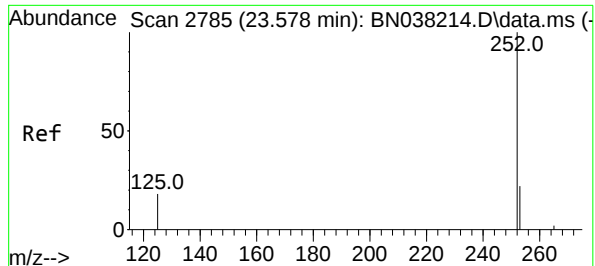
Ion Ratio Lower Upper

252 100

253 26.7 22.4 33.6

125 19.3 17.5 26.3





#39

Benzo(a)pyrene

Concen: 0.462 ng

RT: 23.578 min Scan# 21

Delta R.T. 0.000 min

Lab File: BN038219.D

Acq: 27 Nov 2025 00:49

Instrument :

BNA\_N

ClientSampleId :

ICVBN112725

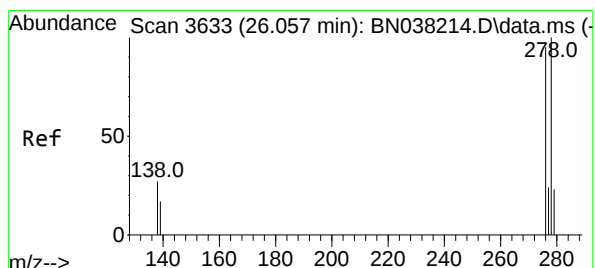
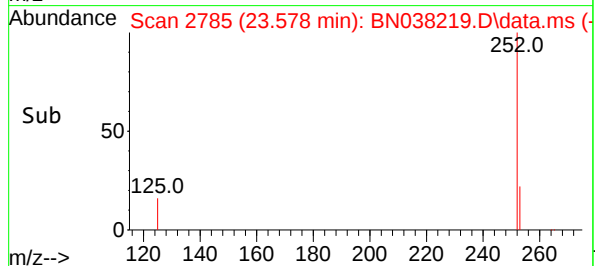
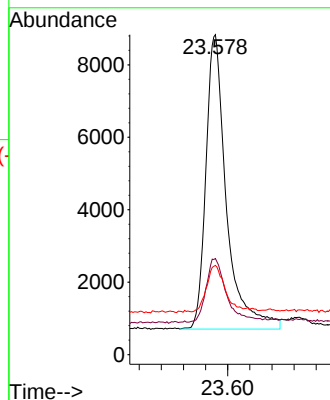
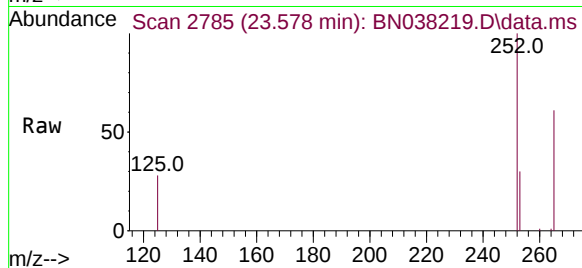
Tgt Ion:252 Resp: 20972

Ion Ratio Lower Upper

252 100

253 30.0 25.3 37.9

125 27.9 25.2 37.8



#40

Dibenzo(a,h)anthracene

Concen: 0.475 ng

RT: 26.051 min Scan# 3631

Delta R.T. -0.006 min

Lab File: BN038219.D

Acq: 27 Nov 2025 00:49

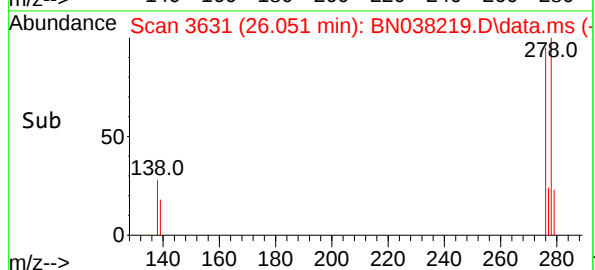
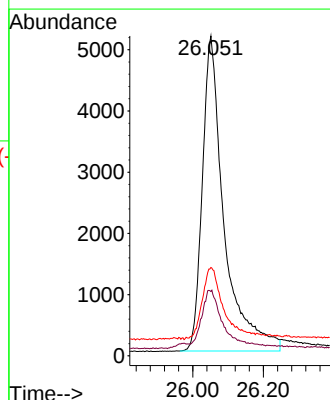
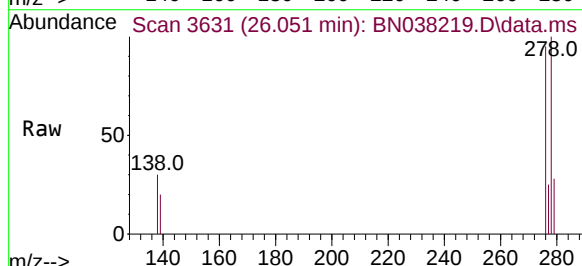
Tgt Ion:278 Resp: 21955

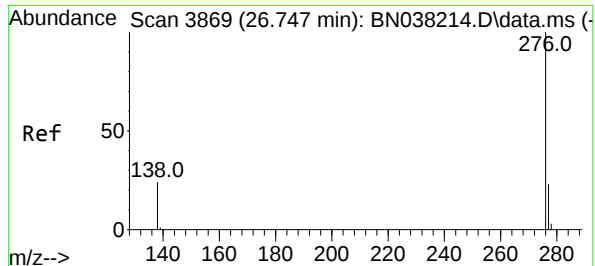
Ion Ratio Lower Upper

278 100

139 20.1 17.6 26.4

279 27.6 24.2 36.4





#41

Benzo(g,h,i)perylene

Concen: 0.461 ng

RT: 26.744 min Scan# 38

Delta R.T. -0.003 min

Lab File: BN038219.D

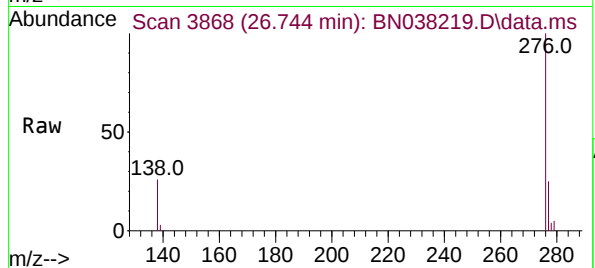
Acq: 27 Nov 2025 00:49

Instrument :

BNA\_N

ClientSampleId :

ICVBN112725



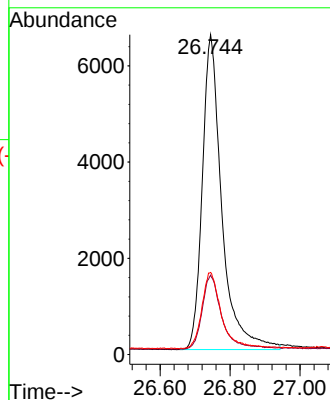
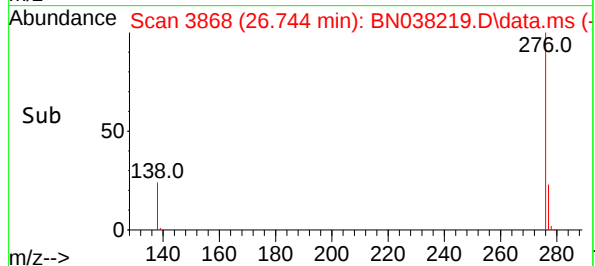
Tgt Ion:276 Resp: 25311

Ion Ratio Lower Upper

276 100

277 24.8 20.2 30.2

138 25.7 20.8 31.2



Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN112725\  
Data File : BN038219.D  
Acq On : 27 Nov 2025 00:49  
Operator : RC/JU  
Sample : SSTDICV0.4  
Misc :  
ALS Vial : 19 Sample Multiplier: 1

Instrument :  
BNA\_N  
ClientSampleId :  
ICVBN112725

Quant Time: Nov 28 20:56:34 2025  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\8270-SIM-BN112725.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Fri Nov 28 20:22:09 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    | 111   | 0.00     |
| 2       | 1,4-Dioxane                | 0.421 | 0.461 | -9.5   | 114   | 0.00     |
| 3       | n-Nitrosodimethylamine     | 0.520 | 0.566 | -8.8   | 116   | 0.00     |
| 4 S     | 2-Fluorophenol             | 0.935 | 1.134 | -21.3  | 127   | 0.00     |
| 5 S     | Phenol-d6                  | 1.168 | 1.540 | -31.8# | 141   | 0.00     |
| 6       | bis(2-Chloroethyl)ether    | 1.118 | 1.337 | -19.6  | 125   | 0.00     |
| 7 I     | Naphthalene-d8             | 1.000 | 1.000 | 0.0    | 113   | 0.00     |
| 8 S     | Nitrobenzene-d5            | 0.320 | 0.338 | -5.6   | 123   | 0.00     |
| 9       | Naphthalene                | 1.111 | 1.258 | -13.2  | 123   | 0.00     |
| 10      | Hexachlorobutadiene        | 0.189 | 0.210 | -11.1  | 119   | 0.00     |
| 11 SURR | 2-Methylnaphthalene-d10    | 0.568 | 0.669 | -17.8  | 129   | 0.00     |
| 12      | 2-Methylnaphthalene        | 0.731 | 0.854 | -16.8  | 127   | 0.00     |
| 13 I    | Acenaphthene-d10           | 1.000 | 1.000 | 0.0    | 118   | 0.00     |
| 14 S    | 2,4,6-Tribromophenol       | 0.126 | 0.158 | -25.4# | 151#  | 0.00     |
| 15 S    | 2-Fluorobiphenyl           | 1.545 | 1.791 | -15.9  | 132   | 0.00     |
| 16      | Acenaphthylene             | 1.789 | 1.969 | -10.1  | 129   | 0.00     |
| 17      | Acenaphthene               | 1.247 | 1.422 | -14.0  | 129   | 0.00     |
| 18      | Fluorene                   | 1.614 | 1.866 | -15.6  | 133   | 0.00     |
| 19 I    | Phenanthrene-d10           | 1.000 | 1.000 | 0.0    | 120   | 0.00     |
| 20      | 4,6-Dinitro-2-methylphenol | 0.042 | 0.051 | -21.4  | 234#  | -0.01    |
| 21      | 4-Bromophenyl-phenylether  | 0.277 | 0.318 | -14.8  | 134   | 0.00     |
| 22      | Hexachlorobenzene          | 0.341 | 0.387 | -13.5  | 129   | 0.00     |
| 23      | Atrazine                   | 0.177 | 0.184 | -4.0   | 126   | 0.00     |
| 24      | Pentachlorophenol          | 0.093 | 0.142 | -52.7# | 202#  | 0.00     |
| 25      | Phenanthrene               | 1.256 | 1.416 | -12.7  | 129   | 0.00     |
| 26      | Anthracene                 | 1.071 | 1.197 | -11.8  | 134   | 0.00     |
| 27 SURR | Fluoranthene-d10           | 0.868 | 0.977 | -12.6  | 131   | 0.00     |
| 28      | Fluoranthene               | 1.210 | 1.362 | -12.6  | 133   | 0.00     |
| 29 I    | Chrysene-d12               | 1.000 | 1.000 | 0.0    | 113   | 0.00     |
| 30      | Pyrene                     | 1.998 | 2.412 | -20.7  | 131   | 0.00     |
| 31 S    | Terphenyl-d14              | 0.924 | 1.110 | -20.1  | 130   | 0.00     |
| 32      | Benzo(a)anthracene         | 1.355 | 1.583 | -16.8  | 131   | 0.00     |
| 33      | Chrysene                   | 1.599 | 1.849 | -15.6  | 126   | 0.00     |
| 34      | Bis(2-ethylhexyl)phthalate | 0.742 | 0.857 | -15.5  | 121   | 0.00     |
| 35 I    | Perylene-d12               | 1.000 | 1.000 | 0.0    | 110   | 0.00     |
| 36      | Indeno(1,2,3-cd)pyrene     | 1.851 | 2.165 | -17.0  | 127   | 0.00     |
| 37      | Benzo(b)fluoranthene       | 1.642 | 1.856 | -13.0  | 120   | 0.00     |
| 38      | Benzo(k)fluoranthene       | 1.707 | 2.024 | -18.6  | 127   | 0.00     |
| 39 C    | Benzo(a)pyrene             | 1.376 | 1.589 | -15.5  | 127   | 0.00     |
| 40      | Dibenzo(a,h)anthracene     | 1.401 | 1.663 | -18.7  | 133   | 0.00     |
| 41      | Benzo(g,h,i)perylene       | 1.674 | 1.917 | -14.5  | 123   | 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: Alliance Contract: TETR06  
 Lab Code: ACE SDG No.: Q3691  
 Instrument ID: BNA\_N Calibration Date/Time: 12/01/2025 17:51  
 Lab File ID: BN038230.D Init. Calib. Date(s): 11/26/2025 11/27/2025  
 EPA Sample No.: SSTDCCC0.4 Init. Calib. Time(s): 20:35 00:13  
 GC Column: ZB-GR ID: 0.25 (mm)

| COMPOUND                | RRF   | RRF0.4 | MIN<br>RRF | %D   | MAX%D |
|-------------------------|-------|--------|------------|------|-------|
| 2-Methylnaphthalene-d10 | 0.568 | 0.591  |            | 4.0  | 20.0  |
| Fluoranthene-d10        | 0.868 | 0.851  |            | -2.0 | 20.0  |
| 2-Fluorophenol          | 0.935 | 0.944  |            | 1.0  | 20.0  |
| Phenol-d6               | 1.168 | 1.204  |            | 3.1  | 20.0  |
| Nitrobenzene-d5         | 0.320 | 0.317  |            | -0.9 | 20.0  |
| 2-Fluorobiphenyl        | 1.545 | 1.656  |            | 7.2  | 20.0  |
| 2,4,6-Tribromophenol    | 0.126 | 0.139  |            | 10.3 | 20.0  |
| Terphenyl-d14           | 0.924 | 0.961  |            | 4.0  | 20.0  |
| 1,4-Dioxane             | 0.421 | 0.451  |            | 7.1  | 20.0  |

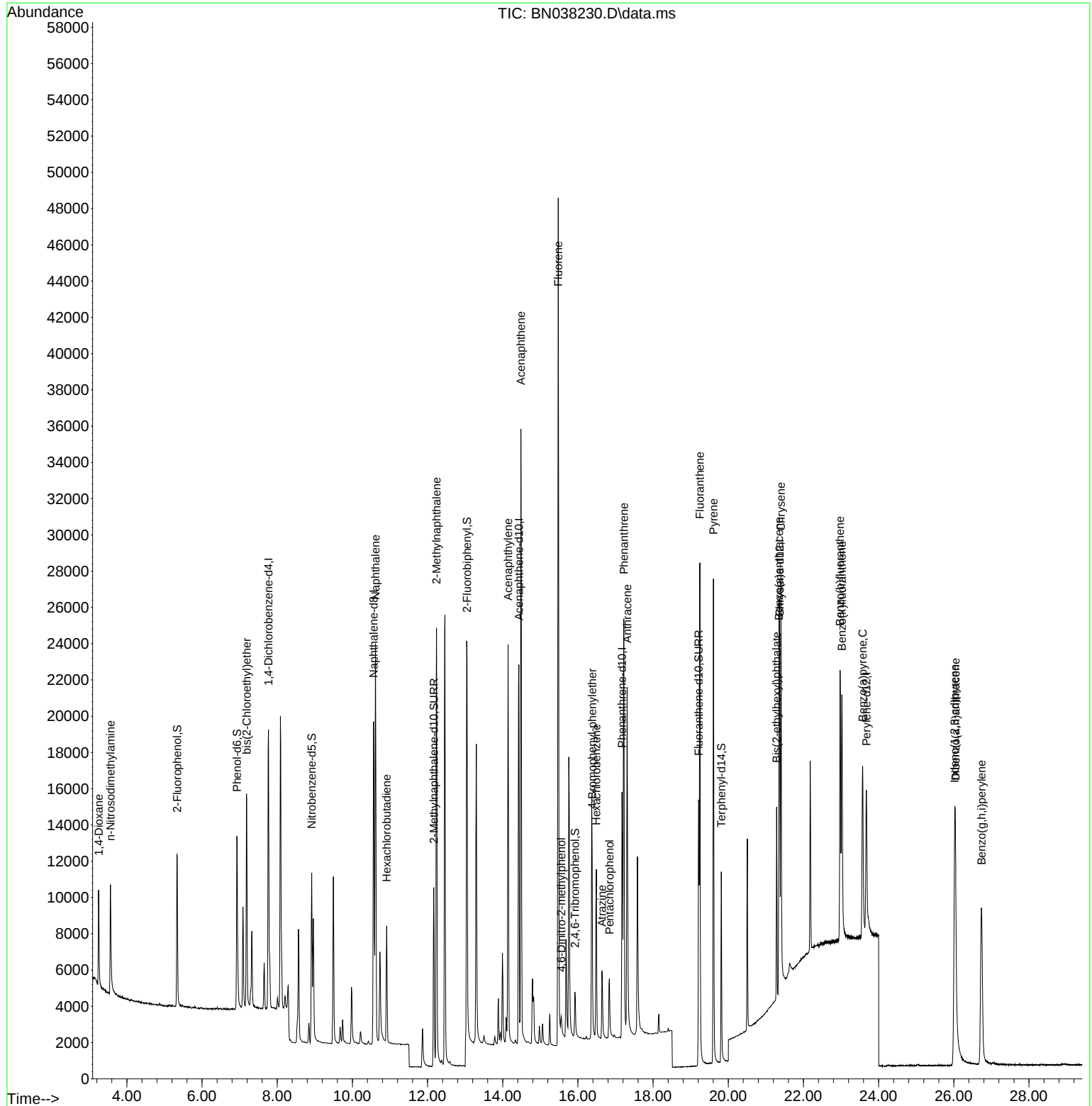
All other compounds must meet a minimum RRF of 0.010.

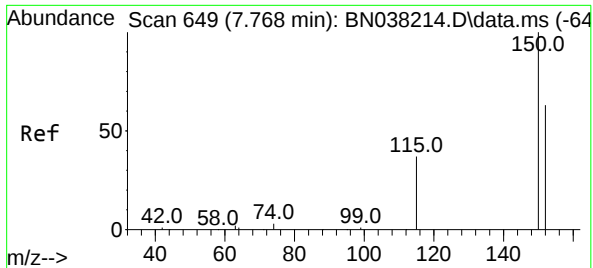


Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN120125\  
Data File : BN038230.D  
Acq On : 01 Dec 2025 17:51  
Operator : RC/JU  
Sample : SSTDCCC0.4  
Misc :  
ALS Vial : 2 Sample Multiplier: 1

Instrument :  
BNA\_N  
ClientSampleId :  
SSTDCCC0.4

Quant Time: Dec 01 18:21:10 2025  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\8270-SIM-BN112725.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Fri Nov 28 21:04:10 2025  
Response via : Initial Calibration

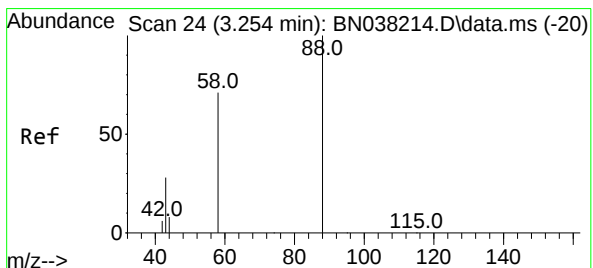
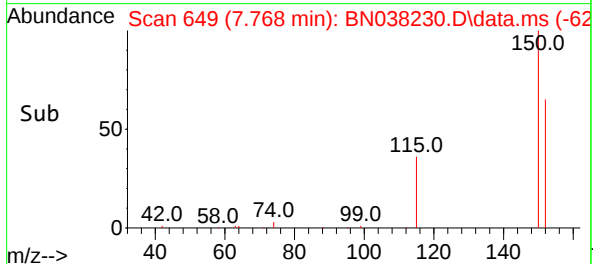
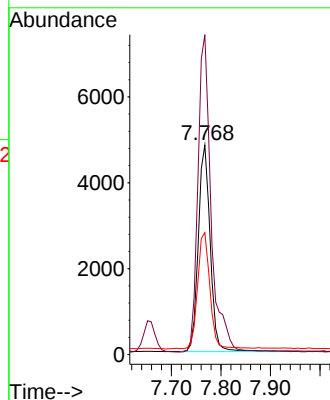
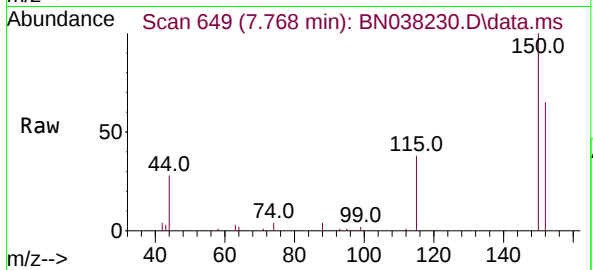




#1  
1,4-Dichlorobenzene-d4  
Concen: 0.400 ng  
RT: 7.768 min Scan# 64  
Delta R.T. -0.000 min  
Lab File: BN038230.D  
Acq: 01 Dec 2025 17:51

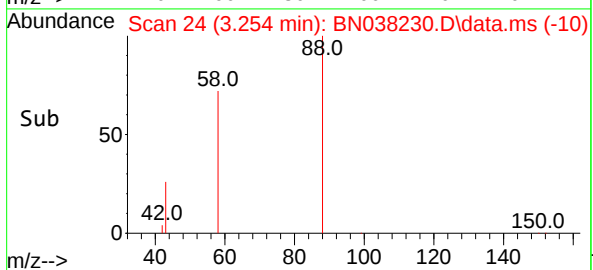
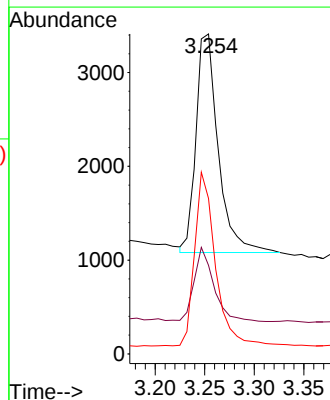
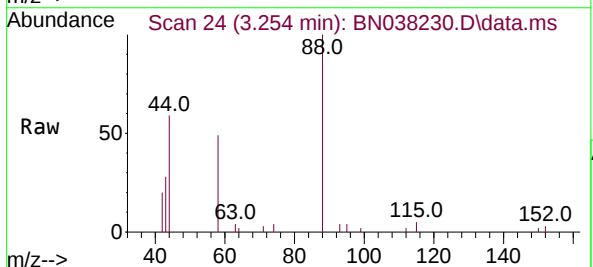
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDCCC0.4

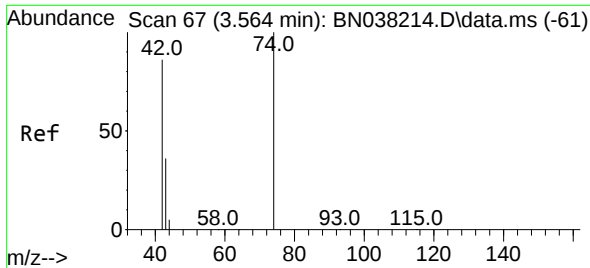
Tgt Ion:152 Resp: 8054  
Ion Ratio Lower Upper  
152 100  
150 152.8 125.3 187.9  
115 58.3 49.0 73.4



#2  
1,4-Dioxane  
Concen: 0.428 ng  
RT: 3.254 min Scan# 24  
Delta R.T. 0.000 min  
Lab File: BN038230.D  
Acq: 01 Dec 2025 17:51

Tgt Ion: 88 Resp: 3634  
Ion Ratio Lower Upper  
88 100  
43 30.2 24.8 37.2  
58 75.3 61.1 91.7

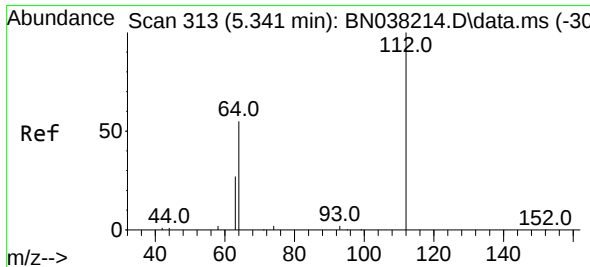
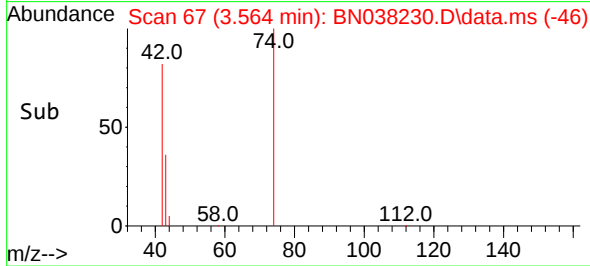
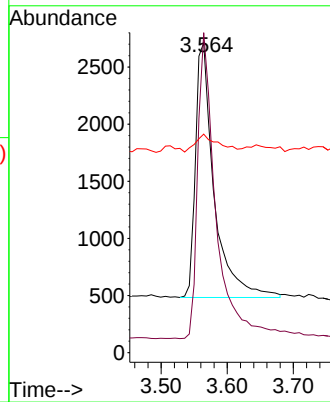
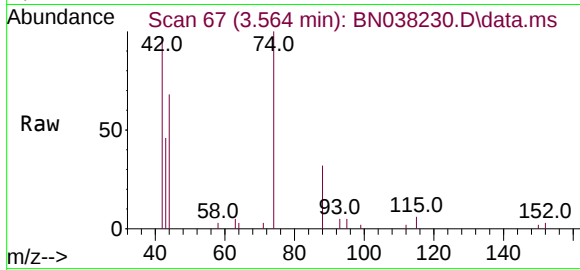




#3  
n-Nitrosodimethylamine  
Concen: 0.416 ng  
RT: 3.564 min Scan# 61  
Delta R.T. 0.000 min  
Lab File: BN038230.D  
Acq: 01 Dec 2025 17:51

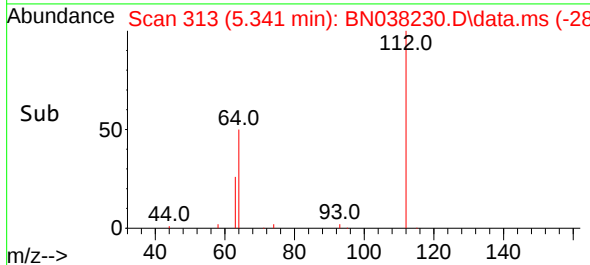
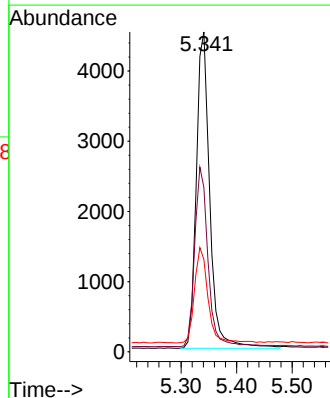
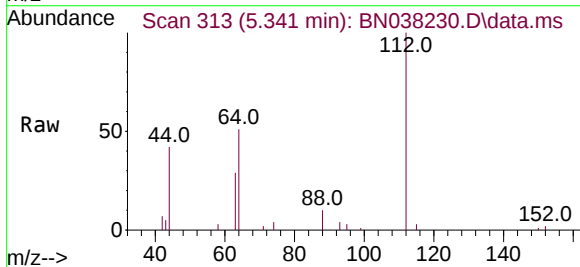
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDCCC0.4

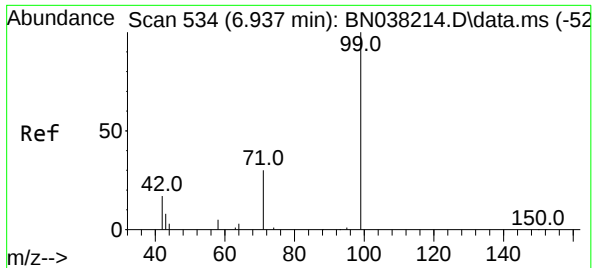
Tgt Ion: 42 Resp: 4349  
Ion Ratio Lower Upper  
42 100  
74 118.4 96.2 144.2  
44 8.3 8.0 12.0



#4  
2-Fluorophenol  
Concen: 0.404 ng  
RT: 5.341 min Scan# 313  
Delta R.T. 0.000 min  
Lab File: BN038230.D  
Acq: 01 Dec 2025 17:51

Tgt Ion: 112 Resp: 7599  
Ion Ratio Lower Upper  
112 100  
64 56.4 45.0 67.4  
63 30.4 23.2 34.8

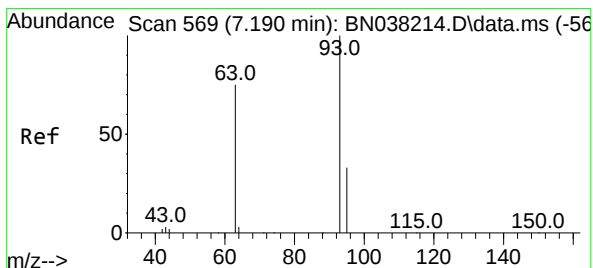
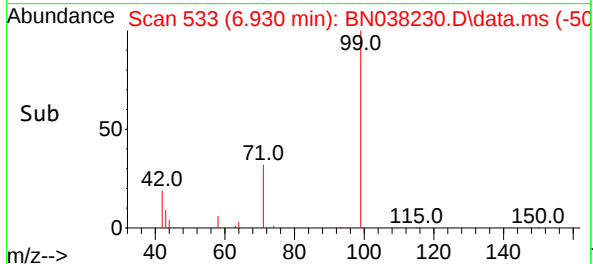
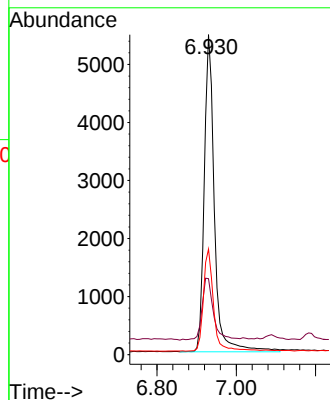
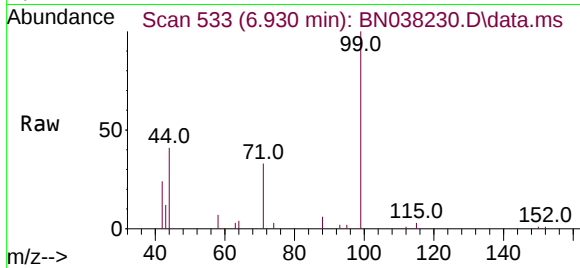




#5  
Phenol-d6  
Concen: 0.412 ng  
RT: 6.930 min Scan# 534  
Delta R.T. -0.007 min  
Lab File: BN038230.D  
Acq: 01 Dec 2025 17:51

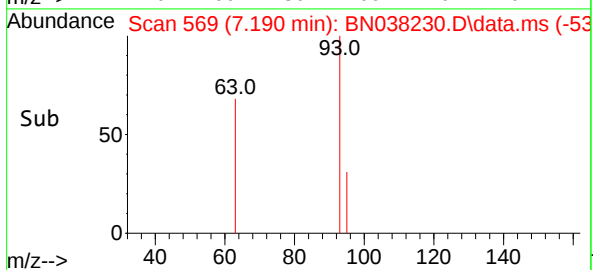
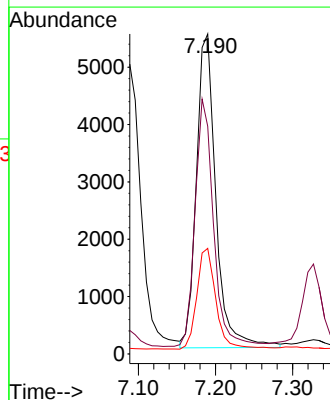
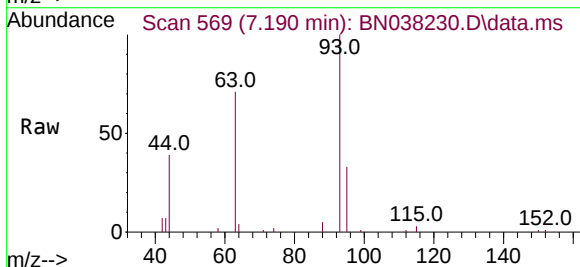
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BNA\_N  
ClientSampleId :  
SSTDCCC0.4

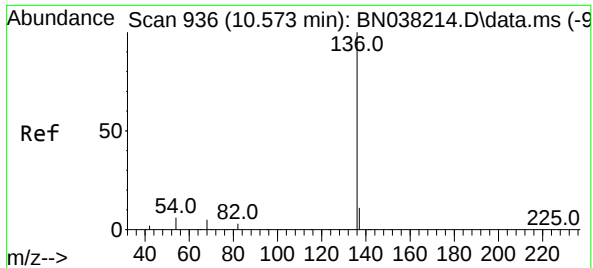
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 99    | Resp: | 9694  |
| Ion      | Ratio | Lower | Upper |
| 99       | 100   |       |       |
| 42       | 22.0  | 17.0  | 25.6  |
| 71       | 31.9  | 25.4  | 38.2  |



#6  
bis(2-Chloroethyl)ether  
Concen: 0.428 ng  
RT: 7.190 min Scan# 569  
Delta R.T. 0.000 min  
Lab File: BN038230.D  
Acq: 01 Dec 2025 17:51

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 93    | Resp: | 9627  |
| Ion      | Ratio | Lower | Upper |
| 93       | 100   |       |       |
| 63       | 74.5  | 58.1  | 87.1  |
| 95       | 31.3  | 25.1  | 37.7  |

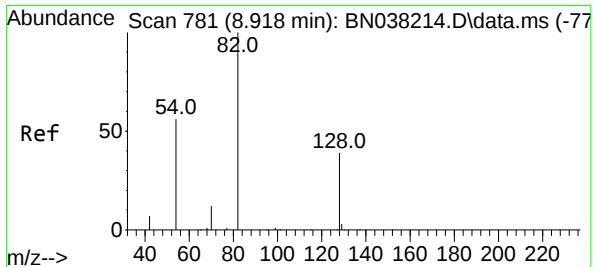
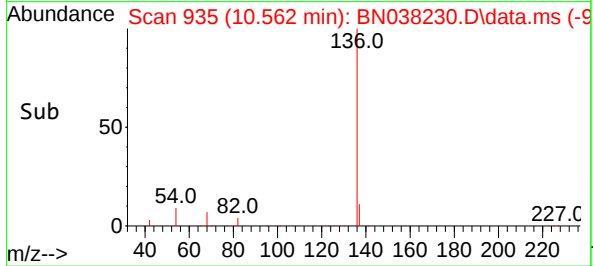
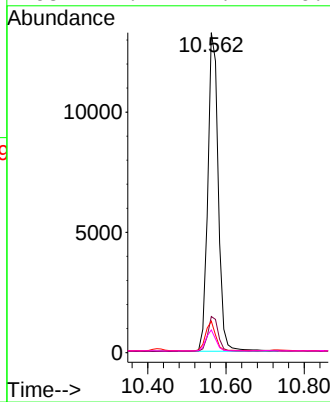
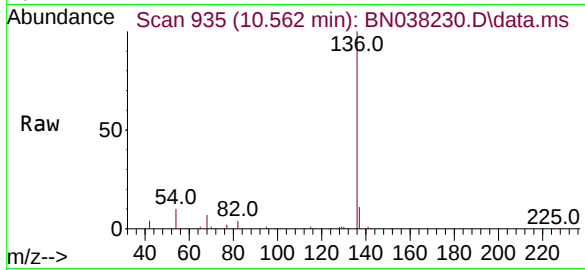




#7  
Naphthalene-d8  
Concen: 0.400 ng  
RT: 10.562 min Scan# 936  
Delta R.T. -0.011 min  
Lab File: BN038230.D  
Acq: 01 Dec 2025 17:51

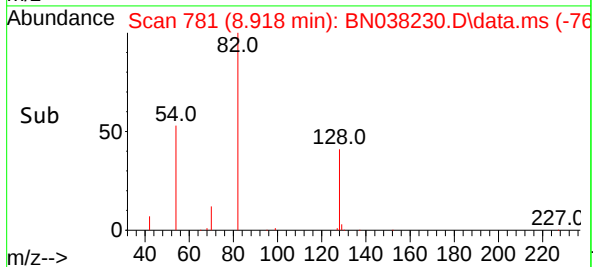
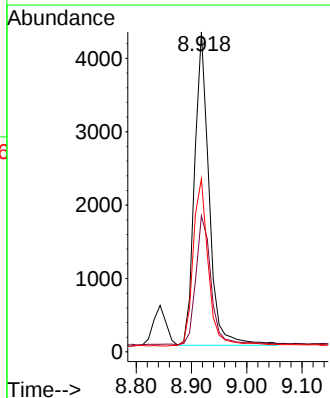
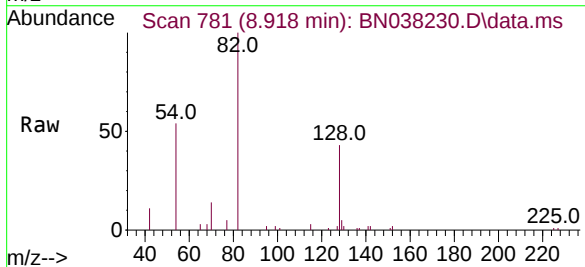
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDCCC0.4

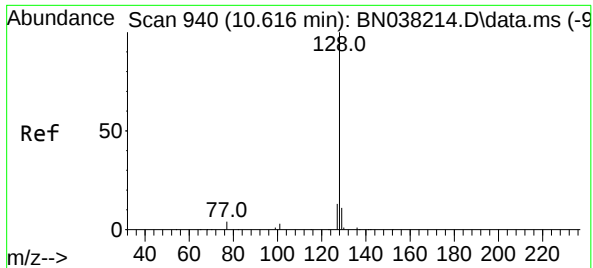
|             |       |          |
|-------------|-------|----------|
| Tgt Ion:136 | Resp: | 24560    |
| Ion Ratio   | Lower | Upper    |
| 136         | 100   |          |
| 137         | 11.3  | 8.9 13.3 |
| 54          | 9.8   | 5.4 8.0# |
| 68          | 7.1   | 4.1 6.1# |



#8  
Nitrobenzene-d5  
Concen: 0.396 ng  
RT: 8.918 min Scan# 781  
Delta R.T. 0.000 min  
Lab File: BN038230.D  
Acq: 01 Dec 2025 17:51

|             |       |           |
|-------------|-------|-----------|
| Tgt Ion: 82 | Resp: | 7786      |
| Ion Ratio   | Lower | Upper     |
| 82          | 100   |           |
| 128         | 42.5  | 32.6 48.8 |
| 54          | 54.1  | 45.4 68.0 |

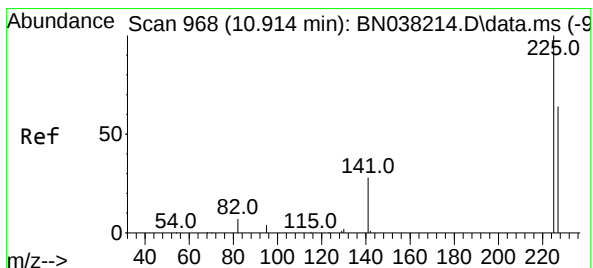
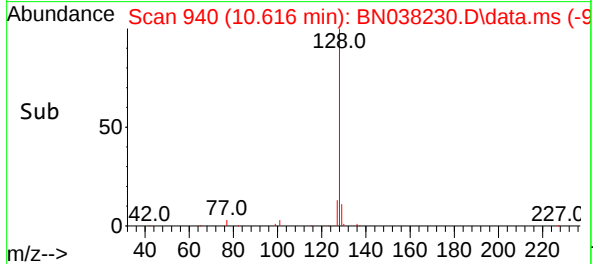
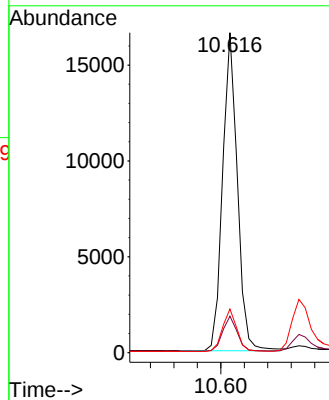
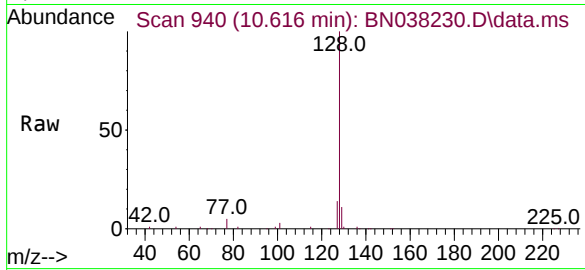




#9  
Naphthalene  
Concen: 0.424 ng  
RT: 10.616 min Scan# 940  
Delta R.T. 0.000 min  
Lab File: BN038230.D  
Acq: 01 Dec 2025 17:51

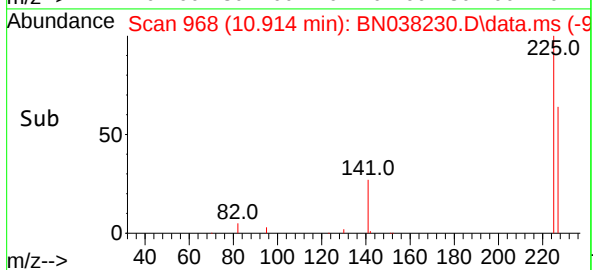
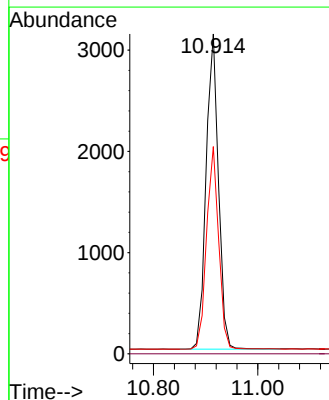
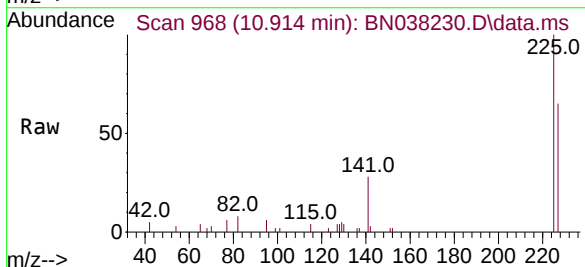
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDCCC0.4

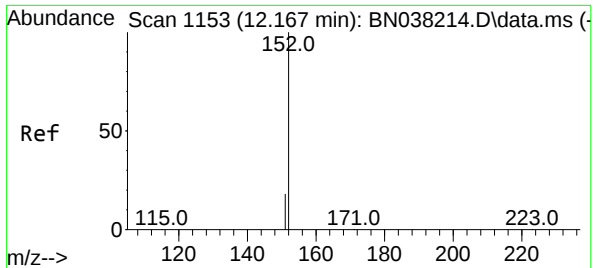
|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 128   | Resp: | 28944 |
| Ion Ratio | Lower | Upper |       |
| 128       | 100   |       |       |
| 129       | 11.4  | 9.1   | 13.7  |
| 127       | 13.6  | 10.6  | 16.0  |



#10  
Hexachlorobutadiene  
Concen: 0.442 ng  
RT: 10.914 min Scan# 968  
Delta R.T. 0.000 min  
Lab File: BN038230.D  
Acq: 01 Dec 2025 17:51

|           |       |       |      |
|-----------|-------|-------|------|
| Tgt Ion:  | 225   | Resp: | 5122 |
| Ion Ratio | Lower | Upper |      |
| 225       | 100   |       |      |
| 223       | 0.0   | 0.0   | 0.0  |
| 227       | 63.0  | 50.5  | 75.7 |

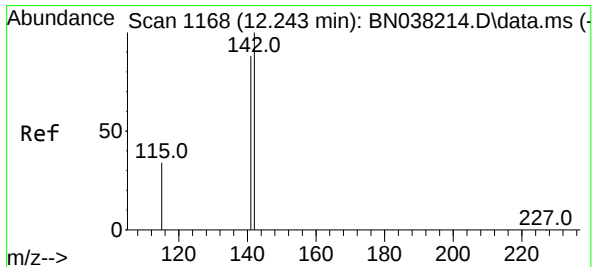
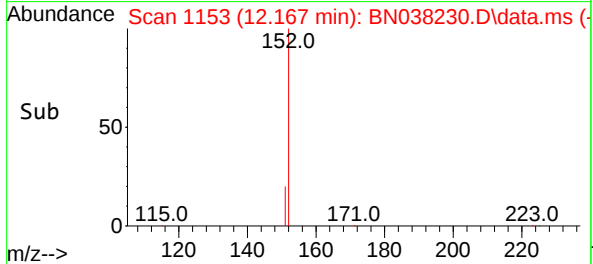
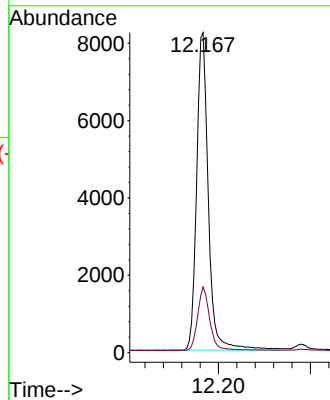
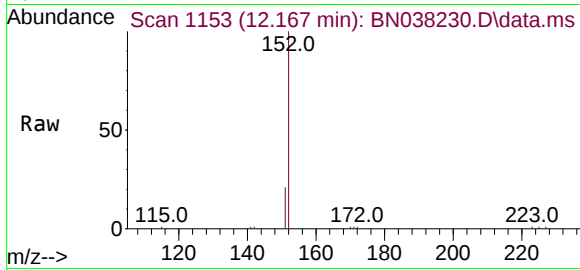




#11  
2-Methylnaphthalene-d10  
Concen: 0.416 ng  
RT: 12.167 min Scan# 1153  
Delta R.T. 0.000 min  
Lab File: BN038230.D  
Acq: 01 Dec 2025 17:51

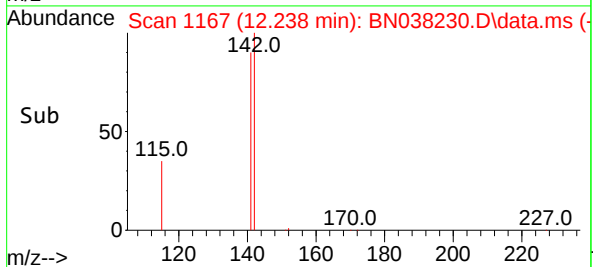
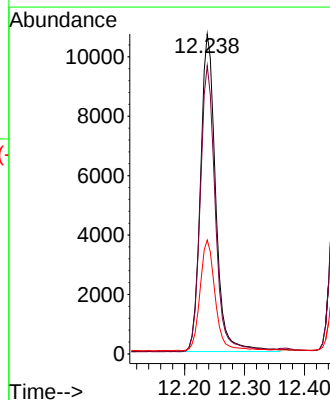
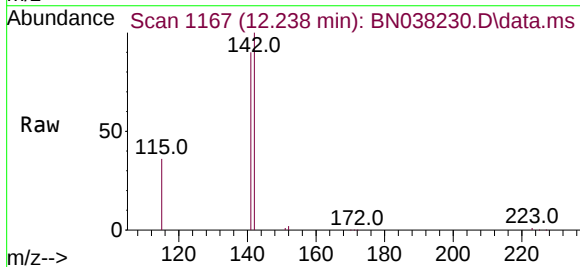
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDCCC0.4

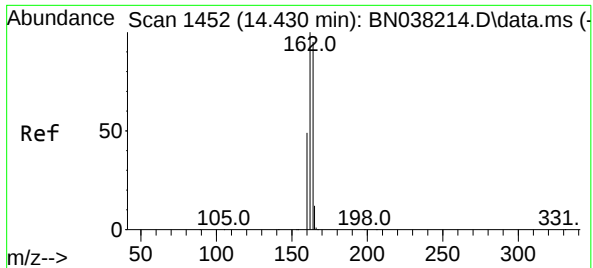
Tgt Ion:152 Resp: 14508  
Ion Ratio Lower Upper  
152 100  
151 20.7 16.7 25.1



#12  
2-Methylnaphthalene  
Concen: 0.419 ng  
RT: 12.238 min Scan# 1167  
Delta R.T. -0.005 min  
Lab File: BN038230.D  
Acq: 01 Dec 2025 17:51

Tgt Ion:142 Resp: 18811  
Ion Ratio Lower Upper  
142 100  
141 90.1 70.9 106.3  
115 35.6 27.7 41.5

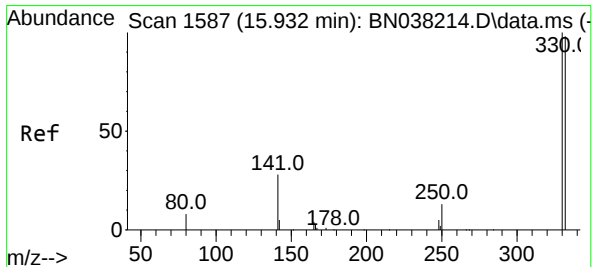
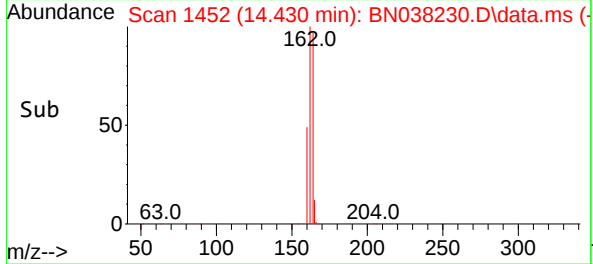
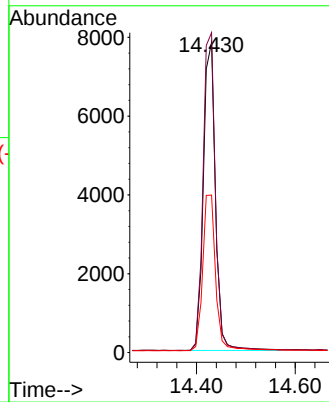
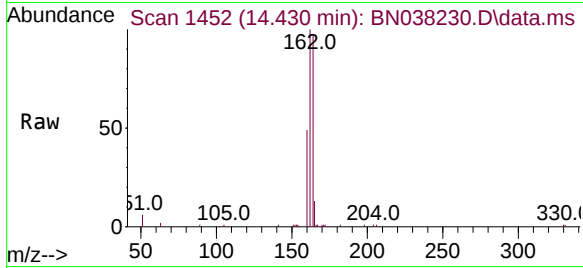




#13  
Acenaphthene-d10  
Concen: 0.400 ng  
RT: 14.430 min Scan# 1452  
Delta R.T. 0.000 min  
Lab File: BN038230.D  
Acq: 01 Dec 2025 17:51

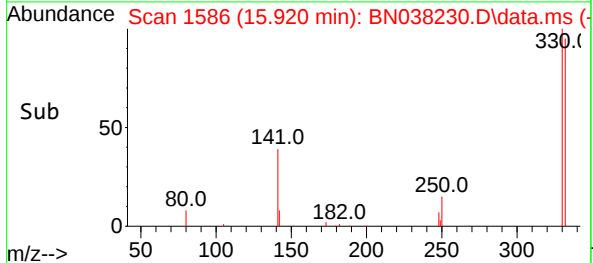
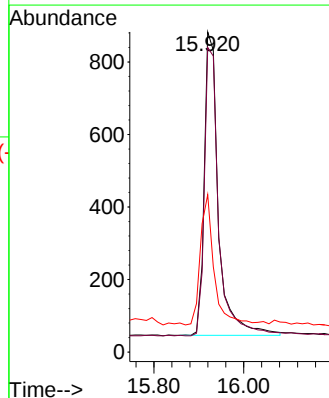
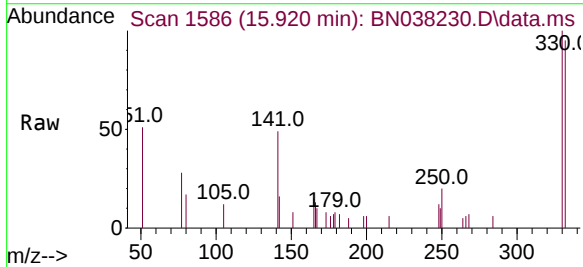
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDCCC0.4

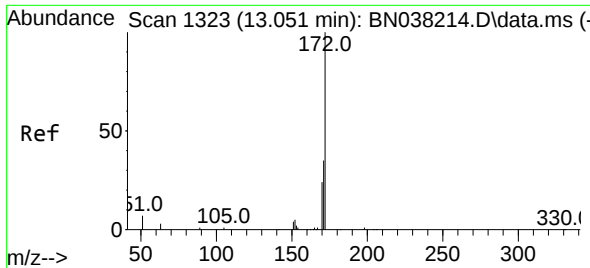
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 164     | 100   |       |       |
| 162     | 103.2 | 83.8  | 125.8 |
| 160     | 50.8  | 41.6  | 62.4  |



#14  
2,4,6-Tribromophenol  
Concen: 0.440 ng  
RT: 15.920 min Scan# 1586  
Delta R.T. -0.012 min  
Lab File: BN038230.D  
Acq: 01 Dec 2025 17:51

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 330     | 100   |       |       |
| 332     | 96.5  | 77.8  | 116.6 |
| 141     | 41.4  | 33.0  | 49.4  |

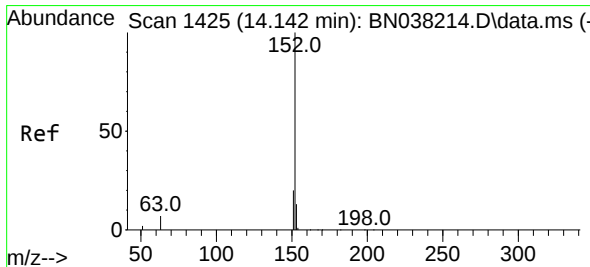
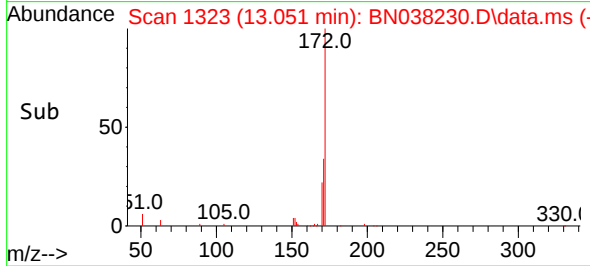
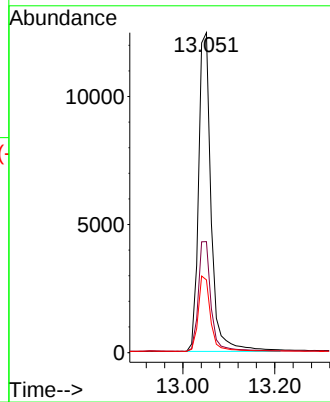
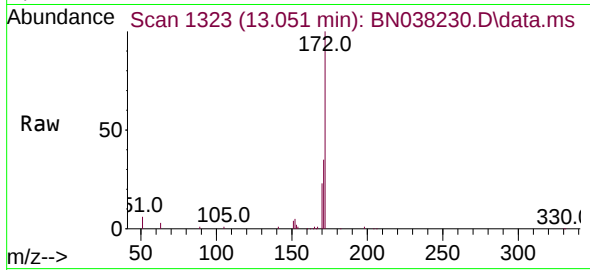




#15  
2-Fluorobiphenyl  
Concen: 0.429 ng  
RT: 13.051 min Scan# 1323  
Delta R.T. 0.000 min  
Lab File: BN038230.D  
Acq: 01 Dec 2025 17:51

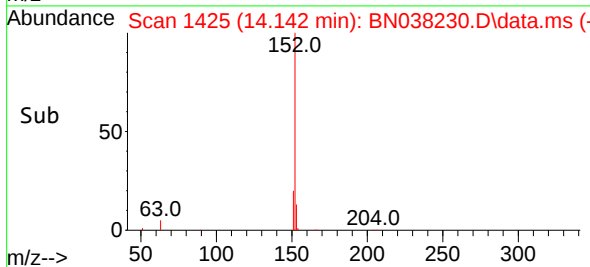
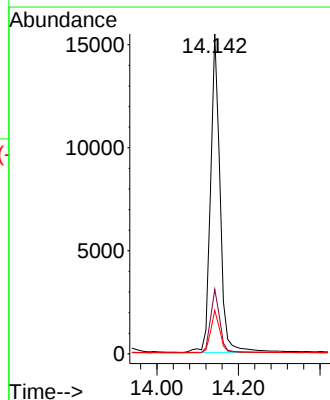
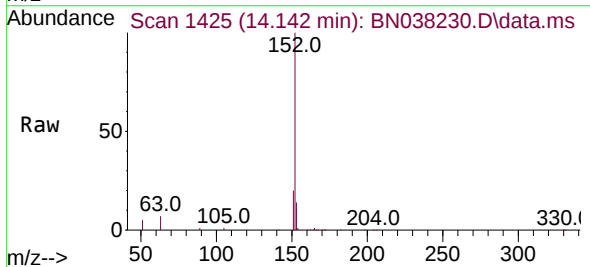
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDCCC0.4

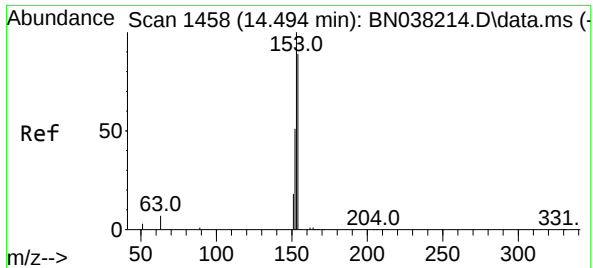
|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 172   | Resp: | 22013 |
| Ion Ratio | Lower | Upper |       |
| 172       | 100   |       |       |
| 171       | 34.7  | 28.1  | 42.1  |
| 170       | 22.7  | 19.1  | 28.7  |



#16  
Acenaphthylene  
Concen: 0.421 ng  
RT: 14.142 min Scan# 1425  
Delta R.T. 0.000 min  
Lab File: BN038230.D  
Acq: 01 Dec 2025 17:51

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 152   | Resp: | 24999 |
| Ion Ratio | Lower | Upper |       |
| 152       | 100   |       |       |
| 151       | 19.9  | 15.6  | 23.4  |
| 153       | 13.0  | 10.6  | 15.8  |

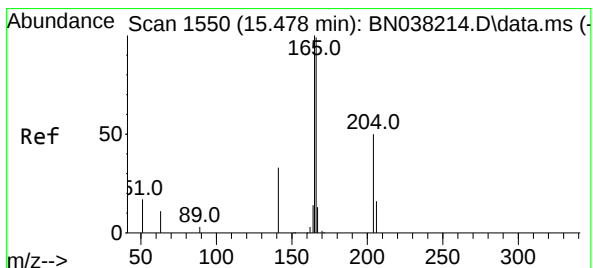
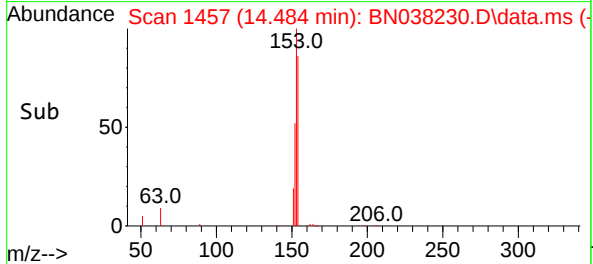
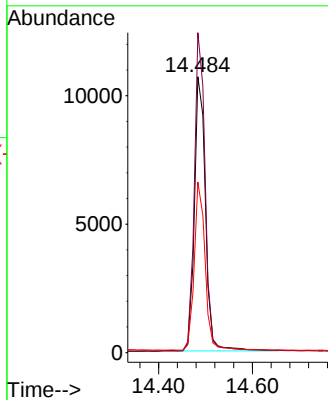
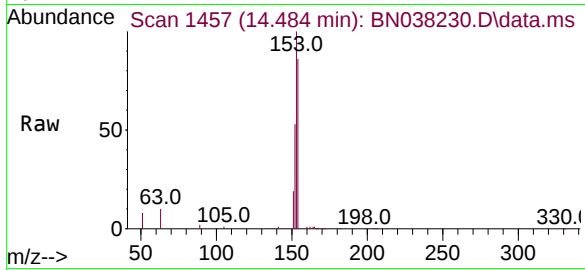




#17  
Acenaphthene  
Concen: 0.424 ng  
RT: 14.484 min Scan# 1457  
Delta R.T. -0.011 min  
Lab File: BN038230.D  
Acq: 01 Dec 2025 17:51

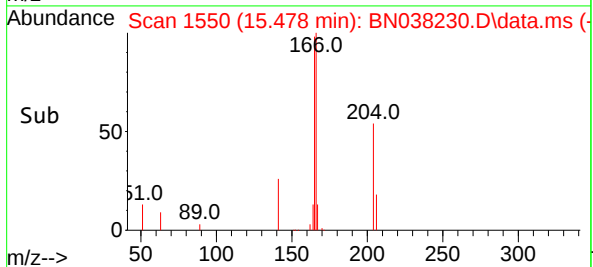
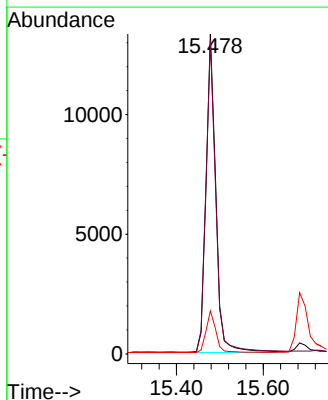
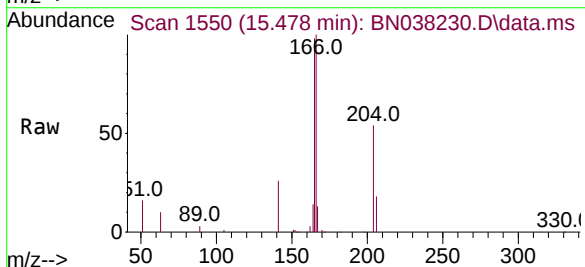
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDCCC0.4

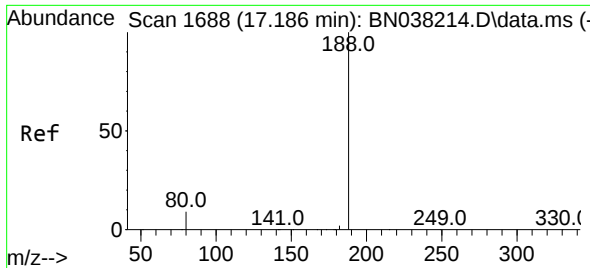
Tgt Ion:154 Resp: 17563  
Ion Ratio Lower Upper  
154 100  
153 114.3 91.1 136.7  
152 60.2 48.2 72.2



#18  
Fluorene  
Concen: 0.416 ng  
RT: 15.478 min Scan# 1550  
Delta R.T. -0.000 min  
Lab File: BN038230.D  
Acq: 01 Dec 2025 17:51

Tgt Ion:166 Resp: 22309  
Ion Ratio Lower Upper  
166 100  
165 99.2 78.7 118.1  
167 13.0 10.9 16.3

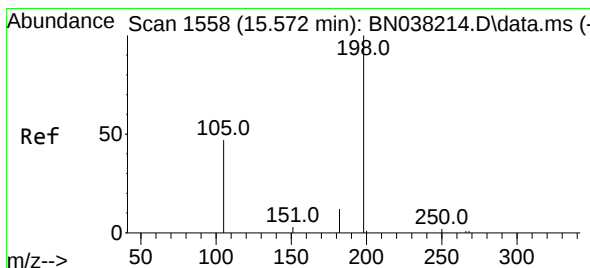
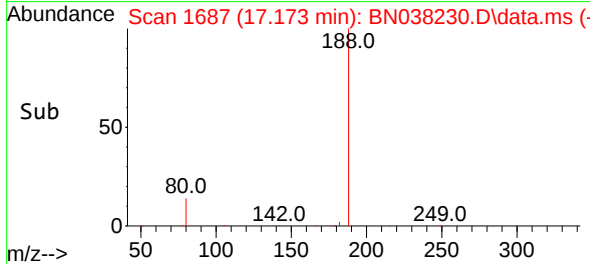
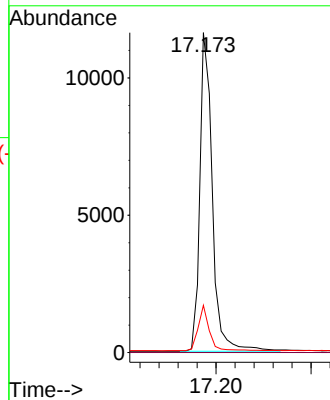
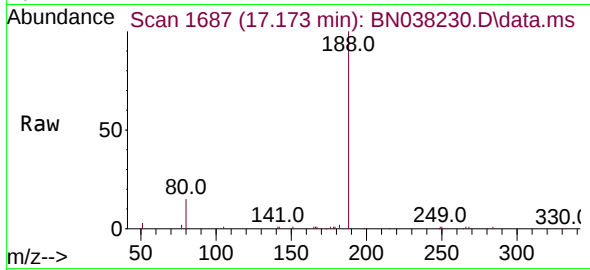




#19  
Phenanthrene-d10  
Concen: 0.400 ng  
RT: 17.173 min Scan# 1687  
Delta R.T. -0.012 min  
Lab File: BN038230.D  
Acq: 01 Dec 2025 17:51

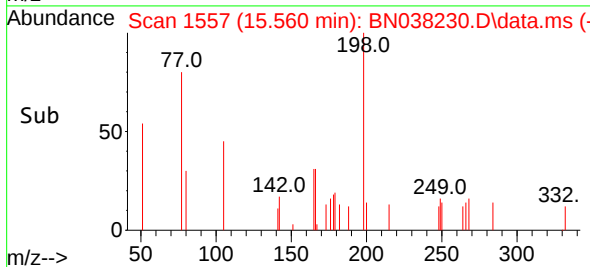
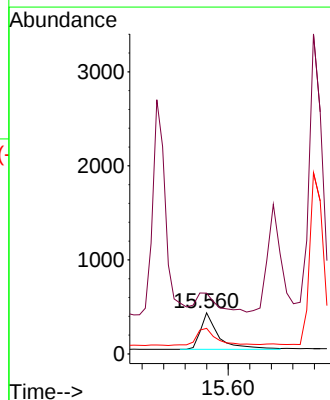
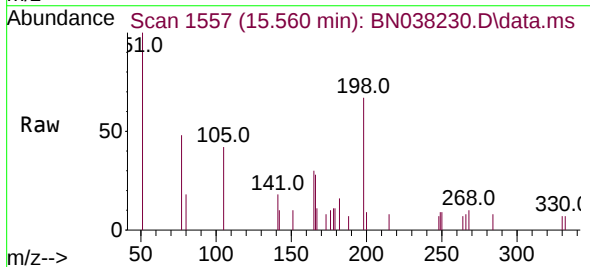
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDCCC0.4

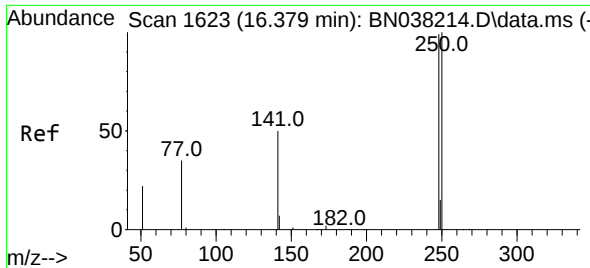
Tgt Ion:188 Resp: 21033  
Ion Ratio Lower Upper  
188 100  
94 0.0 0.0 0.0  
80 14.8 7.7 11.5#



#20  
4,6-Dinitro-2-methylphenol  
Concen: 0.563 ng  
RT: 15.560 min Scan# 1557  
Delta R.T. -0.012 min  
Lab File: BN038230.D  
Acq: 01 Dec 2025 17:51

Tgt Ion:198 Resp: 909  
Ion Ratio Lower Upper  
198 100  
51 148.2 205.1 307.7#  
105 62.4 61.6 92.4

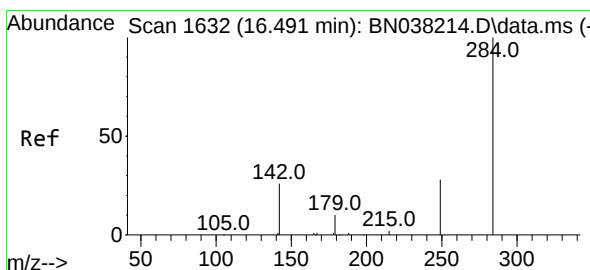
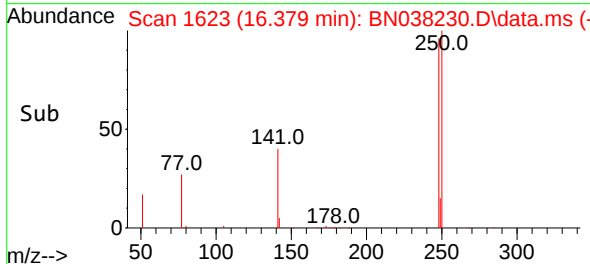
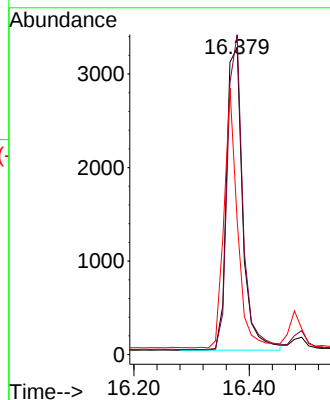
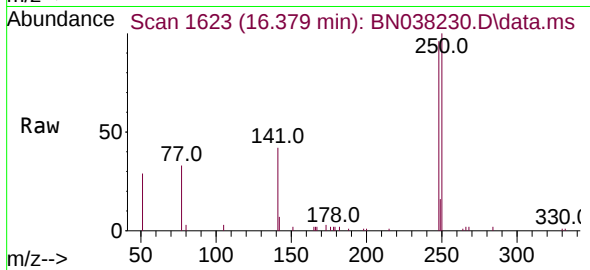




#21  
4-Bromophenyl-phenylether  
Concen: 0.430 ng  
RT: 16.379 min Scan# 1623  
Delta R.T. 0.000 min  
Lab File: BN038230.D  
Acq: 01 Dec 2025 17:51

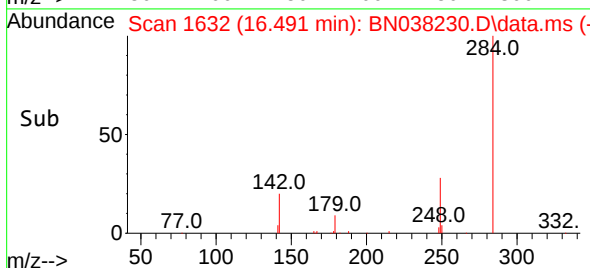
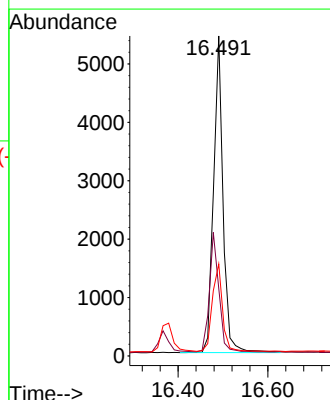
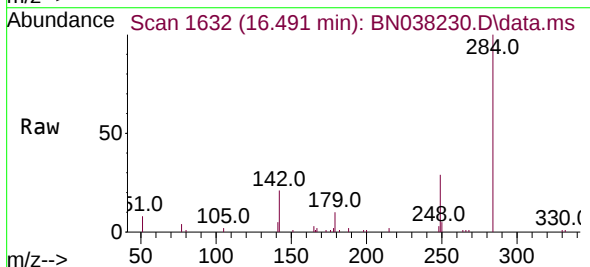
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDCCC0.4

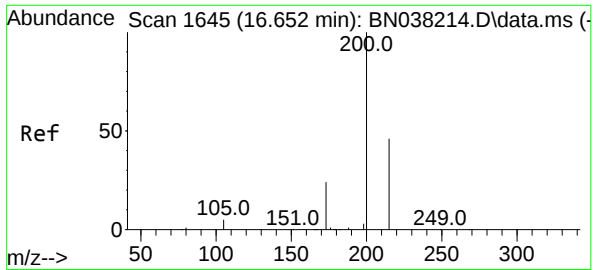
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 248     | 100   |       |       |
| 250     | 104.1 | 80.8  | 121.2 |
| 141     | 43.6  | 41.0  | 61.6  |



#22  
Hexachlorobenzene  
Concen: 0.446 ng  
RT: 16.491 min Scan# 1632  
Delta R.T. 0.000 min  
Lab File: BN038230.D  
Acq: 01 Dec 2025 17:51

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 284     | 100   |       |       |
| 142     | 38.0  | 30.5  | 45.7  |
| 249     | 29.9  | 23.8  | 35.8  |

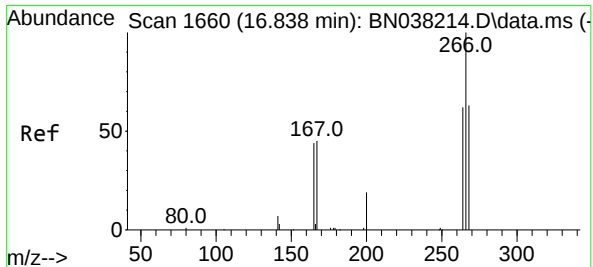
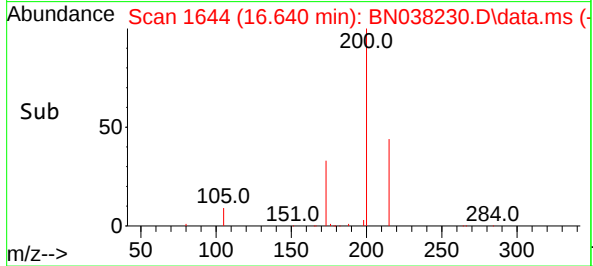
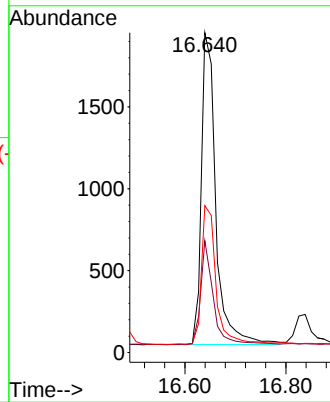
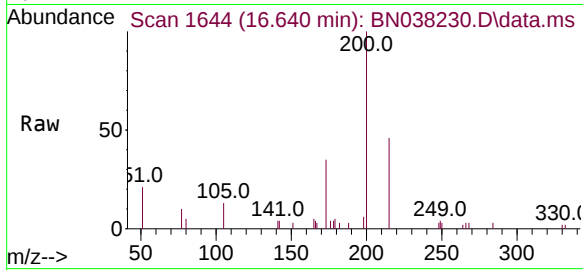




#23  
Atrazine  
Concen: 0.405 ng  
RT: 16.640 min Scan# 1644  
Delta R.T. -0.012 min  
Lab File: BN038230.D  
Acq: 01 Dec 2025 17:51

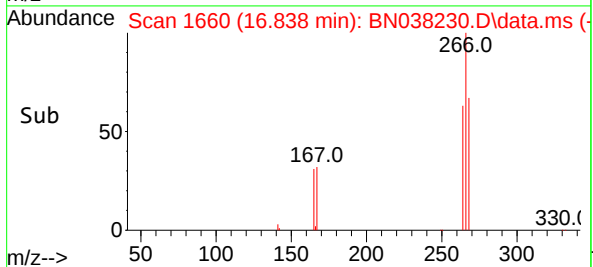
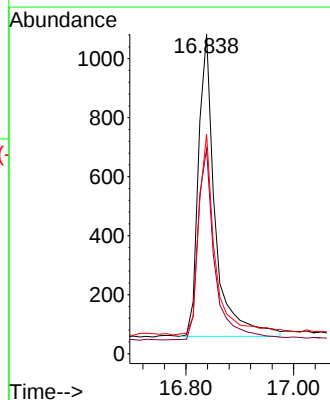
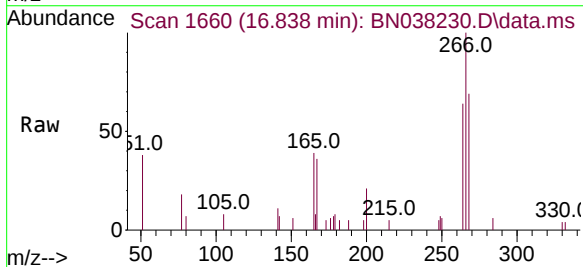
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDCCC0.4

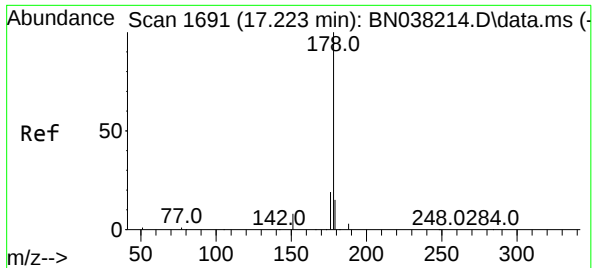
Tgt Ion:200 Resp: 3766  
Ion Ratio Lower Upper  
200 100  
173 35.0 21.0 31.6#  
215 45.9 37.8 56.8



#24  
Pentachlorophenol  
Concen: 0.448 ng  
RT: 16.838 min Scan# 1660  
Delta R.T. 0.000 min  
Lab File: BN038230.D  
Acq: 01 Dec 2025 17:51

Tgt Ion:266 Resp: 2201  
Ion Ratio Lower Upper  
266 100  
264 64.0 48.9 73.3  
268 65.1 50.2 75.2

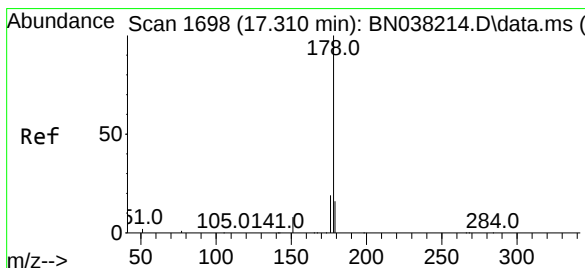
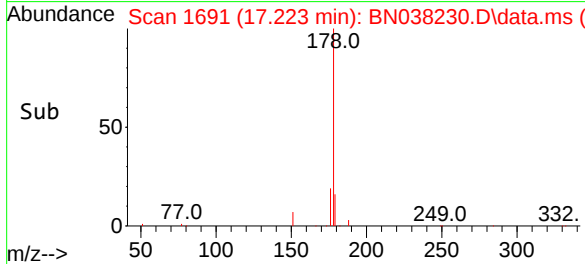
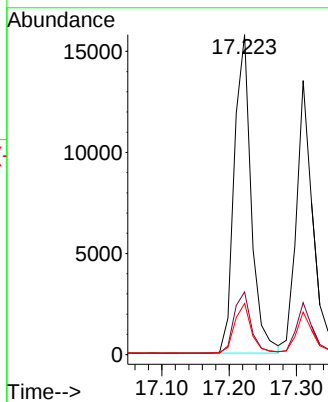
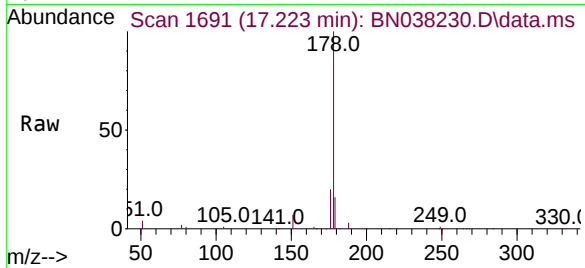




#25  
Phenanthrene  
Concen: 0.416 ng  
RT: 17.223 min Scan# 1691  
Delta R.T. 0.000 min  
Lab File: BN038230.D  
Acq: 01 Dec 2025 17:51

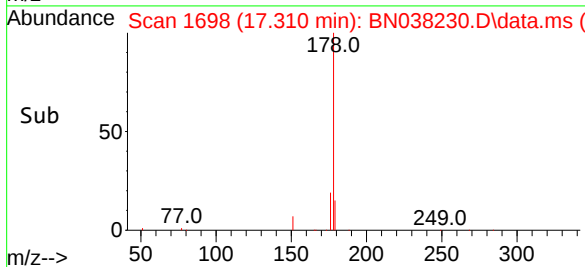
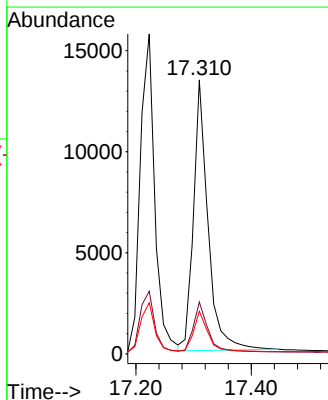
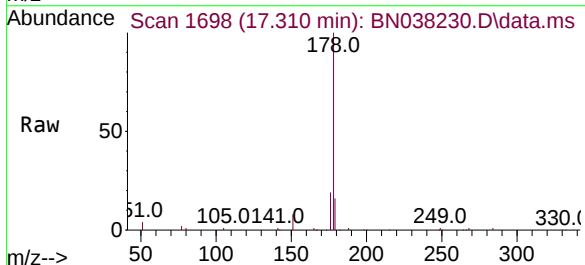
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BNA\_N  
ClientSampleId :  
SSTDCCC0.4

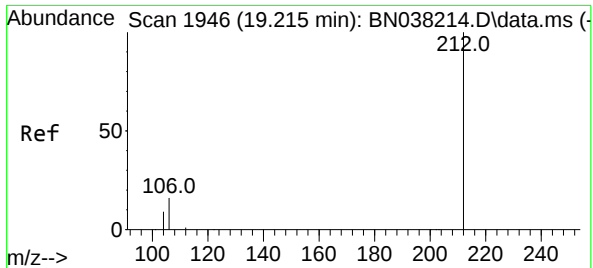
| Tgt Ion   | 178   | 176  | 179  |
|-----------|-------|------|------|
| Resp:     | 27475 |      |      |
| Ion Ratio | 100   | 19.5 | 15.5 |
| Lower     |       | 15.3 | 12.0 |
| Upper     |       | 22.9 | 18.0 |



#26  
Anthracene  
Concen: 0.414 ng  
RT: 17.310 min Scan# 1698  
Delta R.T. 0.000 min  
Lab File: BN038230.D  
Acq: 01 Dec 2025 17:51

| Tgt Ion   | 178   | 176  | 179  |
|-----------|-------|------|------|
| Resp:     | 23318 |      |      |
| Ion Ratio | 100   | 18.8 | 15.2 |
| Lower     |       | 14.7 | 12.3 |
| Upper     |       | 22.1 | 18.5 |

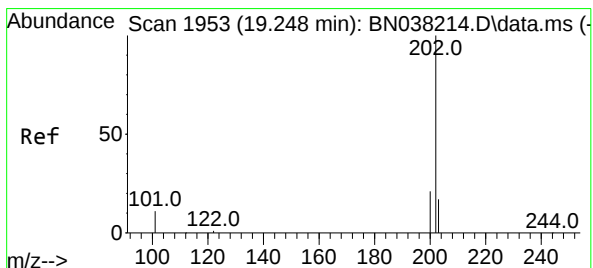
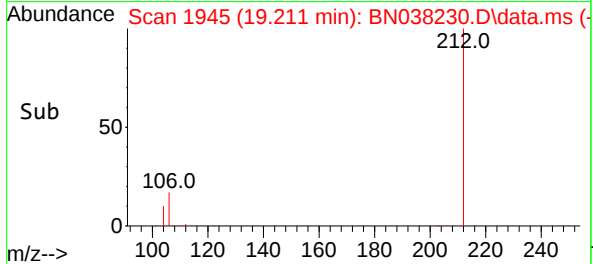
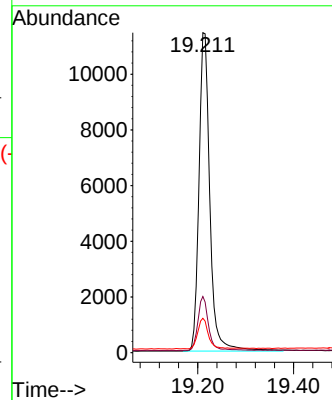
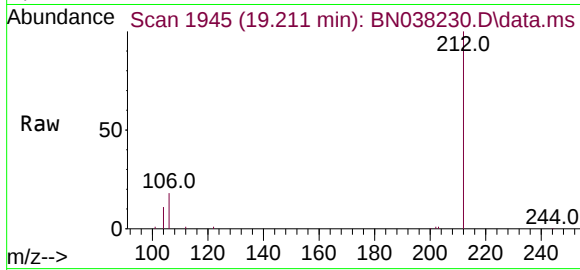




#27  
Fluoranthene-d10  
Concen: 0.392 ng  
RT: 19.211 min Scan# 1945  
Delta R.T. -0.005 min  
Lab File: BN038230.D  
Acq: 01 Dec 2025 17:51

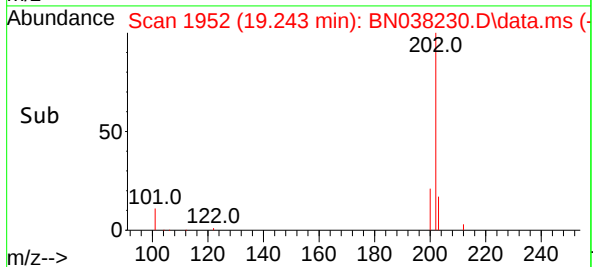
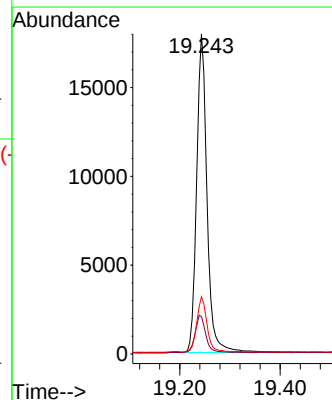
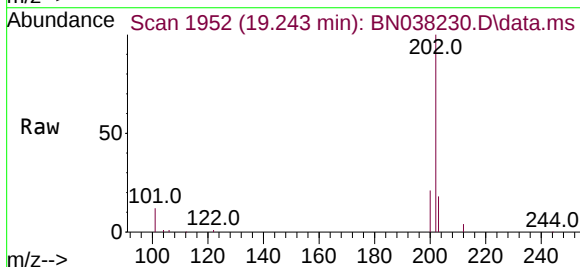
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDCCC0.4

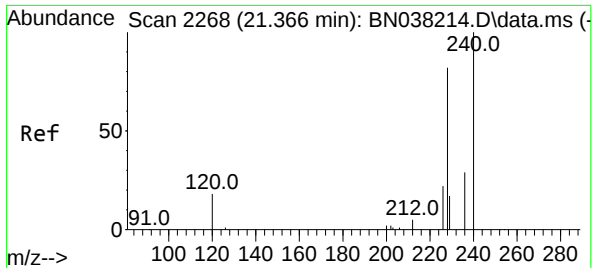
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 212     | 100   |       |       |
| 106     | 16.5  | 12.7  | 19.1  |
| 104     | 9.4   | 7.3   | 10.9  |



#28  
Fluoranthene  
Concen: 0.406 ng  
RT: 19.243 min Scan# 1952  
Delta R.T. -0.005 min  
Lab File: BN038230.D  
Acq: 01 Dec 2025 17:51

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 202     | 100   |       |       |
| 101     | 11.8  | 9.8   | 14.6  |
| 203     | 16.9  | 13.6  | 20.4  |

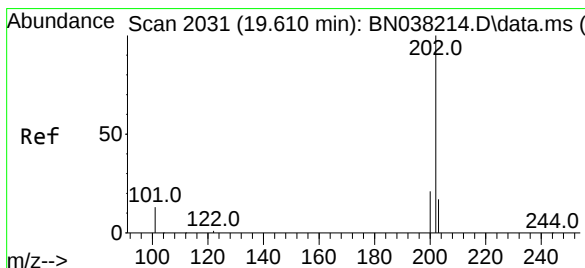
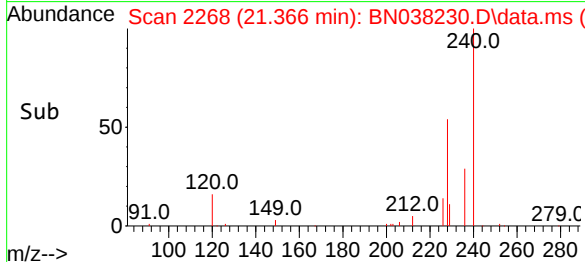
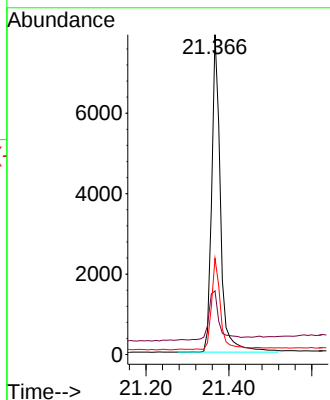
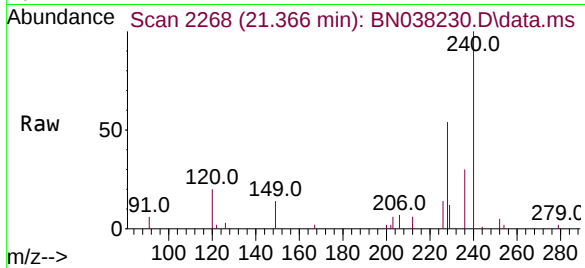




#29  
Chrysene-d12  
Concen: 0.400 ng  
RT: 21.366 min Scan# 21  
Delta R.T. 0.000 min  
Lab File: BN038230.D  
Acq: 01 Dec 2025 17:51

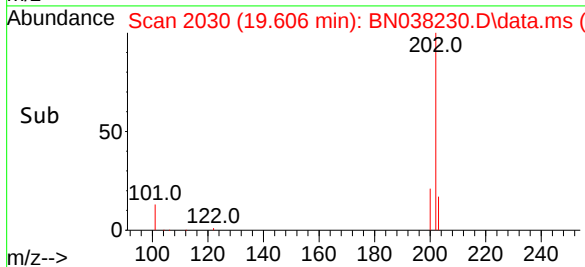
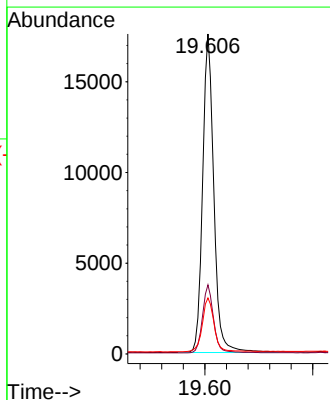
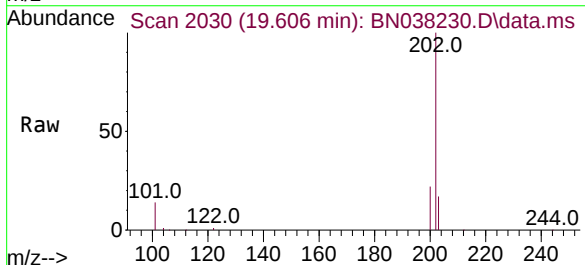
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDCCC0.4

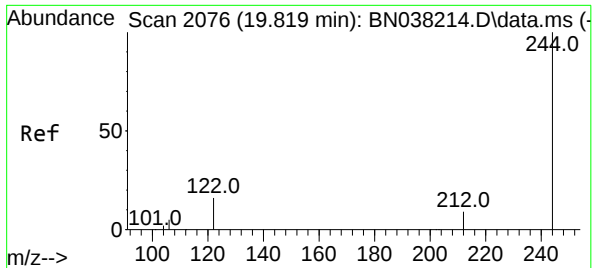
| Tgt Ion:  | 240   | Resp: | 11703 |
|-----------|-------|-------|-------|
| Ion Ratio | Lower | Upper |       |
| 240       | 100   |       |       |
| 120       | 19.9  | 18.1  | 27.1  |
| 236       | 30.1  | 24.2  | 36.4  |



#30  
Pyrene  
Concen: 0.433 ng  
RT: 19.606 min Scan# 2030  
Delta R.T. -0.005 min  
Lab File: BN038230.D  
Acq: 01 Dec 2025 17:51

| Tgt Ion:  | 202   | Resp: | 25312 |
|-----------|-------|-------|-------|
| Ion Ratio | Lower | Upper |       |
| 202       | 100   |       |       |
| 200       | 21.1  | 16.8  | 25.2  |
| 203       | 17.7  | 14.4  | 21.6  |

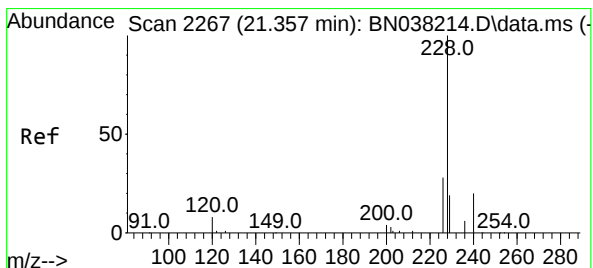
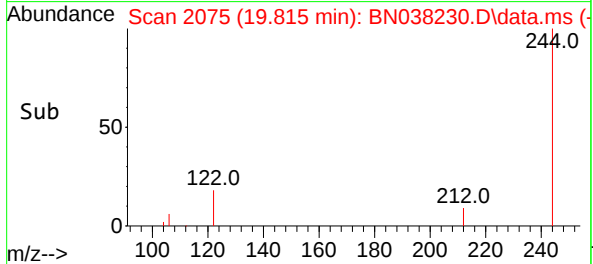
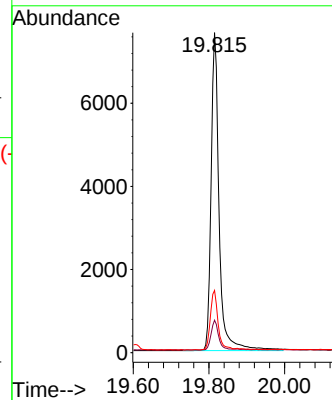
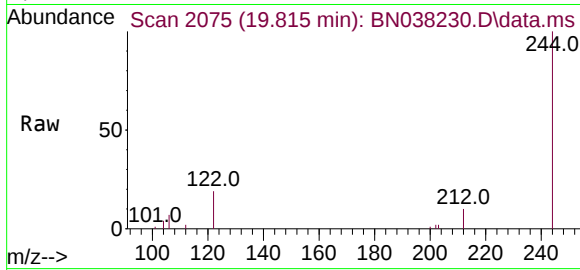




#31  
Terphenyl-d14  
Concen: 0.416 ng  
RT: 19.815 min Scan# 2076  
Delta R.T. -0.005 min  
Lab File: BN038230.D  
Acq: 01 Dec 2025 17:51

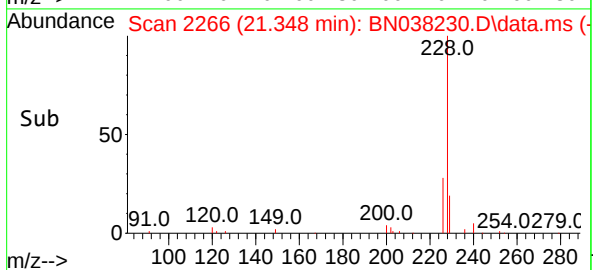
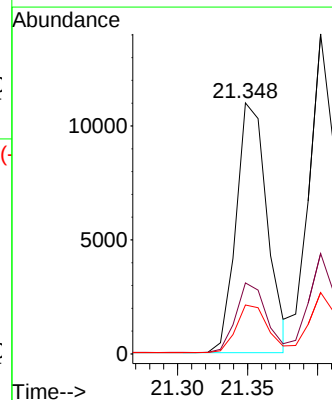
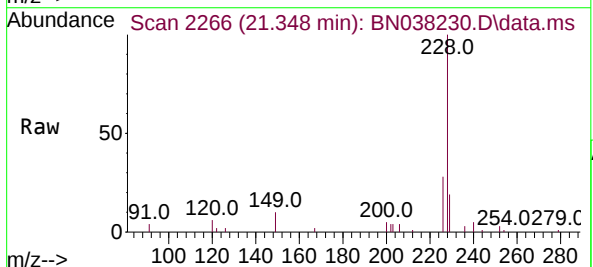
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDCCC0.4

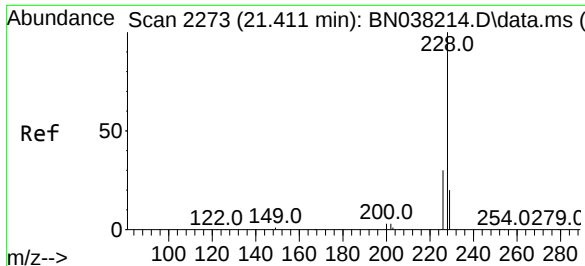
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 244     | 100   |       |       |
| 212     | 10.1  | 7.7   | 11.5  |
| 122     | 19.4  | 13.6  | 20.4  |



#32  
Benzo(a)anthracene  
Concen: 0.428 ng  
RT: 21.348 min Scan# 2266  
Delta R.T. -0.009 min  
Lab File: BN038230.D  
Acq: 01 Dec 2025 17:51

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 228     | 100   |       |       |
| 226     | 28.3  | 22.6  | 33.8  |
| 229     | 19.5  | 15.8  | 23.8  |

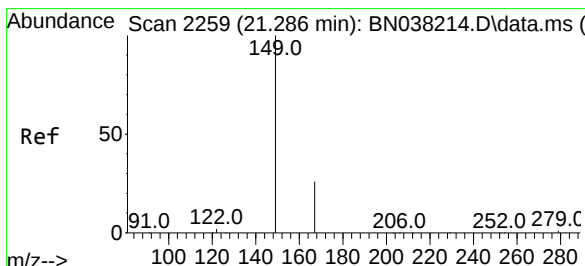
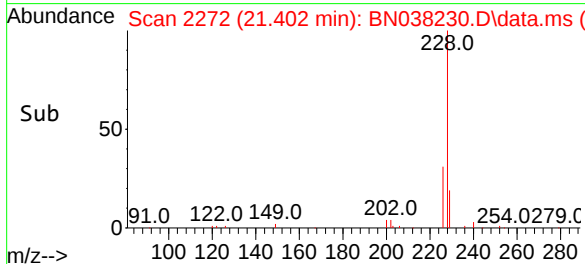
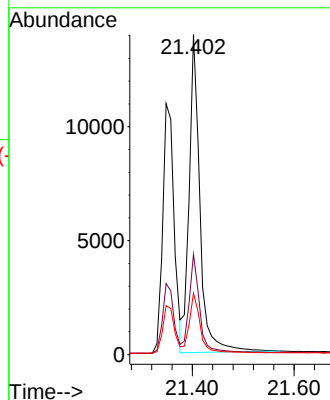
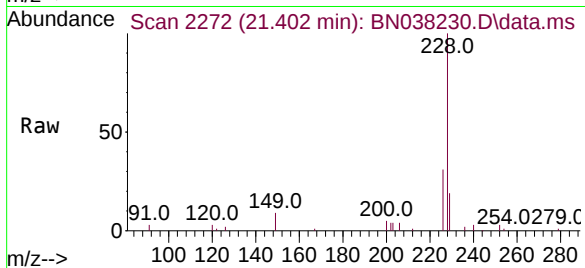




#33  
Chrysene  
Concen: 0.440 ng  
RT: 21.402 min Scan# 21  
Delta R.T. -0.009 min  
Lab File: BN038230.D  
Acq: 01 Dec 2025 17:51

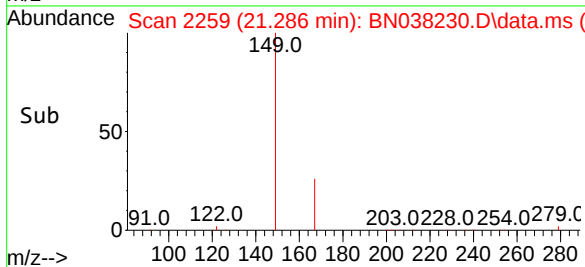
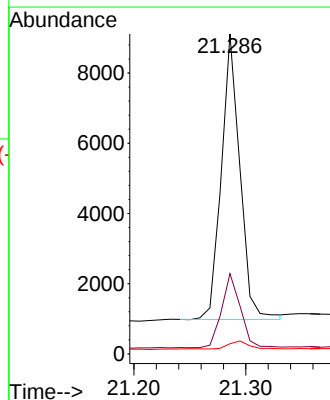
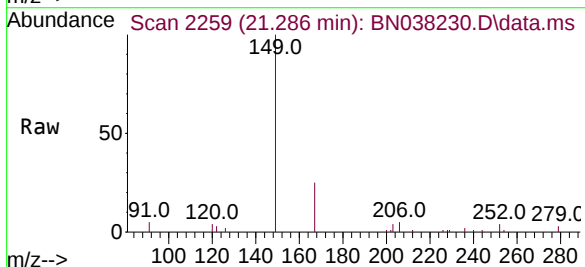
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDCCC0.4

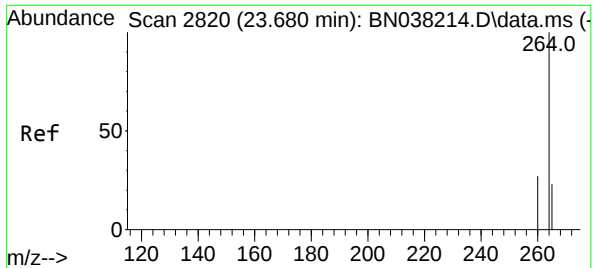
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 228     | 100   |       |       |
| 226     | 31.4  | 23.8  | 35.8  |
| 229     | 19.2  | 16.1  | 24.1  |



#34  
Bis(2-ethylhexyl)phthalate  
Concen: 0.431 ng  
RT: 21.286 min Scan# 2259  
Delta R.T. 0.000 min  
Lab File: BN038230.D  
Acq: 01 Dec 2025 17:51

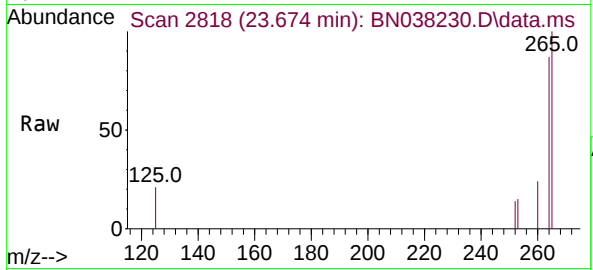
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 149     | 100   |       |       |
| 167     | 26.6  | 20.7  | 31.1  |
| 279     | 3.0   | 2.5   | 3.7   |



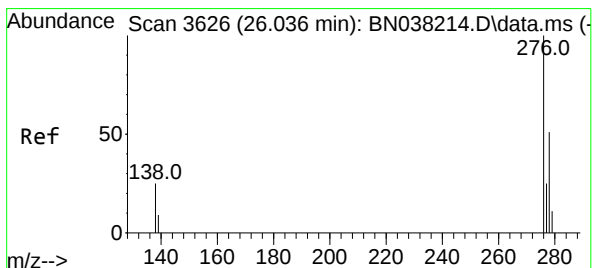
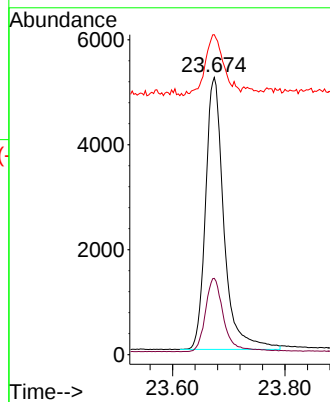
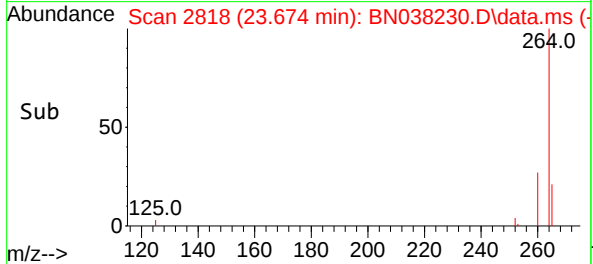


#35  
Perylene-d12  
Concen: 0.400 ng  
RT: 23.674 min Scan# 2818  
Delta R.T. -0.006 min  
Lab File: BN038230.D  
Acq: 01 Dec 2025 17:51

Instrument :  
BNA\_N  
ClientSampleId :  
SSTDCCC0.4

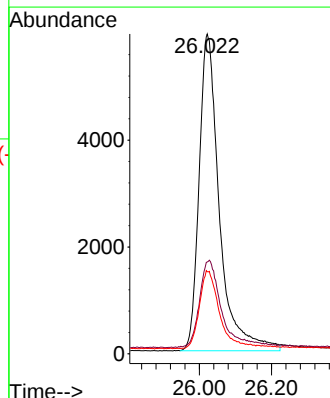
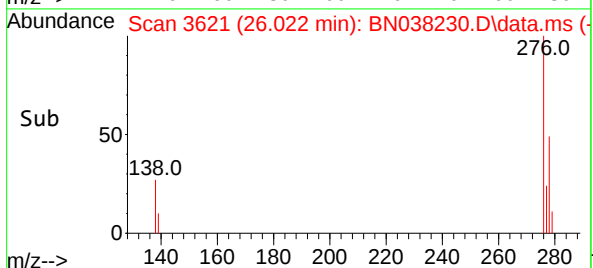
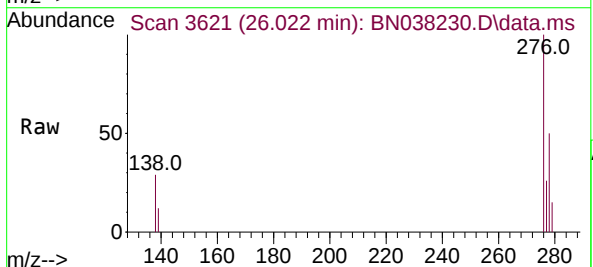


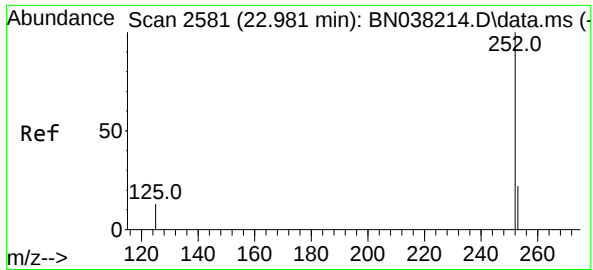
Tgt Ion:264 Resp: 11756  
Ion Ratio Lower Upper  
264 100  
260 27.5 21.7 32.5  
265 115.4 98.0 147.0



#36  
Indeno(1,2,3-cd)pyrene  
Concen: 0.425 ng  
RT: 26.022 min Scan# 3621  
Delta R.T. -0.015 min  
Lab File: BN038230.D  
Acq: 01 Dec 2025 17:51

Tgt Ion:276 Resp: 23141  
Ion Ratio Lower Upper  
276 100  
138 29.5 21.4 32.2  
277 24.1 19.1 28.7





#37

Benzo(b)fluoranthene

Concen: 0.404 ng

RT: 22.975 min Scan# 21

Delta R.T. -0.006 min

Lab File: BN038230.D

Acq: 01 Dec 2025 17:51

Instrument :

BNA\_N

ClientSampleId :

SSTDCCC0.4

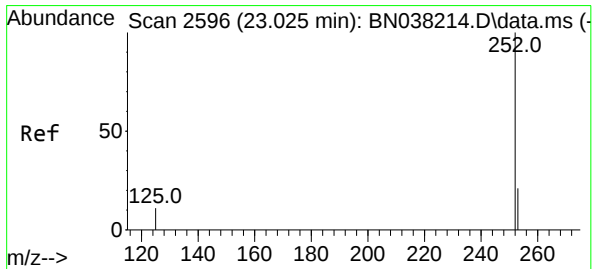
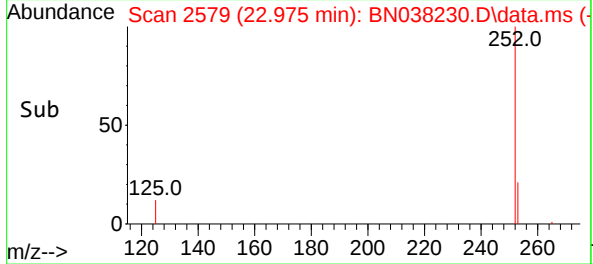
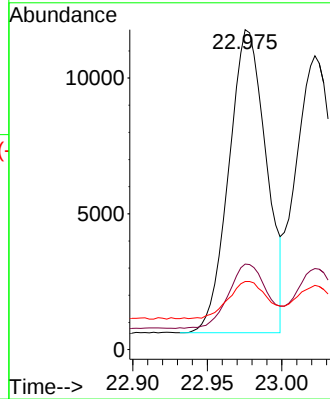
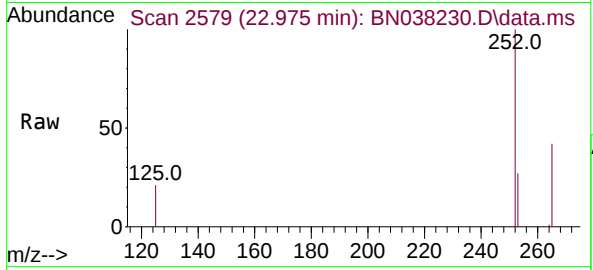
Tgt Ion:252 Resp: 19476

Ion Ratio Lower Upper

252 100

253 26.7 22.2 33.4

125 21.3 18.0 27.0



#38

Benzo(k)fluoranthene

Concen: 0.391 ng

RT: 23.022 min Scan# 2595

Delta R.T. -0.003 min

Lab File: BN038230.D

Acq: 01 Dec 2025 17:51

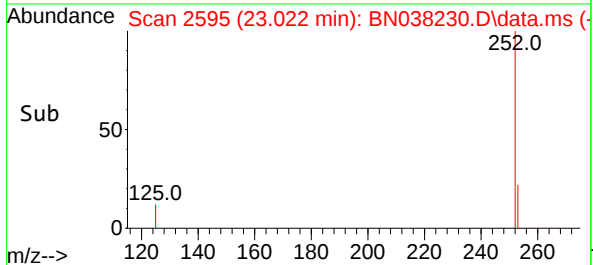
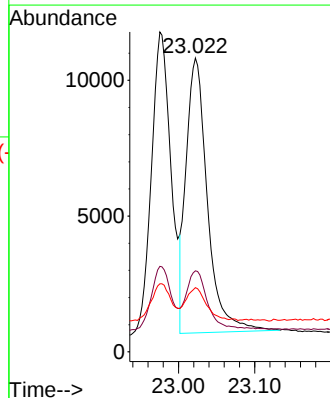
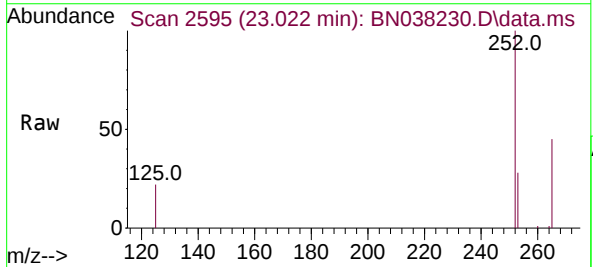
Tgt Ion:252 Resp: 19637

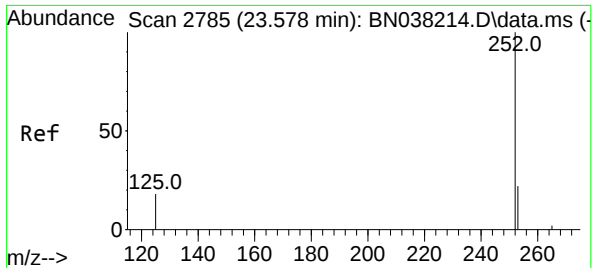
Ion Ratio Lower Upper

252 100

253 27.5 22.4 33.6

125 21.9 17.5 26.3





#39

Benzo(a)pyrene

Concen: 0.405 ng

RT: 23.575 min Scan# 21

Delta R.T. -0.003 min

Lab File: BN038230.D

Acq: 01 Dec 2025 17:51

Instrument :

BNA\_N

ClientSampleId :

SSTDCCC0.4

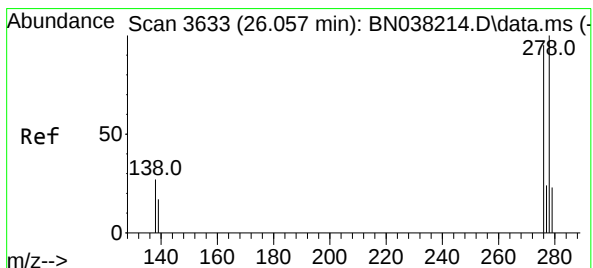
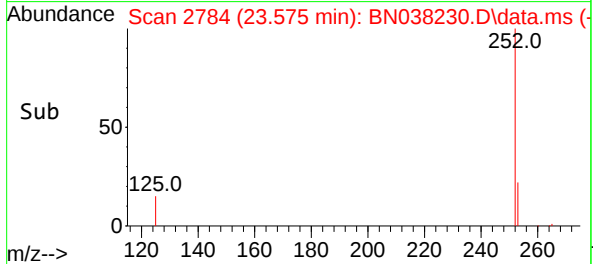
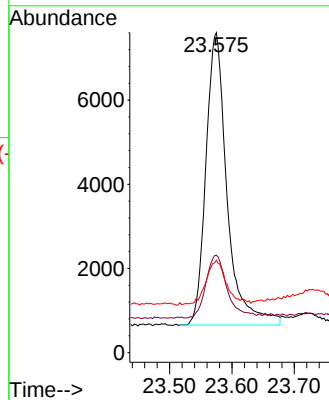
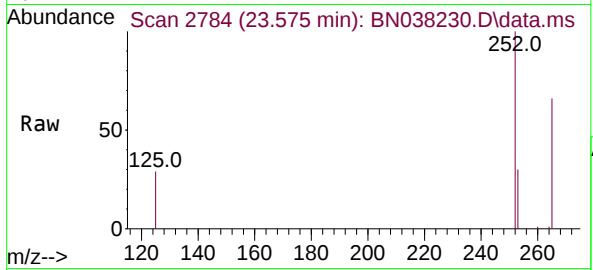
Tgt Ion:252 Resp: 16399

Ion Ratio Lower Upper

252 100

253 30.4 25.3 37.9

125 28.9 25.2 37.8



#40

Dibenzo(a,h)anthracene

Concen: 0.428 ng

RT: 26.042 min Scan# 3628

Delta R.T. -0.015 min

Lab File: BN038230.D

Acq: 01 Dec 2025 17:51

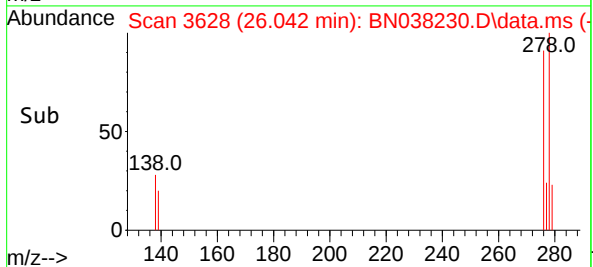
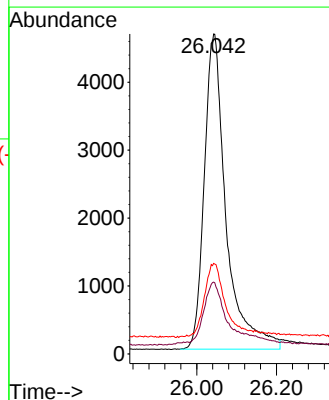
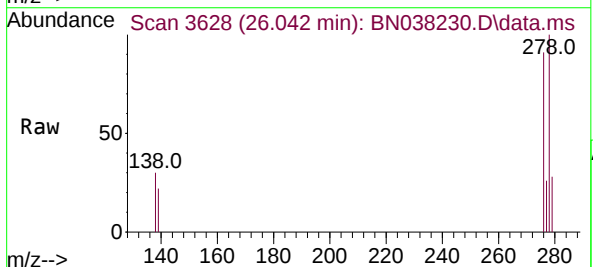
Tgt Ion:278 Resp: 17617

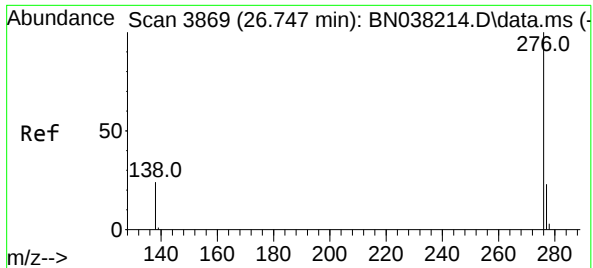
Ion Ratio Lower Upper

278 100

139 22.5 17.6 26.4

279 28.3 24.2 36.4





#41

Benzo(g,h,i)perylene

Concen: 0.418 ng

RT: 26.738 min Scan# 3866

Delta R.T. -0.009 min

Lab File: BN038230.D

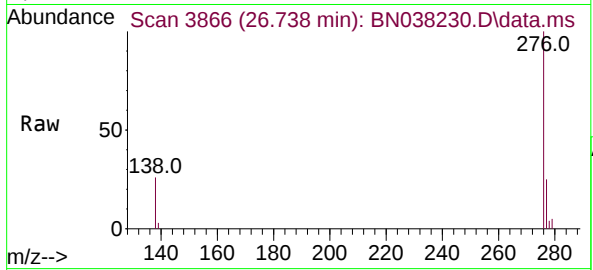
Acq: 01 Dec 2025 17:51

Instrument :

BNA\_N

ClientSampleId :

SSTDCCC0.4



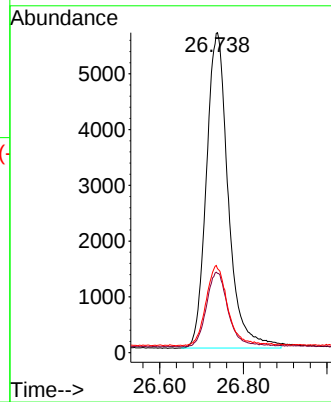
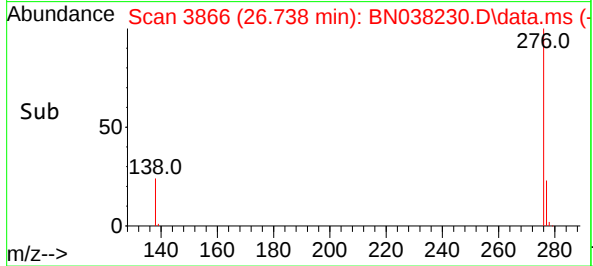
Tgt Ion:276 Resp: 20554

Ion Ratio Lower Upper

276 100

277 24.8 20.2 30.2

138 26.2 20.8 31.2



Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN120125\  
Data File : BN038230.D  
Acq On : 01 Dec 2025 17:51  
Operator : RC/JU  
Sample : SSTDCCC0.4  
Misc :  
ALS Vial : 2 Sample Multiplier: 1

Instrument :  
BNA\_N  
LabSampleId :  
SSTDCCC0.4

Quant Time: Dec 01 18:21:10 2025  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\8270-SIM-BN112725.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Fri Nov 28 21:04:10 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   | 108   | 0.00     |
| 2       | 1,4-Dioxane                | 0.421 | 0.451 | -7.1  | 109   | 0.00     |
| 3       | n-Nitrosodimethylamine     | 0.520 | 0.540 | -3.8  | 107   | 0.00     |
| 4 S     | 2-Fluorophenol             | 0.935 | 0.944 | -1.0  | 103   | 0.00     |
| 5 S     | Phenol-d6                  | 1.168 | 1.204 | -3.1  | 107   | 0.00     |
| 6       | bis(2-Chloroethyl)ether    | 1.118 | 1.195 | -6.9  | 108   | 0.00     |
| 7 I     | Naphthalene-d8             | 1.000 | 1.000 | 0.0   | 105   | -0.01    |
| 8 S     | Nitrobenzene-d5            | 0.320 | 0.317 | 0.9   | 107   | 0.00     |
| 9       | Naphthalene                | 1.111 | 1.179 | -6.1  | 107   | 0.00     |
| 10      | Hexachlorobutadiene        | 0.189 | 0.209 | -10.6 | 109   | 0.00     |
| 11 SURR | 2-Methylnaphthalene-d10    | 0.568 | 0.591 | -4.0  | 105   | 0.00     |
| 12      | 2-Methylnaphthalene        | 0.731 | 0.766 | -4.8  | 106   | 0.00     |
| 13 I    | Acenaphthene-d10           | 1.000 | 1.000 | 0.0   | 100   | 0.00     |
| 14 S    | 2,4,6-Tribromophenol       | 0.126 | 0.139 | -10.3 | 113   | -0.01    |
| 15 S    | 2-Fluorobiphenyl           | 1.545 | 1.656 | -7.2  | 105   | 0.00     |
| 16      | Acenaphthylene             | 1.789 | 1.881 | -5.1  | 105   | 0.00     |
| 17      | Acenaphthene               | 1.247 | 1.321 | -5.9  | 103   | -0.01    |
| 18      | Fluorene                   | 1.614 | 1.678 | -4.0  | 102   | 0.00     |
| 19 I    | Phenanthrene-d10           | 1.000 | 1.000 | 0.0   | 96    | -0.01    |
| 20      | 4,6-Dinitro-2-methylphenol | 0.042 | 0.043 | -2.4  | 160#  | -0.01    |
| 21      | 4-Bromophenyl-phenylether  | 0.277 | 0.298 | -7.6  | 101   | 0.00     |
| 22      | Hexachlorobenzene          | 0.341 | 0.380 | -11.4 | 102   | 0.00     |
| 23      | Atrazine                   | 0.177 | 0.179 | -1.1  | 99    | -0.01    |
| 24      | Pentachlorophenol          | 0.093 | 0.105 | -12.9 | 120   | 0.00     |
| 25      | Phenanthrene               | 1.256 | 1.306 | -4.0  | 96    | 0.00     |
| 26      | Anthracene                 | 1.071 | 1.109 | -3.5  | 100   | 0.00     |
| 27 SURR | Fluoranthene-d10           | 0.868 | 0.851 | 2.0   | 92    | 0.00     |
| 28      | Fluoranthene               | 1.210 | 1.227 | -1.4  | 96    | 0.00     |
| 29 I    | Chrysene-d12               | 1.000 | 1.000 | 0.0   | 91    | 0.00     |
| 30      | Pyrene                     | 1.998 | 2.163 | -8.3  | 95    | 0.00     |
| 31 S    | Terphenyl-d14              | 0.924 | 0.961 | -4.0  | 91    | 0.00     |
| 32      | Benzo(a)anthracene         | 1.355 | 1.448 | -6.9  | 97    | 0.00     |
| 33      | Chrysene                   | 1.599 | 1.760 | -10.1 | 97    | 0.00     |
| 34      | Bis(2-ethylhexyl)phthalate | 0.742 | 0.799 | -7.7  | 91    | 0.00     |
| 35 I    | Perylene-d12               | 1.000 | 1.000 | 0.0   | 98    | 0.00     |
| 36      | Indeno(1,2,3-cd)pyrene     | 1.851 | 1.968 | -6.3  | 103   | -0.01    |
| 37      | Benzo(b)fluoranthene       | 1.642 | 1.657 | -0.9  | 96    | 0.00     |
| 38      | Benzo(k)fluoranthene       | 1.707 | 1.670 | 2.2   | 93    | 0.00     |
| 39 C    | Benzo(a)pyrene             | 1.376 | 1.395 | -1.4  | 99    | 0.00     |
| 40      | Dibenzo(a,h)anthracene     | 1.401 | 1.499 | -7.0  | 107   | -0.01    |
| 41      | Benzo(g,h,i)perylene       | 1.674 | 1.748 | -4.4  | 100   | 0.00     |

(#) = Out of Range

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

Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN120125\  
Data File : BN038230.D  
Acq On : 01 Dec 2025 17:51  
Operator : RC/JU  
Sample : SSTDCCC0.4  
Misc :  
ALS Vial : 2 Sample Multiplier: 1

Instrument :  
BNA\_N  
LabSampleId :  
SSTDCCC0.4

Quant Time: Dec 01 18:21:10 2025  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\8270-SIM-BN112725.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Fri Nov 28 21:04:10 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    | 108   | 0.00     |
| 2       | 1,4-Dioxane                | 0.400  | 0.428 | -7.0   | 109   | 0.00     |
| 3       | n-Nitrosodimethylamine     | 0.400  | 0.416 | -4.0   | 107   | 0.00     |
| 4 S     | 2-Fluorophenol             | 0.400  | 0.404 | -1.0   | 103   | 0.00     |
| 5 S     | Phenol-d6                  | 0.400  | 0.412 | -3.0   | 107   | 0.00     |
| 6       | bis(2-Chloroethyl)ether    | 0.400  | 0.428 | -7.0   | 108   | 0.00     |
| 7 I     | Naphthalene-d8             | 0.400  | 0.400 | 0.0    | 105   | -0.01    |
| 8 S     | Nitrobenzene-d5            | 0.400  | 0.396 | 1.0    | 107   | 0.00     |
| 9       | Naphthalene                | 0.400  | 0.424 | -6.0   | 107   | 0.00     |
| 10      | Hexachlorobutadiene        | 0.400  | 0.442 | -10.5  | 109   | 0.00     |
| 11 SURR | 2-Methylnaphthalene-d10    | 0.400  | 0.416 | -4.0   | 105   | 0.00     |
| 12      | 2-Methylnaphthalene        | 0.400  | 0.419 | -4.7   | 106   | 0.00     |
| 13 I    | Acenaphthene-d10           | 0.400  | 0.400 | 0.0    | 100   | 0.00     |
| 14 S    | 2,4,6-Tribromophenol       | 0.400  | 0.440 | -10.0  | 113   | -0.01    |
| 15 S    | 2-Fluorobiphenyl           | 0.400  | 0.429 | -7.2   | 105   | 0.00     |
| 16      | Acenaphthylene             | 0.400  | 0.421 | -5.2   | 105   | 0.00     |
| 17      | Acenaphthene               | 0.400  | 0.424 | -6.0   | 103   | -0.01    |
| 18      | Fluorene                   | 0.400  | 0.416 | -4.0   | 102   | 0.00     |
| 19 I    | Phenanthrene-d10           | 0.400  | 0.400 | 0.0    | 96    | -0.01    |
| 20      | 4,6-Dinitro-2-methylphenol | 0.400  | 0.563 | -40.7# | 160   | -0.01    |
| 21      | 4-Bromophenyl-phenylether  | 0.400  | 0.430 | -7.5   | 101   | 0.00     |
| 22      | Hexachlorobenzene          | 0.400  | 0.446 | -11.5  | 102   | 0.00     |
| 23      | Atrazine                   | 0.400  | 0.405 | -1.3   | 99    | -0.01    |
| 24      | Pentachlorophenol          | 0.400  | 0.448 | -12.0  | 120   | 0.00     |
| 25      | Phenanthrene               | 0.400  | 0.416 | -4.0   | 96    | 0.00     |
| 26      | Anthracene                 | 0.400  | 0.414 | -3.5   | 100   | 0.00     |
| 27 SURR | Fluoranthene-d10           | 0.400  | 0.392 | 2.0    | 92    | 0.00     |
| 28      | Fluoranthene               | 0.400  | 0.406 | -1.5   | 96    | 0.00     |
| 29 I    | Chrysene-d12               | 0.400  | 0.400 | 0.0    | 91    | 0.00     |
| 30      | Pyrene                     | 0.400  | 0.433 | -8.2   | 95    | 0.00     |
| 31 S    | Terphenyl-d14              | 0.400  | 0.416 | -4.0   | 91    | 0.00     |
| 32      | Benzo(a)anthracene         | 0.400  | 0.428 | -7.0   | 97    | 0.00     |
| 33      | Chrysene                   | 0.400  | 0.440 | -10.0  | 97    | 0.00     |
| 34      | Bis(2-ethylhexyl)phthalate | 0.400  | 0.431 | -7.7   | 91    | 0.00     |
| 35 I    | Perylene-d12               | 0.400  | 0.400 | 0.0    | 98    | 0.00     |
| 36      | Indeno(1,2,3-cd)pyrene     | 0.400  | 0.425 | -6.2   | 103   | -0.01    |
| 37      | Benzo(b)fluoranthene       | 0.400  | 0.404 | -1.0   | 96    | 0.00     |
| 38      | Benzo(k)fluoranthene       | 0.400  | 0.391 | 2.3    | 93    | 0.00     |
| 39 C    | Benzo(a)pyrene             | 0.400  | 0.405 | -1.3   | 99    | 0.00     |
| 40      | Dibenzo(a,h)anthracene     | 0.400  | 0.428 | -7.0   | 107   | -0.01    |
| 41      | Benzo(g,h,i)perylene       | 0.400  | 0.418 | -4.5   | 100   | 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: Alliance Contract: TETR06  
 Lab Code: ACE SDG No.: Q3691  
 Instrument ID: BNA\_N Calibration Date/Time: 12/02/2025 04:44  
 Lab File ID: BN038248.D Init. Calib. Date(s): 11/26/2025 11/27/2025  
 EPA Sample No.: SSTDCCC0.4EC Init. Calib. Time(s): 20:35 00:13  
 GC Column: ZB-GR ID: 0.25 (mm)

| COMPOUND                | RRF   | RRF0.4 | MIN<br>RRF | %D   | MAX%D |
|-------------------------|-------|--------|------------|------|-------|
| 2-Methylnaphthalene-d10 | 0.568 | 0.562  |            | -1.1 | 50.0  |
| Fluoranthene-d10        | 0.868 | 0.924  |            | 6.5  | 50.0  |
| 2-Fluorophenol          | 0.935 | 1.019  |            | 9.0  | 50.0  |
| Phenol-d6               | 1.168 | 1.291  |            | 10.5 | 50.0  |
| Nitrobenzene-d5         | 0.320 | 0.323  |            | 0.9  | 50.0  |
| 2-Fluorobiphenyl        | 1.545 | 1.663  |            | 7.6  | 50.0  |
| 2,4,6-Tribromophenol    | 0.126 | 0.130  |            | 3.2  | 50.0  |
| Terphenyl-d14           | 0.924 | 0.862  |            | -6.7 | 50.0  |
| 1,4-Dioxane             | 0.421 | 0.416  |            | -1.2 | 50.0  |

All other compounds must meet a minimum RRF of 0.010.

Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN120125\  
 Data File : BN038248.D  
 Acq On : 02 Dec 2025 04:44  
 Operator : RC/JU  
 Sample : SSTDCCC0.4  
 Misc :  
 ALS Vial : 20 Sample Multiplier: 1

Instrument :  
 BNA\_N  
 ClientSampleId :  
 SSTDCCC0.4EC

Quant Time: Dec 02 05:08:32 2025  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\8270-SIM-BN112725.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Fri Nov 28 21:04:10 2025  
 Response via : Initial Calibration

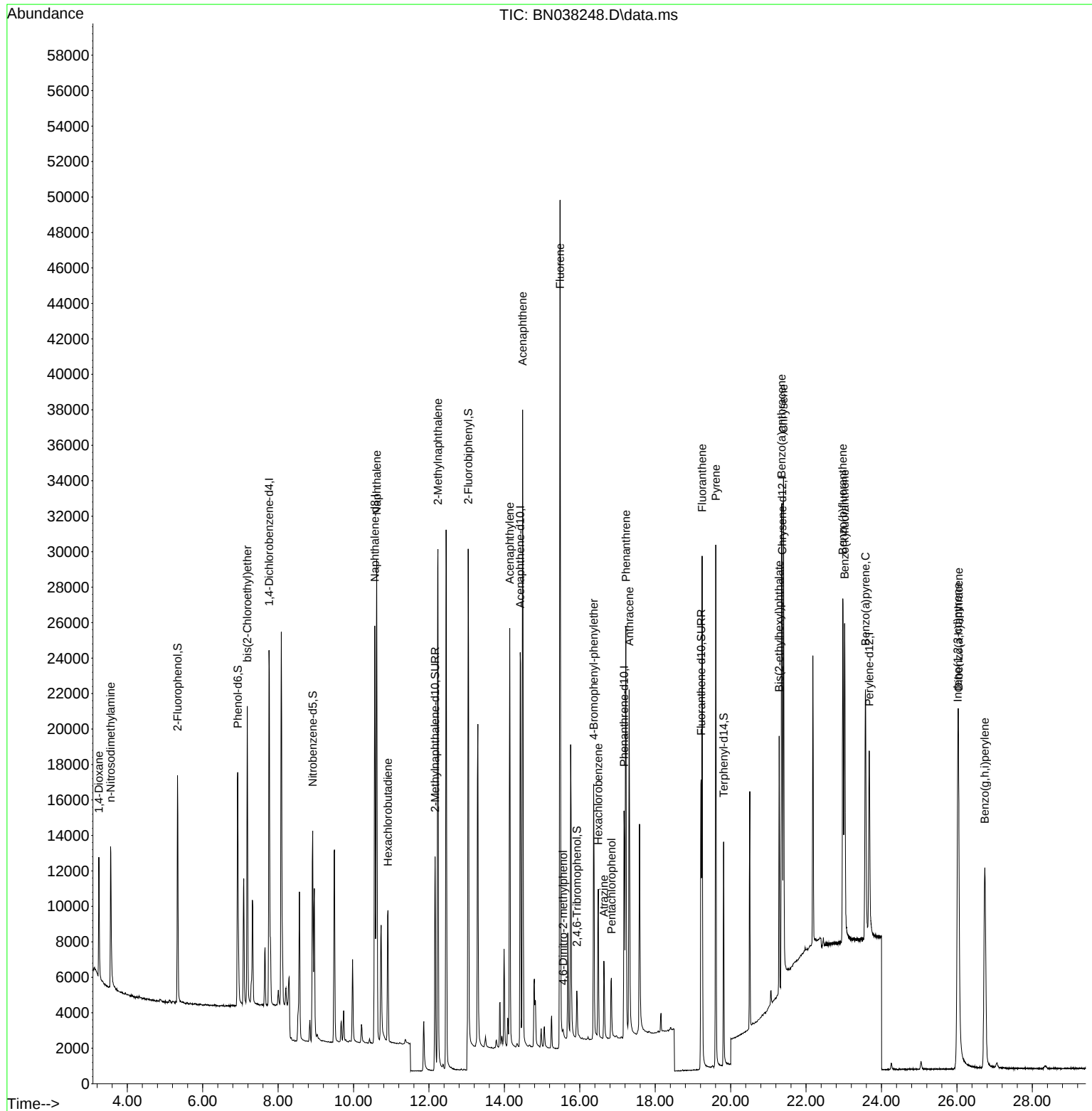
| Compound                      | R.T.   | QIon | Response | Conc  | Units | Dev(Min) |
|-------------------------------|--------|------|----------|-------|-------|----------|
| -----                         |        |      |          |       |       |          |
| Internal Standards            |        |      |          |       |       |          |
| 1) 1,4-Dichlorobenzene-d4     | 7.760  | 152  | 10250    | 0.400 | ng    | 0.00     |
| 7) Naphthalene-d8             | 10.562 | 136  | 30844    | 0.400 | ng    | #-0.01   |
| 13) Acenaphthene-d10          | 14.420 | 164  | 14264    | 0.400 | ng    | -0.01    |
| 19) Phenanthrene-d10          | 17.173 | 188  | 20647    | 0.400 | ng    | #-0.01   |
| 29) Chrysene-d12              | 21.366 | 240  | 14639    | 0.400 | ng    | # 0.00   |
| 35) Perylene-d12              | 23.674 | 264  | 15261    | 0.400 | ng    | # 0.00   |
|                               |        |      |          |       |       |          |
| System Monitoring Compounds   |        |      |          |       |       |          |
| 4) 2-Fluorophenol             | 5.334  | 112  | 10445    | 0.436 | ng    | 0.00     |
| 5) Phenol-d6                  | 6.930  | 99   | 13237    | 0.442 | ng    | 0.00     |
| 8) Nitrobenzene-d5            | 8.918  | 82   | 9976     | 0.404 | ng    | 0.00     |
| 11) 2-Methylnaphthalene-d10   | 12.162 | 152  | 17348    | 0.396 | ng    | 0.00     |
| 14) 2,4,6-Tribromophenol      | 15.920 | 330  | 1848     | 0.412 | ng    | -0.01    |
| 15) 2-Fluorobiphenyl          | 13.040 | 172  | 23718    | 0.430 | ng    | -0.01    |
| 27) Fluoranthene-d10          | 19.215 | 212  | 19068    | 0.426 | ng    | 0.00     |
| 31) Terphenyl-d14             | 19.815 | 244  | 12613    | 0.373 | ng    | 0.00     |
|                               |        |      |          |       |       |          |
| Target Compounds              |        |      |          |       |       | Qvalue   |
| 2) 1,4-Dioxane                | 3.247  | 88   | 4262     | 0.395 | ng    | 98       |
| 3) n-Nitrosodimethylamine     | 3.557  | 42   | 5603     | 0.421 | ng    | # 98     |
| 6) bis(2-Chloroethyl)ether    | 7.183  | 93   | 12341    | 0.431 | ng    | 98       |
| 9) Naphthalene                | 10.616 | 128  | 35905    | 0.419 | ng    | 100      |
| 10) Hexachlorobutadiene       | 10.914 | 225  | 6320     | 0.434 | ng    | # 98     |
| 12) 2-Methylnaphthalene       | 12.238 | 142  | 22514    | 0.399 | ng    | 100      |
| 16) Acenaphthylene            | 14.142 | 152  | 26695    | 0.419 | ng    | 100      |
| 17) Acenaphthene              | 14.484 | 154  | 18161    | 0.408 | ng    | 98       |
| 18) Fluorene                  | 15.478 | 166  | 22344    | 0.388 | ng    | 98       |
| 20) 4,6-Dinitro-2-methylph... | 15.560 | 198  | 338      | 0.325 | ng    | # 83     |
| 21) 4-Bromophenyl-phenylether | 16.366 | 248  | 6262     | 0.438 | ng    | # 76     |
| 22) Hexachlorobenzene         | 16.491 | 284  | 7188     | 0.409 | ng    | 99       |
| 23) Atrazine                  | 16.640 | 200  | 3923     | 0.429 | ng    | # 93     |
| 24) Pentachlorophenol         | 16.838 | 266  | 2138     | 0.443 | ng    | 97       |
| 25) Phenanthrene              | 17.223 | 178  | 27027    | 0.417 | ng    | 99       |
| 26) Anthracene                | 17.310 | 178  | 23016    | 0.416 | ng    | 99       |
| 28) Fluoranthene              | 19.243 | 202  | 27125    | 0.434 | ng    | 99       |
| 30) Pyrene                    | 19.606 | 202  | 27307    | 0.373 | ng    | 100      |
| 32) Benzo(a)anthracene        | 21.348 | 228  | 21799    | 0.440 | ng    | 100      |
| 33) Chrysene                  | 21.402 | 228  | 24797    | 0.424 | ng    | 98       |
| 34) Bis(2-ethylhexyl)phtha... | 21.286 | 149  | 13068    | 0.481 | ng    | 99       |
| 36) Indeno(1,2,3-cd)pyrene    | 26.022 | 276  | 30080    | 0.426 | ng    | 98       |
| 37) Benzo(b)fluoranthene      | 22.975 | 252  | 25327    | 0.404 | ng    | 97       |
| 38) Benzo(k)fluoranthene      | 23.022 | 252  | 25148    | 0.386 | ng    | 96       |
| 39) Benzo(a)pyrene            | 23.575 | 252  | 21958    | 0.418 | ng    | 96       |
| 40) Dibenzo(a,h)anthracene    | 26.042 | 278  | 23186    | 0.434 | ng    | 96       |
| 41) Benzo(g,h,i)perylene      | 26.741 | 276  | 26137    | 0.409 | ng    | 99       |
| -----                         |        |      |          |       |       |          |

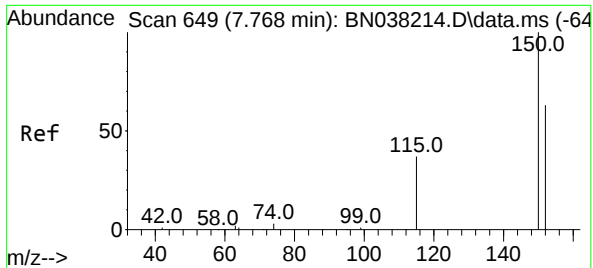
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN120125\  
Data File : BN038248.D  
Acq On : 02 Dec 2025 04:44  
Operator : RC/JU  
Sample : SSTDCCC0.4  
Misc :  
ALS Vial : 20 Sample Multiplier: 1

Instrument :  
BNA\_N  
ClientSampleId :  
SSTDCCC0.4EC

Quant Time: Dec 02 05:08:32 2025  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\8270-SIM-BN112725.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Fri Nov 28 21:04:10 2025  
Response via : Initial Calibration

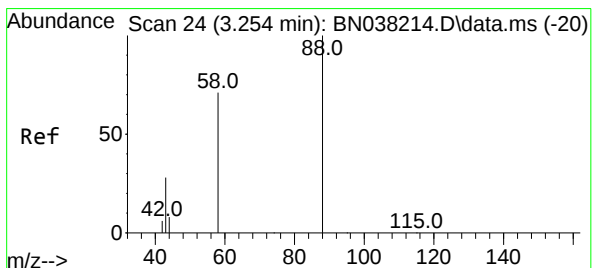
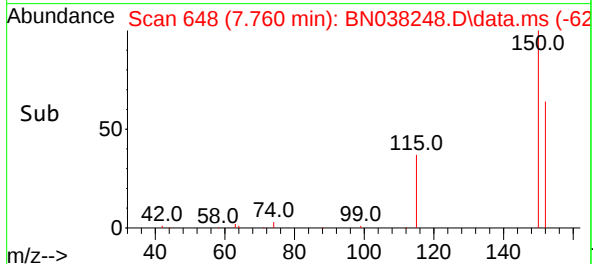
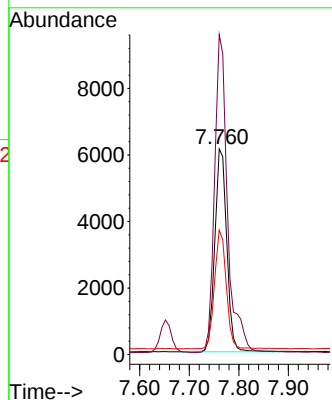
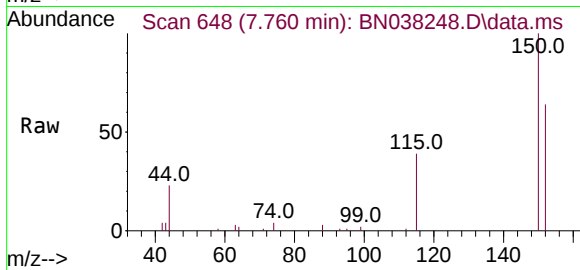




#1  
1,4-Dichlorobenzene-d4  
Concen: 0.400 ng  
RT: 7.760 min Scan# 64  
Delta R.T. -0.008 min  
Lab File: BN038248.D  
Acq: 02 Dec 2025 04:44

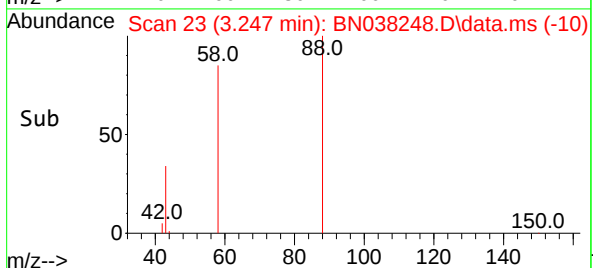
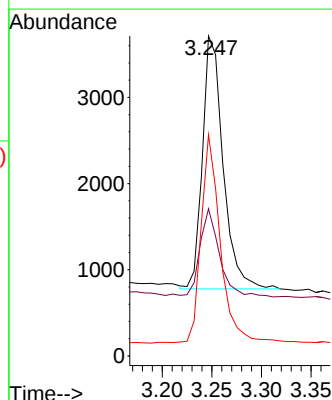
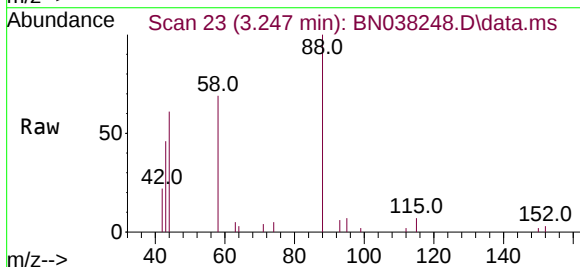
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDCCC0.4EC

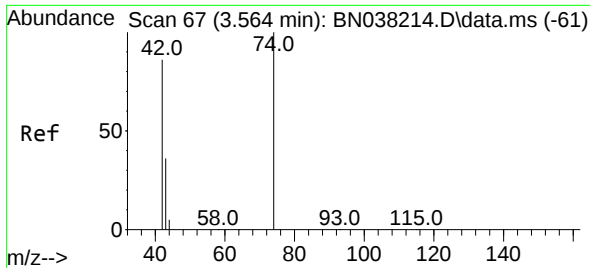
Tgt Ion:152 Resp: 10250  
Ion Ratio Lower Upper  
152 100  
150 155.6 125.3 187.9  
115 60.6 49.0 73.4



#2  
1,4-Dioxane  
Concen: 0.395 ng  
RT: 3.247 min Scan# 23  
Delta R.T. -0.007 min  
Lab File: BN038248.D  
Acq: 02 Dec 2025 04:44

Tgt Ion: 88 Resp: 4262  
Ion Ratio Lower Upper  
88 100  
43 33.1 24.8 37.2  
58 77.1 61.1 91.7

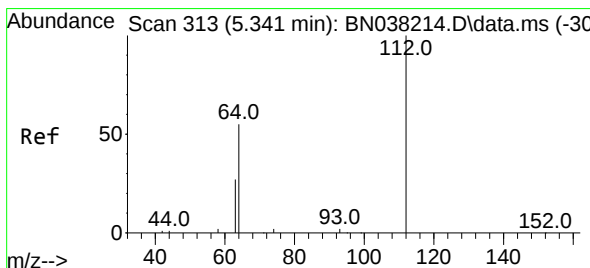
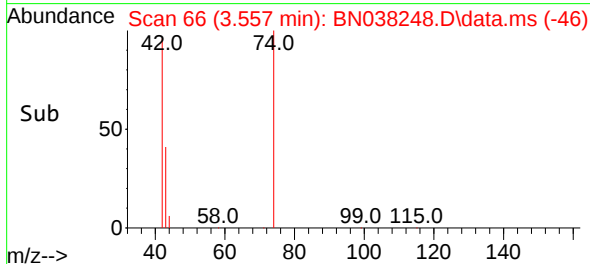
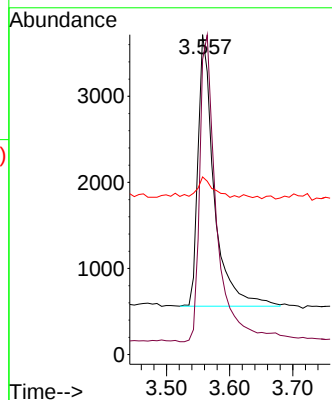
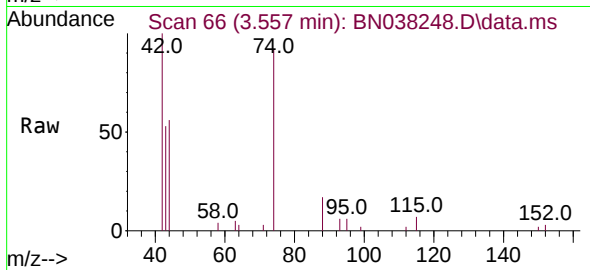




#3  
n-Nitrosodimethylamine  
Concen: 0.421 ng  
RT: 3.557 min Scan# 60  
Delta R.T. -0.007 min  
Lab File: BN038248.D  
Acq: 02 Dec 2025 04:44

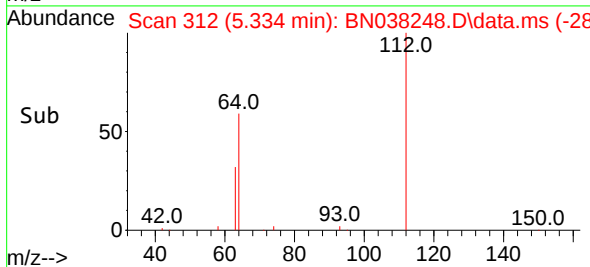
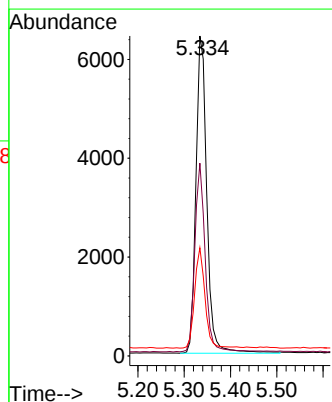
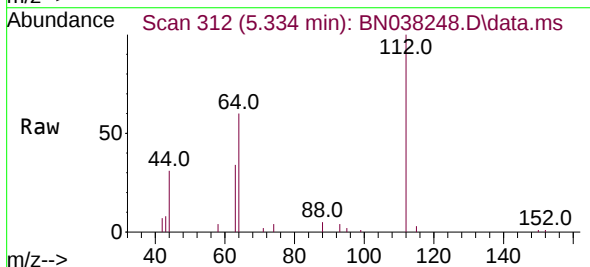
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDCCC0.4EC

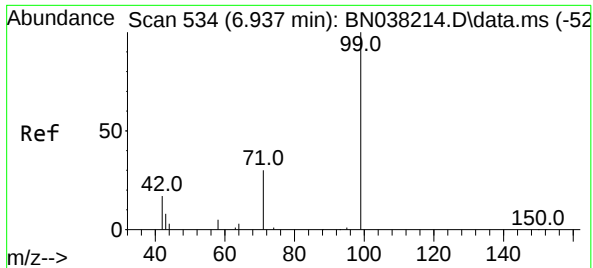
Tgt Ion: 42 Resp: 5603  
Ion Ratio Lower Upper  
42 100  
74 119.0 96.2 144.2  
44 7.5 8.0 12.0#



#4  
2-Fluorophenol  
Concen: 0.436 ng  
RT: 5.334 min Scan# 312  
Delta R.T. -0.007 min  
Lab File: BN038248.D  
Acq: 02 Dec 2025 04:44

Tgt Ion: 112 Resp: 10445  
Ion Ratio Lower Upper  
112 100  
64 57.1 45.0 67.4  
63 30.1 23.2 34.8

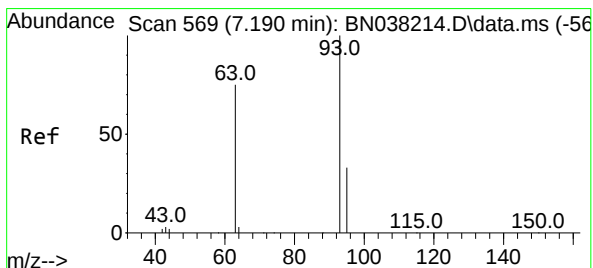
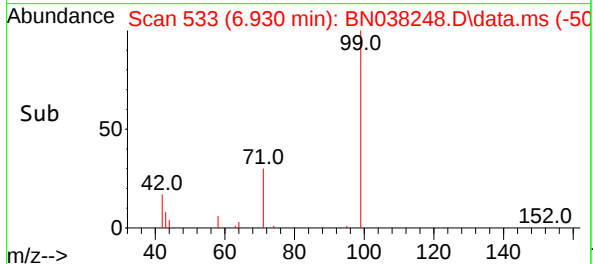
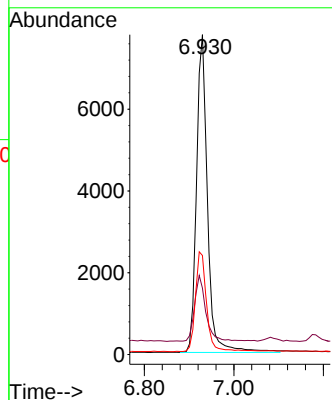
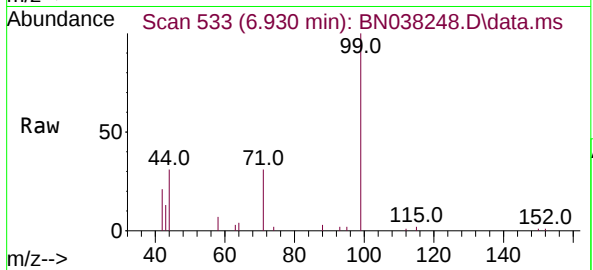




#5  
Phenol-d6  
Concen: 0.442 ng  
RT: 6.930 min Scan# 534  
Delta R.T. -0.007 min  
Lab File: BN038248.D  
Acq: 02 Dec 2025 04:44

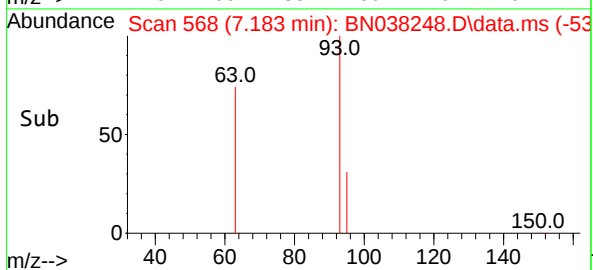
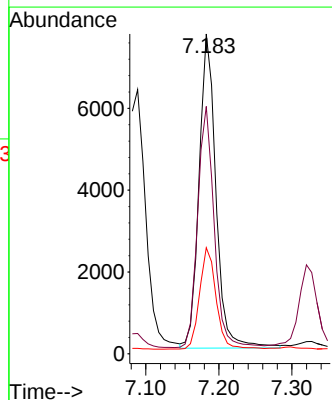
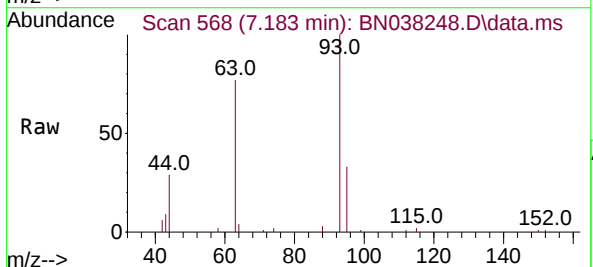
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDCCC0.4EC

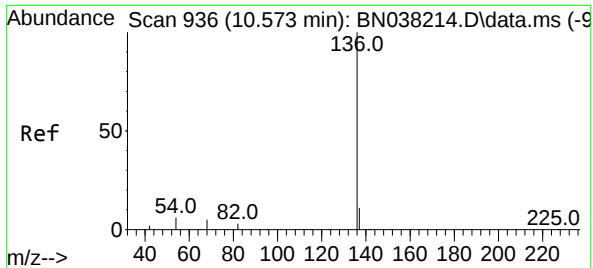
Tgt Ion: 99 Resp: 13237  
Ion Ratio Lower Upper  
99 100  
42 21.5 17.0 25.6  
71 32.3 25.4 38.2



#6  
bis(2-Chloroethyl)ether  
Concen: 0.431 ng  
RT: 7.183 min Scan# 568  
Delta R.T. -0.007 min  
Lab File: BN038248.D  
Acq: 02 Dec 2025 04:44

Tgt Ion: 93 Resp: 12341  
Ion Ratio Lower Upper  
93 100  
63 75.1 58.1 87.1  
95 31.7 25.1 37.7

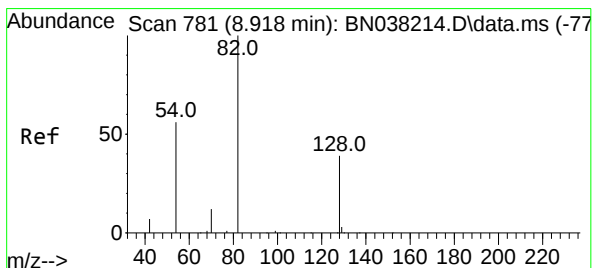
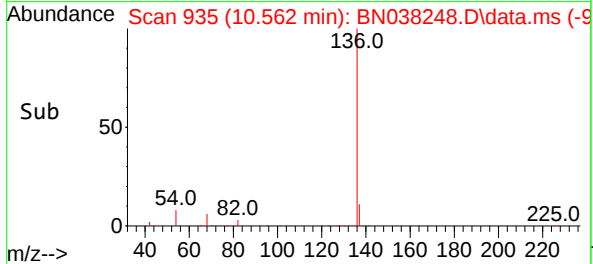
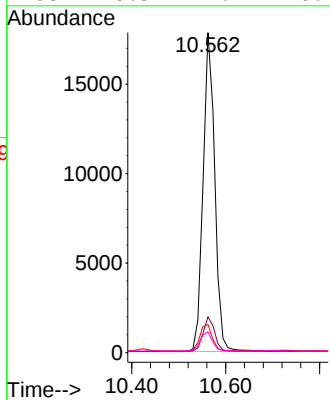
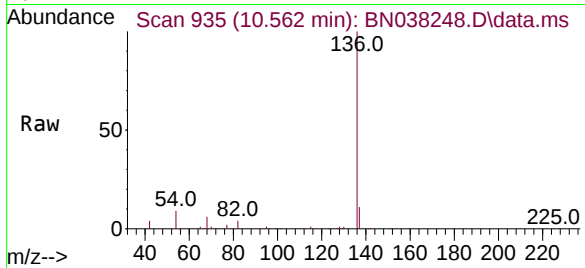




#7  
Naphthalene-d8  
Concen: 0.400 ng  
RT: 10.562 min Scan# 936  
Delta R.T. -0.011 min  
Lab File: BN038248.D  
Acq: 02 Dec 2025 04:44

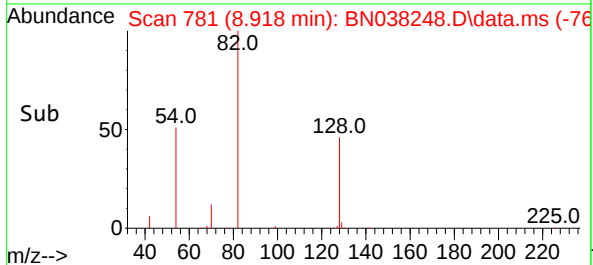
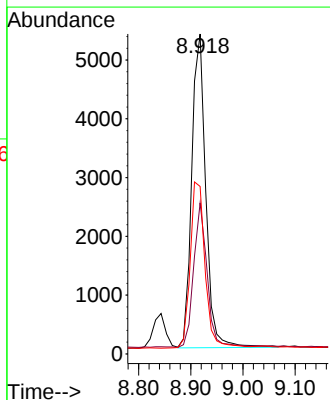
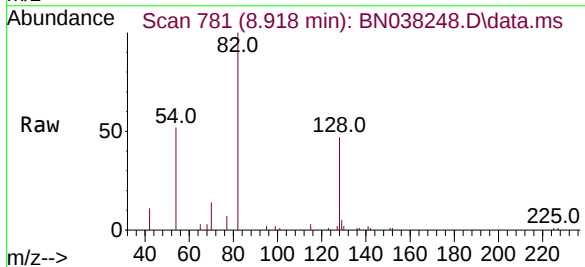
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDCCC0.4EC

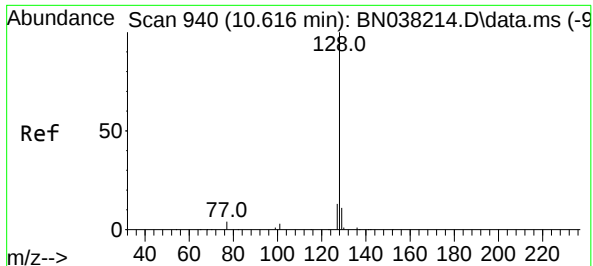
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 136   | Resp: | 30844 |
| Ion      | Ratio | Lower | Upper |
| 136      | 100   |       |       |
| 137      | 11.2  | 8.9   | 13.3  |
| 54       | 8.8   | 5.4   | 8.0#  |
| 68       | 6.5   | 4.1   | 6.1#  |



#8  
Nitrobenzene-d5  
Concen: 0.404 ng  
RT: 8.918 min Scan# 781  
Delta R.T. 0.000 min  
Lab File: BN038248.D  
Acq: 02 Dec 2025 04:44

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 82    | Resp: | 9976  |
| Ion      | Ratio | Lower | Upper |
| 82       | 100   |       |       |
| 128      | 47.2  | 32.6  | 48.8  |
| 54       | 52.3  | 45.4  | 68.0  |

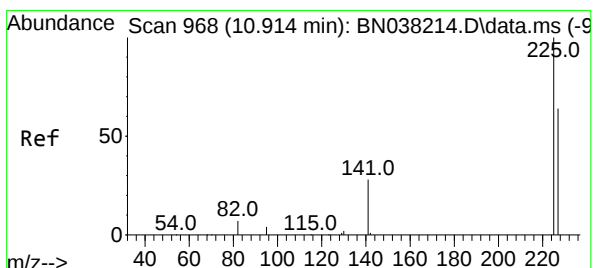
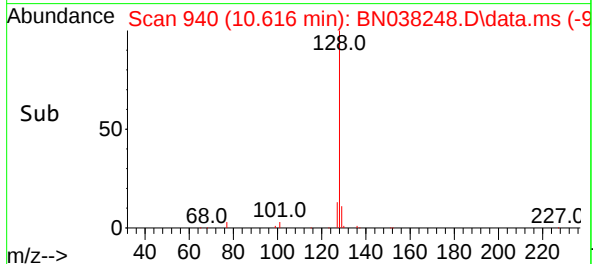
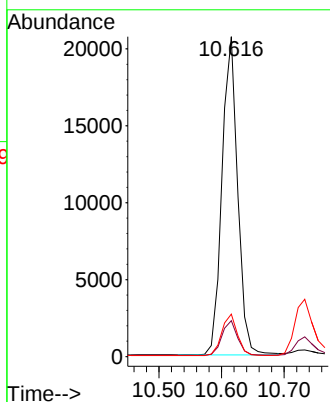
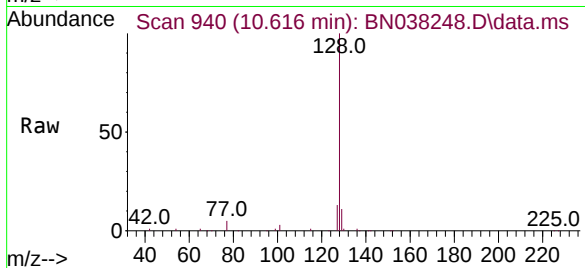




#9  
Naphthalene  
Concen: 0.419 ng  
RT: 10.616 min Scan# 940  
Delta R.T. 0.000 min  
Lab File: BN038248.D  
Acq: 02 Dec 2025 04:44

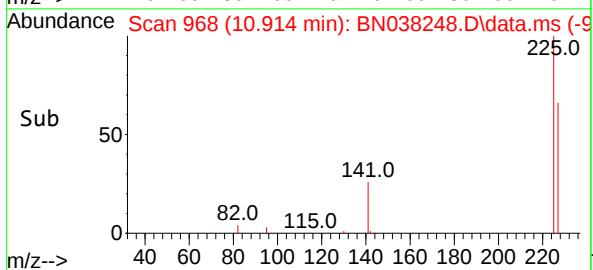
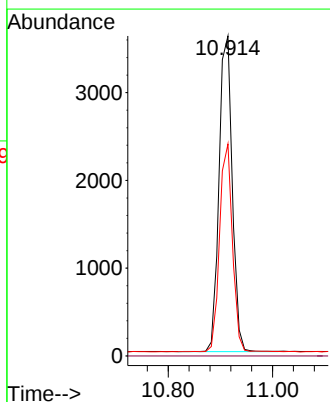
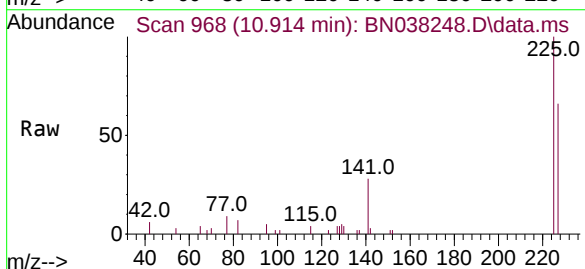
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDCCC0.4EC

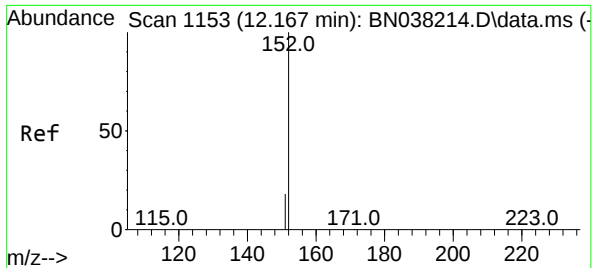
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 128     | 100   |       |       |
| 129     | 11.3  | 9.1   | 13.7  |
| 127     | 13.3  | 10.6  | 16.0  |



#10  
Hexachlorobutadiene  
Concen: 0.434 ng  
RT: 10.914 min Scan# 968  
Delta R.T. 0.000 min  
Lab File: BN038248.D  
Acq: 02 Dec 2025 04:44

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 225     | 100   |       |       |
| 223     | 0.0   | 0.0   | 0.0   |
| 227     | 64.3  | 50.5  | 75.7  |

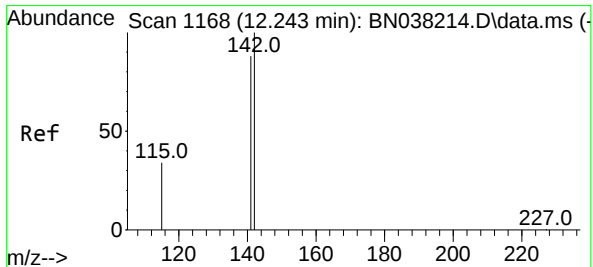
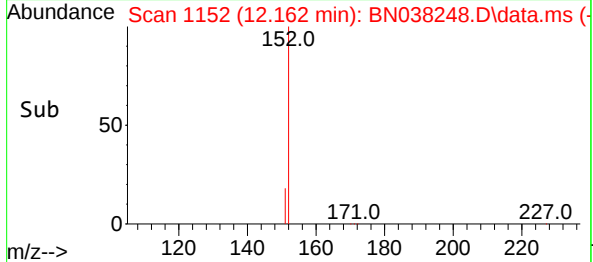
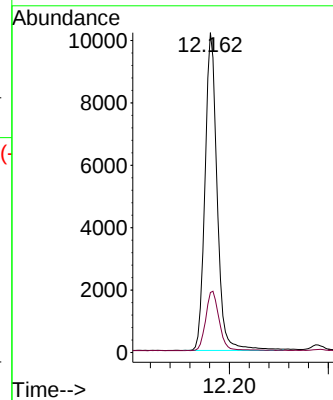
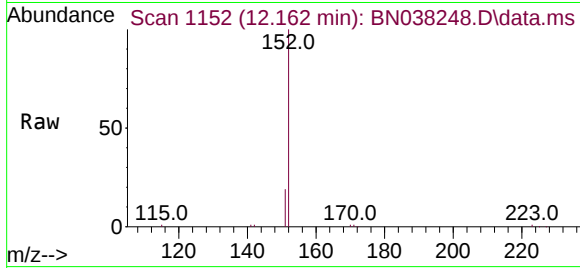




#11  
2-Methylnaphthalene-d10  
Concen: 0.396 ng  
RT: 12.162 min Scan# 1153  
Delta R.T. -0.005 min  
Lab File: BN038248.D  
Acq: 02 Dec 2025 04:44

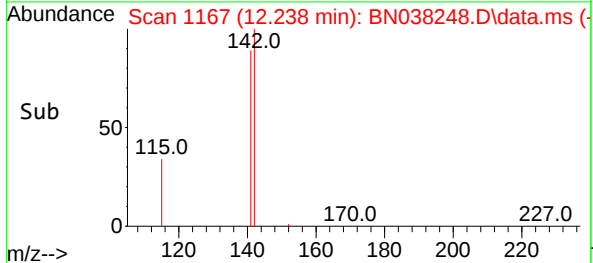
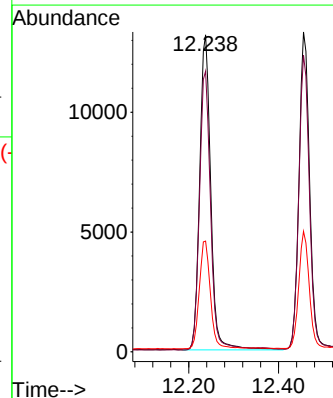
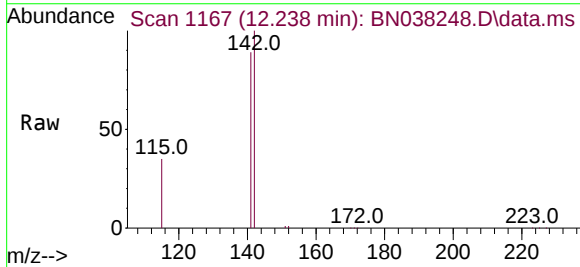
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDCCC0.4EC

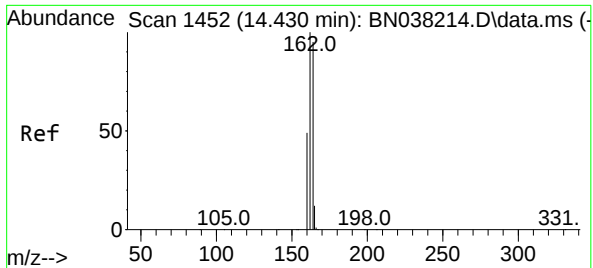
Tgt Ion:152 Resp: 17348  
Ion Ratio Lower Upper  
152 100  
151 20.8 16.7 25.1



#12  
2-Methylnaphthalene  
Concen: 0.399 ng  
RT: 12.238 min Scan# 1167  
Delta R.T. -0.005 min  
Lab File: BN038248.D  
Acq: 02 Dec 2025 04:44

Tgt Ion:142 Resp: 22514  
Ion Ratio Lower Upper  
142 100  
141 88.5 70.9 106.3  
115 35.0 27.7 41.5

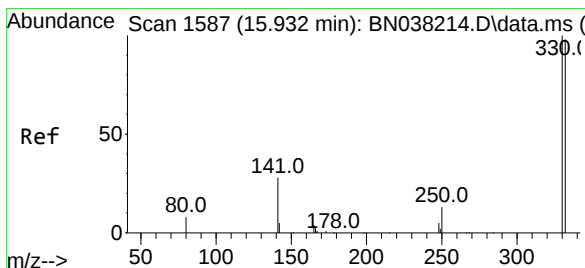
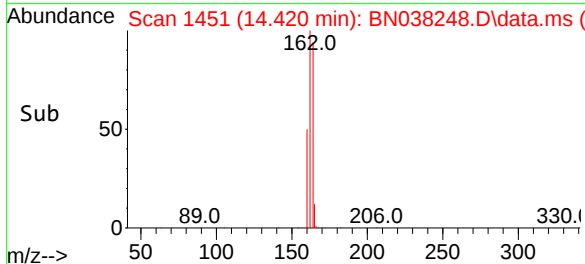
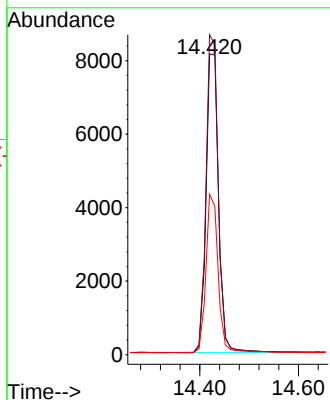
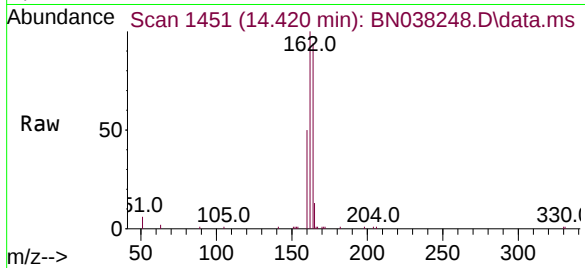




#13  
Acenaphthene-d10  
Concen: 0.400 ng  
RT: 14.420 min Scan# 1452  
Delta R.T. -0.011 min  
Lab File: BN038248.D  
Acq: 02 Dec 2025 04:44

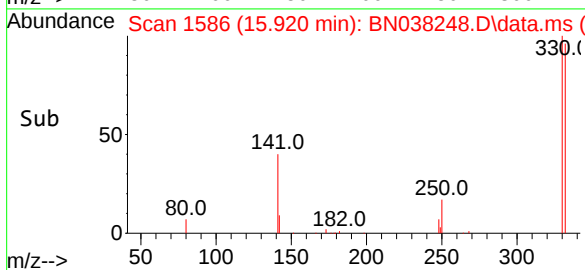
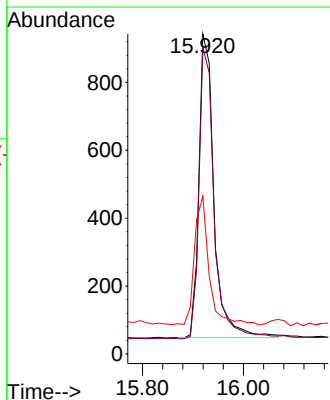
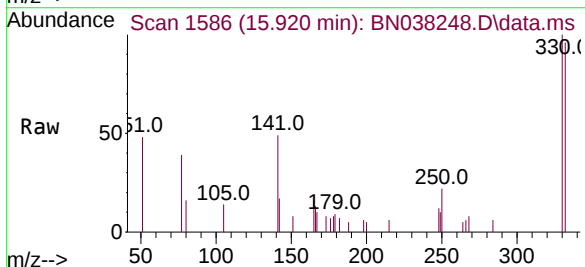
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDCCC0.4EC

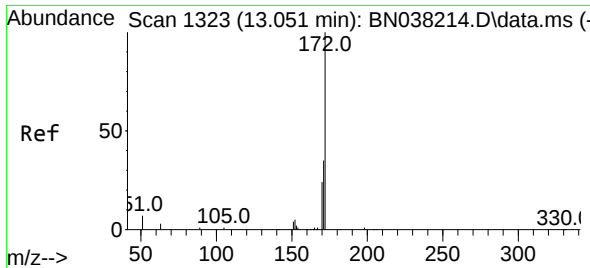
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 164     | 100   |       |       |
| 162     | 106.5 | 83.8  | 125.8 |
| 160     | 53.4  | 41.6  | 62.4  |



#14  
2,4,6-Tribromophenol  
Concen: 0.412 ng  
RT: 15.920 min Scan# 1586  
Delta R.T. -0.012 min  
Lab File: BN038248.D  
Acq: 02 Dec 2025 04:44

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 330     | 100   |       |       |
| 332     | 96.0  | 77.8  | 116.6 |
| 141     | 40.6  | 33.0  | 49.4  |

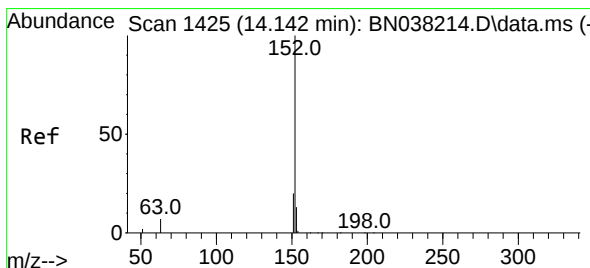
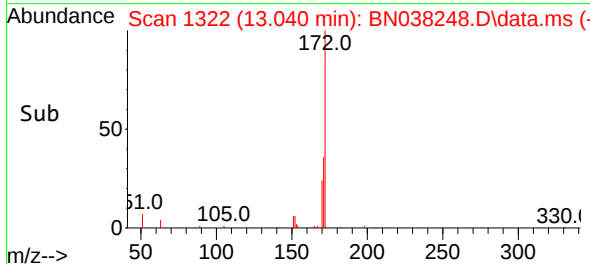
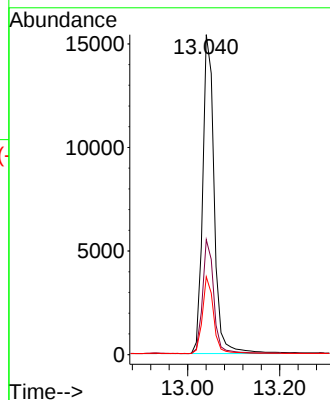
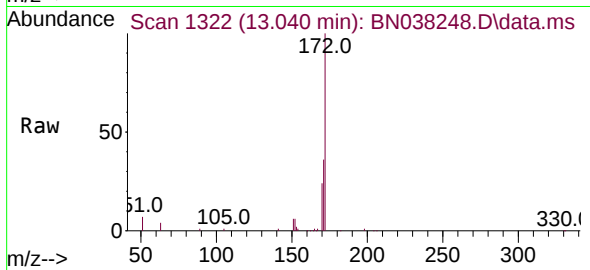




#15  
2-Fluorobiphenyl  
Concen: 0.430 ng  
RT: 13.040 min Scan# 1323  
Delta R.T. -0.011 min  
Lab File: BN038248.D  
Acq: 02 Dec 2025 04:44

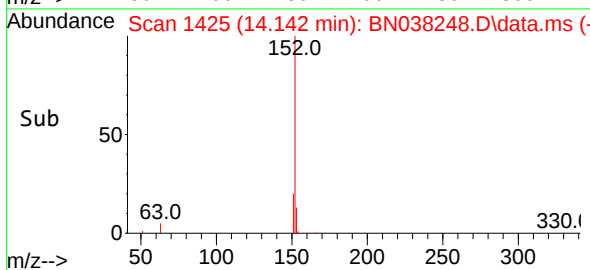
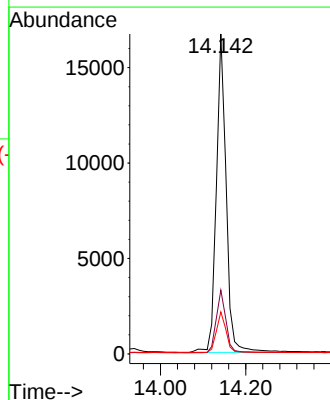
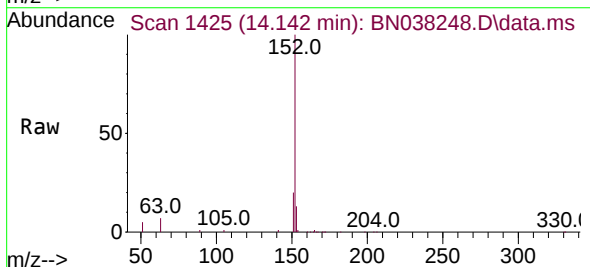
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDCCC0.4EC

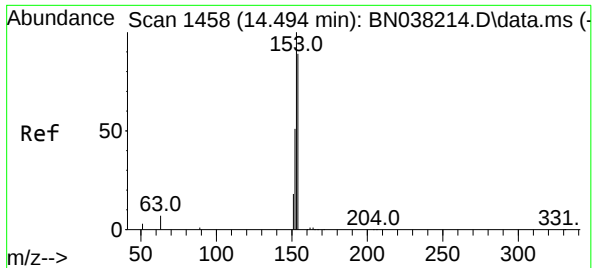
|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 172   | Resp: | 23718 |
| Ion Ratio | Lower | Upper |       |
| 172       | 100   |       |       |
| 171       | 35.9  | 28.1  | 42.1  |
| 170       | 24.3  | 19.1  | 28.7  |



#16  
Acenaphthylene  
Concen: 0.419 ng  
RT: 14.142 min Scan# 1425  
Delta R.T. 0.000 min  
Lab File: BN038248.D  
Acq: 02 Dec 2025 04:44

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 152   | Resp: | 26695 |
| Ion Ratio | Lower | Upper |       |
| 152       | 100   |       |       |
| 151       | 19.5  | 15.6  | 23.4  |
| 153       | 12.9  | 10.6  | 15.8  |

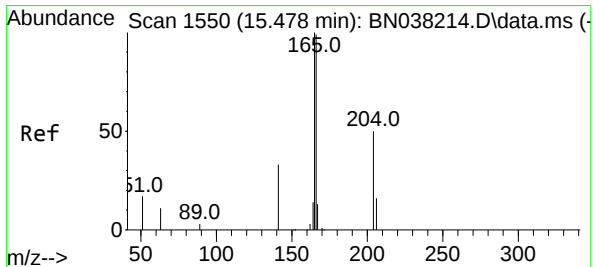
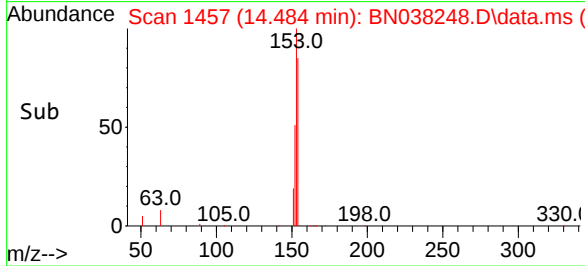
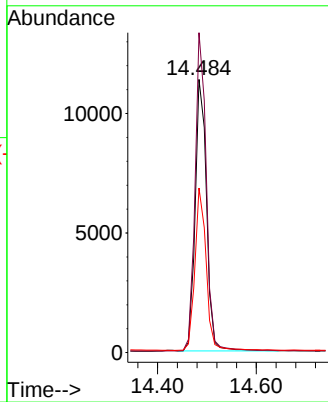
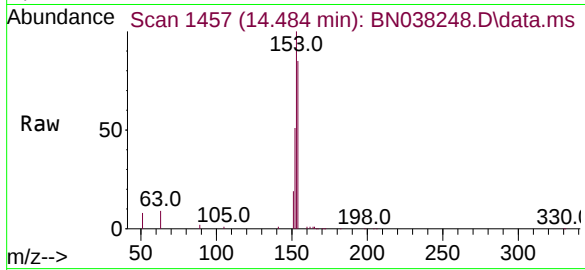




#17  
Acenaphthene  
Concen: 0.408 ng  
RT: 14.484 min Scan# 1458  
Delta R.T. -0.011 min  
Lab File: BN038248.D  
Acq: 02 Dec 2025 04:44

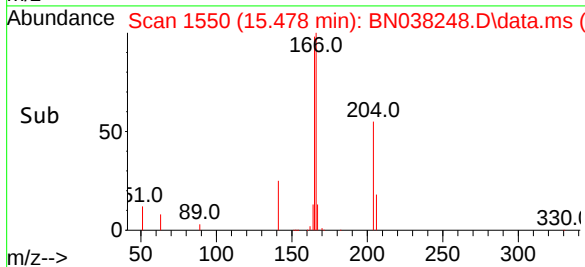
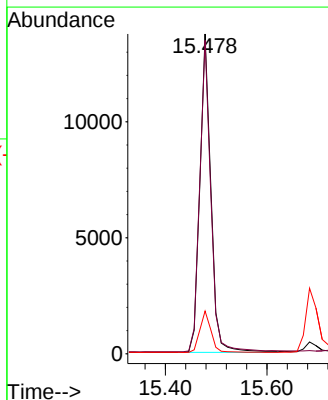
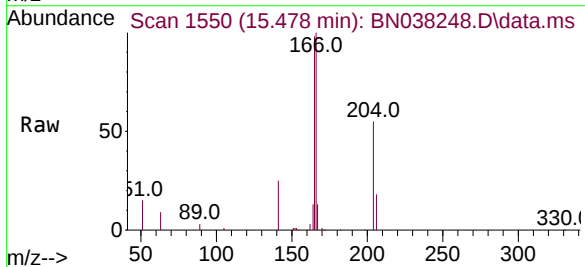
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDCCC0.4EC

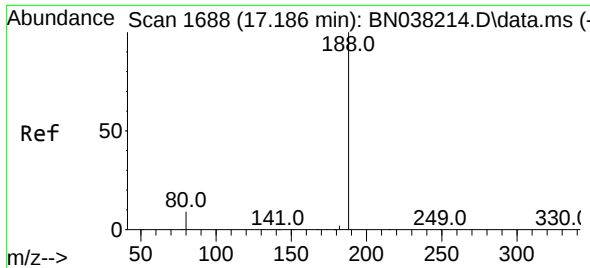
Tgt Ion:154 Resp: 18161  
Ion Ratio Lower Upper  
154 100  
153 116.1 91.1 136.7  
152 59.6 48.2 72.2



#18  
Fluorene  
Concen: 0.388 ng  
RT: 15.478 min Scan# 1550  
Delta R.T. -0.000 min  
Lab File: BN038248.D  
Acq: 02 Dec 2025 04:44

Tgt Ion:166 Resp: 22344  
Ion Ratio Lower Upper  
166 100  
165 96.3 78.7 118.1  
167 13.3 10.9 16.3





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 17.173 min Scan# 1688

Delta R.T. -0.012 min

Lab File: BN038248.D

Acq: 02 Dec 2025 04:44

Instrument :

BNA\_N

ClientSampleId :

SSTDCCC0.4EC

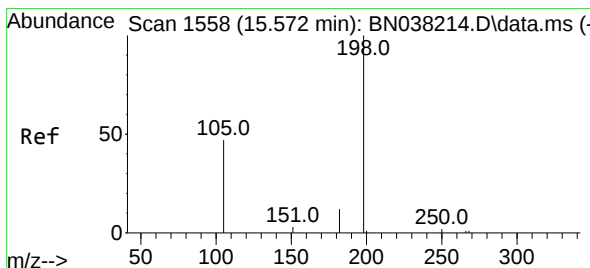
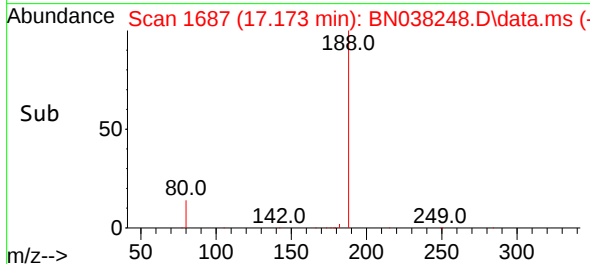
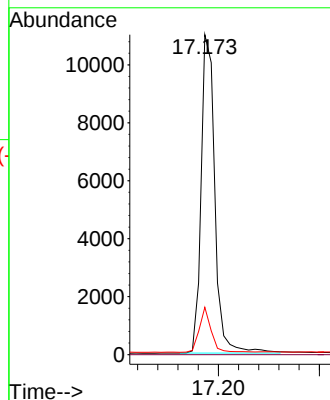
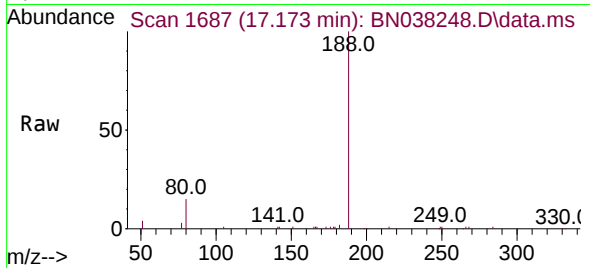
Tgt Ion:188 Resp: 20647

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 14.8 7.7 11.5#



#20

4,6-Dinitro-2-methylphenol

Concen: 0.325 ng

RT: 15.560 min Scan# 1557

Delta R.T. -0.012 min

Lab File: BN038248.D

Acq: 02 Dec 2025 04:44

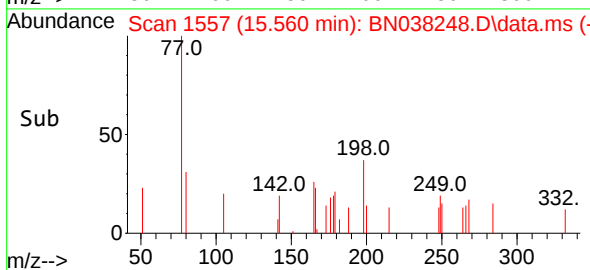
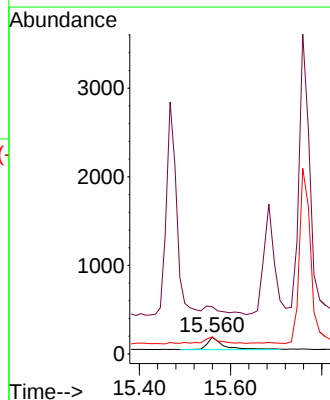
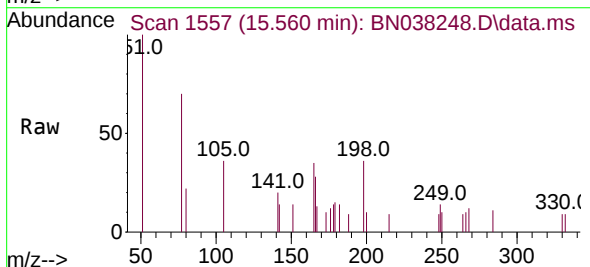
Tgt Ion:198 Resp: 338

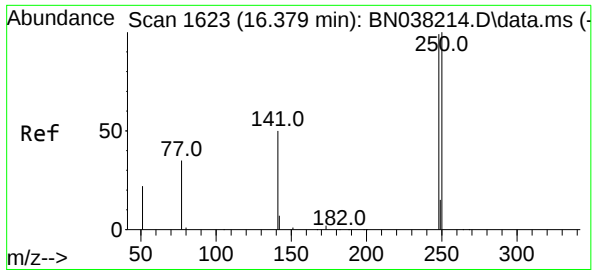
Ion Ratio Lower Upper

198 100

51 280.5 205.1 307.7

105 101.1 61.6 92.4#

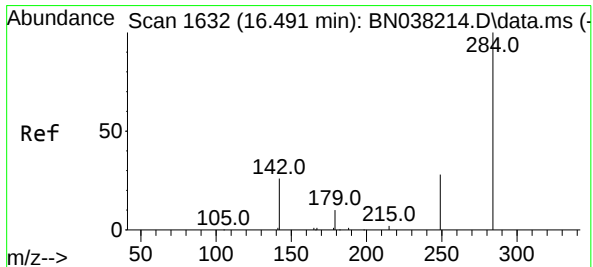
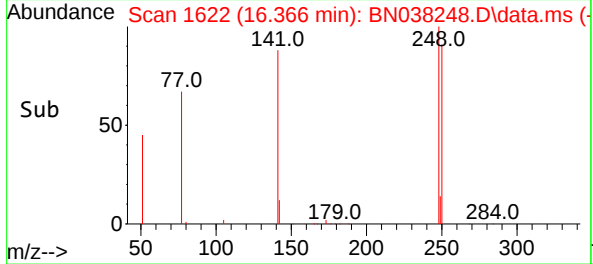
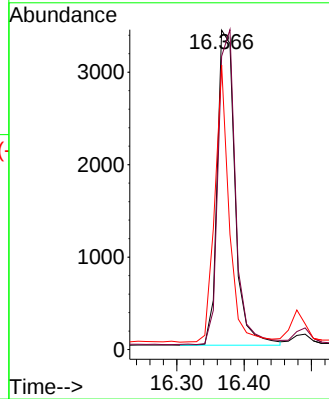
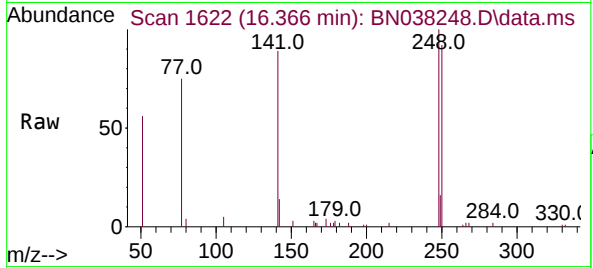




#21  
4-Bromophenyl-phenylether  
Concen: 0.438 ng  
RT: 16.366 min Scan# 1622  
Delta R.T. -0.012 min  
Lab File: BN038248.D  
Acq: 02 Dec 2025 04:44

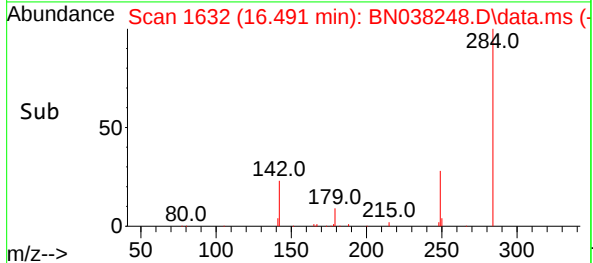
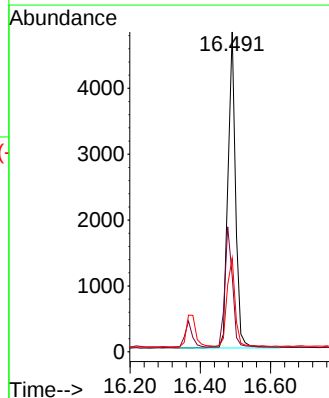
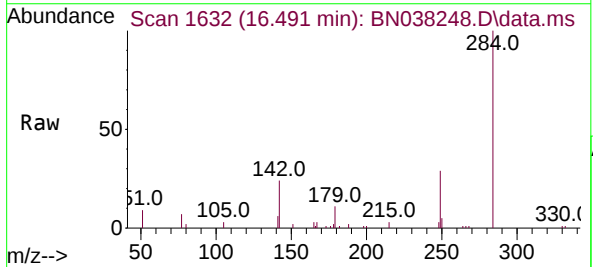
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDCCC0.4EC

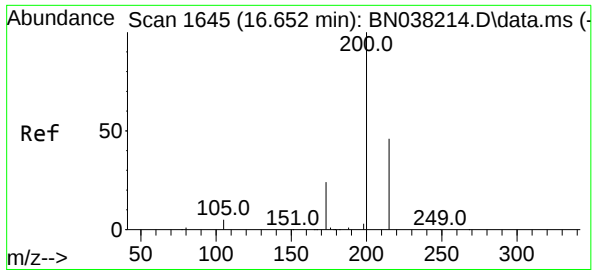
Tgt Ion:248 Resp: 6262  
Ion Ratio Lower Upper  
248 100  
250 91.8 80.8 121.2  
141 89.1 41.0 61.6#



#22  
Hexachlorobenzene  
Concen: 0.409 ng  
RT: 16.491 min Scan# 1632  
Delta R.T. 0.000 min  
Lab File: BN038248.D  
Acq: 02 Dec 2025 04:44

Tgt Ion:284 Resp: 7188  
Ion Ratio Lower Upper  
284 100  
142 38.6 30.5 45.7  
249 30.1 23.8 35.8

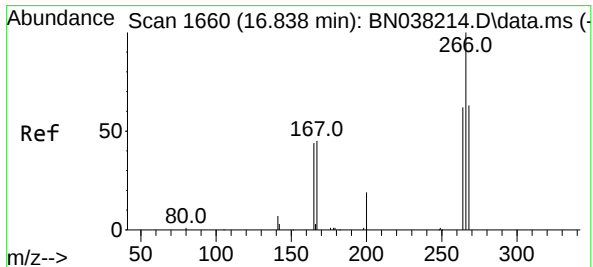
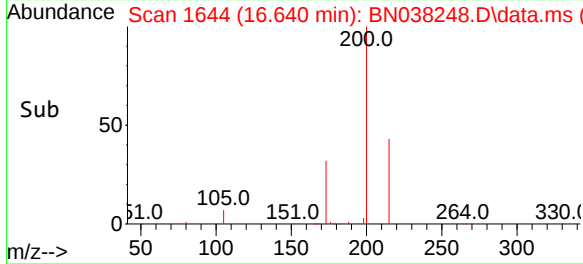
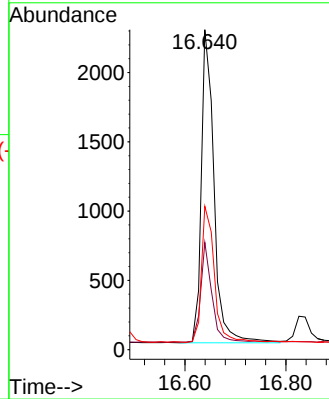
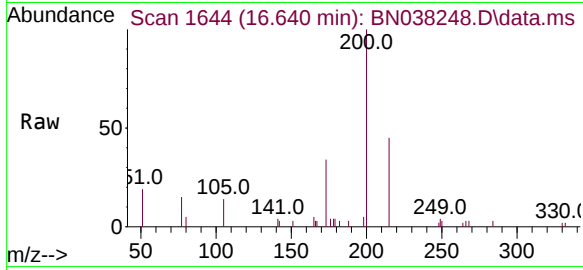




#23  
Atrazine  
Concen: 0.429 ng  
RT: 16.640 min Scan# 1644  
Delta R.T. -0.012 min  
Lab File: BN038248.D  
Acq: 02 Dec 2025 04:44

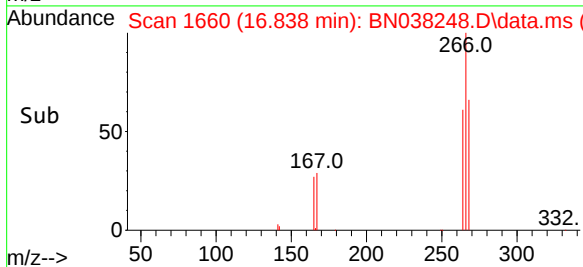
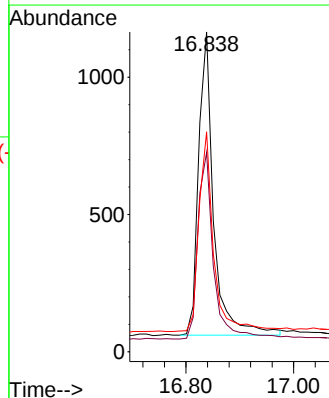
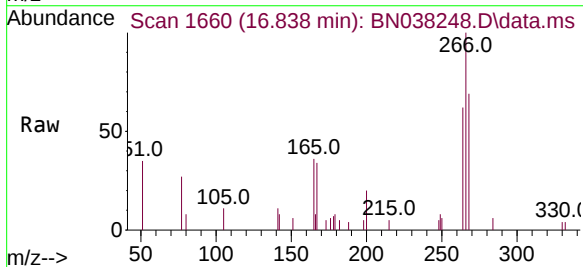
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDCCC0.4EC

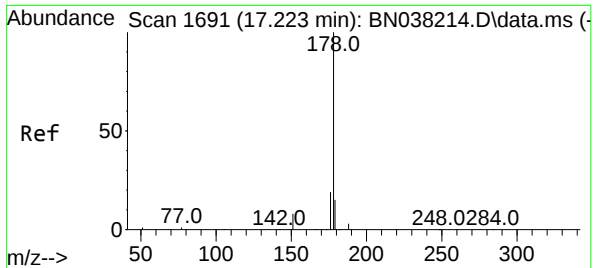
Tgt Ion:200 Resp: 3923  
Ion Ratio Lower Upper  
200 100  
173 33.5 21.0 31.6#  
215 44.8 37.8 56.8



#24  
Pentachlorophenol  
Concen: 0.443 ng  
RT: 16.838 min Scan# 1660  
Delta R.T. 0.000 min  
Lab File: BN038248.D  
Acq: 02 Dec 2025 04:44

Tgt Ion:266 Resp: 2138  
Ion Ratio Lower Upper  
266 100  
264 63.9 48.9 73.3  
268 64.7 50.2 75.2

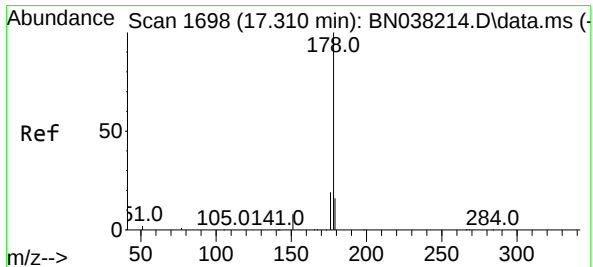
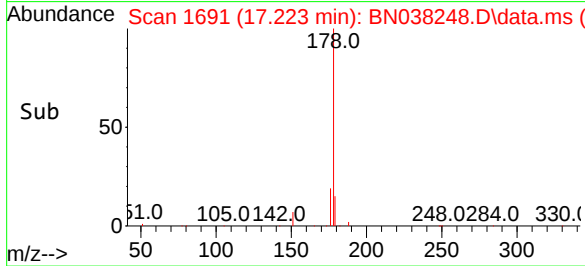
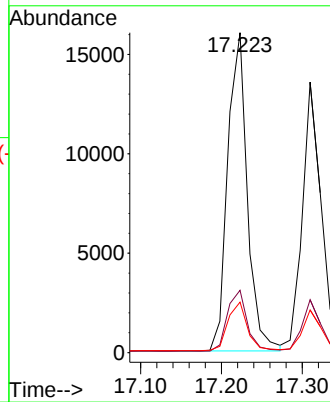
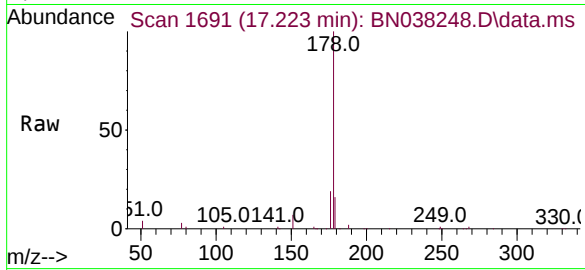




#25  
Phenanthrene  
Concen: 0.417 ng  
RT: 17.223 min Scan# 1691  
Delta R.T. 0.000 min  
Lab File: BN038248.D  
Acq: 02 Dec 2025 04:44

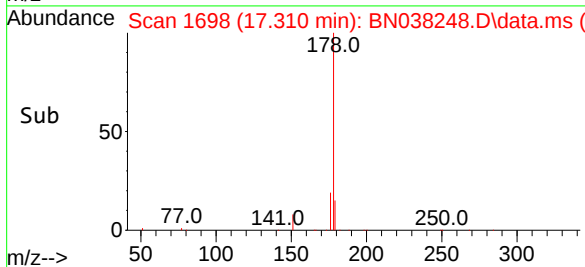
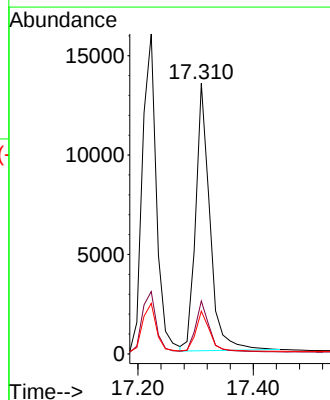
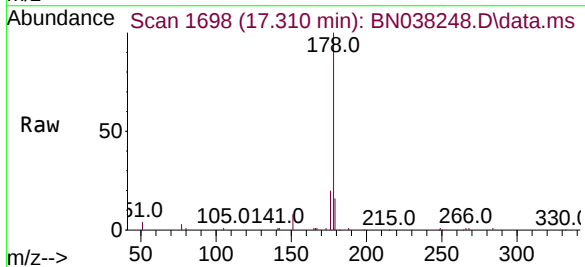
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDCCC0.4EC

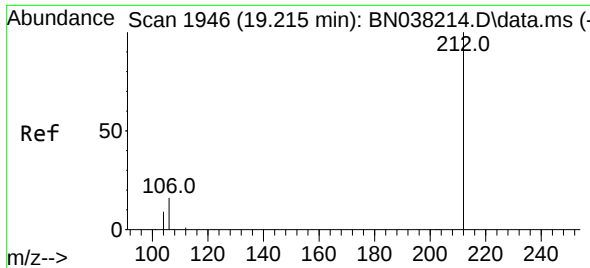
Tgt Ion:178 Resp: 27027  
Ion Ratio Lower Upper  
178 100  
176 19.3 15.3 22.9  
179 15.6 12.0 18.0



#26  
Anthracene  
Concen: 0.416 ng  
RT: 17.310 min Scan# 1698  
Delta R.T. 0.000 min  
Lab File: BN038248.D  
Acq: 02 Dec 2025 04:44

Tgt Ion:178 Resp: 23016  
Ion Ratio Lower Upper  
178 100  
176 18.9 14.7 22.1  
179 15.1 12.3 18.5

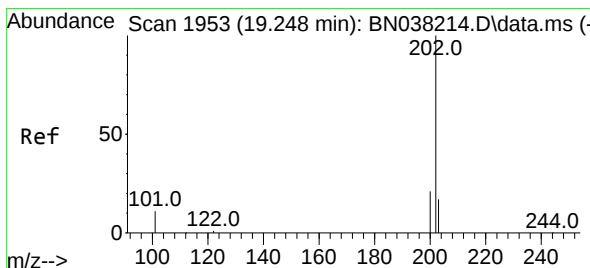
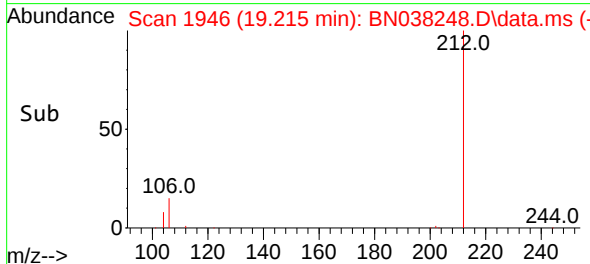
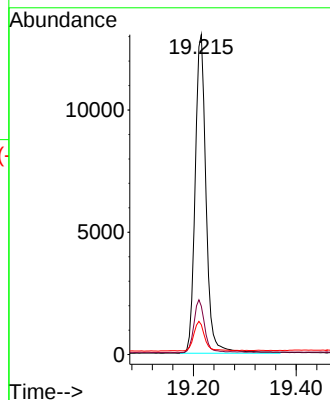
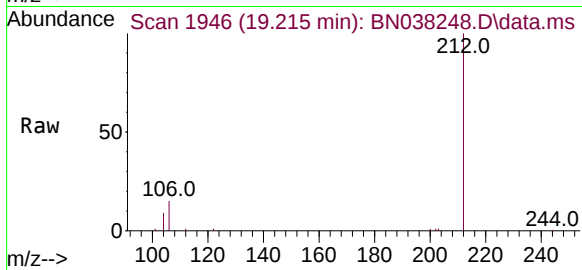




#27  
Fluoranthene-d10  
Concen: 0.426 ng  
RT: 19.215 min Scan# 1946  
Delta R.T. 0.000 min  
Lab File: BN038248.D  
Acq: 02 Dec 2025 04:44

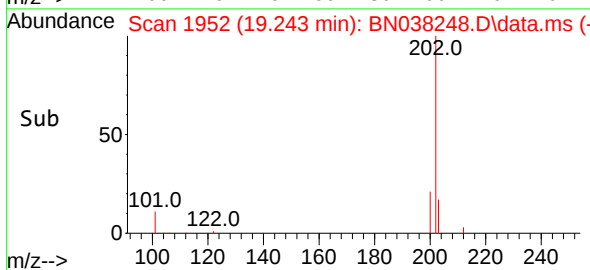
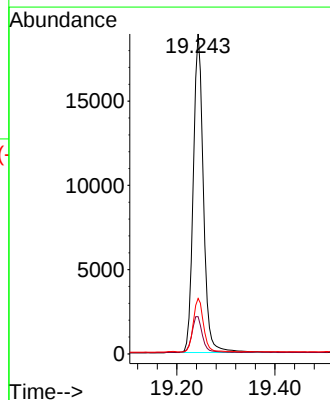
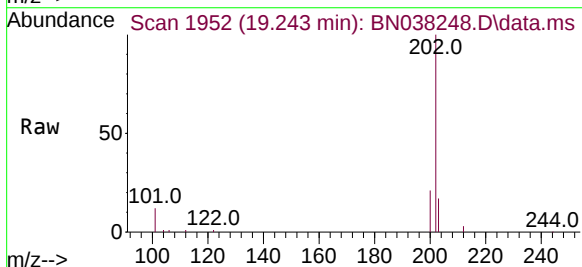
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDCCC0.4EC

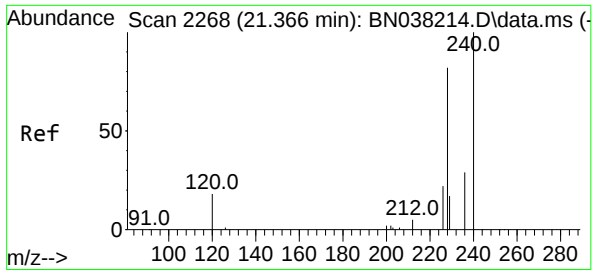
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 212     | 100   |       |       |
| 106     | 16.1  | 12.7  | 19.1  |
| 104     | 9.2   | 7.3   | 10.9  |



#28  
Fluoranthene  
Concen: 0.434 ng  
RT: 19.243 min Scan# 1952  
Delta R.T. -0.005 min  
Lab File: BN038248.D  
Acq: 02 Dec 2025 04:44

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 202     | 100   |       |       |
| 101     | 11.6  | 9.8   | 14.6  |
| 203     | 16.9  | 13.6  | 20.4  |

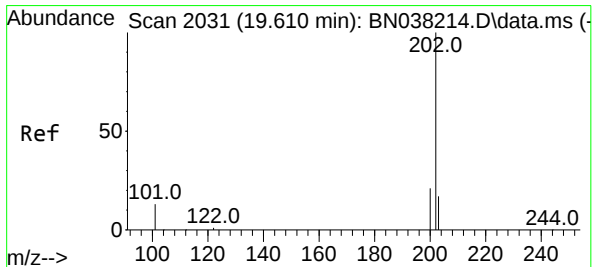
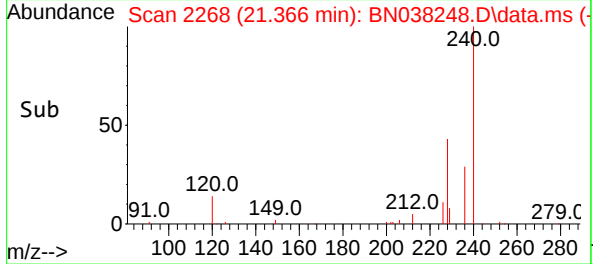
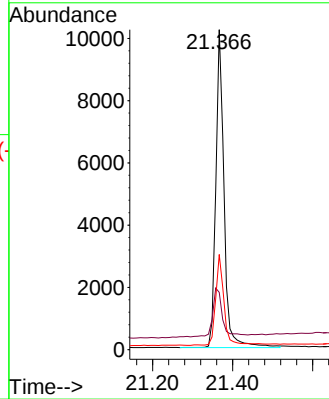
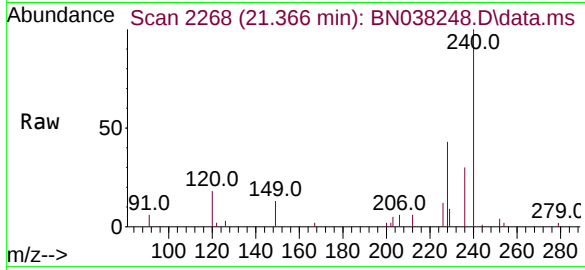




#29  
Chrysene-d12  
Concen: 0.400 ng  
RT: 21.366 min Scan# 21  
Delta R.T. 0.000 min  
Lab File: BN038248.D  
Acq: 02 Dec 2025 04:44

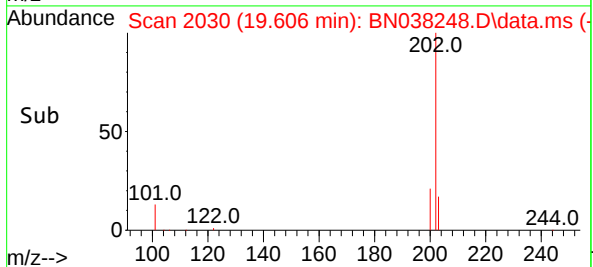
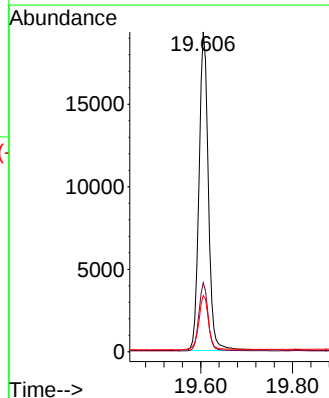
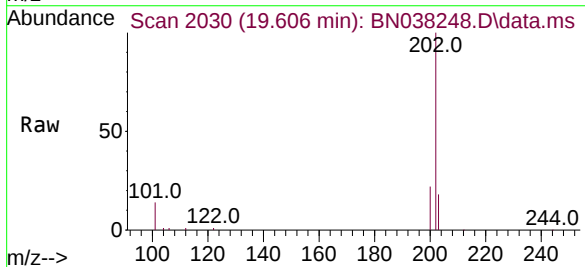
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDCCC0.4EC

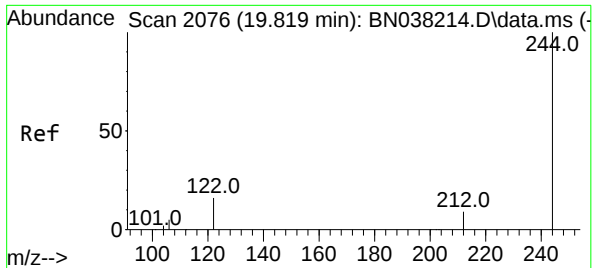
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 240     | 100   |       |       |
| 120     | 17.9  | 18.1  | 27.1# |
| 236     | 29.7  | 24.2  | 36.4  |



#30  
Pyrene  
Concen: 0.373 ng  
RT: 19.606 min Scan# 2030  
Delta R.T. -0.005 min  
Lab File: BN038248.D  
Acq: 02 Dec 2025 04:44

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 202     | 100   |       |       |
| 200     | 21.2  | 16.8  | 25.2  |
| 203     | 17.9  | 14.4  | 21.6  |

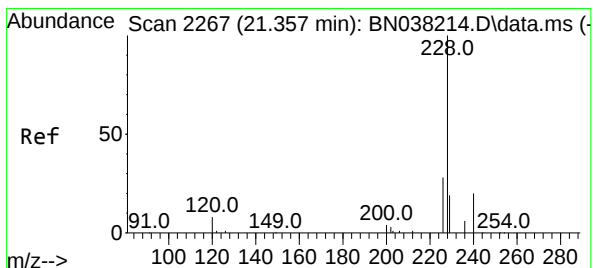
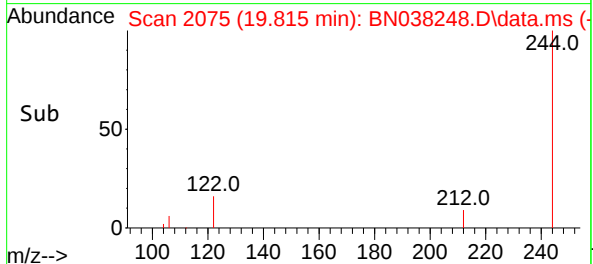
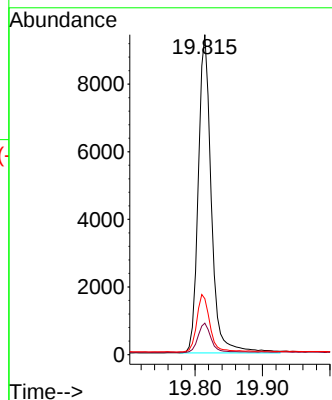
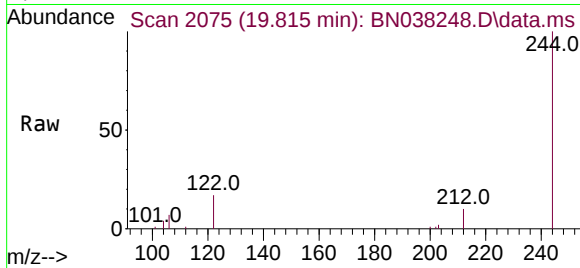




#31  
Terphenyl-d14  
Concen: 0.373 ng  
RT: 19.815 min Scan# 2075  
Delta R.T. -0.005 min  
Lab File: BN038248.D  
Acq: 02 Dec 2025 04:44

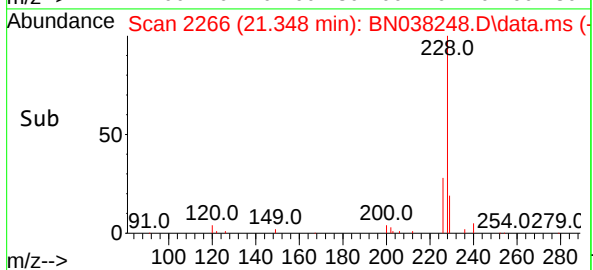
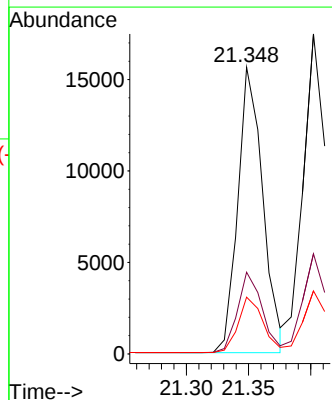
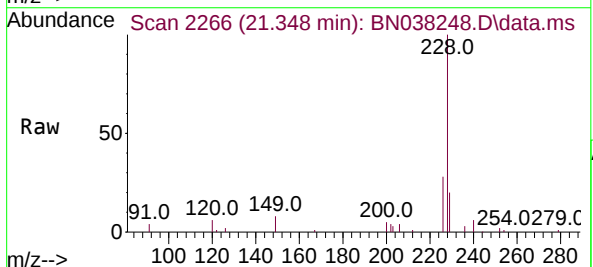
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDCCC0.4EC

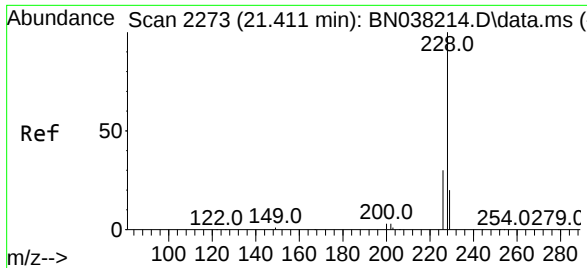
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 244     | 100   |       |       |
| 212     | 9.8   | 7.7   | 11.5  |
| 122     | 17.5  | 13.6  | 20.4  |



#32  
Benzo(a)anthracene  
Concen: 0.440 ng  
RT: 21.348 min Scan# 2266  
Delta R.T. -0.009 min  
Lab File: BN038248.D  
Acq: 02 Dec 2025 04:44

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 228     | 100   |       |       |
| 226     | 28.5  | 22.6  | 33.8  |
| 229     | 19.8  | 15.8  | 23.8  |

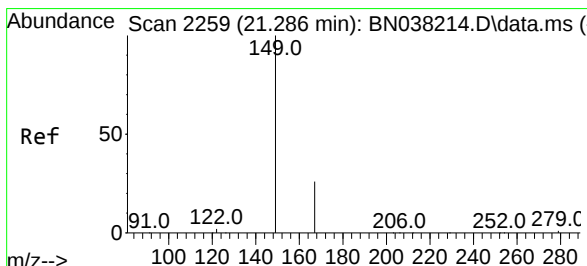
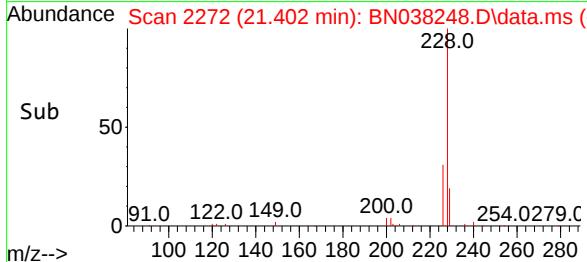
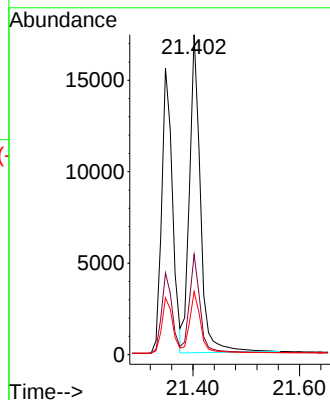
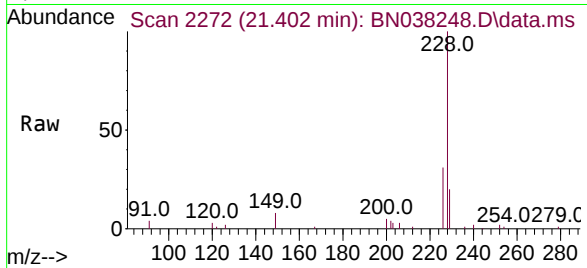




#33  
Chrysene  
Concen: 0.424 ng  
RT: 21.402 min Scan# 21  
Delta R.T. -0.009 min  
Lab File: BN038248.D  
Acq: 02 Dec 2025 04:44

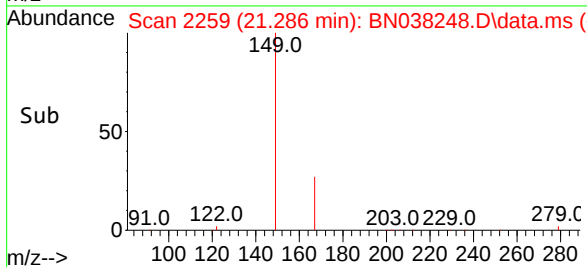
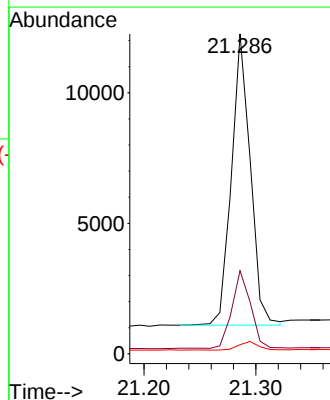
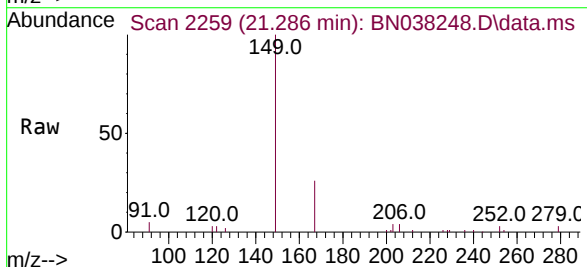
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDCCC0.4EC

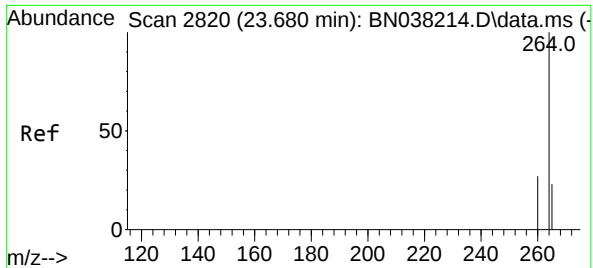
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 228     | 100   |       |       |
| 226     | 31.3  | 23.8  | 35.8  |
| 229     | 19.7  | 16.1  | 24.1  |



#34  
Bis(2-ethylhexyl)phthalate  
Concen: 0.481 ng  
RT: 21.286 min Scan# 2259  
Delta R.T. 0.000 min  
Lab File: BN038248.D  
Acq: 02 Dec 2025 04:44

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 149     | 100   |       |       |
| 167     | 26.2  | 20.7  | 31.1  |
| 279     | 3.2   | 2.5   | 3.7   |





#35

Perylene-d12

Concen: 0.400 ng

RT: 23.674 min Scan# 2818

Delta R.T. -0.006 min

Lab File: BN038248.D

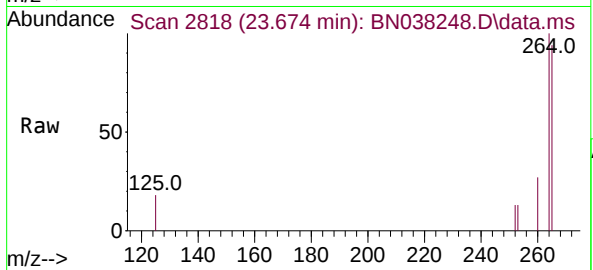
Acq: 02 Dec 2025 04:44

Instrument :

BNA\_N

ClientSampleId :

SSTDCCC0.4EC



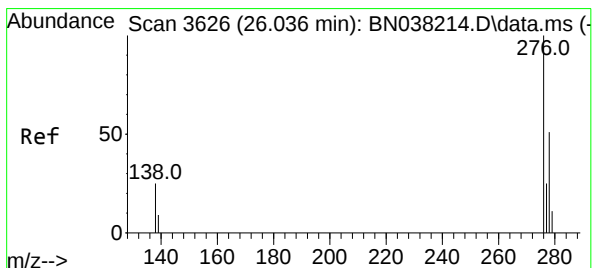
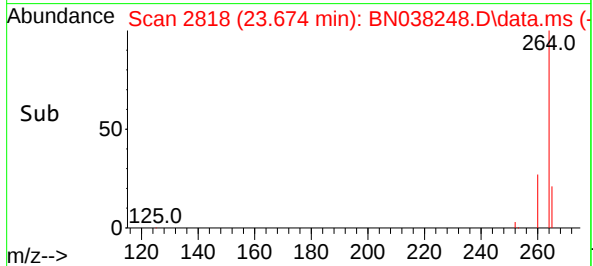
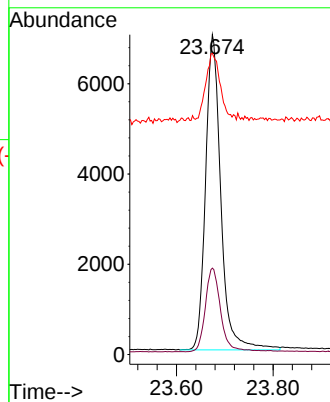
Tgt Ion:264 Resp: 15261

Ion Ratio Lower Upper

264 100

260 27.0 21.7 32.5

265 94.1 98.0 147.0#



#36

Indeno(1,2,3-cd)pyrene

Concen: 0.426 ng

RT: 26.022 min Scan# 3621

Delta R.T. -0.015 min

Lab File: BN038248.D

Acq: 02 Dec 2025 04:44

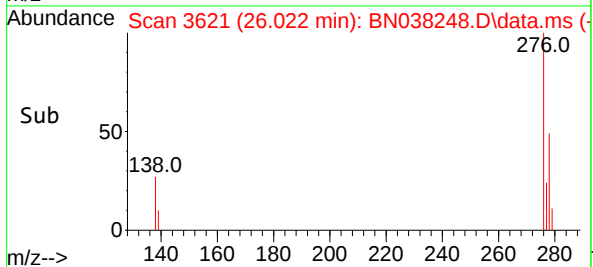
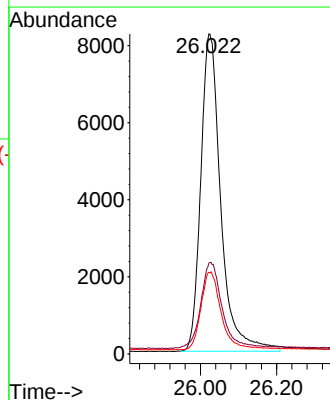
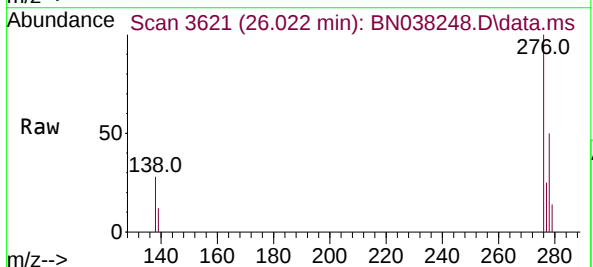
Tgt Ion:276 Resp: 30080

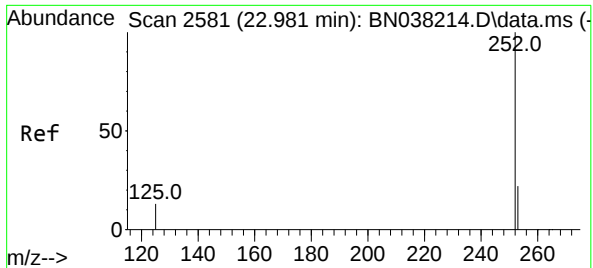
Ion Ratio Lower Upper

276 100

138 28.1 21.4 32.2

277 24.3 19.1 28.7





#37

Benzo(b)fluoranthene

Concen: 0.404 ng

RT: 22.975 min Scan# 2579

Delta R.T. -0.006 min

Lab File: BN038248.D

Acq: 02 Dec 2025 04:44

Instrument :

BNA\_N

ClientSampleId :

SSTDCCC0.4EC

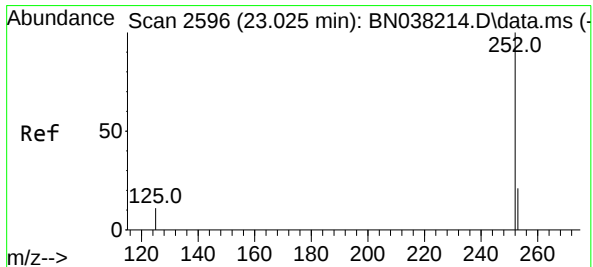
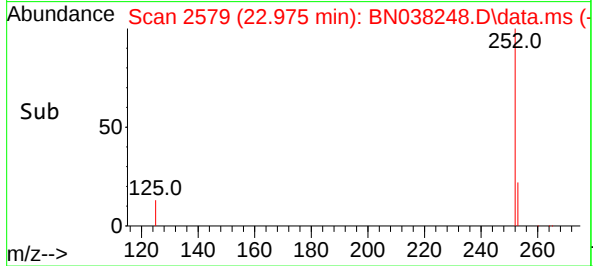
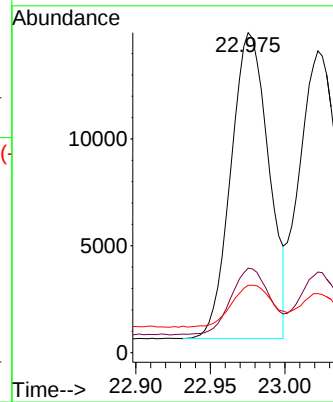
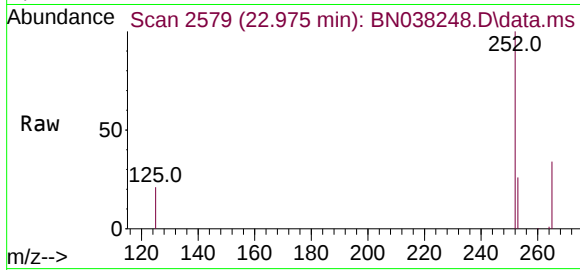
Tgt Ion:252 Resp: 25327

Ion Ratio Lower Upper

252 100

253 26.4 22.2 33.4

125 21.0 18.0 27.0



#38

Benzo(k)fluoranthene

Concen: 0.386 ng

RT: 23.022 min Scan# 2595

Delta R.T. -0.003 min

Lab File: BN038248.D

Acq: 02 Dec 2025 04:44

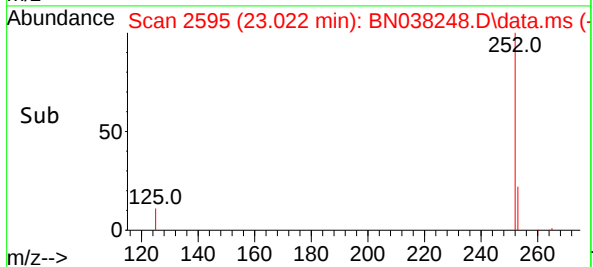
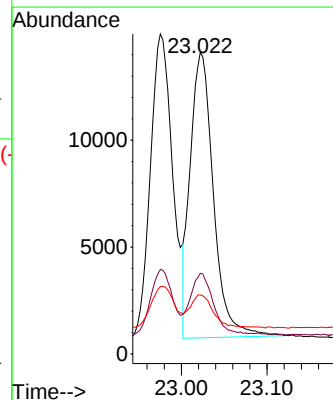
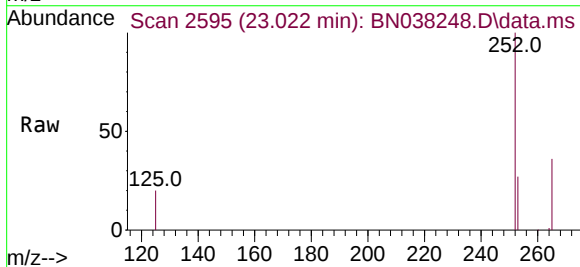
Tgt Ion:252 Resp: 25148

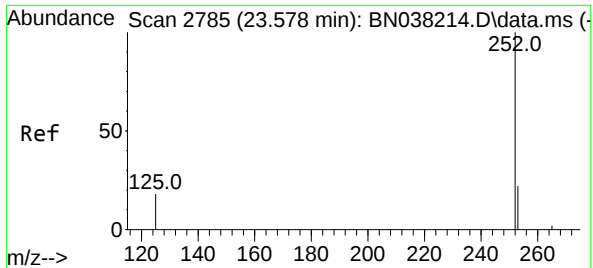
Ion Ratio Lower Upper

252 100

253 26.7 22.4 33.6

125 19.6 17.5 26.3





#39

Benzo(a)pyrene

Concen: 0.418 ng

RT: 23.575 min Scan# 21

Delta R.T. -0.003 min

Lab File: BN038248.D

Acq: 02 Dec 2025 04:44

Instrument :

BNA\_N

ClientSampleId :

SSTDCCC0.4EC

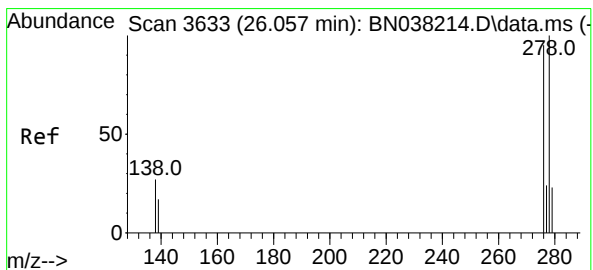
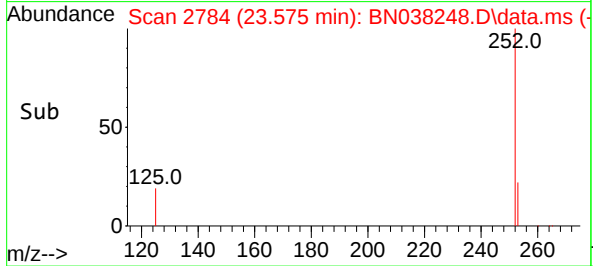
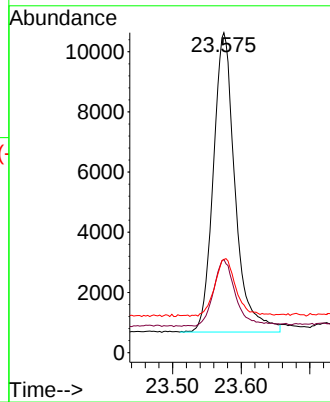
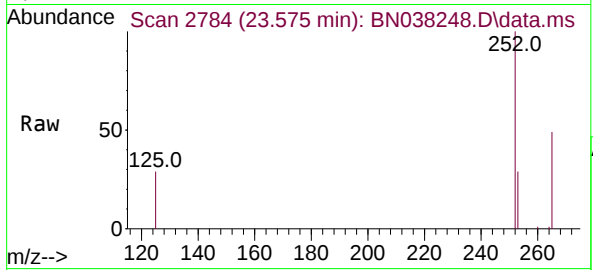
Tgt Ion:252 Resp: 21958

Ion Ratio Lower Upper

252 100

253 29.1 25.3 37.9

125 29.1 25.2 37.8



#40

Dibenzo(a,h)anthracene

Concen: 0.434 ng

RT: 26.042 min Scan# 3628

Delta R.T. -0.015 min

Lab File: BN038248.D

Acq: 02 Dec 2025 04:44

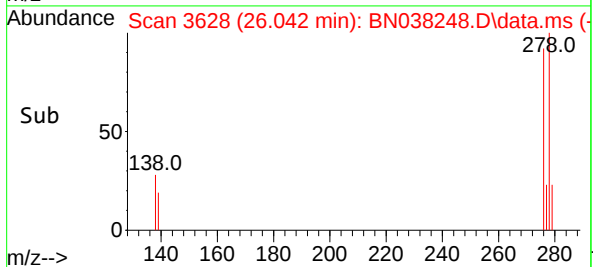
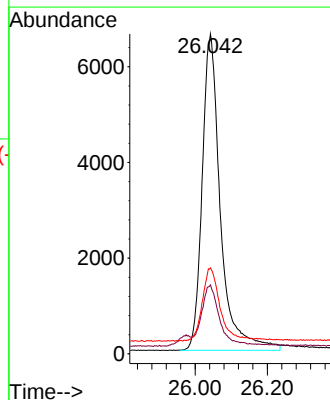
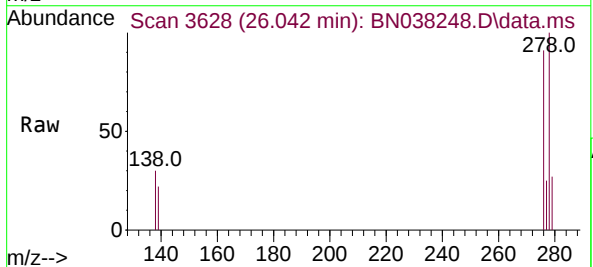
Tgt Ion:278 Resp: 23186

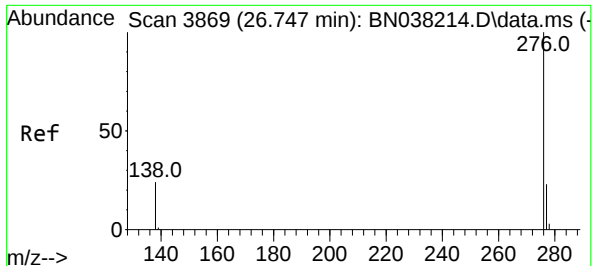
Ion Ratio Lower Upper

278 100

139 21.5 17.6 26.4

279 26.9 24.2 36.4





#41

Benzo(g,h,i)perylene

Concen: 0.409 ng

RT: 26.741 min Scan# 38

Delta R.T. -0.006 min

Lab File: BN038248.D

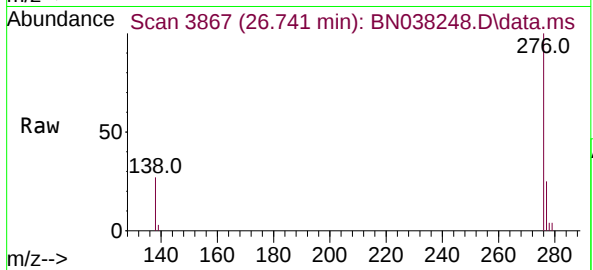
Acq: 02 Dec 2025 04:44

Instrument :

BNA\_N

ClientSampleId :

SSTDCCC0.4EC



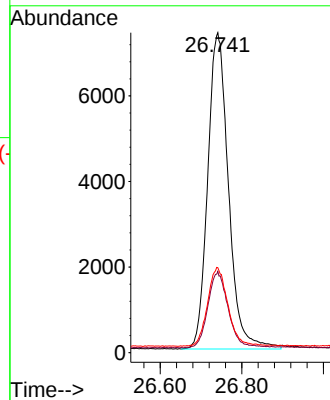
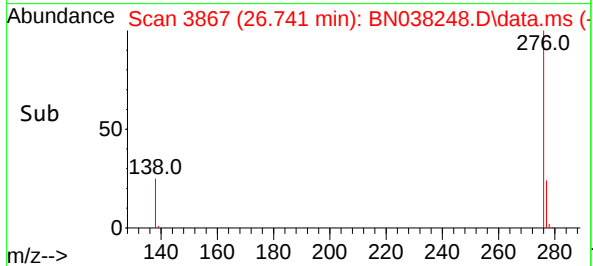
Tgt Ion:276 Resp: 26137

Ion Ratio Lower Upper

276 100

277 25.4 20.2 30.2

138 26.5 20.8 31.2



Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN120125\  
 Data File : BN038248.D  
 Acq On : 02 Dec 2025 04:44  
 Operator : RC/JU  
 Sample : SSTDCCC0.4  
 Misc :  
 ALS Vial : 20 Sample Multiplier: 1

Instrument :  
 BNA\_N  
 LabSampleId :  
 SSTDCCC0.4

Quant Time: Dec 02 05:08:32 2025  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\8270-SIM-BN112725.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Fri Nov 28 21:04:10 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   | 137   | 0.00     |
| 2       | 1,4-Dioxane                | 0.421 | 0.416 | 1.2   | 127   | 0.00     |
| 3       | n-Nitrosodimethylamine     | 0.520 | 0.547 | -5.2  | 138   | 0.00     |
| 4 S     | 2-Fluorophenol             | 0.935 | 1.019 | -9.0  | 141   | 0.00     |
| 5 S     | Phenol-d6                  | 1.168 | 1.291 | -10.5 | 146   | 0.00     |
| 6       | bis(2-Chloroethyl)ether    | 1.118 | 1.204 | -7.7  | 139   | 0.00     |
| 7 I     | Naphthalene-d8             | 1.000 | 1.000 | 0.0   | 132   | -0.01    |
| 8 S     | Nitrobenzene-d5            | 0.320 | 0.323 | -0.9  | 137   | 0.00     |
| 9       | Naphthalene                | 1.111 | 1.164 | -4.8  | 133   | 0.00     |
| 10      | Hexachlorobutadiene        | 0.189 | 0.205 | -8.5  | 135   | 0.00     |
| 11 SURR | 2-Methylnaphthalene-d10    | 0.568 | 0.562 | 1.1   | 126   | 0.00     |
| 12      | 2-Methylnaphthalene        | 0.731 | 0.730 | 0.1   | 127   | 0.00     |
| 13 I    | Acenaphthene-d10           | 1.000 | 1.000 | 0.0   | 108   | -0.01    |
| 14 S    | 2,4,6-Tribromophenol       | 0.126 | 0.130 | -3.2  | 113   | -0.01    |
| 15 S    | 2-Fluorobiphenyl           | 1.545 | 1.663 | -7.6  | 113   | -0.01    |
| 16      | Acenaphthylene             | 1.789 | 1.871 | -4.6  | 112   | 0.00     |
| 17      | Acenaphthene               | 1.247 | 1.273 | -2.1  | 106   | -0.01    |
| 18      | Fluorene                   | 1.614 | 1.566 | 3.0   | 102   | 0.00     |
| 19 I    | Phenanthrene-d10           | 1.000 | 1.000 | 0.0   | 95    | -0.01    |
| 20      | 4,6-Dinitro-2-methylphenol | 0.042 | 0.016 | 61.9# | 60    | -0.01    |
| 21      | 4-Bromophenyl-phenylether  | 0.277 | 0.303 | -9.4  | 101   | -0.01    |
| 22      | Hexachlorobenzene          | 0.341 | 0.348 | -2.1  | 92    | 0.00     |
| 23      | Atrazine                   | 0.177 | 0.190 | -7.3  | 103   | -0.01    |
| 24      | Pentachlorophenol          | 0.093 | 0.104 | -11.8 | 116   | 0.00     |
| 25      | Phenanthrene               | 1.256 | 1.309 | -4.2  | 94    | 0.00     |
| 26      | Anthracene                 | 1.071 | 1.115 | -4.1  | 99    | 0.00     |
| 27 SURR | Fluoranthene-d10           | 0.868 | 0.924 | -6.5  | 98    | 0.00     |
| 28      | Fluoranthene               | 1.210 | 1.314 | -8.6  | 101   | 0.00     |
| 29 I    | Chrysene-d12               | 1.000 | 1.000 | 0.0   | 114   | 0.00     |
| 30      | Pyrene                     | 1.998 | 1.865 | 6.7   | 102   | 0.00     |
| 31 S    | Terphenyl-d14              | 0.924 | 0.862 | 6.7   | 102   | 0.00     |
| 32      | Benzo(a)anthracene         | 1.355 | 1.489 | -9.9  | 124   | 0.00     |
| 33      | Chrysene                   | 1.599 | 1.694 | -5.9  | 117   | 0.00     |
| 34      | Bis(2-ethylhexyl)phthalate | 0.742 | 0.893 | -20.4 | 127   | 0.00     |
| 35 I    | Perylene-d12               | 1.000 | 1.000 | 0.0   | 128   | 0.00     |
| 36      | Indeno(1,2,3-cd)pyrene     | 1.851 | 1.971 | -6.5  | 134   | -0.01    |
| 37      | Benzo(b)fluoranthene       | 1.642 | 1.660 | -1.1  | 124   | 0.00     |
| 38      | Benzo(k)fluoranthene       | 1.707 | 1.648 | 3.5   | 120   | 0.00     |
| 39 C    | Benzo(a)pyrene             | 1.376 | 1.439 | -4.6  | 133   | 0.00     |
| 40      | Dibenzo(a,h)anthracene     | 1.401 | 1.519 | -8.4  | 141   | -0.01    |
| 41      | Benzo(g,h,i)perylene       | 1.674 | 1.713 | -2.3  | 127   | 0.00     |

(#) = Out of Range

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

Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN120125\  
 Data File : BN038248.D  
 Acq On : 02 Dec 2025 04:44  
 Operator : RC/JU  
 Sample : SSTDCCC0.4  
 Misc :  
 ALS Vial : 20 Sample Multiplier: 1

Instrument :  
 BNA\_N  
 LabSampleId :  
 SSTDCCC0.4

Quant Time: Dec 02 05:08:32 2025  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\8270-SIM-BN112725.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Fri Nov 28 21:04:10 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   | 137   | 0.00     |
| 2       | 1,4-Dioxane                | 0.400  | 0.395 | 1.3   | 127   | 0.00     |
| 3       | n-Nitrosodimethylamine     | 0.400  | 0.421 | -5.2  | 138   | 0.00     |
| 4 S     | 2-Fluorophenol             | 0.400  | 0.436 | -9.0  | 141   | 0.00     |
| 5 S     | Phenol-d6                  | 0.400  | 0.442 | -10.5 | 146   | 0.00     |
| 6       | bis(2-Chloroethyl)ether    | 0.400  | 0.431 | -7.7  | 139   | 0.00     |
| 7 I     | Naphthalene-d8             | 0.400  | 0.400 | 0.0   | 132   | -0.01    |
| 8 S     | Nitrobenzene-d5            | 0.400  | 0.404 | -1.0  | 137   | 0.00     |
| 9       | Naphthalene                | 0.400  | 0.419 | -4.7  | 133   | 0.00     |
| 10      | Hexachlorobutadiene        | 0.400  | 0.434 | -8.5  | 135   | 0.00     |
| 11 SURR | 2-Methylnaphthalene-d10    | 0.400  | 0.396 | 1.0   | 126   | 0.00     |
| 12      | 2-Methylnaphthalene        | 0.400  | 0.399 | 0.3   | 127   | 0.00     |
| 13 I    | Acenaphthene-d10           | 0.400  | 0.400 | 0.0   | 108   | -0.01    |
| 14 S    | 2,4,6-Tribromophenol       | 0.400  | 0.412 | -3.0  | 113   | -0.01    |
| 15 S    | 2-Fluorobiphenyl           | 0.400  | 0.430 | -7.5  | 113   | -0.01    |
| 16      | Acenaphthylene             | 0.400  | 0.419 | -4.7  | 112   | 0.00     |
| 17      | Acenaphthene               | 0.400  | 0.408 | -2.0  | 106   | -0.01    |
| 18      | Fluorene                   | 0.400  | 0.388 | 3.0   | 102   | 0.00     |
| 19 I    | Phenanthrene-d10           | 0.400  | 0.400 | 0.0   | 95    | -0.01    |
| 20      | 4,6-Dinitro-2-methylphenol | 0.400  | 0.325 | 18.8  | 60    | -0.01    |
| 21      | 4-Bromophenyl-phenylether  | 0.400  | 0.438 | -9.5  | 101   | -0.01    |
| 22      | Hexachlorobenzene          | 0.400  | 0.409 | -2.2  | 92    | 0.00     |
| 23      | Atrazine                   | 0.400  | 0.429 | -7.2  | 103   | -0.01    |
| 24      | Pentachlorophenol          | 0.400  | 0.443 | -10.7 | 116   | 0.00     |
| 25      | Phenanthrene               | 0.400  | 0.417 | -4.2  | 94    | 0.00     |
| 26      | Anthracene                 | 0.400  | 0.416 | -4.0  | 99    | 0.00     |
| 27 SURR | Fluoranthene-d10           | 0.400  | 0.426 | -6.5  | 98    | 0.00     |
| 28      | Fluoranthene               | 0.400  | 0.434 | -8.5  | 101   | 0.00     |
| 29 I    | Chrysene-d12               | 0.400  | 0.400 | 0.0   | 114   | 0.00     |
| 30      | Pyrene                     | 0.400  | 0.373 | 6.8   | 102   | 0.00     |
| 31 S    | Terphenyl-d14              | 0.400  | 0.373 | 6.8   | 102   | 0.00     |
| 32      | Benzo(a)anthracene         | 0.400  | 0.440 | -10.0 | 124   | 0.00     |
| 33      | Chrysene                   | 0.400  | 0.424 | -6.0  | 117   | 0.00     |
| 34      | Bis(2-ethylhexyl)phthalate | 0.400  | 0.481 | -20.2 | 127   | 0.00     |
| 35 I    | Perylene-d12               | 0.400  | 0.400 | 0.0   | 128   | 0.00     |
| 36      | Indeno(1,2,3-cd)pyrene     | 0.400  | 0.426 | -6.5  | 134   | -0.01    |
| 37      | Benzo(b)fluoranthene       | 0.400  | 0.404 | -1.0  | 124   | 0.00     |
| 38      | Benzo(k)fluoranthene       | 0.400  | 0.386 | 3.5   | 120   | 0.00     |
| 39 C    | Benzo(a)pyrene             | 0.400  | 0.418 | -4.5  | 133   | 0.00     |
| 40      | Dibenzo(a,h)anthracene     | 0.400  | 0.434 | -8.5  | 141   | -0.01    |
| 41      | Benzo(g,h,i)perylene       | 0.400  | 0.409 | -2.2  | 127   | 0.00     |

(#) = Out of Range

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



# QC SAMPLE DATA

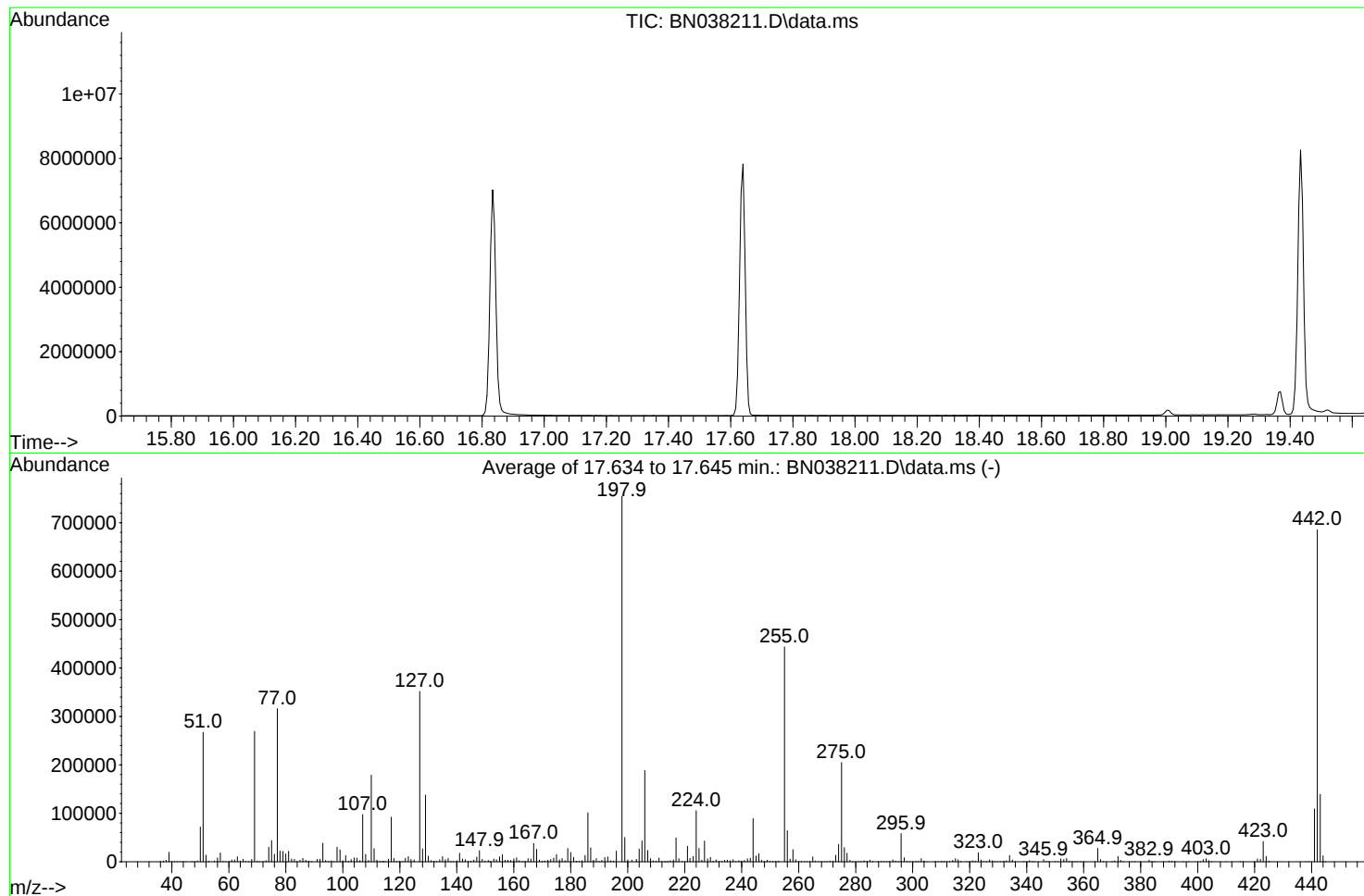
- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14
- 15
- 16
- 17
- 18

Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN112725\  
Data File : BN038211.D  
Acq On : 26 Nov 2025 19:55  
Operator : RC/JU  
Sample : DFTPP  
Misc :  
ALS Vial : 11 Sample Multiplier: 1

Instrument :  
BNA\_N  
ClientSampleId :  
DFTPP

Integration File: rteint.p

Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\8270-SIM-BN112725.M  
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
Last Update : Fri Nov 28 21:04:10 2025



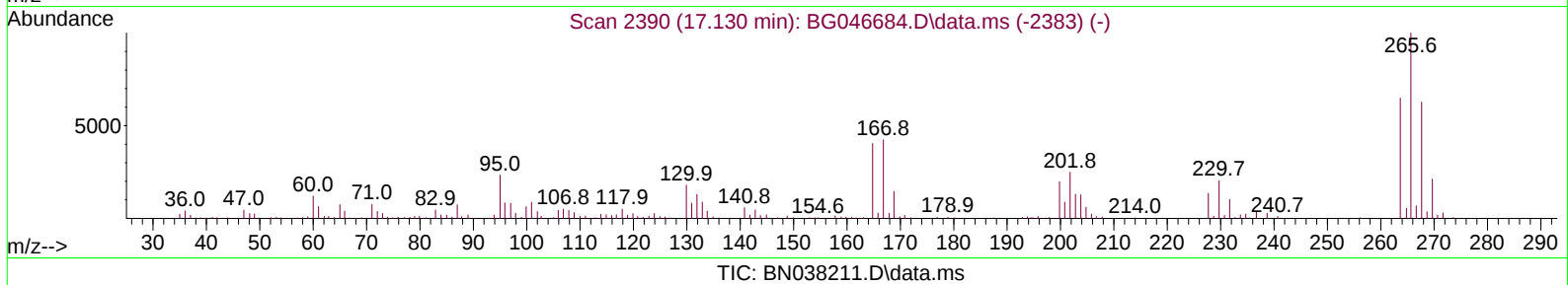
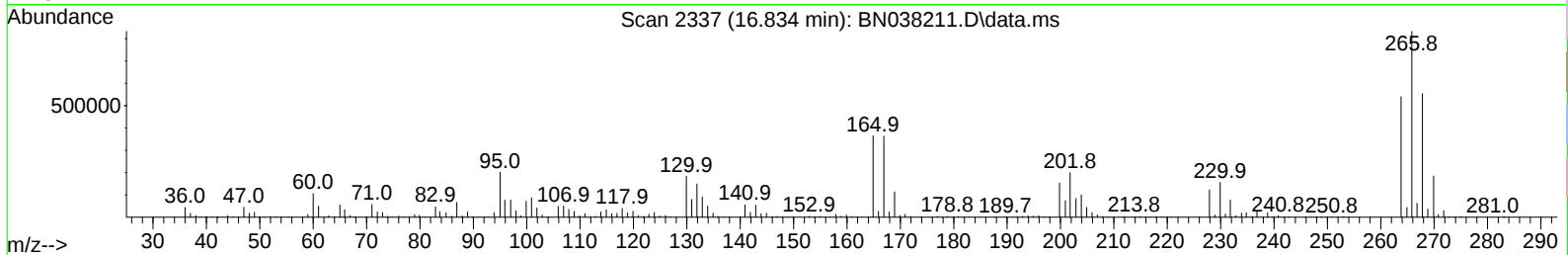
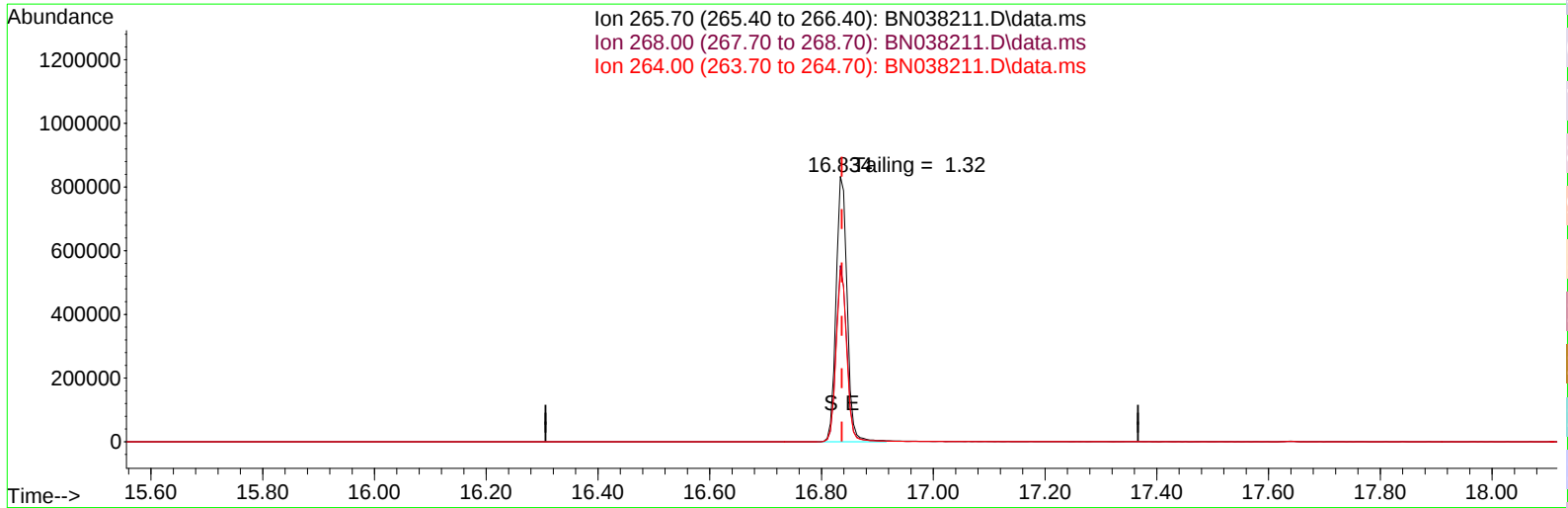
AutoFind: Scans 2473, 2474, 2475; Background Corrected with Scan 2465

| Target | Rel. to | Lower  | Upper  | Rel.  | Raw    | Result    |
|--------|---------|--------|--------|-------|--------|-----------|
| Mass   | Mass    | Limit% | Limit% | Abn%  | Abn    | Pass/Fail |
| 68     | 69      | 0.00   | 2      | 1.8   | 4865   | PASS      |
| 69     | 69      | 100    | 100    | 100.0 | 269184 | PASS      |
| 70     | 69      | 0.00   | 2      | 0.5   | 1321   | PASS      |
| 197    | 198     | 0.00   | 2      | 0.0   | 0      | PASS      |
| 198    | 198     | 100    | 100    | 100.0 | 754667 | PASS      |
| 199    | 198     | 5      | 9      | 6.6   | 49939  | PASS      |
| 365    | 198     | 1      | 100    | 3.6   | 27373  | PASS      |
| 441    | 443     | 0.01   | 150    | 78.5  | 109085 | PASS      |
| 442    | 442     | 100    | 100    | 100.0 | 685653 | PASS      |
| 443    | 442     | 15     | 24     | 20.3  | 139035 | PASS      |

Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN112725\  
Data File : BN038211.D  
Acq On : 26 Nov 2025 19:55  
Operator : RC/JU  
Sample : DFTPP  
Misc :  
ALS Vial : 11 Sample Multiplier: 1

Instrument :  
BNA\_N  
ClientSampleId :  
DFTPP

Quant Time: Dec 01 17:45:56 2025  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\8270E-Tune.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Mon Dec 01 10:15:10 2025  
Response via : Initial Calibration



TIC: BN038211.D\data.ms

**(70) Pentachlorophenol (C)**

16.834min (-0.002) 31780.36 ng

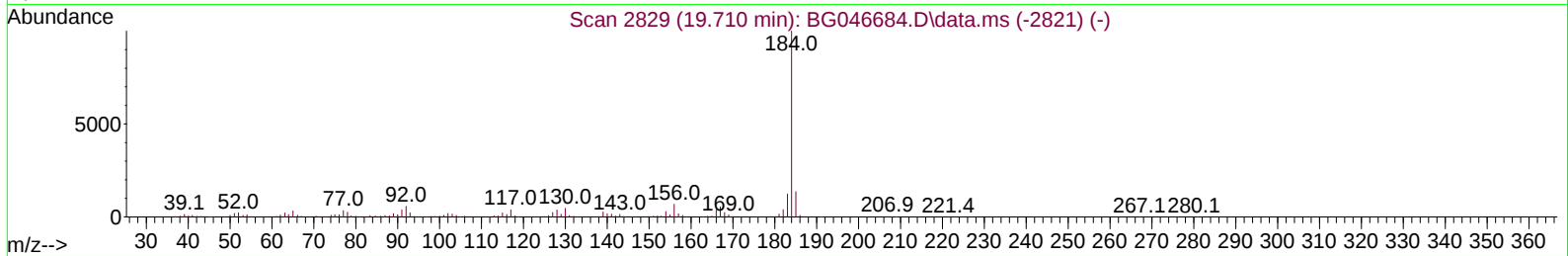
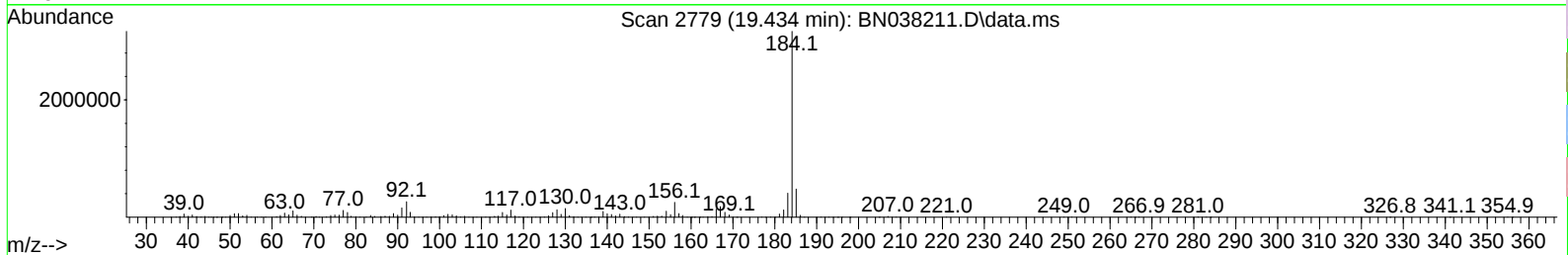
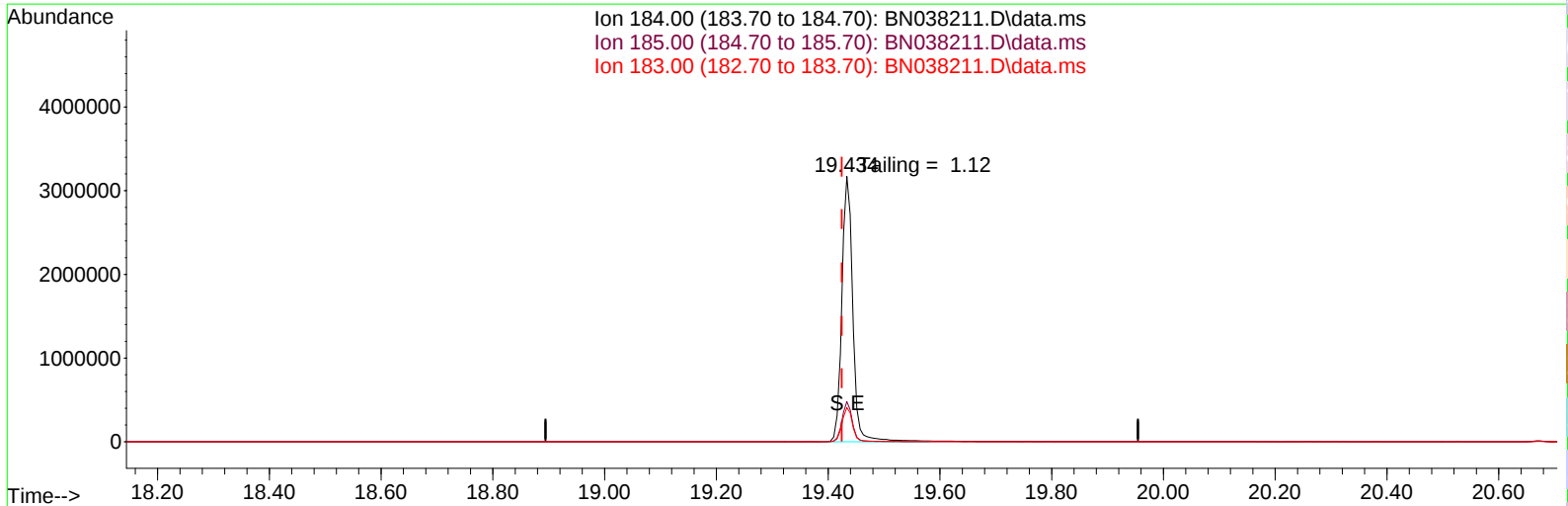
response 1154991

| Ion    | Exp%   | Act%   |
|--------|--------|--------|
| 265.70 | 100.00 | 100.00 |
| 268.00 | 62.20  | 66.41  |
| 264.00 | 61.60  | 64.81  |
| 0.00   | 0.00   | 0.00   |

Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN112725\  
Data File : BN038211.D  
Acq On : 26 Nov 2025 19:55  
Operator : RC/JU  
Sample : DFTPP  
Misc :  
ALS Vial : 11 Sample Multiplier: 1

Instrument :  
BNA\_N  
ClientSampleId :  
DFTPP

Quant Time: Dec 01 17:45:56 2025  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\8270E-Tune.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Mon Dec 01 10:15:10 2025  
Response via : Initial Calibration



TIC: BN038211.D\data.ms

**(77) Benzidine****19.434min (+ 0.009) 0.00 ng****response 4344162**

| Ion    | Exp%   | Act%   |
|--------|--------|--------|
| 184.00 | 100.00 | 100.00 |
| 185.00 | 15.50  | 15.12  |
| 183.00 | 13.20  | 12.88  |
| 0.00   | 0.00   | 0.00   |

Instrument :  
BNA\_N  
ClientSampleId :  
DFTPP

DDT Breakdown

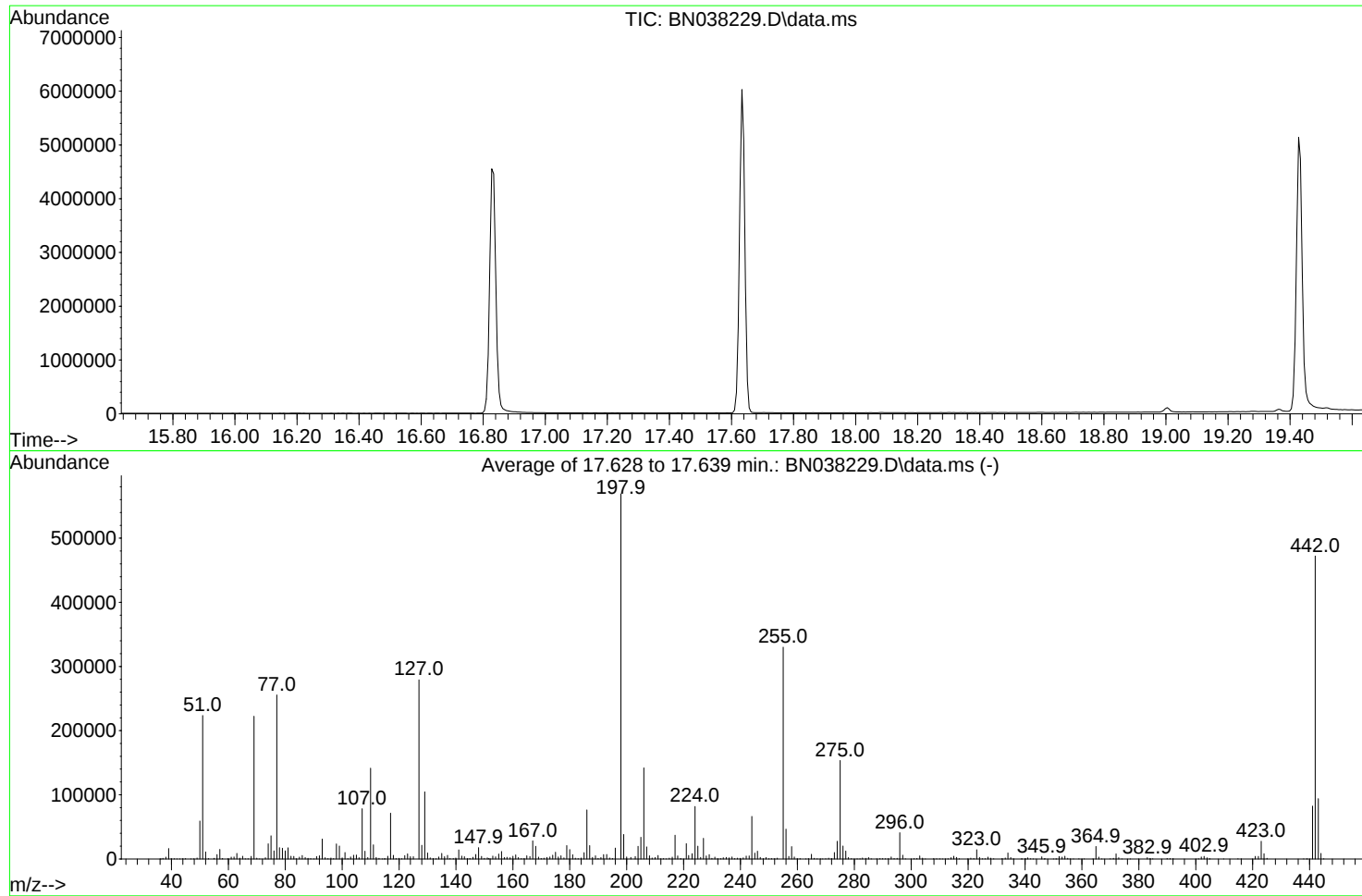
| Date          | Instrument Name  | DFTPP Data File    |
|---------------|------------------|--------------------|
| 11/27/2025    | BNA_N            | <u>BN038211.D</u>  |
|               |                  |                    |
|               |                  |                    |
| Compound Name | Response         | Retention Time     |
|               |                  |                    |
| DDT           | 2721200          | 20.675             |
| DDD           | 25337            | 20.233             |
| DDE           | 5413             | 19.728             |
|               |                  |                    |
|               |                  |                    |
| SUM(DDD+DDE)  | SUM(DDT+DDD+DDE) | % Breakdown Of DDT |
|               |                  |                    |
| 30750         | 2751950          | 1.12               |
|               |                  |                    |

Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN120125\  
Data File : BN038229.D  
Acq On : 01 Dec 2025 17:11  
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-BN112725.M  
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
Last Update : Fri Nov 28 21:04:10 2025



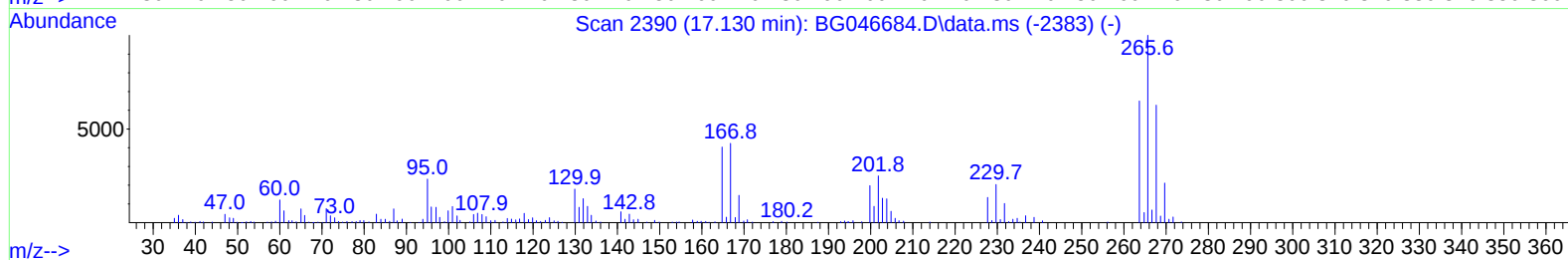
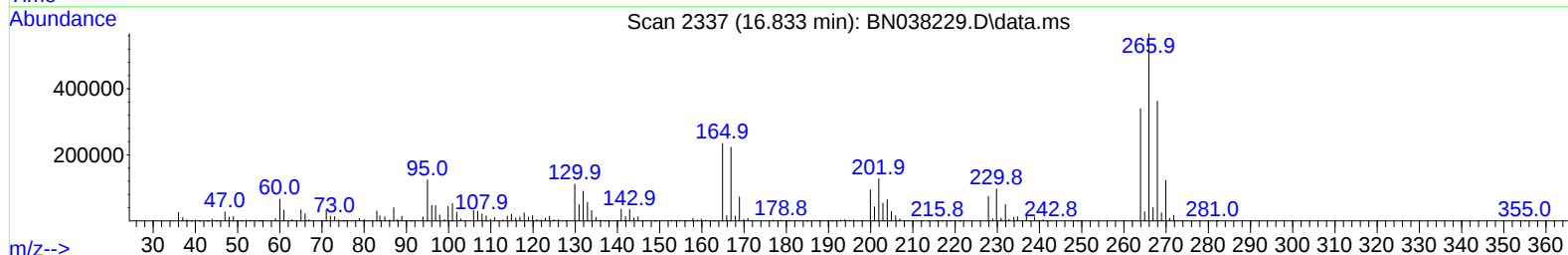
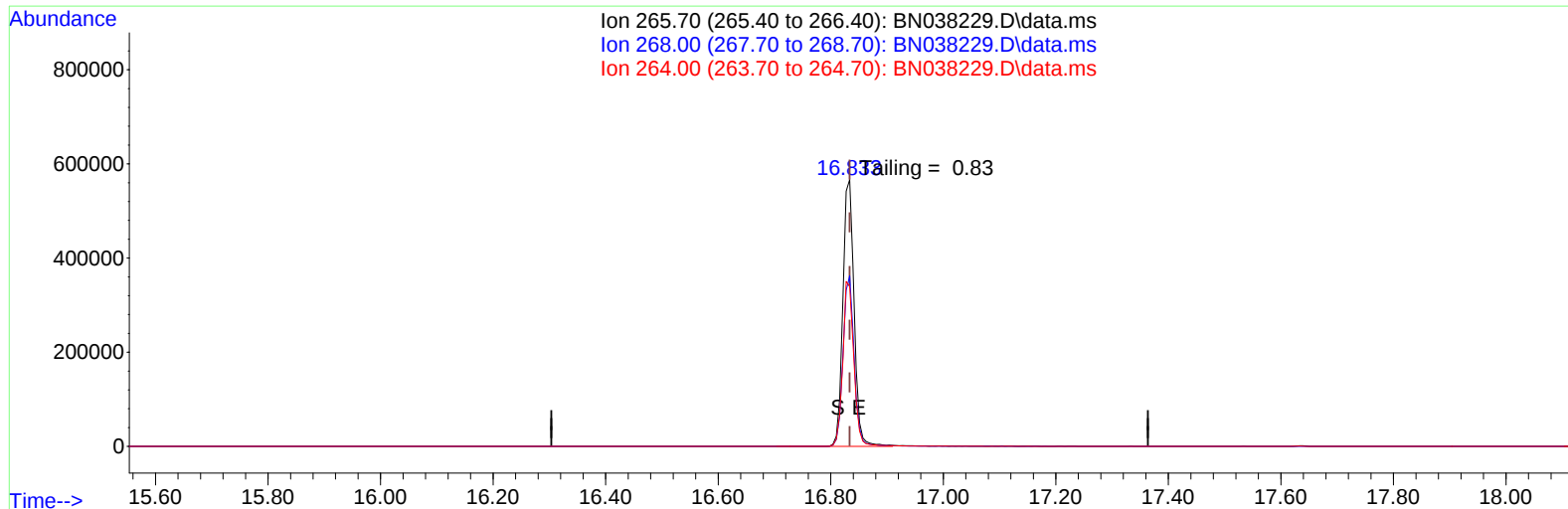
AutoFind: Scans 2472, 2473, 2474; Background Corrected with Scan 2465

| Target | Rel. to | Lower  | Upper  | Rel.  | Raw    | Result    |
|--------|---------|--------|--------|-------|--------|-----------|
| Mass   | Mass    | Limit% | Limit% | Abn%  | Abn    | Pass/Fail |
| 68     | 69      | 0.00   | 2      | 1.8   | 3958   | PASS      |
| 69     | 69      | 100    | 100    | 100.0 | 222464 | PASS      |
| 70     | 69      | 0.00   | 2      | 0.5   | 1221   | PASS      |
| 197    | 198     | 0.00   | 2      | 0.0   | 0      | PASS      |
| 198    | 198     | 100    | 100    | 100.0 | 569067 | PASS      |
| 199    | 198     | 5      | 9      | 6.7   | 38248  | PASS      |
| 365    | 198     | 1      | 100    | 3.4   | 19427  | PASS      |
| 441    | 443     | 0.01   | 150    | 87.9  | 82573  | PASS      |
| 442    | 442     | 100    | 100    | 100.0 | 472256 | PASS      |
| 443    | 442     | 15     | 24     | 19.9  | 93936  | PASS      |

Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN120125\  
Data File : BN038229.D  
Acq On : 01 Dec 2025 17:11  
Operator : RC/JU  
Sample : DFTPP  
Misc :  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
BNA\_N  
ClientSampleId :  
DFTPP

Quant Time: Dec 01 17:45:52 2025  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\8270E-Tune.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Mon Dec 01 17:45:43 2025  
Response via : Initial Calibration



TIC: BN038229.D\data.ms

**(70) Pentachlorophenol (C)**

16.833min ( 0.000) 277.76 ng

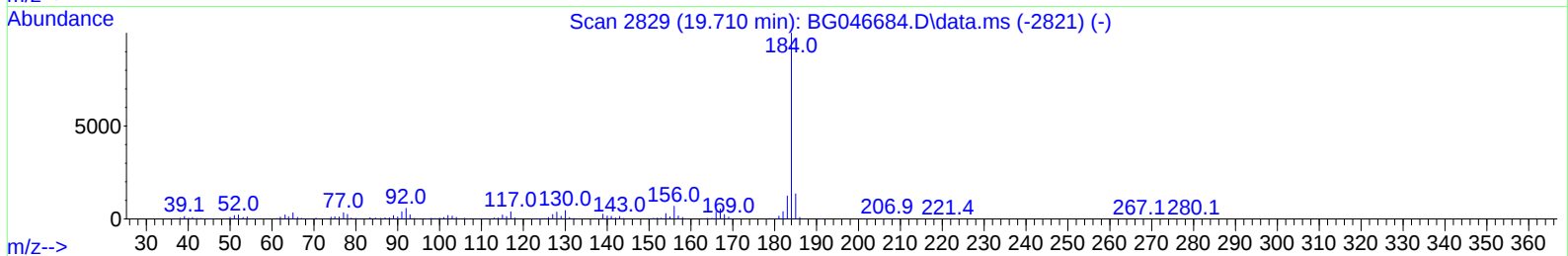
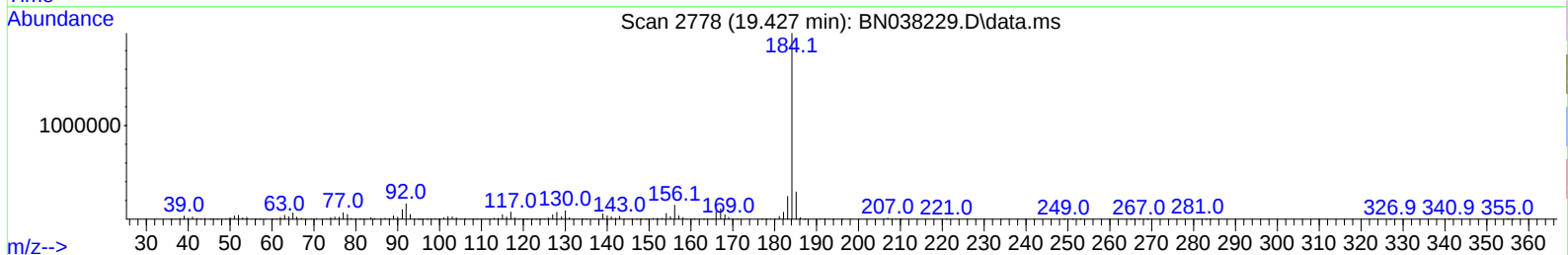
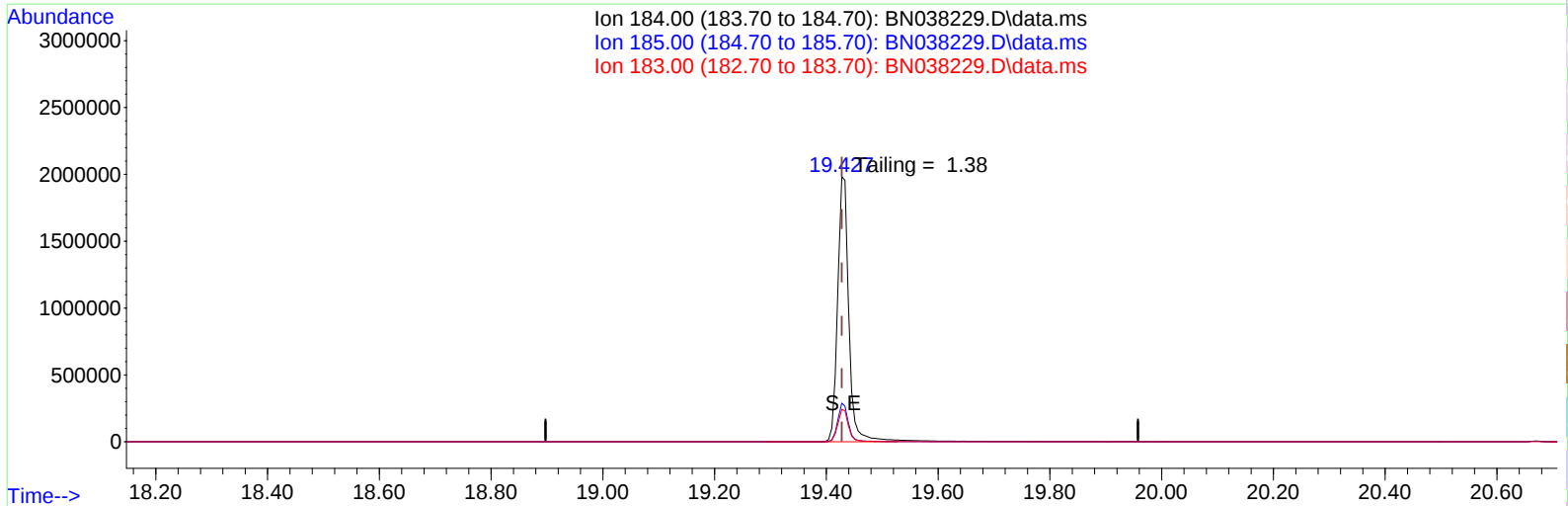
response 785850

| Ion    | Exp%   | Act%   |
|--------|--------|--------|
| 265.70 | 100.00 | 100.00 |
| 268.00 | 62.20  | 63.93  |
| 264.00 | 61.60  | 59.91  |
| 0.00   | 0.00   | 0.00   |

Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN120125\  
Data File : BN038229.D  
Acq On : 01 Dec 2025 17:11  
Operator : RC/JU  
Sample : DFTPP  
Misc :  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
BNA\_N  
ClientSampleId :  
DFTPP

Quant Time: Dec 01 17:45:52 2025  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\8270E-Tune.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Mon Dec 01 17:45:43 2025  
Response via : Initial Calibration



TIC: BN038229.D\data.ms

**(77) Benzidine**

19.427min ( 0.000) 0.00 ng

response 2797498

| Ion    | Exp%   | Act%   |
|--------|--------|--------|
| 184.00 | 100.00 | 100.00 |
| 185.00 | 15.50  | 14.63  |
| 183.00 | 13.20  | 12.24  |
| 0.00   | 0.00   | 0.00   |

Instrument :  
BNA\_N  
ClientSampleId :  
DFTPP

DDT Breakdown

| Date          | Instrument Name  | DFTPP Data File    |
|---------------|------------------|--------------------|
| 12/1/2025     | BNA_N            | <u>BN038229.D</u>  |
|               |                  |                    |
|               |                  |                    |
| Compound Name | Response         | Retention Time     |
|               |                  |                    |
| DDT           | 1521305          | 20.679             |
| DDD           | 52158            | 20.227             |
| DDE           | 1105             | 19.722             |
|               |                  |                    |
|               |                  |                    |
| SUM(DDD+DDE)  | SUM(DDT+DDD+DDE) | % Breakdown Of DDT |
|               |                  |                    |
| 53263         | 1574568          | 3.38               |
|               |                  |                    |



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

## Report of Analysis

|                    |                               |                     |                 |                |
|--------------------|-------------------------------|---------------------|-----------------|----------------|
| Client:            | Tetra Tech NUS, Inc.          |                     | Date Collected: |                |
| Project:           | NWIRP Bethpage 112G08005-WE13 |                     | Date Received:  |                |
| Client Sample ID:  | PB170712BL                    |                     | SDG No.:        | Q3691          |
| Lab Sample ID:     | PB170712BL                    |                     | Matrix:         | Water          |
| Analytical Method: | SW8270ESIM                    | Level: LOW          | % Solid:        | 0              |
| Sample Wt/Vol:     | 1000 mL                       | Final Vol: 1000 uL  | Test:           | SVOC-SIMGroup1 |
| Prep Method :      | 3510C                         | Prep Date: 11/21/25 |                 |                |

| CAS Number                | Parameter               | Conc.             | Qua. | DF | MDL      | LOD  | LOQ / CRQL | Units    | Date Ana.      | Prep BatchID |
|---------------------------|-------------------------|-------------------|------|----|----------|------|------------|----------|----------------|--------------|
| <b>TARGETS</b>            |                         |                   |      |    |          |      |            |          |                |              |
| 123-91-1                  | 1,4-Dioxane             | 0.20              | U    | 1  | 0.070    | 0.20 | 0.20       | ug/L     | 12/01/25 18:28 | PB170712     |
| <b>SURROGATES</b>         |                         |                   |      |    |          |      |            |          |                |              |
| 7297-45-2                 | 2-Methylnaphthalene-d10 | 0.32              |      |    | 30 - 150 |      | 79%        | SPK: 0.4 |                |              |
| 93951-69-0                | Fluoranthene-d10        | 0.36              |      |    | 30 - 150 |      | 91%        | SPK: 0.4 |                |              |
| 4165-60-0                 | Nitrobenzene-d5         | 0.36              |      |    | 55 - 111 |      | 90%        | SPK: 0.4 |                |              |
| 321-60-8                  | 2-Fluorobiphenyl        | 0.39              |      |    | 53 - 106 |      | 98%        | SPK: 0.4 |                |              |
| 1718-51-0                 | Terphenyl-d14           | 0.35              |      |    | 58 - 132 |      | 88%        | SPK: 0.4 |                |              |
| <b>INTERNAL STANDARDS</b> |                         | <b>Area Count</b> |      |    |          |      |            |          |                |              |
| 3855-82-1                 | 1,4-Dichlorobenzene-d4  | 8260              |      |    |          |      |            |          |                |              |
| 1146-65-2                 | Naphthalene-d8          | 23000             |      |    |          |      |            |          |                |              |
| 15067-26-2                | Acenaphthene-d10        | 10800             |      |    |          |      |            |          |                |              |
| 1517-22-2                 | Phenanthrene-d10        | 14900             |      |    |          |      |            |          |                |              |
| 1719-03-5                 | Chrysene-d12            | 10500             |      |    |          |      |            |          |                |              |
| 1520-96-3                 | Perylene-d12            | 10900             |      |    |          |      |            |          |                |              |

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\BN120125\  
Data File : BN038231.D  
Acq On : 01 Dec 2025 18:28  
Operator : RC/JU  
Sample : PB170712BL  
Misc :  
ALS Vial : 3 Sample Multiplier: 1

Instrument :  
BNA\_N  
ClientSampleId :  
PB170712BL

Quant Time: Dec 02 01:08:26 2025  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\8270-SIM-BN112725.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Fri Nov 28 21:04:10 2025  
Response via : Initial Calibration

| Compound                    | R.T.   | QIon | Response | Conc  | Units | Dev(Min) |
|-----------------------------|--------|------|----------|-------|-------|----------|
| Internal Standards          |        |      |          |       |       |          |
| 1) 1,4-Dichlorobenzene-d4   | 7.768  | 152  | 8256     | 0.400 | ng    | 0.00     |
| 7) Naphthalene-d8           | 10.573 | 136  | 22952    | 0.400 | ng    | 0.00     |
| 13) Acenaphthene-d10        | 14.430 | 164  | 10779    | 0.400 | ng    | 0.00     |
| 19) Phenanthrene-d10        | 17.186 | 188  | 14873    | 0.400 | ng    | # 0.00   |
| 29) Chrysene-d12            | 21.375 | 240  | 10479    | 0.400 | ng    | 0.00     |
| 35) Perylene-d12            | 23.680 | 264  | 10853    | 0.400 | ng    | 0.00     |
| System Monitoring Compounds |        |      |          |       |       |          |
| 4) 2-Fluorophenol           | 5.341  | 112  | 6987     | 0.362 | ng    | 0.00     |
| 5) Phenol-d6                | 6.930  | 99   | 7715     | 0.320 | ng    | 0.00     |
| 8) Nitrobenzene-d5          | 8.918  | 82   | 6631     | 0.361 | ng    | 0.00     |
| 11) 2-Methylnaphthalene-d10 | 12.166 | 152  | 10344    | 0.317 | ng    | 0.00     |
| 14) 2,4,6-Tribromophenol    | 15.944 | 330  | 556      | 0.164 | ng    | 0.01     |
| 15) 2-Fluorobiphenyl        | 13.051 | 172  | 16277    | 0.391 | ng    | 0.00     |
| 27) Fluoranthene-d10        | 19.220 | 212  | 11729    | 0.364 | ng    | 0.00     |
| 31) Terphenyl-d14           | 19.819 | 244  | 8472     | 0.350 | ng    | 0.00     |

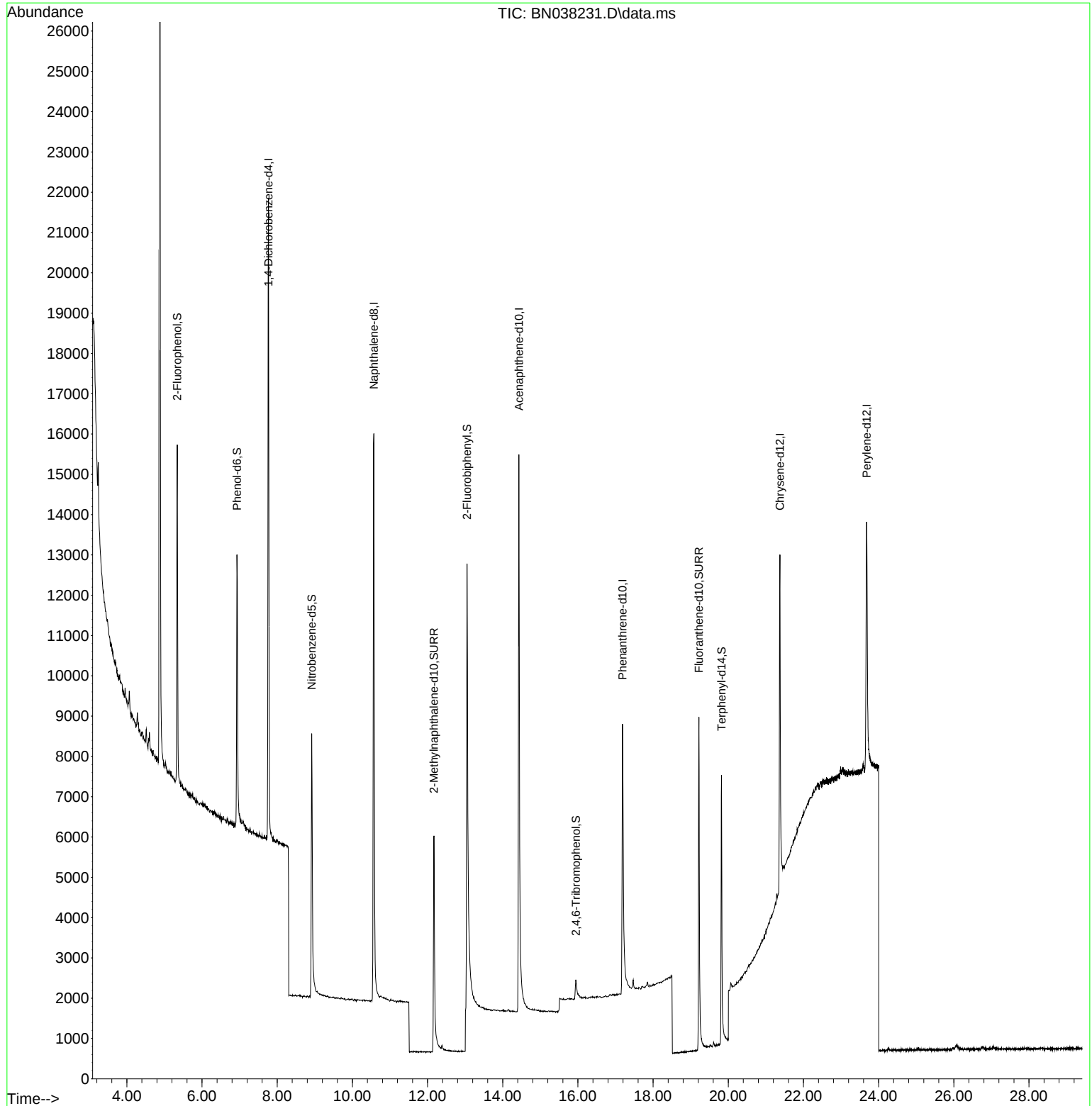
| Target Compounds | Qvalue |
|------------------|--------|
|------------------|--------|

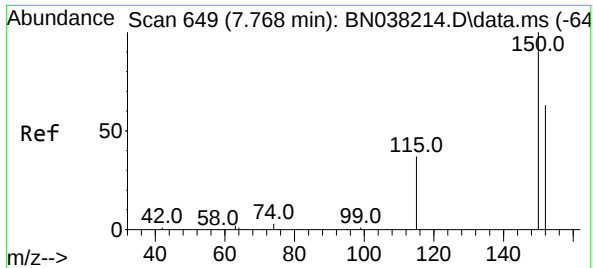
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN120125\  
Data File : BN038231.D  
Acq On : 01 Dec 2025 18:28  
Operator : RC/JU  
Sample : PB170712BL  
Misc :  
ALS Vial : 3 Sample Multiplier: 1

Instrument :  
BNA\_N  
ClientSampleId :  
PB170712BL

Quant Time: Dec 02 01:08:26 2025  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\8270-SIM-BN112725.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Fri Nov 28 21:04:10 2025  
Response via : Initial Calibration

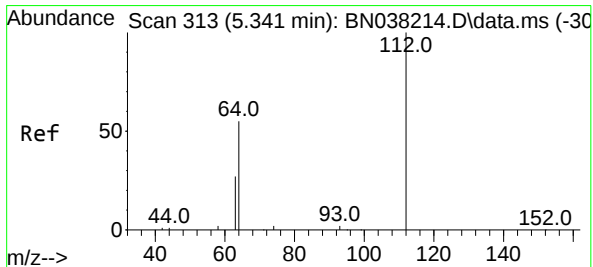
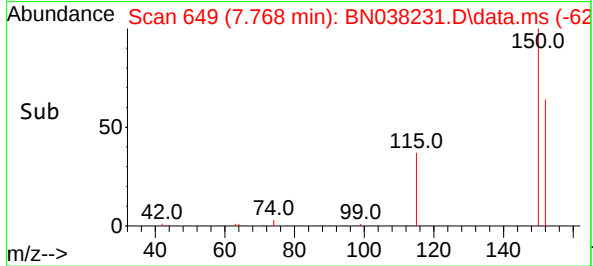
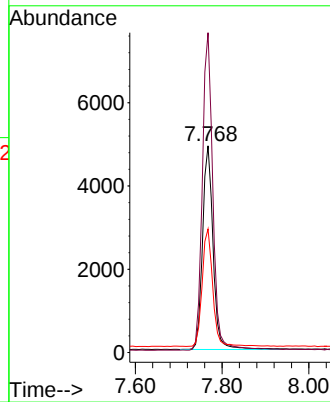
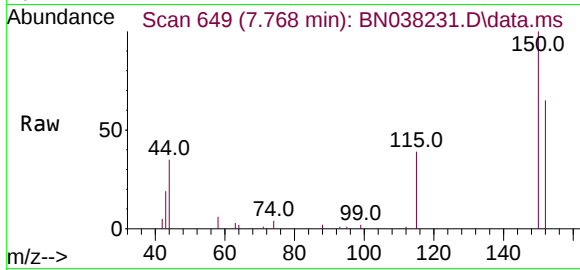




#1  
1,4-Dichlorobenzene-d4  
Concen: 0.400 ng  
RT: 7.768 min Scan# 649  
Delta R.T. -0.000 min  
Lab File: BN038231.D  
Acq: 01 Dec 2025 18:28

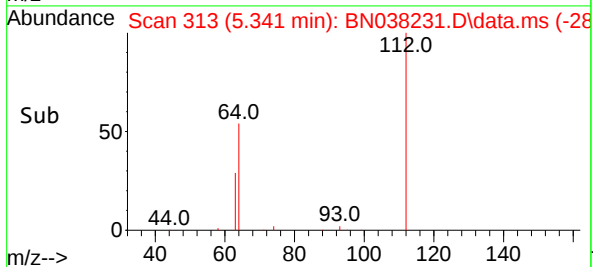
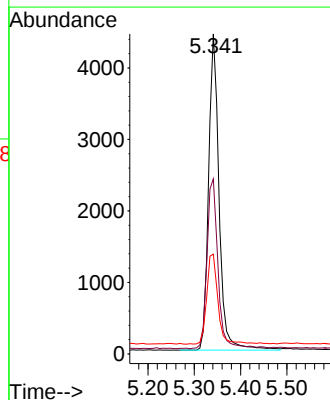
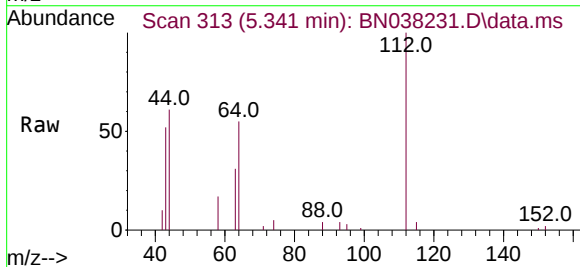
Instrument :  
BNA\_N  
ClientSampleId :  
PB170712BL

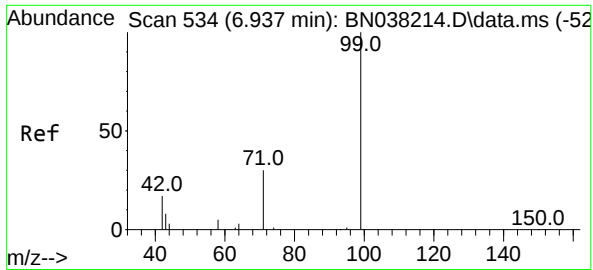
Tgt Ion:152 Resp: 8256  
Ion Ratio Lower Upper  
152 100  
150 154.8 125.3 187.9  
115 59.8 49.0 73.4



#4  
2-Fluorophenol  
Concen: 0.362 ng  
RT: 5.341 min Scan# 313  
Delta R.T. -0.000 min  
Lab File: BN038231.D  
Acq: 01 Dec 2025 18:28

Tgt Ion:112 Resp: 6987  
Ion Ratio Lower Upper  
112 100  
64 56.1 45.0 67.4  
63 30.5 23.2 34.8

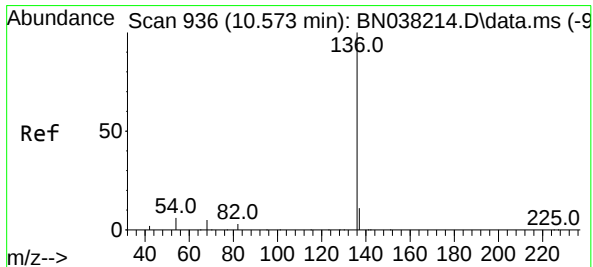
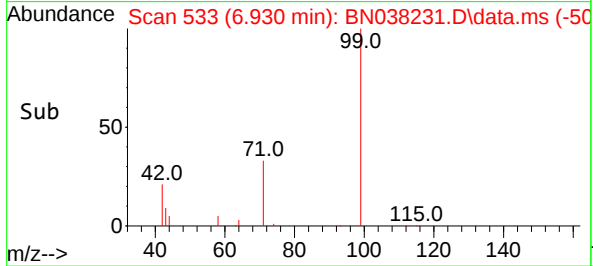
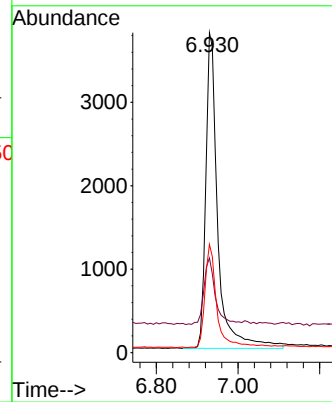
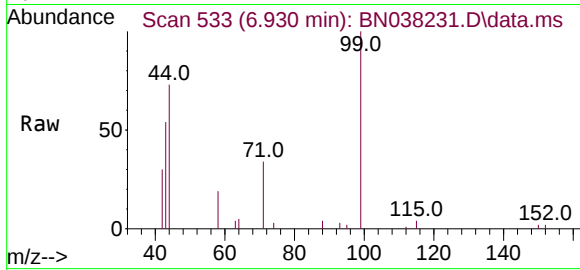




#5  
Phenol-d6  
Concen: 0.320 ng  
RT: 6.930 min Scan# 534  
Delta R.T. -0.007 min  
Lab File: BN038231.D  
Acq: 01 Dec 2025 18:28

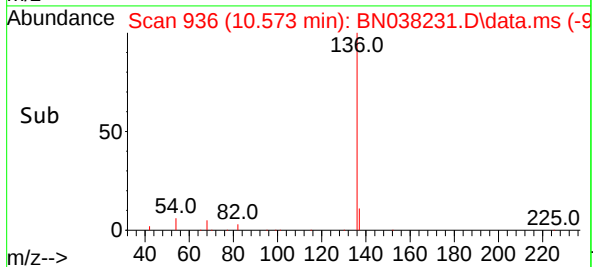
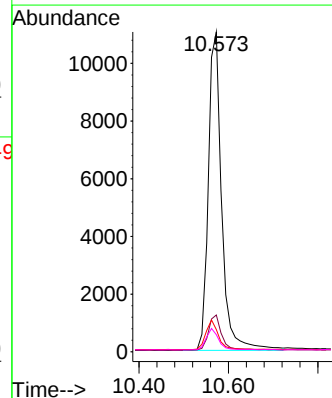
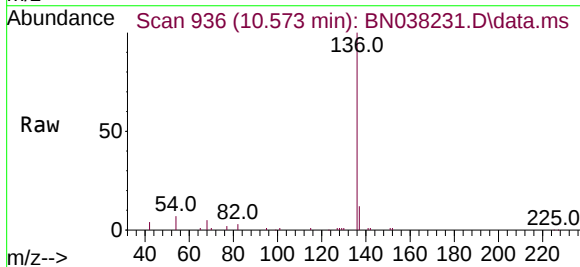
Instrument :  
BNA\_N  
ClientSampleId :  
PB170712BL

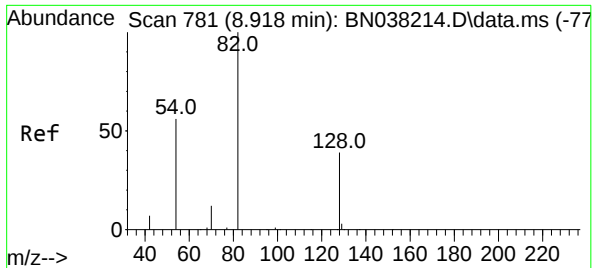
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 99    | Resp: | 7715  |
| Ion      | Ratio | Lower | Upper |
| 99       | 100   |       |       |
| 42       | 20.1  | 17.0  | 25.6  |
| 71       | 32.9  | 25.4  | 38.2  |



#7  
Naphthalene-d8  
Concen: 0.400 ng  
RT: 10.573 min Scan# 936  
Delta R.T. -0.000 min  
Lab File: BN038231.D  
Acq: 01 Dec 2025 18:28

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 136   | Resp: | 22952 |
| Ion      | Ratio | Lower | Upper |
| 136      | 100   |       |       |
| 137      | 11.5  | 8.9   | 13.3  |
| 54       | 7.0   | 5.4   | 8.0   |
| 68       | 5.4   | 4.1   | 6.1   |

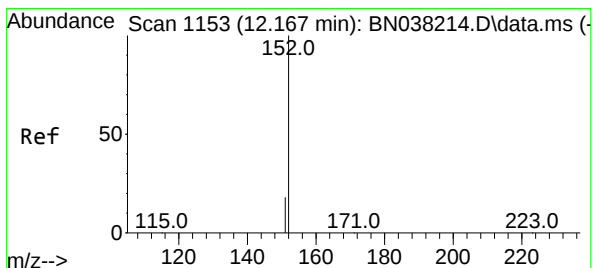
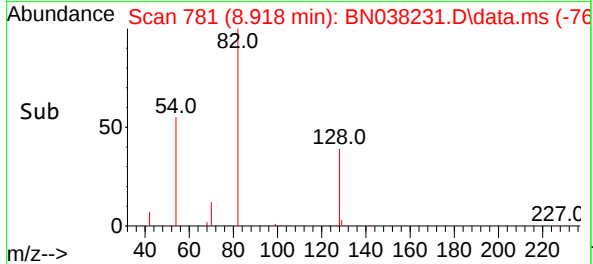
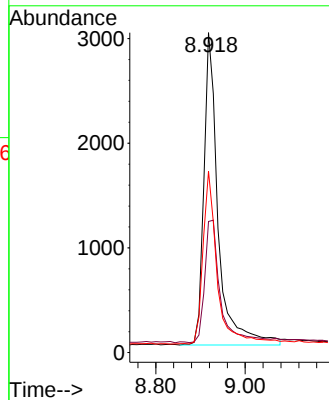
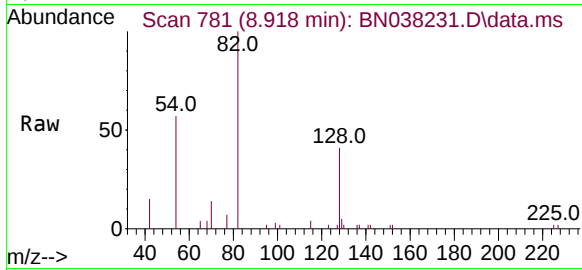




#8  
Nitrobenzene-d5  
Concen: 0.361 ng  
RT: 8.918 min Scan# 781  
Delta R.T. -0.000 min  
Lab File: BN038231.D  
Acq: 01 Dec 2025 18:28

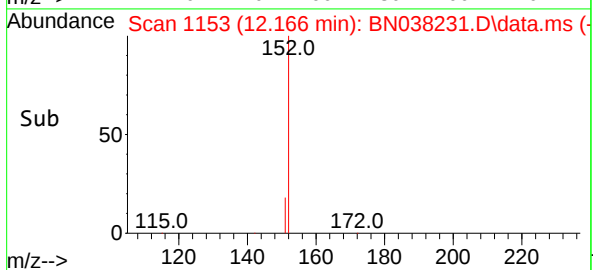
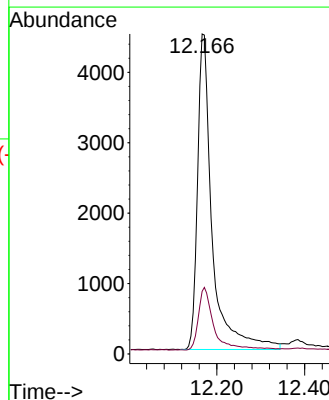
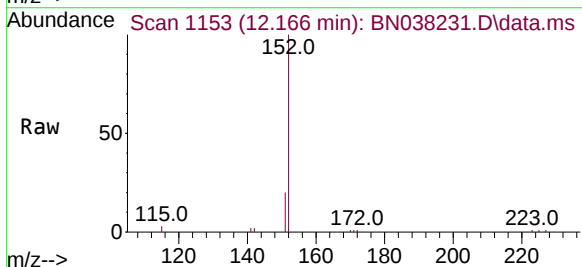
Instrument :  
BNA\_N  
ClientSampleId :  
PB170712BL

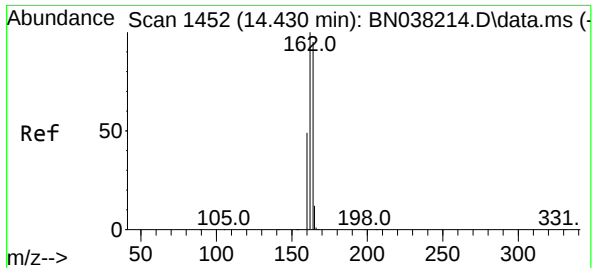
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 82    | Resp: | 6631  |
| Ion      | Ratio | Lower | Upper |
| 82       | 100   |       |       |
| 128      | 41.0  | 32.6  | 48.8  |
| 54       | 56.7  | 45.4  | 68.0  |



#11  
2-Methylnaphthalene-d10  
Concen: 0.317 ng  
RT: 12.166 min Scan# 1153  
Delta R.T. -0.000 min  
Lab File: BN038231.D  
Acq: 01 Dec 2025 18:28

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 152   | Resp: | 10344 |
| Ion      | Ratio | Lower | Upper |
| 152      | 100   |       |       |
| 151      | 20.5  | 16.7  | 25.1  |

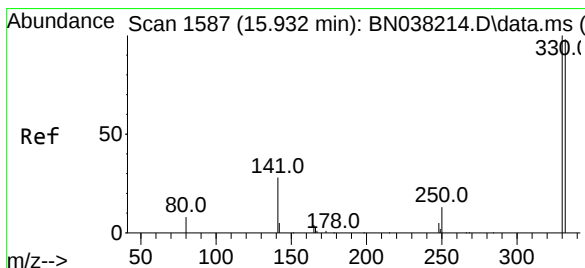
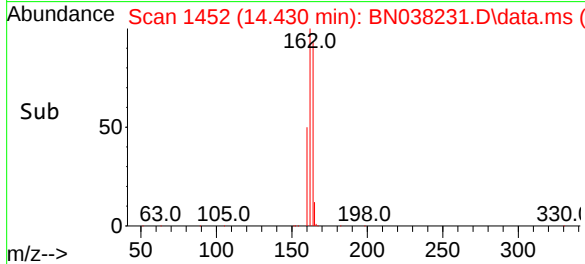
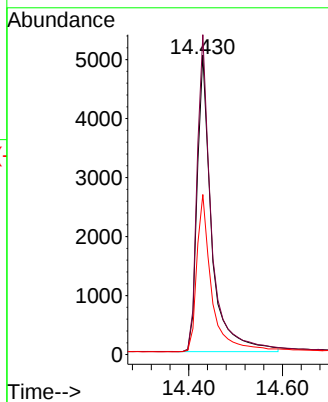
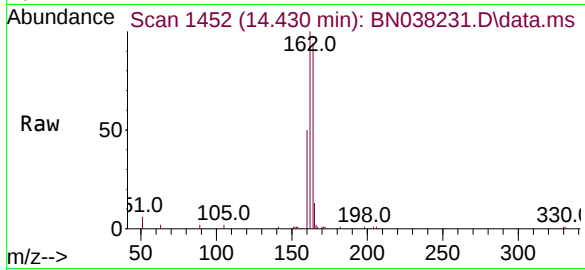




#13  
Acenaphthene-d10  
Concen: 0.400 ng  
RT: 14.430 min Scan# 1452  
Delta R.T. -0.000 min  
Lab File: BN038231.D  
Acq: 01 Dec 2025 18:28

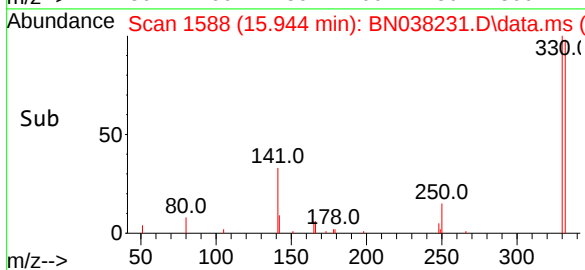
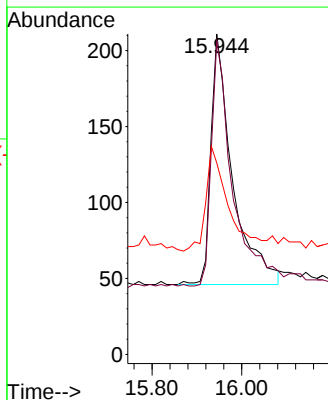
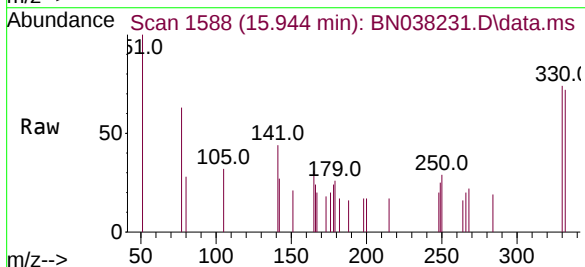
Instrument :  
BNA\_N  
ClientSampleId :  
PB170712BL

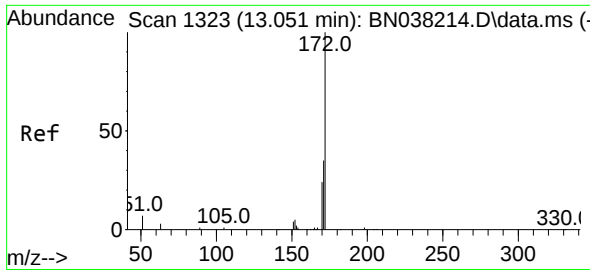
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 164     | 100   |       |       |
| 162     | 106.8 | 83.8  | 125.8 |
| 160     | 53.5  | 41.6  | 62.4  |



#14  
2,4,6-Tribromophenol  
Concen: 0.164 ng  
RT: 15.944 min Scan# 1588  
Delta R.T. 0.012 min  
Lab File: BN038231.D  
Acq: 01 Dec 2025 18:28

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 330     | 100   |       |       |
| 332     | 95.7  | 77.8  | 116.6 |
| 141     | 43.3  | 33.0  | 49.4  |

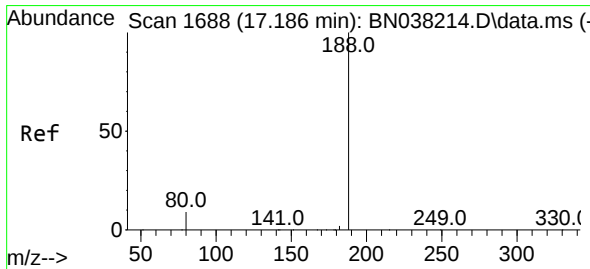
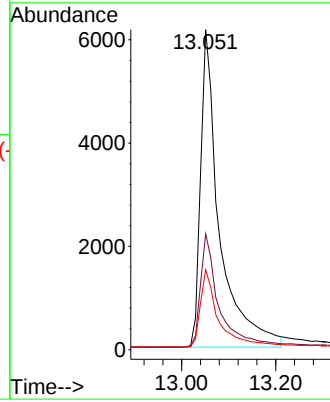
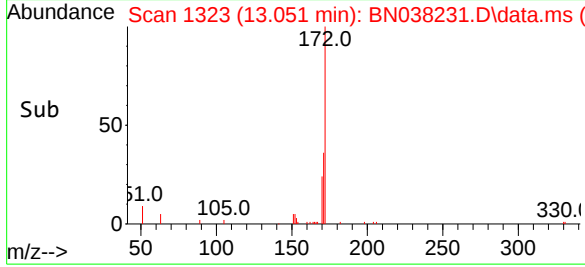
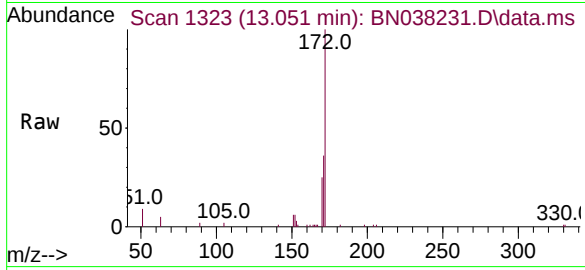




#15  
2-Fluorobiphenyl  
Concen: 0.391 ng  
RT: 13.051 min Scan# 1323  
Delta R.T. 0.000 min  
Lab File: BN038231.D  
Acq: 01 Dec 2025 18:28

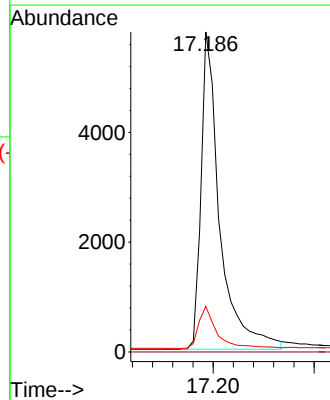
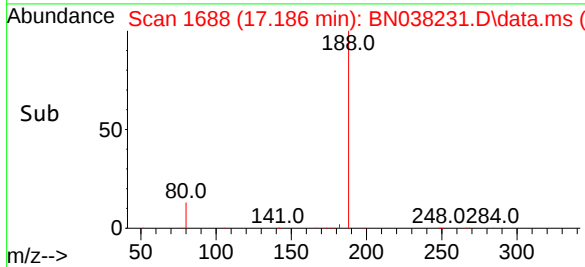
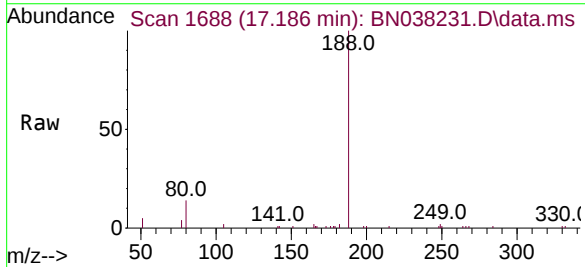
Instrument :  
BNA\_N  
ClientSampleId :  
PB170712BL

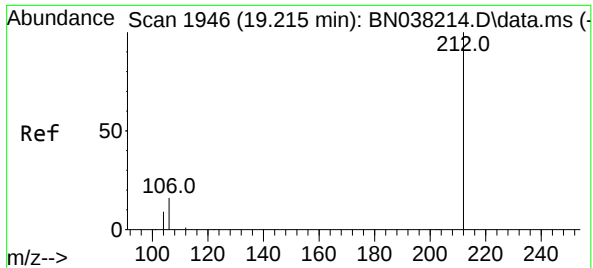
|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 172   | Resp: | 16277 |
| Ion Ratio | Lower | Upper |       |
| 172       | 100   |       |       |
| 171       | 36.2  | 28.1  | 42.1  |
| 170       | 25.0  | 19.1  | 28.7  |



#19  
Phenanthrene-d10  
Concen: 0.400 ng  
RT: 17.186 min Scan# 1688  
Delta R.T. -0.000 min  
Lab File: BN038231.D  
Acq: 01 Dec 2025 18:28

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 188   | Resp: | 14873 |
| Ion Ratio | Lower | Upper |       |
| 188       | 100   |       |       |
| 94        | 0.0   | 0.0   | 0.0   |
| 80        | 14.2  | 7.7   | 11.5  |

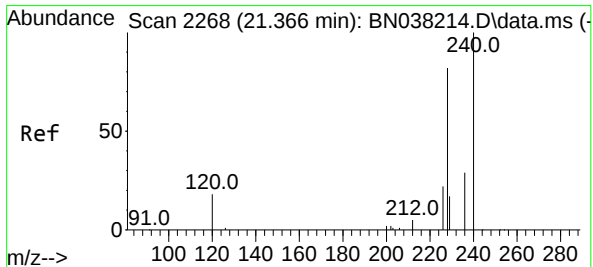
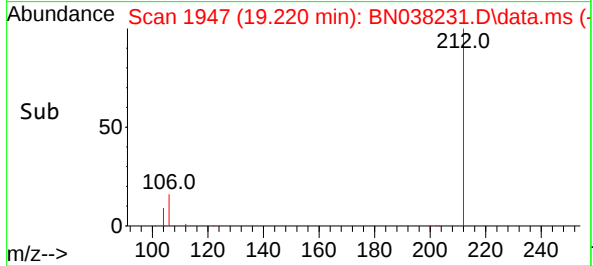
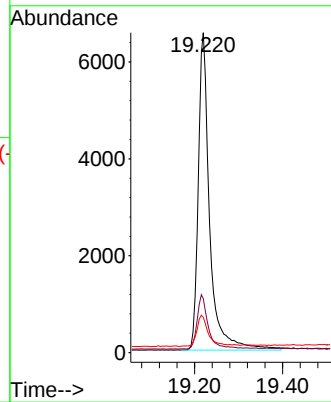
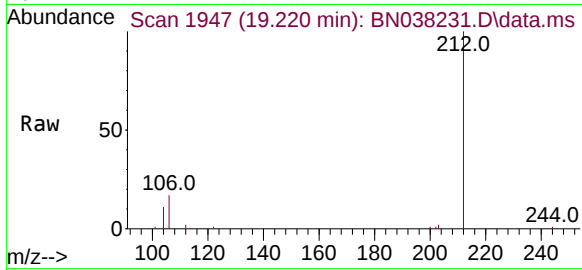




#27  
Fluoranthene-d10  
Concen: 0.364 ng  
RT: 19.220 min Scan# 1947  
Delta R.T. 0.005 min  
Lab File: BN038231.D  
Acq: 01 Dec 2025 18:28

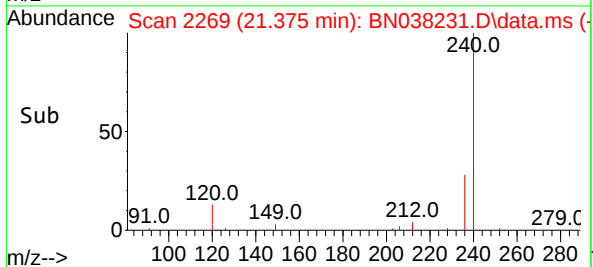
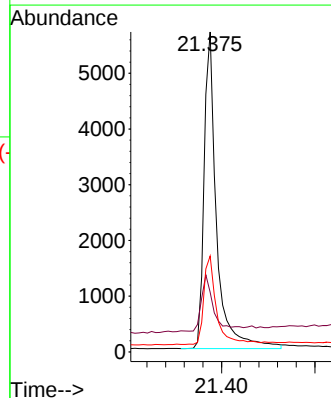
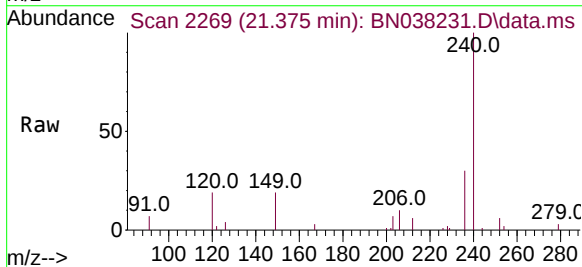
Instrument :  
BNA\_N  
ClientSampleId :  
PB170712BL

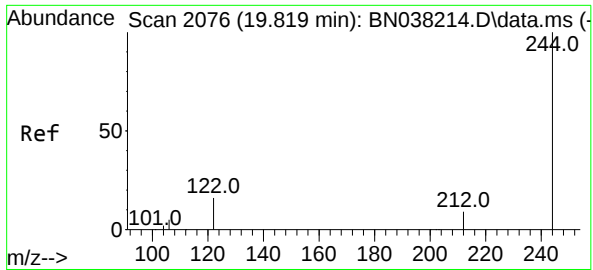
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 212     | 100   |       |       |
| 106     | 16.9  | 12.7  | 19.1  |
| 104     | 10.0  | 7.3   | 10.9  |



#29  
Chrysene-d12  
Concen: 0.400 ng  
RT: 21.375 min Scan# 2269  
Delta R.T. 0.009 min  
Lab File: BN038231.D  
Acq: 01 Dec 2025 18:28

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 240     | 100   |       |       |
| 120     | 18.6  | 18.1  | 27.1  |
| 236     | 30.0  | 24.2  | 36.4  |

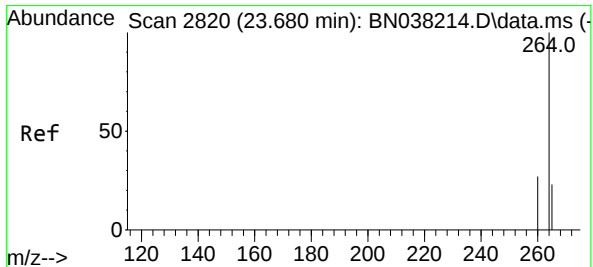
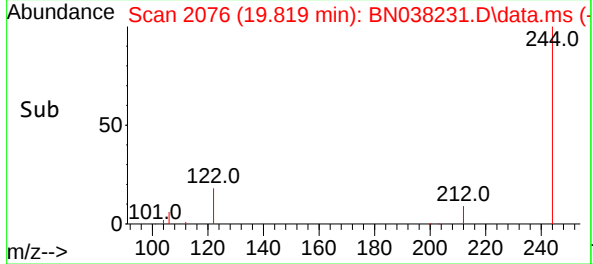
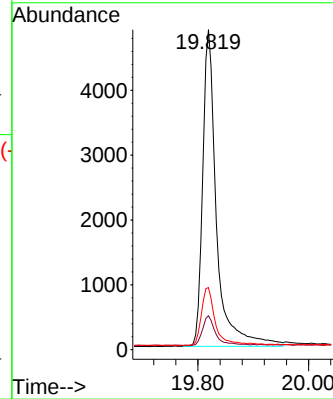
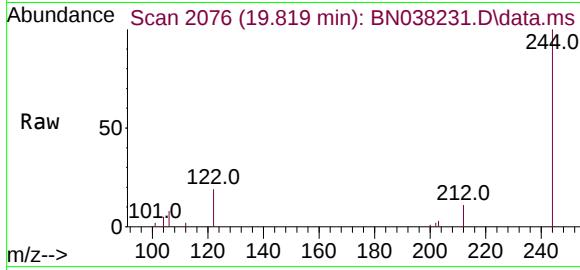




#31  
Terphenyl-d14  
Concen: 0.350 ng  
RT: 19.819 min Scan# 2076  
Delta R.T. -0.000 min  
Lab File: BN038231.D  
Acq: 01 Dec 2025 18:28

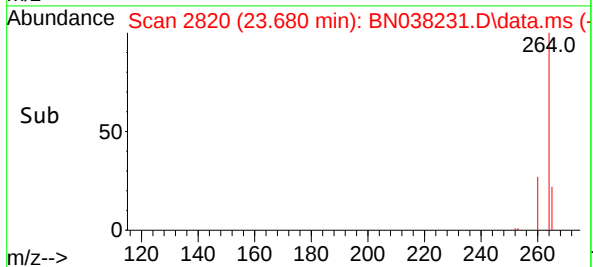
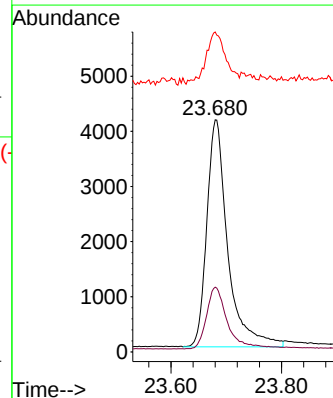
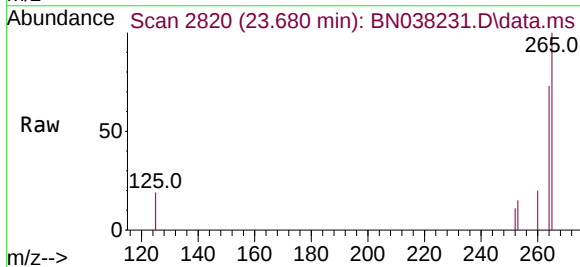
Instrument :  
BNA\_N  
ClientSampleId :  
PB170712BL

Tgt Ion:244 Resp: 8472  
Ion Ratio Lower Upper  
244 100  
212 10.6 7.7 11.5  
122 19.4 13.6 20.4



#35  
Perylene-d12  
Concen: 0.400 ng  
RT: 23.680 min Scan# 2820  
Delta R.T. -0.000 min  
Lab File: BN038231.D  
Acq: 01 Dec 2025 18:28

Tgt Ion:264 Resp: 10853  
Ion Ratio Lower Upper  
264 100  
260 27.9 21.7 32.5  
265 137.9 98.0 147.0



## Report of Analysis

|                                              |                 |                |
|----------------------------------------------|-----------------|----------------|
| Client: Tetra Tech NUS, Inc.                 | Date Collected: |                |
| Project: NWIRP Bethpage 112G08005-WE13       | Date Received:  |                |
| Client Sample ID: PB170712BS                 | SDG No.:        | Q3691          |
| Lab Sample ID: PB170712BS                    | Matrix:         | Water          |
| Analytical Method: SW8270ESIM    Level: LOW  | % Solid:        | 0              |
| Sample Wt/Vol: 1000 mL    Final Vol: 1000 uL | Test:           | SVOC-SIMGroup1 |
| Prep Method : 3510C    Prep Date: 11/21/25   |                 |                |

| CAS Number                | Parameter               | Conc.             | Qua. | DF | MDL      | LOD  | LOQ / CRQL | Units    | Date Ana.      | Prep BatchID |
|---------------------------|-------------------------|-------------------|------|----|----------|------|------------|----------|----------------|--------------|
| <b>TARGETS</b>            |                         |                   |      |    |          |      |            |          |                |              |
| 123-91-1                  | 1,4-Dioxane             | 0.33              |      | 1  | 0.070    | 0.20 | 0.20       | ug/L     | 12/01/25 19:04 | PB170712     |
| <b>SURROGATES</b>         |                         |                   |      |    |          |      |            |          |                |              |
| 7297-45-2                 | 2-Methylnaphthalene-d10 | 0.41              |      |    | 30 - 150 |      | 101%       | SPK: 0.4 |                |              |
| 93951-69-0                | Fluoranthene-d10        | 0.36              |      |    | 30 - 150 |      | 90%        | SPK: 0.4 |                |              |
| 4165-60-0                 | Nitrobenzene-d5         | 0.40              |      |    | 55 - 111 |      | 99%        | SPK: 0.4 |                |              |
| 321-60-8                  | 2-Fluorobiphenyl        | 0.45              | *    |    | 53 - 106 |      | 113%       | SPK: 0.4 |                |              |
| 1718-51-0                 | Terphenyl-d14           | 0.36              |      |    | 58 - 132 |      | 91%        | SPK: 0.4 |                |              |
| <b>INTERNAL STANDARDS</b> |                         | <b>Area Count</b> |      |    |          |      |            |          |                |              |
| 3855-82-1                 | 1,4-Dichlorobenzene-d4  | 7900              |      |    |          |      |            |          |                |              |
| 1146-65-2                 | Naphthalene-d8          | 22400             |      |    |          |      |            |          |                |              |
| 15067-26-2                | Acenaphthene-d10        | 10400             |      |    |          |      |            |          |                |              |
| 1517-22-2                 | Phenanthrene-d10        | 14700             |      |    |          |      |            |          |                |              |
| 1719-03-5                 | Chrysene-d12            | 10100             |      |    |          |      |            |          |                |              |
| 1520-96-3                 | Perylene-d12            | 10400             |      |    |          |      |            |          |                |              |

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\BN120125\  
 Data File : BN038232.D  
 Acq On : 01 Dec 2025 19:04  
 Operator : RC/JU  
 Sample : PB170712BS  
 Misc :  
 ALS Vial : 4 Sample Multiplier: 1

**Instrument :**

BNA\_N

**ClientSampleId :**

PB170712BS

**Manual Integrations****APPROVED**

Reviewed By :Jagrut Upadhyay 12/02/2025  
 Supervised By :mohammad ahmed 12/03/2025

Quant Time: Dec 02 01:08:47 2025

Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\8270-SIM-BN112725.M

Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

QLast Update : Fri Nov 28 21:04:10 2025

Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc  | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|-------|--------|----------|
| -----                         |        |      |          |       |        |          |
| Internal Standards            |        |      |          |       |        |          |
| 1) 1,4-Dichlorobenzene-d4     | 7.768  | 152  | 7901     | 0.400 | ng     | 0.00     |
| 7) Naphthalene-d8             | 10.562 | 136  | 22379    | 0.400 | ng     | #-0.01   |
| 13) Acenaphthene-d10          | 14.430 | 164  | 10358    | 0.400 | ng     | 0.00     |
| 19) Phenanthrene-d10          | 17.186 | 188  | 14739    | 0.400 | ng     | 0.00     |
| 29) Chrysene-d12              | 21.366 | 240  | 10142    | 0.400 | ng     | 0.00     |
| 35) Perylene-d12              | 23.674 | 264  | 10375    | 0.400 | ng     | 0.00     |
|                               |        |      |          |       |        |          |
| System Monitoring Compounds   |        |      |          |       |        |          |
| 4) 2-Fluorophenol             | 5.341  | 112  | 7243     | 0.392 | ng     | 0.00     |
| 5) Phenol-d6                  | 6.930  | 99   | 8256     | 0.358 | ng     | 0.00     |
| 8) Nitrobenzene-d5            | 8.918  | 82   | 7089     | 0.396 | ng     | 0.00     |
| 11) 2-Methylnaphthalene-d10   | 12.167 | 152  | 12867m   | 0.405 | ng     | 0.00     |
| 14) 2,4,6-Tribromophenol      | 15.932 | 330  | 1053     | 0.323 | ng     | 0.00     |
| 15) 2-Fluorobiphenyl          | 13.051 | 172  | 18137    | 0.453 | ng     | 0.00     |
| 27) Fluoranthene-d10          | 19.215 | 212  | 11485    | 0.359 | ng     | 0.00     |
| 31) Terphenyl-d14             | 19.815 | 244  | 8499     | 0.363 | ng     | 0.00     |
|                               |        |      |          |       |        |          |
| Target Compounds              |        |      |          |       | Qvalue |          |
| 2) 1,4-Dioxane                | 3.254  | 88   | 2735     | 0.329 | ng     | # 70     |
| 3) n-Nitrosodimethylamine     | 3.557  | 42   | 4025     | 0.392 | ng     | # 97     |
| 6) bis(2-Chloroethyl)ether    | 7.183  | 93   | 8565     | 0.388 | ng     | 96       |
| 9) Naphthalene                | 10.616 | 128  | 23360    | 0.376 | ng     | 100      |
| 10) Hexachlorobutadiene       | 10.914 | 225  | 4273     | 0.404 | ng     | # 99     |
| 12) 2-Methylnaphthalene       | 12.238 | 142  | 13296    | 0.325 | ng     | 99       |
| 16) Acenaphthylene            | 14.142 | 152  | 19159    | 0.414 | ng     | 99       |
| 17) Acenaphthene              | 14.484 | 154  | 12125    | 0.376 | ng     | 99       |
| 18) Fluorene                  | 15.478 | 166  | 14602    | 0.349 | ng     | 98       |
| 20) 4,6-Dinitro-2-methylph... | 15.572 | 198  | 547      | 0.510 | ng     | # 57     |
| 21) 4-Bromophenyl-phenylether | 16.379 | 248  | 3913     | 0.383 | ng     | 99       |
| 22) Hexachlorobenzene         | 16.491 | 284  | 5133     | 0.409 | ng     | 100      |
| 23) Atrazine                  | 16.652 | 200  | 2423     | 0.372 | ng     | 99       |
| 24) Pentachlorophenol         | 16.838 | 266  | 1999     | 0.581 | ng     | 98       |
| 25) Phenanthrene              | 17.223 | 178  | 17412    | 0.376 | ng     | 99       |
| 26) Anthracene                | 17.310 | 178  | 15544    | 0.394 | ng     | 99       |
| 28) Fluoranthene              | 19.243 | 202  | 16190    | 0.363 | ng     | 99       |
| 30) Pyrene                    | 19.606 | 202  | 16181    | 0.319 | ng     | 100      |
| 32) Benzo(a)anthracene        | 21.357 | 228  | 13901    | 0.405 | ng     | 98       |
| 33) Chrysene                  | 21.402 | 228  | 15647    | 0.386 | ng     | 98       |
| 34) Bis(2-ethylhexyl)phtha... | 21.286 | 149  | 6216     | 0.331 | ng     | 100      |
| 36) Indeno(1,2,3-cd)pyrene    | 26.028 | 276  | 20586    | 0.429 | ng     | 96       |
| 37) Benzo(b)fluoranthene      | 22.978 | 252  | 16065    | 0.377 | ng     | 99       |
| 38) Benzo(k)fluoranthene      | 23.025 | 252  | 17114    | 0.387 | ng     | 98       |
| 39) Benzo(a)pyrene            | 23.575 | 252  | 14650    | 0.410 | ng     | 97       |
| 40) Dibenzo(a,h)anthracene    | 26.048 | 278  | 15805    | 0.435 | ng     | 98       |
| 41) Benzo(g,h,i)perylene      | 26.741 | 276  | 18052    | 0.416 | ng     | 98       |

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

Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN120125\  
Data File : BN038232.D  
Acq On : 01 Dec 2025 19:04  
Operator : RC/JU  
Sample : PB170712BS  
Misc :  
ALS Vial : 4 Sample Multiplier: 1

## Instrument :

BNA\_N

## ClientSampleId :

PB170712BS

## Manual Integrations

## APPROVED

Reviewed By :Jagrut Upadhyay 12/02/2025  
Supervised By :mohammad ahmed 12/03/2025

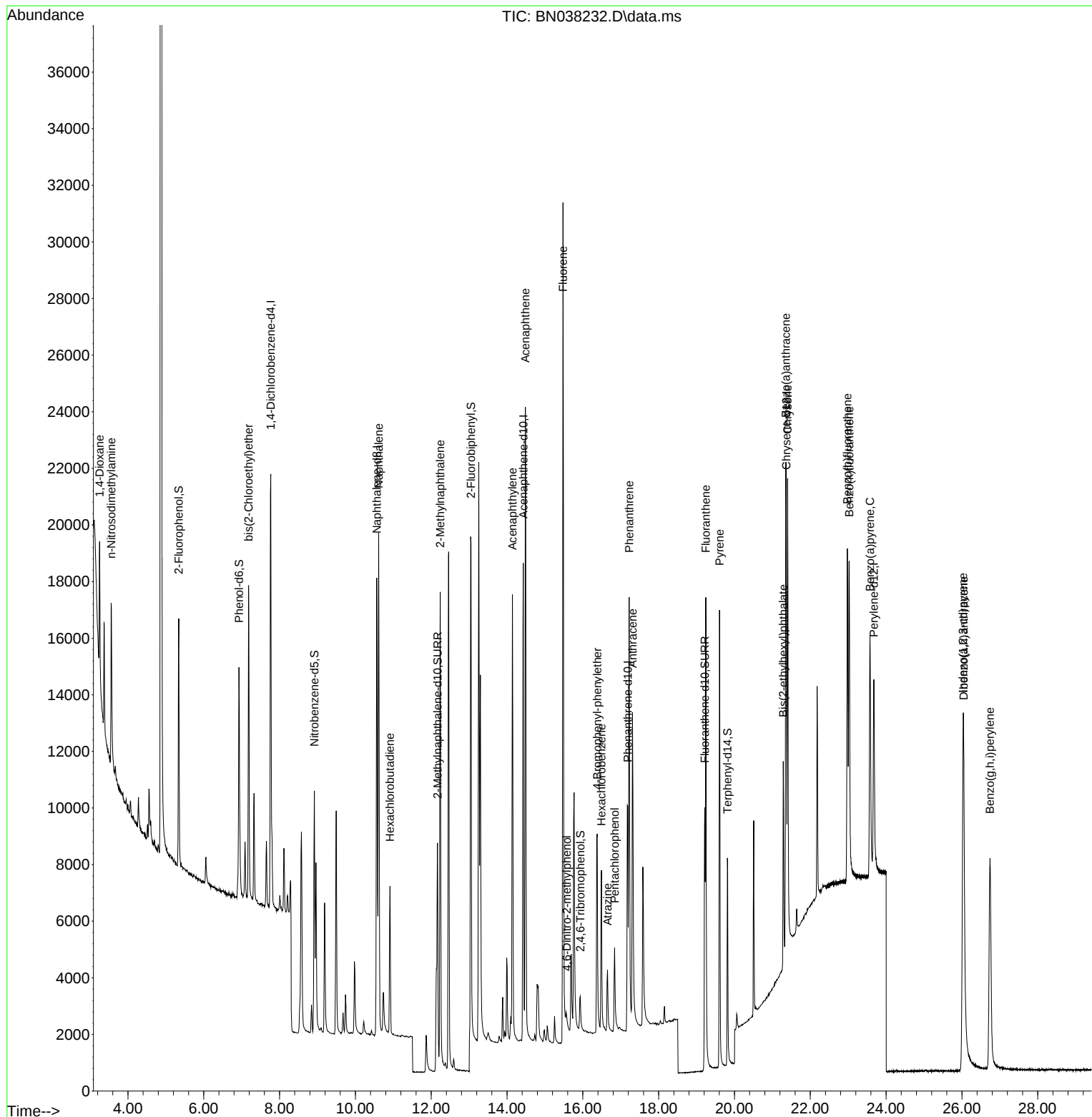
Quant Time: Dec 02 01:08:47 2025

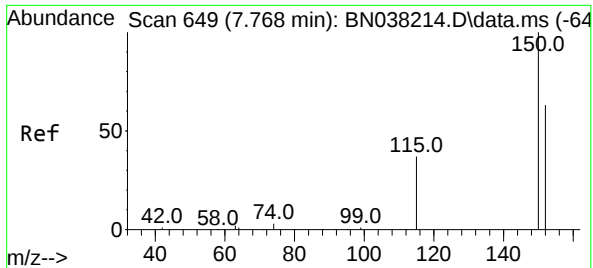
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\8270-SIM-BN112725.M

Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

QLast Update : Fri Nov 28 21:04:10 2025

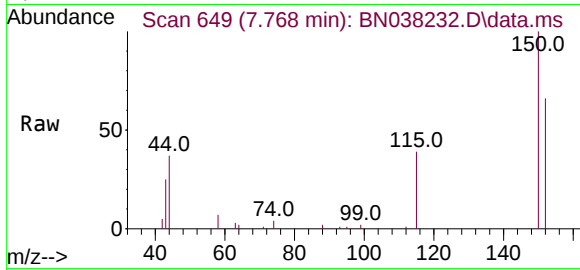
Response via : Initial Calibration





#1  
1,4-Dichlorobenzene-d4  
Concen: 0.400 ng  
RT: 7.768 min Scan# 64  
Delta R.T. -0.000 min  
Lab File: BN038232.D  
Acq: 01 Dec 2025 19:04

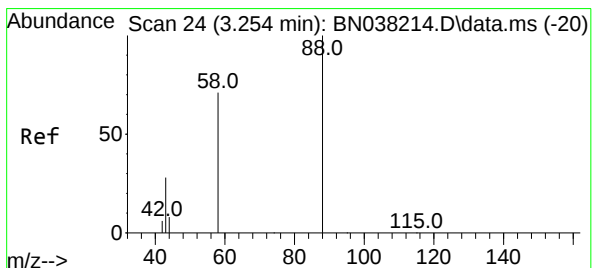
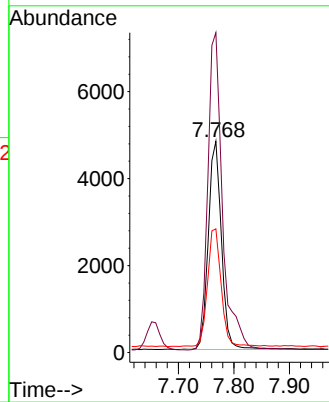
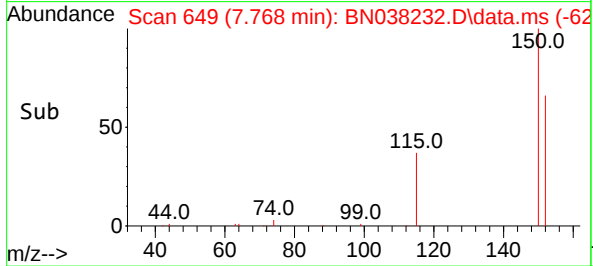
Instrument :  
BNA\_N  
ClientSampleId :  
PB170712BS



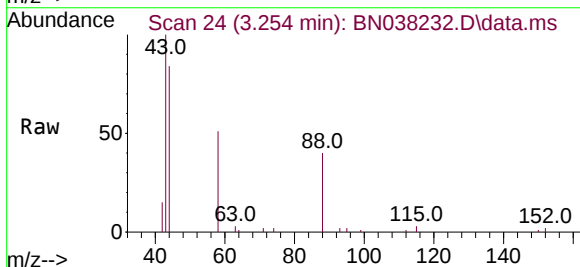
Tgt Ion: 152 Resp: 790  
Ion Ratio Lower Upper  
152 100  
150 151.4 125.3 187.9  
115 58.6 49.0 73.4

Manual Integrations  
APPROVED

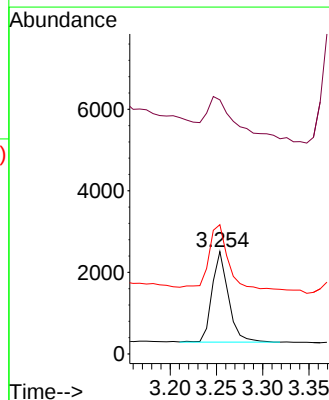
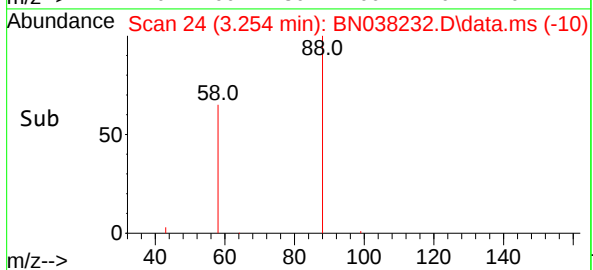
Reviewed By :Jagrut Upadhyay 12/02/2025  
Supervised By :mohammad ahmed 12/03/2025

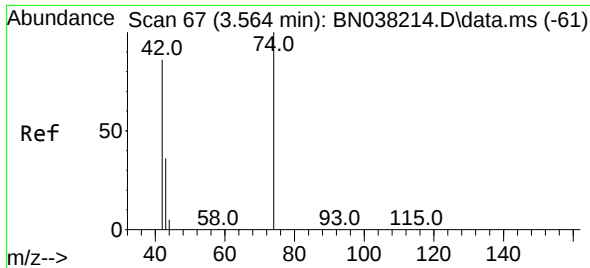


#2  
1,4-Dioxane  
Concen: 0.329 ng  
RT: 3.254 min Scan# 24  
Delta R.T. 0.000 min  
Lab File: BN038232.D  
Acq: 01 Dec 2025 19:04



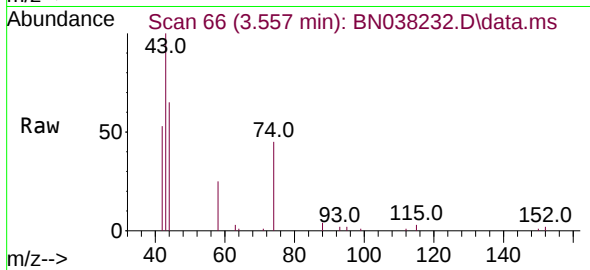
Tgt Ion: 88 Resp: 2735  
Ion Ratio Lower Upper  
88 100  
43 74.2 24.8 37.2#  
58 85.6 61.1 91.7





#3  
n-Nitrosodimethylamine  
Concen: 0.392 ng  
RT: 3.557 min Scan# 60  
Delta R.T. -0.007 min  
Lab File: BN038232.D  
Acq: 01 Dec 2025 19:04

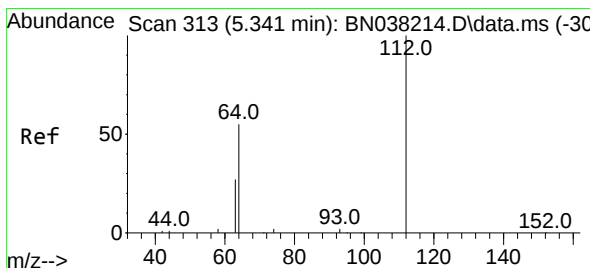
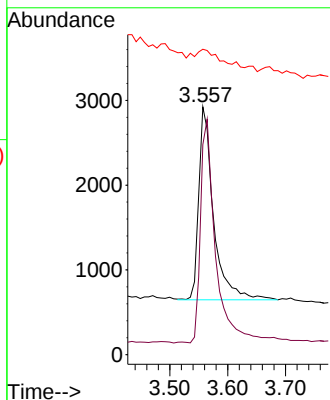
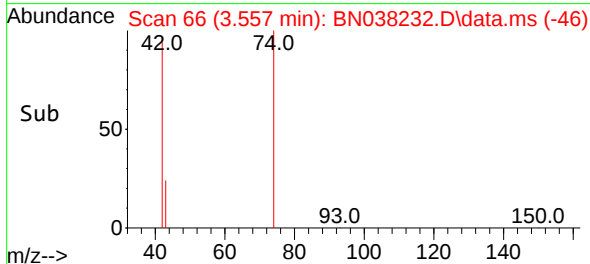
Instrument :  
BNA\_N  
ClientSampleId :  
PB170712BS



Tgt Ion: 42 Resp: 4025  
Ion Ratio Lower Upper  
42 100  
74 119.7 96.2 144.2  
44 20.7 8.0 12.0

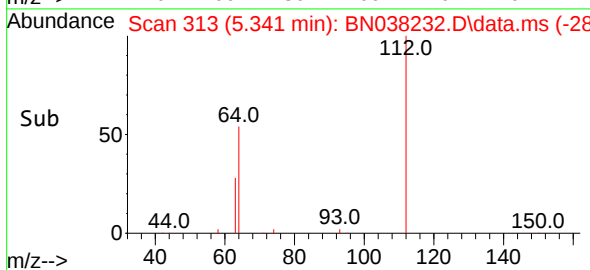
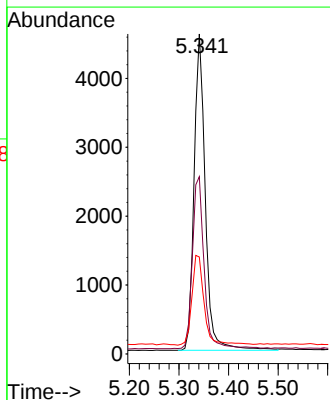
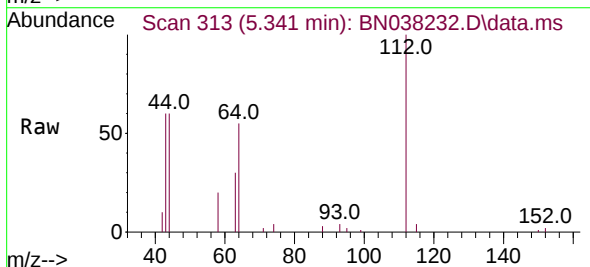
Manual Integrations  
APPROVED

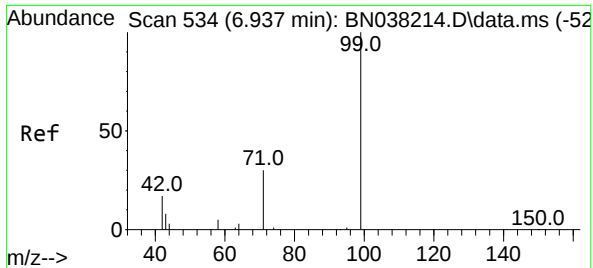
Reviewed By :Jagrut Upadhyay 12/02/2025  
Supervised By :mohammad ahmed 12/03/2025



#4  
2-Fluorophenol  
Concen: 0.392 ng  
RT: 5.341 min Scan# 313  
Delta R.T. 0.000 min  
Lab File: BN038232.D  
Acq: 01 Dec 2025 19:04

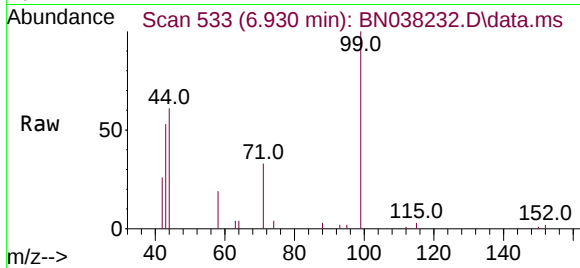
Tgt Ion:112 Resp: 7243  
Ion Ratio Lower Upper  
112 100  
64 56.2 45.0 67.4  
63 31.0 23.2 34.8





#5  
Phenol-d6  
Concen: 0.358 ng  
RT: 6.930 min Scan# 534  
Delta R.T. -0.007 min  
Lab File: BN038232.D  
Acq: 01 Dec 2025 19:04

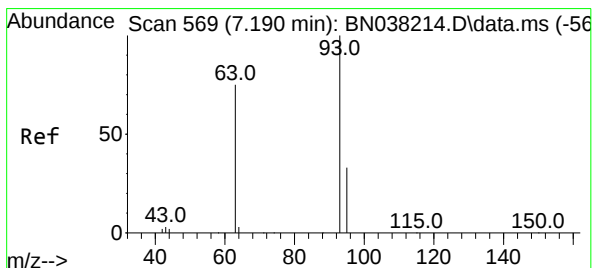
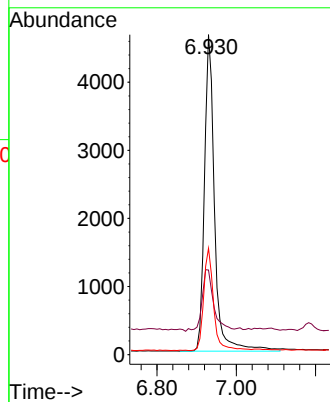
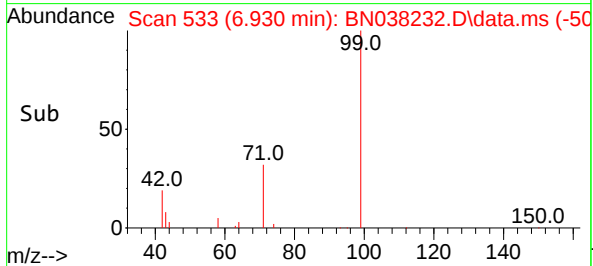
Instrument :  
BNA\_N  
ClientSampleId :  
PB170712BS



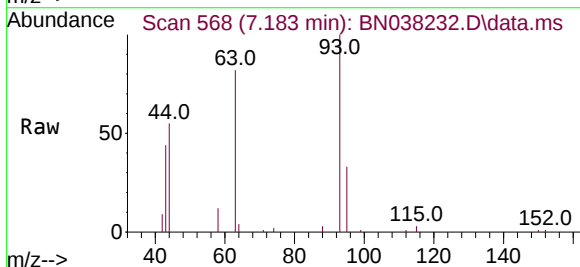
Tgt Ion: 99 Resp: 8256  
Ion Ratio Lower Upper  
99 100  
42 22.5 17.0 25.6  
71 31.4 25.4 38.2

Manual Integrations  
APPROVED

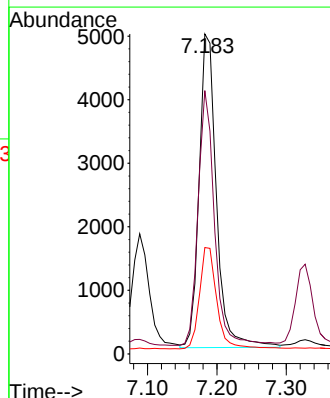
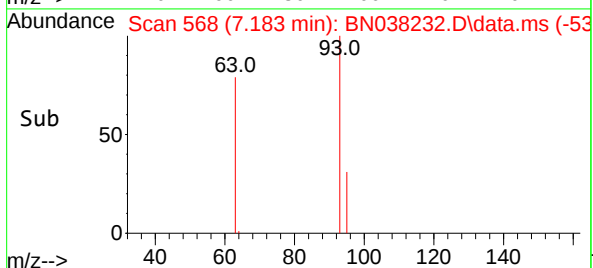
Reviewed By :Jagrut Upadhyay 12/02/2025  
Supervised By :mohammad ahmed 12/03/2025

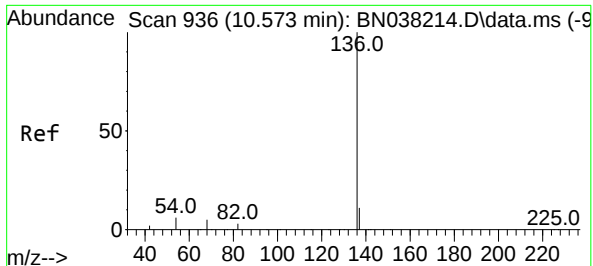


#6  
bis(2-Chloroethyl)ether  
Concen: 0.388 ng  
RT: 7.183 min Scan# 568  
Delta R.T. -0.007 min  
Lab File: BN038232.D  
Acq: 01 Dec 2025 19:04



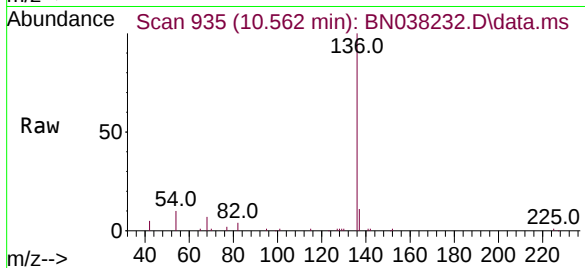
Tgt Ion: 93 Resp: 8565  
Ion Ratio Lower Upper  
93 100  
63 76.9 58.1 87.1  
95 32.6 25.1 37.7





#7  
Naphthalene-d8  
Concen: 0.400 ng  
RT: 10.562 min Scan# 936  
Delta R.T. -0.011 min  
Lab File: BN038232.D  
Acq: 01 Dec 2025 19:04

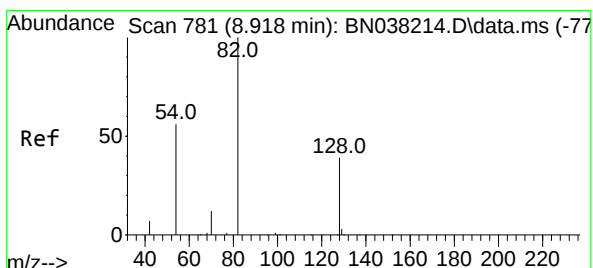
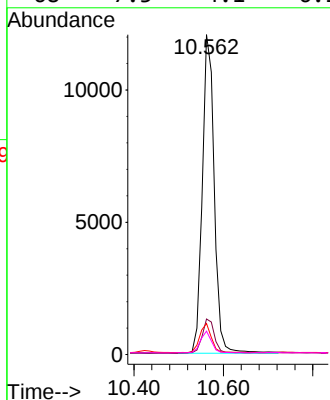
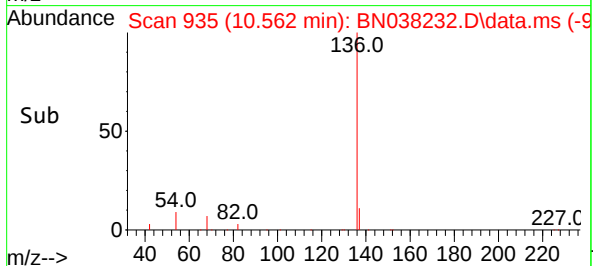
Instrument :  
BNA\_N  
ClientSampleId :  
PB170712BS



Tgt Ion: 136 Resp: 22379  
Ion Ratio Lower Upper  
136 100  
137 11.1 8.9 13.3  
54 9.7 5.4 8.0  
68 7.3 4.1 6.1

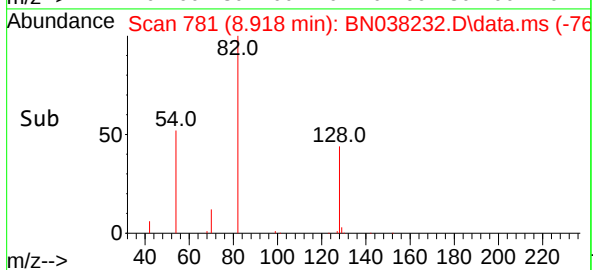
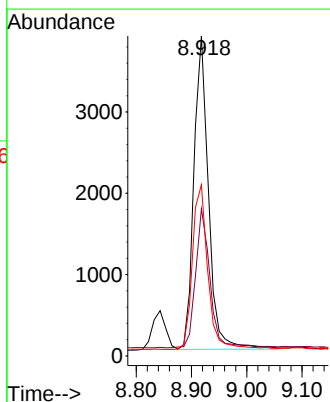
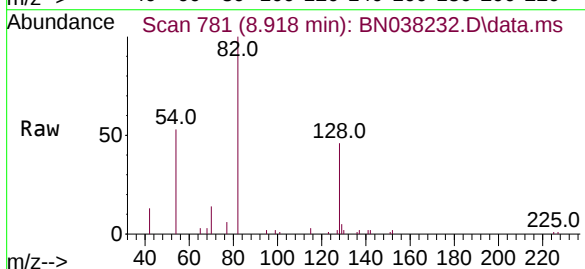
Manual Integrations  
APPROVED

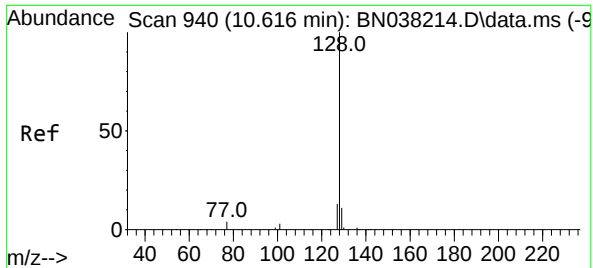
Reviewed By :Jagrut Upadhyay 12/02/2025  
Supervised By :mohammad ahmed 12/03/2025



#8  
Nitrobenzene-d5  
Concen: 0.396 ng  
RT: 8.918 min Scan# 781  
Delta R.T. 0.000 min  
Lab File: BN038232.D  
Acq: 01 Dec 2025 19:04

Tgt Ion: 82 Resp: 7089  
Ion Ratio Lower Upper  
82 100  
128 46.0 32.6 48.8  
54 53.5 45.4 68.0





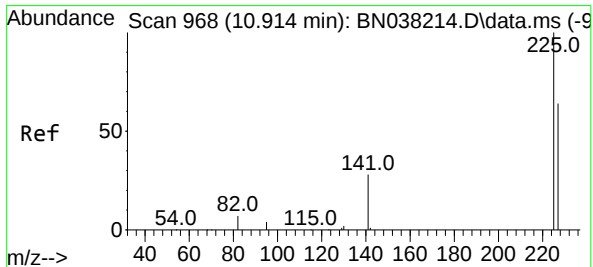
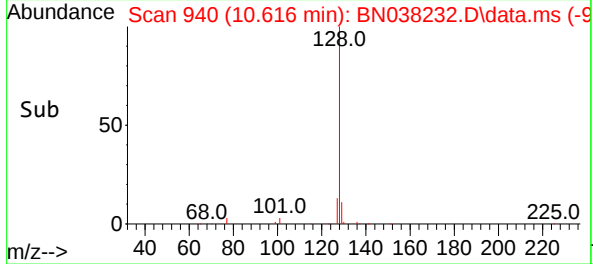
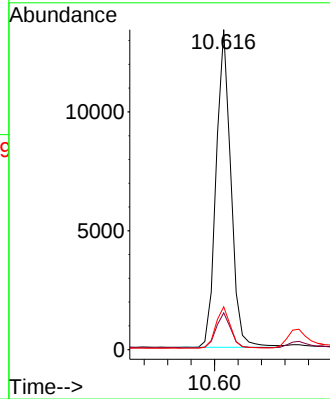
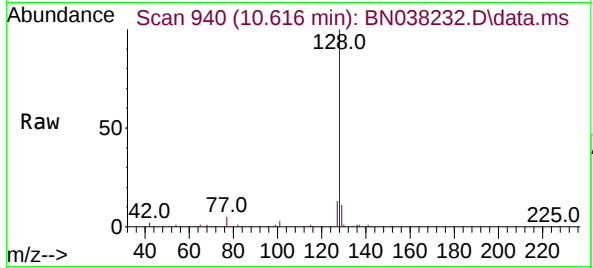
#9  
Naphthalene  
Concen: 0.376 ng  
RT: 10.616 min Scan# 940  
Delta R.T. 0.000 min  
Lab File: BN038232.D  
Acq: 01 Dec 2025 19:04

Instrument :  
BNA\_N  
ClientSampleId :  
PB170712BS

Tgt Ion:128 Resp: 23360  
Ion Ratio Lower Upper  
128 100  
129 11.5 9.1 13.7  
127 13.4 10.6 16.0

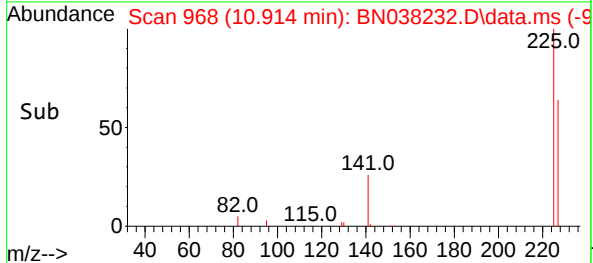
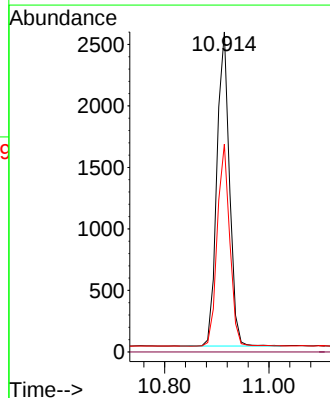
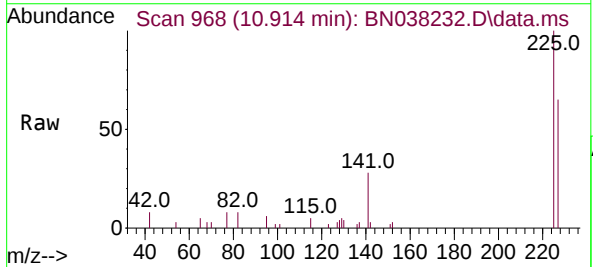
Manual Integrations  
APPROVED

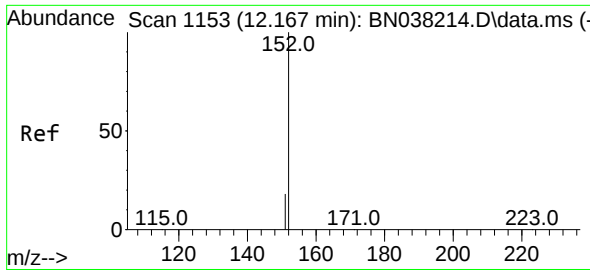
Reviewed By :Jagrut Upadhyay 12/02/2025  
Supervised By :mohammad ahmed 12/03/2025



#10  
Hexachlorobutadiene  
Concen: 0.404 ng  
RT: 10.914 min Scan# 968  
Delta R.T. 0.000 min  
Lab File: BN038232.D  
Acq: 01 Dec 2025 19:04

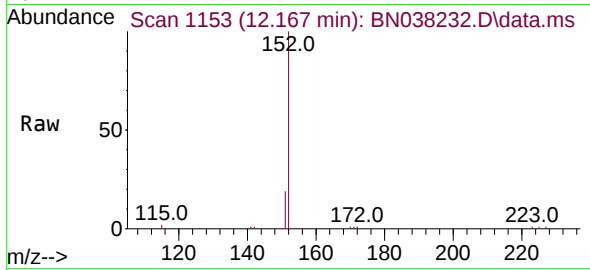
Tgt Ion:225 Resp: 4273  
Ion Ratio Lower Upper  
225 100  
223 0.0 0.0 0.0  
227 63.9 50.5 75.7





#11  
2-Methylnaphthalene-d10  
Concen: 0.405 ng m  
RT: 12.167 min Scan# 1153  
Delta R.T. 0.000 min  
Lab File: BN038232.D  
Acq: 01 Dec 2025 19:04

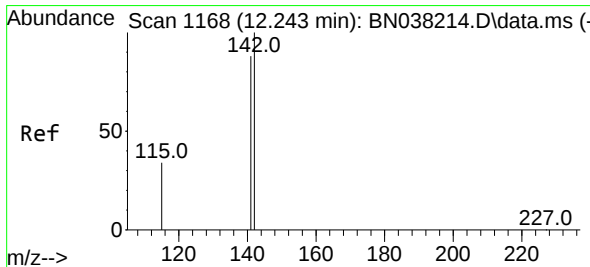
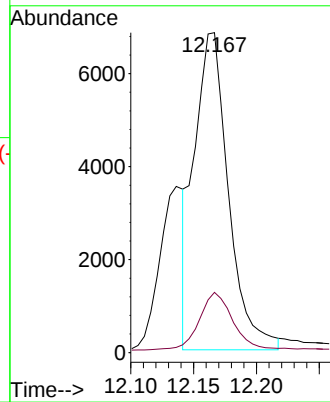
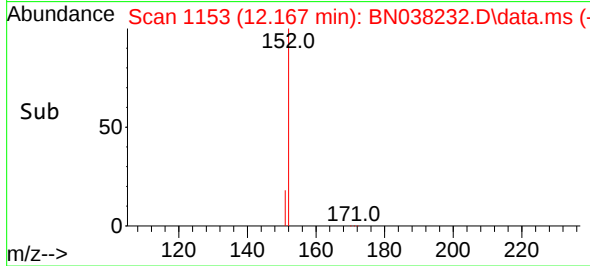
Instrument :  
BNA\_N  
ClientSampleId :  
PB170712BS



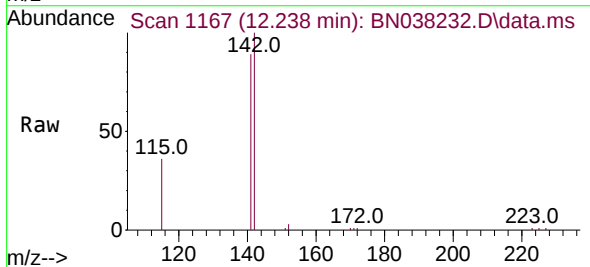
Tgt Ion:152 Resp: 1286  
Ion Ratio Lower Upper  
152 100  
151 18.2 16.7 25.1

Manual Integrations  
APPROVED

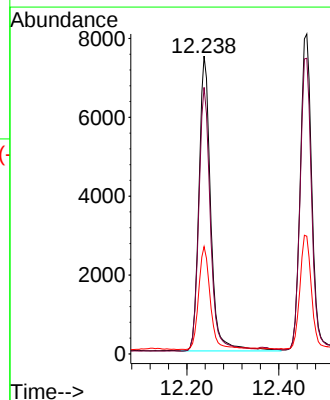
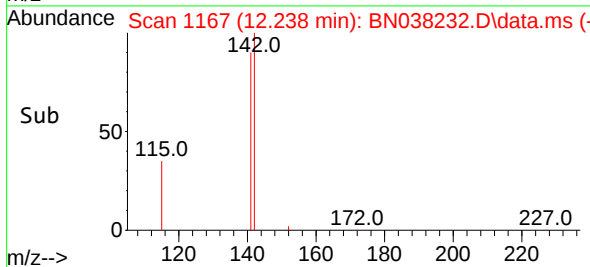
Reviewed By :Jagrut Upadhyay 12/02/2025  
Supervised By :mohammad ahmed 12/03/2025

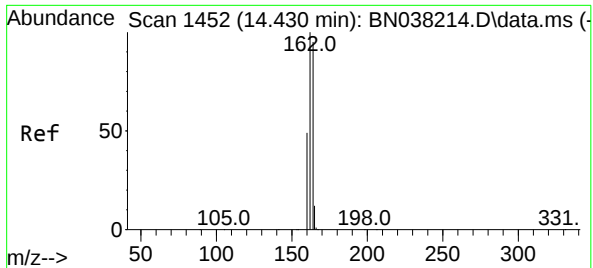


#12  
2-Methylnaphthalene  
Concen: 0.325 ng  
RT: 12.238 min Scan# 1167  
Delta R.T. -0.005 min  
Lab File: BN038232.D  
Acq: 01 Dec 2025 19:04



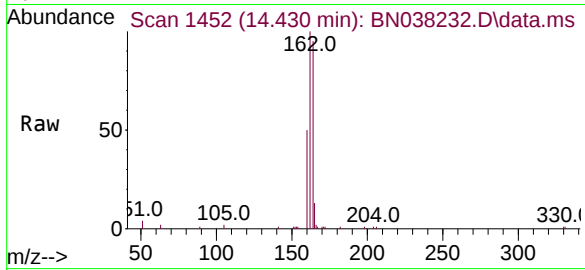
Tgt Ion:142 Resp: 13296  
Ion Ratio Lower Upper  
142 100  
141 89.5 70.9 106.3  
115 36.0 27.7 41.5





#13  
Acenaphthene-d10  
Concen: 0.400 ng  
RT: 14.430 min Scan# 1452  
Delta R.T. 0.000 min  
Lab File: BN038232.D  
Acq: 01 Dec 2025 19:04

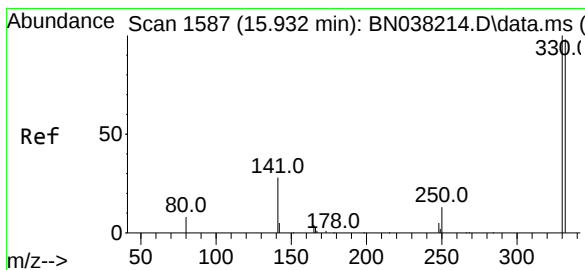
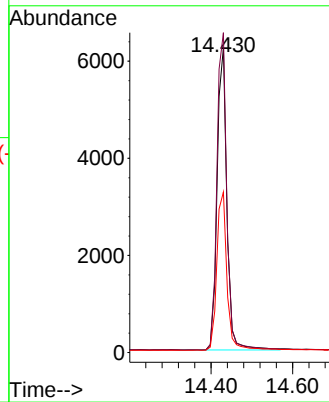
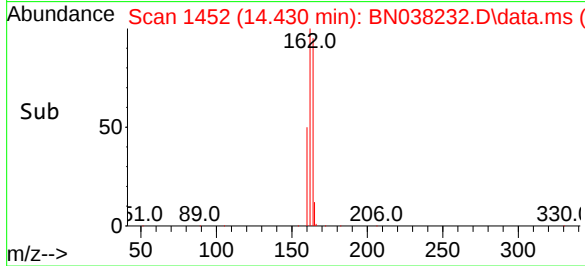
Instrument :  
BNA\_N  
ClientSampleId :  
PB170712BS



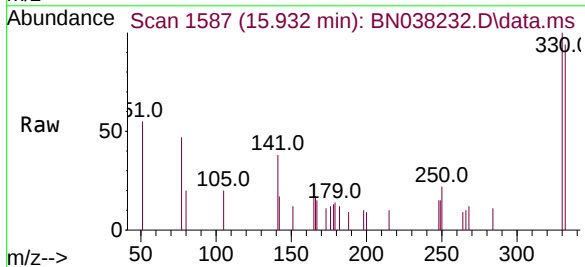
Tgt Ion:164 Resp: 10358  
Ion Ratio Lower Upper  
164 100  
162 104.9 83.8 125.8  
160 52.7 41.6 62.4

Manual Integrations  
APPROVED

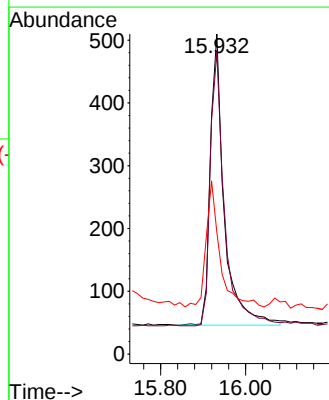
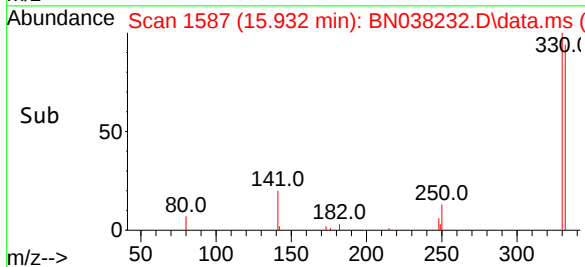
Reviewed By :Jagrut Upadhyay 12/02/2025  
Supervised By :mohammad ahmed 12/03/2025

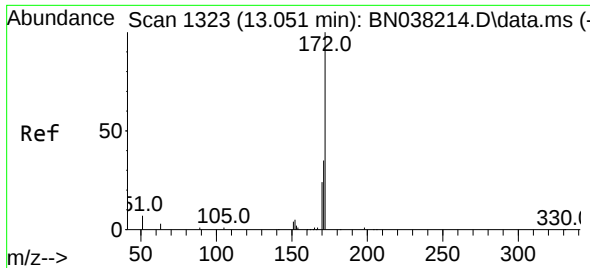


#14  
2,4,6-Tribromophenol  
Concen: 0.323 ng  
RT: 15.932 min Scan# 1587  
Delta R.T. 0.000 min  
Lab File: BN038232.D  
Acq: 01 Dec 2025 19:04



Tgt Ion:330 Resp: 1053  
Ion Ratio Lower Upper  
330 100  
332 97.5 77.8 116.6  
141 42.5 33.0 49.4





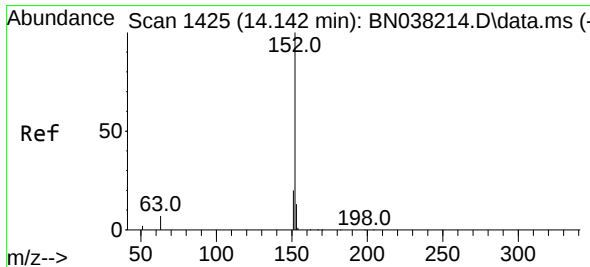
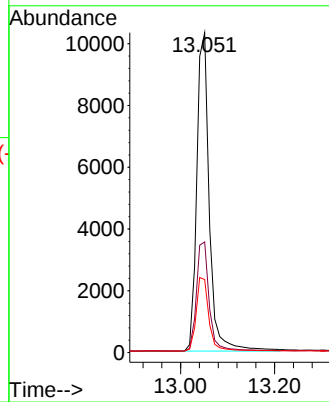
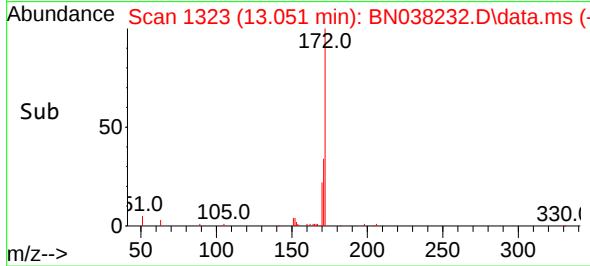
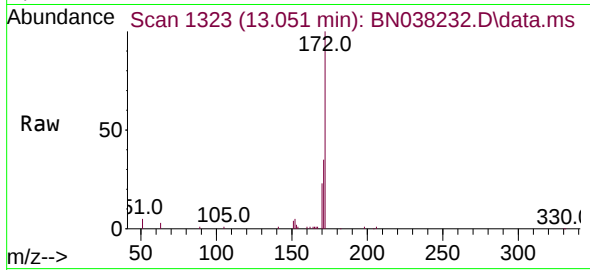
#15  
2-Fluorobiphenyl  
Concen: 0.453 ng  
RT: 13.051 min Scan# 1323  
Delta R.T. 0.000 min  
Lab File: BN038232.D  
Acq: 01 Dec 2025 19:04

Instrument :  
BNA\_N  
ClientSampleId :  
PB170712BS

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 172     | 100   |       |       |
| 171     | 34.6  | 28.1  | 42.1  |
| 170     | 22.8  | 19.1  | 28.7  |

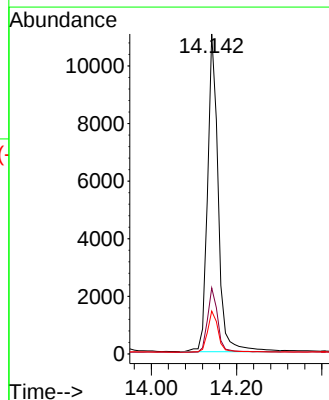
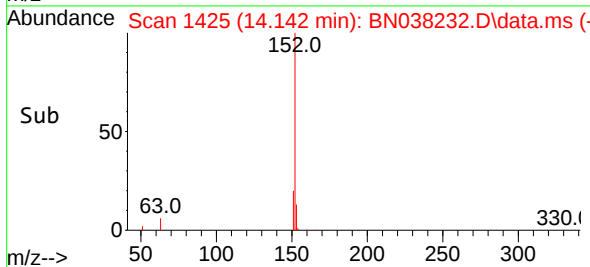
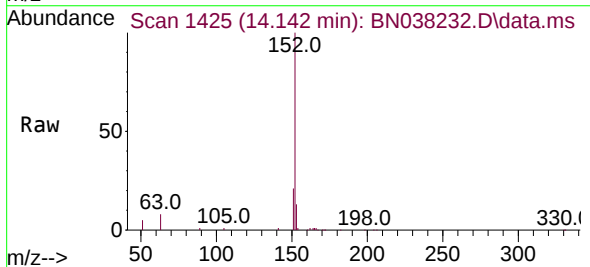
Manual Integrations  
**APPROVED**

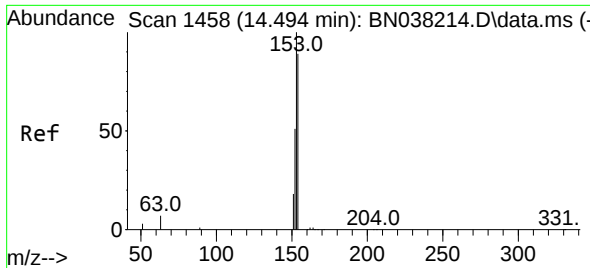
Reviewed By :Jagrut Upadhyay 12/02/2025  
Supervised By :mohammad ahmed 12/03/2025



#16  
Acenaphthylene  
Concen: 0.414 ng  
RT: 14.142 min Scan# 1425  
Delta R.T. 0.000 min  
Lab File: BN038232.D  
Acq: 01 Dec 2025 19:04

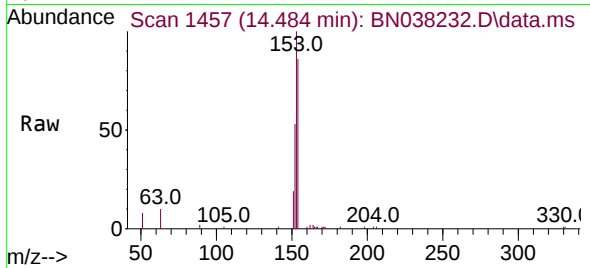
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 151     | 19.9  | 15.6  | 23.4  |
| 153     | 13.1  | 10.6  | 15.8  |





#17  
Acenaphthene  
Concen: 0.376 ng  
RT: 14.484 min Scan# 1458  
Delta R.T. -0.011 min  
Lab File: BN038232.D  
Acq: 01 Dec 2025 19:04

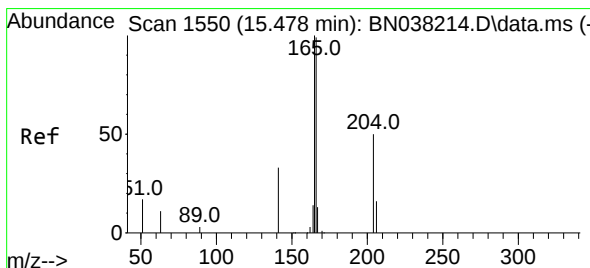
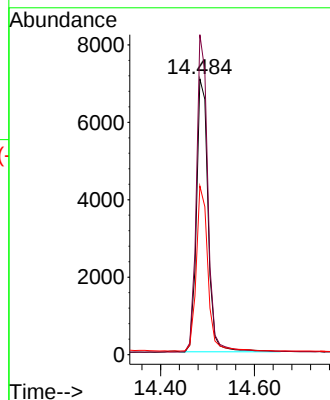
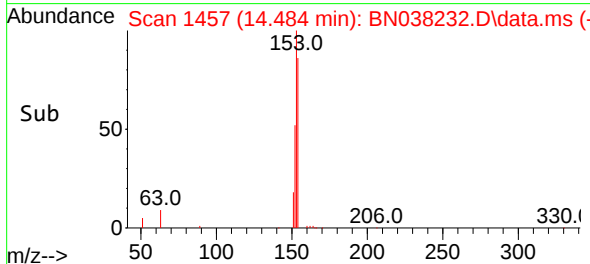
Instrument :  
BNA\_N  
ClientSampleId :  
PB170712BS



Tgt Ion:154 Resp: 12125  
Ion Ratio Lower Upper  
154 100  
153 115.2 91.1 136.7  
152 60.7 48.2 72.2

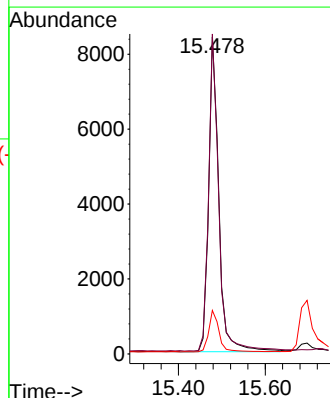
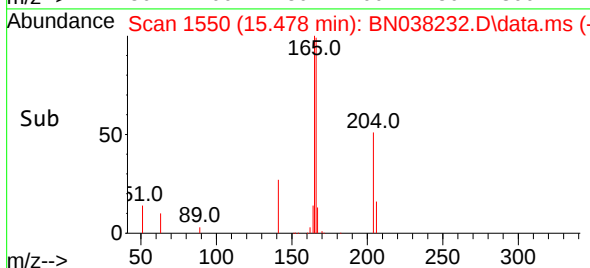
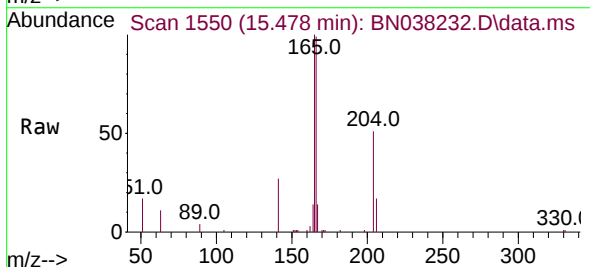
Manual Integrations  
APPROVED

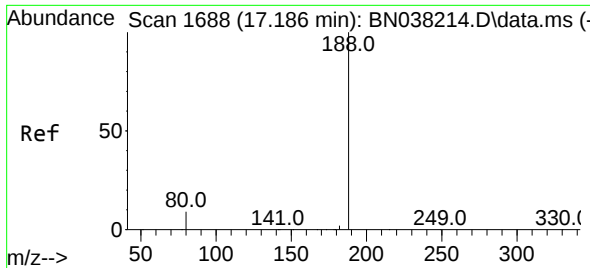
Reviewed By :Jagrut Upadhyay 12/02/2025  
Supervised By :mohammad ahmed 12/03/2025



#18  
Fluorene  
Concen: 0.349 ng  
RT: 15.478 min Scan# 1550  
Delta R.T. -0.000 min  
Lab File: BN038232.D  
Acq: 01 Dec 2025 19:04

Tgt Ion:166 Resp: 14602  
Ion Ratio Lower Upper  
166 100  
165 100.1 78.7 118.1  
167 13.2 10.9 16.3





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 17.186 min Scan# 1688

Delta R.T. 0.000 min

Lab File: BN038232.D

Acq: 01 Dec 2025 19:04

Instrument :

BNA\_N

ClientSampleId :

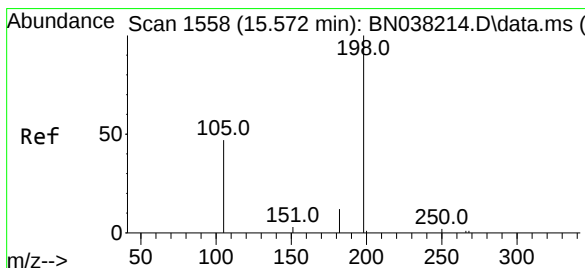
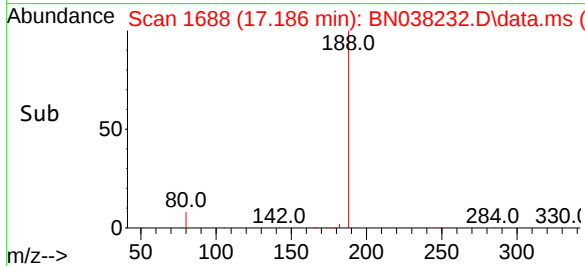
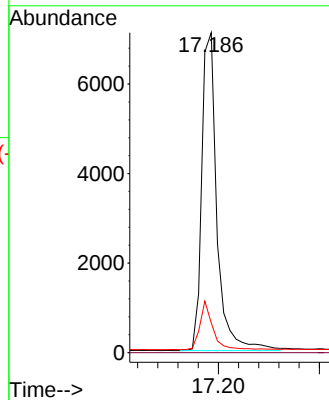
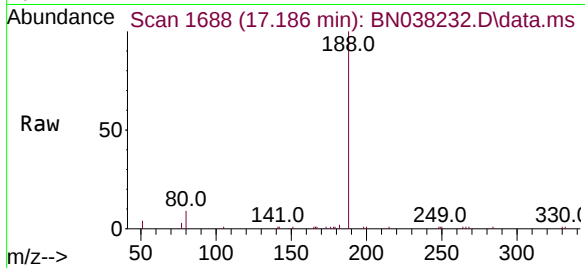
PB170712BS

|             |       |       |
|-------------|-------|-------|
| Tgt Ion:188 | Resp: | 14739 |
| Ion Ratio   | Lower | Upper |
| 188         | 100   |       |
| 94          | 0.0   | 0.0   |
| 80          | 9.3   | 11.5  |

Manual Integrations

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Reviewed By :Jagrut Upadhyay 12/02/2025  
 Supervised By :mohammad ahmed 12/03/2025



#20

4,6-Dinitro-2-methylphenol

Concen: 0.510 ng

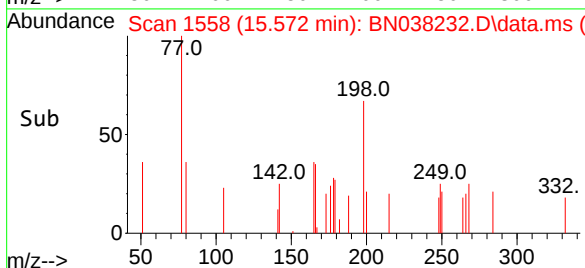
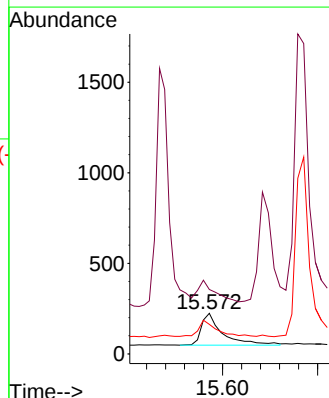
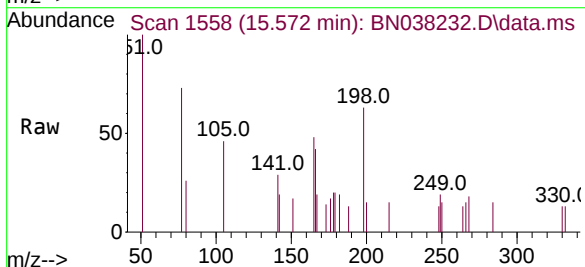
RT: 15.572 min Scan# 1558

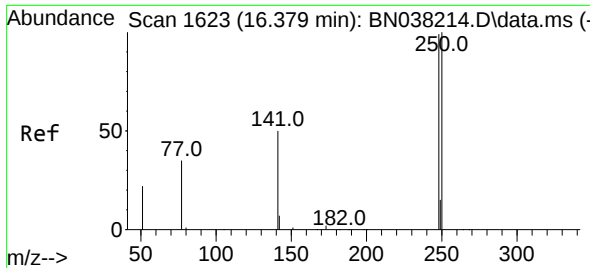
Delta R.T. 0.000 min

Lab File: BN038232.D

Acq: 01 Dec 2025 19:04

|             |       |       |
|-------------|-------|-------|
| Tgt Ion:198 | Resp: | 547   |
| Ion Ratio   | Lower | Upper |
| 198         | 100   |       |
| 51          | 158.9 | 205.1 |
| 105         | 72.8  | 61.6  |





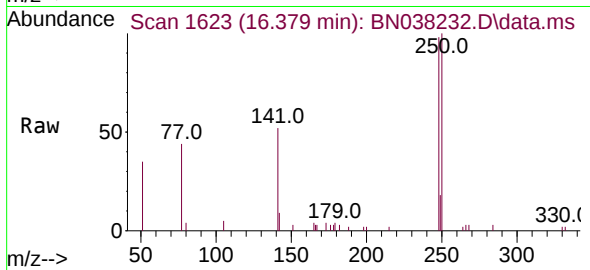
#21  
4-Bromophenyl-phenylether  
Concen: 0.383 ng  
RT: 16.379 min Scan# 1623  
Delta R.T. 0.000 min  
Lab File: BN038232.D  
Acq: 01 Dec 2025 19:04

Instrument :

BNA\_N

ClientSampleId :

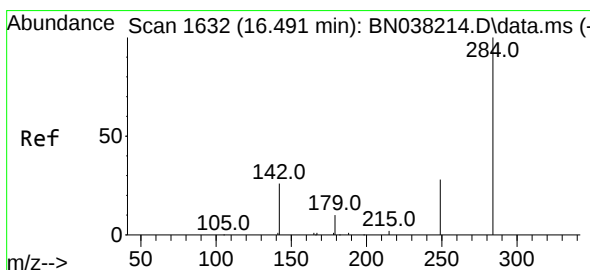
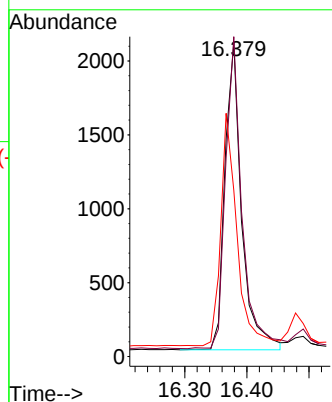
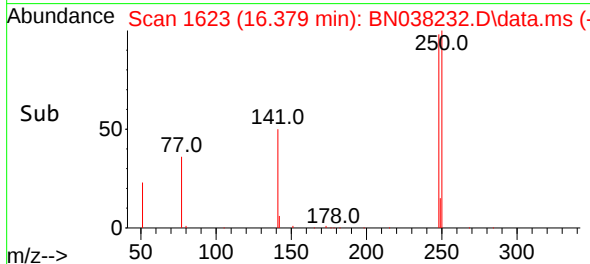
PB170712BS



| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 248     | 100   |       |       |
| 250     | 101.9 | 80.8  | 121.2 |
| 141     | 53.0  | 41.0  | 61.6  |

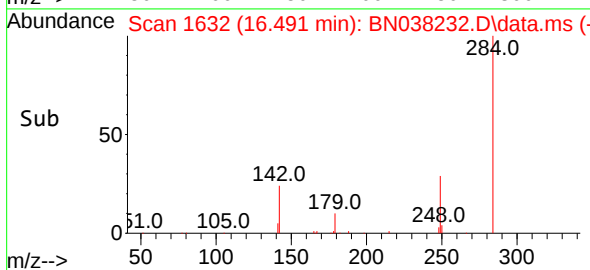
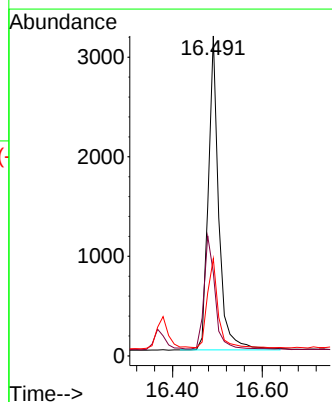
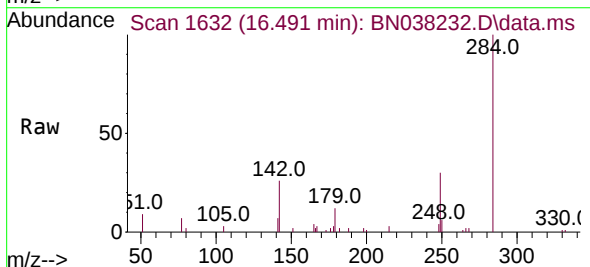
Manual Integrations  
APPROVED

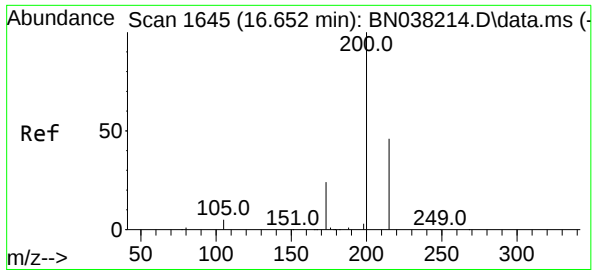
Reviewed By :Jagrut Upadhyay 12/02/2025  
Supervised By :mohammad ahmed 12/03/2025



#22  
Hexachlorobenzene  
Concen: 0.409 ng  
RT: 16.491 min Scan# 1632  
Delta R.T. 0.000 min  
Lab File: BN038232.D  
Acq: 01 Dec 2025 19:04

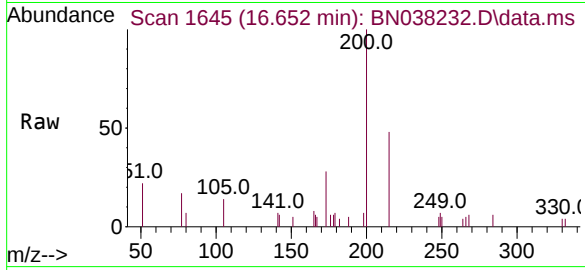
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 284     | 100   |       |       |
| 142     | 37.8  | 30.5  | 45.7  |
| 249     | 29.7  | 23.8  | 35.8  |





#23  
Atrazine  
Concen: 0.372 ng  
RT: 16.652 min Scan# 1645  
Delta R.T. 0.000 min  
Lab File: BN038232.D  
Acq: 01 Dec 2025 19:04

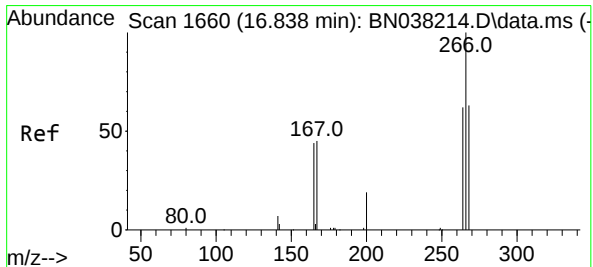
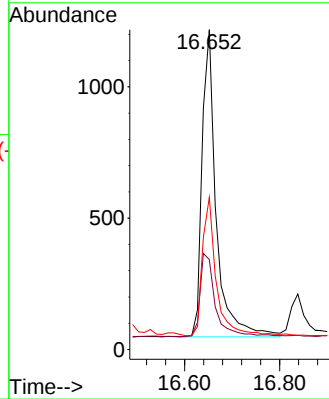
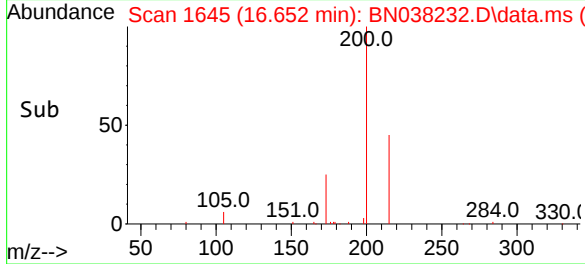
Instrument :  
BNA\_N  
ClientSampleId :  
PB170712BS



Tgt Ion:200 Resp: 2423  
Ion Ratio Lower Upper  
200 100  
173 28.1 21.0 31.6  
215 47.5 37.8 56.8

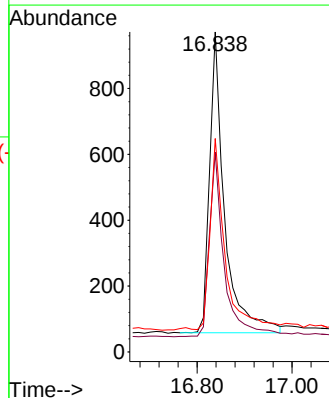
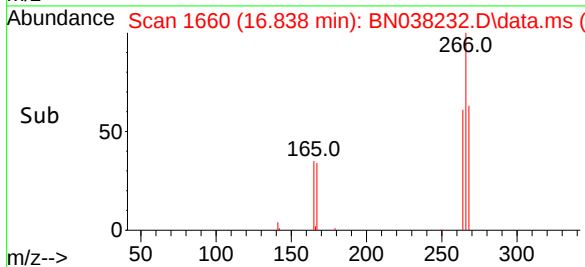
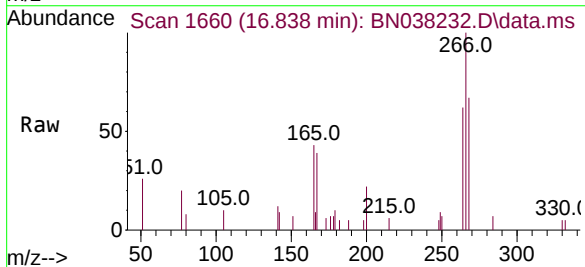
Manual Integrations  
APPROVED

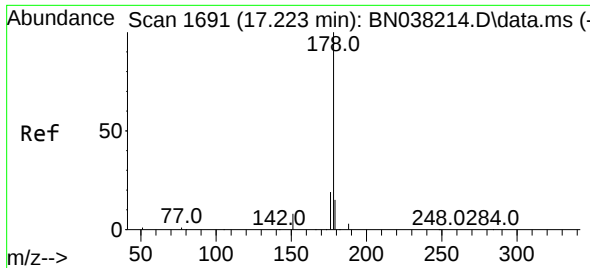
Reviewed By :Jagrut Upadhyay 12/02/2025  
Supervised By :mohammad ahmed 12/03/2025



#24  
Pentachlorophenol  
Concen: 0.581 ng  
RT: 16.838 min Scan# 1660  
Delta R.T. 0.000 min  
Lab File: BN038232.D  
Acq: 01 Dec 2025 19:04

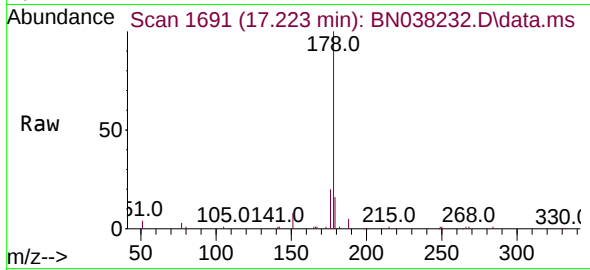
Tgt Ion:266 Resp: 1999  
Ion Ratio Lower Upper  
266 100  
264 60.8 48.9 73.3  
268 65.0 50.2 75.2





#25  
Phenanthrene  
Concen: 0.376 ng  
RT: 17.223 min Scan# 1691  
Delta R.T. 0.000 min  
Lab File: BN038232.D  
Acq: 01 Dec 2025 19:04

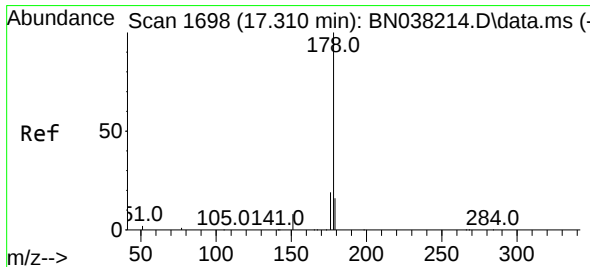
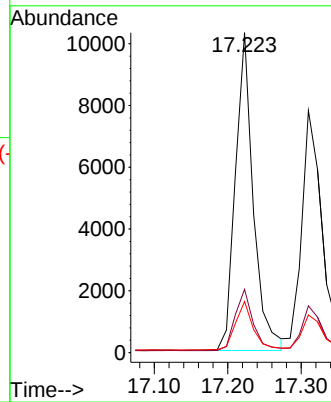
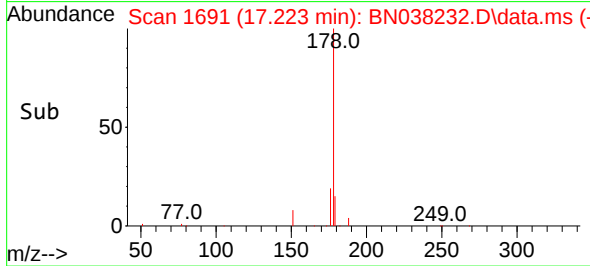
Instrument :  
BNA\_N  
ClientSampleId :  
PB170712BS



Tgt Ion:178 Resp: 17412  
Ion Ratio Lower Upper  
178 100  
176 19.5 15.3 22.9  
179 15.3 12.0 18.0

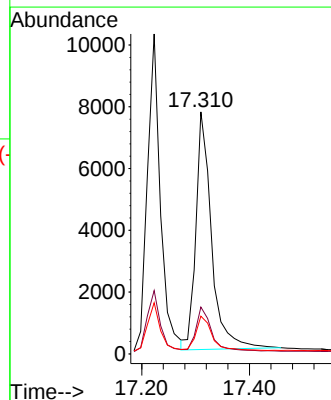
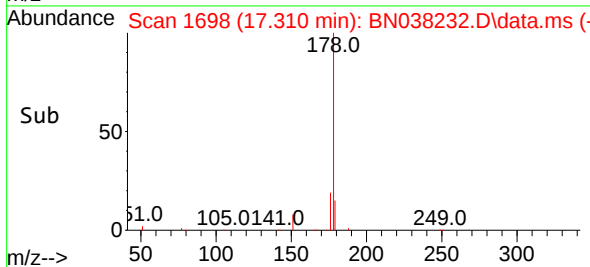
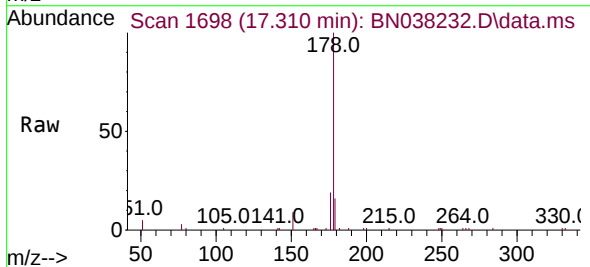
Manual Integrations  
APPROVED

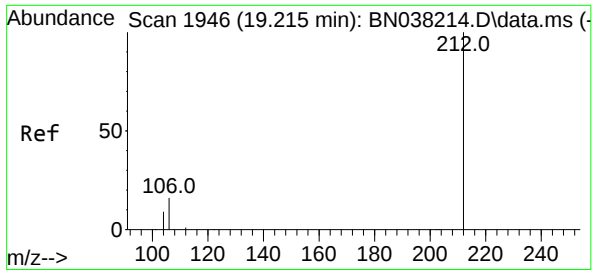
Reviewed By :Jagrut Upadhyay 12/02/2025  
Supervised By :mohammad ahmed 12/03/2025



#26  
Anthracene  
Concen: 0.394 ng  
RT: 17.310 min Scan# 1698  
Delta R.T. 0.000 min  
Lab File: BN038232.D  
Acq: 01 Dec 2025 19:04

Tgt Ion:178 Resp: 15544  
Ion Ratio Lower Upper  
178 100  
176 19.0 14.7 22.1  
179 15.0 12.3 18.5





#27

Fluoranthene-d10

Concen: 0.359 ng

RT: 19.215 min Scan# 1946

Delta R.T. 0.000 min

Lab File: BN038232.D

Acq: 01 Dec 2025 19:04

Instrument :

BNA\_N

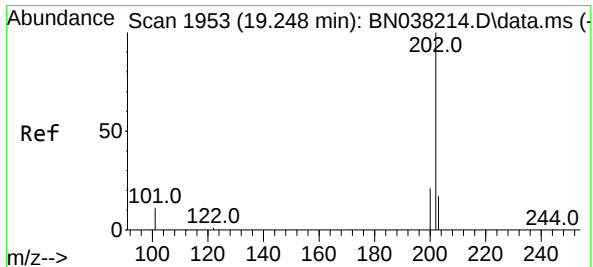
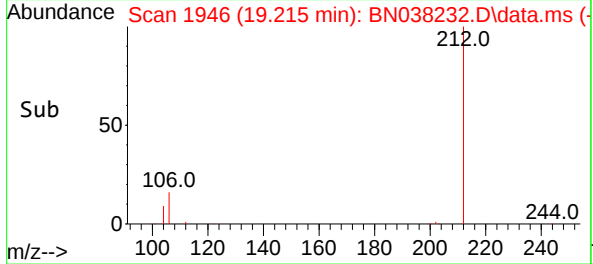
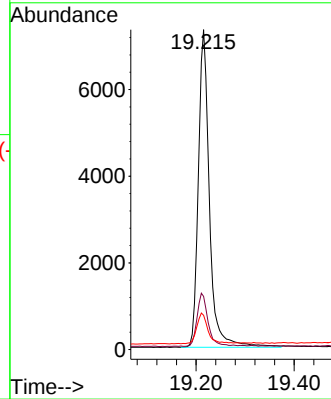
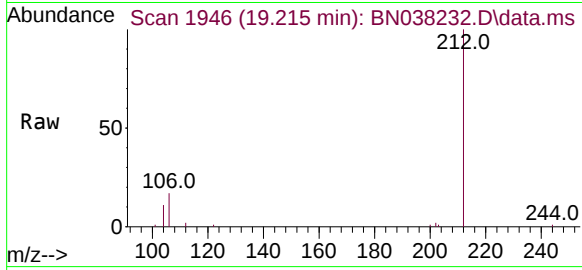
ClientSampleId :

PB170712BS

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 212   | Resp: | 11485 |
| Ion Ratio | Lower | Upper |       |
| 212       | 100   |       |       |
| 106       | 16.6  | 12.7  | 19.1  |
| 104       | 9.9   | 7.3   | 10.9  |

Manual Integrations  
APPROVED

Reviewed By :Jagrut Upadhyay 12/02/2025  
Supervised By :mohammad ahmed 12/03/2025



#28

Fluoranthene

Concen: 0.363 ng

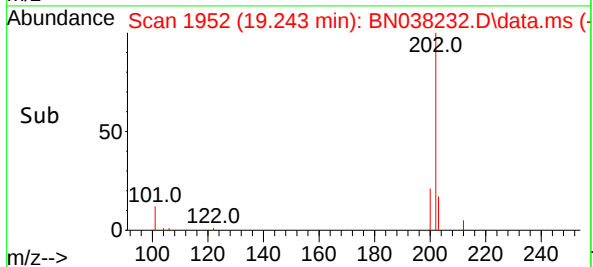
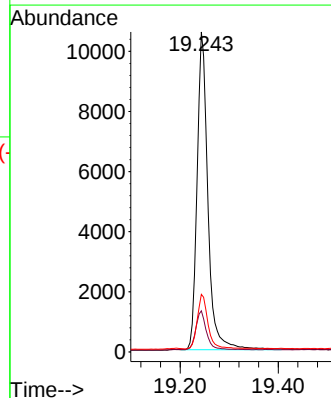
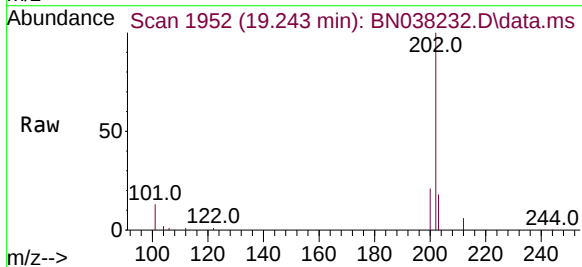
RT: 19.243 min Scan# 1952

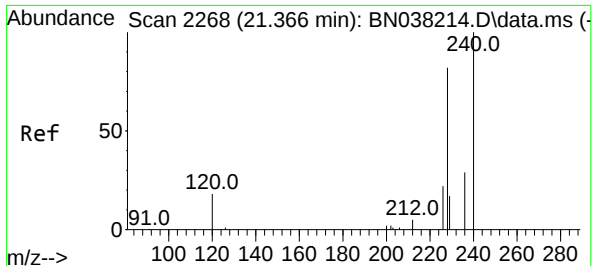
Delta R.T. -0.005 min

Lab File: BN038232.D

Acq: 01 Dec 2025 19:04

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 202   | Resp: | 16190 |
| Ion Ratio | Lower | Upper |       |
| 202       | 100   |       |       |
| 101       | 11.9  | 9.8   | 14.6  |
| 203       | 17.2  | 13.6  | 20.4  |





#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.366 min Scan# 21

Delta R.T. 0.000 min

Lab File: BN038232.D

Acq: 01 Dec 2025 19:04

Instrument :

BNA\_N

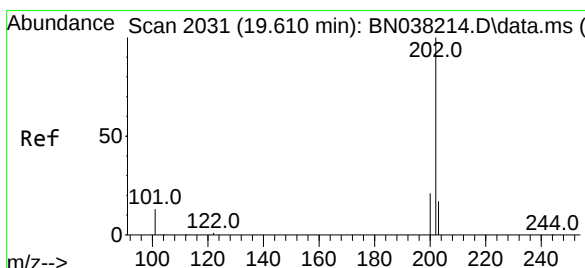
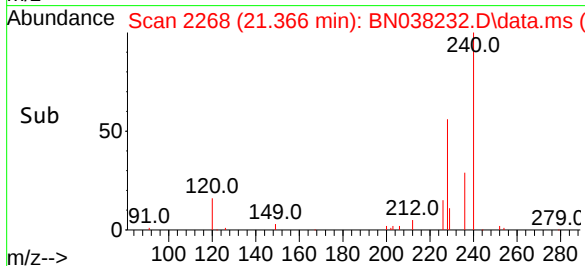
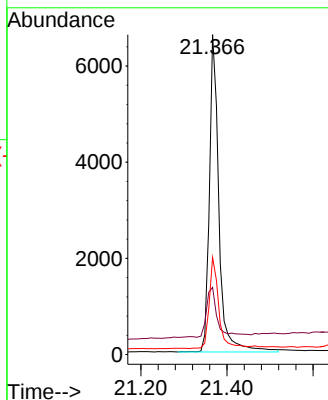
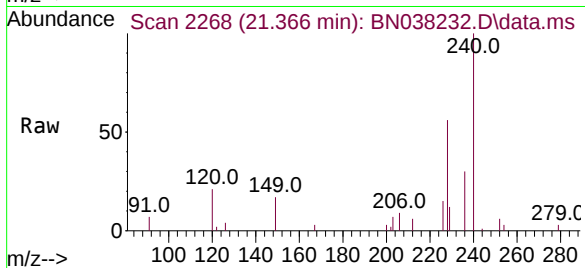
ClientSampleId :

PB170712BS

|             |       |           |
|-------------|-------|-----------|
| Tgt Ion:240 | Resp: | 1014      |
| Ion Ratio   | Lower | Upper     |
| 240         | 100   |           |
| 120         | 21.0  | 18.1 27.1 |
| 236         | 30.4  | 24.2 36.4 |

Manual Integrations  
APPROVED

Reviewed By :Jagrut Upadhyay 12/02/2025  
Supervised By :mohammad ahmed 12/03/2025



#30

Pyrene

Concen: 0.319 ng

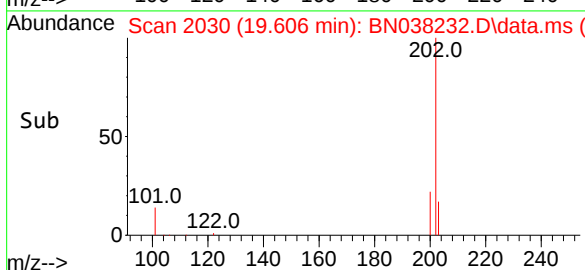
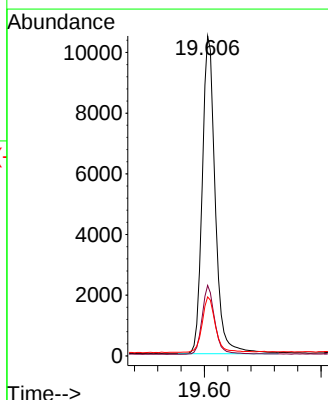
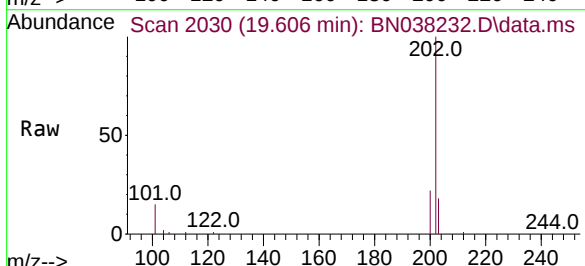
RT: 19.606 min Scan# 2030

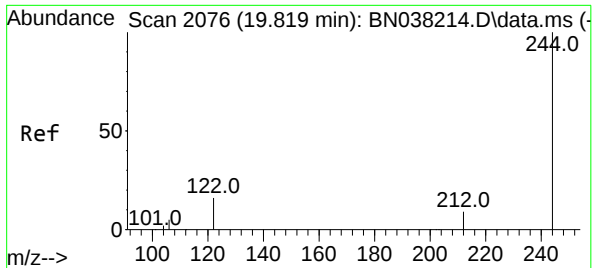
Delta R.T. -0.005 min

Lab File: BN038232.D

Acq: 01 Dec 2025 19:04

|             |       |           |
|-------------|-------|-----------|
| Tgt Ion:202 | Resp: | 16181     |
| Ion Ratio   | Lower | Upper     |
| 202         | 100   |           |
| 200         | 20.9  | 16.8 25.2 |
| 203         | 17.8  | 14.4 21.6 |





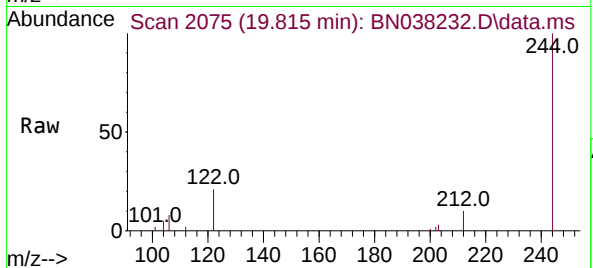
#31  
Terphenyl-d14  
Concen: 0.363 ng  
RT: 19.815 min Scan# 2075  
Delta R.T. -0.005 min  
Lab File: BN038232.D  
Acq: 01 Dec 2025 19:04

Instrument :

BNA\_N

ClientSampleId :

PB170712BS

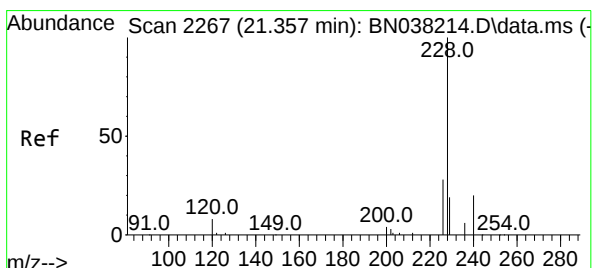
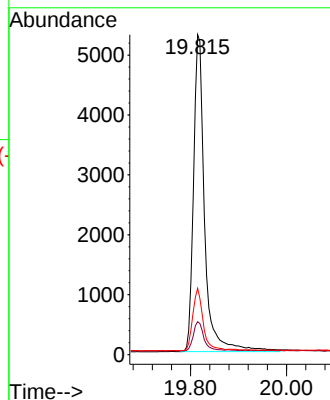
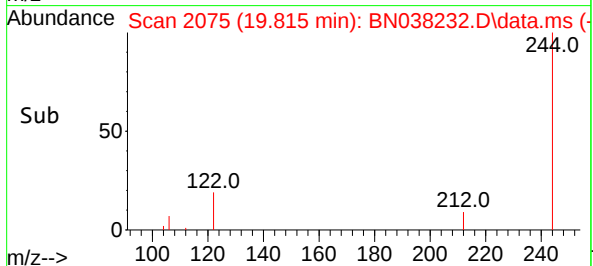


Tgt Ion:244 Resp: 8499  
Ion Ratio Lower Upper  
244 100  
212 10.3 7.7 11.5  
122 20.7 13.6 20.4

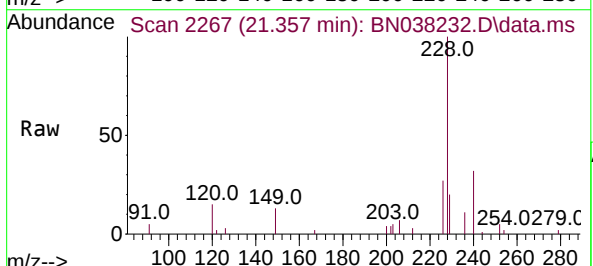
Manual Integrations

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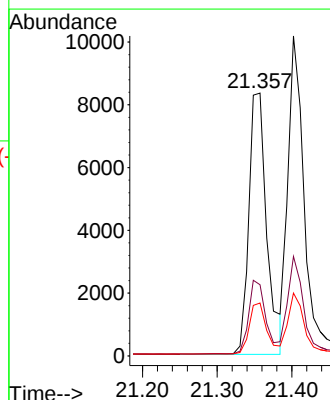
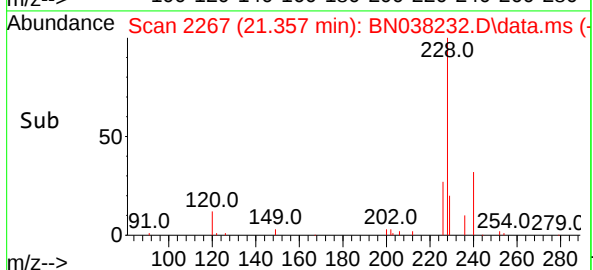
Reviewed By :Jagrut Upadhyay 12/02/2025  
Supervised By :mohammad ahmed 12/03/2025

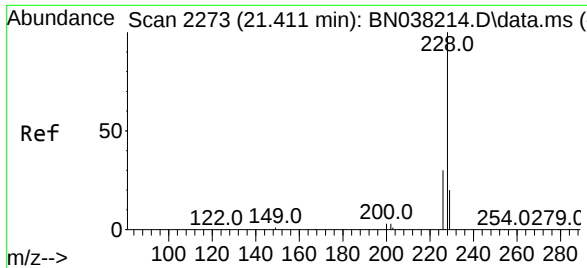


#32  
Benzo(a)anthracene  
Concen: 0.405 ng  
RT: 21.357 min Scan# 2267  
Delta R.T. 0.000 min  
Lab File: BN038232.D  
Acq: 01 Dec 2025 19:04



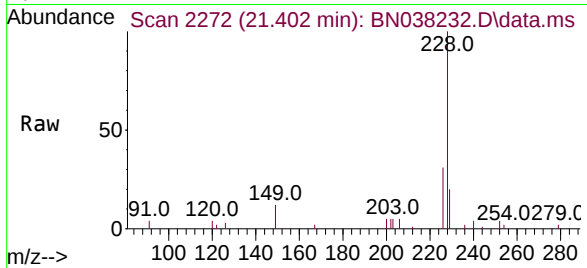
Tgt Ion:228 Resp: 13901  
Ion Ratio Lower Upper  
228 100  
226 27.1 22.6 33.8  
229 20.1 15.8 23.8





#33  
Chrysene  
Concen: 0.386 ng  
RT: 21.402 min Scan# 21  
Delta R.T. -0.009 min  
Lab File: BN038232.D  
Acq: 01 Dec 2025 19:04

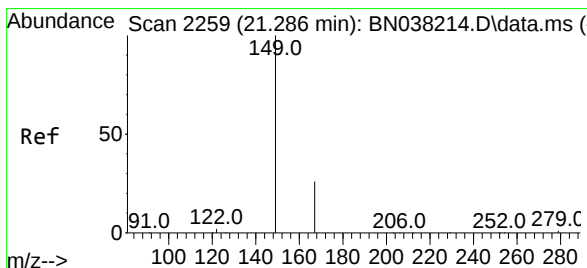
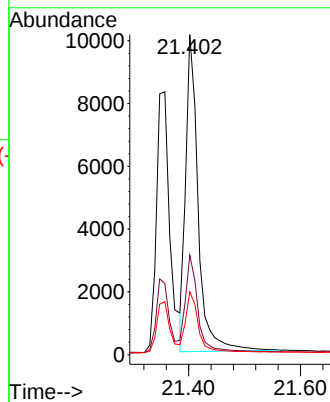
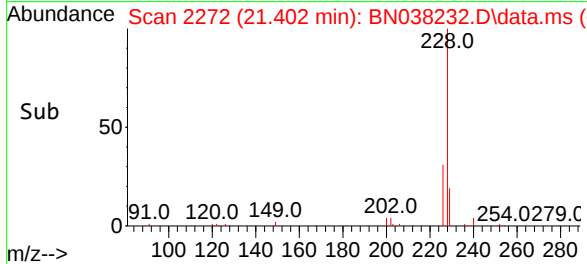
Instrument :  
BNA\_N  
ClientSampleId :  
PB170712BS



Tgt Ion:228 Resp: 1564  
Ion Ratio Lower Upper  
228 100  
226 31.1 23.8 35.8  
229 19.6 16.1 24.1

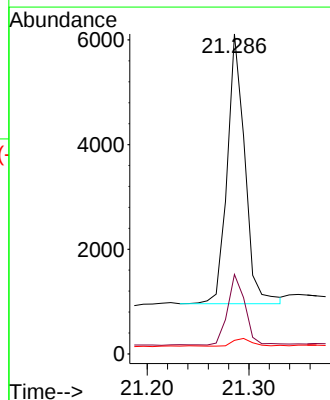
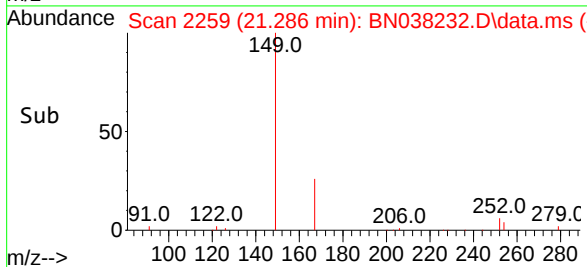
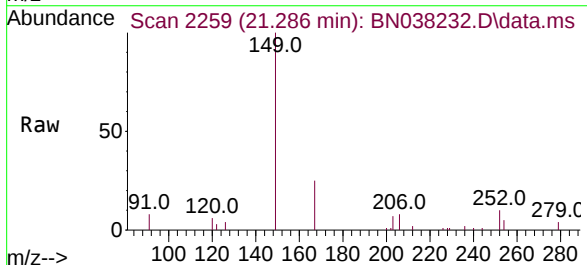
Manual Integrations  
**APPROVED**

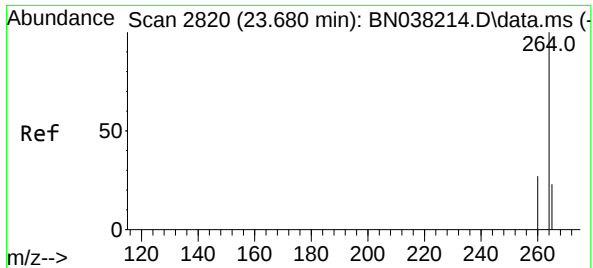
Reviewed By :Jagrut Upadhyay 12/02/2025  
Supervised By :mohammad ahmed 12/03/2025



#34  
Bis(2-ethylhexyl)phthalate  
Concen: 0.331 ng  
RT: 21.286 min Scan# 2259  
Delta R.T. 0.000 min  
Lab File: BN038232.D  
Acq: 01 Dec 2025 19:04

Tgt Ion:149 Resp: 6216  
Ion Ratio Lower Upper  
149 100  
167 25.8 20.7 31.1  
279 3.1 2.5 3.7





#35

Perylene-d12

Concen: 0.400 ng

RT: 23.674 min Scan# 2818

Delta R.T. -0.006 min

Lab File: BN038232.D

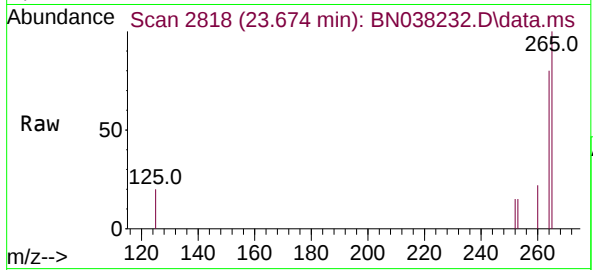
Acq: 01 Dec 2025 19:04

Instrument :

BNA\_N

ClientSampleId :

PB170712BS



Tgt Ion:264 Resp: 10375

Ion Ratio Lower Upper

264 100

260 28.0 21.7 32.5

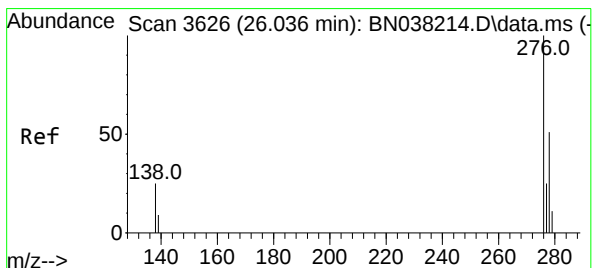
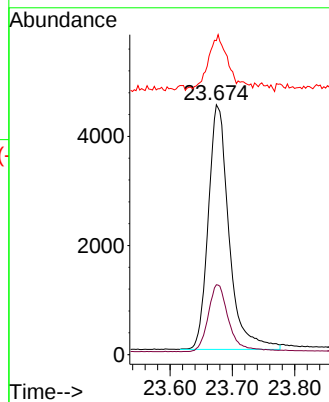
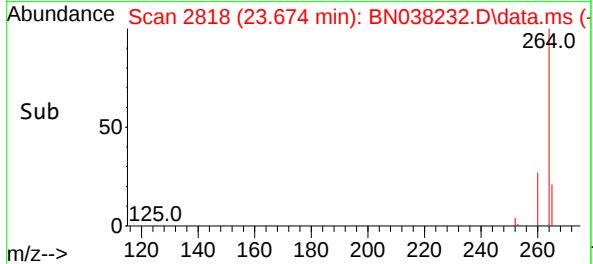
265 125.7 98.0 147.0

Manual Integrations

APPROVED

Reviewed By :Jagrut Upadhyay 12/02/2025

Supervised By :mohammad ahmed 12/03/2025



#36

Indeno(1,2,3-cd)pyrene

Concen: 0.429 ng

RT: 26.028 min Scan# 3623

Delta R.T. -0.009 min

Lab File: BN038232.D

Acq: 01 Dec 2025 19:04

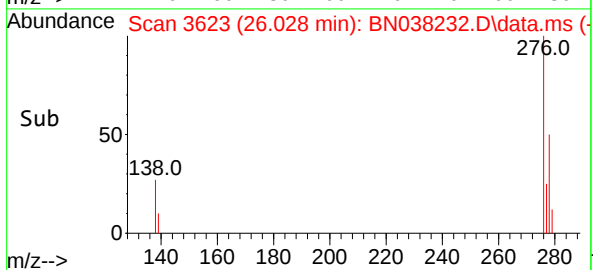
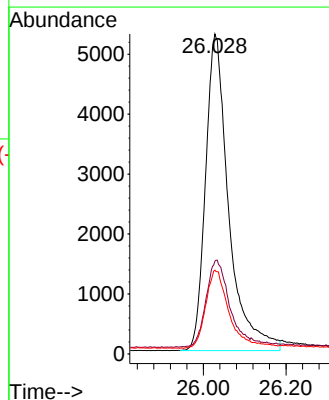
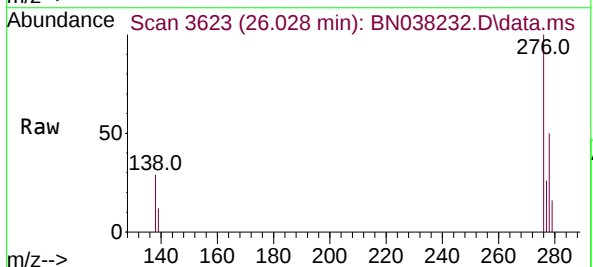
Tgt Ion:276 Resp: 20586

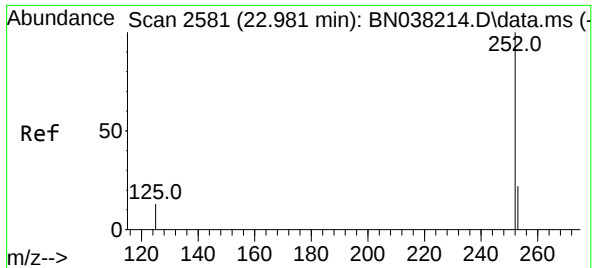
Ion Ratio Lower Upper

276 100

138 28.8 21.4 32.2

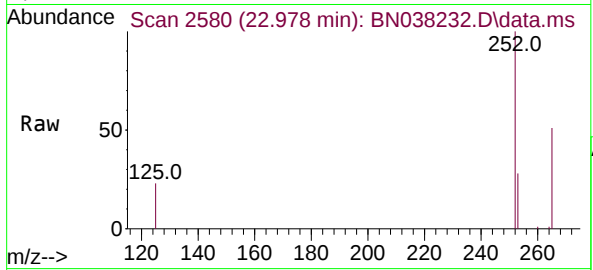
277 25.4 19.1 28.7





#37  
Benzo(b)fluoranthene  
Concen: 0.377 ng  
RT: 22.978 min Scan# 2581  
Delta R.T. -0.003 min  
Lab File: BN038232.D  
Acq: 01 Dec 2025 19:04

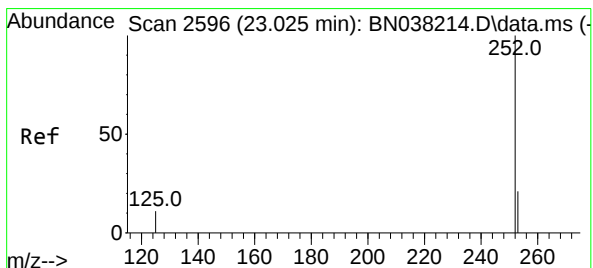
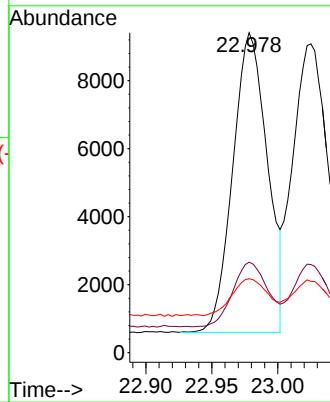
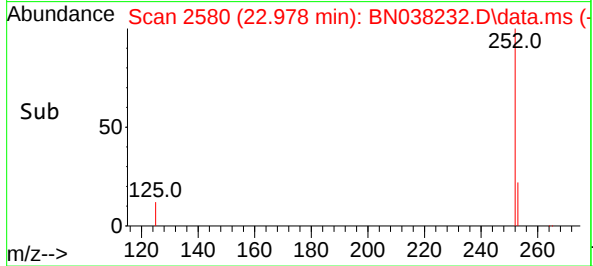
Instrument :  
BNA\_N  
ClientSampleId :  
PB170712BS



Tgt Ion:252 Resp: 16065  
Ion Ratio Lower Upper  
252 100  
253 28.3 22.2 33.4  
125 23.1 18.0 27.0

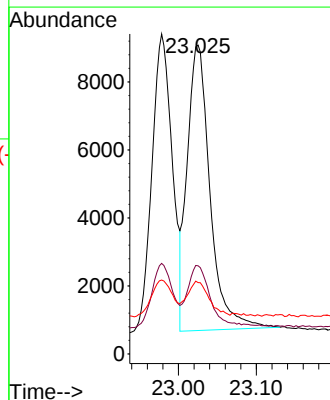
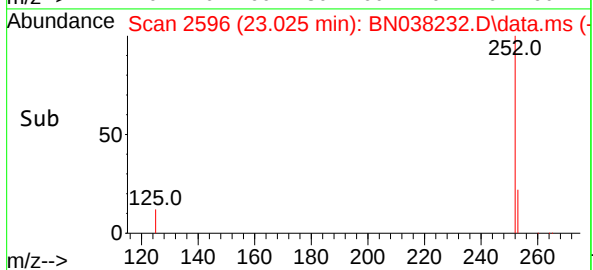
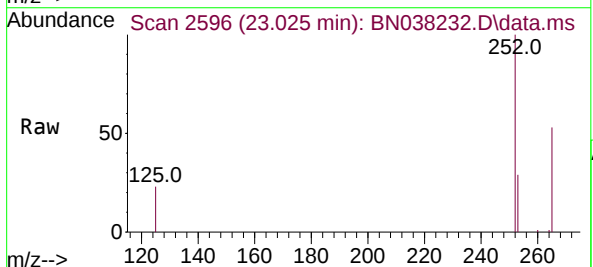
Manual Integrations  
APPROVED

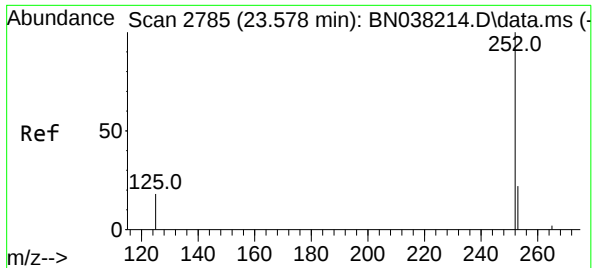
Reviewed By :Jagrut Upadhyay 12/02/2025  
Supervised By :mohammad ahmed 12/03/2025



#38  
Benzo(k)fluoranthene  
Concen: 0.387 ng  
RT: 23.025 min Scan# 2596  
Delta R.T. 0.000 min  
Lab File: BN038232.D  
Acq: 01 Dec 2025 19:04

Tgt Ion:252 Resp: 17114  
Ion Ratio Lower Upper  
252 100  
253 28.5 22.4 33.6  
125 23.1 17.5 26.3





#39

Benzo(a)pyrene

Concen: 0.410 ng

RT: 23.575 min Scan# 21

Delta R.T. -0.003 min

Lab File: BN038232.D

Acq: 01 Dec 2025 19:04

Instrument :

BNA\_N

ClientSampleId :

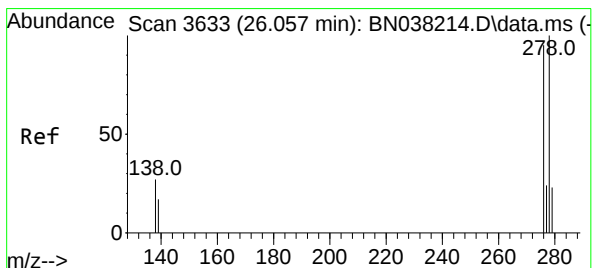
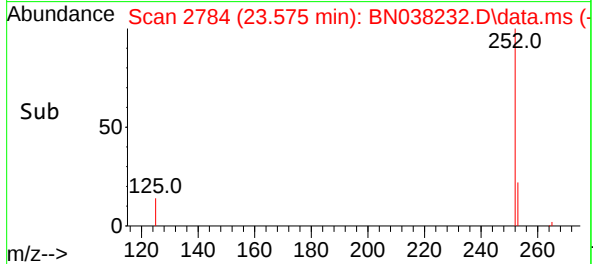
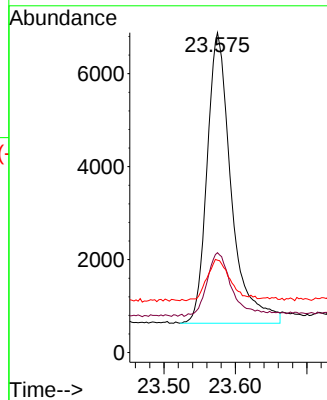
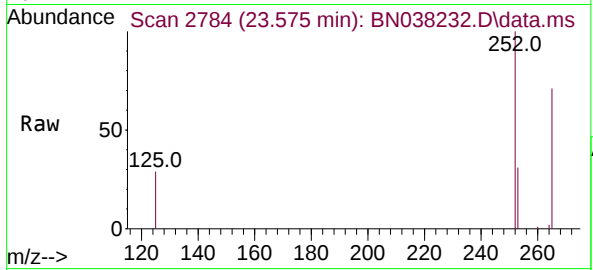
PB170712BS

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 252   | Resp: | 14650 |
| Ion Ratio | Lower | Upper |       |
| 252       | 100   |       |       |
| 253       | 31.2  | 25.3  | 37.9  |
| 125       | 28.9  | 25.2  | 37.8  |

Manual Integrations

APPROVED

Reviewed By :Jagrut Upadhyay 12/02/2025  
Supervised By :mohammad ahmed 12/03/2025



#40

Dibenzo(a,h)anthracene

Concen: 0.435 ng

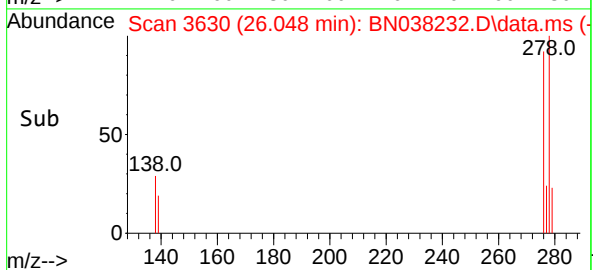
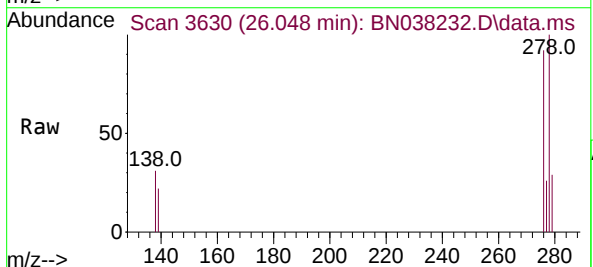
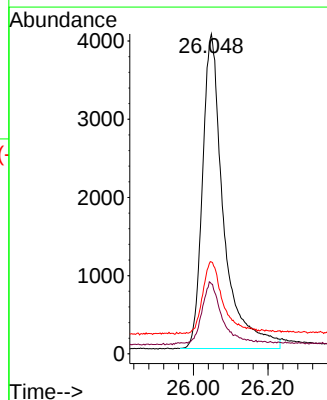
RT: 26.048 min Scan# 3630

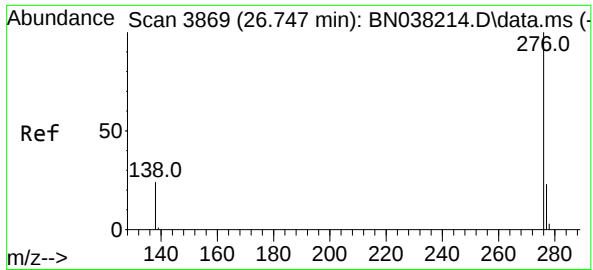
Delta R.T. -0.009 min

Lab File: BN038232.D

Acq: 01 Dec 2025 19:04

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 278   | Resp: | 15805 |
| Ion Ratio | Lower | Upper |       |
| 278       | 100   |       |       |
| 139       | 21.8  | 17.6  | 26.4  |
| 279       | 28.7  | 24.2  | 36.4  |





#41

Benzo(g,h,i)perylene

Concen: 0.416 ng

RT: 26.741 min Scan# 3867

Delta R.T. -0.006 min

Lab File: BN038232.D

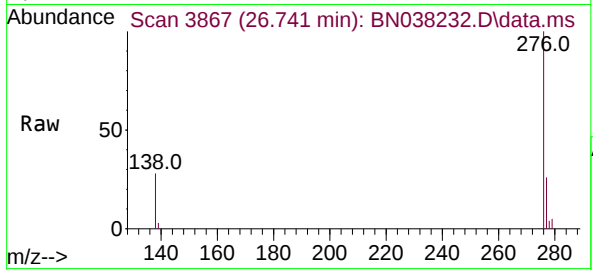
Acq: 01 Dec 2025 19:04

Instrument :

BNA\_N

ClientSampleId :

PB170712BS



Tgt Ion: 276 Resp: 18052

Ion Ratio Lower Upper

276 100

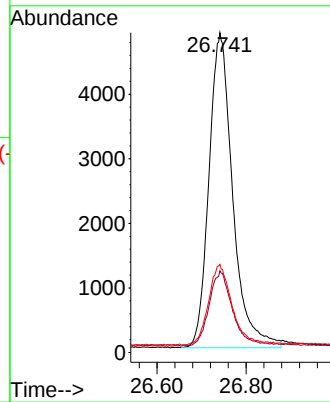
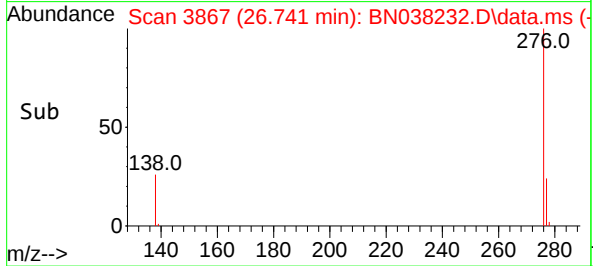
277 25.6 20.2 30.2

138 27.6 20.8 31.2

Manual Integrations

APPROVED

Reviewed By :Jagrut Upadhyay 12/02/2025  
Supervised By :mohammad ahmed 12/03/2025





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

## Report of Analysis

|                    |                               |                 |                |
|--------------------|-------------------------------|-----------------|----------------|
| Client:            | Tetra Tech NUS, Inc.          | Date Collected: |                |
| Project:           | NWIRP Bethpage 112G08005-WE13 | Date Received:  |                |
| Client Sample ID:  | PB170712BSD                   | SDG No.:        | Q3691          |
| Lab Sample ID:     | PB170712BSD                   | Matrix:         | Water          |
| Analytical Method: | SW8270ESIM                    | % Solid:        | 0              |
| Sample Wt/Vol:     | 1000 mL                       | Test:           | SVOC-SIMGroup1 |
| Prep Method :      | 3510C                         |                 |                |
|                    | Level: LOW                    |                 |                |
|                    | Final Vol: 1000 uL            |                 |                |
|                    | Prep Date: 11/21/25           |                 |                |

| CAS Number                | Parameter               | Conc.             | Qua. | DF | MDL      | LOD  | LOQ / CRQL | Units    | Date Ana.      | Prep BatchID |
|---------------------------|-------------------------|-------------------|------|----|----------|------|------------|----------|----------------|--------------|
| <b>TARGETS</b>            |                         |                   |      |    |          |      |            |          |                |              |
| 123-91-1                  | 1,4-Dioxane             | 0.30              |      | 1  | 0.070    | 0.20 | 0.20       | ug/L     | 12/01/25 22:42 | PB170712     |
| <b>SURROGATES</b>         |                         |                   |      |    |          |      |            |          |                |              |
| 7297-45-2                 | 2-Methylnaphthalene-d10 | 0.35              |      |    | 30 - 150 |      | 86%        | SPK: 0.4 |                |              |
| 93951-69-0                | Fluoranthene-d10        | 0.39              |      |    | 30 - 150 |      | 97%        | SPK: 0.4 |                |              |
| 4165-60-0                 | Nitrobenzene-d5         | 0.40              |      |    | 55 - 111 |      | 100%       | SPK: 0.4 |                |              |
| 321-60-8                  | 2-Fluorobiphenyl        | 0.43              | *    |    | 53 - 106 |      | 107%       | SPK: 0.4 |                |              |
| 1718-51-0                 | Terphenyl-d14           | 0.32              |      |    | 58 - 132 |      | 79%        | SPK: 0.4 |                |              |
| <b>INTERNAL STANDARDS</b> |                         |                   |      |    |          |      |            |          |                |              |
|                           |                         | <b>Area Count</b> |      |    |          |      |            |          |                |              |
| 3855-82-1                 | 1,4-Dichlorobenzene-d4  | 9080              |      |    |          |      |            |          |                |              |
| 1146-65-2                 | Naphthalene-d8          | 25100             |      |    |          |      |            |          |                |              |
| 15067-26-2                | Acenaphthene-d10        | 10800             |      |    |          |      |            |          |                |              |
| 1517-22-2                 | Phenanthrene-d10        | 16100             |      |    |          |      |            |          |                |              |
| 1719-03-5                 | Chrysene-d12            | 14000             |      |    |          |      |            |          |                |              |
| 1520-96-3                 | Perylene-d12            | 15900             |      |    |          |      |            |          |                |              |

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\BN120125\  
 Data File : BN038238.D  
 Acq On : 01 Dec 2025 22:42  
 Operator : RC/JU  
 Sample : PB170712BSD  
 Misc :  
 ALS Vial : 10 Sample Multiplier: 1

Instrument :  
 BNA\_N  
 ClientSampleId :  
 PB170712BSD

Quant Time: Dec 04 12:03:40 2025  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\8270-SIM-BN112725.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Fri Nov 28 21:04:10 2025  
 Response via : Initial Calibration

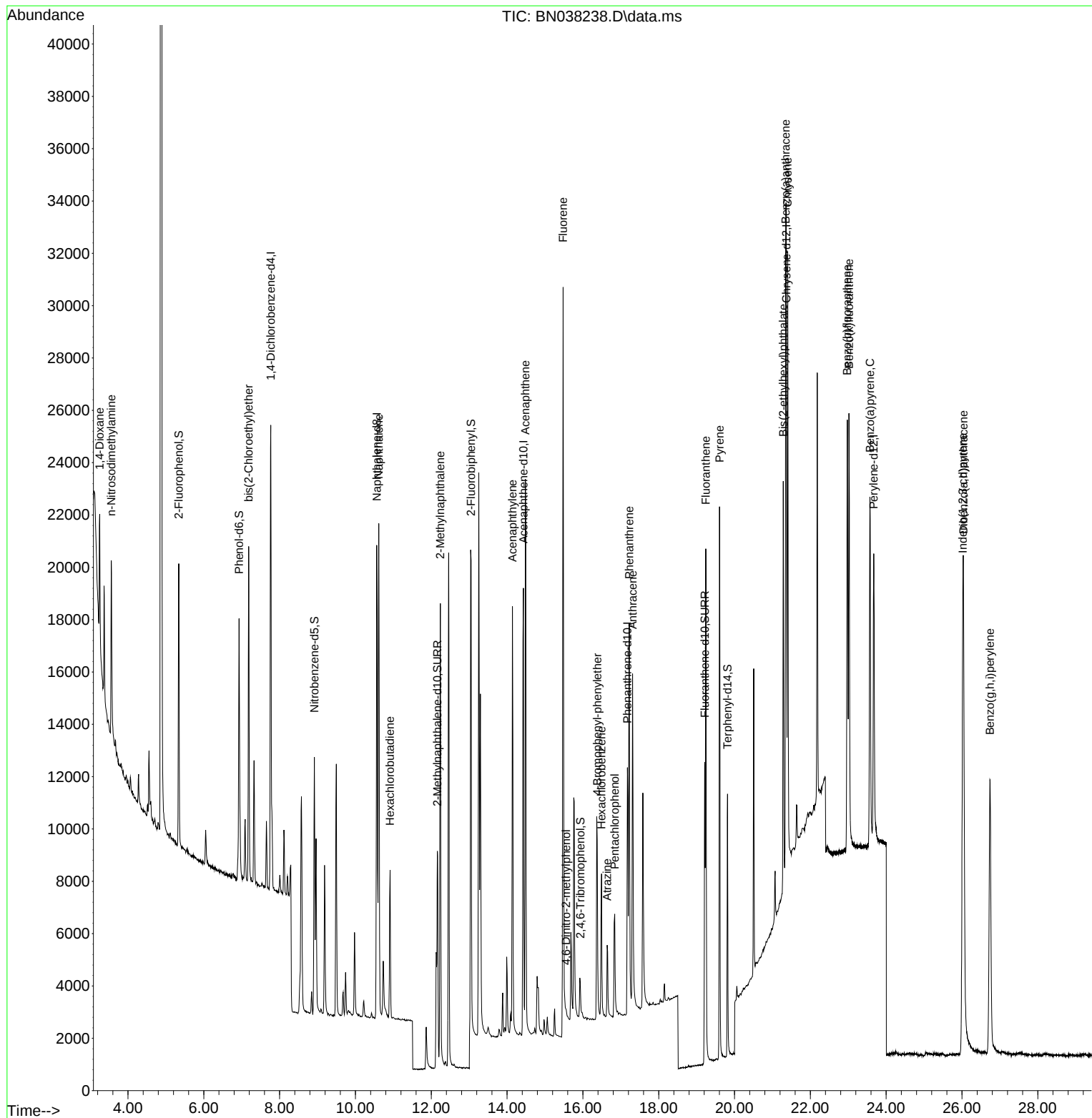
| Compound                      | R.T.   | QIon | Response | Conc  | Units | Dev(Min) |
|-------------------------------|--------|------|----------|-------|-------|----------|
| Internal Standards            |        |      |          |       |       |          |
| 1) 1,4-Dichlorobenzene-d4     | 7.768  | 152  | 9081     | 0.400 | ng    | 0.00     |
| 7) Naphthalene-d8             | 10.562 | 136  | 25072    | 0.400 | ng    | #-0.01   |
| 13) Acenaphthene-d10          | 14.430 | 164  | 10824    | 0.400 | ng    | 0.00     |
| 19) Phenanthrene-d10          | 17.173 | 188  | 16101    | 0.400 | ng    | #-0.01   |
| 29) Chrysene-d12              | 21.366 | 240  | 14003    | 0.400 | ng    | 0.00     |
| 35) Perylene-d12              | 23.671 | 264  | 15858    | 0.400 | ng    | # 0.00   |
| System Monitoring Compounds   |        |      |          |       |       |          |
| 4) 2-Fluorophenol             | 5.341  | 112  | 8650     | 0.408 | ng    | 0.00     |
| 5) Phenol-d6                  | 6.930  | 99   | 9418     | 0.355 | ng    | 0.00     |
| 8) Nitrobenzene-d5            | 8.918  | 82   | 8050     | 0.402 | ng    | 0.00     |
| 11) 2-Methylnaphthalene-d10   | 12.162 | 152  | 12286    | 0.345 | ng    | 0.00     |
| 14) 2,4,6-Tribromophenol      | 15.932 | 330  | 1178     | 0.346 | ng    | 0.00     |
| 15) 2-Fluorobiphenyl          | 13.051 | 172  | 17945    | 0.429 | ng    | 0.00     |
| 27) Fluoranthene-d10          | 19.215 | 212  | 13574    | 0.389 | ng    | 0.00     |
| 31) Terphenyl-d14             | 19.815 | 244  | 10255    | 0.317 | ng    | 0.00     |
| Target Compounds              |        |      |          |       |       |          |
| 2) 1,4-Dioxane                | 3.254  | 88   | 2880     | 0.301 | ng    | # 65     |
| 3) n-Nitrosodimethylamine     | 3.557  | 42   | 4504     | 0.382 | ng    | # 97     |
| 6) bis(2-Chloroethyl)ether    | 7.183  | 93   | 9517     | 0.375 | ng    | 96       |
| 9) Naphthalene                | 10.616 | 128  | 24829    | 0.357 | ng    | 100      |
| 10) Hexachlorobutadiene       | 10.915 | 225  | 4570     | 0.386 | ng    | # 99     |
| 12) 2-Methylnaphthalene       | 12.238 | 142  | 13648    | 0.298 | ng    | 98       |
| 16) Acenaphthylene            | 14.142 | 152  | 18881    | 0.390 | ng    | 100      |
| 17) Acenaphthene              | 14.484 | 154  | 11726    | 0.348 | ng    | 98       |
| 18) Fluorene                  | 15.478 | 166  | 14142    | 0.324 | ng    | 99       |
| 20) 4,6-Dinitro-2-methylph... | 15.560 | 198  | 159      | 0.266 | ng    | # 58     |
| 21) 4-Bromophenyl-phenylether | 16.379 | 248  | 3955     | 0.355 | ng    | 99       |
| 22) Hexachlorobenzene         | 16.491 | 284  | 4649     | 0.339 | ng    | 98       |
| 23) Atrazine                  | 16.640 | 200  | 2811     | 0.395 | ng    | # 93     |
| 24) Pentachlorophenol         | 16.838 | 266  | 2524     | 0.671 | ng    | 99       |
| 25) Phenanthrene              | 17.223 | 178  | 17571    | 0.348 | ng    | 98       |
| 26) Anthracene                | 17.310 | 178  | 16311    | 0.378 | ng    | 99       |
| 28) Fluoranthene              | 19.243 | 202  | 18836    | 0.387 | ng    | 100      |
| 30) Pyrene                    | 19.606 | 202  | 19886    | 0.284 | ng    | 99       |
| 32) Benzo(a)anthracene        | 21.349 | 228  | 19111    | 0.403 | ng    | 99       |
| 33) Chrysene                  | 21.402 | 228  | 20271    | 0.362 | ng    | 99       |
| 34) Bis(2-ethylhexyl)phtha... | 21.286 | 149  | 11826    | 0.455 | ng    | # 98     |
| 36) Indeno(1,2,3-cd)pyrene    | 26.022 | 276  | 28125    | 0.383 | ng    | 99       |
| 37) Benzo(b)fluoranthene      | 22.975 | 252  | 21654    | 0.333 | ng    | 98       |
| 38) Benzo(k)fluoranthene      | 23.019 | 252  | 22543    | 0.333 | ng    | 99       |
| 39) Benzo(a)pyrene            | 23.572 | 252  | 21487    | 0.394 | ng    | 94       |
| 40) Dibenzo(a,h)anthracene    | 26.039 | 278  | 21580    | 0.388 | ng    | 98       |
| 41) Benzo(g,h,i)perylene      | 26.735 | 276  | 23394    | 0.352 | ng    | 99       |

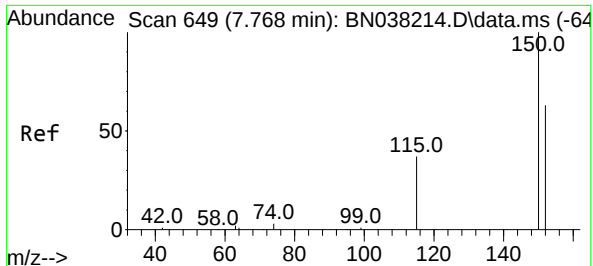
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN120125\  
 Data File : BN038238.D  
 Acq On : 01 Dec 2025 22:42  
 Operator : RC/JU  
 Sample : PB170712BSD  
 Misc :  
 ALS Vial : 10 Sample Multiplier: 1

Instrument :  
 BNA\_N  
 ClientSampleId :  
 PB170712BSD

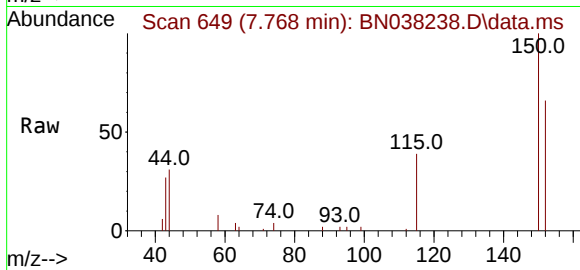
Quant Time: Dec 04 12:03:40 2025  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\8270-SIM-BN112725.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Fri Nov 28 21:04:10 2025  
 Response via : Initial Calibration



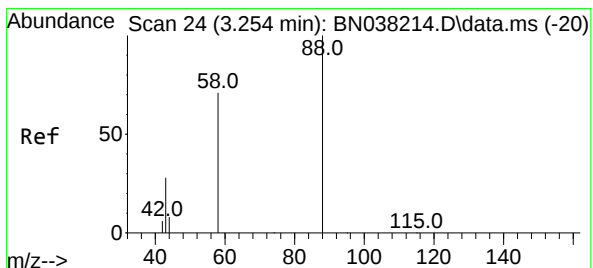
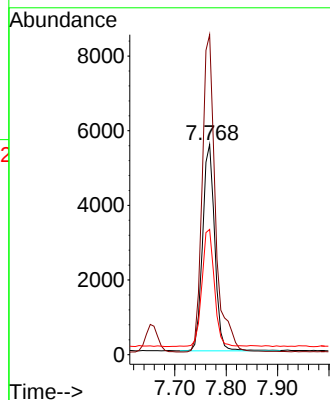
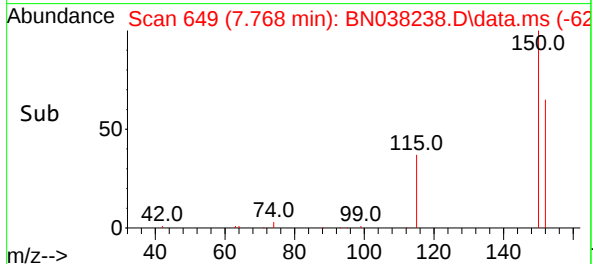


#1  
1,4-Dichlorobenzene-d4  
Concen: 0.400 ng  
RT: 7.768 min Scan# 64  
Delta R.T. -0.000 min  
Lab File: BN038238.D  
Acq: 01 Dec 2025 22:42

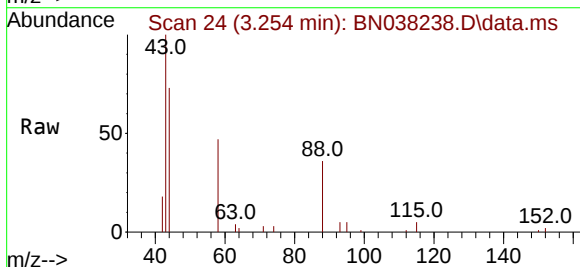
Instrument :  
BNA\_N  
ClientSampleId :  
PB170712BSD



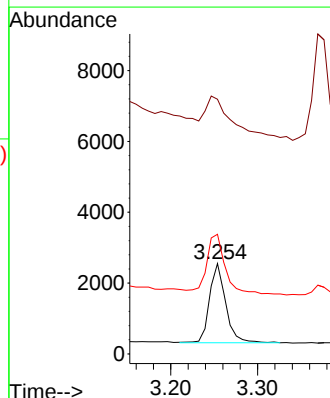
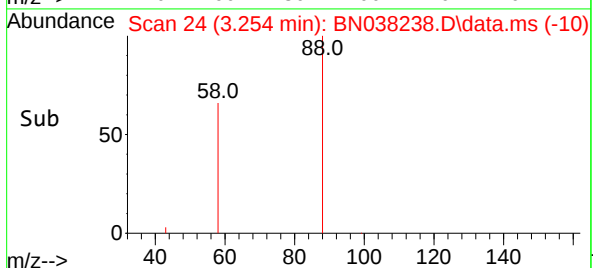
Tgt Ion:152 Resp: 9081  
Ion Ratio Lower Upper  
152 100  
150 152.2 125.3 187.9  
115 59.6 49.0 73.4

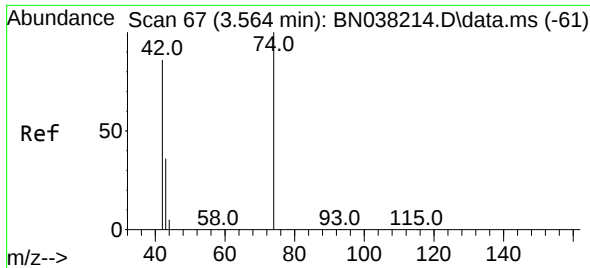


#2  
1,4-Dioxane  
Concen: 0.301 ng  
RT: 3.254 min Scan# 24  
Delta R.T. 0.000 min  
Lab File: BN038238.D  
Acq: 01 Dec 2025 22:42



Tgt Ion: 88 Resp: 2880  
Ion Ratio Lower Upper  
88 100  
43 81.3 24.8 37.2#  
58 87.1 61.1 91.7

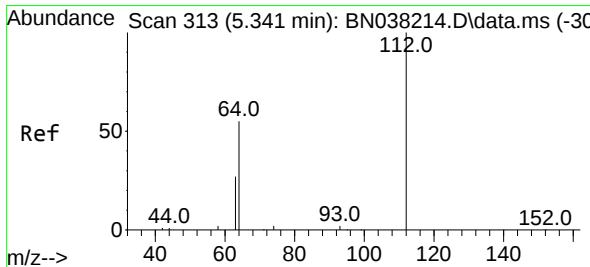
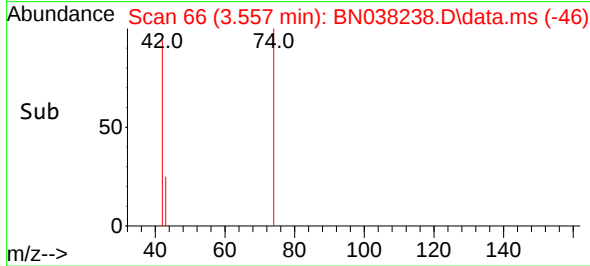
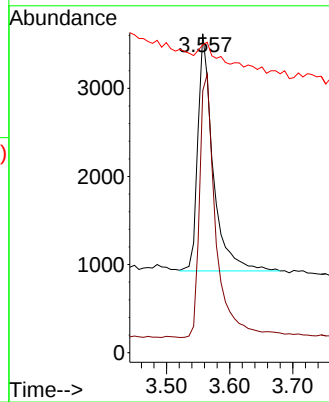
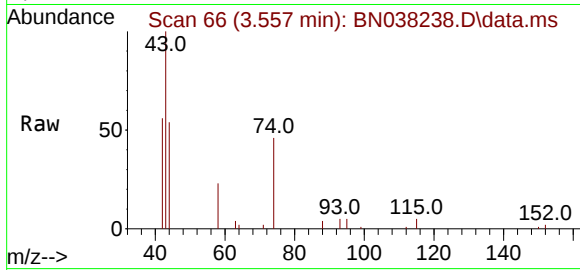




#3  
n-Nitrosodimethylamine  
Concen: 0.382 ng  
RT: 3.557 min Scan# 61  
Delta R.T. -0.007 min  
Lab File: BN038238.D  
Acq: 01 Dec 2025 22:42

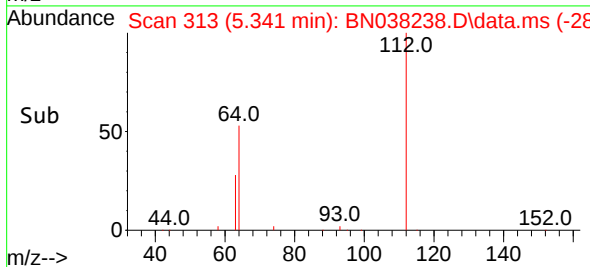
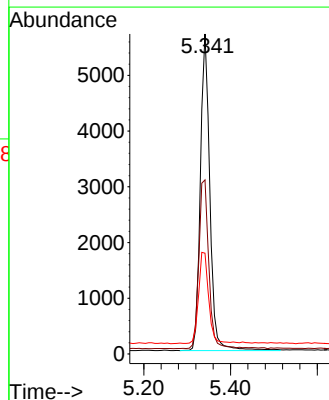
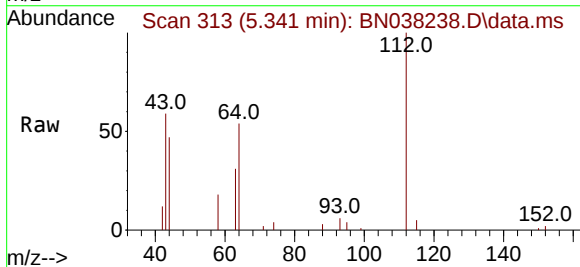
Instrument :  
BNA\_N  
ClientSampleId :  
PB170712BSD

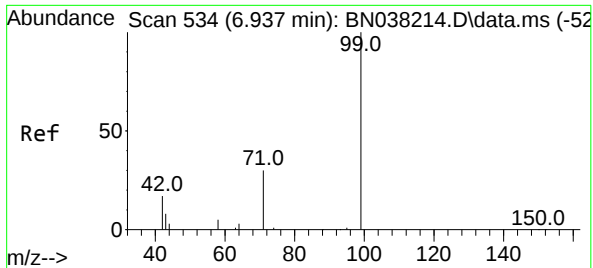
Tgt Ion: 42 Resp: 4504  
Ion Ratio Lower Upper  
42 100  
74 120.0 96.2 144.2  
44 23.7 8.0 12.0#



#4  
2-Fluorophenol  
Concen: 0.408 ng  
RT: 5.341 min Scan# 313  
Delta R.T. 0.000 min  
Lab File: BN038238.D  
Acq: 01 Dec 2025 22:42

Tgt Ion: 112 Resp: 8650  
Ion Ratio Lower Upper  
112 100  
64 56.2 45.0 67.4  
63 30.5 23.2 34.8

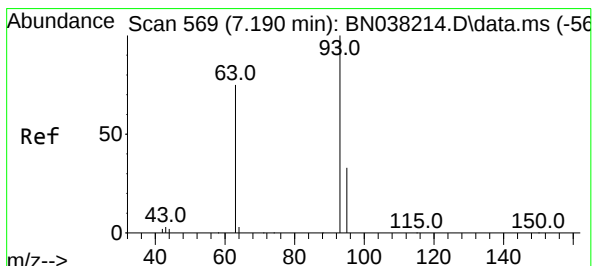
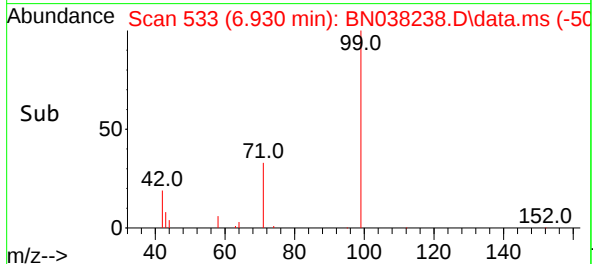
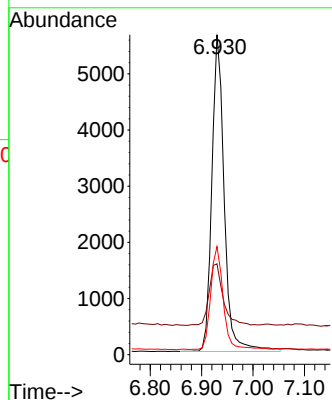
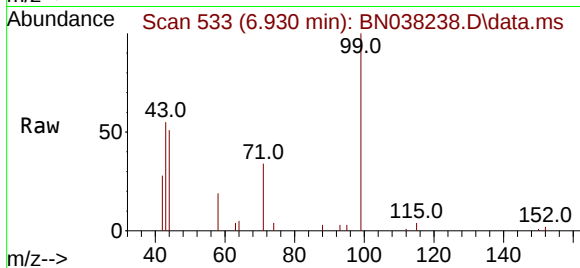




#5  
Phenol-d6  
Concen: 0.355 ng  
RT: 6.930 min Scan# 51  
Delta R.T. -0.007 min  
Lab File: BN038238.D  
Acq: 01 Dec 2025 22:42

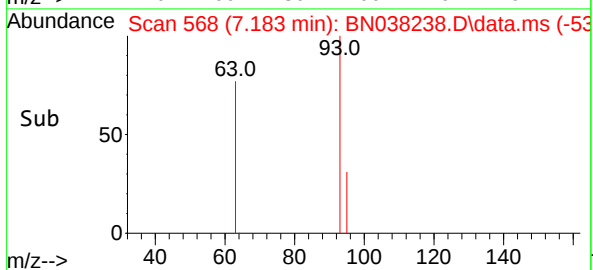
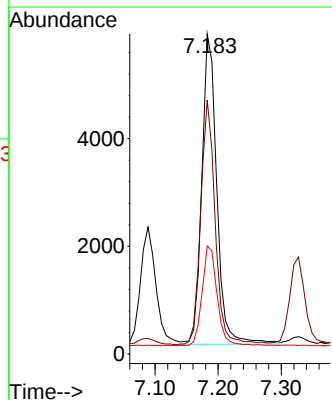
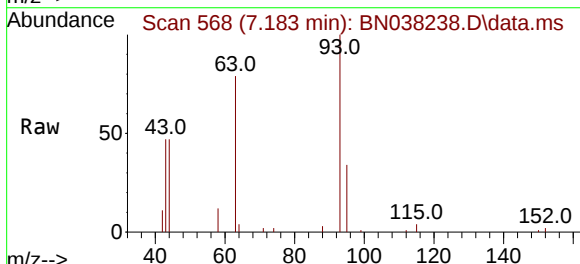
Instrument :  
BNA\_N  
ClientSampleId :  
PB170712BSD

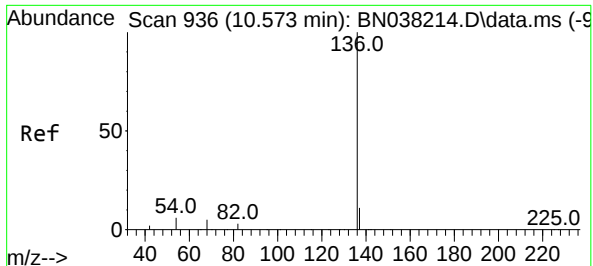
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 99    | Resp: | 9418  |
| Ion      | Ratio | Lower | Upper |
| 99       | 100   |       |       |
| 42       | 21.9  | 17.0  | 25.6  |
| 71       | 32.7  | 25.4  | 38.2  |



#6  
bis(2-Chloroethyl)ether  
Concen: 0.375 ng  
RT: 7.183 min Scan# 568  
Delta R.T. -0.007 min  
Lab File: BN038238.D  
Acq: 01 Dec 2025 22:42

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 93    | Resp: | 9517  |
| Ion      | Ratio | Lower | Upper |
| 93       | 100   |       |       |
| 63       | 76.5  | 58.1  | 87.1  |
| 95       | 32.3  | 25.1  | 37.7  |

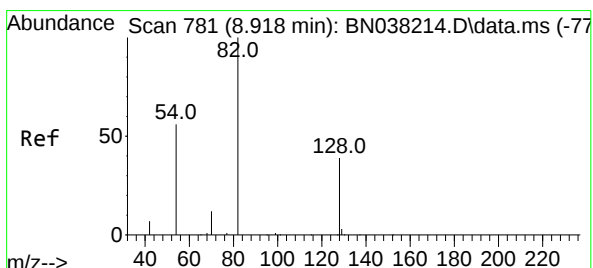
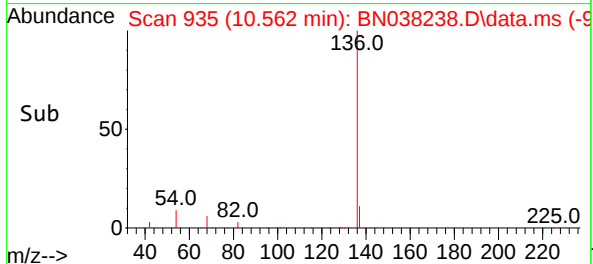
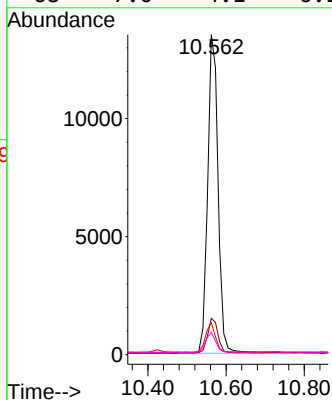
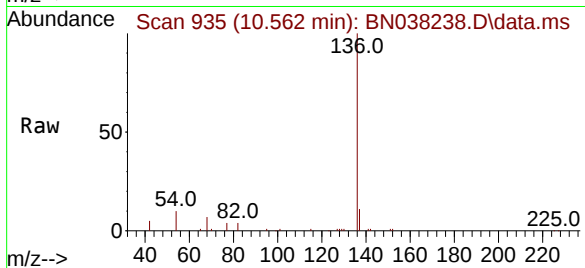




#7  
Naphthalene-d8  
Concen: 0.400 ng  
RT: 10.562 min Scan# 91  
Delta R.T. -0.011 min  
Lab File: BN038238.D  
Acq: 01 Dec 2025 22:42

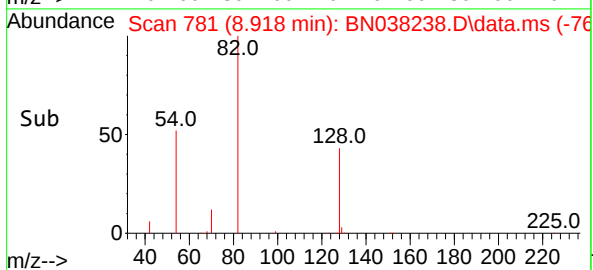
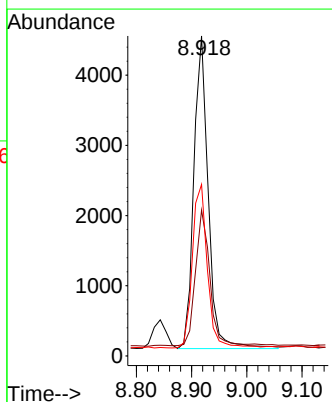
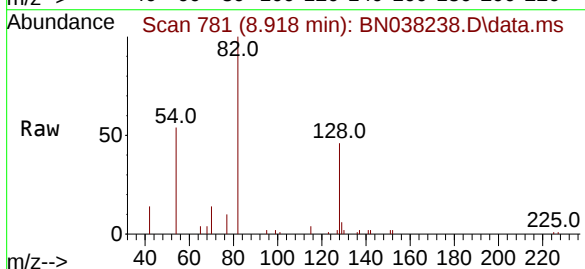
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PB170712BSD

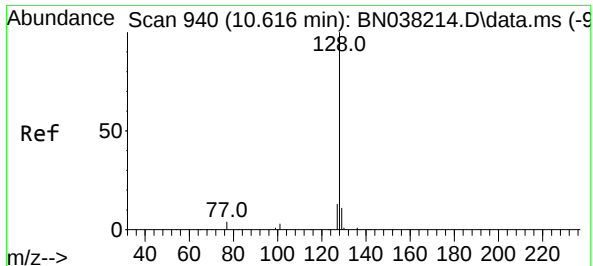
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 136   | Resp: | 25072 |
| Ion      | Ratio | Lower | Upper |
| 136      | 100   |       |       |
| 137      | 11.3  | 8.9   | 13.3  |
| 54       | 9.9   | 5.4   | 8.0#  |
| 68       | 7.0   | 4.1   | 6.1#  |



#8  
Nitrobenzene-d5  
Concen: 0.402 ng  
RT: 8.918 min Scan# 781  
Delta R.T. 0.000 min  
Lab File: BN038238.D  
Acq: 01 Dec 2025 22:42

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 82    | Resp: | 8050  |
| Ion      | Ratio | Lower | Upper |
| 82       | 100   |       |       |
| 128      | 45.6  | 32.6  | 48.8  |
| 54       | 53.6  | 45.4  | 68.0  |

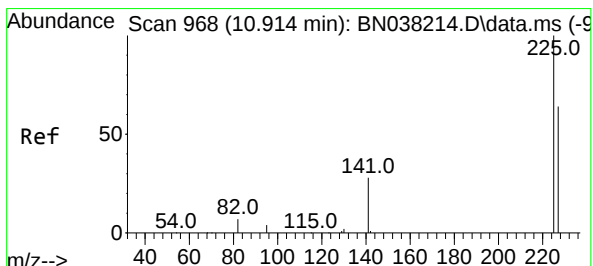
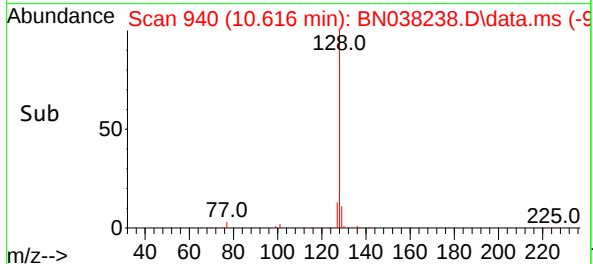
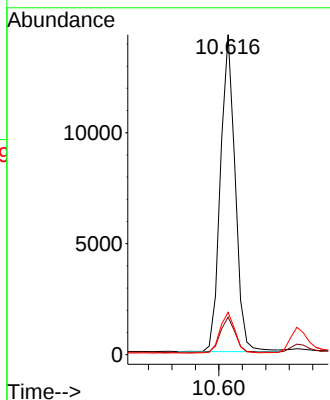
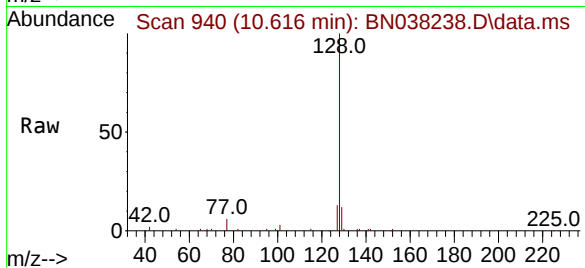




#9  
Naphthalene  
Concen: 0.357 ng  
RT: 10.616 min Scan# 940  
Delta R.T. 0.000 min  
Lab File: BN038238.D  
Acq: 01 Dec 2025 22:42

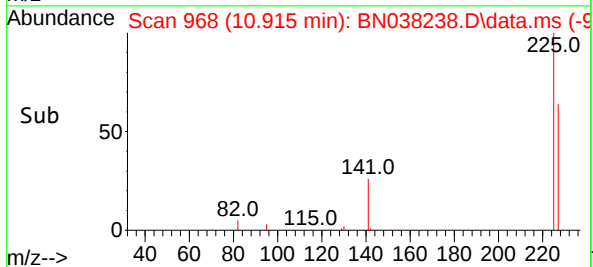
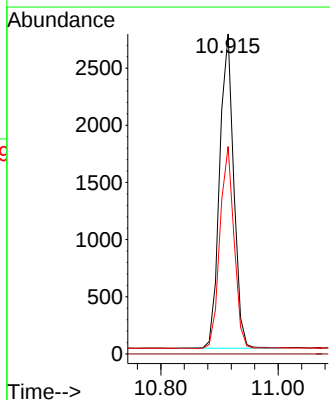
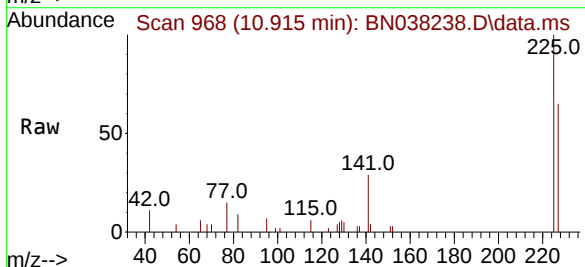
Instrument :  
BNA\_N  
ClientSampleId :  
PB170712BSD

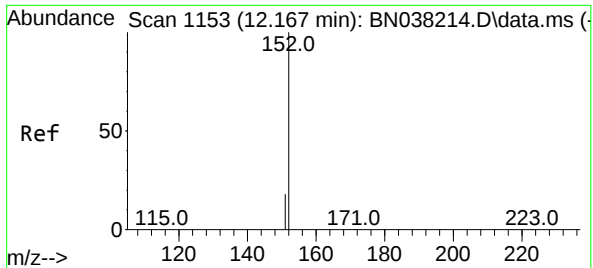
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 128     | 100   |       |       |
| 129     | 11.7  | 9.1   | 13.7  |
| 127     | 13.3  | 10.6  | 16.0  |



#10  
Hexachlorobutadiene  
Concen: 0.386 ng  
RT: 10.915 min Scan# 968  
Delta R.T. 0.000 min  
Lab File: BN038238.D  
Acq: 01 Dec 2025 22:42

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 225     | 100   |       |       |
| 223     | 0.0   | 0.0   | 0.0   |
| 227     | 64.0  | 50.5  | 75.7  |

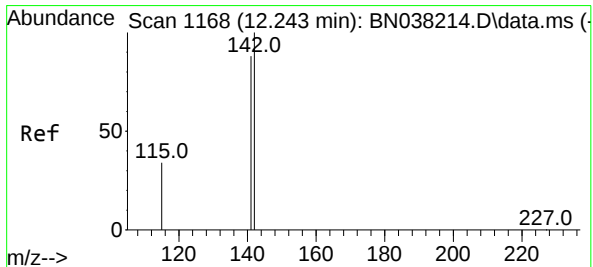
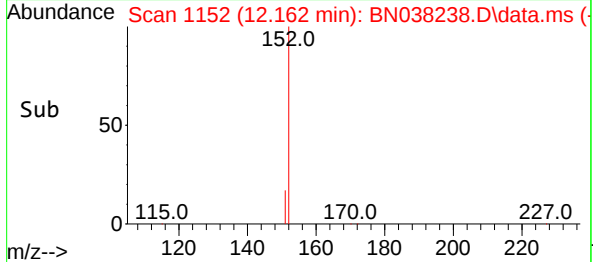
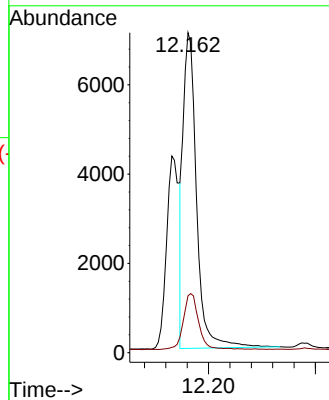
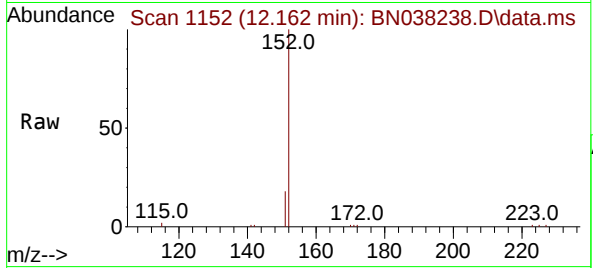




#11  
2-Methylnaphthalene-d10  
Concen: 0.345 ng  
RT: 12.162 min Scan# 1153  
Delta R.T. -0.005 min  
Lab File: BN038238.D  
Acq: 01 Dec 2025 22:42

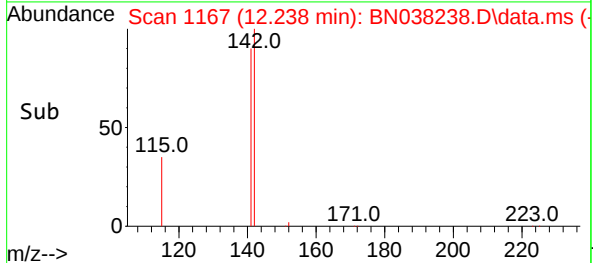
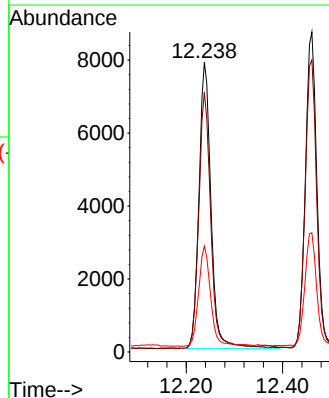
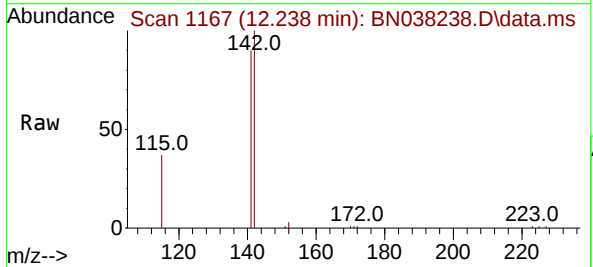
Instrument :  
BNA\_N  
ClientSampleId :  
PB170712BSD

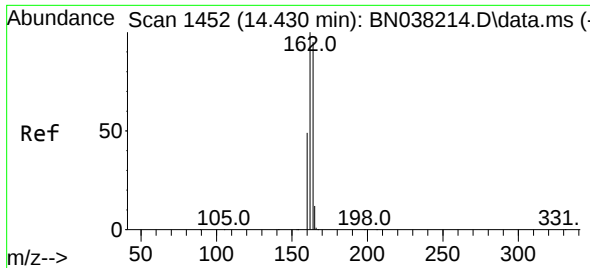
Tgt Ion:152 Resp: 12286  
Ion Ratio Lower Upper  
152 100  
151 20.1 16.7 25.1



#12  
2-Methylnaphthalene  
Concen: 0.298 ng  
RT: 12.238 min Scan# 1167  
Delta R.T. -0.005 min  
Lab File: BN038238.D  
Acq: 01 Dec 2025 22:42

Tgt Ion:142 Resp: 13648  
Ion Ratio Lower Upper  
142 100  
141 89.7 70.9 106.3  
115 36.6 27.7 41.5

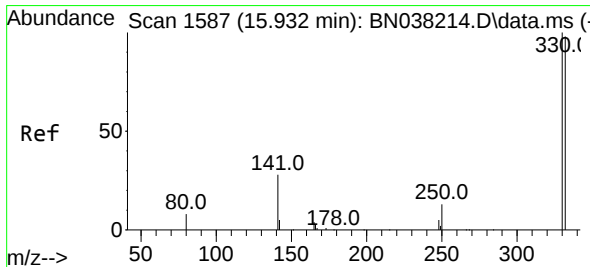
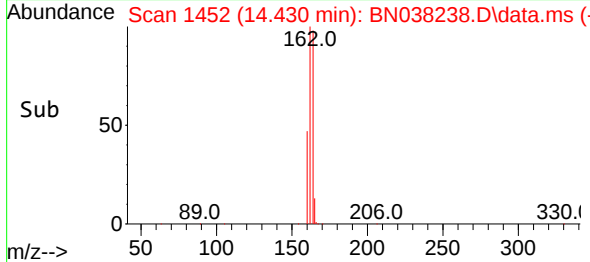
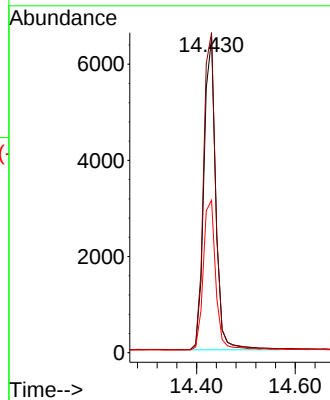
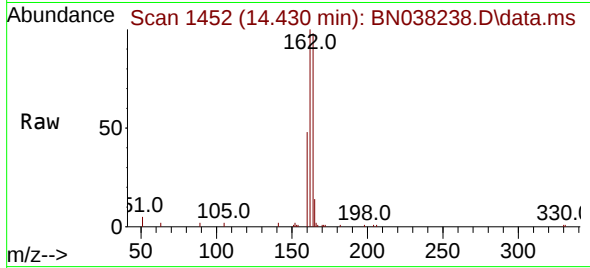




#13  
Acenaphthene-d10  
Concen: 0.400 ng  
RT: 14.430 min Scan# 1452  
Delta R.T. 0.000 min  
Lab File: BN038238.D  
Acq: 01 Dec 2025 22:42

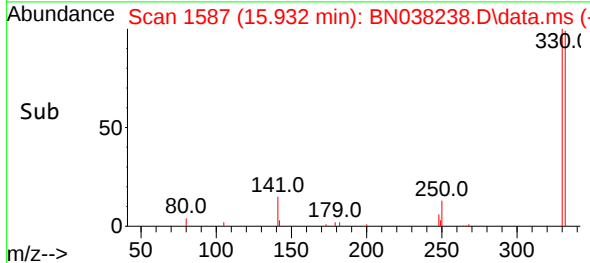
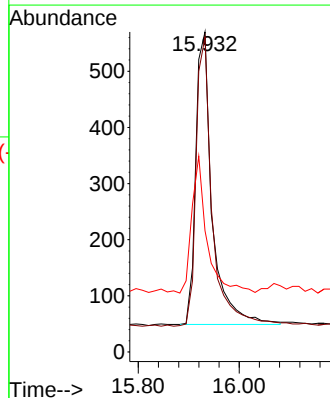
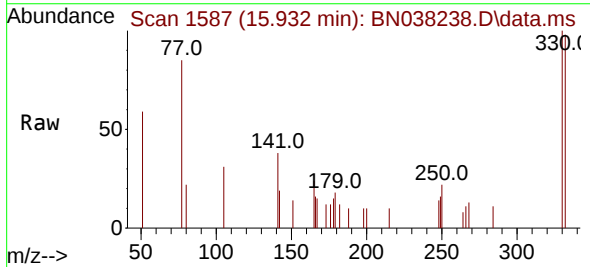
Instrument :  
BNA\_N  
ClientSampleId :  
PB170712BSD

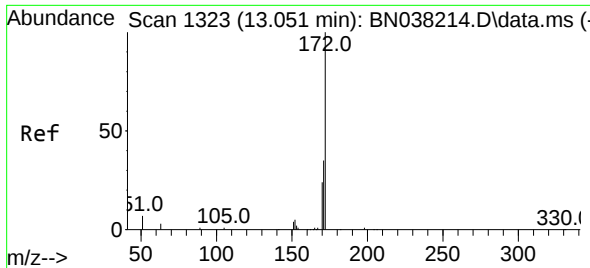
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 164     | 100   |       |       |
| 162     | 101.8 | 83.8  | 125.8 |
| 160     | 48.5  | 41.6  | 62.4  |



#14  
2,4,6-Tribromophenol  
Concen: 0.346 ng  
RT: 15.932 min Scan# 1587  
Delta R.T. 0.000 min  
Lab File: BN038238.D  
Acq: 01 Dec 2025 22:42

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 330     | 100   |       |       |
| 332     | 97.9  | 77.8  | 116.6 |
| 141     | 42.4  | 33.0  | 49.4  |

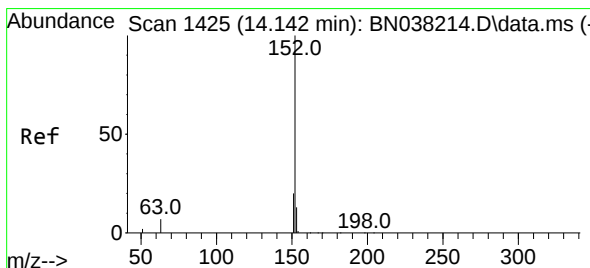
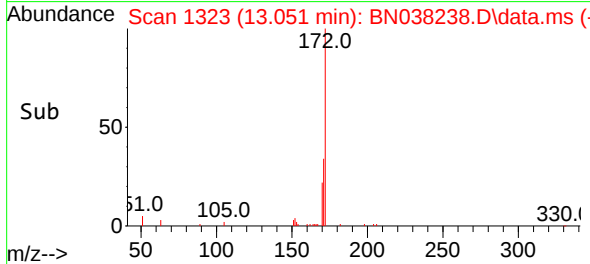
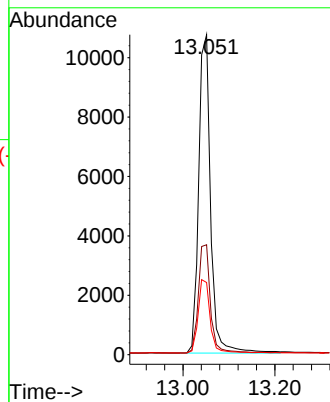
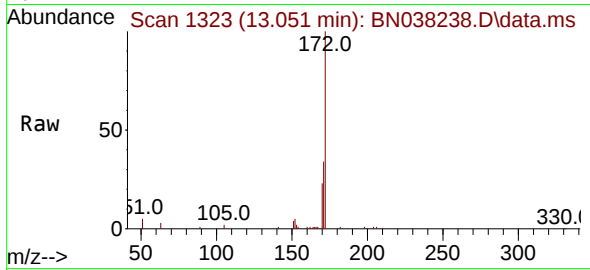




#15  
2-Fluorobiphenyl  
Concen: 0.429 ng  
RT: 13.051 min Scan# 1323  
Delta R.T. 0.000 min  
Lab File: BN038238.D  
Acq: 01 Dec 2025 22:42

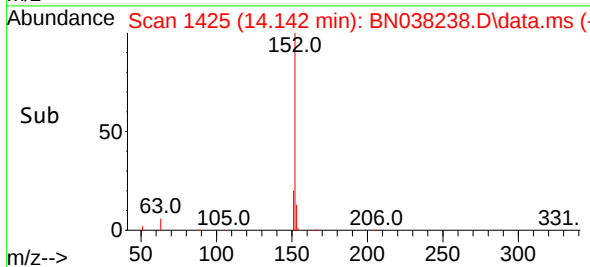
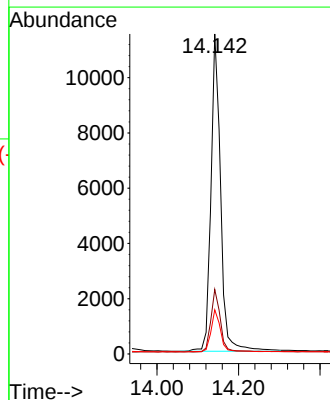
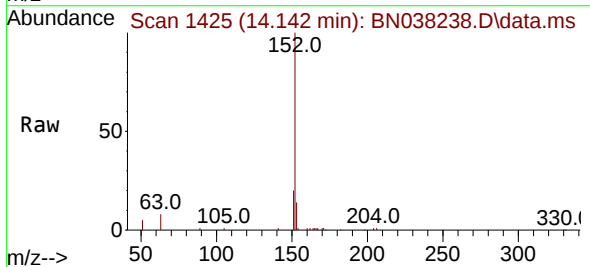
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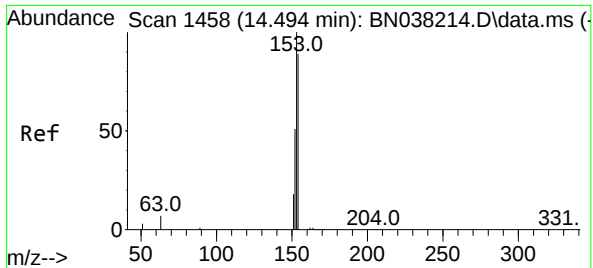
|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 172   | Resp: | 17945 |
| Ion Ratio | Lower | Upper |       |
| 172       | 100   |       |       |
| 171       | 34.4  | 28.1  | 42.1  |
| 170       | 22.5  | 19.1  | 28.7  |



#16  
Acenaphthylene  
Concen: 0.390 ng  
RT: 14.142 min Scan# 1425  
Delta R.T. 0.000 min  
Lab File: BN038238.D  
Acq: 01 Dec 2025 22:42

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 152   | Resp: | 18881 |
| Ion Ratio | Lower | Upper |       |
| 152       | 100   |       |       |
| 151       | 19.7  | 15.6  | 23.4  |
| 153       | 13.2  | 10.6  | 15.8  |

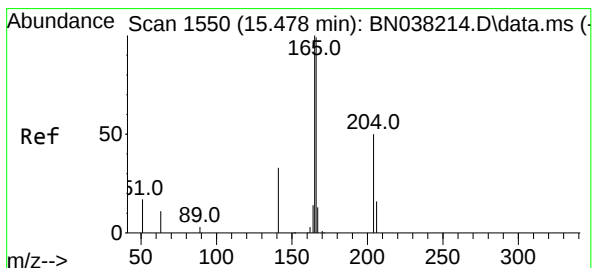
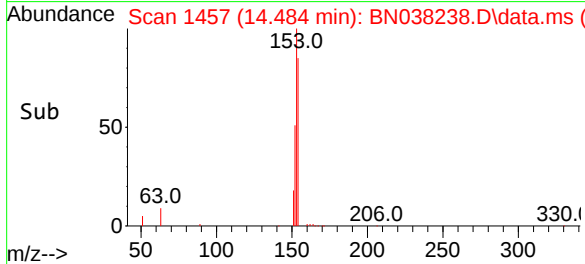
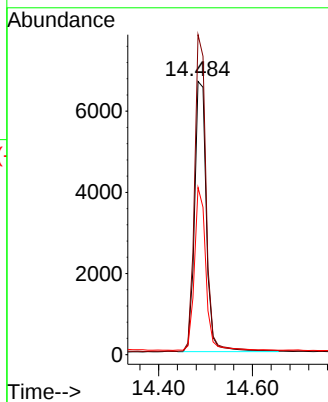
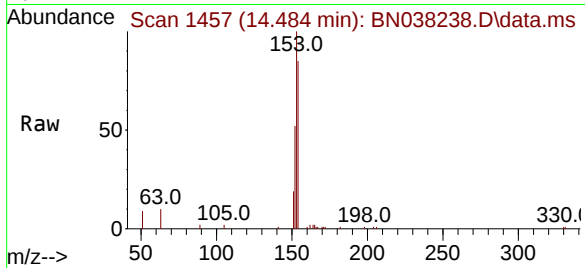




#17  
Acenaphthene  
Concen: 0.348 ng  
RT: 14.484 min Scan# 1457  
Delta R.T. -0.011 min  
Lab File: BN038238.D  
Acq: 01 Dec 2025 22:42

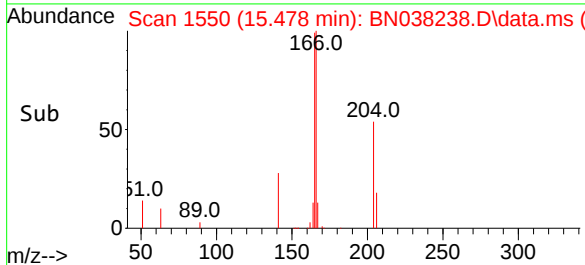
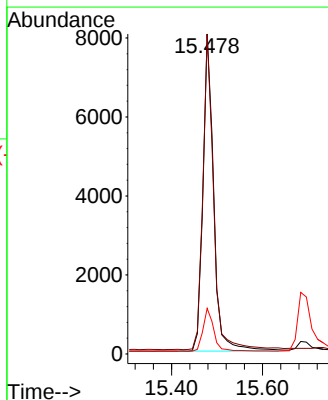
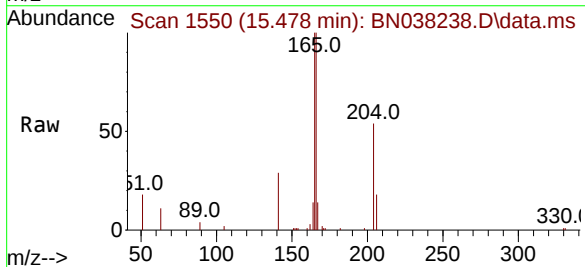
Instrument :  
BNA\_N  
ClientSampleId :  
PB170712BSD

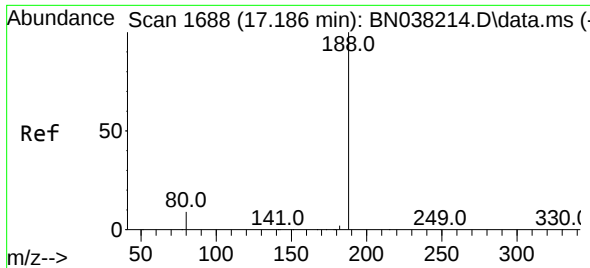
Tgt Ion:154 Resp: 11726  
Ion Ratio Lower Upper  
154 100  
153 114.7 91.1 136.7  
152 57.7 48.2 72.2



#18  
Fluorene  
Concen: 0.324 ng  
RT: 15.478 min Scan# 1550  
Delta R.T. 0.000 min  
Lab File: BN038238.D  
Acq: 01 Dec 2025 22:42

Tgt Ion:166 Resp: 14142  
Ion Ratio Lower Upper  
166 100  
165 99.1 78.7 118.1  
167 13.9 10.9 16.3

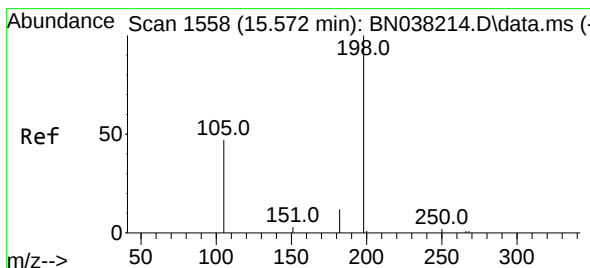
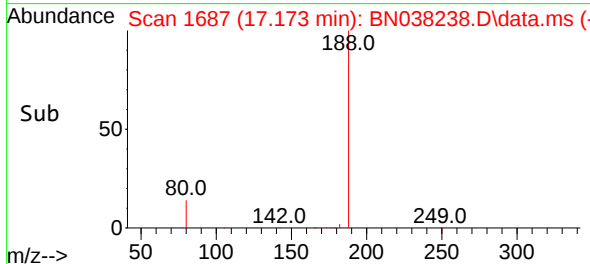
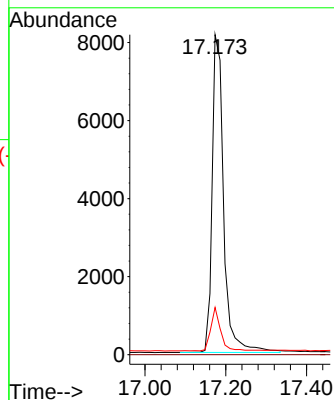
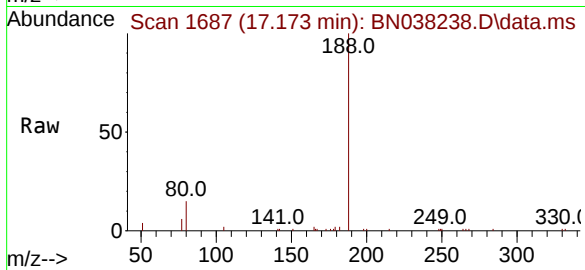




#19  
Phenanthrene-d10  
Concen: 0.400 ng  
RT: 17.173 min Scan# 1687  
Delta R.T. -0.012 min  
Lab File: BN038238.D  
Acq: 01 Dec 2025 22:42

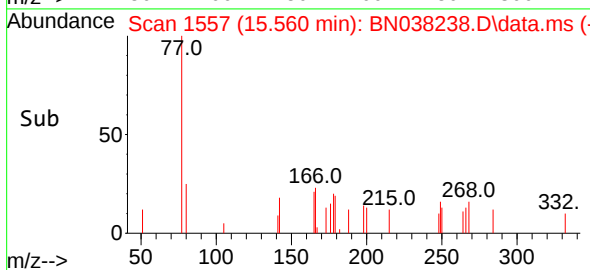
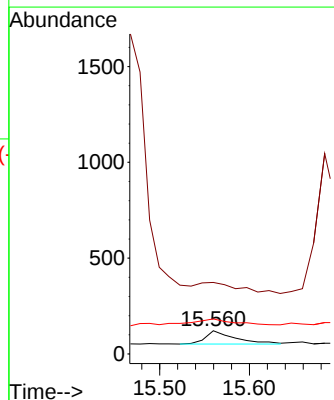
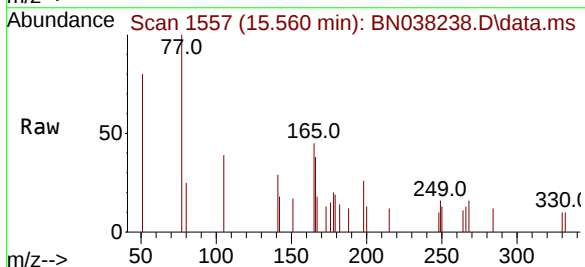
Instrument :  
BNA\_N  
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PB170712BSD

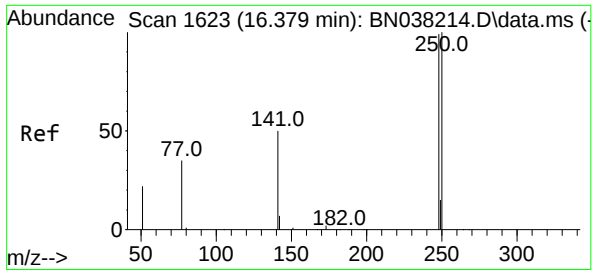
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 188     | 100   |       |       |
| 94      | 0.0   | 0.0   | 0.0   |
| 80      | 14.7  | 7.7   | 11.5# |



#20  
4,6-Dinitro-2-methylphenol  
Concen: 0.266 ng  
RT: 15.560 min Scan# 1557  
Delta R.T. -0.012 min  
Lab File: BN038238.D  
Acq: 01 Dec 2025 22:42

| Tgt Ion | Ratio | Lower | Upper  |
|---------|-------|-------|--------|
| 198     | 100   |       |        |
| 51      | 308.3 | 205.1 | 307.7# |
| 105     | 151.2 | 61.6  | 92.4#  |

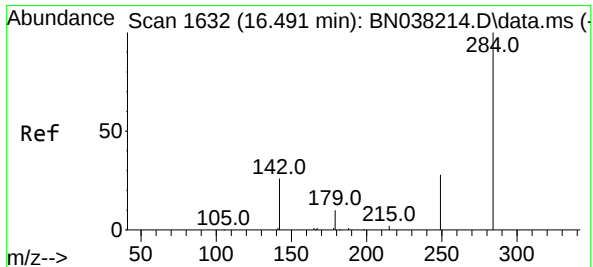
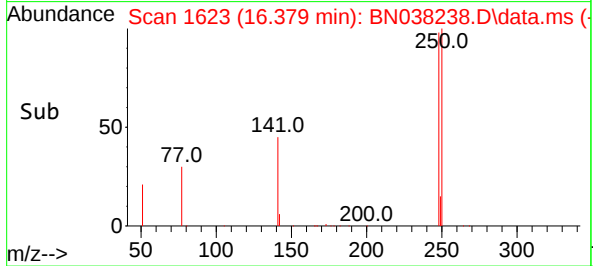
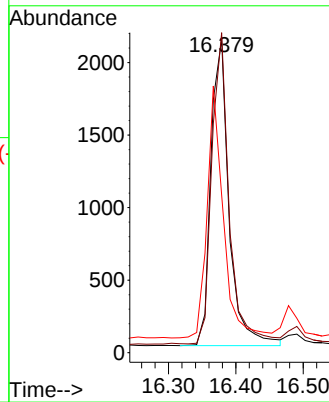
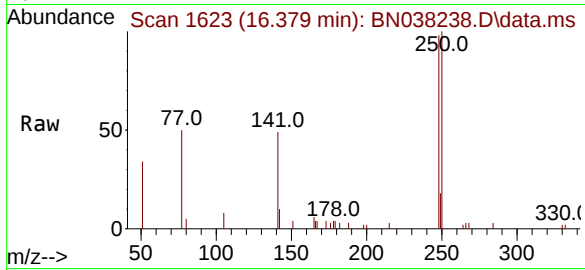




#21  
4-Bromophenyl-phenylether  
Concen: 0.355 ng  
RT: 16.379 min Scan# 1623  
Delta R.T. 0.000 min  
Lab File: BN038238.D  
Acq: 01 Dec 2025 22:42

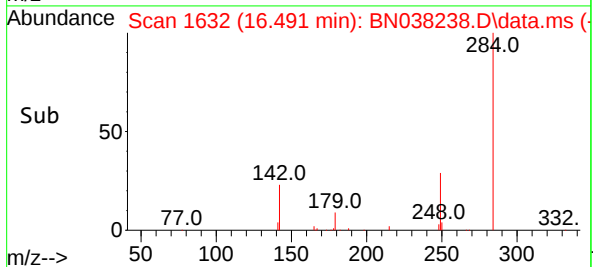
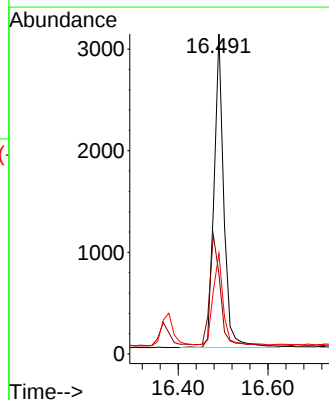
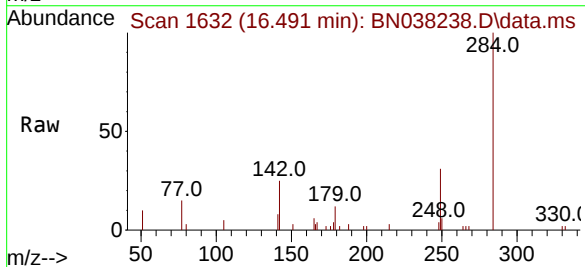
Instrument :  
BNA\_N  
ClientSampleId :  
PB170712BSD

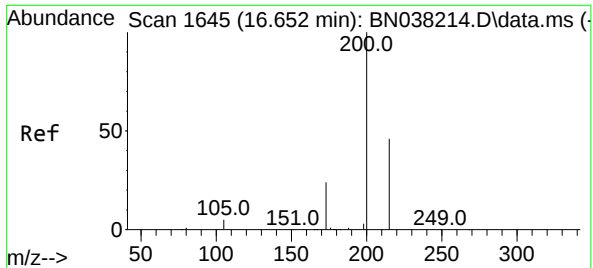
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 248   | Resp: | 3955  |
| Ion      | Ratio | Lower | Upper |
| 248      | 100   |       |       |
| 250      | 102.1 | 80.8  | 121.2 |
| 141      | 50.3  | 41.0  | 61.6  |



#22  
Hexachlorobenzene  
Concen: 0.339 ng  
RT: 16.491 min Scan# 1632  
Delta R.T. 0.000 min  
Lab File: BN038238.D  
Acq: 01 Dec 2025 22:42

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 284   | Resp: | 4649  |
| Ion      | Ratio | Lower | Upper |
| 284      | 100   |       |       |
| 142      | 37.3  | 30.5  | 45.7  |
| 249      | 30.7  | 23.8  | 35.8  |

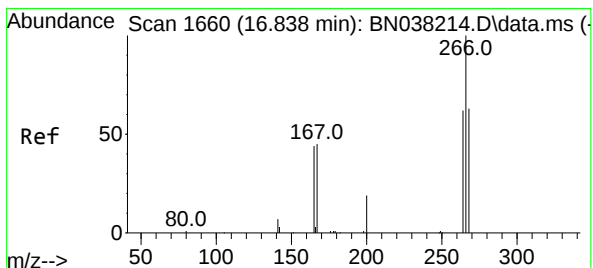
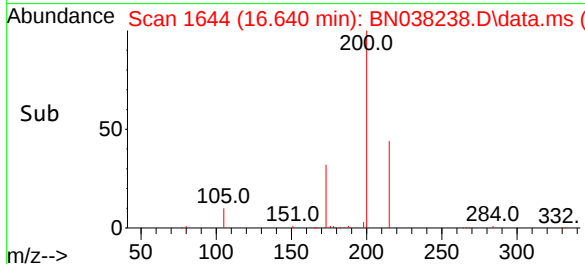
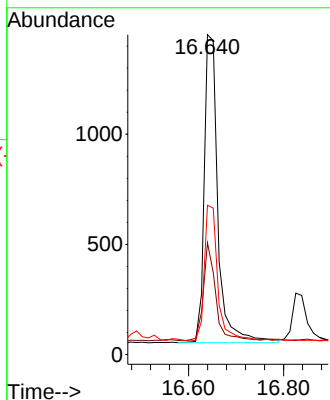
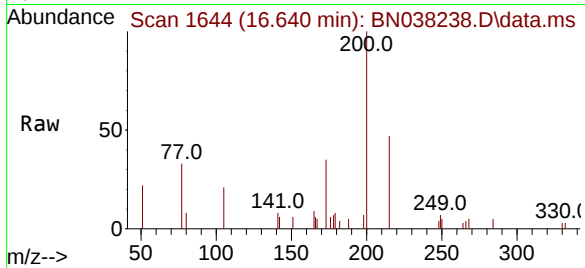




#23  
Atrazine  
Concen: 0.395 ng  
RT: 16.640 min Scan# 1644  
Delta R.T. -0.012 min  
Lab File: BN038238.D  
Acq: 01 Dec 2025 22:42

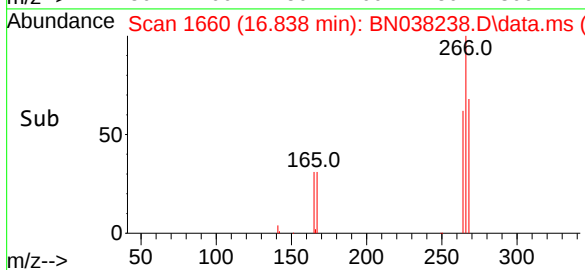
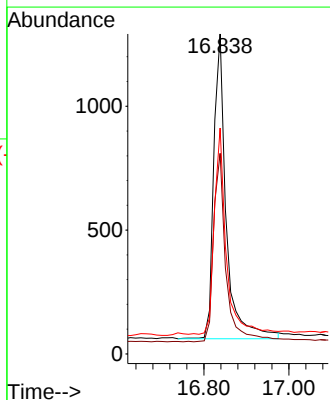
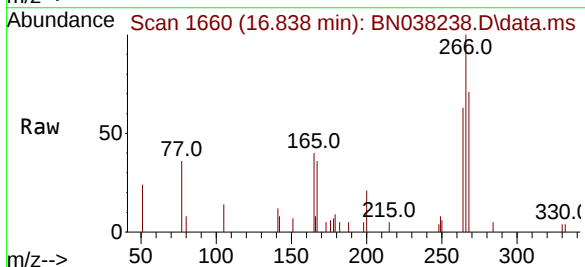
Instrument :  
BNA\_N  
ClientSampleId :  
PB170712BSD

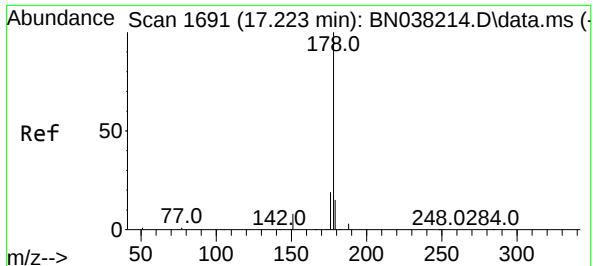
Tgt Ion:200 Resp: 2811  
Ion Ratio Lower Upper  
200 100  
173 34.9 21.0 31.6#  
215 46.7 37.8 56.8



#24  
Pentachlorophenol  
Concen: 0.671 ng  
RT: 16.838 min Scan# 1660  
Delta R.T. 0.000 min  
Lab File: BN038238.D  
Acq: 01 Dec 2025 22:42

Tgt Ion:266 Resp: 2524  
Ion Ratio Lower Upper  
266 100  
264 61.3 48.9 73.3  
268 64.6 50.2 75.2

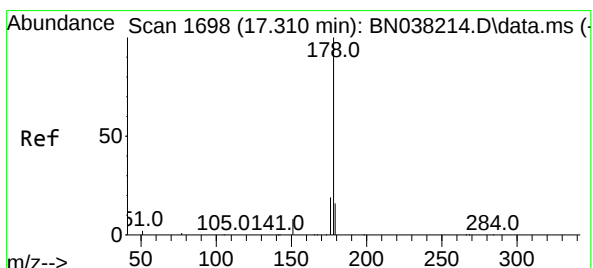
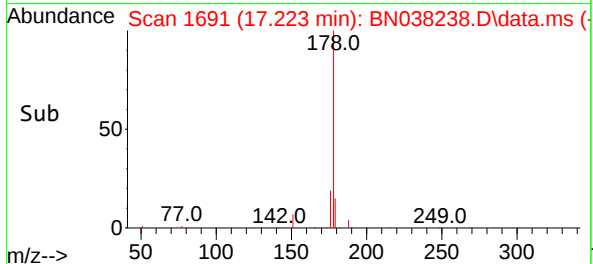
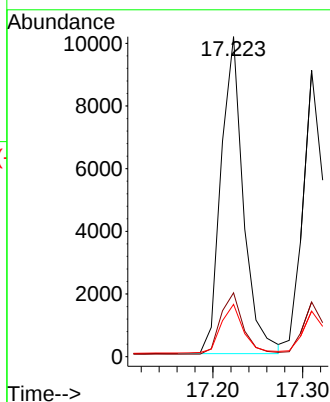
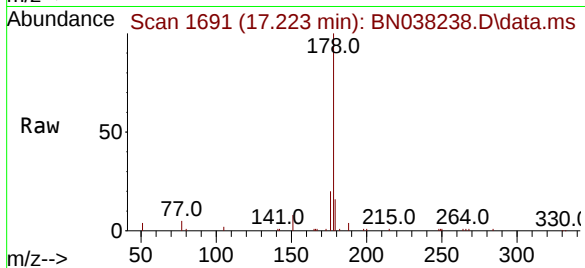




#25  
Phenanthrene  
Concen: 0.348 ng  
RT: 17.223 min Scan# 1691  
Delta R.T. 0.000 min  
Lab File: BN038238.D  
Acq: 01 Dec 2025 22:42

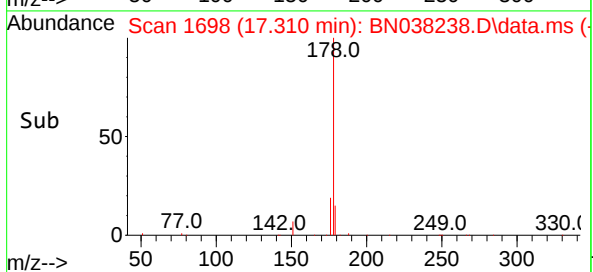
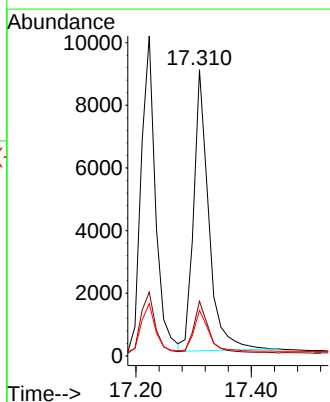
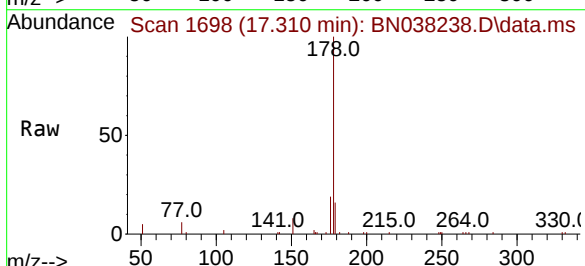
Instrument :  
BNA\_N  
ClientSampleId :  
PB170712BSD

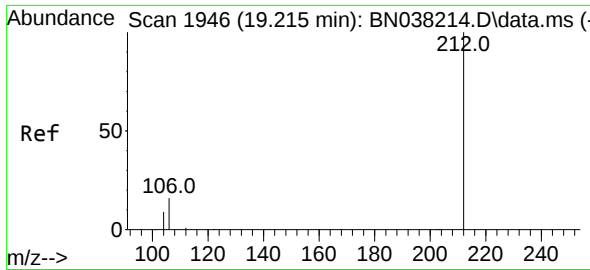
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 178     | 100   |       |       |
| 176     | 19.6  | 15.3  | 22.9  |
| 179     | 16.0  | 12.0  | 18.0  |



#26  
Anthracene  
Concen: 0.378 ng  
RT: 17.310 min Scan# 1698  
Delta R.T. 0.000 min  
Lab File: BN038238.D  
Acq: 01 Dec 2025 22:42

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 178     | 100   |       |       |
| 176     | 18.7  | 14.7  | 22.1  |
| 179     | 15.0  | 12.3  | 18.5  |





#27

Fluoranthene-d10

Concen: 0.389 ng

RT: 19.215 min Scan# 1946

Delta R.T. 0.000 min

Lab File: BN038238.D

Acq: 01 Dec 2025 22:42

Instrument :

BNA\_N

ClientSampleId :

PB170712BSD

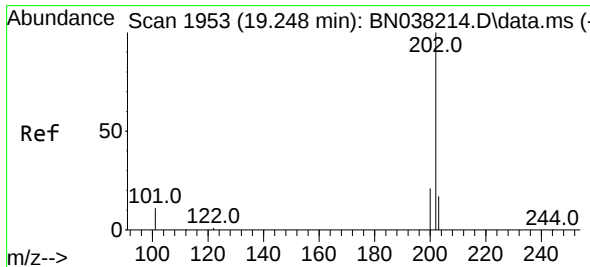
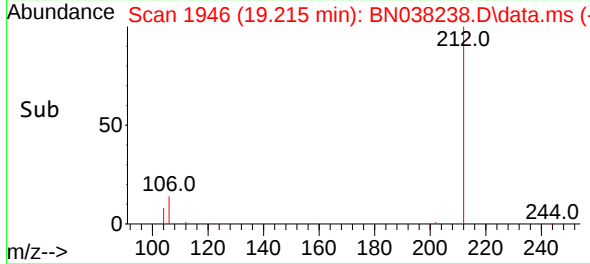
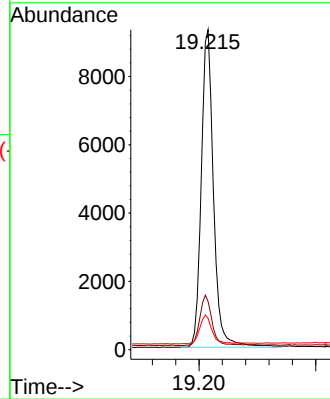
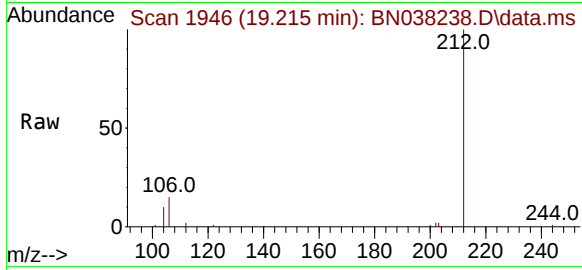
Tgt Ion:212 Resp: 13574

Ion Ratio Lower Upper

212 100

106 15.6 12.7 19.1

104 9.1 7.3 10.9



#28

Fluoranthene

Concen: 0.387 ng

RT: 19.243 min Scan# 1952

Delta R.T. -0.005 min

Lab File: BN038238.D

Acq: 01 Dec 2025 22:42

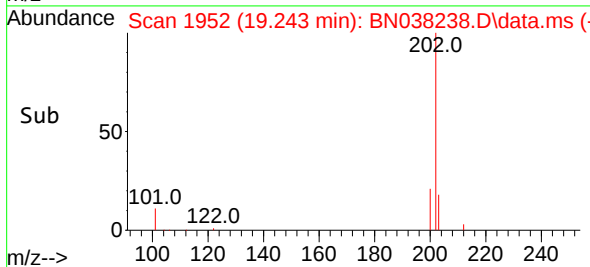
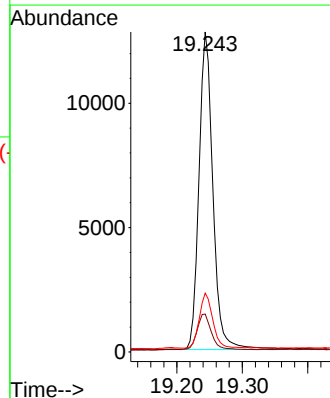
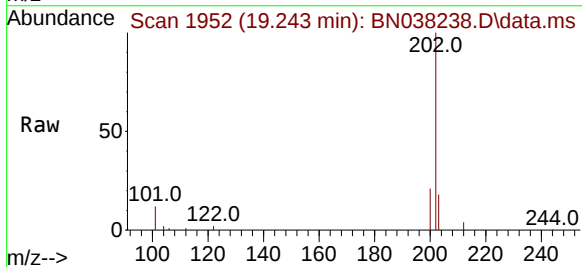
Tgt Ion:202 Resp: 18836

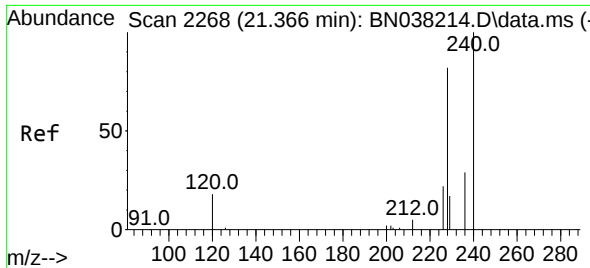
Ion Ratio Lower Upper

202 100

101 12.1 9.8 14.6

203 17.0 13.6 20.4

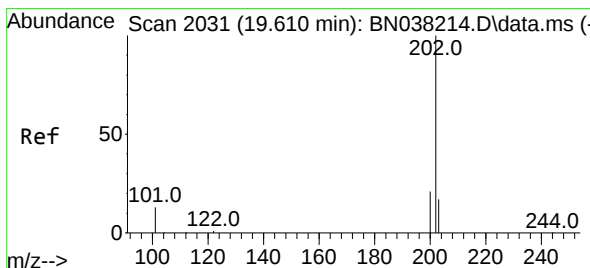
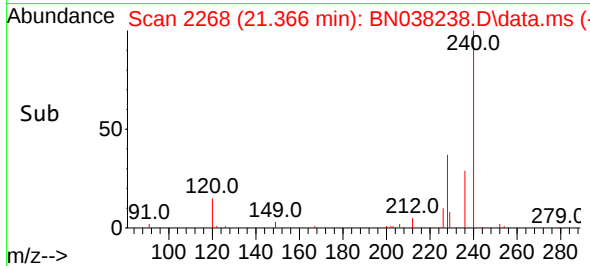
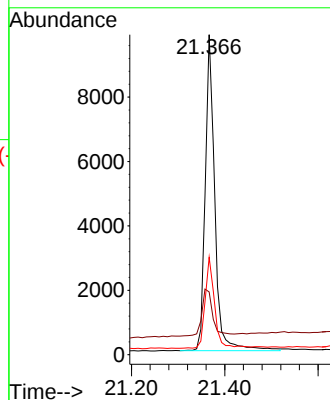
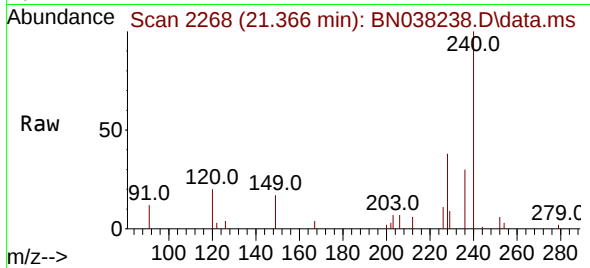




#29  
Chrysene-d12  
Concen: 0.400 ng  
RT: 21.366 min Scan# 21  
Delta R.T. 0.000 min  
Lab File: BN038238.D  
Acq: 01 Dec 2025 22:42

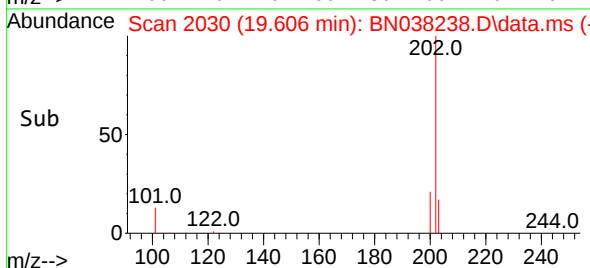
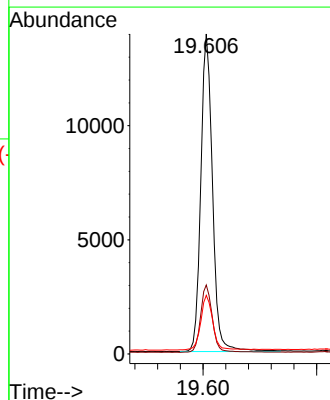
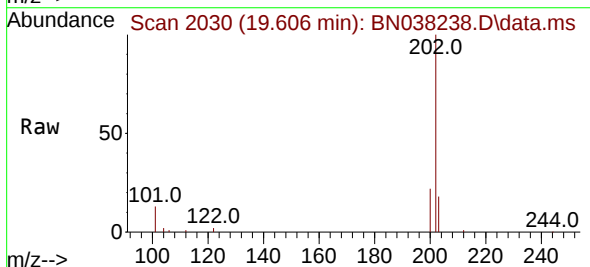
Instrument :  
BNA\_N  
ClientSampleId :  
PB170712BSD

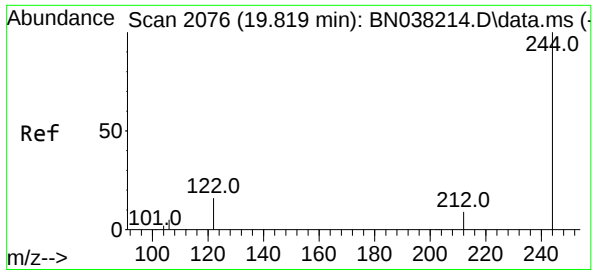
| Tgt Ion:  | 240   | Resp: | 14003 |
|-----------|-------|-------|-------|
| Ion Ratio | Lower | Upper |       |
| 240       | 100   |       |       |
| 120       | 19.6  | 18.1  | 27.1  |
| 236       | 30.4  | 24.2  | 36.4  |



#30  
Pyrene  
Concen: 0.284 ng  
RT: 19.606 min Scan# 2030  
Delta R.T. -0.005 min  
Lab File: BN038238.D  
Acq: 01 Dec 2025 22:42

| Tgt Ion:  | 202   | Resp: | 19886 |
|-----------|-------|-------|-------|
| Ion Ratio | Lower | Upper |       |
| 202       | 100   |       |       |
| 200       | 21.3  | 16.8  | 25.2  |
| 203       | 17.7  | 14.4  | 21.6  |

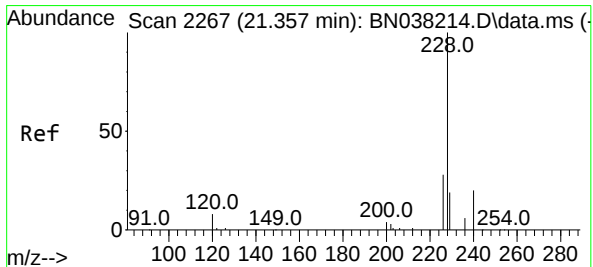
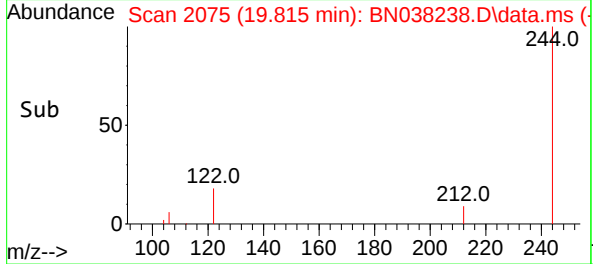
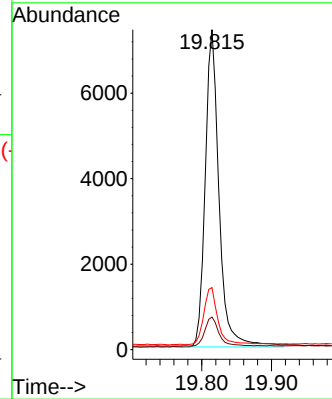
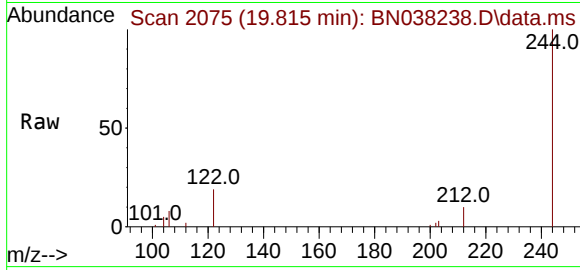




#31  
Terphenyl-d14  
Concen: 0.317 ng  
RT: 19.815 min Scan# 2075  
Delta R.T. -0.005 min  
Lab File: BN038238.D  
Acq: 01 Dec 2025 22:42

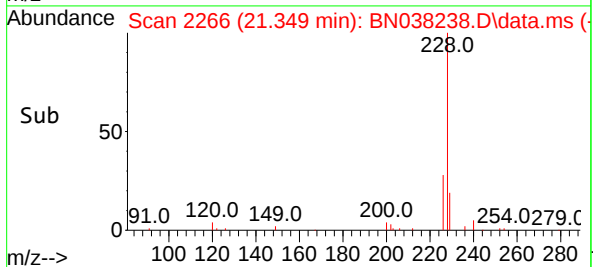
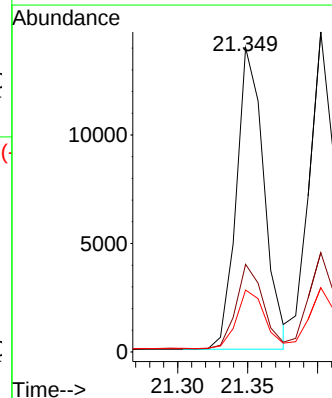
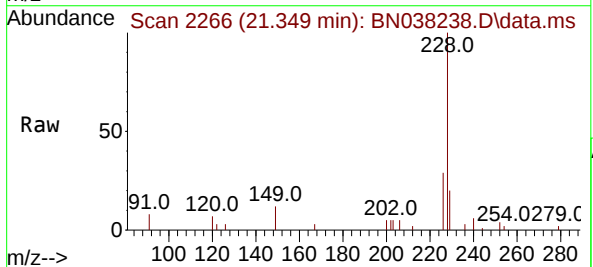
Instrument :  
BNA\_N  
ClientSampleId :  
PB170712BSD

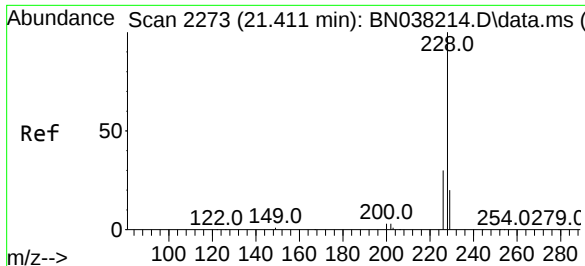
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 244     | 100   |       |       |
| 212     | 10.2  | 7.7   | 11.5  |
| 122     | 19.4  | 13.6  | 20.4  |



#32  
Benzo(a)anthracene  
Concen: 0.403 ng  
RT: 21.349 min Scan# 2266  
Delta R.T. -0.009 min  
Lab File: BN038238.D  
Acq: 01 Dec 2025 22:42

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 228     | 100   |       |       |
| 226     | 28.8  | 22.6  | 33.8  |
| 229     | 20.4  | 15.8  | 23.8  |





#33

Chrysene

Concen: 0.362 ng

RT: 21.402 min Scan# 21

Delta R.T. -0.009 min

Lab File: BN038238.D

Acq: 01 Dec 2025 22:42

Instrument :

BNA\_N

ClientSampleId :

PB170712BSD

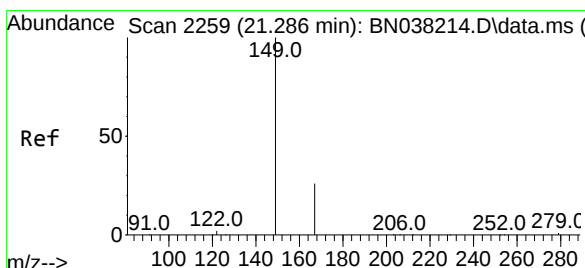
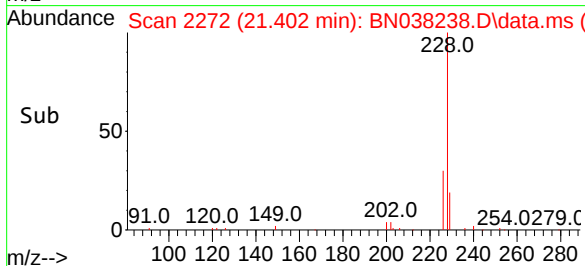
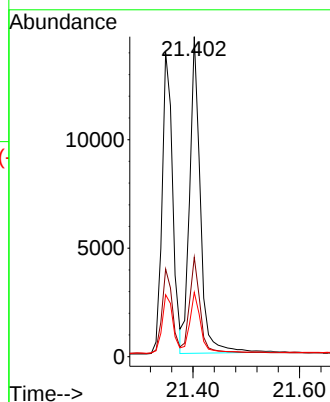
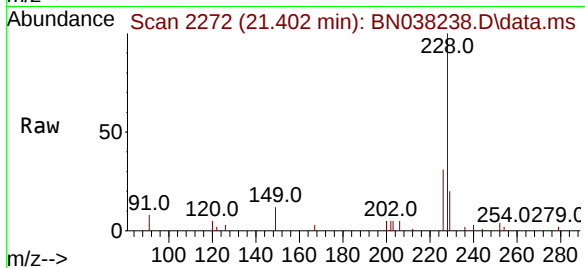
Tgt Ion:228 Resp: 20271

Ion Ratio Lower Upper

228 100

226 31.1 23.8 35.8

229 20.1 16.1 24.1



#34

Bis(2-ethylhexyl)phthalate

Concen: 0.455 ng

RT: 21.286 min Scan# 2259

Delta R.T. 0.000 min

Lab File: BN038238.D

Acq: 01 Dec 2025 22:42

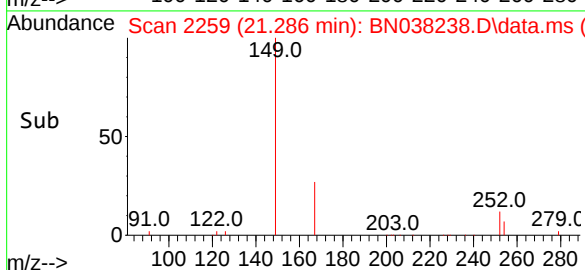
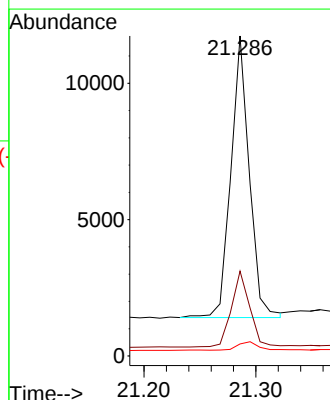
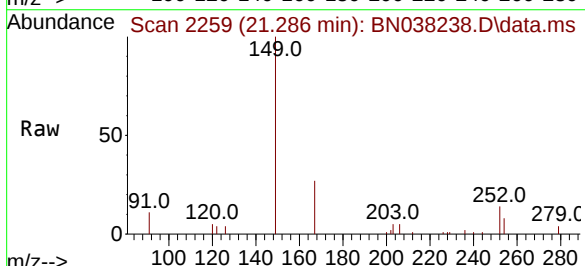
Tgt Ion:149 Resp: 11826

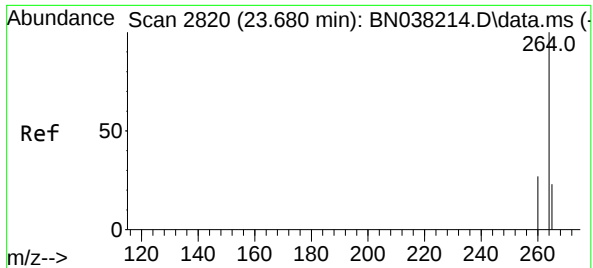
Ion Ratio Lower Upper

149 100

167 27.1 20.7 31.1

279 3.7 2.5 3.7#

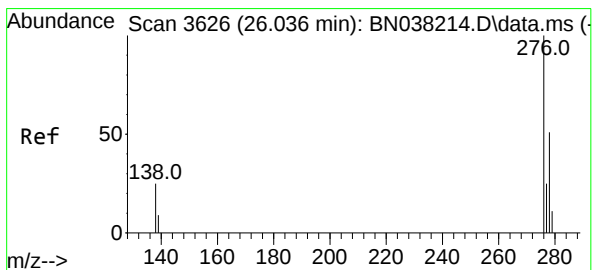
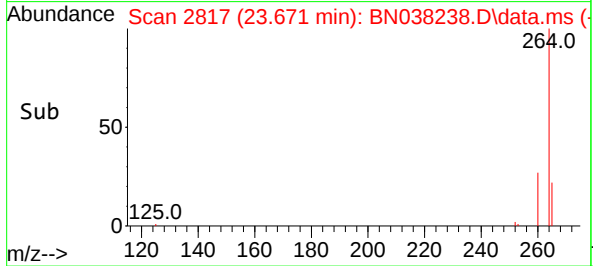
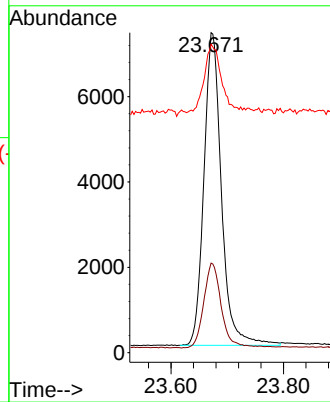
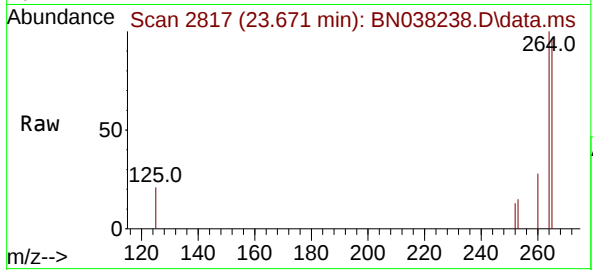




#35  
Perylene-d12  
Concen: 0.400 ng  
RT: 23.671 min Scan# 21  
Delta R.T. -0.009 min  
Lab File: BN038238.D  
Acq: 01 Dec 2025 22:42

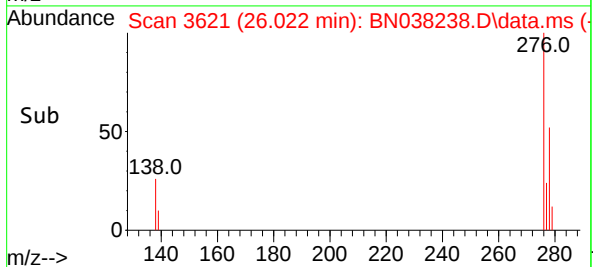
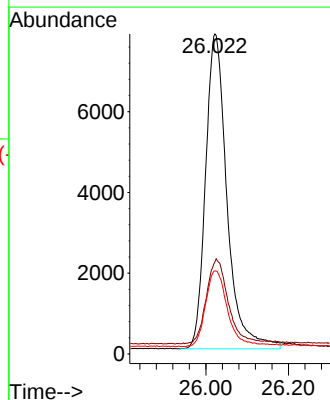
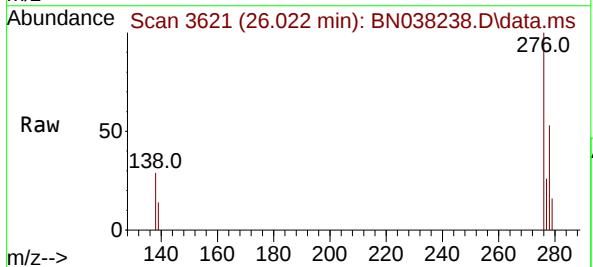
Instrument :  
BNA\_N  
ClientSampleId :  
PB170712BSD

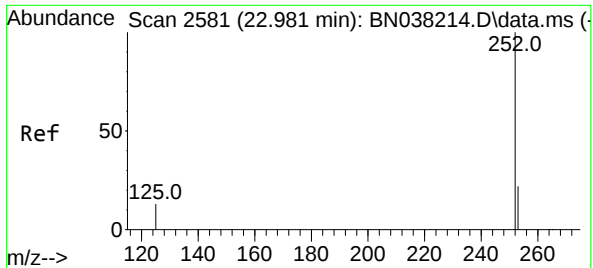
Tgt Ion:264 Resp: 15858  
Ion Ratio Lower Upper  
264 100  
260 28.0 21.7 32.5  
265 96.3 98.0 147.0#



#36  
Indeno(1,2,3-cd)pyrene  
Concen: 0.383 ng  
RT: 26.022 min Scan# 3621  
Delta R.T. -0.015 min  
Lab File: BN038238.D  
Acq: 01 Dec 2025 22:42

Tgt Ion:276 Resp: 28125  
Ion Ratio Lower Upper  
276 100  
138 27.3 21.4 32.2  
277 24.6 19.1 28.7





#37

Benzo(b)fluoranthene

Concen: 0.333 ng

RT: 22.975 min Scan# 2579

Delta R.T. -0.006 min

Lab File: BN038238.D

Acq: 01 Dec 2025 22:42

Instrument :

BNA\_N

ClientSampleId :

PB170712BSD

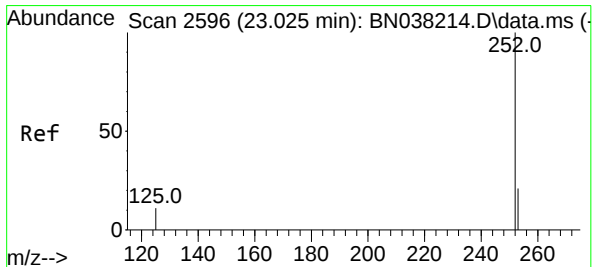
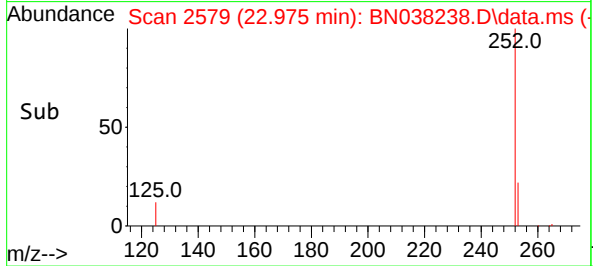
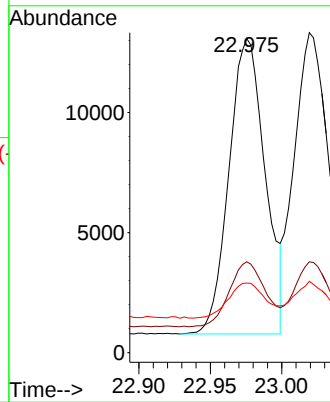
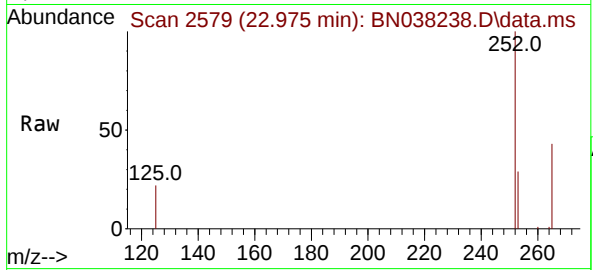
Tgt Ion:252 Resp: 21654

Ion Ratio Lower Upper

252 100

253 28.9 22.2 33.4

125 22.2 18.0 27.0



#38

Benzo(k)fluoranthene

Concen: 0.333 ng

RT: 23.019 min Scan# 2594

Delta R.T. -0.006 min

Lab File: BN038238.D

Acq: 01 Dec 2025 22:42

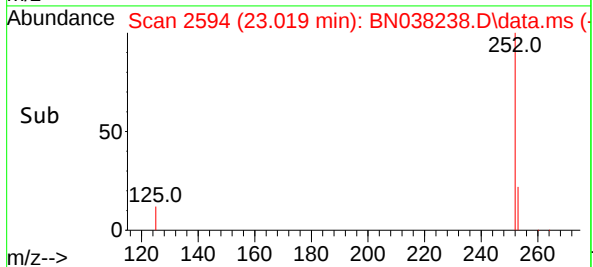
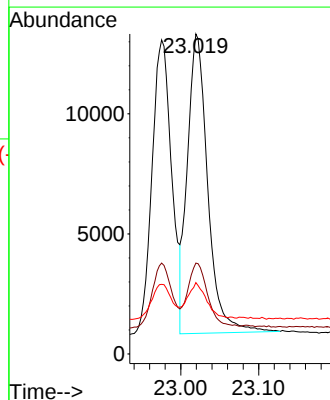
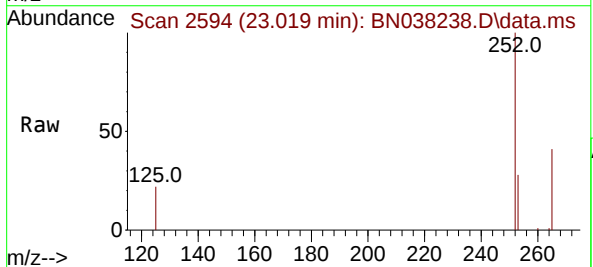
Tgt Ion:252 Resp: 22543

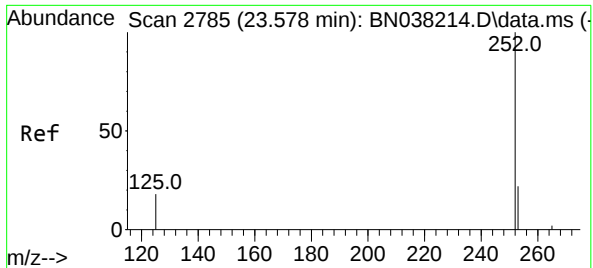
Ion Ratio Lower Upper

252 100

253 28.4 22.4 33.6

125 22.3 17.5 26.3





#39

Benzo(a)pyrene

Concen: 0.394 ng

RT: 23.572 min Scan# 21

Delta R.T. -0.006 min

Lab File: BN038238.D

Acq: 01 Dec 2025 22:42

Instrument :

BNA\_N

ClientSampleId :

PB170712BSD

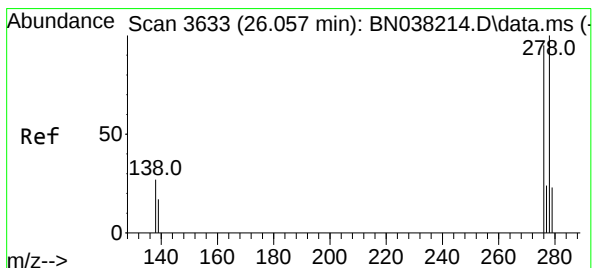
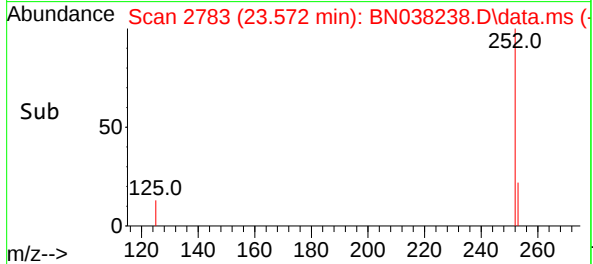
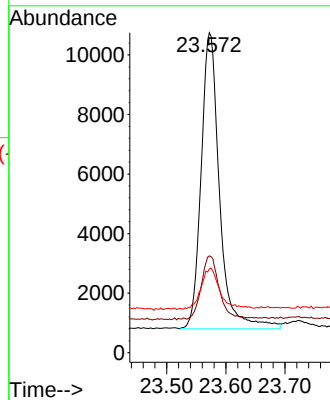
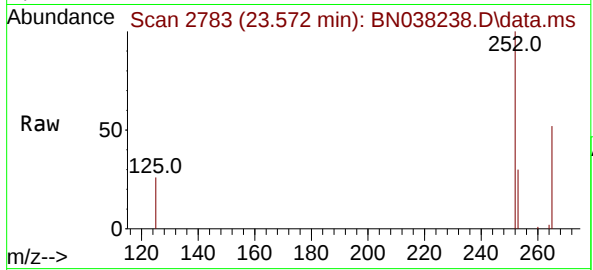
Tgt Ion:252 Resp: 21487

Ion Ratio Lower Upper

252 100

253 30.3 25.3 37.9

125 26.2 25.2 37.8



#40

Dibenzo(a,h)anthracene

Concen: 0.388 ng

RT: 26.039 min Scan# 3627

Delta R.T. -0.017 min

Lab File: BN038238.D

Acq: 01 Dec 2025 22:42

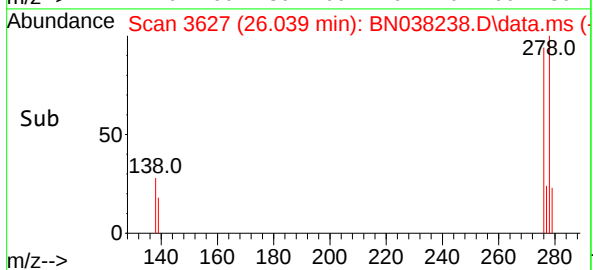
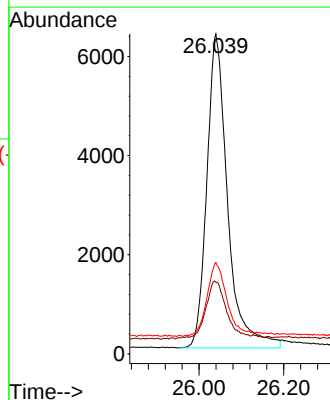
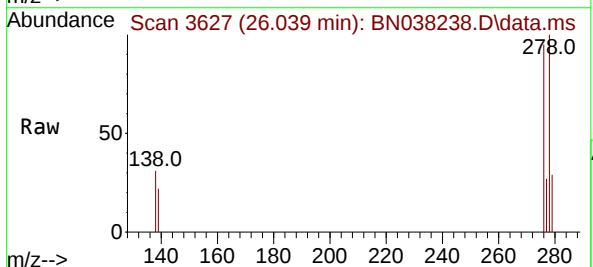
Tgt Ion:278 Resp: 21580

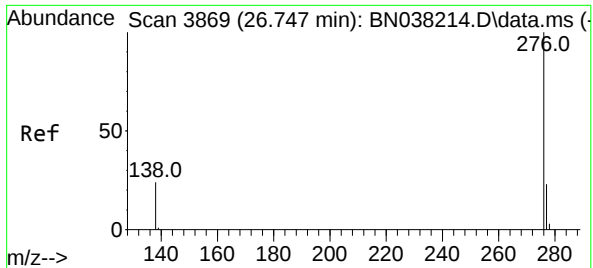
Ion Ratio Lower Upper

278 100

139 22.4 17.6 26.4

279 28.6 24.2 36.4





#41

Benzo(g,h,i)perylene

Concen: 0.352 ng

RT: 26.735 min Scan# 31

Delta R.T. -0.012 min

Lab File: BN038238.D

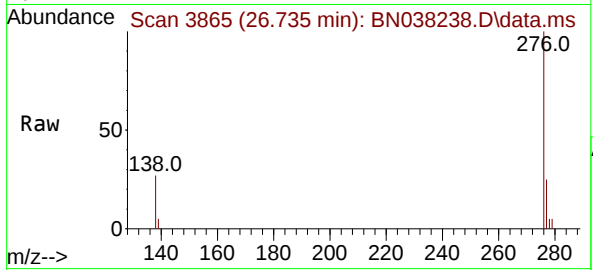
Acq: 01 Dec 2025 22:42

Instrument :

BNA\_N

ClientSampleId :

PB170712BSD



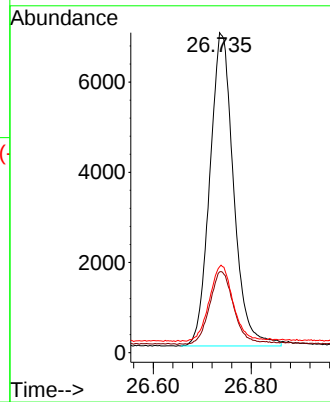
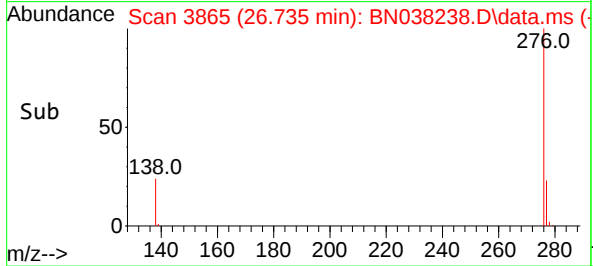
Tgt Ion:276 Resp: 23394

Ion Ratio Lower Upper

276 100

277 25.2 20.2 30.2

138 26.8 20.8 31.2



## Manual Integration Report

|           |          |            |       |
|-----------|----------|------------|-------|
| Sequence: | BN112725 | Instrument | BNA_n |
|-----------|----------|------------|-------|

| Sample ID  | File ID    | Parameter            | Review By | Review On            | Supervised By | Supervised On        | Reason                      |
|------------|------------|----------------------|-----------|----------------------|---------------|----------------------|-----------------------------|
| SSTDICC0.1 | BN038212.D | Benzo(g,h,i)perylene | Jagrut    | 12/2/2025 4:10:05 PM | mohammad      | 12/3/2025 1:12:27 AM | Peak Integrated by Software |

## Manual Integration Report

|           |          |            |       |
|-----------|----------|------------|-------|
| Sequence: | BN120125 | Instrument | BNA_n |
|-----------|----------|------------|-------|

| Sample ID  | File ID    | Parameter                   | Review By | Review On               | Supervised By | Supervised On           | Reason                      |
|------------|------------|-----------------------------|-----------|-------------------------|---------------|-------------------------|-----------------------------|
| PB170712BS | BN038232.D | 2-Methylnaphthalene-d1<br>0 | Jagrut    | 12/2/2025 3:24:09<br>PM | mohammad      | 12/3/2025 1:12:13<br>AM | Peak Integrated by Software |

Instrument ID: **BNA\_N**

**Daily Analysis Runlog For Sequence/QC Batch ID # BN112725**

|                          |                                                  |                   |                                               |
|--------------------------|--------------------------------------------------|-------------------|-----------------------------------------------|
| Review By                | Jagrut                                           | Review On         | 12/2/2025 3:36:38 PM                          |
| Supervise By             | mohammad                                         | Supervise On      | 12/3/2025 1:12:27 AM                          |
| SubDirectory             | BN112725                                         | HP Acquire Method | BNA_N, 8270_SiM HP Processing Method BN112725 |
| <b>STD. NAME</b>         | <b>STD REF.#</b>                                 |                   |                                               |
| Tune/Reschk              | SP6875                                           |                   |                                               |
| Initial Calibration Stds | SP6897,SP6898,SP6900,SP6901,SP6902,SP6903,SP6904 |                   |                                               |
| CCC                      | SP6902                                           |                   |                                               |
| Internal Standard/PEM    | SP6907,10ul/1000ul sample                        |                   |                                               |
| ICV/I.BLK                | SP6906                                           |                   |                                               |
| Surrogate Standard       |                                                  |                   |                                               |
| MS/MSD Standard          |                                                  |                   |                                               |
| LCS Standard             |                                                  |                   |                                               |

| Sr# | SampleId   | Data File Name | Date-Time         | Operator | Status |
|-----|------------|----------------|-------------------|----------|--------|
| 1   | DFTPP      | BN038211.D     | 26 Nov 2025 19:55 | RC/JU    | Ok     |
| 2   | SSTDIC0.1  | BN038212.D     | 26 Nov 2025 20:35 | RC/JU    | Ok,M   |
| 3   | SSTDIC0.2  | BN038213.D     | 26 Nov 2025 21:12 | RC/JU    | Ok     |
| 4   | SSTDIC0.4  | BN038214.D     | 26 Nov 2025 21:48 | RC/JU    | Ok     |
| 5   | SSTDIC0.8  | BN038215.D     | 26 Nov 2025 22:25 | RC/JU    | Ok     |
| 6   | SSTDIC1.6  | BN038216.D     | 26 Nov 2025 23:01 | RC/JU    | Ok     |
| 7   | SSTDIC3.2  | BN038217.D     | 26 Nov 2025 23:37 | RC/JU    | Ok     |
| 8   | SSTDIC5.0  | BN038218.D     | 27 Nov 2025 00:13 | RC/JU    | Ok     |
| 9   | SSTDICV0.4 | BN038219.D     | 27 Nov 2025 00:49 | RC/JU    | Ok     |
| 10  | PB170483BL | BN038220.D     | 27 Nov 2025 02:01 | RC/JU    | Ok     |

M : Manual Integration

Instrument ID: **BNA\_N**

**Daily Analysis Runlog For Sequence/QC Batch ID # BN120125**

|                          |                                                  |                   |                                               |
|--------------------------|--------------------------------------------------|-------------------|-----------------------------------------------|
| Review By                | Jagrut                                           | Review On         | 12/2/2025 3:40:28 PM                          |
| Supervise By             | mohammad                                         | Supervise On      | 12/3/2025 1:12:13 AM                          |
| SubDirectory             | BN120125                                         | HP Acquire Method | BNA_N, 8270_SiM HP Processing Method BN112725 |
| <b>STD. NAME</b>         | <b>STD REF.#</b>                                 |                   |                                               |
| Tune/Reschk              | SP6875                                           |                   |                                               |
| Initial Calibration Stds | SP6897,SP6898,SP6900,SP6901,SP6902,SP6903,SP6904 |                   |                                               |
| CCC                      | SP6902                                           |                   |                                               |
| Internal Standard/PEM    | SP6907,10ul/1000ul sample                        |                   |                                               |
| ICV/I.BLK                | SP6906                                           |                   |                                               |
| Surrogate Standard       |                                                  |                   |                                               |
| MS/MSD Standard          |                                                  |                   |                                               |
| LCS Standard             |                                                  |                   |                                               |

| Sr# | SampleId    | Data File Name | Date-Time         | Operator | Status   |
|-----|-------------|----------------|-------------------|----------|----------|
| 1   | DFTPP       | BN038221.D     | 01 Dec 2025 09:44 | RC/JU    | Ok       |
| 2   | SSTDCCC0.4  | BN038222.D     | 01 Dec 2025 10:23 | RC/JU    | Ok       |
| 3   | PB170590BL  | BN038223.D     | 01 Dec 2025 10:59 | RC/JU    | Ok       |
| 4   | Q3483-12    | BN038224.D     | 01 Dec 2025 11:35 | RC/JU    | Dilution |
| 5   | Q3483-12DL  | BN038225.D     | 01 Dec 2025 14:20 | RC/JU    | Ok       |
| 6   | Q3483-13    | BN038226.D     | 01 Dec 2025 14:56 | RC/JU    | Dilution |
| 7   | Q3483-13DL  | BN038227.D     | 01 Dec 2025 15:49 | RC/JU    | Ok       |
| 8   | SSTDCCC0.4  | BN038228.D     | 01 Dec 2025 16:35 | RC/JU    | Ok       |
| 9   | DFTPP       | BN038229.D     | 01 Dec 2025 17:11 | RC/JU    | Ok       |
| 10  | SSTDCCC0.4  | BN038230.D     | 01 Dec 2025 17:51 | RC/JU    | Ok       |
| 11  | PB170712BL  | BN038231.D     | 01 Dec 2025 18:28 | RC/JU    | Ok       |
| 12  | PB170712BS  | BN038232.D     | 01 Dec 2025 19:04 | RC/JU    | Ok,M     |
| 13  | Q3618-02    | BN038233.D     | 01 Dec 2025 19:40 | RC/JU    | Ok       |
| 14  | Q3618-02MS  | BN038234.D     | 01 Dec 2025 20:17 | RC/JU    | Ok,M     |
| 15  | Q3618-02MSD | BN038235.D     | 01 Dec 2025 20:53 | RC/JU    | Ok,M     |
| 16  | Q3618-01    | BN038236.D     | 01 Dec 2025 21:29 | RC/JU    | Ok       |
| 17  | PB170590BS  | BN038237.D     | 01 Dec 2025 22:05 | RC/JU    | Ok,M     |
| 18  | PB170712BSD | BN038238.D     | 01 Dec 2025 22:42 | RC/JU    | Ok       |
| 19  | Q3690-01    | BN038239.D     | 01 Dec 2025 23:17 | RC/JU    | Ok       |
| 20  | Q3690-02    | BN038240.D     | 01 Dec 2025 23:54 | RC/JU    | Ok       |
| 21  | Q3691-01    | BN038241.D     | 02 Dec 2025 00:30 | RC/JU    | Ok       |

Instrument ID: **BNA\_N**

**Daily Analysis Runlog For Sequence/QC Batch ID # BN120125**

| Review By                | Jagrut                                           | Review On         | 12/2/2025 3:40:28 PM                          |
|--------------------------|--------------------------------------------------|-------------------|-----------------------------------------------|
| Supervise By             | mohammad                                         | Supervise On      | 12/3/2025 1:12:13 AM                          |
| SubDirectory             | BN120125                                         | HP Acquire Method | BNA_N, 8270_SiM HP Processing Method BN112725 |
| STD. NAME                | STD REF.#                                        |                   |                                               |
| Tune/Reschk              | SP6875                                           |                   |                                               |
| Initial Calibration Stds | SP6897,SP6898,SP6900,SP6901,SP6902,SP6903,SP6904 |                   |                                               |
| CCC                      | SP6902                                           |                   |                                               |
| Internal Standard/PEM    | SP6907,10ul/1000ul sample                        |                   |                                               |
| ICV/I.BLK                | SP6906                                           |                   |                                               |
| Surrogate Standard       |                                                  |                   |                                               |
| MS/MSD Standard          |                                                  |                   |                                               |
| LCS Standard             |                                                  |                   |                                               |

|    |            |            |                   |       |    |
|----|------------|------------|-------------------|-------|----|
| 22 | Q3691-02   | BN038242.D | 02 Dec 2025 01:07 | RC/JU | Ok |
| 23 | Q3691-03   | BN038243.D | 02 Dec 2025 01:43 | RC/JU | Ok |
| 24 | Q3691-04   | BN038244.D | 02 Dec 2025 02:19 | RC/JU | Ok |
| 25 | Q3692-01   | BN038245.D | 02 Dec 2025 02:55 | RC/JU | Ok |
| 26 | Q3692-02   | BN038246.D | 02 Dec 2025 03:32 | RC/JU | Ok |
| 27 | Q3692-03   | BN038247.D | 02 Dec 2025 04:08 | RC/JU | Ok |
| 28 | SSTDCCC0.4 | BN038248.D | 02 Dec 2025 04:44 | RC/JU | Ok |

M : Manual Integration

Instrument ID: BNA\_N

**Daily Analysis Runlog For Sequence/QC Batch ID # BN112725**

|              |          |                   |                                           |
|--------------|----------|-------------------|-------------------------------------------|
| Review By    | Jagrut   | Review On         | 12/2/2025 3:36:38 PM                      |
| Supervise By | mohammad | Supervise On      | 12/3/2025 1:12:27 AM                      |
| SubDirectory | BN112725 | HP Acquire Method | BNA_N, 8270_HP Processing Method BN112725 |

| STD. NAME                | STD REF.#                                        |
|--------------------------|--------------------------------------------------|
| Tune/Reschk              | SP6875                                           |
| Initial Calibration Stds | SP6897,SP6898,SP6900,SP6901,SP6902,SP6903,SP6904 |
| CCC                      | SP6902                                           |
| Internal Standard/PEM    | SP6907,10ul/1000ul sample                        |
| ICV/I.BLK                | SP6906                                           |
| Surrogate Standard       |                                                  |
| MS/MSD Standard          |                                                  |
| LCS Standard             |                                                  |

| Sr# | SampleID    | ClientID    | Data File Name | Date-Time         | Comment                                | Operator | Status |
|-----|-------------|-------------|----------------|-------------------|----------------------------------------|----------|--------|
| 1   | DFTPP       | DFTPP       | BN038211.D     | 26 Nov 2025 19:55 |                                        | RC/JU    | Ok     |
| 2   | SSTDICC0.1  | SSTDICC0.1  | BN038212.D     | 26 Nov 2025 20:35 |                                        | RC/JU    | Ok,M   |
| 3   | SSTDICC0.2  | SSTDICC0.2  | BN038213.D     | 26 Nov 2025 21:12 |                                        | RC/JU    | Ok     |
| 4   | SSTDICCC0.4 | SSTDICCC0.4 | BN038214.D     | 26 Nov 2025 21:48 | Compound #20 kept on QR.               | RC/JU    | Ok     |
| 5   | SSTDICC0.8  | SSTDICC0.8  | BN038215.D     | 26 Nov 2025 22:25 |                                        | RC/JU    | Ok     |
| 6   | SSTDICC1.6  | SSTDICC1.6  | BN038216.D     | 26 Nov 2025 23:01 |                                        | RC/JU    | Ok     |
| 7   | SSTDICC3.2  | SSTDICC3.2  | BN038217.D     | 26 Nov 2025 23:37 |                                        | RC/JU    | Ok     |
| 8   | SSTDICC5.0  | SSTDICC5.0  | BN038218.D     | 27 Nov 2025 00:13 | Compound #14,24 removed from 5.0 level | RC/JU    | Ok     |
| 9   | SSTDICV0.4  | ICVBN112725 | BN038219.D     | 27 Nov 2025 00:49 | ICV failed for compound #05,20,24      | RC/JU    | Ok     |
| 10  | PB170483BL  | PB170483BL  | BN038220.D     | 27 Nov 2025 02:01 |                                        | RC/JU    | Ok     |

M : Manual Integration

Instrument ID: BNA\_N

**Daily Analysis Runlog For Sequence/QC Batch ID # BN120125**

|              |          |                   |                                           |
|--------------|----------|-------------------|-------------------------------------------|
| Review By    | Jagrut   | Review On         | 12/2/2025 3:40:28 PM                      |
| Supervise By | mohammad | Supervise On      | 12/3/2025 1:12:13 AM                      |
| SubDirectory | BN120125 | HP Acquire Method | BNA_N, 8270_HP Processing Method BN112725 |

| STD. NAME                | STD REF.#                                        |
|--------------------------|--------------------------------------------------|
| Tune/Reschk              | SP6875                                           |
| Initial Calibration Stds | SP6897,SP6898,SP6900,SP6901,SP6902,SP6903,SP6904 |
| CCC                      | SP6902                                           |
| Internal Standard/PEM    | SP6907,10ul/1000ul sample                        |
| ICV/I.BLK                | SP6906                                           |
| Surrogate Standard       |                                                  |
| MS/MSD Standard          |                                                  |
| LCS Standard             |                                                  |

| Sr# | SampleID    | ClientID           | Data File Name | Date-Time         | Comment                                       | Operator | Status   |
|-----|-------------|--------------------|----------------|-------------------|-----------------------------------------------|----------|----------|
| 1   | DFTPP       | DFTPP              | BN038221.D     | 01 Dec 2025 09:44 |                                               | RC/JU    | Ok       |
| 2   | SSTDCCC0.4  | SSTDCCC0.4         | BN038222.D     | 01 Dec 2025 10:23 |                                               | RC/JU    | Ok       |
| 3   | PB170590BL  | PB170590BL         | BN038223.D     | 01 Dec 2025 10:59 |                                               | RC/JU    | Ok       |
| 4   | Q3483-12    | HW1025-PT-TRIAZINE | BN038224.D     | 01 Dec 2025 11:35 | HW1025-PT-TRIAZINE-SOIL<br>Need 100X Dilution | RC/JU    | Dilution |
| 5   | Q3483-12DL  | HW1025-PT-TRIAZINE | BN038225.D     | 01 Dec 2025 14:20 |                                               | RC/JU    | Ok       |
| 6   | Q3483-13    | HW1025-PT-PAH-SOIL | BN038226.D     | 01 Dec 2025 14:56 | Need 10X Dilution                             | RC/JU    | Dilution |
| 7   | Q3483-13DL  | HW1025-PT-PAH-SOIL | BN038227.D     | 01 Dec 2025 15:49 |                                               | RC/JU    | Ok       |
| 8   | SSTDCCC0.4  | SSTDCCC0.4EC       | BN038228.D     | 01 Dec 2025 16:35 |                                               | RC/JU    | Ok       |
| 9   | DFTPP       | DFTPP              | BN038229.D     | 01 Dec 2025 17:11 |                                               | RC/JU    | Ok       |
| 10  | SSTDCCC0.4  | SSTDCCC0.4         | BN038230.D     | 01 Dec 2025 17:51 |                                               | RC/JU    | Ok       |
| 11  | PB170712BL  | PB170712BL         | BN038231.D     | 01 Dec 2025 18:28 |                                               | RC/JU    | Ok       |
| 12  | PB170712BS  | PB170712BS         | BN038232.D     | 01 Dec 2025 19:04 |                                               | RC/JU    | Ok,M     |
| 13  | Q3618-02    | EME-GENERAL-FILL   | BN038233.D     | 01 Dec 2025 19:40 | Regular Internal standard added               | RC/JU    | Ok       |
| 14  | Q3618-02MS  | EME-GENERAL-FILLM  | BN038234.D     | 01 Dec 2025 20:17 | Regular Internal standard added.              | RC/JU    | Ok,M     |
| 15  | Q3618-02MSD | EME-GENERAL-FILLM  | BN038235.D     | 01 Dec 2025 20:53 | Regular Internal standard added               | RC/JU    | Ok,M     |
| 16  | Q3618-01    | EME-TOP-SOIL       | BN038236.D     | 01 Dec 2025 21:29 | Regular Internal standard added               | RC/JU    | Ok       |
| 17  | PB170590BS  | PB170590BS         | BN038237.D     | 01 Dec 2025 22:05 |                                               | RC/JU    | Ok,M     |

Instrument ID: BNA\_N

**Daily Analysis Runlog For Sequence/QC Batch ID # BN120125**

|                          |                                                  |                   |                                           |
|--------------------------|--------------------------------------------------|-------------------|-------------------------------------------|
| Review By                | Jagrut                                           | Review On         | 12/2/2025 3:40:28 PM                      |
| Supervise By             | mohammad                                         | Supervise On      | 12/3/2025 1:12:13 AM                      |
| SubDirectory             | BN120125                                         | HP Acquire Method | BNA_N, 8270_HP Processing Method BN112725 |
| <b>STD. NAME</b>         | <b>STD REF.#</b>                                 |                   |                                           |
| Tune/Reschk              | SP6875                                           |                   |                                           |
| Initial Calibration Stds | SP6897,SP6898,SP6900,SP6901,SP6902,SP6903,SP6904 |                   |                                           |
| CCC                      | SP6902                                           |                   |                                           |
| Internal Standard/PEM    | SP6907,10ul/1000ul sample                        |                   |                                           |
| ICV/I.BLK                | SP6906                                           |                   |                                           |
| Surrogate Standard       |                                                  |                   |                                           |
| MS/MSD Standard          |                                                  |                   |                                           |
| LCS Standard             |                                                  |                   |                                           |

|    |             |                    |            |                   |  |       |    |
|----|-------------|--------------------|------------|-------------------|--|-------|----|
| 18 | PB170712BSD | PB170712BSD        | BN038238.D | 01 Dec 2025 22:42 |  | RC/JU | Ok |
| 19 | Q3690-01    | RW8-SP100-20251118 | BN038239.D | 01 Dec 2025 23:17 |  | RC/JU | Ok |
| 20 | Q3690-02    | RW8-SP303-20251118 | BN038240.D | 01 Dec 2025 23:54 |  | RC/JU | Ok |
| 21 | Q3691-01    | RW7-SP100-20251118 | BN038241.D | 02 Dec 2025 00:30 |  | RC/JU | Ok |
| 22 | Q3691-02    | RW7-SP201-20251118 | BN038242.D | 02 Dec 2025 01:07 |  | RC/JU | Ok |
| 23 | Q3691-03    | RW7-SP302-20251118 | BN038243.D | 02 Dec 2025 01:43 |  | RC/JU | Ok |
| 24 | Q3691-04    | RW7-SP303-20251118 | BN038244.D | 02 Dec 2025 02:19 |  | RC/JU | Ok |
| 25 | Q3692-01    | RW5-SP100-20251118 | BN038245.D | 02 Dec 2025 02:55 |  | RC/JU | Ok |
| 26 | Q3692-02    | RW5-SP201-20251118 | BN038246.D | 02 Dec 2025 03:32 |  | RC/JU | Ok |
| 27 | Q3692-03    | RW5-SP303-20251118 | BN038247.D | 02 Dec 2025 04:08 |  | RC/JU | Ok |
| 28 | SSTDCCC0.4  | SSTDCCC0.4EC       | BN038248.D | 02 Dec 2025 04:44 |  | RC/JU | Ok |

M : Manual Integration

**SOP ID:** M3510C,3580A-Extraction SVOC-21

**Clean Up SOP #:** N/A **Extraction Start Date :** 11/21/2025

**Matrix :** Water **Extraction Start Time :** 09:24

**Weigh By:** N/A **Extraction By:** RS **Extraction End Date :** 11/21/2025

**Balance check:** N/A **Filter By:** RS **Extraction End Time :** 14:25

**Balance ID:** N/A **pH Meter ID:** N/A **Concentration By:** EH

**pH Strip Lot#:** E3953 **Hood ID:** 4,6,7 **Supervisor By :** RUPESH

**Extraction Method:** ☒ Separatory Funnel ☐ Continous 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             | SP6876              |
| Surrogate     | 1.0ML    | 0.4 PPM             | SP6893              |
| 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            | E3986      |
| Baked Na2SO4       | N/A            | EP2663     |
| H2SO4 1:1          | N/A            | EP2657     |
| 10N NaOH           | N/A            | EP2658     |
| 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:**

PH Adjusted TO <2 with 1:1 H2SO4 & >11with 10N NAOH ,1.5ML Vial Lot #2210443.

**KD Bath ID:** WATER BATH-1 **Envap ID:** NEVAP-02

**KD Bath Temperature:** 60 °C **Envap Temperature:** 40 °C

| Date / Time | Prepped Sample Relinquished By/Location | Received By/Location |
|-------------|-----------------------------------------|----------------------|
| 11/21/25    | RS (Ext Lab)                            | JUL SVOC             |
| 14:30       | Preparation Group                       | Analysis Group       |

Analytical Method: M3510C,3580A-Extraction SVOC-21

Concentration Date: 11/21/2025

| Sample ID       | Client Sample ID   | Test               | g / mL | PH | Surr/Spike By: |            | Final Vol.<br>(mL) | JarID | Comments | Prep<br>Pos |
|-----------------|--------------------|--------------------|--------|----|----------------|------------|--------------------|-------|----------|-------------|
|                 |                    |                    |        |    | AddedBy        | VerifiedBy |                    |       |          |             |
| PB170712BL      | SBLK712            | SVOC-SIMGrou<br>p1 | 1000   | 6  | RUPESH         | ritesh     | 1                  |       |          | SEP-1       |
| PB170712BS      | SLCS712            | SVOC-SIMGrou<br>p1 | 1000   | 6  | RUPESH         | ritesh     | 1                  |       |          | 2           |
| PB170712BS<br>D | SLCSD712           | SVOC-SIMGrou<br>p1 | 1000   | 6  | RUPESH         | ritesh     | 1                  |       |          | 3           |
| Q3690-01        | RW8-SP100-20251118 | SVOC-SIMGrou<br>p1 | 1000   | 6  | RUPESH         | ritesh     | 1                  |       |          | 4           |
| Q3690-02        | RW8-SP303-20251118 | SVOC-SIMGrou<br>p1 | 970    | 6  | RUPESH         | ritesh     | 1                  | D     |          | 5           |
| Q3691-01        | RW7-SP100-20251118 | SVOC-SIMGrou<br>p1 | 1000   | 6  | RUPESH         | ritesh     | 1                  |       |          | 6           |
| Q3691-02        | RW7-SP201-20251118 | SVOC-SIMGrou<br>p1 | 960    | 6  | RUPESH         | ritesh     | 1                  |       |          | 7           |
| Q3691-03        | RW7-SP302-20251118 | SVOC-SIMGrou<br>p1 | 1000   | 6  | RUPESH         | ritesh     | 1                  |       |          | 8           |
| Q3691-04        | RW7-SP303-20251118 | SVOC-SIMGrou<br>p1 | 900    | 6  | RUPESH         | ritesh     | 1                  |       |          | 9           |
| Q3692-01        | RW5-SP100-20251118 | SVOC-SIMGrou<br>p1 | 1000   | 6  | RUPESH         | ritesh     | 1                  |       |          | 10          |
| Q3692-02        | RW5-SP201-20251118 | SVOC-SIMGrou<br>p1 | 960    | 6  | RUPESH         | ritesh     | 1                  |       |          | 11          |
| Q3692-03        | RW5-SP303-20251118 | SVOC-SIMGrou<br>p1 | 1000   | 6  | RUPESH         | ritesh     | 1                  |       |          | 12          |

*[Large handwritten signature]*

*Rg*  
*11/21*

\* Extracts relinquished on the same date as received.

# WORKLIST(Hardcopy Internal Chain)

WorkList Name : Q3690      WorkList ID : 193323      Department : Extraction      Date : 11-21-2025 09:14:20

| Sample   | Customer Sample    | Matrix | Test           | Preservative | Customer | Raw Sample Storage Location | Collect Date | Method        |
|----------|--------------------|--------|----------------|--------------|----------|-----------------------------|--------------|---------------|
| Q3690-01 | RW8-SP100-20251118 | Water  | SVOC-SIMGroup1 | Cool 4 deg C | TETR06   | A11                         | 11/18/2025   | 8270-Modified |
| Q3690-02 | RW8-SP303-20251118 | Water  | SVOC-SIMGroup1 | Cool 4 deg C | TETR06   | A11                         | 11/18/2025   | 8270-Modified |
| Q3691-01 | RW7-SP100-20251118 | Water  | SVOC-SIMGroup1 | Cool 4 deg C | TETR06   | A11                         | 11/18/2025   | 8270-Modified |
| Q3691-02 | RW7-SP201-20251118 | Water  | SVOC-SIMGroup1 | Cool 4 deg C | TETR06   | A11                         | 11/18/2025   | 8270-Modified |
| Q3691-03 | RW7-SP302-20251118 | Water  | SVOC-SIMGroup1 | Cool 4 deg C | TETR06   | A11                         | 11/18/2025   | 8270-Modified |
| Q3691-04 | RW7-SP303-20251118 | Water  | SVOC-SIMGroup1 | Cool 4 deg C | TETR06   | A11                         | 11/18/2025   | 8270-Modified |
| Q3692-01 | RW5-SP100-20251118 | Water  | SVOC-SIMGroup1 | Cool 4 deg C | TETR06   | A11                         | 11/18/2025   | 8270-Modified |
| Q3692-02 | RW5-SP201-20251118 | Water  | SVOC-SIMGroup1 | Cool 4 deg C | TETR06   | A11                         | 11/18/2025   | 8270-Modified |
| Q3692-03 | RW5-SP303-20251118 | Water  | SVOC-SIMGroup1 | Cool 4 deg C | TETR06   | A11                         | 11/18/2025   | 8270-Modified |

Date/Time 11/21/25 9:15  
 Raw Sample Received by: RS (Ext Lab)  
 Raw Sample Relinquished by: [Signature]

Date/Time 11/21/25 10:05  
 Raw Sample Received by: [Signature]  
 Raw Sample Relinquished by: RS (Ext Lab)

## Prep Standard - Chemical Standard Summary

**Order ID :** Q3691  
**Test :** SVOC-SIMGroup1  
**Prepbatch ID :** PB170712,  
**Sequence ID/Qc Batch ID:** BN120125,

**Standard ID :**  
EP2657,EP2658,EP2663,SP6830,SP6875,SP6876,SP6893,SP6896,SP6897,SP6898,SP6900,SP6901,SP6902,SP6903,SP6904,SP6905,SP6906,SP6907,

**Chemical ID :**  
10ul/1000ul  
sample,E3875,E3882,E3942,E3972,E3973,E3980,E3986,M6186,S10105,S11497,S11652,S11828,S12116,S12201,S12273,S12560,S12563,S12577,S12670,S12905,S13058,S13097,S13120,S13122,S13182,S13245,S13249,S13299,W 3112,

## Extractions STANDARD PREPARATION LOG

| <u>Recipe ID</u> | <u>NAME</u>    | <u>NO.</u>             | <u>Prep Date</u> | <u>Expiration Date</u> | <u>Prepared By</u> | <u>ScaleID</u> | <u>PipetteID</u> | <u>Supervised By</u>            |
|------------------|----------------|------------------------|------------------|------------------------|--------------------|----------------|------------------|---------------------------------|
| 314              | 1.1 H2SO4 SOLN | <a href="#">EP2657</a> | 11/03/2025       | 05/03/2026             | RUPESHKUMAR SHAH   | None           | None             | Riteshkumar Patel<br>11/03/2025 |

**FROM** 1000.00000ml of M6186 + 1000.00000ml of W3112 = Final Quantity: 2000.000 ml

| <u>Recipe ID</u> | <u>NAME</u>                | <u>NO.</u>             | <u>Prep Date</u> | <u>Expiration Date</u> | <u>Prepared By</u> | <u>ScaleID</u> | <u>PipetteID</u> | <u>Supervised By</u>            |
|------------------|----------------------------|------------------------|------------------|------------------------|--------------------|----------------|------------------|---------------------------------|
| 1874             | 10 N SODIUM HYDROXIDE SOLN | <a href="#">EP2658</a> | 11/03/2025       | 05/03/2026             | RUPESHKUMAR SHAH   | None           | None             | Riteshkumar Patel<br>11/03/2025 |

**FROM** 1000.00000ml of W3112 + 400.00000gram of E3882 = Final Quantity: 1000.000 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="#">EP2663</a> | 11/20/2025       | 05/20/2026             | RUPESHKUMAR SHAH   | Extraction_SCALE_2<br>(EX-SC-2) | None             | Riteshkumar Patel<br>11/20/2025 |

**FROM** 4000.00000gram of E3875 = 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="#">SP6830</a> | 06/17/2025       | 12/13/2025             | Jagrut Upadhyay    | None           | None             | Rahul Chavli<br>06/19/2025 |

**FROM** 0.10000ml of S12670 + 4.90000ml of E3942 = 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> |
|------------------|----------------------|------------------------|------------------|------------------------|--------------------|----------------|------------------|----------------------|
| 3895             | 50 ug/ml DFTPP 8270E | <a href="#">SP6875</a> | 09/30/2025       | 03/30/2026             | Rahul Chavli       | None           | None             | Jagrut Upadhyay      |
| 09/30/2025       |                      |                        |                  |                        |                    |                |                  |                      |

**FROM** 1.00000ml of S12577 + 19.00000ml of E3973 = Final Quantity: 20.000 ml

| <u>Recipe ID</u> | <u>NAME</u>            | <u>NO.</u>             | <u>Prep Date</u> | <u>Expiration Date</u> | <u>Prepared By</u> | <u>ScaleID</u> | <u>PipetteID</u> | <u>Supervised By</u> |
|------------------|------------------------|------------------------|------------------|------------------------|--------------------|----------------|------------------|----------------------|
| 3492             | 8270-SIM-Spike 0.4 PPM | <a href="#">SP6876</a> | 09/30/2025       | 11/30/2025             | Jagrut Upadhyay    | None           | None             | Rahul Chavli         |
| 09/30/2025       |                        |                        |                  |                        |                    |                |                  |                      |

**FROM** 0.00080ml of S11652 + 0.01000ml of S13120 + 0.02000ml of S12560 + 0.02000ml of S13097 + 0.02000ml of S13245 + 49.92920ml of E3972 = Final Quantity: 50.000 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="#">SP6893</a> | 10/09/2025       | 12/09/2025             | Jagrut Upadhyay    | None           | None             | Rahul Chavli         |
|                  |                            |                        |                  |                        |                    |                |                  | 10/09/2025           |

**FROM** 0.00800ml of S12201 + 0.01600ml of S12905 + 0.04000ml of S11828 + 199.93600ml of E3972 = 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> |
|------------------|----------------------------------------|------------------------|------------------|------------------------|--------------------|----------------|------------------|----------------------|
| 3339             | 8270 sim calibration stock 10ppm (CPI) | <a href="#">SP6896</a> | 10/22/2025       | 12/09/2025             | Jagrut Upadhyay    | None           | None             | Rahul Chavli         |
|                  |                                        |                        |                  |                        |                    |                |                  | 11/06/2025           |

**FROM** 0.03350ml of S10105 + 0.05000ml of S11497 + 0.12500ml of S11828 + 0.12500ml of S12116 + 0.25000ml of S12273 + 0.25000ml of S13058 + 24.16650ml of E3980 = 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="#">SP6897</a> | 10/22/2025       | 12/09/2025             | Jagrut Upadhyay    | None           | None             | Rahul Chavli         |
|                  |                                        |                        |                  |                        |                    |                |                  | 11/06/2025           |

**FROM** 0.50000ml of E3980 + 0.01000ml of SP6830 + 0.50000ml of SP6896 = 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="#">SP6898</a> | 10/22/2025       | 12/09/2025             | Jagrut Upadhyay    | None           | None             | Rahul Chavli         |
|                  |                                          |                        |                  |                        |                    |                |                  | 11/06/2025           |

**FROM** 0.68000ml of E3980 + 0.01000ml of SP6830 + 0.32000ml of SP6896 = 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="#">SP6900</a> | 10/22/2025       | 12/09/2025             | Jagrut Upadhyay    | None           | None             | Rahul Chavli         |
|                  |                                          |                        |                  |                        |                    |                |                  | 11/06/2025           |

**FROM** 0.84000ml of E3980 + 0.01000ml of SP6830 + 0.16000ml of SP6896 = 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="#">SP6901</a> | 10/22/2025       | 12/09/2025             | Jagrut Upadhyay    | None           | None             | Rahul Chavli         |
|                  |                                          |                        |                  |                        |                    |                |                  | 11/06/2025           |

**FROM** 0.92000ml of E3980 + 0.01000ml of SP6830 + 0.08000ml of SP6896 = 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="#">SP6902</a> | 10/22/2025       | 12/09/2025             | Jagrut Upadhyay    | None           | None             | Rahul Chavli         |
|                  |                                          |                        |                  |                        |                    |                |                  | 11/06/2025           |

**FROM** 0.96000ml of E3980 + 0.01000ml of SP6830 + 0.04000ml of SP6896 = 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="#">SP6903</a> | 10/22/2025       | 12/09/2025             | Jagrut Upadhyay    | None           | None             | Rahul Chavli         |
|                  |                                          |                        |                  |                        |                    |                |                  | 11/06/2025           |

**FROM** 0.50000ml of E3980 + 0.01000ml of SP6830 + 0.50000ml of SP6902 = Final Quantity: 1.010 ml

## SVOC STANDARD PREPARATION LOG

| <u>Recipe ID</u> | <u>NAME</u>                              | <u>NO.</u>             | <u>Prep Date</u> | <u>Expiration Date</u> | <u>Prepared By</u> | <u>ScaleID</u> | <u>PipetteID</u> | <u>Supervised By</u> |
|------------------|------------------------------------------|------------------------|------------------|------------------------|--------------------|----------------|------------------|----------------------|
| 3346             | 8270-SIM MDL-0.1PPM CALIBRATION SOLUTION | <a href="#">SP6904</a> | 10/22/2025       | 12/09/2025             | Jagrut Upadhyay    | None           | None             | Rahul Chavli         |
|                  |                                          |                        |                  |                        |                    |                |                  | 11/06/2025           |

**FROM** 0.75000ml of E3980 + 0.01000ml of SP6830 + 0.25000ml of SP6902 = 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> |
|------------------|------------------------------------------------|------------------------|------------------|------------------------|--------------------|----------------|------------------|----------------------|
| 3355             | 8270-SIM MDL-3.2PPM CALIBRATION STOCK SOL- 2ND | <a href="#">SP6905</a> | 10/27/2025       | 12/09/2025             | Jagrut Upadhyay    | None           | None             | Rahul Chavli         |
|                  |                                                |                        |                  |                        |                    |                |                  | 11/06/2025           |

**FROM** 0.00630ml of S12201 + 0.01280ml of S12905 + 0.03200ml of S11828 + 0.03200ml of S13122 + 0.06400ml of S12563 + 0.06400ml of S13249 + 0.06400ml of S13299 + 19.72490ml of E3980 = 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="#">SP6906</a> | 10/27/2025       | 12/09/2025             | Jagrut Upadhyay    | None           | None             | Rahul Chavli         |
| <b>SOURCE</b><br><b>FROM</b> 0.87500ml of E3980 + 0.01000ml of SP6830 + 0.12500ml of SP6905 = 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> |
|---------------------------------------------------------------------------------|---------------------------|------------------------|------------------|------------------------|--------------------|----------------|------------------|----------------------|
| 3493                                                                            | Internal Standard 0.4 PPM | <a href="#">SP6907</a> | 11/07/2025       | 04/16/2026             | Jagrut Upadhyay    | None           | None             | mohammad ahmed       |
| <b>FROM</b> 0.10000ml of S13182 + 4.90000ml of E3980 = Final Quantity: 5.000 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 | 417203 | 07/28/2026      | 07/28/2025 / RUPESH     | 01/29/2025 / Rajesh         | E3875          |

| 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 | 240301-B077875 | 01/31/2028      | 07/30/2025 / RUPESH     | 02/24/2025 / RUPESH         | E3882          |

| 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 | 12/13/2025      | 06/13/2025 / Rajesh     | 02/28/2025 / Rajesh         | E3942          |

| Supplier         | ItemCode / ItemName                        | Lot #      | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|------------------|--------------------------------------------|------------|-----------------|-------------------------|-----------------------------|----------------|
| Seidler Chemical | BA-9254-03 / Acetone, Ultra Resi (cs/4x4L) | 24H1462005 | 05/24/2027      | 09/16/2025 / Evelyn     | 09/04/2025 / Riteshkumar    | E3972          |

| 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) | 25C1262005 | 04/16/2026      | 09/15/2025 / Riteshkumar | 09/15/2025 / Riteshkumar    | E3973          |

| 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) | 25C1262005 | 04/16/2026      | 10/10/2025 / RUPESH     | 10/10/2025 / RUPESH         | E3980          |

## 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) | 25C1262005 | 04/16/2026      | 11/14/2025 / RUPESH     | 11/05/2025 / RUPESH         | E3986          |

| 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) | 23D2462010 | 07/12/2026      | 08/13/2025 / Sagar      | 08/06/2025 / Sagar          | M6186          |

| 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 | 12/19/2025      | 06/19/2025 / Jagrut     | 12/09/2021 / Christian      | S10105         |

| 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 | 04/22/2026      | 10/22/2025 / Jagrut     | 08/11/2023 / Yogesh         | S11497         |

| 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 | 01/30/2026      | 07/30/2025 / Rahul      | 11/09/2023 / Yogesh         | S11652         |

| 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 | 12/09/2025      | 06/09/2025 / Jagrut     | 11/21/2023 / rahul          | S11828         |

## CHEMICAL RECEIPT LOG BOOK

| 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 | 04/22/2026      | 10/22/2025 / Jagrut     | 03/08/2024 / Rahul          | S12116         |

| 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 | 03/22/2026      | 09/22/2025 / Jagrut     | 03/15/2024 / Rahul          | S12201         |

| 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 | 12/25/2025      | 06/25/2025 / Jagrut     | 05/24/2024 / Rahul          | S12273         |

| 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 | 03/22/2026      | 09/22/2025 / Jagrut     | 07/23/2024 / RAHUL          | S12560         |

[CS 4978-2]

| Supplier | ItemCode / ItemName                                                                                  | Lot #    | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|----------|------------------------------------------------------------------------------------------------------|----------|-----------------|-------------------------|-----------------------------|----------------|
| Restek   | 555224 / Custom 8270 Plus Std #2 [2nd lot at \$85 per ampul if requested - contact ARM with Request] | A0214017 | 04/16/2026      | 10/16/2025 / Jagrut     | 07/23/2024 / RAHUL          | S12563         |

[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         |

## CHEMICAL RECEIPT LOG BOOK

| Supplier | ItemCode / ItemName                                                                        | Lot #    | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|----------|--------------------------------------------------------------------------------------------|----------|-----------------|-------------------------|-----------------------------|----------------|
| Restek   | 31206 / SV Mix, CLP method, Internal Std, 2000ug/mL, CH <sub>2</sub> Cl <sub>2</sub> , 1mL | A0212266 | 12/16/2025      | 06/16/2025 / anahy      | 09/20/2024 / anahy          | S12670         |

| 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 | A0216785 | 03/22/2026      | 09/22/2025 / Jagrut     | 12/09/2024 / anahy          | S12905         |

| 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) | 531243 | 12/25/2025      | 06/25/2025 / Jagrut     | 01/16/2025 / anahy          | S13058         |

| 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> ] | A0221014 | 11/30/2025      | 09/03/2025 / Jagrut     | 05/20/2025 / Rahul          | S13097         |

| 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 | A0218894 | 02/25/2026      | 08/25/2025 / Jagrut     | 05/20/2025 / Rahul          | S13120         |

| 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 | A0218894 | 04/16/2026      | 10/16/2025 / Jagrut     | 05/20/2025 / Rahul          | S13122         |

## CHEMICAL RECEIPT LOG BOOK

| Supplier | ItemCode / ItemName                                                                        | Lot #    | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|----------|--------------------------------------------------------------------------------------------|----------|-----------------|-------------------------|-----------------------------|----------------|
| Restek   | 31206 / SV Mix, CLP method, Internal Std, 2000ug/mL, CH <sub>2</sub> Cl <sub>2</sub> , 1mL | A0224359 | 05/07/2026      | 11/07/2025 / rahul      | 06/02/2025 / anahy          | S13182         |

| 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] | A0228451 | 03/23/2026      | 09/22/2025 / Jagrut     | 08/06/2025 / Rahul          | S13245         |

[CS 4978-1]

| Supplier | ItemCode / ItemName                                                                                   | Lot #    | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|----------|-------------------------------------------------------------------------------------------------------|----------|-----------------|-------------------------|-----------------------------|----------------|
| Restek   | 555223 / Custom 8270 Plus Std #1 [2nd lot at \$100 per ampul if requested - contact ARM with Request] | A0228451 | 04/27/2026      | 10/27/2025 / Jagrut     | 08/06/2025 / Rahul          | S13249         |

[CS 4978-1]

| 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> ] | A0229652 | 04/27/2026      | 10/27/2025 / Jagrut     | 10/15/2025 / rahul          | S13299         |

| Supplier         | ItemCode / ItemName | Lot #               | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|------------------|---------------------|---------------------|-----------------|-------------------------|-----------------------------|----------------|
| Seidler Chemical | DIW / DI Water      | Daily Lab-Certified | 07/03/2029      | 07/03/2024 / lwona      | 07/03/2024 / lwona          | W3112          |



5580 Skylane Blvd  
Santa Rosa, CA 95403

(707)525-5788  
(800)878-7654 Toll Free  
(707)545-7901 Fax

Manufacturer's Quality System  
Audited & Registered  
by TUV USA to ISO 9001:2015

Date Received: \_\_\_\_\_

## Certificate of Analysis

Rev 0

Page 1 of 1

|                     |                 |                 |                    |                   |                                               |
|---------------------|-----------------|-----------------|--------------------|-------------------|-----------------------------------------------|
| <b>Catalog No.:</b> | <b>Lot No.:</b> | <b>Storage:</b> | <b>Solvent:</b>    | <b>Exp. Date:</b> | <b>Description:</b>                           |
| Z-112090            | 440246          | ≤ -10 °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 ± 17.2         |
| 2-fluorophenol                | 367-12-4   | 99.8       | 10.7.3.3P        | 7513 ± 17.26        |
| phenol-d <sub>6</sub>         | 13127-88-3 | 99.9       | 949.120.8P       | 7481 ± 17.19        |
| 2,4,6-tribromophenol          | 118-79-6   | 99.8       | 12.1.6P          | 7469 ± 17.17        |

Received on

02/25/21

by  
CG

S9236  
to

S9240

\*Not a certified value

Manufactured by o2si smart solutions, Accredited to ISO 9001:2008 by NSF and ISO/IEC 17025:2005 (Certification No. 3031.01) and ISO Guide 34:2009 (Certification No. 3031.02) by A2LA

All weights are traceable through N. I. S. T. Test No. 822/264157-00.  
Concentration (correct for purity) and uncertainty (95% confidence) values listed are determined gravimetrically.

Certified By: \_\_\_\_\_

Erica Castiglione  
Chemist



**PRODUCTOS  
QUÍMICOS  
MONTERREY, S.A. DE C.V.**

MIRADOR 201, COL. MIRADOR  
MONTERREY, N.L. MÉXICO  
CP 64070  
TEL +52 81 13 52 67 67  
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: | MAY/23/2024                     |
| LOT NUMBER :          | 417203                            |               |                                 |

| TEST                                     | SPECIFICATIONS | LOT VALUES  |
|------------------------------------------|----------------|-------------|
| Assay (Na <sub>2</sub> SO <sub>4</sub> ) | Min. 99.0%     | 99.8 %      |
| pH of a 5% solution at 25°C              | 5.2 - 9.2      | 6.2         |
| Insoluble matter                         | Max. 0.01%     | 0.001 %     |
| 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%     | 0.001 %     |
| Magnesium (Mg)                           | Max. 0.005%    | 0.001 %     |
| Potassium (K)                            | Max. 0.008%    | 0.001 %     |
| 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%        | 0.2 %       |
| Retained on US Standard No. 60 sieve     | Min. 94%       | 96.2 %      |
| Through US Standard No. 60 sieve         | Max. 5%        | 3.5 %       |
| 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.

RE-02-01, Ed. 3

E 3875



## CERTIFICATE OF ANALYSIS

|                          |                          |
|--------------------------|--------------------------|
| Product Name             | Sodium Hydroxide Pellets |
| Grade                    | ACS/NF/EP/BP Grade       |
| Catalog #                | 289ACSNFEPBP             |
| Item #                   | 103433                   |
| Batch #                  | 240301-B077875           |
| Date of Manufacture:     | 01 Feb 2024              |
| Recommended Retest Date: | 31 Jan 2028              |
| Customer PO #            | 6058164                  |
| Packaging Type           | Drum Fiber 50 Kg         |

| TEST                                                | MONO-GRAPH | SPECIFICATION                                               | RESULT    | UNITS |
|-----------------------------------------------------|------------|-------------------------------------------------------------|-----------|-------|
| Assay                                               | ACS        | NLT 97.0%                                                   | 98.7      | %     |
| Assay - Total Alkali                                | NF         | 95.0% - 100.5%                                              | 98.7      | %     |
| Assay - Content of Sodium                           | NF         | 54.0% - 59.8%                                               | 56.7      | %     |
| Appearance of solution                              | EP/BP      | The solution is clear and colourless                        | Pass      | N/A   |
| Sodium Carbonate (Na <sub>2</sub> CO <sub>3</sub> ) | ACS        | 1.0% max.                                                   | 0.5       | %     |
| Sodium Carbonate (Na <sub>2</sub> CO <sub>3</sub> ) | NF         | 3.0% max.                                                   | 0.5       | %     |
| Carbonates                                          | EP/BP      | Maximum 2.0%, calculated as Na <sub>2</sub> CO <sub>3</sub> | 0.5       | %     |
| Sulfate (SO <sub>4</sub> )                          | ACS        | 0.003% max.                                                 | LT 0.002% | N/A   |
| Sulfates                                            | EP/BP      | Maximum 200 ppm                                             | LT 20 ppm | N/A   |
| Chloride (Cl)                                       | ACS        | 0.005% max.                                                 | LT 0.005% | N/A   |
| Chlorides                                           | EP/BP      | Maximum 200 ppm                                             | LT 50 ppm | N/A   |
| Nitrogen Compounds (as N)                           | ACS        | 0.001% max.                                                 | LT 0.001% | N/A   |
| Phosphate (PO <sub>4</sub> )                        | ACS        | 0.001% max.                                                 | LT 0.001% | N/A   |
| Heavy Metals (as Ag)                                | ACS        | 0.002% max                                                  | LT 0.002% | N/A   |
| Iron (Fe)                                           | ACS        | 0.001% max.                                                 | LT 0.001% | N/A   |

|        |        |
|--------|--------|
| E 3882 | E 3884 |
| E 3883 | E 3885 |

[www.pharmco.com](http://www.pharmco.com) | [www.greenfield.com](http://www.greenfield.com)

Form: CofA-Standard, Rev 1.8, 31 JUL 2023, RAD

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 HeptachlorEpoxide) Single Peak (pg/mL)                        | $\leq 10$              | 2                 |
| Assay ( $\text{CH}_2\text{Cl}_2$ ) (by GC, exclusive of preservative, corrected for water) | $\geq 99.8 \%$         | 99.9 %            |
| Color (APHA)                                                                               | $\leq 10$              | 5                 |
| Residue after Evaporation                                                                  | $\leq 1.0 \text{ ppm}$ | 0.3 ppm           |
| Titration Acid ( $\mu\text{eq/g}$ )                                                        | $\leq 0.3$             | $< 0.1$           |
| Chloride (Cl)                                                                              | $\leq 10 \text{ ppm}$  | $< 5 \text{ ppm}$ |
| Water (by KF, coulometric)                                                                 | $\leq 0.02 \%$         | $< 0.01 \%$       |

For Laboratory, Research, or Manufacturing Use  
MEETS SPECIFICATIONS WITHIN THE EXPIRATION PERIOD

Country of Origin: United States  
Packaging Site: Phillipsburg Mfg Ctr & DC

E3942

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

Acetone  
BAKER RESI-ANALYZED® Reagent  
For Organic Residue Analysis

avantor™



Material No.: 9254-03  
Batch No.: 24H1462005  
Manufactured Date: 2024-05-24  
Expiration Date: 2027-05-24  
Revision No.: 0

## Certificate of Analysis

| Test                                                                    | Specification | Result      |
|-------------------------------------------------------------------------|---------------|-------------|
| Assay ((CH <sub>3</sub> ) <sub>2</sub> CO) (by GC, corrected for water) | >= 99.4 %     | 99.8 %      |
| Color (APHA)                                                            | <= 10         | 5           |
| Residue after Evaporation                                               | <= 1.0 ppm    | 0.2 ppm     |
| Substances Reducing Permanganate                                        | Passes Test   | Passes Test |
| Titration Acid (µeq/g)                                                  | <= 0.3        | 0.2         |
| Titration Base (µeq/g)                                                  | <= 0.6        | <0.1        |
| Water (H <sub>2</sub> O)                                                | <= 0.5 %      | 0.2 %       |
| FID-Sensitive Impurities (as 2-Octanol) Single Impurity Peak (ng/mL)    | <= 5          | <1          |
| ECD Sensitive Impurities (as 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 & DC

E3972

Jamie Croak  
Director Quality Operations, Bioscience Production

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700

Methylene Chloride  
ULTRA RESI-ANALYZED  
For Organic Residue Analysis  
(dichloromethane)



Material No.: 9266-A4  
Batch No.: 25C1262005  
Manufactured Date: 2025-01-15  
Expiration Date: 2026-04-16  
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 HeptachlorEpoxide) Single Peak (pg/mL)                        | $\leq 10$      | 1       |
| Assay ( $\text{CH}_2\text{Cl}_2$ ) (by GC, exclusive of preservative, corrected for water) | $\geq 99.8\%$  | 100.0 % |
| Color (APHA)                                                                               | $\leq 10$      | 5       |
| Residue after Evaporation                                                                  | $\leq 1.0$ ppm | 0.1 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

REC. on 10/10/25  
RJ

E3980

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.: 25C1262005  
Manufactured Date: 2025-01-15  
Expiration Date: 2026-04-16  
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)                       | $\leq 10$              | 1                 |
| Assay ( $\text{CH}_2\text{Cl}_2$ ) (by GC, exclusive of preservative, corrected for water) | $\geq 99.8 \%$         | 100.0 %           |
| Color (APHA)                                                                               | $\leq 10$              | 5                 |
| Residue after Evaporation                                                                  | $\leq 1.0 \text{ ppm}$ | 0.1 ppm           |
| Titration Acid ( $\mu\text{eq/g}$ )                                                        | $\leq 0.3$             | $< 0.1$           |
| Chloride (Cl)                                                                              | $\leq 10 \text{ ppm}$  | $< 5 \text{ ppm}$ |
| Water (by KF, coulometric)                                                                 | $\leq 0.02 \%$         | $< 0.01 \%$       |

For Laboratory, Research, or Manufacturing Use  
MEETS SPECIFICATIONS WITHIN THE EXPIRATION PERIOD

Received on 11/5/25

Country of Origin: United States  
Packaging Site: Phillipsburg Mfg Ctr & DC

E3986

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

Sulfuric Acid  
BAKER INSTRA-ANALYZED® Reagent  
For Trace Metal Analysis  
Low Selenium

avantor™



MG186

Reciev Date :- 08/06/25

Material No.: 9673-33  
Batch No.: 23D2462010  
Manufactured Date: 2023-03-22  
Retest Date: 2028-03-20  
Revision No.: 0

## Certificate of Analysis

| Test                                                         | Specification | Result      |
|--------------------------------------------------------------|---------------|-------------|
| ACS - Assay (H <sub>2</sub> SO <sub>4</sub> )                | 95.0 - 98.0 % | 96.1 %      |
| 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 and Antimony (as As)                                 | ≤ 4.0 ppb     | < 2.0 ppb   |
| Trace Impurities - Boron (B)                                 | ≤ 10.0 ppb    | 8.5 ppb     |
| Trace Impurities - Cadmium (Cd)                              | ≤ 2.0 ppb     | < 0.3 ppb   |
| Trace Impurities - Chromium (Cr)                             | ≤ 6.0 ppb     | < 0.4 ppb   |
| Trace Impurities - Cobalt (Co)                               | ≤ 0.5 ppb     | < 0.3 ppb   |
| Trace Impurities - Copper (Cu)                               | ≤ 1.0 ppb     | < 0.1 ppb   |
| Trace Impurities - Gold (Au)                                 | ≤ 10.0 ppb    | 0.5 ppb     |
| Heavy Metals (as Pb)                                         | ≤ 500.0 ppb   | < 100.0 ppb |
| Trace Impurities - Iron (Fe)                                 | ≤ 50.0 ppb    | 1.3 ppb     |
| Trace Impurities - Lead (Pb)                                 | ≤ 0.5 ppb     | < 0.5 ppb   |
| Trace Impurities - Magnesium (Mg)                            | ≤ 7.0 ppb     | 0.8 ppb     |
| Trace Impurities - Manganese (Mn)                            | ≤ 1.0 ppb     | < 0.4 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   | < 2.0 ppb   |
| Trace Impurities - Selenium (Se)                             | ≤ 50.0 ppb    | < 0.1 ppb   |
| Trace Impurities - Silicon (Si)                              | ≤ 100.0 ppb   | 31.5 ppb    |
| Trace Impurities - Silver (Ag)                               | ≤ 1.0 ppb     | < 0.3 ppb   |

>>> Continued on page 2 >>>

Sulfuric Acid  
BAKER INSTRA-ANALYZED® Reagent  
For Trace Metal Analysis  
Low Selenium

 **avantorsm**

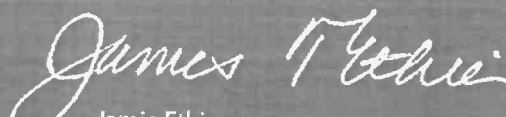


Material No.: 9673-33  
Batch No.: 23D2462010

| Test                              | Specification | Result    |
|-----------------------------------|---------------|-----------|
| Trace Impurities – Sodium (Na)    | ≤ 500.0 ppb   | 5.4 ppb   |
| Trace Impurities – Strontium (Sr) | ≤ 5.0 ppb     | < 0.2 ppb |
| Trace Impurities – Tin (Sn)       | ≤ 5.0 ppb     | < 0.8 ppb |
| Trace Impurities – Zinc (Zn)      | ≤ 5.0 ppb     | 0.4 ppb   |

For Laboratory, Research, or Manufacturing Use

Country of Origin: USA  
Packaging Site: Phillipsburg Mfg Ctr & DC

  
Jamie Ethier  
Vice President Global Quality



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Santa Rosa, CA 95403

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(800)878-7654 Toll Free  
(707)545-7901 Fax

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

|                     |                 |                 |                    |                   |                                                       |
|---------------------|-----------------|-----------------|--------------------|-------------------|-------------------------------------------------------|
| <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: \_\_\_\_\_

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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## 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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Fax: 1-814-353-1309

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CERTIFIED REFERENCE MATERIAL

# Certificate of Analysis

chromatographic plus



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

*This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.*

**Catalog No. :** 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:**

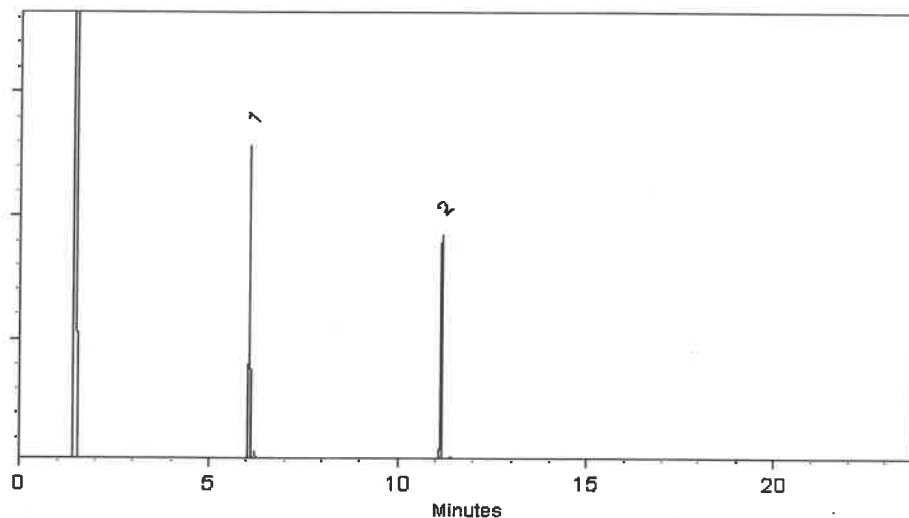
FID

**Split Vent:**

10 ml/min.

**Inj. Vol**

1µl

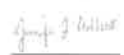


This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

  
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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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:**

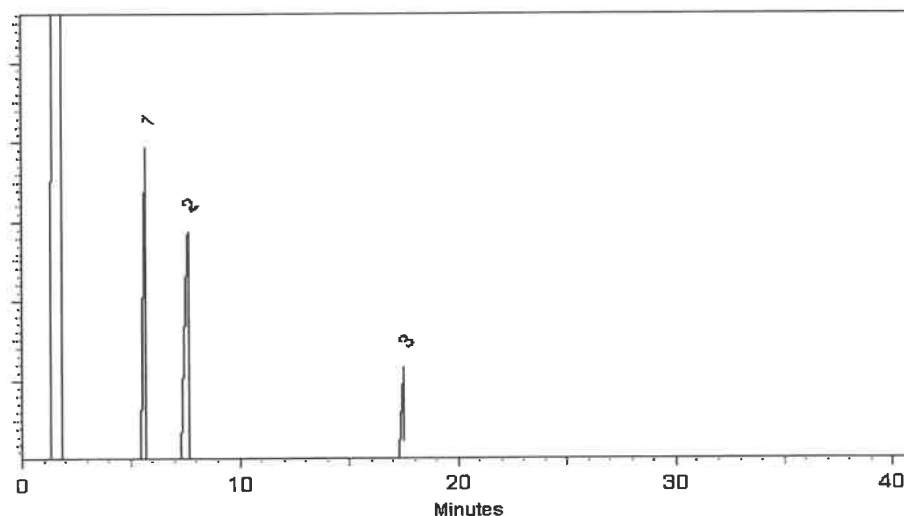
FID

**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

*Christie Mills*

Christie Mills - Operations Lead Tech - ARM QC

Date Mixed: 04-Jan-2024

Balance Serial # 1128360905

Date Passed: 08-Jan-2024

Manufactured under Restek's ISO 9001:2015  
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Certificate #FM 80397



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## Certificate of Analysis

Rev 0

Page 1 of 4

|                     |                 |                 |                    |                   |                                                                |
|---------------------|-----------------|-----------------|--------------------|-------------------|----------------------------------------------------------------|
| <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

Page 2 of 4

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

All weights are traceable through N. I. S. T. Test No. 822/264157-00.  
Concentration (correct for purity) and uncertainty (95% confidence) values listed are determined gravimetrically.

# Certificate of Analysis

Page 3 of 4

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

All weights are traceable through N. I. S. T. Test No. 822/264157-00.  
Concentration (correct for purity) and uncertainty (95% confidence) values listed are determined gravimetrically.

# Certificate of Analysis

Page 4 of 4

Catalog No.: Z-110381-01

Lot No.: 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

*Kerry E 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.



110 Benner Circle  
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## CERTIFIED REFERENCE MATERIAL

# Certificate of Analysis

gravimetric



### FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

*This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.*

**Catalog No. :** 555224 **Lot No.:** A0214017

**Description :** Custom 8270 Plus Standard #2

Custom 8270 Plus Standard #2 1,000µg/mL, Methylene Chloride, 1mL/ampul

**Container Size :** 2 mL **Pkg Amt:** > 1 mL

**Expiration Date :** July 31, 2026 **Storage:** 10°C or colder

**Ship:** Ambient

### CERTIFIED VALUES

| Component # | Compound                   | CAS #    | Lot #        | Purity | Grav. Conc. (weight/volume) | Expanded Uncertainty * (95% C.L.; K=2) |
|-------------|----------------------------|----------|--------------|--------|-----------------------------|----------------------------------------|
| 1           | 1,2,4,5-Tetrachlorobenzene | 95-94-3  | MKCT9480     | 99%    | 1,005.0 µg/mL               | +/- 29.541899                          |
| 2           | Acetophenone               | 98-86-2  | STBH8205     | 99%    | 1,005.0 µg/mL               | +/- 29.541899                          |
| 3           | Benzaldehyde               | 100-52-7 | RD231129RSRA | 99%    | 1,008.0 µg/mL               | +/- 29.630084                          |
| 4           | Benzoic acid               | 65-85-0  | MKCR2694     | 99%    | 1,010.0 µg/mL               | +/- 29.688874                          |
| 5           | Biphenyl                   | 92-52-4  | MKCS5928     | 99%    | 1,008.0 µg/mL               | +/- 29.630084                          |

**Solvent:** Methylene chloride  
**CAS #** 75-09-2  
**Purity** 99%

S12509 } RC/  
↓  
S12568 } 7/24/24

Jess Hoy - Operations Tech I

Date Mixed: 18-Jul-2024

Balance: 1128360905

Manufactured under Restek's ISO 9001:2015  
Registered Quality System  
Certificate #FM 80397

## General Certified Reference Material Notes

### Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

### Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

### Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k \sqrt{u_{gravimetric}^2 + u_{homogeneity}^2 + u_{storage\ stability}^2 + u_{shipping\ stability}^2}$$

$k$  is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

### Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

### Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.



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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. :** 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 } RC  
↓  
S12579 } 8/2/24

Quality Confirmation Test

**Column:**  
30m x 0.25mm x 0.25µm  
Rtx-5 (cat.#10223)

**Carrier Gas:**  
hydrogen-constant pressure 10 psi.

**Temp. Program:**  
75°C (hold 1 min.) to 330°C  
@ 20°C/min. (hold 10 min.)

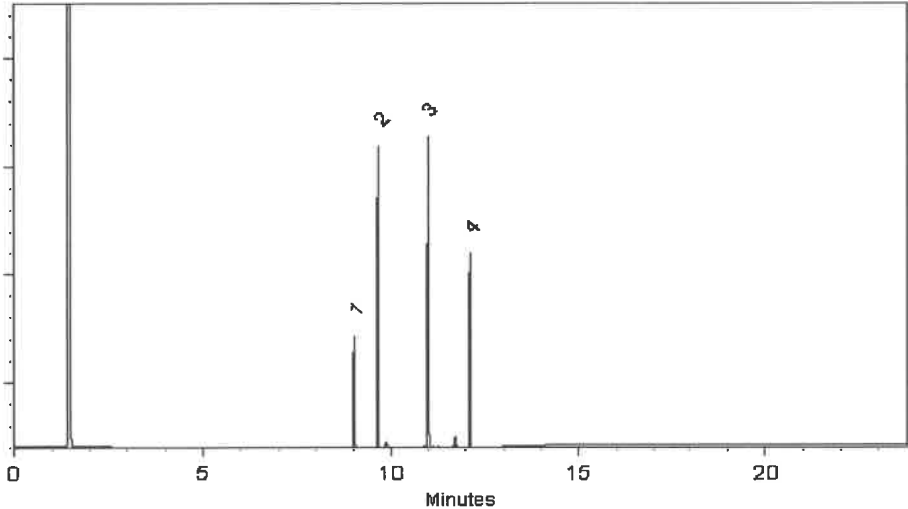
**Inj. Temp:**  
250°C

**Det. Temp:**  
330°C

**Det. Type:**  
FID

**Split Vent:**  
10 ml/min.

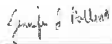
**Inj. Vol**  
1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

  
Ethan Winiarski - Operations Tech I

Date Mixed: 19-Jun-2024      Balance Serial # 1128353505

  
Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 26-Jun-2024

Manufactured under Restek's ISO 9001:2015  
Registered Quality System  
Certificate #FM 80397



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## CERTIFIED REFERENCE MATERIAL

# Certificate of Analysis

chromatographic plus



### FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

*This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.*

**Catalog No. :** 31206 **Lot No.:** 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 Skyline Blvd  
Santa Rosa, CA 95403

(707)525-5788  
(800)878-7654 Toll Free  
(707)545-7901 Fax

Manufacturer's Quality System  
Audited & Registered  
by TUV USA to ISO 9001:2015

Date Received: \_\_\_\_\_

## Certificate of Analysis

Rev 0

Page 1 of 1

|              |          |          |                    |            |                                           |
|--------------|----------|----------|--------------------|------------|-------------------------------------------|
| Catalog No.: | Lot No.: | Storage: | Solvent:           | Exp. Date: | Description:                              |
| Z-110816-01  | 531243   | ≤ -10 °C | Methylene Chloride | 1/2/2030   | 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       | 337.7.4P         | 997 ± 5.81          |
| benzidine   | 92-87-5   | 99.9       | 124.18.6.2P      | 993.8 ± 5.78        |
| caprolactam | 105-60-2  | 99.9       | 271.1.6P         | 999 ± 5.82          |

513057 } AC  
↓  
513061 } 1/16/25

\*Not a certified value

Manufactured by o2si smart solutions, Accredited to ISO 9001:2008 by NSF and ISO/IEC 17025:2005 (Certification No. 3031.01) and ISO Guide 34:2009 (Certification No. 3031.02) by A2LA

Certified By: \_\_\_\_\_

*Melissa Workoff*

Melissa Workoff  
Chemist

All weights are traceable through N. I. S. T. Test No. 822/264157-00.  
Concentration (correct for purity) and uncertainty (95% confidence) values listed are determined gravimetrically.



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## CERTIFIED REFERENCE MATERIAL

# Certificate of Analysis

chromatographic plus



### FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

*This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.*

Catalog No. : 31850

Lot No.: A0221014

Description : 8270 MegaMix®

8270 MegaMix® 500-1000 µg/mL, Methylene Chloride, 1mL/ampul

Container Size : 2 mL

Pkg Amt: > 1 mL

Expiration Date : November 30, 2025

Storage: 0°C or colder

Handling: Sonication required. Mix is photosensitive.

Ship: Ambient

513088 }  
↓  
513117 } 5/20/25.

### CERTIFIED VALUES

| Elution Order | Compound                     | CAS #    | Lot #       | Purity | Grav. Conc. (weight/volume) | Expanded Uncertainty * (95% C.L.; K=2) |
|---------------|------------------------------|----------|-------------|--------|-----------------------------|----------------------------------------|
| 1             | Pyridine                     | 110-86-1 | SHBR4811    | 99%    | 1,005.2 µg/mL               | +/- 36.5730                            |
| 2             | N-Nitrosodimethylamine       | 62-75-9  | S241226RSR  | 99%    | 1,005.5 µg/mL               | +/- 36.5848                            |
| 3             | Phenol                       | 108-95-2 | MKCK1120    | 99%    | 1,005.3 µg/mL               | +/- 36.5780                            |
| 4             | Aniline                      | 62-53-3  | X22F726     | 99%    | 1,005.4 µg/mL               | +/- 36.5816                            |
| 5             | Bis(2-chloroethyl)ether      | 111-44-4 | 002891T24M  | 99%    | 1,004.7 µg/mL               | +/- 36.5562                            |
| 6             | 2-Chlorophenol               | 95-57-8  | STBJ3909    | 99%    | 1,005.3 µg/mL               | +/- 36.5766                            |
| 7             | 1,3-Dichlorobenzene          | 541-73-1 | BCCD5315    | 99%    | 1,004.6 µg/mL               | +/- 36.5530                            |
| 8             | 1,4-Dichlorobenzene          | 106-46-7 | MKBS7929V   | 99%    | 1,006.3 µg/mL               | +/- 36.6125                            |
| 9             | Benzyl alcohol               | 100-51-6 | SHBK5469    | 99%    | 1,005.5 µg/mL               | +/- 36.5853                            |
| 10            | 1,2-Dichlorobenzene          | 95-50-1  | SHBL6287    | 99%    | 1,004.6 µg/mL               | +/- 36.5507                            |
| 11            | 2-Methylphenol (o-cresol)    | 95-48-7  | SHBN7598    | 99%    | 1,004.8 µg/mL               | +/- 36.5575                            |
| 12            | 2,2'-oxybis(1-chloropropane) | 108-60-1 | 29-MAR-45-5 | 99%    | 1,005.4 µg/mL               | +/- 36.5803                            |
| 13            | 3-Methylphenol (m-cresol)    | 108-39-4 | STBL3873    | 99%    | 502.7 µg/mL                 | +/- 18.2888                            |
| 14            | 4-Methylphenol (p-cresol)    | 106-44-5 | SHBN3411    | 99%    | 502.6 µg/mL                 | +/- 18.2869                            |
| 15            | N-Nitroso-di-n-propylamine   | 621-64-7 | N63MG       | 99%    | 1,004.6 µg/mL               | +/- 36.5502                            |
| 16            | Hexachloroethane             | 67-72-1  | DAXRI       | 99%    | 1,004.6 µg/mL               | +/- 36.5530                            |
| 17            | Nitrobenzene                 | 98-95-3  | 10224044    | 99%    | 1,005.3 µg/mL               | +/- 36.5780                            |

|    |                                               |           |                  |     |         |       |             |    |
|----|-----------------------------------------------|-----------|------------------|-----|---------|-------|-------------|----|
| 18 | Isophorone                                    | 78-59-1   | MKCR3249         | 99% | 1,004.6 | µg/mL | +/- 36.5511 |    |
| 19 | 2-Nitrophenol                                 | 88-75-5   | RP230710         | 99% | 1,005.7 | µg/mL | +/- 36.5916 |    |
| 20 | 2,4-Dimethylphenol                            | 105-67-9  | DIRAF            | 99% | 1,004.9 | µg/mL | +/- 36.5612 |    |
| 21 | Bis(2-chloroethoxy)methane                    | 111-91-1  | 15705100         | 99% | 1,004.3 | µg/mL | +/- 36.5402 | 1  |
| 22 | 2,4-Dichlorophenol                            | 120-83-2  | BCCK6969         | 99% | 1,004.7 | µg/mL | +/- 36.5571 | 2  |
| 23 | 1,2,4-Trichlorobenzene                        | 120-82-1  | SHBP5900         | 99% | 1,004.6 | µg/mL | +/- 36.5516 | 3  |
| 24 | Naphthalene                                   | 91-20-3   | STBL1057         | 99% | 1,006.8 | µg/mL | +/- 36.6335 | 4  |
| 25 | 4-Chloroaniline                               | 106-47-8  | BCCJ3217         | 99% | 1,005.9 | µg/mL | +/- 36.5980 | 5  |
| 26 | Hexachlorobutadiene                           | 87-68-3   | X05J             | 98% | 1,004.1 | µg/mL | +/- 36.5328 | 6  |
| 27 | 4-Chloro-3-methylphenol                       | 59-50-7   | BCCD4461         | 99% | 1,005.4 | µg/mL | +/- 36.5793 | 7  |
| 28 | 2-Methylnaphthalene                           | 91-57-6   | STBL3028         | 99% | 1,006.3 | µg/mL | +/- 36.6144 | 8  |
| 29 | 1-Methylnaphthalene                           | 90-12-0   | 5234.00-8        | 98% | 990.2   | µg/mL | +/- 36.0269 | 9  |
| 30 | Hexachlorocyclopentadiene                     | 77-47-4   | 099063P13G       | 99% | 1,005.9 | µg/mL | +/- 36.5975 | 10 |
| 31 | 2,4,6-Trichlorophenol                         | 88-06-2   | STBK8870         | 99% | 1,004.7 | µg/mL | +/- 36.5566 | 11 |
| 32 | 2,4,5-Trichlorophenol                         | 95-95-4   | 3YFRE            | 97% | 1,004.7 | µg/mL | +/- 36.5571 | 12 |
| 33 | 2-Chloronaphthalene                           | 91-58-7   | RPN7O            | 99% | 1,005.3 | µg/mL | +/- 36.5757 | 13 |
| 34 | 2-Nitroaniline                                | 88-74-4   | RP240715RSR      | 99% | 1,004.8 | µg/mL | +/- 36.5584 | 14 |
| 35 | 1,4-Dinitrobenzene                            | 100-25-4  | RP240703RSR      | 99% | 1,004.5 | µg/mL | +/- 36.5475 | 15 |
| 36 | Acenaphthylene                                | 208-96-8  | 214935V18H       | 95% | 1,000.1 | µg/mL | +/- 36.3888 | 16 |
| 37 | 1,3-Dinitrobenzene                            | 99-65-0   | TRC3-1075941-2-1 | 99% | 1,004.9 | µg/mL | +/- 36.5616 | 17 |
| 38 | Dimethylphthalate                             | 131-11-3  | 358221L17K       | 99% | 1,004.5 | µg/mL | +/- 36.5489 | 18 |
| 39 | 2,6-Dinitrotoluene                            | 606-20-2  | BCCG1833         | 99% | 1,005.2 | µg/mL | +/- 36.5734 |    |
| 40 | 1,2-Dinitrobenzene                            | 528-29-0  | RP240701RSR      | 99% | 1,005.9 | µg/mL | +/- 36.6003 |    |
| 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 | +/- 36.5525 |    |
| 43 | 2,4-Dinitrophenol                             | 51-28-5   | D240927RSR       | 99% | 1,005.0 | µg/mL | +/- 36.5657 |    |
| 44 | Dibenzofuran                                  | 132-64-9  | MKCN1772         | 99% | 1,005.4 | µg/mL | +/- 36.5803 |    |
| 45 | 2,4-Dinitrotoluene                            | 121-14-2  | 102869V26E       | 99% | 1,005.4 | µg/mL | +/- 36.5803 |    |
| 46 | 4-Nitrophenol                                 | 100-02-7  | 20241120-1-AN    | 99% | 1,005.7 | µg/mL | +/- 36.5930 |    |
| 47 | 2,3,4,6-Tetrachlorophenol                     | 58-90-2   | PR-34476         | 99% | 1,004.9 | µg/mL | +/- 36.5616 |    |
| 48 | 2,3,5,6-Tetrachlorophenol                     | 935-95-5  | RP240523RSR      | 99% | 1,005.2 | µg/mL | +/- 36.5739 |    |
| 49 | Fluorene                                      | 86-73-7   | 10246250         | 98% | 1,005.8 | µg/mL | +/- 36.5948 |    |
| 50 | 4-Chlorophenyl phenyl ether                   | 7005-72-3 | 002531K02D       | 99% | 1,004.8 | µg/mL | +/- 36.5584 |    |
| 51 | Diethylphthalate                              | 84-66-2   | STBL3611         | 99% | 1,005.3 | µg/mL | +/- 36.5762 |    |
| 52 | 4-Nitroaniline                                | 100-01-6  | RP240830RSR      | 99% | 1,005.5 | µg/mL | +/- 36.5844 |    |
| 53 | 4,6-Dinitro-2-methylphenol (Dinitro-o-cresol) | 534-52-1  | S241008RSR       | 99% | 1,004.8 | µg/mL | +/- 36.5589 |    |

|    |                            |          |               |     |         |       |             |
|----|----------------------------|----------|---------------|-----|---------|-------|-------------|
| 54 | Diphenylamine              | 122-39-4 | MKCT1512      | 99% | 1,005.2 | µg/mL | +/- 36.5725 |
| 55 | Azobenzene                 | 103-33-3 | BCCL3292      | 99% | 1,004.7 | µg/mL | +/- 36.5566 |
| 56 | 4-Bromophenyl phenyl ether | 101-55-3 | STBH6361      | 99% | 1,005.6 | µg/mL | +/- 36.5875 |
| 57 | Hexachlorobenzene          | 118-74-1 | 15828800      | 99% | 1,005.3 | µg/mL | +/- 36.5789 |
| 58 | Pentachlorophenol          | 87-86-5  | RP240517RSR   | 99% | 1,005.4 | µg/mL | +/- 36.5825 |
| 59 | Phenanthrene               | 85-01-8  | MKCT3391      | 99% | 1,004.8 | µg/mL | +/- 36.5584 |
| 60 | Anthracene                 | 120-12-7 | MKCW9141      | 99% | 1,005.5 | µg/mL | +/- 36.5834 |
| 61 | Carbazole                  | 86-74-8  | 15630800      | 99% | 1,005.3 | µg/mL | +/- 36.5789 |
| 62 | Di-n-butylphthalate        | 84-74-2  | MKCN4337      | 99% | 1,005.5 | µg/mL | +/- 36.5848 |
| 63 | Fluoranthene               | 206-44-0 | A0458721      | 99% | 1,005.4 | µg/mL | +/- <0.0001 |
| 64 | Pyrene                     | 129-00-0 | BCCL8032      | 99% | 1,005.2 | µg/mL | +/- 36.5734 |
| 65 | Benzyl butyl phthalate     | 85-68-7  | X12I018       | 99% | 1,004.8 | µg/mL | +/- 36.5584 |
| 66 | Bis(2-ethylhexyl)adipate   | 103-23-1 | MKCR8567      | 99% | 1,004.5 | µg/mL | +/- 36.5480 |
| 67 | Benz(a)anthracene          | 56-55-3  | I60012022BAA  | 99% | 1,005.5 | µg/mL | +/- 36.5844 |
| 68 | Chrysene                   | 218-01-9 | RP241212RSR   | 99% | 1,005.5 | µg/mL | +/- 36.5848 |
| 69 | Bis(2-ethylhexyl)phthalate | 117-81-7 | MKCS8065      | 99% | 1,004.7 | µg/mL | +/- 36.5548 |
| 70 | Di-n-octyl phthalate       | 117-84-0 | 15817300      | 99% | 1,004.8 | µg/mL | +/- 36.5607 |
| 71 | Benzo(b)fluoranthene       | 205-99-2 | 022013B       | 99% | 1,005.1 | µg/mL | +/- 36.5716 |
| 72 | Benzo(k)fluoranthene       | 207-08-9 | 012022K       | 98% | 1,004.6 | µg/mL | +/- 36.5511 |
| 73 | Benzo(a)pyrene             | 50-32-8  | NQLXA         | 98% | 1,004.2 | µg/mL | +/- 36.5377 |
| 74 | Indeno(1,2,3-cd)pyrene     | 193-39-5 | 12-JKL-118-9  | 97% | 1,004.1 | µg/mL | +/- 36.5337 |
| 75 | Dibenz(a,h)anthracene      | 53-70-3  | 712061504-1-1 | 99% | 1,005.7 | µg/mL | +/- 36.5930 |
| 76 | Benzo(g,h,i)perylene       | 191-24-2 | RP241014RSR   | 98% | 1,005.4 | µg/mL | +/- 36.5814 |

\* 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.

## 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:**

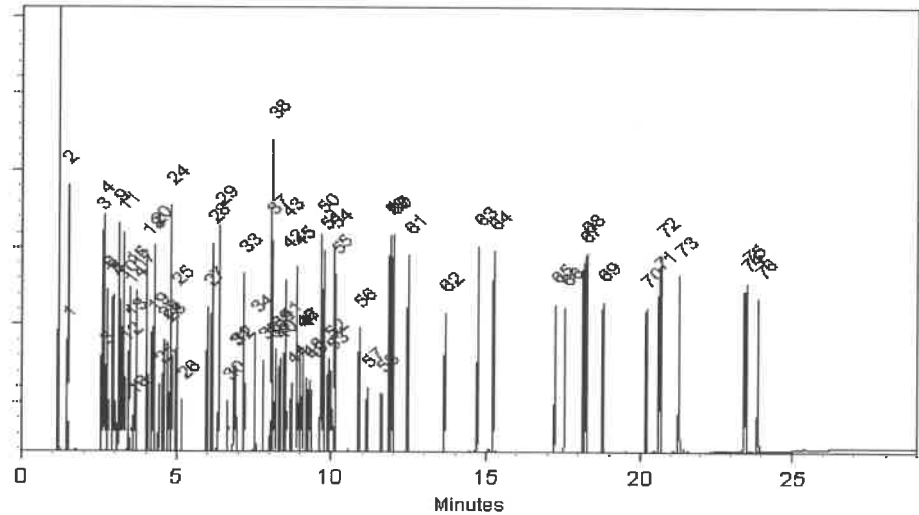
FID

**Split Vent:**

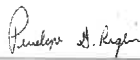
100 ml/min.

**Inj. Vol**

1µl

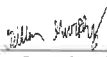


This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

  
Penelope Riglin - Operations Tech I

Date Mixed: 12-Jan-2025

Balance Serial # 1128360905

  
Dillan Murphy - Operations Technician I

Date Passed: 21-Jan-2025

Manufactured under Restek's ISO 9001:2015  
Registered Quality System  
Certificate #FM 80397



110 Benner Circle  
Bellefonte, PA 16823-8812  
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Fax: 1-814-353-1309

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CERTIFIED REFERENCE MATERIAL

# Certificate of Analysis

chromatographic plus



## FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

*This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.*

**Catalog No. :** 31853 **Lot No.:** A0218894  
**Description :** 1,4-dioxane  
1,4-Dioxane 2,000µg/mL, Methylene Chloride, 1mL/ampul  
**Container Size :** 2 mL **Pkg Amt:** > 1 mL  
**Expiration Date :** November 30, 2029 **Storage:** 0°C or colder  
**Ship:** Ambient

513118 } RC/  
↓  
513147 } 5/20/25.

## 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 | SHBQ1693 | 99%    | 2,002.4 µg/mL               | +/- 24.9202                            |

\* 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:**

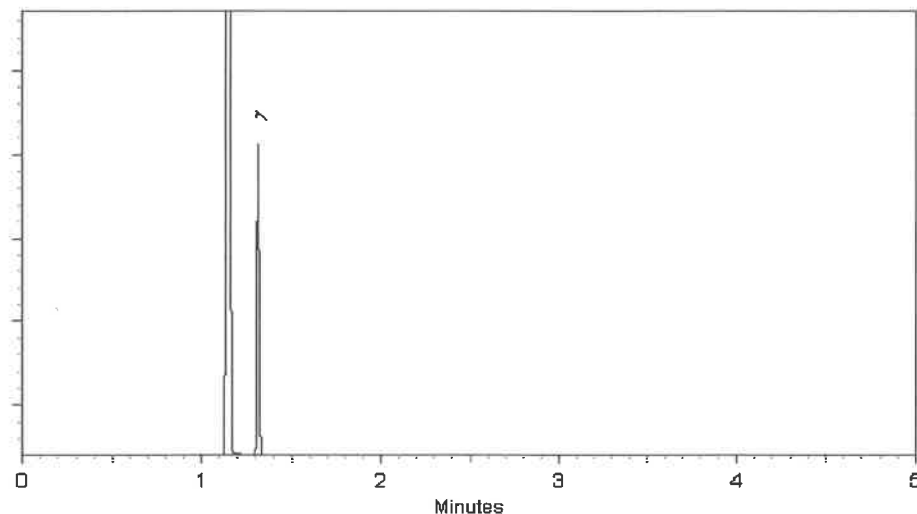
FID

**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.

Penelope Rignin - Operations Tech I

Date Mixed: 07-Nov-2024

Balance Serial # 1128360905

Dillan Murphy - Operations Technician I

Date Passed: 11-Nov-2024

Manufactured under Restek's ISO 9001:2015  
Registered Quality System  
Certificate #FM 80397



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## CERTIFIED REFERENCE MATERIAL

# Certificate of Analysis

chromatographic plus



### FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

*This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.*

**Catalog No. :** 31206 **Lot No.:** A0224359

**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 :** March 31, 2031 **Storage:** 10°C or colder

**Handling:** Sonication required. Mix is photosensitive. **Ship:** Ambient

S13168  
↓  
S13197 } AC  
6/9/25

### 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%    | 2,000.0 µg/mL               | +/- 90.0812                            |
| 2             | Naphthalene-d8         | 1146-65-2  | M-2180   | 99%    | 2,000.8 µg/mL               | +/- 90.1187                            |
| 3             | Acenaphthene-d10       | 15067-26-2 | PR-33507 | 99%    | 2,000.8 µg/mL               | +/- 90.1187                            |
| 4             | Phenanthrene-d10       | 1517-22-2  | PR-34099 | 99%    | 2,000.0 µg/mL               | +/- 90.0812                            |
| 5             | Chrysene-d12           | 1719-03-5  | PR-33506 | 99%    | 2,000.8 µg/mL               | +/- 90.1187                            |
| 6             | Perylene-d12           | 1520-96-3  | PR-33205 | 99%    | 2,000.0 µg/mL               | +/- 90.0812                            |

\* Expanded Uncertainty displayed in same units as Grav. Conc.

**Solvent:** Methylene chloride  
**CAS #** 75-09-2  
**Purity** 99%



110 Benner Circle  
Bellefonte, PA 16823-8812  
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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.:** A0228451

**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 :** August 31, 2027 **Storage:** 10°C or colder

**Handling:** This product is photosensitive. **Ship:** Ambient

S13239 } RC/  
↓  
S13268 } 08/06/25

## 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   | S250226RSR | 99%    | 1,006.0 µg/mL               | +/- 23.0947                            |
| 2           | Atrazine               | 1912-24-9 | 5FYWL      | 99%    | 1,007.0 µg/mL               | +/- 23.1176                            |
| 3           | Benzidine              | 92-87-5   | S250227ECS | 99%    | 1,003.0 µg/mL               | +/- 23.0258                            |
| 4           | epsilon-Caprolactam    | 105-60-2  | Y16H012    | 99%    | 1,003.0 µg/mL               | +/- 23.0258                            |

**Solvent:** Methylene chloride  
**CAS #** 75-09-2  
**Purity** 99%

Tom Sucka - Mix Technician

**Date Mixed:** 01-Aug-2025

**Balance:** 1128360905

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.

*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.:** A0229652

**Description :** 8270 MegaMix®  
8270 MegaMix® 500-1000 µg/mL, Methylene Chloride, 1mL/ampul

**Container Size :** 2 mL **Pkg Amt:** > 1 mL

**Expiration Date :** July 31, 2026 **Storage:** 0°C or colder

**Handling:** Sonication required. Mix is photosensitive. **Ship:** Ambient

513299 } RC/  
↓ 10/17/25  
513328 }

### CERTIFIED VALUES

| Elution Order | Compound                     | CAS #    | Lot #       | Purity | Grav. Conc. (weight/volume) | Expanded Uncertainty * (95% C.L.; K=2) |
|---------------|------------------------------|----------|-------------|--------|-----------------------------|----------------------------------------|
| 1             | Pyridine                     | 110-86-1 | SHBR4811    | 99%    | 1,004.9 µg/mL               | +/- 36.5621                            |
| 2             | N-Nitrosodimethylamine       | 62-75-9  | S250717RSR  | 99%    | 1,004.5 µg/mL               | +/- 36.5484                            |
| 3             | Phenol                       | 108-95-2 | MKCT5446    | 99%    | 1,003.5 µg/mL               | +/- 36.5120                            |
| 4             | Aniline                      | 62-53-3  | X22F726     | 99%    | 1,004.8 µg/mL               | +/- 36.5575                            |
| 5             | Bis(2-chloroethyl)ether      | 111-44-4 | 002891T24M  | 99%    | 1,003.6 µg/mL               | +/- 36.5166                            |
| 6             | 2-Chlorophenol               | 95-57-8  | STBK4742    | 99%    | 1,004.5 µg/mL               | +/- 36.5484                            |
| 7             | 1,3-Dichlorobenzene          | 541-73-1 | STBL1702    | 99%    | 1,003.8 µg/mL               | +/- 36.5211                            |
| 8             | 1,4-Dichlorobenzene          | 106-46-7 | MKBS7929V   | 99%    | 1,003.8 µg/mL               | +/- 36.5211                            |
| 9             | Benzyl alcohol               | 100-51-6 | 094986W07G  | 99%    | 1,003.8 µg/mL               | +/- 36.5211                            |
| 10            | 1,2-Dichlorobenzene          | 95-50-1  | SHBR4446    | 99%    | 1,004.9 µg/mL               | +/- 36.5621                            |
| 11            | 2-Methylphenol (o-cresol)    | 95-48-7  | SHBN7598    | 99%    | 1,004.3 µg/mL               | +/- 36.5393                            |
| 12            | 2,2'-oxybis(1-chloropropane) | 108-60-1 | RP250904RSR | 99%    | 1,005.0 µg/mL               | +/- 36.5666                            |
| 13            | 3-Methylphenol (m-cresol)    | 108-39-4 | STBL3873    | 99%    | 502.4 µg/mL                 | +/- 18.2788                            |
| 14            | 4-Methylphenol (p-cresol)    | 106-44-5 | SHBQ7653    | 99%    | 502.3 µg/mL                 | +/- 18.2742                            |
| 15            | N-Nitroso-di-n-propylamine   | 621-64-7 | N63MG       | 99%    | 1,004.9 µg/mL               | +/- 36.5621                            |
| 16            | Hexachloroethane             | 67-72-1  | DAXRI       | 99%    | 1,003.9 µg/mL               | +/- 36.5257                            |
| 17            | Nitrobenzene                 | 98-95-3  | 10224044    | 99%    | 1,003.9 µg/mL               | +/- 36.5257                            |

|    |                                               |           |                  |     |         |       |             |
|----|-----------------------------------------------|-----------|------------------|-----|---------|-------|-------------|
| 18 | Isophorone                                    | 78-59-1   | MKCR3249         | 99% | 1,004.8 | µg/mL | +/- 36.5575 |
| 19 | 2-Nitrophenol                                 | 88-75-5   | RP230710         | 99% | 1,003.6 | µg/mL | +/- 36.5166 |
| 20 | 2,4-Dimethylphenol                            | 105-67-9  | DIRAF            | 99% | 1,004.1 | µg/mL | +/- 36.5348 |
| 21 | Bis(2-chloroethoxy)methane                    | 111-91-1  | 15705100         | 99% | 1,004.5 | µg/mL | +/- 36.5484 |
| 22 | 2,4-Dichlorophenol                            | 120-83-2  | BCCK6969         | 99% | 1,004.8 | µg/mL | +/- 36.5575 |
| 23 | 1,2,4-Trichlorobenzene                        | 120-82-1  | SHBR1701         | 99% | 1,004.0 | µg/mL | +/- 36.5302 |
| 24 | Naphthalene                                   | 91-20-3   | STBL1057         | 99% | 1,004.0 | µg/mL | +/- 36.5302 |
| 25 | 4-Chloroaniline                               | 106-47-8  | BCCJ3217         | 99% | 1,004.5 | µg/mL | +/- 36.5484 |
| 26 | Hexachlorobutadiene                           | 87-68-3   | X05J             | 98% | 1,002.7 | µg/mL | +/- 36.4816 |
| 27 | 4-Chloro-3-methylphenol                       | 59-50-7   | BCCK5906         | 99% | 1,004.3 | µg/mL | +/- 36.5393 |
| 28 | 2-Methylnaphthalene                           | 91-57-6   | STBL3028         | 99% | 1,000.5 | µg/mL | +/- 36.4029 |
| 29 | 1-Methylnaphthalene                           | 90-12-0   | 5234.00-8        | 98% | 1,000.0 | µg/mL | +/- 36.3847 |
| 30 | Hexachlorocyclopentadiene                     | 77-47-4   | 099063P13G       | 99% | 1,004.0 | µg/mL | +/- 36.5302 |
| 31 | 2,4,6-Trichlorophenol                         | 88-06-2   | STBK8870         | 99% | 1,003.5 | µg/mL | +/- 36.5120 |
| 32 | 2,4,5-Trichlorophenol                         | 95-95-4   | 3YFRE            | 97% | 1,003.6 | µg/mL | +/- 36.5152 |
| 33 | 2-Chloronaphthalene                           | 91-58-7   | RPN7O            | 99% | 1,003.6 | µg/mL | +/- 36.5166 |
| 34 | 2-Nitroaniline                                | 88-74-4   | RP250625RSR      | 99% | 1,003.8 | µg/mL | +/- 36.5211 |
| 35 | 1,4-Dinitrobenzene                            | 100-25-4  | RP250401RSR      | 99% | 1,004.6 | µg/mL | +/- 36.5530 |
| 36 | Acenaphthylene                                | 208-96-8  | 214935V18H       | 95% | 1,000.4 | µg/mL | +/- 36.3974 |
| 37 | 1,3-Dinitrobenzene                            | 99-65-0   | TRC3-1075941-2-1 | 99% | 1,004.8 | µg/mL | +/- 36.5575 |
| 38 | Dimethylphthalate                             | 131-11-3  | 358221L17K       | 99% | 1,003.5 | µg/mL | +/- 36.5120 |
| 39 | 2,6-Dinitrotoluene                            | 606-20-2  | BCCG1833         | 99% | 1,004.6 | µg/mL | +/- 36.5530 |
| 40 | 1,2-Dinitrobenzene                            | 528-29-0  | RP250203RSR      | 99% | 1,002.6 | µg/mL | +/- 36.4802 |
| 41 | Acenaphthene                                  | 83-32-9   | MKCV8166         | 99% | 1,000.0 | µg/mL | +/- 36.3847 |
| 42 | 3-Nitroaniline                                | 99-09-2   | RP240708RSR      | 99% | 1,003.8 | µg/mL | +/- 36.5211 |
| 43 | 2,4-Dinitrophenol                             | 51-28-5   | D240927RSR       | 99% | 1,004.1 | µg/mL | +/- 36.5348 |
| 44 | Dibenzofuran                                  | 132-64-9  | MKCW3845         | 99% | 1,003.6 | µg/mL | +/- 36.5166 |
| 45 | 2,4-Dinitrotoluene                            | 121-14-2  | 102869V26E       | 99% | 1,003.8 | µg/mL | +/- 36.5211 |
| 46 | 4-Nitrophenol                                 | 100-02-7  | 20241120-1-AN    | 99% | 1,003.0 | µg/mL | +/- 36.4938 |
| 47 | 2,3,4,6-Tetrachlorophenol                     | 58-90-2   | PR-34476         | 99% | 1,003.8 | µg/mL | +/- 36.5211 |
| 48 | 2,3,5,6-Tetrachlorophenol                     | 935-95-5  | RP250724RSR      | 99% | 1,003.1 | µg/mL | +/- 36.4984 |
| 49 | Fluorene                                      | 86-73-7   | 10246250         | 98% | 1,002.9 | µg/mL | +/- 36.4905 |
| 50 | 4-Chlorophenyl phenyl ether                   | 7005-72-3 | 002531K02D       | 99% | 1,004.3 | µg/mL | +/- 36.5393 |
| 51 | Diethylphthalate                              | 84-66-2   | 223219R19C       | 99% | 1,004.8 | µg/mL | +/- 36.5575 |
| 52 | 4-Nitroaniline                                | 100-01-6  | RP240830RSR      | 99% | 1,004.0 | µg/mL | +/- 36.5302 |
| 53 | 4,6-Dinitro-2-methylphenol (Dinitro-o-cresol) | 534-52-1  | S250805RSR       | 99% | 1,004.8 | µg/mL | +/- 36.5575 |

|    |                            |          |               |     |         |       |             |
|----|----------------------------|----------|---------------|-----|---------|-------|-------------|
| 54 | Diphenylamine              | 122-39-4 | MKCT1512      | 99% | 1,004.9 | µg/mL | +/- 36.5621 |
| 55 | Azobenzene                 | 103-33-3 | BCCL3292      | 99% | 1,003.9 | µg/mL | +/- 36.5257 |
| 56 | 4-Bromophenyl phenyl ether | 101-55-3 | STBH6361      | 99% | 1,003.9 | µg/mL | +/- 36.5257 |
| 57 | Hexachlorobenzene          | 118-74-1 | 16302300      | 99% | 1,004.5 | µg/mL | +/- 36.5484 |
| 58 | Pentachlorophenol          | 87-86-5  | RP240411RSR   | 99% | 1,004.9 | µg/mL | +/- 36.5621 |
| 59 | Phenanthrene               | 85-01-8  | MKCV8193      | 99% | 1,003.8 | µg/mL | +/- 36.5211 |
| 60 | Anthracene                 | 120-12-7 | MKCW9141      | 99% | 1,003.3 | µg/mL | +/- 36.5029 |
| 61 | Carbazole                  | 86-74-8  | 15821400      | 99% | 1,003.1 | µg/mL | +/- 36.4984 |
| 62 | Di-n-butylphthalate        | 84-74-2  | MKCN4337      | 99% | 1,004.6 | µg/mL | +/- 36.5530 |
| 63 | Fluoranthene               | 206-44-0 | A0458721      | 99% | 1,004.8 | µg/mL | +/- 36.5575 |
| 64 | Pyrene                     | 129-00-0 | BCCL8032      | 99% | 1,003.8 | µg/mL | +/- 36.5211 |
| 65 | Benzyl butyl phthalate     | 85-68-7  | X12I018       | 99% | 1,004.9 | µg/mL | +/- 36.5621 |
| 66 | Bis(2-ethylhexyl)adipate   | 103-23-1 | MKCM1988      | 99% | 1,003.4 | µg/mL | +/- 36.5075 |
| 67 | Benz(a)anthracene          | 56-55-3  | I80012022BAA  | 99% | 1,004.3 | µg/mL | +/- 36.5393 |
| 68 | Chrysene                   | 218-01-9 | RP250815RSR   | 99% | 1,003.9 | µg/mL | +/- 36.5257 |
| 69 | Bis(2-ethylhexyl)phthalate | 117-81-7 | MKCS8065      | 99% | 1,004.5 | µg/mL | +/- 36.5484 |
| 70 | Di-n-octyl phthalate       | 117-84-0 | 16197600      | 99% | 1,004.4 | µg/mL | +/- 36.5439 |
| 71 | Benzo(b)fluoranthene       | 205-99-2 | 0225BF        | 99% | 1,005.4 | µg/mL | +/- 36.5803 |
| 72 | Benzo(k)fluoranthene       | 207-08-9 | 012022K       | 99% | 1,004.5 | µg/mL | +/- 36.5484 |
| 73 | Benzo(a)pyrene             | 50-32-8  | NQLXA         | 98% | 1,002.4 | µg/mL | +/- 36.4726 |
| 74 | Indeno(1,2,3-cd)pyrene     | 193-39-5 | 17-YMK-40-2   | 99% | 1,004.0 | µg/mL | +/- 36.5302 |
| 75 | Dibenz(a,h)anthracene      | 53-70-3  | 712215450-1-1 | 99% | 1,003.5 | µg/mL | +/- 36.5120 |
| 76 | Benzo(g,h,i)perylene       | 191-24-2 | RP250501RSR   | 98% | 1,003.0 | µg/mL | +/- 36.4949 |

\* 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.

## 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:**

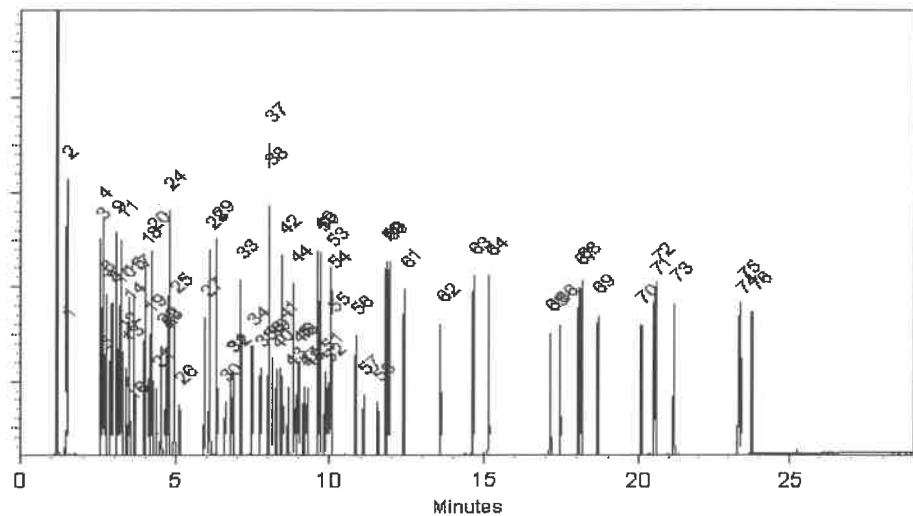
FID

**Split Vent:**

100 ml/min.

**Inj. Vol**

1µl

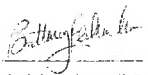


This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

  
Dakota Parson - Operations Technician I

**Date Mixed:** 04-Sep-2025

**Balance Serial #** B345965662

  
Brittany Federinko - Operations Tech II

**Date Passed:** 15-Sep-2025

Manufactured under Restek's ISO 9001:2015  
Registered Quality System  
Certificate #FM 80397



# SHIPPING DOCUMENTS

- 1
- 2
- 3
- 4
- 5
- 6
- 7
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- 18

**CHEMTECH**

CHAIN OF CUSTODY RECORD

284 Sheffield Street, Mountainside, NJ 07092

(908) 789-8900 Fax: (908) 78-8922

www.chemtech.net

Chemtech Project Number:

Q 3691

COC Number:

## CLIENT INFORMATION

COMPANY: Tetra Tech

ADDRESS: 4433 Corporation Ln, Suite 300

CITY: Virginia Beach STATE: VA ZIP: 23462

ATTENTION: Ernie Wu

PHONE: 757-466-4901

FAX: 757-461-4148

## PROJECT INFORMATION

PROJECT NAME: NWIRP Bethpage

PROJECT #: 112G08005-WE13 LOCATION: RW7B

PROJECT MANAGER: Ernie Wu

E-MAIL: ernie.wu@tetrattech.com

PHONE: 757-466-4901

FAX: 757-461-4148

## BILLING INFORMATION

BILL TO:

PO#

ADDRESS:

CITY:

STATE:

ZIP:

ATTENTION:

PHONE:

## ANALYSIS

1,4-Dioxane SW846 8270  
SIM

1

2

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9

## DATA TURNAROUND INFORMATION

FAX: 10 DAYS\*

HARD COPY: 10 DAYS\*

EDD 10 DAYS\*

\* TO BE APPROVED BY CHEMTECH

STANDARD TURNAROUND TIME IS 10 BUSINESS DAYS

## DATA DELIVERABLE INFORMATION

☐ RESEULTS ONLY☐ RESULTS + QC☐ New Jersey REDUCED☐ New Jersey CLP☐ EDD Format☐ USEPA CLP☐ New York State ASP "B"☐ New York State ASP "A"☐ Other

## PRESERVATIVES

## COMMENTS

<-- Specify Preservatives  
A-HCl B-HNO3  
C-H2SO4 D-NaOH  
E-ICE F-OtherCHEMTECH  
SAMPLE  
IDPROJECT  
SAMPLE IDENTIFICATIONSAMPLE  
MATRIXSAMPLE  
TYPE  
COMP GRABSAMPLE  
COLLECTION

DATE

TIME

# of Bottles

1

2

3

4

5

6

7

8

9

1.

RW7-SP100-20251118

GW

x

11/18/25

12:15

1

x

2.

RW7-SP201-20251118

GW

x

11/18/25

12:17

1

x

3.

RW7-SP302-20251118

GW

x

11/18/25

12:27

1

x

4.

RW7-SP303-20251118

GW

x

11/18/25

12:29

1

x

5.

6.

7.

8.

9.

10.

## SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESSION INCLUDING COURIER DELIVERY

RELINQUISHED BY SAMPLER

DATE/TIME

RECEIVED BY

1. *U. St. W.*

11/19/25/1300

1. *[Signature]*

RELINQUISHED BY

DATE/TIME

RECEIVED BY

2. *FedEx*

11-20-25

2. *[Signature]*

RELINQUISHED BY

DATE/TIME

RECEIVED FOR LAB BY

3.

Conditions of bottles or coolers at receipt: ☐ Compliant ☐ Non Compliant☐ Cooler Temp 2-3°C

MeOH extraction requires an additional 4oz. Jar for percent solid

☐ Ice in Cooler? *y*

Comments:

Page \_\_\_\_ of \_\_\_\_

SHIPPED VIA: CLIENT: ☐ Hand Delivered ☐ OvernightCHEMTECH: ☐ Picked Up ☐ Overnight

Shipment Complete

☐ YES ☐ NO

WHITE - CHEMTECH COPY FOR RETURN TO CLIENT

YELLOW - CHEMTECH COPY

PINK - SAMPLER COPY

### Laboratory Certification

| Certified By    | License No.      |
|-----------------|------------------|
|                 |                  |
| Connecticut     | PH-0830          |
|                 |                  |
| DOD ELAP (ANAB) | L2219            |
|                 |                  |
| Maine           | 2024021          |
|                 |                  |
| Maryland        | 296              |
|                 |                  |
| New Hampshire   | 255425           |
|                 |                  |
| New Jersey      | 20012            |
|                 |                  |
| New York        | 11376            |
|                 |                  |
| Pennsylvania    | 68-00548         |
|                 |                  |
| Soil Permit     | 525-24-234-08441 |
|                 |                  |
| Texas           | TX-C25-00189     |
|                 |                  |
| Virginia        | 460312           |

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Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN112725\  
 Data File : BN038212.D  
 Acq On : 26 Nov 2025 20:35  
 Operator : RC/JU  
 Sample : SSTDICC0.1  
 Misc :  
 ALS Vial : 12 Sample Multiplier: 1

Instrument :  
 BNA\_N  
 ClientSampleId :  
 SSTDICC0.1

Quant Time: Nov 28 20:54:05 2025  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\8270-SIM-BN112725.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Fri Nov 28 20:22:09 2025  
 Response via : Initial Calibration

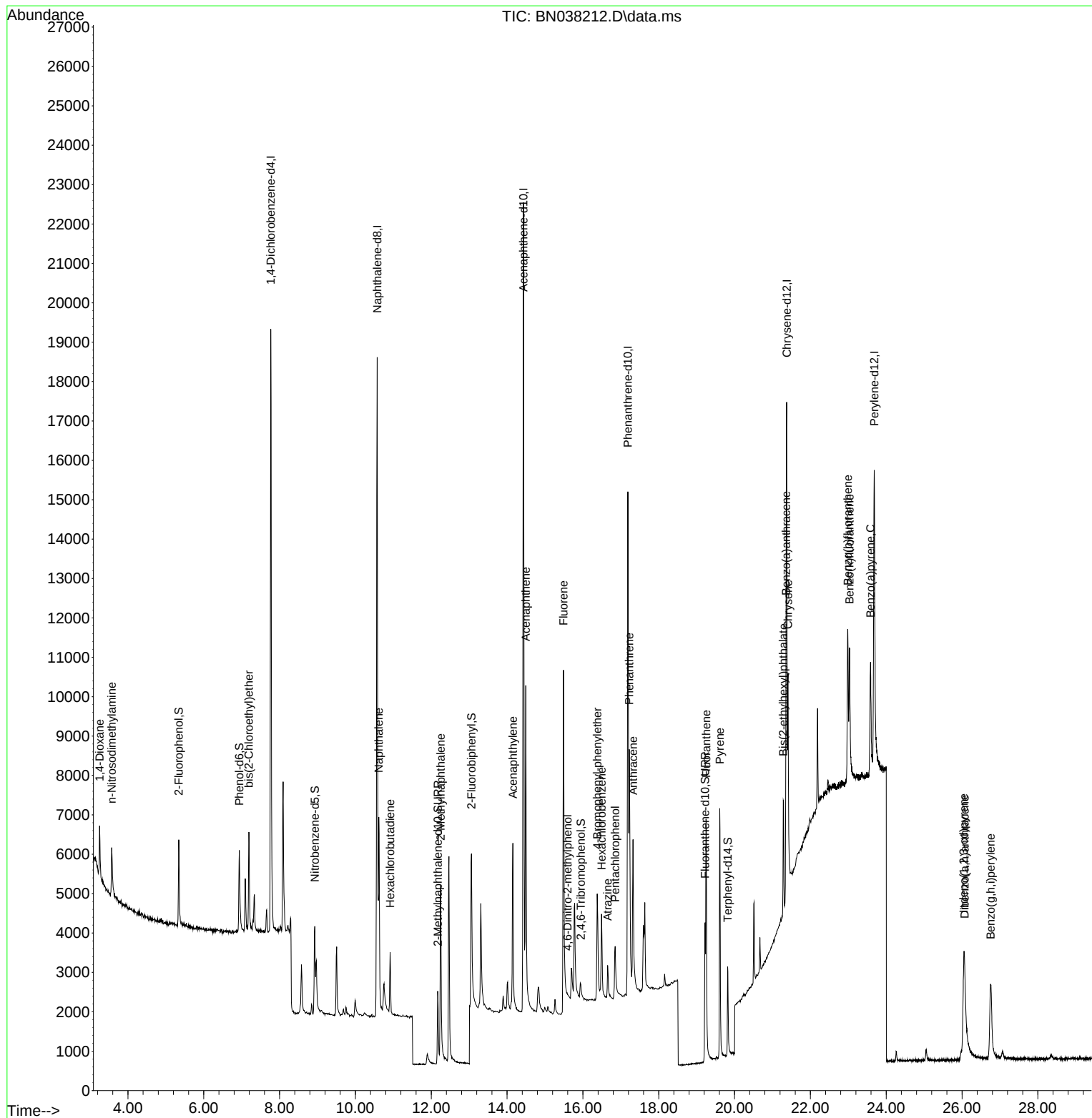
| Compound                      | R.T.   | QIon | Response | Conc  | Units | Dev(Min)  |
|-------------------------------|--------|------|----------|-------|-------|-----------|
| Internal Standards            |        |      |          |       |       |           |
| 1) 1,4-Dichlorobenzene-d4     | 7.768  | 152  | 8004     | 0.400 | ng    | 0.00      |
| 7) Naphthalene-d8             | 10.573 | 136  | 24261    | 0.400 | ng    | 0.00      |
| 13) Acenaphthene-d10          | 14.430 | 164  | 13487    | 0.400 | ng    | 0.00      |
| 19) Phenanthrene-d10          | 17.186 | 188  | 22239    | 0.400 | ng    | 0.00      |
| 29) Chrysene-d12              | 21.375 | 240  | 12844    | 0.400 | ng    | # 0.00    |
| 35) Perylene-d12              | 23.683 | 264  | 12898    | 0.400 | ng    | 0.00      |
| System Monitoring Compounds   |        |      |          |       |       |           |
| 4) 2-Fluorophenol             | 5.341  | 112  | 2018     | 0.108 | ng    | 0.00      |
| 5) Phenol-d6                  | 6.937  | 99   | 2361     | 0.101 | ng    | 0.00      |
| 8) Nitrobenzene-d5            | 8.929  | 82   | 2243     | 0.116 | ng    | 0.01      |
| 11) 2-Methylnaphthalene-d10   | 12.172 | 152  | 3243     | 0.094 | ng    | 0.00      |
| 14) 2,4,6-Tribromophenol      | 15.945 | 330  | 357      | 0.084 | ng    | 0.01      |
| 15) 2-Fluorobiphenyl          | 13.062 | 172  | 5461     | 0.105 | ng    | 0.01      |
| 27) Fluoranthene-d10          | 19.220 | 212  | 4740     | 0.098 | ng    | 0.00      |
| 31) Terphenyl-d14             | 19.819 | 244  | 2901     | 0.098 | ng    | 0.00      |
| Target Compounds              |        |      |          |       |       |           |
| 2) 1,4-Dioxane                | 3.254  | 88   | 985      | 0.117 | ng    | Qvalue 90 |
| 3) n-Nitrosodimethylamine     | 3.572  | 42   | 1028     | 0.099 | ng    | # 95      |
| 6) bis(2-Chloroethyl)ether    | 7.190  | 93   | 2134     | 0.095 | ng    | 95        |
| 9) Naphthalene                | 10.616 | 128  | 6988     | 0.104 | ng    | 96        |
| 10) Hexachlorobutadiene       | 10.915 | 225  | 1231     | 0.107 | ng    | # 97      |
| 12) 2-Methylnaphthalene       | 12.248 | 142  | 4222     | 0.095 | ng    | 97        |
| 16) Acenaphthylene            | 14.152 | 152  | 5921     | 0.098 | ng    | 100       |
| 17) Acenaphthene              | 14.495 | 154  | 4196     | 0.100 | ng    | 97        |
| 18) Fluorene                  | 15.489 | 166  | 5207     | 0.096 | ng    | 100       |
| 20) 4,6-Dinitro-2-methylph... | 15.597 | 198  | 101      | 0.156 | ng    | # 1       |
| 21) 4-Bromophenyl-phenylether | 16.379 | 248  | 1492     | 0.097 | ng    | # 77      |
| 22) Hexachlorobenzene         | 16.491 | 284  | 2097     | 0.111 | ng    | 98        |
| 23) Atrazine                  | 16.652 | 200  | 918      | 0.093 | ng    | # 89      |
| 24) Pentachlorophenol         | 16.851 | 266  | 1169     | 0.225 | ng    | 99        |
| 25) Phenanthrene              | 17.223 | 178  | 6934     | 0.099 | ng    | 99        |
| 26) Anthracene                | 17.322 | 178  | 5536     | 0.093 | ng    | 100       |
| 28) Fluoranthene              | 19.253 | 202  | 6527     | 0.097 | ng    | 99        |
| 30) Pyrene                    | 19.610 | 202  | 6634     | 0.103 | ng    | 100       |
| 32) Benzo(a)anthracene        | 21.358 | 228  | 4241     | 0.097 | ng    | 97        |
| 33) Chrysene                  | 21.411 | 228  | 5593     | 0.109 | ng    | 98        |
| 34) Bis(2-ethylhexyl)phtha... | 21.286 | 149  | 3169     | 0.133 | ng    | # 99      |
| 36) Indeno(1,2,3-cd)pyrene    | 26.045 | 276  | 5633     | 0.094 | ng    | # 92      |
| 37) Benzo(b)fluoranthene      | 22.987 | 252  | 5040     | 0.095 | ng    | # 56      |
| 38) Benzo(k)fluoranthene      | 23.031 | 252  | 5245     | 0.095 | ng    | # 63      |
| 39) Benzo(a)pyrene            | 23.587 | 252  | 4558     | 0.103 | ng    | # 40      |
| 40) Dibenzo(a,h)anthracene    | 26.069 | 278  | 4077     | 0.090 | ng    | # 68      |
| 41) Benzo(g,h,i)perylene      | 26.753 | 276  | 2263     | 0.042 | ng    | # 85      |

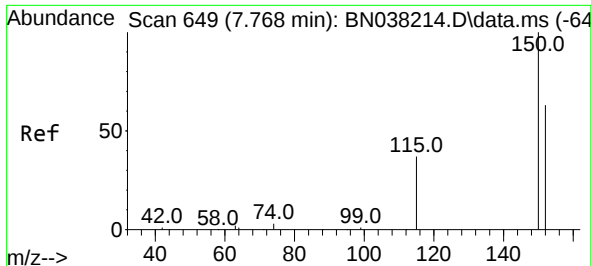
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Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN112725\  
Data File : BN038212.D  
Acq On : 26 Nov 2025 20:35  
Operator : RC/JU  
Sample : SSTDICC0.1  
Misc :  
ALS Vial : 12 Sample Multiplier: 1

Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC0.1

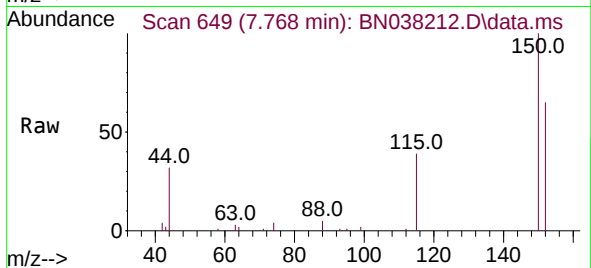
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Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\8270-SIM-BN112725.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Fri Nov 28 20:22:09 2025  
Response via : Initial Calibration



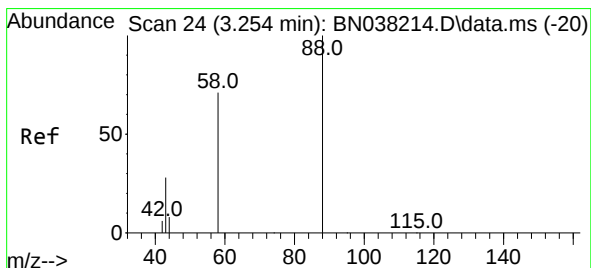
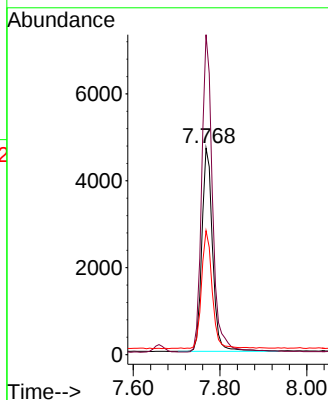
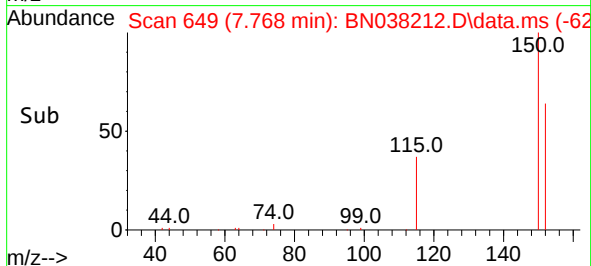


#1  
 1,4-Dichlorobenzene-d4  
 Concen: 0.400 ng  
 RT: 7.768 min Scan# 64  
 Delta R.T. -0.000 min  
 Lab File: BN038212.D  
 Acq: 26 Nov 2025 20:35

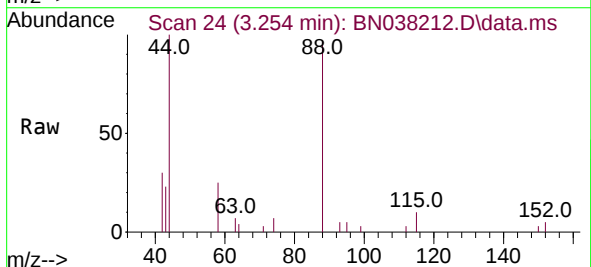
Instrument :  
 BNA\_N  
 ClientSampleId :  
 SSTDICC0.1



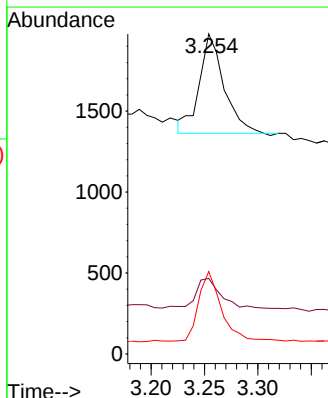
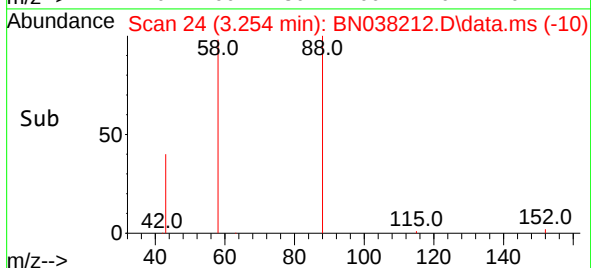
Tgt Ion:152 Resp: 8004  
 Ion Ratio Lower Upper  
 152 100  
 150 155.0 125.3 187.9  
 115 60.0 49.0 73.4

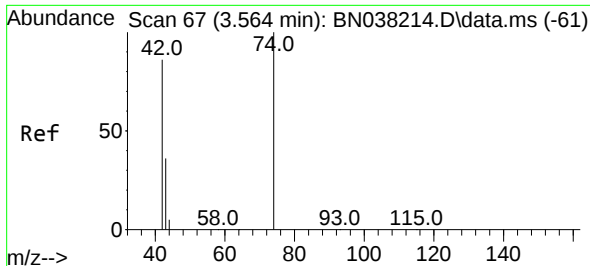


#2  
 1,4-Dioxane  
 Concen: 0.117 ng  
 RT: 3.254 min Scan# 24  
 Delta R.T. 0.000 min  
 Lab File: BN038212.D  
 Acq: 26 Nov 2025 20:35



Tgt Ion: 88 Resp: 985  
 Ion Ratio Lower Upper  
 88 100  
 43 31.3 24.8 37.2  
 58 64.6 61.1 91.7

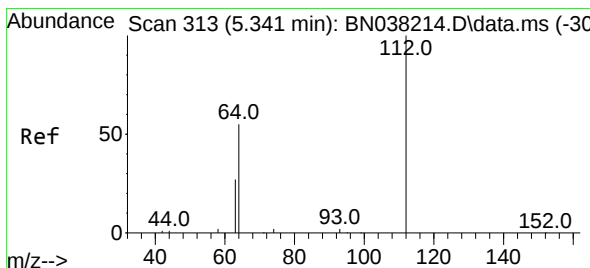
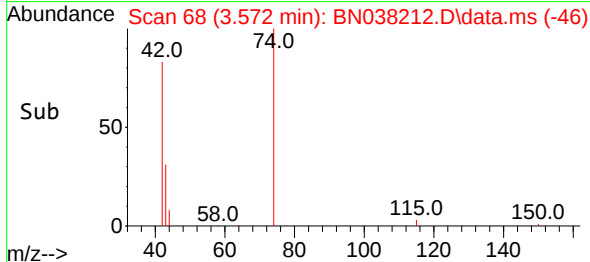
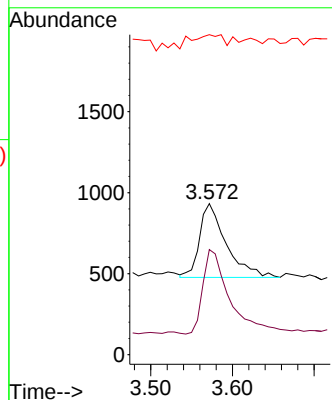
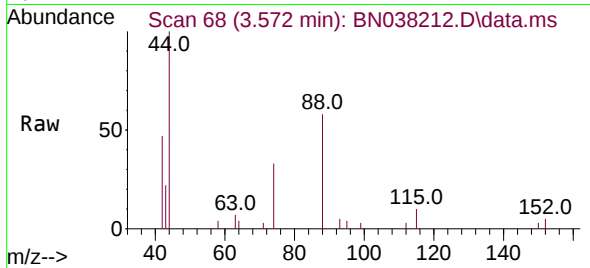




#3  
n-Nitrosodimethylamine  
Concen: 0.099 ng  
RT: 3.572 min Scan# 68  
Delta R.T. 0.007 min  
Lab File: BN038212.D  
Acq: 26 Nov 2025 20:35

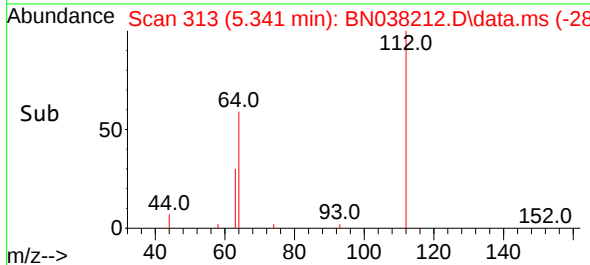
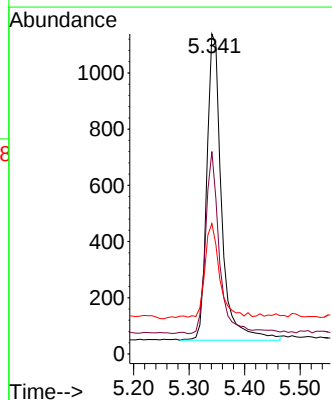
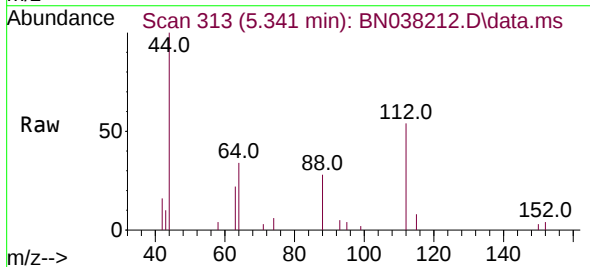
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC0.1

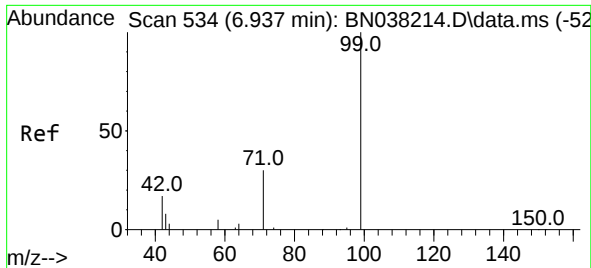
Tgt Ion: 42 Resp: 1028  
Ion Ratio Lower Upper  
42 100  
74 119.7 96.2 144.2  
44 32.6 8.0 12.0#



#4  
2-Fluorophenol  
Concen: 0.108 ng  
RT: 5.341 min Scan# 313  
Delta R.T. 0.000 min  
Lab File: BN038212.D  
Acq: 26 Nov 2025 20:35

Tgt Ion: 112 Resp: 2018  
Ion Ratio Lower Upper  
112 100  
64 54.6 45.0 67.4  
63 29.6 23.2 34.8

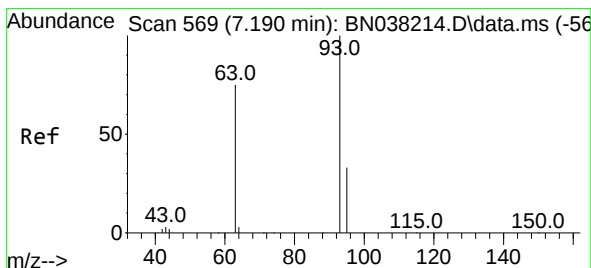
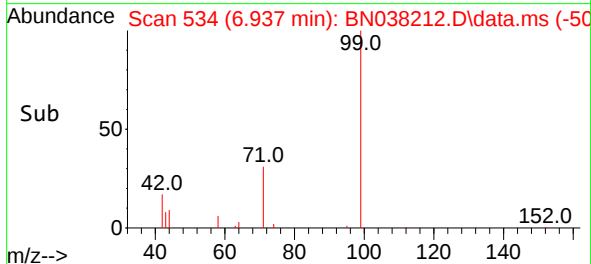
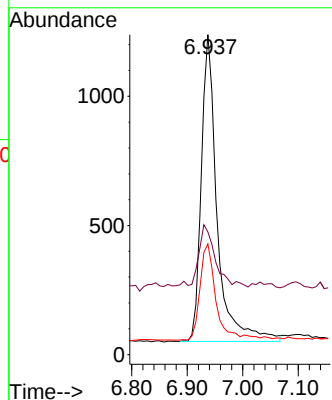
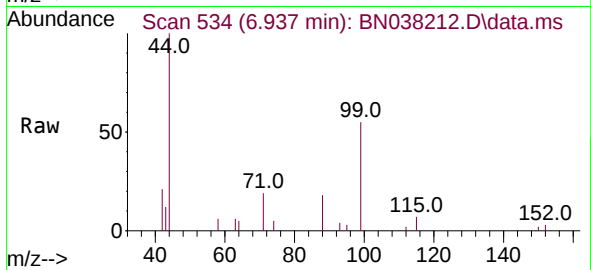




#5  
Phenol-d6  
Concen: 0.101 ng  
RT: 6.937 min Scan# 534  
Delta R.T. 0.000 min  
Lab File: BN038212.D  
Acq: 26 Nov 2025 20:35

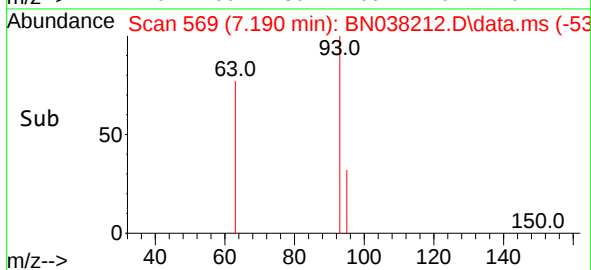
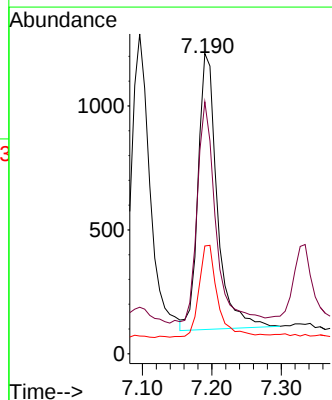
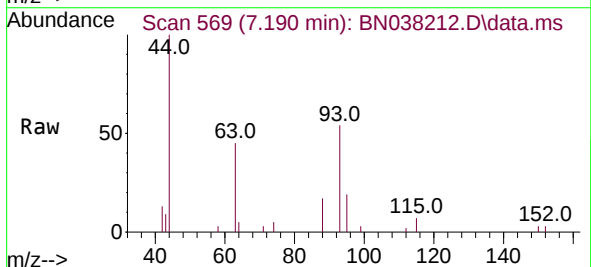
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ClientSampleId :  
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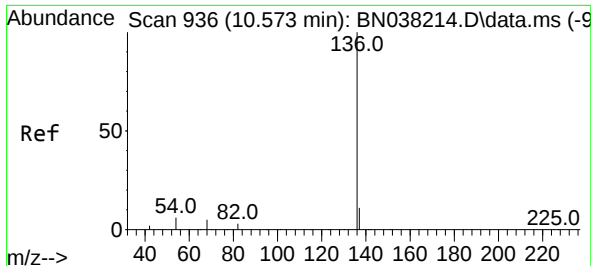
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 99    | Resp: | 2361  |
| Ion      | Ratio | Lower | Upper |
| 99       | 100   |       |       |
| 42       | 23.7  | 17.0  | 25.6  |
| 71       | 32.5  | 25.4  | 38.2  |



#6  
bis(2-Chloroethyl)ether  
Concen: 0.095 ng  
RT: 7.190 min Scan# 569  
Delta R.T. 0.000 min  
Lab File: BN038212.D  
Acq: 26 Nov 2025 20:35

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 93    | Resp: | 2134  |
| Ion      | Ratio | Lower | Upper |
| 93       | 100   |       |       |
| 63       | 78.2  | 58.1  | 87.1  |
| 95       | 32.9  | 25.1  | 37.7  |

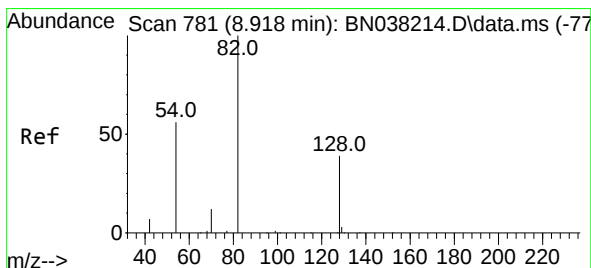
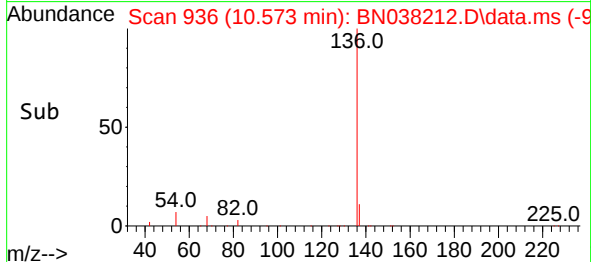
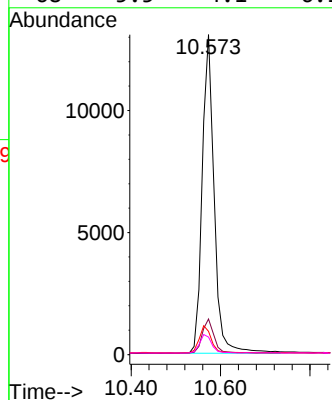
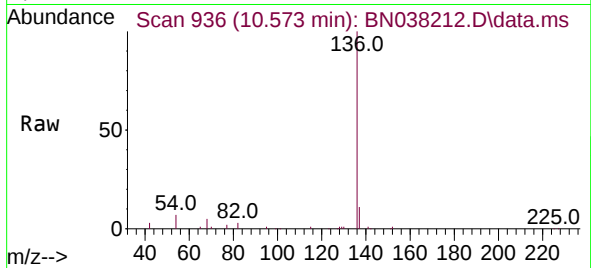




#7  
Naphthalene-d8  
Concen: 0.400 ng  
RT: 10.573 min Scan# 936  
Delta R.T. 0.000 min  
Lab File: BN038212.D  
Acq: 26 Nov 2025 20:35

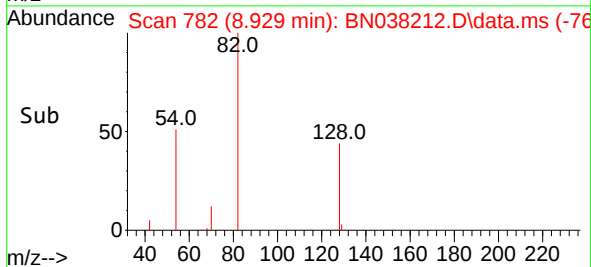
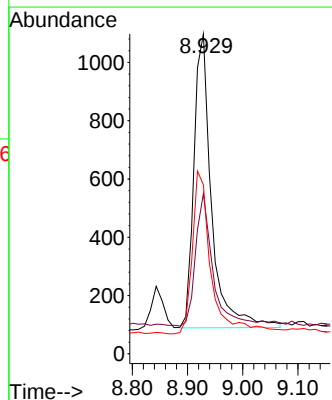
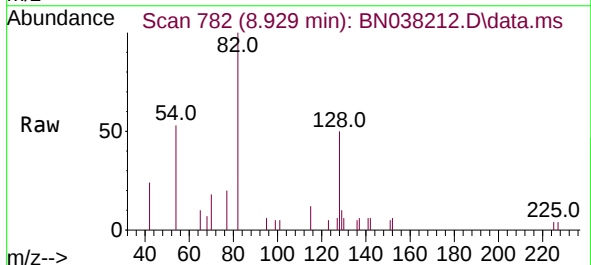
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BNA\_N  
ClientSampleId :  
SSTDIC0.1

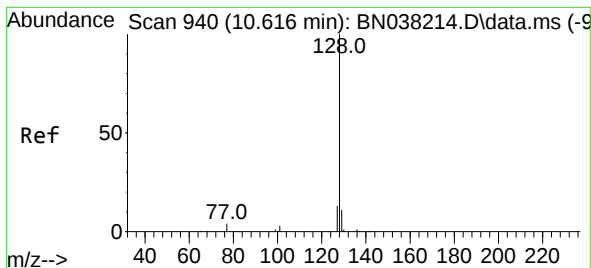
|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 136   | Resp: | 24261 |
| Ion Ratio | Lower | Upper |       |
| 136       | 100   |       |       |
| 137       | 11.1  | 8.9   | 13.3  |
| 54        | 7.3   | 5.4   | 8.0   |
| 68        | 5.5   | 4.1   | 6.1   |



#8  
Nitrobenzene-d5  
Concen: 0.116 ng  
RT: 8.929 min Scan# 782  
Delta R.T. 0.011 min  
Lab File: BN038212.D  
Acq: 26 Nov 2025 20:35

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 82    | Resp: | 2243  |
| Ion Ratio | Lower | Upper |       |
| 82        | 100   |       |       |
| 128       | 50.1  | 32.6  | 48.8# |
| 54        | 52.8  | 45.4  | 68.0  |





#9

Naphthalene

Concen: 0.104 ng

RT: 10.616 min Scan# 940

Delta R.T. 0.000 min

Lab File: BN038212.D

Acq: 26 Nov 2025 20:35

Instrument :

BNA\_N

ClientSampleId :

SSTDICC0.1

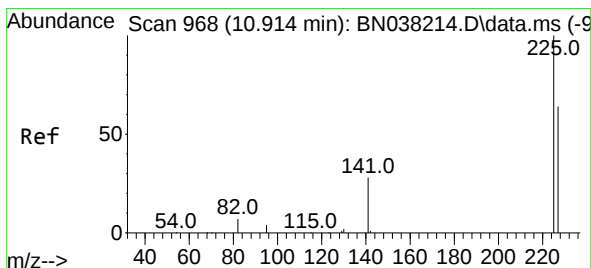
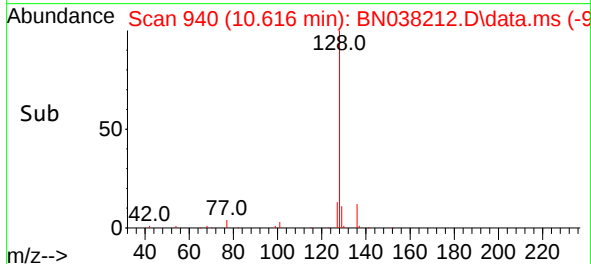
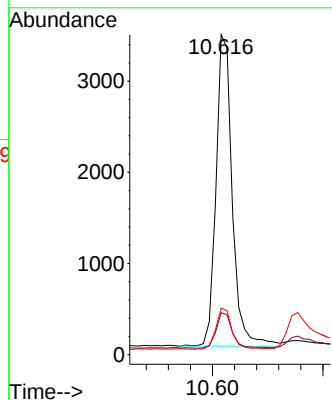
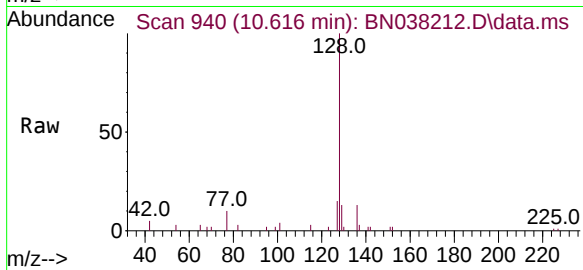
Tgt Ion:128 Resp: 6988

Ion Ratio Lower Upper

128 100

129 13.1 9.1 13.7

127 14.6 10.6 16.0



#10

Hexachlorobutadiene

Concen: 0.107 ng

RT: 10.915 min Scan# 968

Delta R.T. 0.000 min

Lab File: BN038212.D

Acq: 26 Nov 2025 20:35

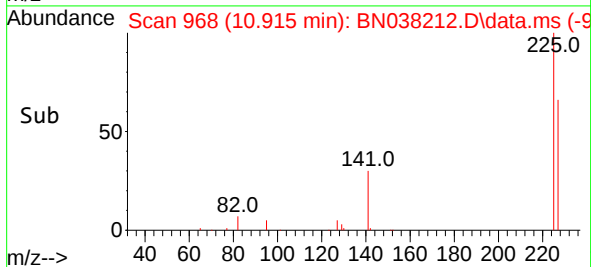
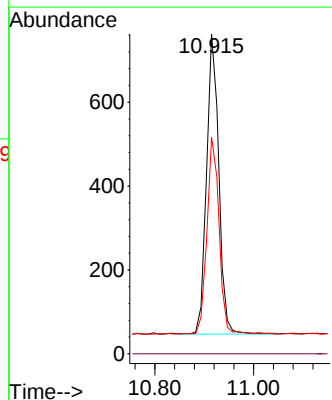
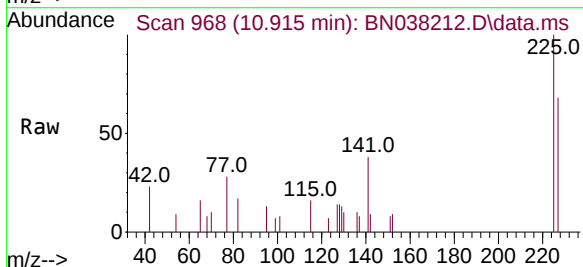
Tgt Ion:225 Resp: 1231

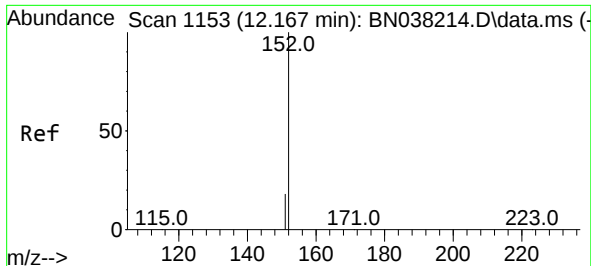
Ion Ratio Lower Upper

225 100

223 0.0 0.0 0.0

227 65.1 50.5 75.7

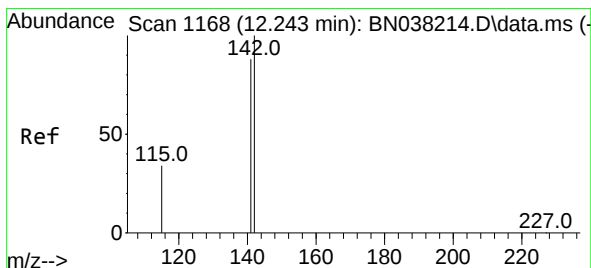
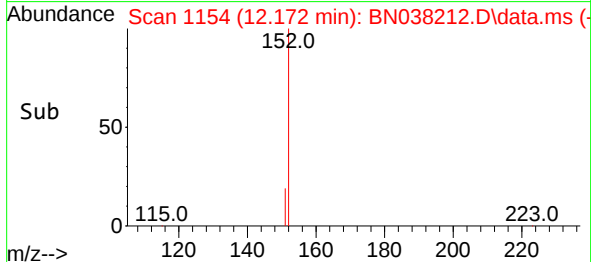
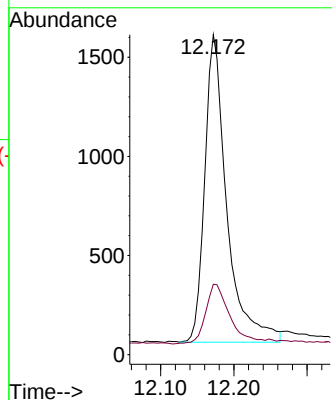
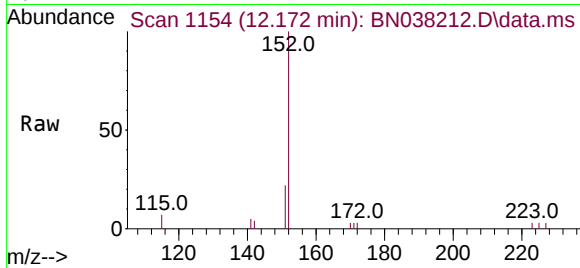




#11  
2-Methylnaphthalene-d10  
Concen: 0.094 ng  
RT: 12.172 min Scan# 1154  
Delta R.T. 0.005 min  
Lab File: BN038212.D  
Acq: 26 Nov 2025 20:35

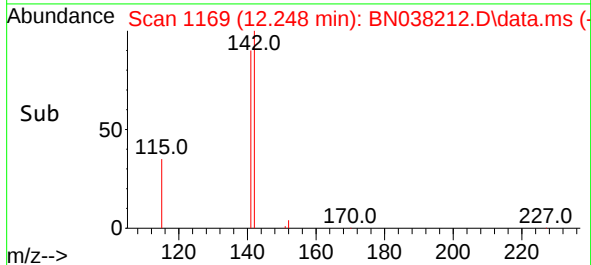
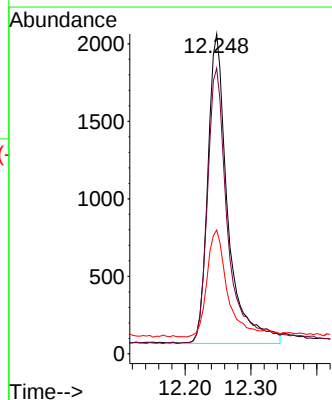
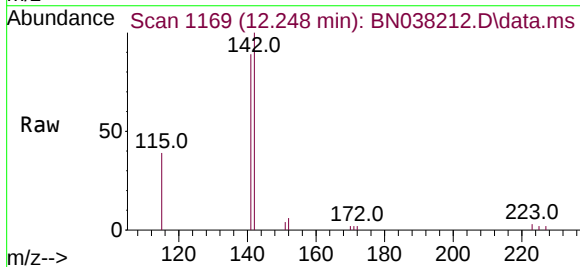
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC0.1

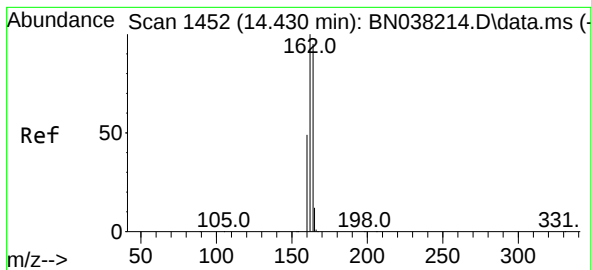
Tgt Ion:152 Resp: 3243  
Ion Ratio Lower Upper  
152 100  
151 21.4 16.7 25.1



#12  
2-Methylnaphthalene  
Concen: 0.095 ng  
RT: 12.248 min Scan# 1169  
Delta R.T. 0.005 min  
Lab File: BN038212.D  
Acq: 26 Nov 2025 20:35

Tgt Ion:142 Resp: 4222  
Ion Ratio Lower Upper  
142 100  
141 89.3 70.9 106.3  
115 38.7 27.7 41.5

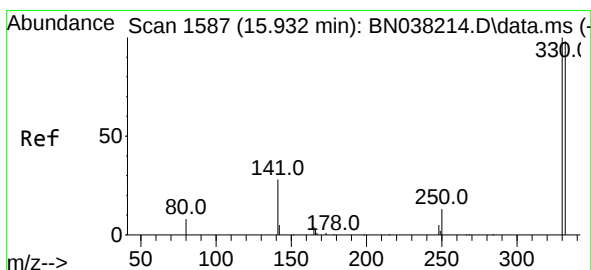
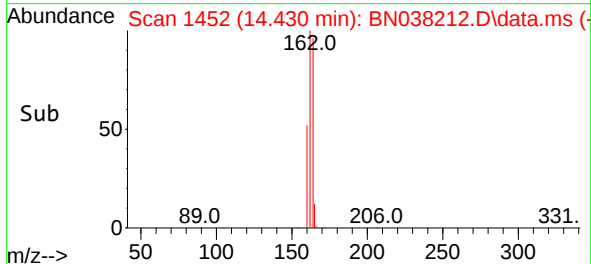
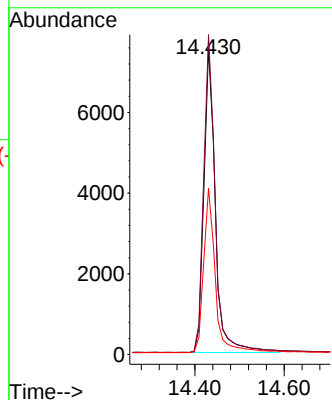
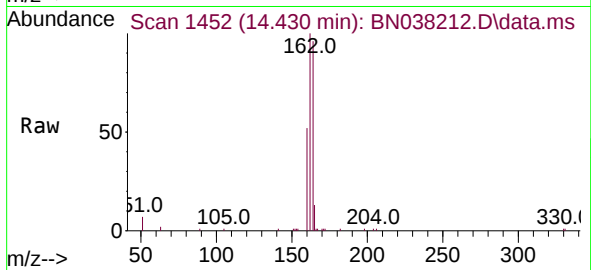




#13  
Acenaphthene-d10  
Concen: 0.400 ng  
RT: 14.430 min Scan# 14  
Delta R.T. 0.000 min  
Lab File: BN038212.D  
Acq: 26 Nov 2025 20:35

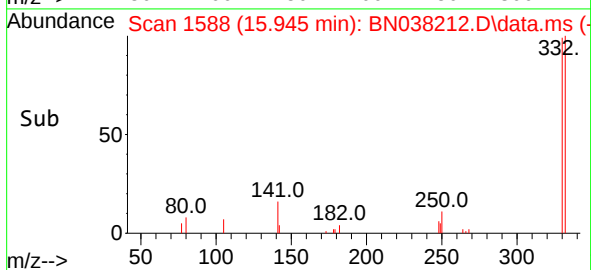
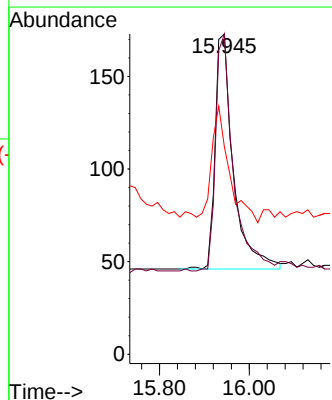
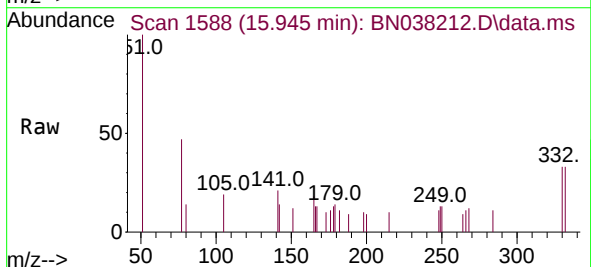
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDIC0.1

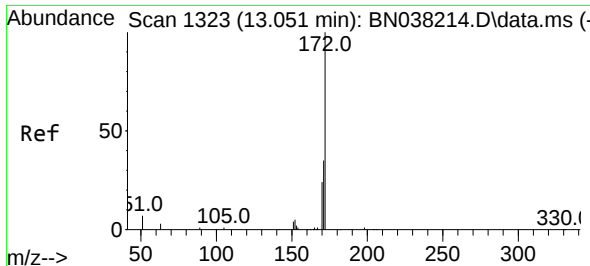
Tgt Ion:164 Resp: 13487  
Ion Ratio Lower Upper  
164 100  
162 104.5 83.8 125.8  
160 54.4 41.6 62.4



#14  
2,4,6-Tribromophenol  
Concen: 0.084 ng  
RT: 15.945 min Scan# 1588  
Delta R.T. 0.013 min  
Lab File: BN038212.D  
Acq: 26 Nov 2025 20:35

Tgt Ion:330 Resp: 357  
Ion Ratio Lower Upper  
330 100  
332 98.6 77.8 116.6  
141 48.2 33.0 49.4

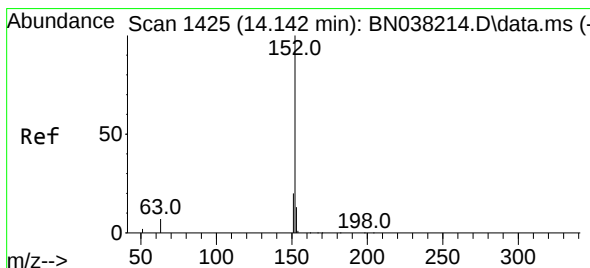
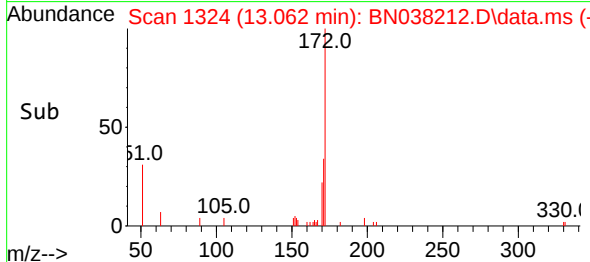
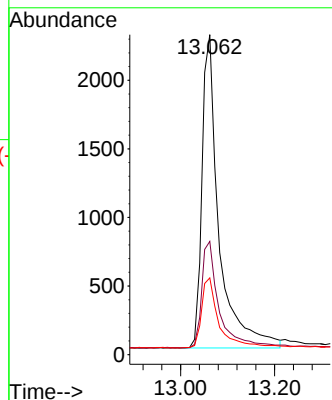
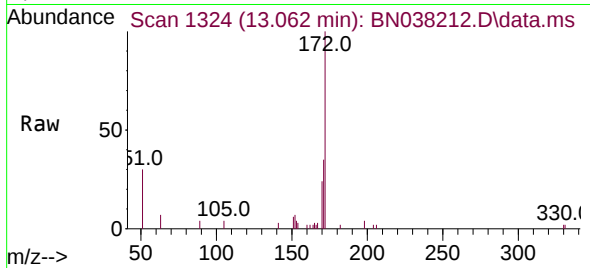




#15  
2-Fluorobiphenyl  
Concen: 0.105 ng  
RT: 13.062 min Scan# 1324  
Delta R.T. 0.011 min  
Lab File: BN038212.D  
Acq: 26 Nov 2025 20:35

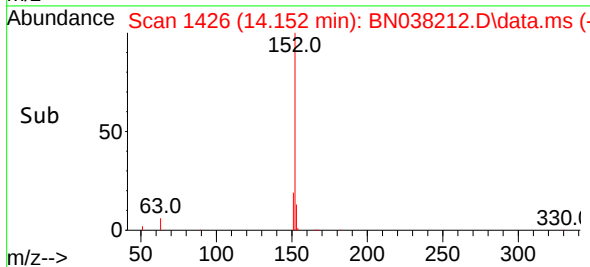
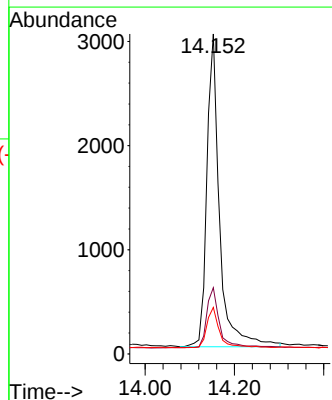
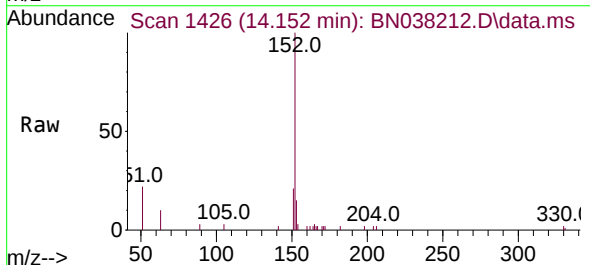
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC0.1

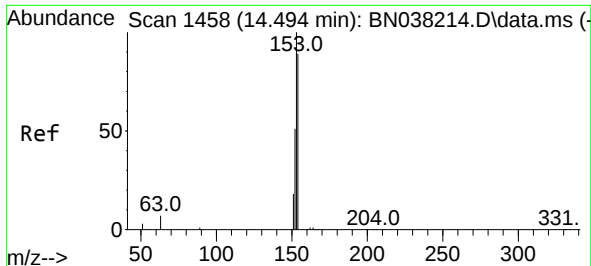
|           |       |       |      |
|-----------|-------|-------|------|
| Tgt Ion:  | 172   | Resp: | 5461 |
| Ion Ratio | Lower | Upper |      |
| 172       | 100   |       |      |
| 171       | 35.4  | 28.1  | 42.1 |
| 170       | 24.0  | 19.1  | 28.7 |



#16  
Acenaphthylene  
Concen: 0.098 ng  
RT: 14.152 min Scan# 1426  
Delta R.T. 0.011 min  
Lab File: BN038212.D  
Acq: 26 Nov 2025 20:35

|           |       |       |      |
|-----------|-------|-------|------|
| Tgt Ion:  | 152   | Resp: | 5921 |
| Ion Ratio | Lower | Upper |      |
| 152       | 100   |       |      |
| 151       | 19.7  | 15.6  | 23.4 |
| 153       | 13.1  | 10.6  | 15.8 |

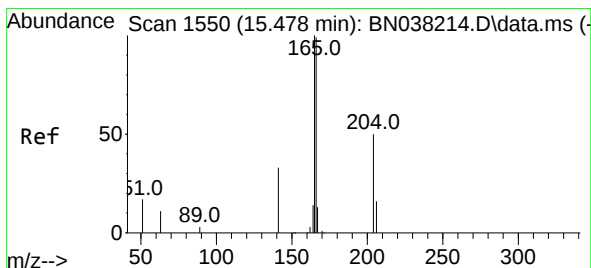
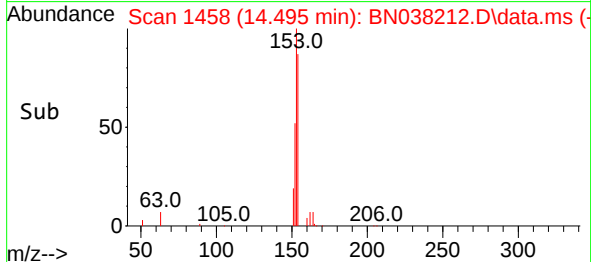
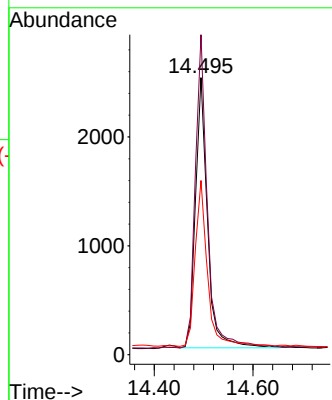
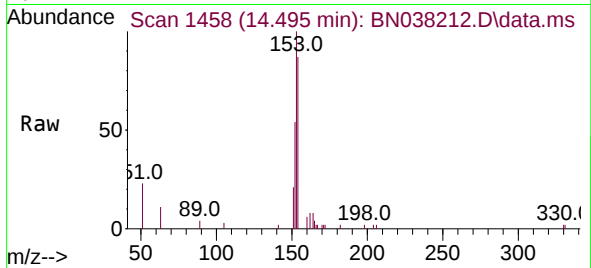




#17  
Acenaphthene  
Concen: 0.100 ng  
RT: 14.495 min Scan# 1458  
Delta R.T. 0.000 min  
Lab File: BN038212.D  
Acq: 26 Nov 2025 20:35

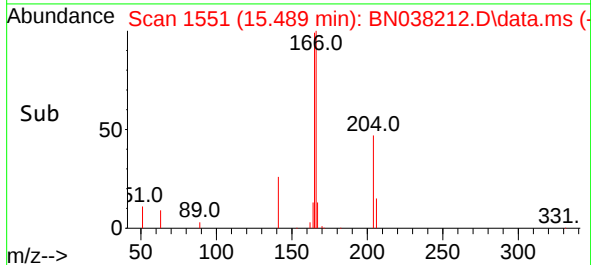
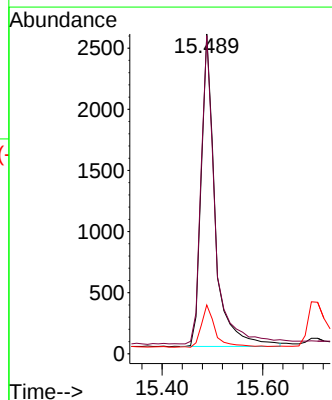
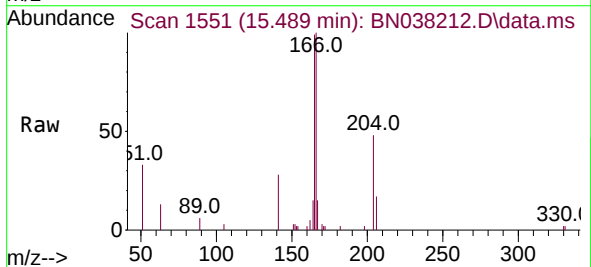
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDIC0.1

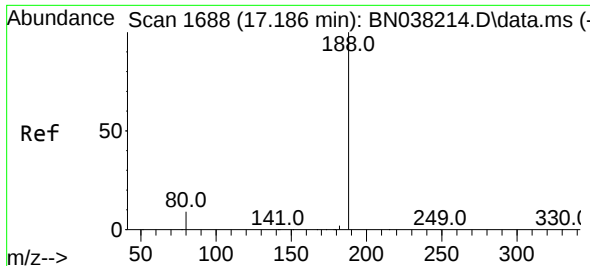
Tgt Ion:154 Resp: 4196  
Ion Ratio Lower Upper  
154 100  
153 116.8 91.1 136.7  
152 62.9 48.2 72.2



#18  
Fluorene  
Concen: 0.096 ng  
RT: 15.489 min Scan# 1551  
Delta R.T. 0.011 min  
Lab File: BN038212.D  
Acq: 26 Nov 2025 20:35

Tgt Ion:166 Resp: 5207  
Ion Ratio Lower Upper  
166 100  
165 98.4 78.7 118.1  
167 13.6 10.9 16.3

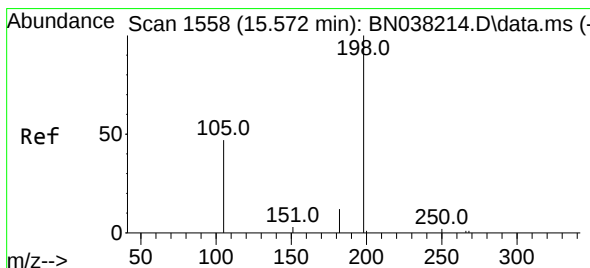
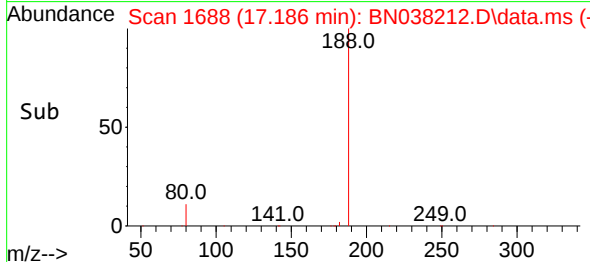
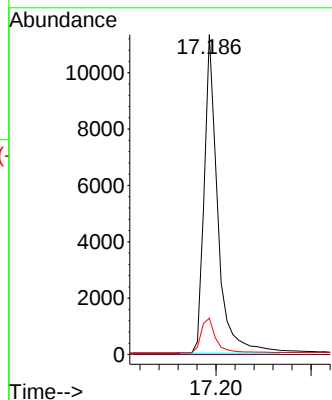
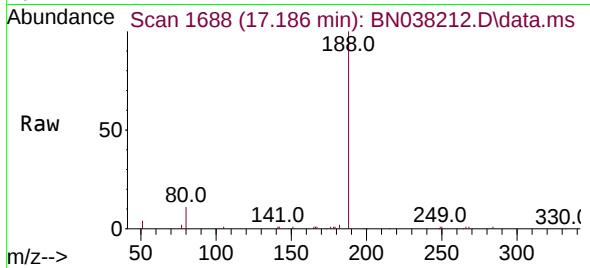




#19  
Phenanthrene-d10  
Concen: 0.400 ng  
RT: 17.186 min Scan# 1688  
Delta R.T. 0.000 min  
Lab File: BN038212.D  
Acq: 26 Nov 2025 20:35

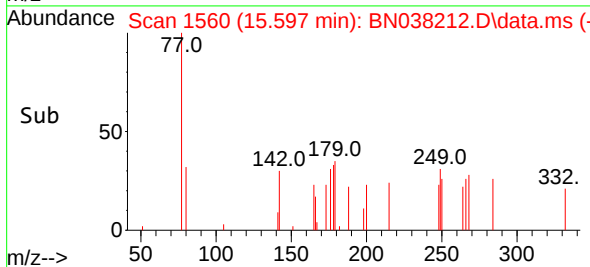
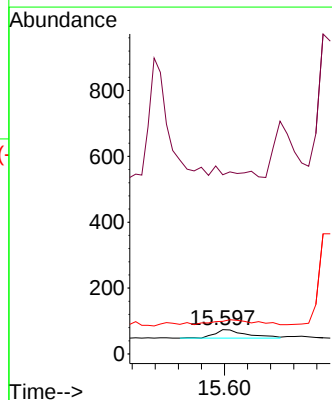
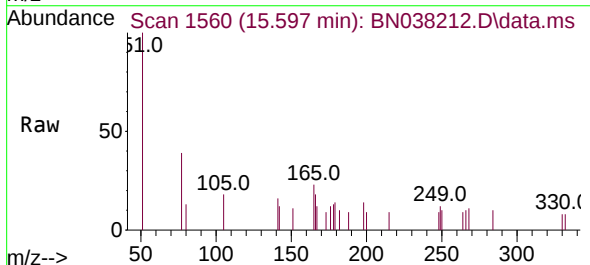
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC0.1

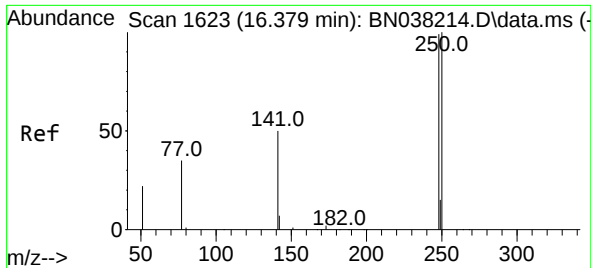
Tgt Ion:188 Resp: 22239  
Ion Ratio Lower Upper  
188 100  
94 0.0 0.0 0.0  
80 11.4 7.7 11.5



#20  
4,6-Dinitro-2-methylphenol  
Concen: 0.156 ng  
RT: 15.597 min Scan# 1560  
Delta R.T. 0.025 min  
Lab File: BN038212.D  
Acq: 26 Nov 2025 20:35

Tgt Ion:198 Resp: 101  
Ion Ratio Lower Upper  
198 100  
51 735.1 205.1 307.7#  
105 133.8 61.6 92.4#

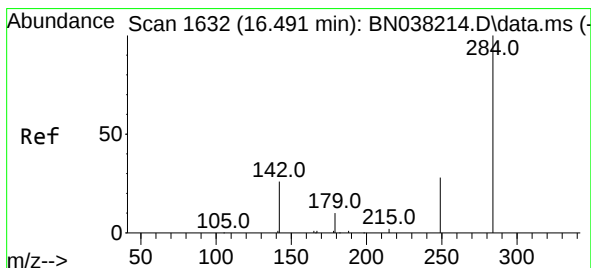
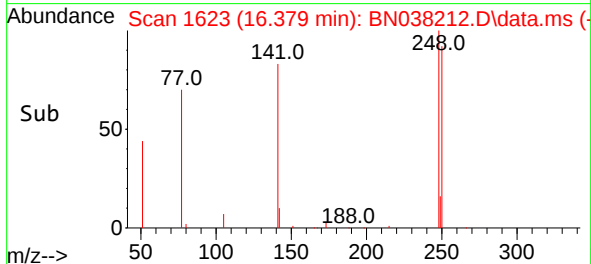
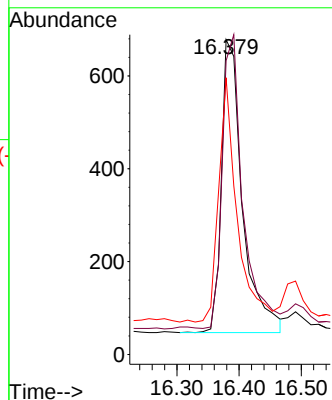
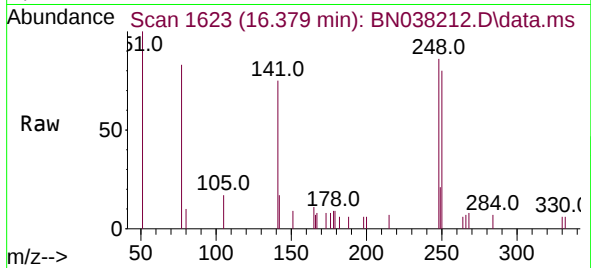




#21  
4-Bromophenyl-phenylether  
Concen: 0.097 ng  
RT: 16.379 min Scan# 1623  
Delta R.T. 0.000 min  
Lab File: BN038212.D  
Acq: 26 Nov 2025 20:35

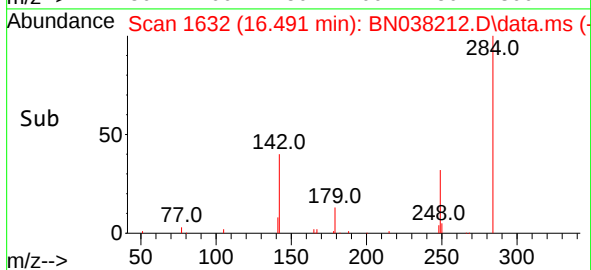
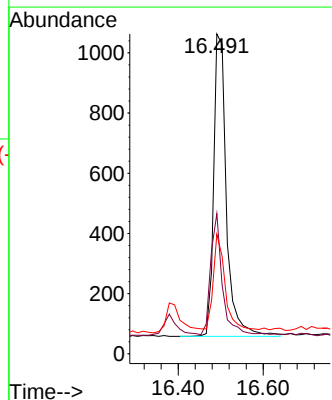
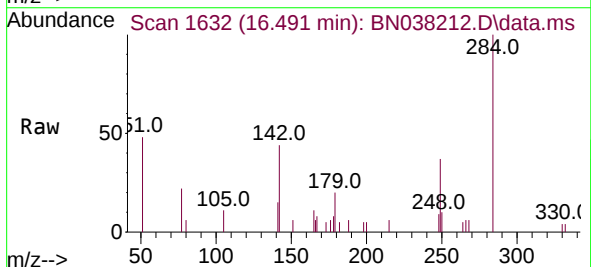
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC0.1

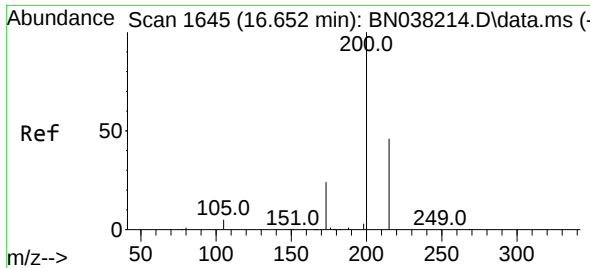
|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 248   | Resp: | 1492  |
| Ion Ratio | Lower | Upper |       |
| 248       | 100   |       |       |
| 250       | 93.4  | 80.8  | 121.2 |
| 141       | 87.9  | 41.0  | 61.6  |



#22  
Hexachlorobenzene  
Concen: 0.111 ng  
RT: 16.491 min Scan# 1632  
Delta R.T. 0.000 min  
Lab File: BN038212.D  
Acq: 26 Nov 2025 20:35

|           |       |       |      |
|-----------|-------|-------|------|
| Tgt Ion:  | 284   | Resp: | 2097 |
| Ion Ratio | Lower | Upper |      |
| 284       | 100   |       |      |
| 142       | 36.2  | 30.5  | 45.7 |
| 249       | 29.5  | 23.8  | 35.8 |

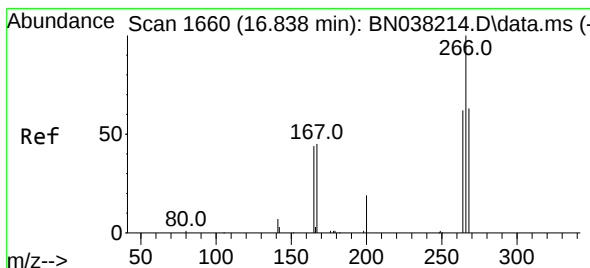
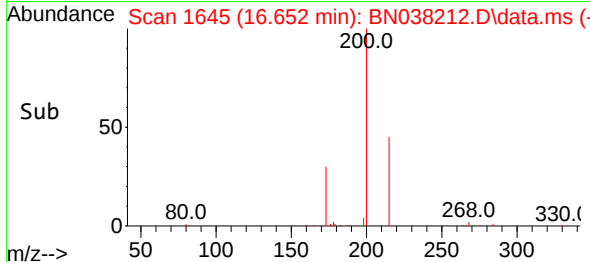
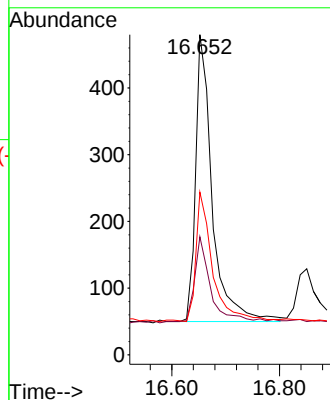
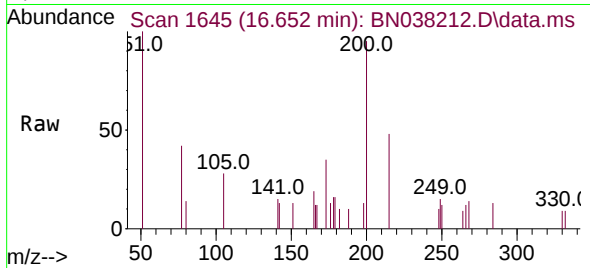




#23  
 Atrazine  
 Concen: 0.093 ng  
 RT: 16.652 min Scan# 1645  
 Delta R.T. 0.000 min  
 Lab File: BN038212.D  
 Acq: 26 Nov 2025 20:35

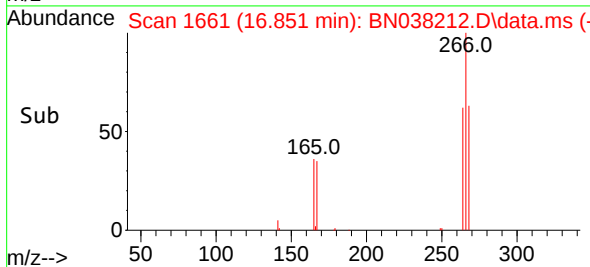
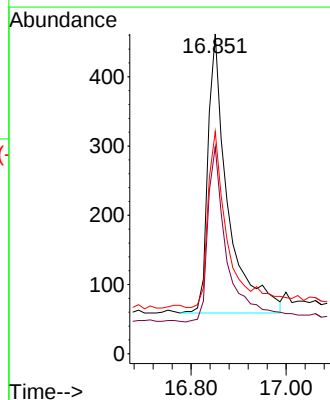
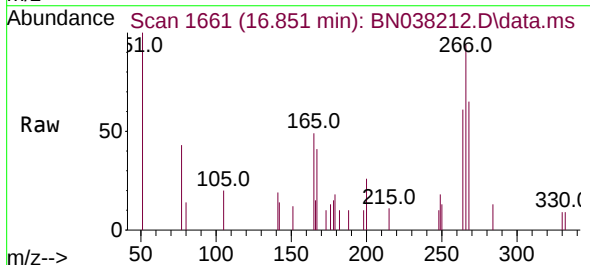
Instrument :  
 BNA\_N  
 ClientSampleId :  
 SSTDICC0.1

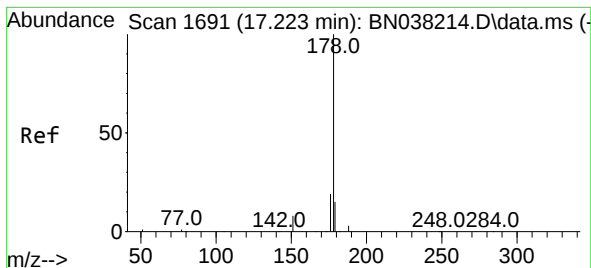
Tgt Ion:200 Resp: 918  
 Ion Ratio Lower Upper  
 200 100  
 173 36.9 21.0 31.6#  
 215 50.8 37.8 56.8



#24  
 Pentachlorophenol  
 Concen: 0.225 ng  
 RT: 16.851 min Scan# 1661  
 Delta R.T. 0.013 min  
 Lab File: BN038212.D  
 Acq: 26 Nov 2025 20:35

Tgt Ion:266 Resp: 1169  
 Ion Ratio Lower Upper  
 266 100  
 264 61.8 48.9 73.3  
 268 61.8 50.2 75.2

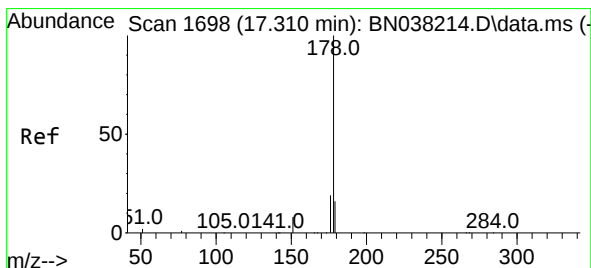
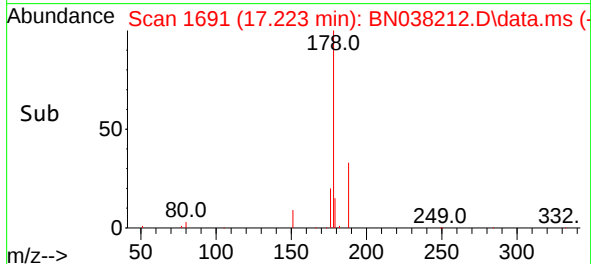
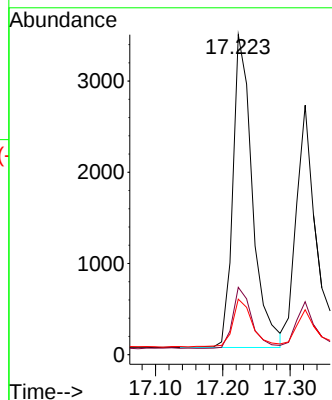
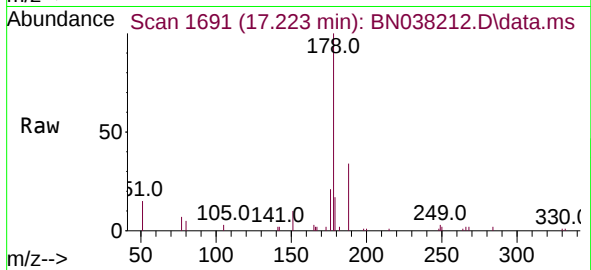




#25  
Phenanthrene  
Concen: 0.099 ng  
RT: 17.223 min Scan# 1691  
Delta R.T. 0.000 min  
Lab File: BN038212.D  
Acq: 26 Nov 2025 20:35

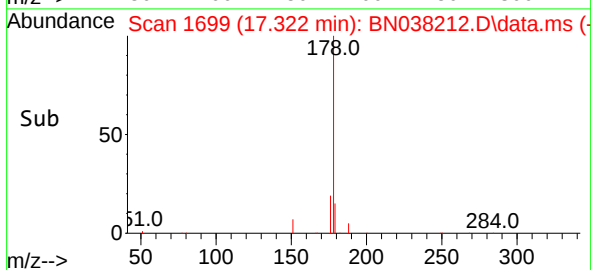
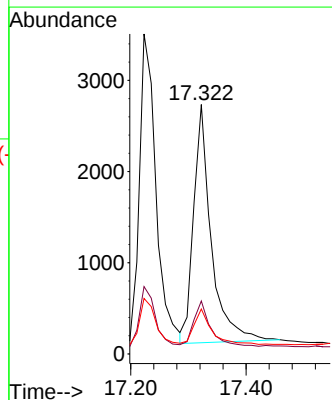
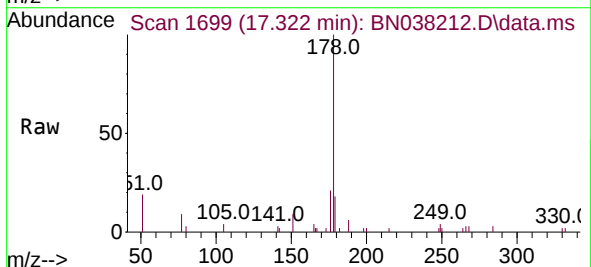
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC0.1

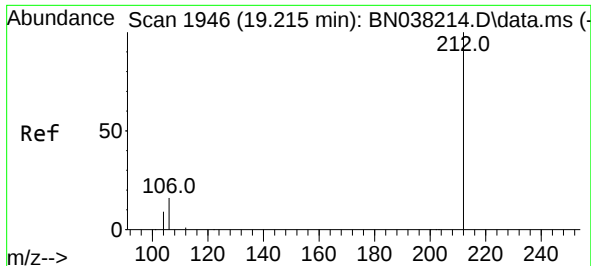
Tgt Ion:178 Resp: 6934  
Ion Ratio Lower Upper  
178 100  
176 19.1 15.3 22.9  
179 15.6 12.0 18.0



#26  
Anthracene  
Concen: 0.093 ng  
RT: 17.322 min Scan# 1699  
Delta R.T. 0.013 min  
Lab File: BN038212.D  
Acq: 26 Nov 2025 20:35

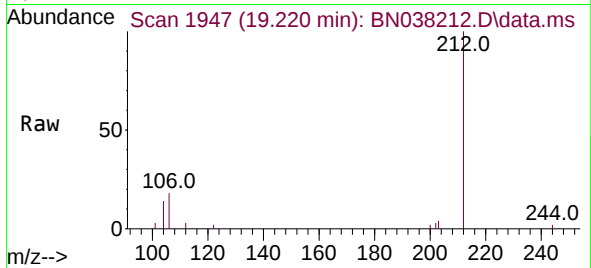
Tgt Ion:178 Resp: 5536  
Ion Ratio Lower Upper  
178 100  
176 18.7 14.7 22.1  
179 15.5 12.3 18.5



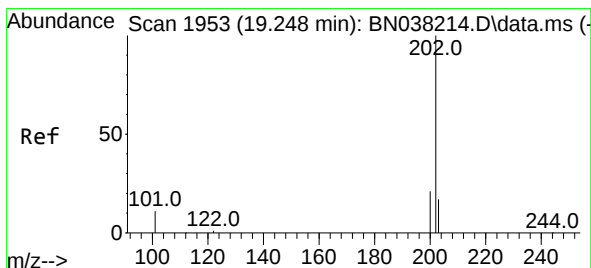
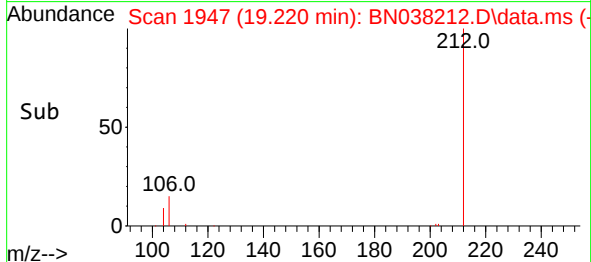
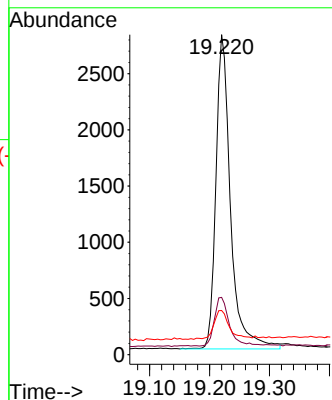


#27  
Fluoranthene-d10  
Concen: 0.098 ng  
RT: 19.220 min Scan# 1947  
Delta R.T. 0.005 min  
Lab File: BN038212.D  
Acq: 26 Nov 2025 20:35

Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC0.1

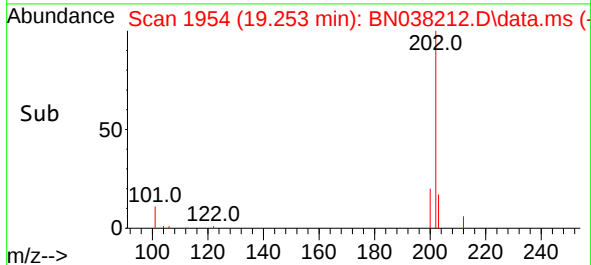
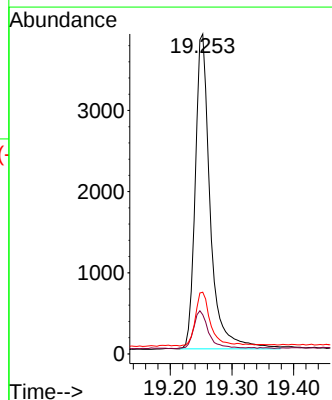
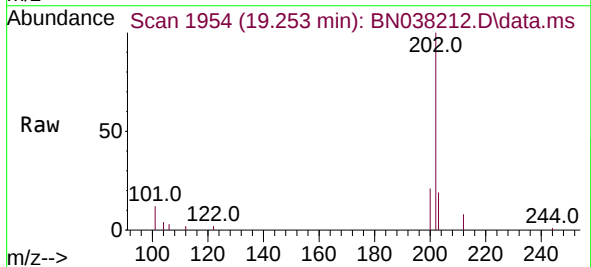


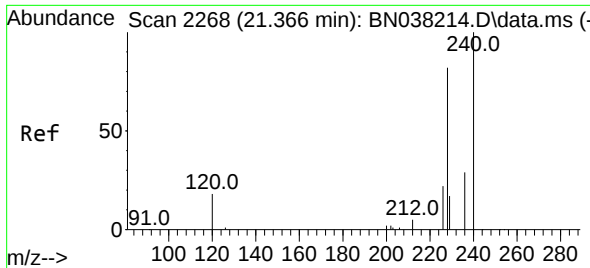
Tgt Ion:212 Resp: 4740  
Ion Ratio Lower Upper  
212 100  
106 15.8 12.7 19.1  
104 9.8 7.3 10.9



#28  
Fluoranthene  
Concen: 0.097 ng  
RT: 19.253 min Scan# 1954  
Delta R.T. 0.005 min  
Lab File: BN038212.D  
Acq: 26 Nov 2025 20:35

Tgt Ion:202 Resp: 6527  
Ion Ratio Lower Upper  
202 100  
101 11.9 9.8 14.6  
203 16.8 13.6 20.4

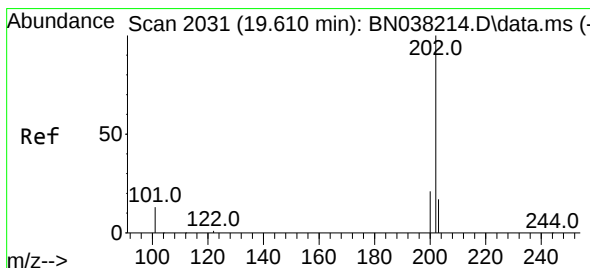
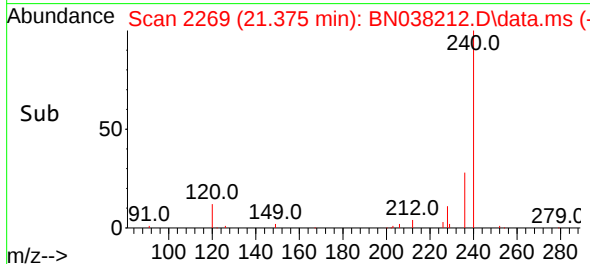
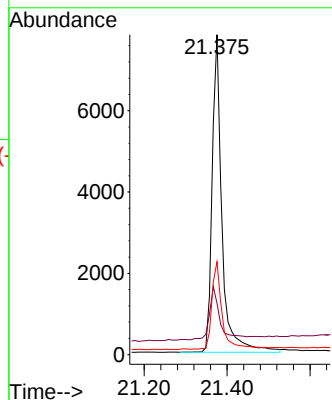
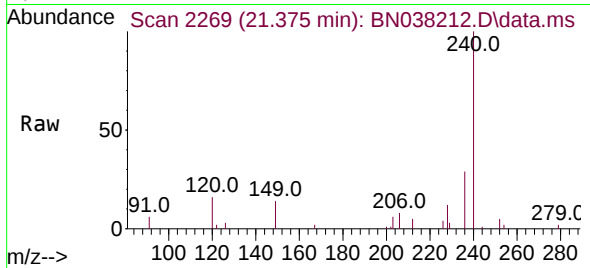




#29  
Chrysene-d12  
Concen: 0.400 ng  
RT: 21.375 min Scan# 21  
Delta R.T. 0.009 min  
Lab File: BN038212.D  
Acq: 26 Nov 2025 20:35

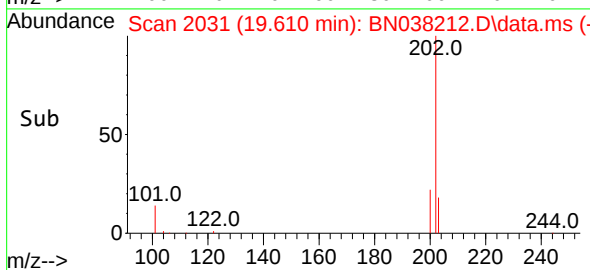
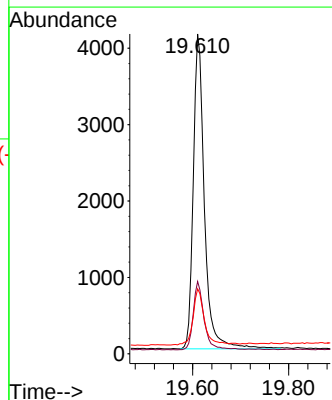
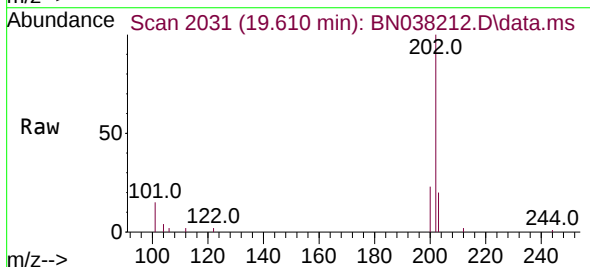
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDIC0.1

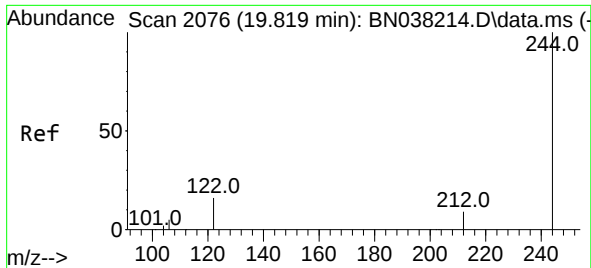
Tgt Ion:240 Resp: 12844  
Ion Ratio Lower Upper  
240 100  
120 16.0 18.1 27.1#  
236 29.0 24.2 36.4



#30  
Pyrene  
Concen: 0.103 ng  
RT: 19.610 min Scan# 2031  
Delta R.T. 0.000 min  
Lab File: BN038212.D  
Acq: 26 Nov 2025 20:35

Tgt Ion:202 Resp: 6634  
Ion Ratio Lower Upper  
202 100  
200 20.9 16.8 25.2  
203 18.0 14.4 21.6

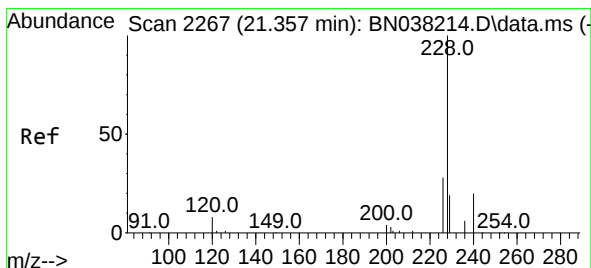
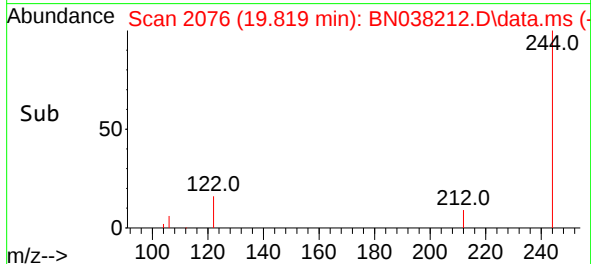
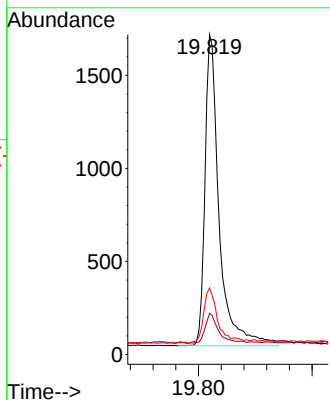
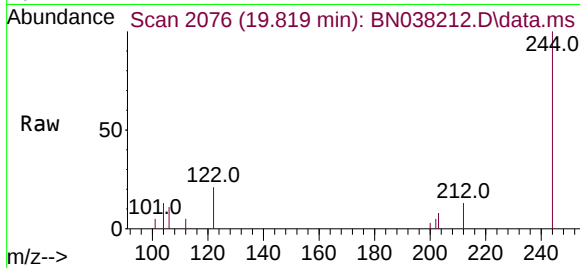




#31  
 Terphenyl-d14  
 Concen: 0.098 ng  
 RT: 19.819 min Scan# 2076  
 Delta R.T. 0.000 min  
 Lab File: BN038212.D  
 Acq: 26 Nov 2025 20:35

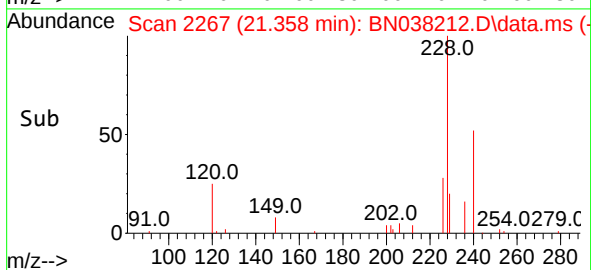
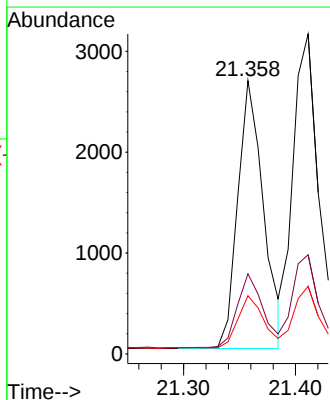
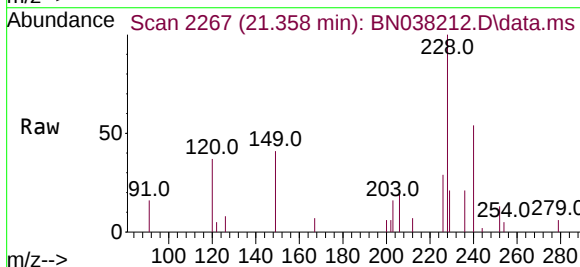
Instrument :  
 BNA\_N  
 ClientSampleId :  
 SSTDICC0.1

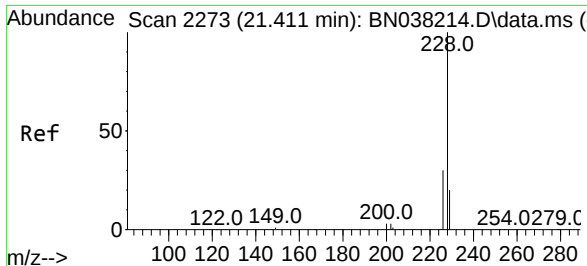
Tgt Ion:244 Resp: 2901  
 Ion Ratio Lower Upper  
 244 100  
 212 12.9 7.7 11.5#  
 122 20.8 13.6 20.4#



#32  
 Benzo(a)anthracene  
 Concen: 0.097 ng  
 RT: 21.358 min Scan# 2267  
 Delta R.T. 0.000 min  
 Lab File: BN038212.D  
 Acq: 26 Nov 2025 20:35

Tgt Ion:228 Resp: 4241  
 Ion Ratio Lower Upper  
 228 100  
 226 29.3 22.6 33.8  
 229 21.3 15.8 23.8

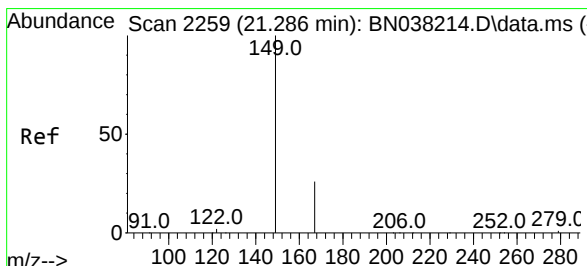
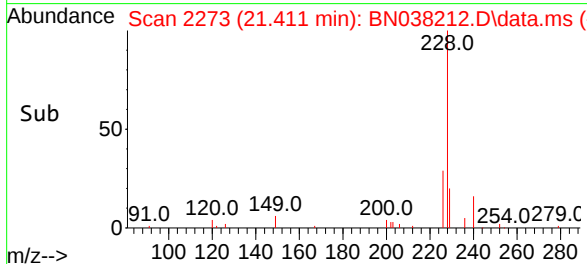
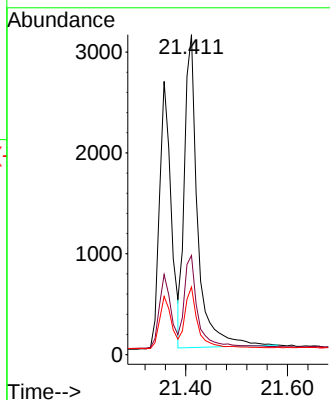
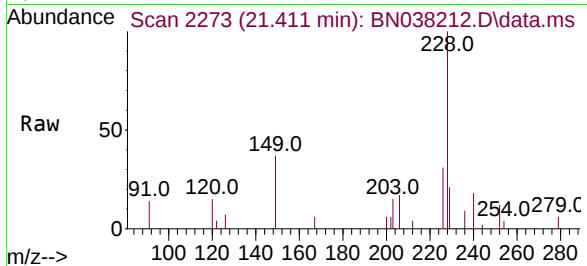




#33  
Chrysene  
Concen: 0.109 ng  
RT: 21.411 min Scan# 21  
Delta R.T. 0.000 min  
Lab File: BN038212.D  
Acq: 26 Nov 2025 20:35

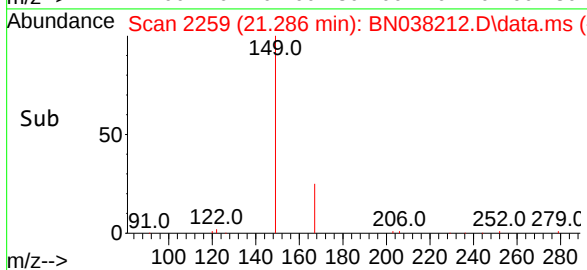
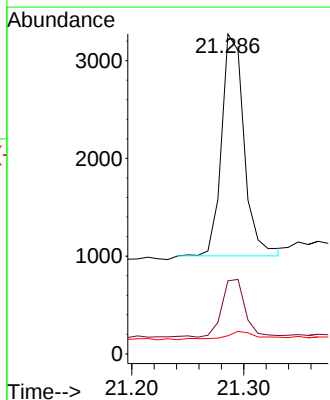
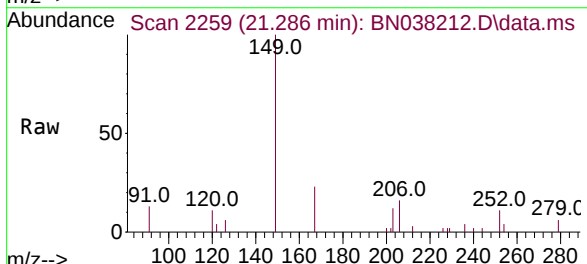
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC0.1

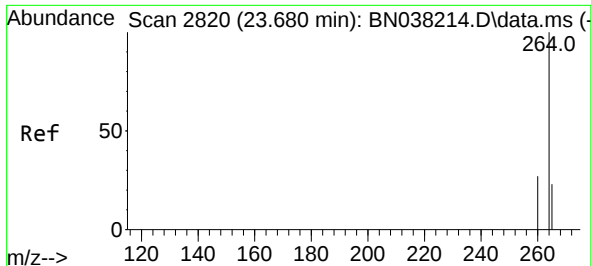
|             |       |           |
|-------------|-------|-----------|
| Tgt Ion:228 | Resp: | 5593      |
| Ion Ratio   | Lower | Upper     |
| 228         | 100   |           |
| 226         | 31.0  | 23.8 35.8 |
| 229         | 21.1  | 16.1 24.1 |



#34  
Bis(2-ethylhexyl)phthalate  
Concen: 0.133 ng  
RT: 21.286 min Scan# 2259  
Delta R.T. 0.000 min  
Lab File: BN038212.D  
Acq: 26 Nov 2025 20:35

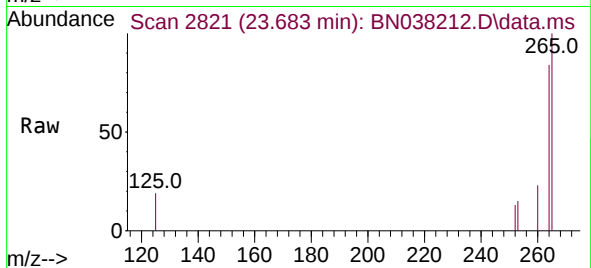
|             |       |           |
|-------------|-------|-----------|
| Tgt Ion:149 | Resp: | 3169      |
| Ion Ratio   | Lower | Upper     |
| 149         | 100   |           |
| 167         | 25.9  | 20.7 31.1 |
| 279         | 6.0   | 2.5 3.7#  |



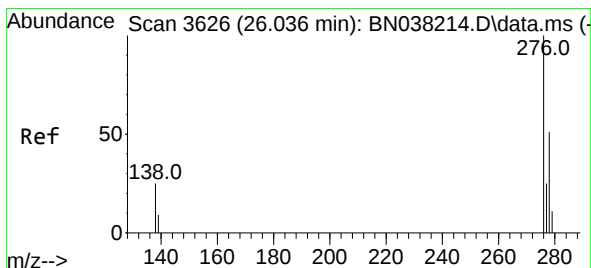
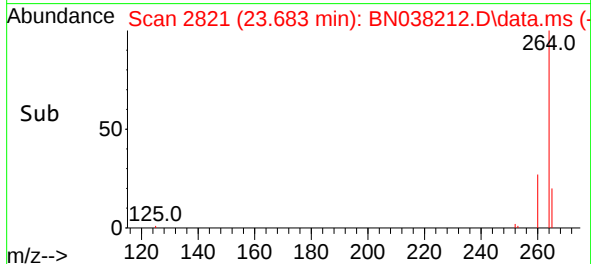
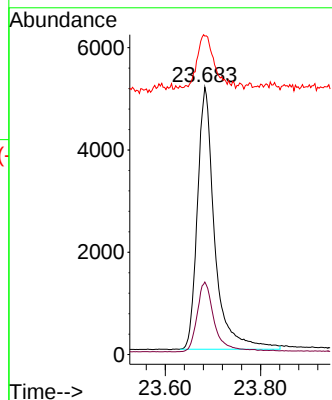


#35  
Perylene-d12  
Concen: 0.400 ng  
RT: 23.683 min Scan# 2821  
Delta R.T. 0.003 min  
Lab File: BN038212.D  
Acq: 26 Nov 2025 20:35

Instrument :  
BNA\_N  
ClientSampleId :  
SSTDIC0.1

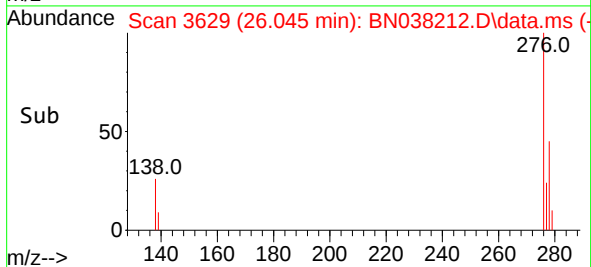
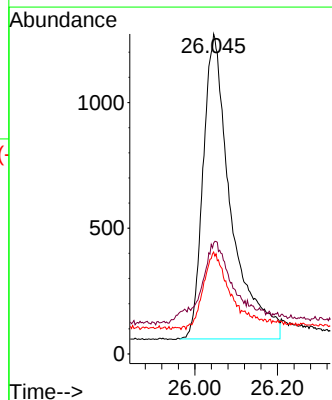
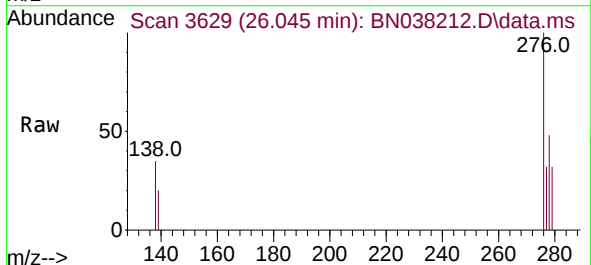


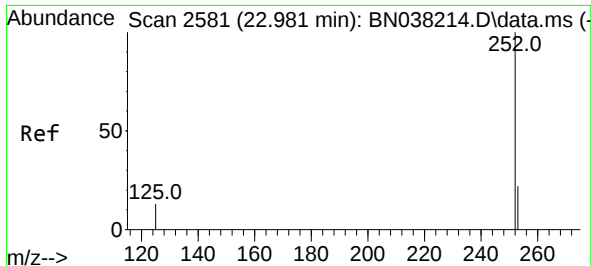
Tgt Ion:264 Resp: 12898  
Ion Ratio Lower Upper  
264 100  
260 27.1 21.7 32.5  
265 119.1 98.0 147.0



#36  
Indeno(1,2,3-cd)pyrene  
Concen: 0.094 ng  
RT: 26.045 min Scan# 3629  
Delta R.T. 0.009 min  
Lab File: BN038212.D  
Acq: 26 Nov 2025 20:35

Tgt Ion:276 Resp: 5633  
Ion Ratio Lower Upper  
276 100  
138 20.5 21.4 32.2#  
277 22.5 19.1 28.7

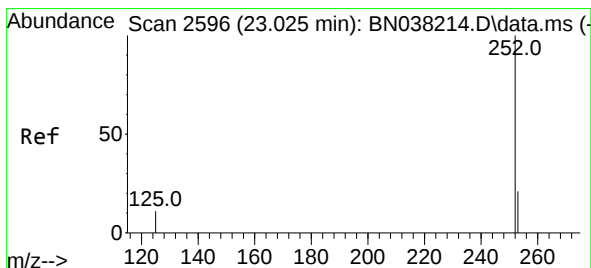
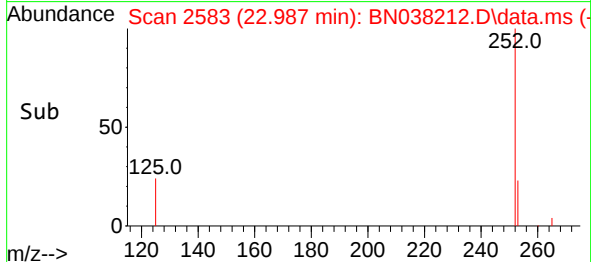
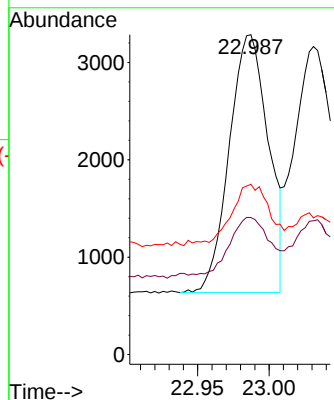
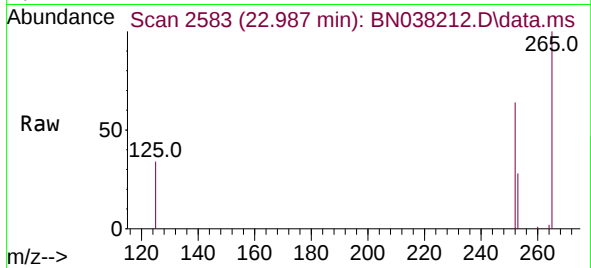




#37  
Benzo(b)fluoranthene  
Concen: 0.095 ng  
RT: 22.987 min Scan# 21  
Delta R.T. 0.006 min  
Lab File: BN038212.D  
Acq: 26 Nov 2025 20:35

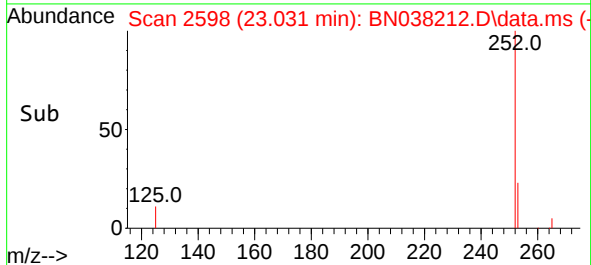
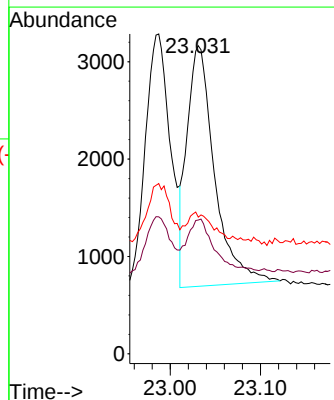
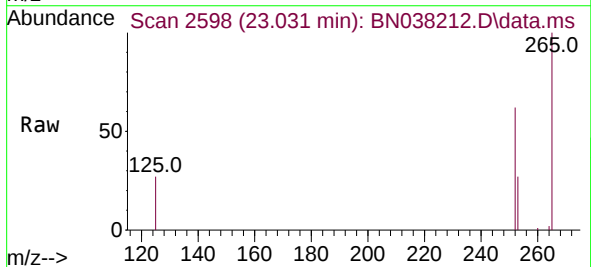
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDIC0.1

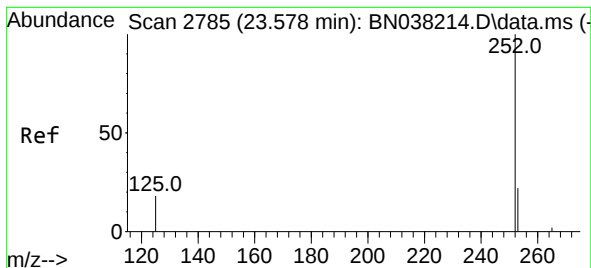
Tgt Ion:252 Resp: 5040  
Ion Ratio Lower Upper  
252 100  
253 42.8 22.2 33.4#  
125 53.2 18.0 27.0#



#38  
Benzo(k)fluoranthene  
Concen: 0.095 ng  
RT: 23.031 min Scan# 2598  
Delta R.T. 0.006 min  
Lab File: BN038212.D  
Acq: 26 Nov 2025 20:35

Tgt Ion:252 Resp: 5245  
Ion Ratio Lower Upper  
252 100  
253 43.4 22.4 33.6#  
125 44.4 17.5 26.3#





#39

Benzo(a)pyrene

Concen: 0.103 ng

RT: 23.587 min Scan# 21

Delta R.T. 0.009 min

Lab File: BN038212.D

Acq: 26 Nov 2025 20:35

Instrument :

BNA\_N

ClientSampleId :

SSTDIC0.1

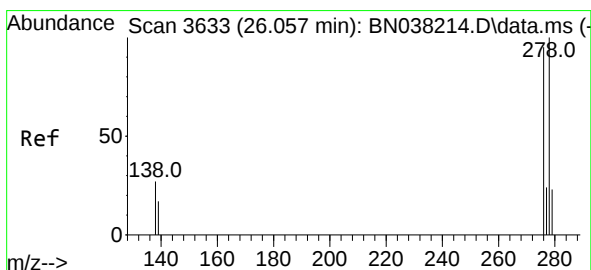
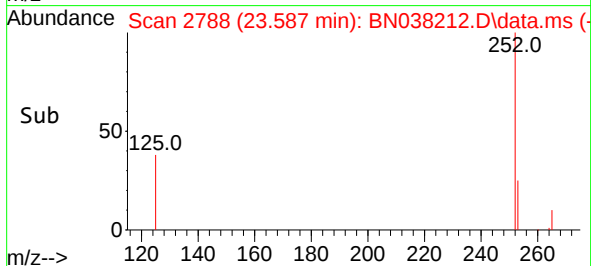
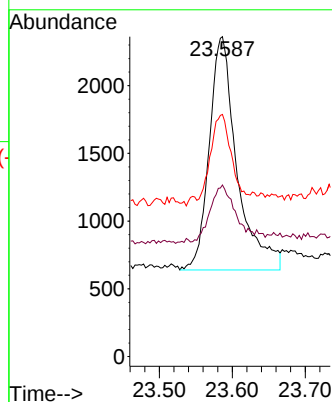
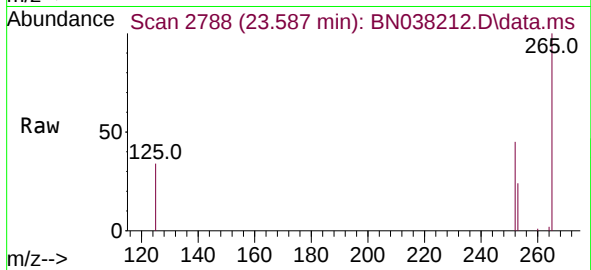
Tgt Ion:252 Resp: 4558

Ion Ratio Lower Upper

252 100

253 53.6 25.3 37.9#

125 75.7 25.2 37.8#



#40

Dibenzo(a,h)anthracene

Concen: 0.090 ng

RT: 26.069 min Scan# 3637

Delta R.T. 0.012 min

Lab File: BN038212.D

Acq: 26 Nov 2025 20:35

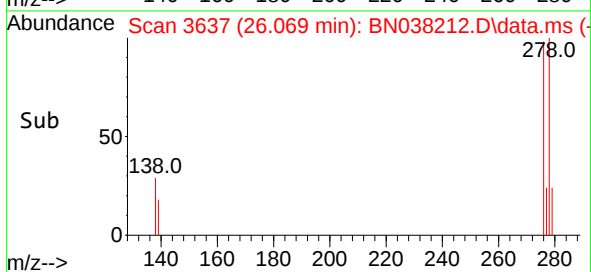
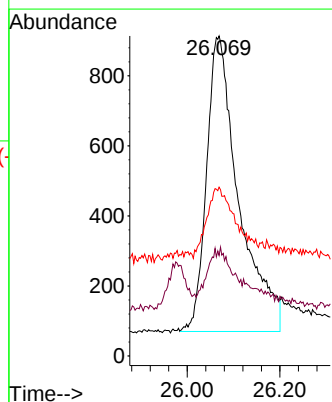
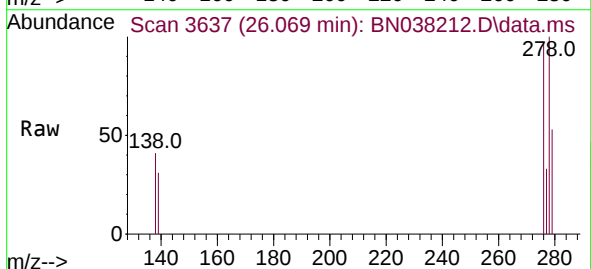
Tgt Ion:278 Resp: 4077

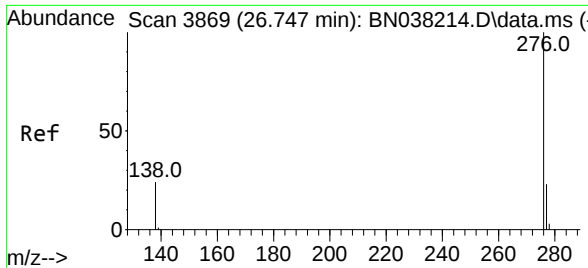
Ion Ratio Lower Upper

278 100

139 31.4 17.6 26.4#

279 52.7 24.2 36.4#





#41

Benzo(g,h,i)perylene

Concen: 0.042 ng

RT: 26.753 min Scan# 38

Delta R.T. 0.006 min

Lab File: BN038212.D

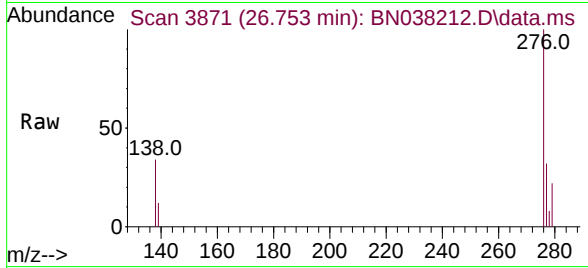
Acq: 26 Nov 2025 20:35

Instrument :

BNA\_N

ClientSampleId :

SSTDICC0.1



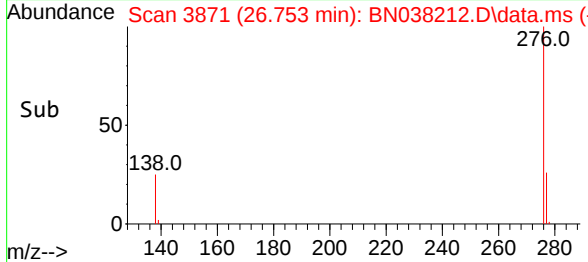
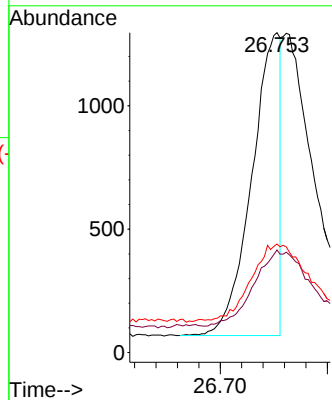
Tgt Ion:276 Resp: 2263

Ion Ratio Lower Upper

276 100

277 32.1 20.2 30.2#

138 33.9 20.8 31.2#



Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN120125\  
 Data File : BN038232.D  
 Acq On : 01 Dec 2025 19:04  
 Operator : RC/JU  
 Sample : PB170712BS  
 Misc :  
 ALS Vial : 4 Sample Multiplier: 1

Instrument :  
 BNA\_N  
 ClientSampleId :  
 PB170712BS

Quant Time: Dec 02 01:08:47 2025  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\8270-SIM-BN112725.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Fri Nov 28 21:04:10 2025  
 Response via : Initial Calibration

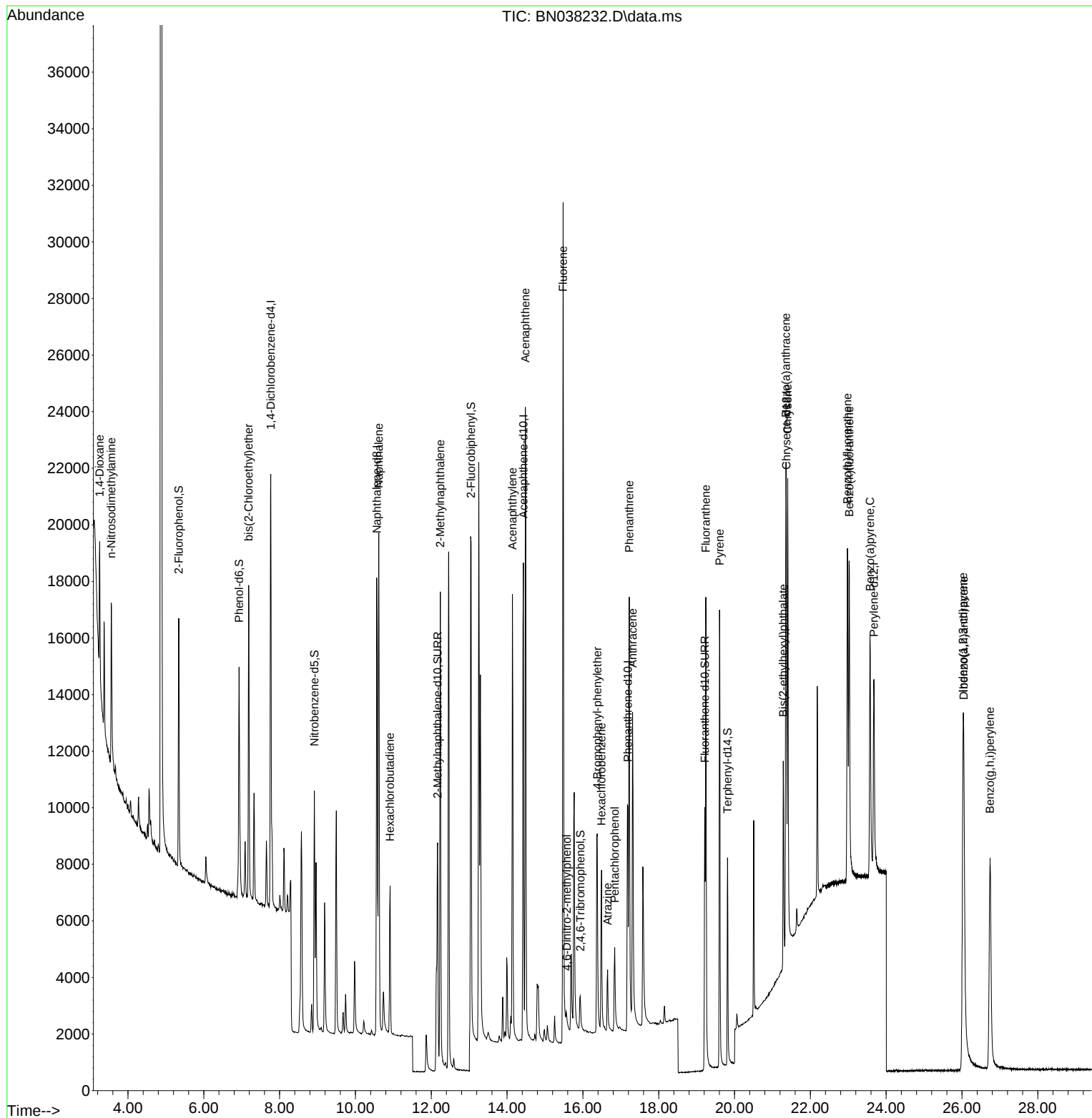
| Compound                      | R.T.   | QIon | Response | Conc  | Units | Dev(Min) |
|-------------------------------|--------|------|----------|-------|-------|----------|
| Internal Standards            |        |      |          |       |       |          |
| 1) 1,4-Dichlorobenzene-d4     | 7.768  | 152  | 7901     | 0.400 | ng    | 0.00     |
| 7) Naphthalene-d8             | 10.562 | 136  | 22379    | 0.400 | ng    | #-0.01   |
| 13) Acenaphthene-d10          | 14.430 | 164  | 10358    | 0.400 | ng    | 0.00     |
| 19) Phenanthrene-d10          | 17.186 | 188  | 14739    | 0.400 | ng    | 0.00     |
| 29) Chrysene-d12              | 21.366 | 240  | 10142    | 0.400 | ng    | 0.00     |
| 35) Perylene-d12              | 23.674 | 264  | 10375    | 0.400 | ng    | 0.00     |
| System Monitoring Compounds   |        |      |          |       |       |          |
| 4) 2-Fluorophenol             | 5.341  | 112  | 7243     | 0.392 | ng    | 0.00     |
| 5) Phenol-d6                  | 6.930  | 99   | 8256     | 0.358 | ng    | 0.00     |
| 8) Nitrobenzene-d5            | 8.918  | 82   | 7089     | 0.396 | ng    | 0.00     |
| 11) 2-Methylnaphthalene-d10   | 12.167 | 152  | 18360    | 0.578 | ng    | 0.00     |
| 14) 2,4,6-Tribromophenol      | 15.932 | 330  | 1053     | 0.323 | ng    | 0.00     |
| 15) 2-Fluorobiphenyl          | 13.051 | 172  | 18137    | 0.453 | ng    | 0.00     |
| 27) Fluoranthene-d10          | 19.215 | 212  | 11485    | 0.359 | ng    | 0.00     |
| 31) Terphenyl-d14             | 19.815 | 244  | 8499     | 0.363 | ng    | 0.00     |
| Target Compounds              |        |      |          |       |       |          |
| 2) 1,4-Dioxane                | 3.254  | 88   | 2735     | 0.329 | ng    | # 70     |
| 3) n-Nitrosodimethylamine     | 3.557  | 42   | 4025     | 0.392 | ng    | # 97     |
| 6) bis(2-Chloroethyl)ether    | 7.183  | 93   | 8565     | 0.388 | ng    | 96       |
| 9) Naphthalene                | 10.616 | 128  | 23360    | 0.376 | ng    | 100      |
| 10) Hexachlorobutadiene       | 10.914 | 225  | 4273     | 0.404 | ng    | # 99     |
| 12) 2-Methylnaphthalene       | 12.238 | 142  | 13296    | 0.325 | ng    | 99       |
| 16) Acenaphthylene            | 14.142 | 152  | 19159    | 0.414 | ng    | 99       |
| 17) Acenaphthene              | 14.484 | 154  | 12125    | 0.376 | ng    | 99       |
| 18) Fluorene                  | 15.478 | 166  | 14602    | 0.349 | ng    | 98       |
| 20) 4,6-Dinitro-2-methylph... | 15.572 | 198  | 547      | 0.510 | ng    | # 57     |
| 21) 4-Bromophenyl-phenylether | 16.379 | 248  | 3913     | 0.383 | ng    | 99       |
| 22) Hexachlorobenzene         | 16.491 | 284  | 5133     | 0.409 | ng    | 100      |
| 23) Atrazine                  | 16.652 | 200  | 2423     | 0.372 | ng    | 99       |
| 24) Pentachlorophenol         | 16.838 | 266  | 1999     | 0.581 | ng    | 98       |
| 25) Phenanthrene              | 17.223 | 178  | 17412    | 0.376 | ng    | 99       |
| 26) Anthracene                | 17.310 | 178  | 15544    | 0.394 | ng    | 99       |
| 28) Fluoranthene              | 19.243 | 202  | 16190    | 0.363 | ng    | 99       |
| 30) Pyrene                    | 19.606 | 202  | 16181    | 0.319 | ng    | 100      |
| 32) Benzo(a)anthracene        | 21.357 | 228  | 13901    | 0.405 | ng    | 98       |
| 33) Chrysene                  | 21.402 | 228  | 15647    | 0.386 | ng    | 98       |
| 34) Bis(2-ethylhexyl)phtha... | 21.286 | 149  | 6216     | 0.331 | ng    | 100      |
| 36) Indeno(1,2,3-cd)pyrene    | 26.028 | 276  | 20586    | 0.429 | ng    | 96       |
| 37) Benzo(b)fluoranthene      | 22.978 | 252  | 16065    | 0.377 | ng    | 99       |
| 38) Benzo(k)fluoranthene      | 23.025 | 252  | 17114    | 0.387 | ng    | 98       |
| 39) Benzo(a)pyrene            | 23.575 | 252  | 14650    | 0.410 | ng    | 97       |
| 40) Dibenzo(a,h)anthracene    | 26.048 | 278  | 15805    | 0.435 | ng    | 98       |
| 41) Benzo(g,h,i)perylene      | 26.741 | 276  | 18052    | 0.416 | ng    | 98       |

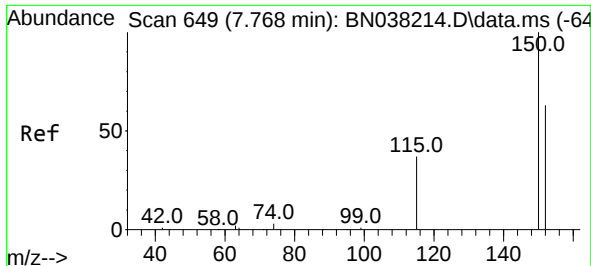
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Acq On : 01 Dec 2025 19:04  
Operator : RC/JU  
Sample : PB170712BS  
Misc :  
ALS Vial : 4 Sample Multiplier: 1

Instrument :  
BNA\_N  
ClientSampleId :  
PB170712BS

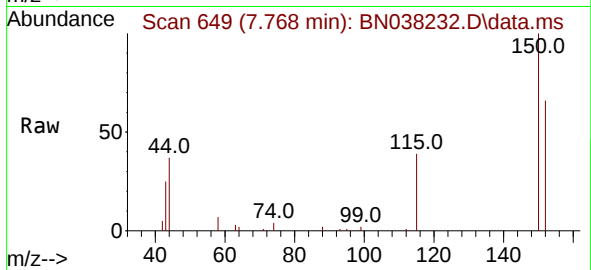
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Fri Nov 28 21:04:10 2025  
Response via : Initial Calibration



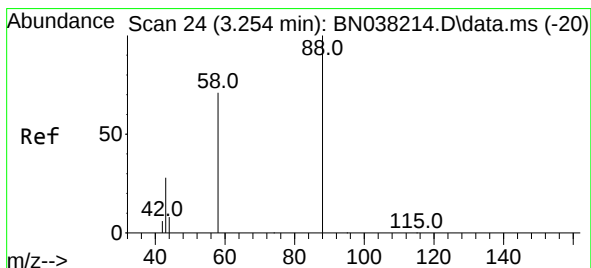
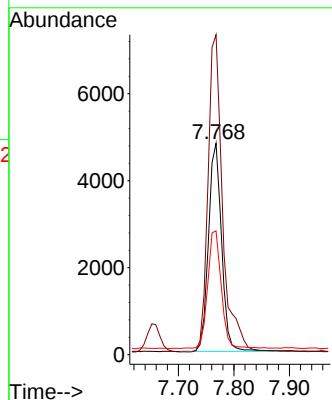
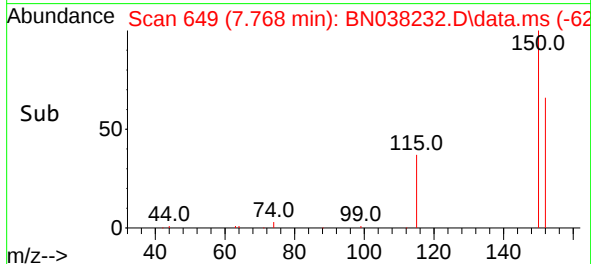


#1  
 1,4-Dichlorobenzene-d4  
 Concen: 0.400 ng  
 RT: 7.768 min Scan# 64  
 Delta R.T. -0.000 min  
 Lab File: BN038232.D  
 Acq: 01 Dec 2025 19:04

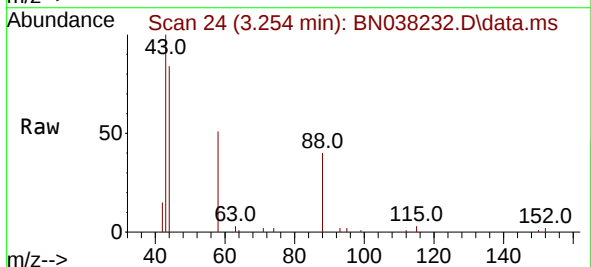
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 ClientSampleId :  
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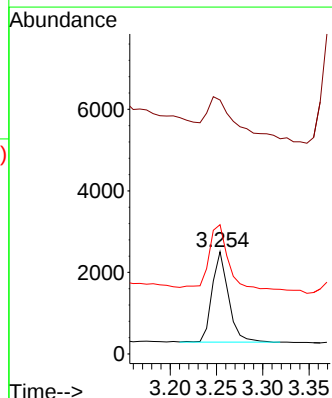
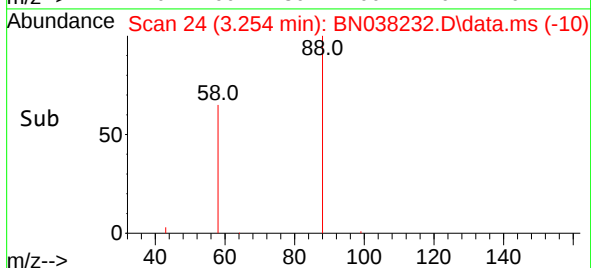
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 Ion Ratio Lower Upper  
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 150 151.4 125.3 187.9  
 115 58.6 49.0 73.4

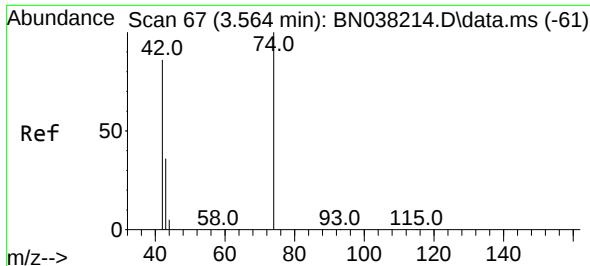


#2  
 1,4-Dioxane  
 Concen: 0.329 ng  
 RT: 3.254 min Scan# 24  
 Delta R.T. 0.000 min  
 Lab File: BN038232.D  
 Acq: 01 Dec 2025 19:04



Tgt Ion: 88 Resp: 2735  
 Ion Ratio Lower Upper  
 88 100  
 43 74.2 24.8 37.2#  
 58 85.6 61.1 91.7

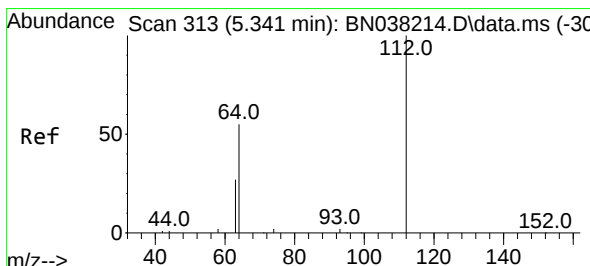
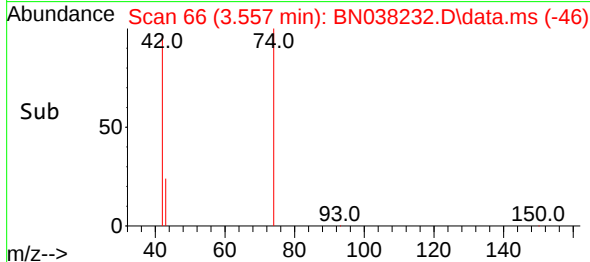
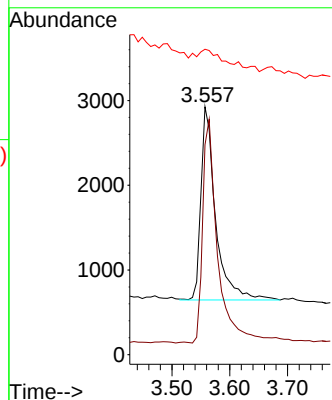
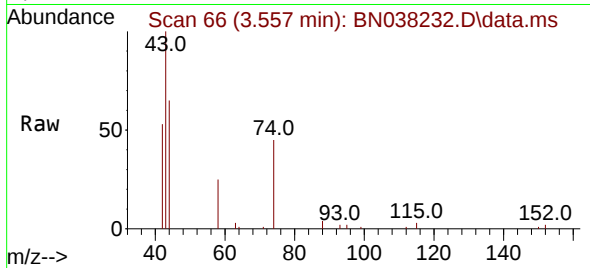




#3  
 n-Nitrosodimethylamine  
 Concen: 0.392 ng  
 RT: 3.557 min Scan# 61  
 Delta R.T. -0.007 min  
 Lab File: BN038232.D  
 Acq: 01 Dec 2025 19:04

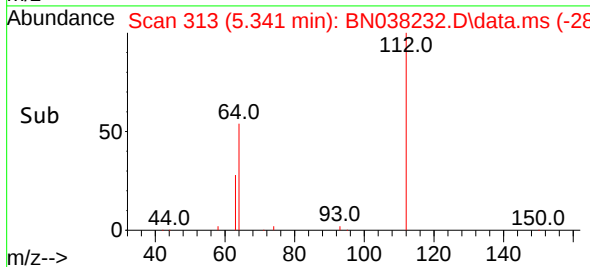
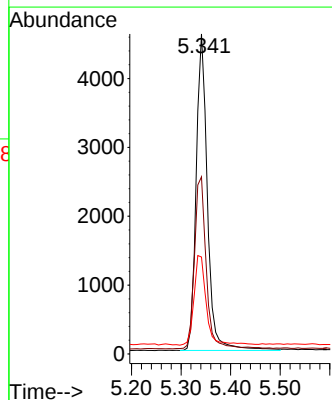
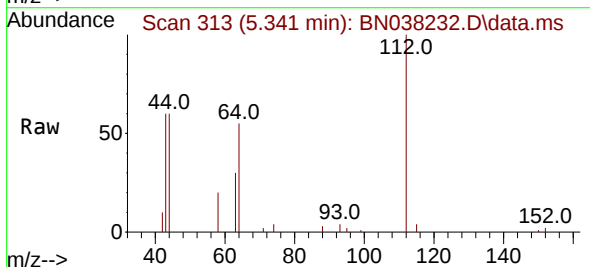
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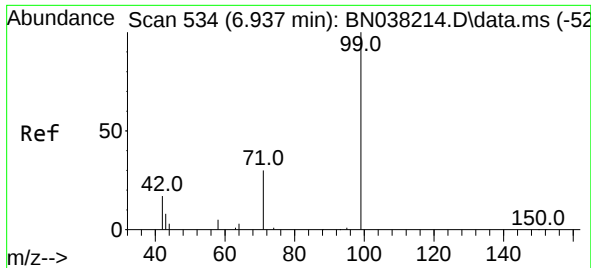
Tgt Ion: 42 Resp: 4025  
 Ion Ratio Lower Upper  
 42 100  
 74 119.7 96.2 144.2  
 44 20.7 8.0 12.0#



#4  
 2-Fluorophenol  
 Concen: 0.392 ng  
 RT: 5.341 min Scan# 313  
 Delta R.T. 0.000 min  
 Lab File: BN038232.D  
 Acq: 01 Dec 2025 19:04

Tgt Ion: 112 Resp: 7243  
 Ion Ratio Lower Upper  
 112 100  
 64 56.2 45.0 67.4  
 63 31.0 23.2 34.8

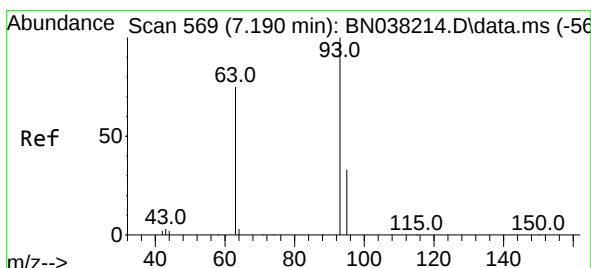
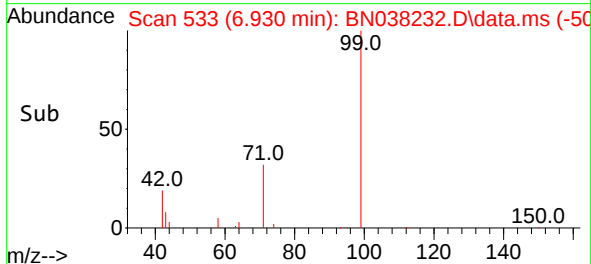
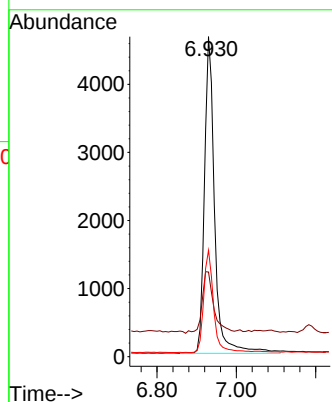
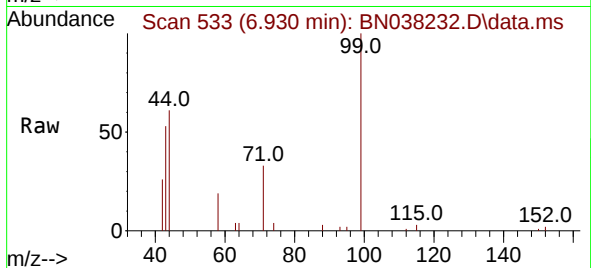




#5  
Phenol-d6  
Concen: 0.358 ng  
RT: 6.930 min Scan# 51  
Delta R.T. -0.007 min  
Lab File: BN038232.D  
Acq: 01 Dec 2025 19:04

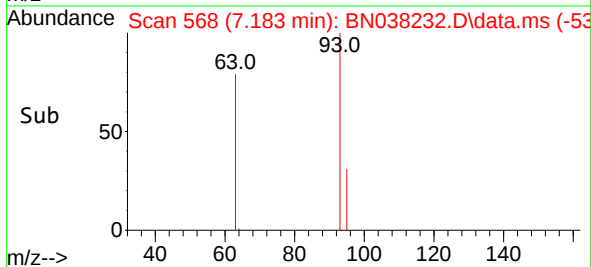
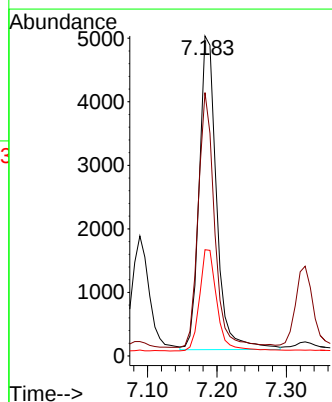
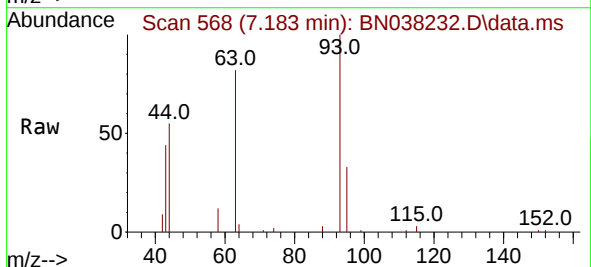
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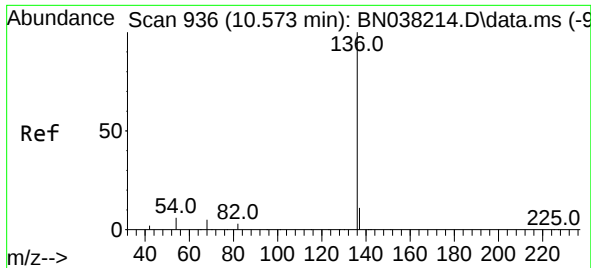
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 99    | Resp: | 8256  |
| Ion      | Ratio | Lower | Upper |
| 99       | 100   |       |       |
| 42       | 22.5  | 17.0  | 25.6  |
| 71       | 31.4  | 25.4  | 38.2  |



#6  
bis(2-Chloroethyl)ether  
Concen: 0.388 ng  
RT: 7.183 min Scan# 568  
Delta R.T. -0.007 min  
Lab File: BN038232.D  
Acq: 01 Dec 2025 19:04

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 93    | Resp: | 8565  |
| Ion      | Ratio | Lower | Upper |
| 93       | 100   |       |       |
| 63       | 76.9  | 58.1  | 87.1  |
| 95       | 32.6  | 25.1  | 37.7  |

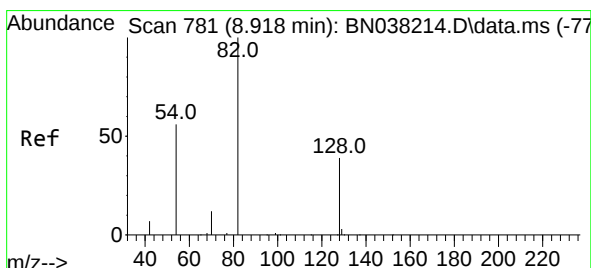
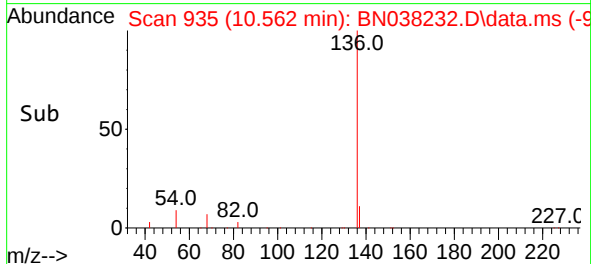
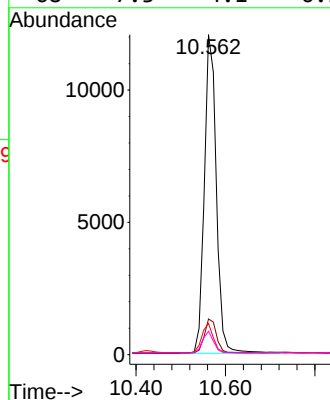
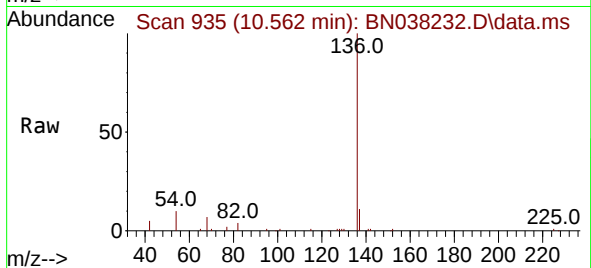




#7  
Naphthalene-d8  
Concen: 0.400 ng  
RT: 10.562 min Scan# 91  
Delta R.T. -0.011 min  
Lab File: BN038232.D  
Acq: 01 Dec 2025 19:04

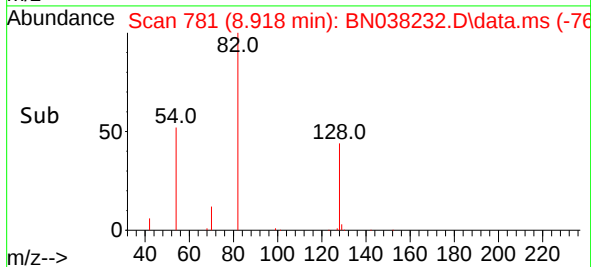
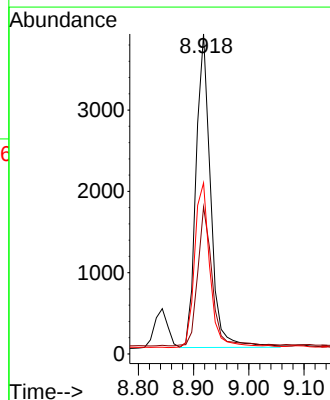
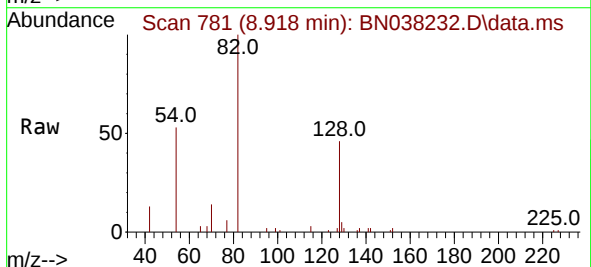
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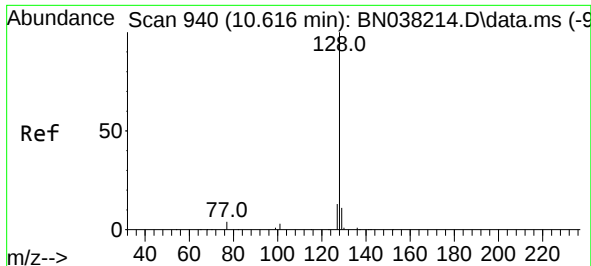
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 136   | Resp: | 22379 |
| Ion      | Ratio | Lower | Upper |
| 136      | 100   |       |       |
| 137      | 11.1  | 8.9   | 13.3  |
| 54       | 9.7   | 5.4   | 8.0#  |
| 68       | 7.3   | 4.1   | 6.1#  |



#8  
Nitrobenzene-d5  
Concen: 0.396 ng  
RT: 8.918 min Scan# 781  
Delta R.T. 0.000 min  
Lab File: BN038232.D  
Acq: 01 Dec 2025 19:04

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 82    | Resp: | 7089  |
| Ion      | Ratio | Lower | Upper |
| 82       | 100   |       |       |
| 128      | 46.0  | 32.6  | 48.8  |
| 54       | 53.5  | 45.4  | 68.0  |

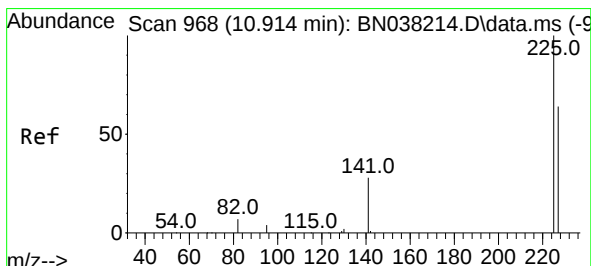
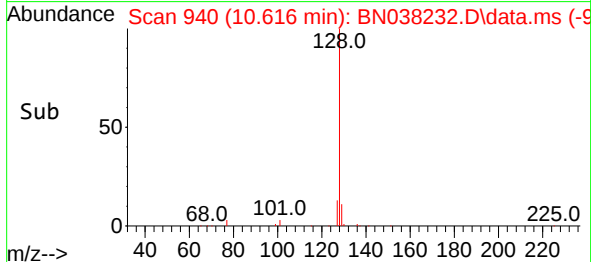
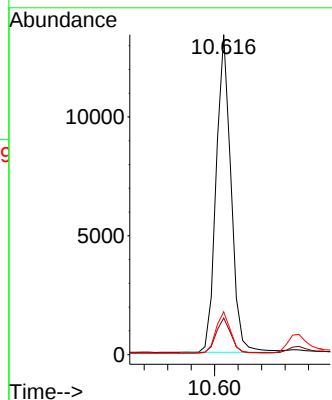
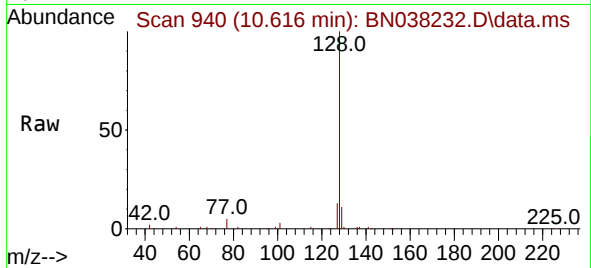




#9  
Naphthalene  
Concen: 0.376 ng  
RT: 10.616 min Scan# 940  
Delta R.T. 0.000 min  
Lab File: BN038232.D  
Acq: 01 Dec 2025 19:04

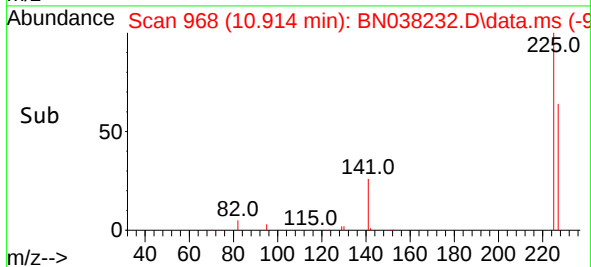
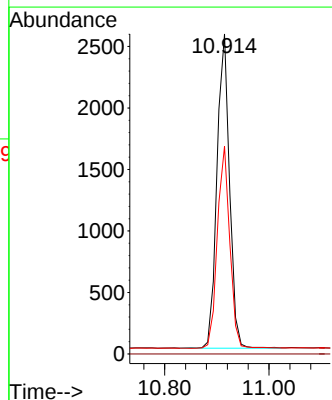
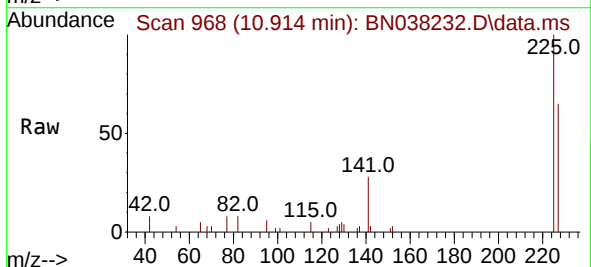
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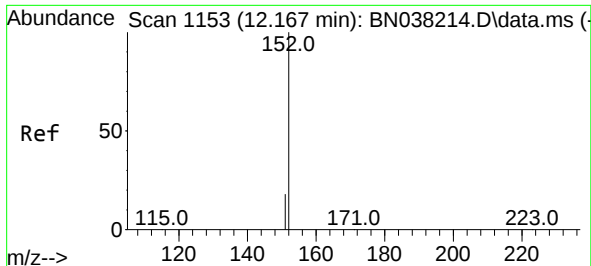
Tgt Ion:128 Resp: 23360  
Ion Ratio Lower Upper  
128 100  
129 11.5 9.1 13.7  
127 13.4 10.6 16.0



#10  
Hexachlorobutadiene  
Concen: 0.404 ng  
RT: 10.914 min Scan# 968  
Delta R.T. 0.000 min  
Lab File: BN038232.D  
Acq: 01 Dec 2025 19:04

Tgt Ion:225 Resp: 4273  
Ion Ratio Lower Upper  
225 100  
223 0.0 0.0 0.0  
227 63.9 50.5 75.7

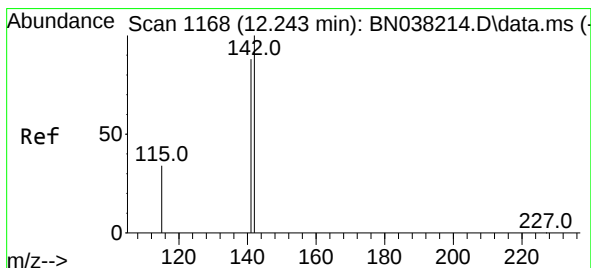
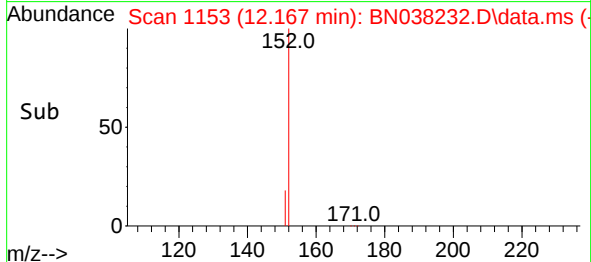
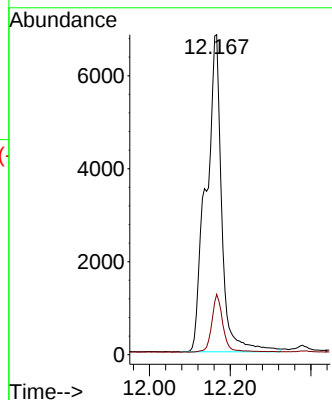
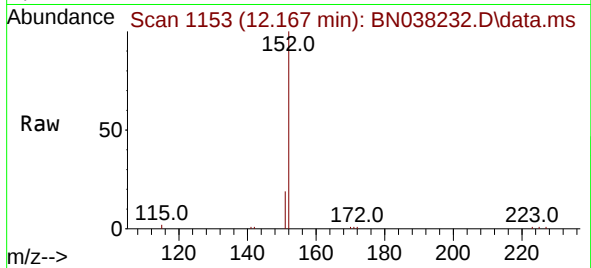




#11  
2-Methylnaphthalene-d10  
Concen: 0.578 ng  
RT: 12.167 min Scan# 1153  
Delta R.T. 0.000 min  
Lab File: BN038232.D  
Acq: 01 Dec 2025 19:04

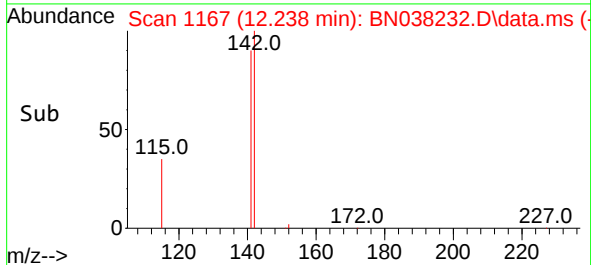
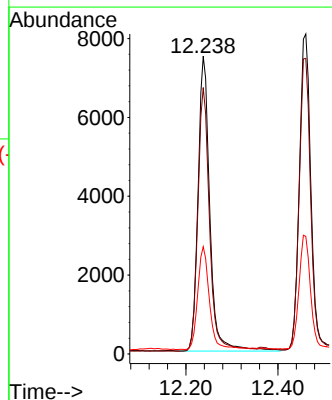
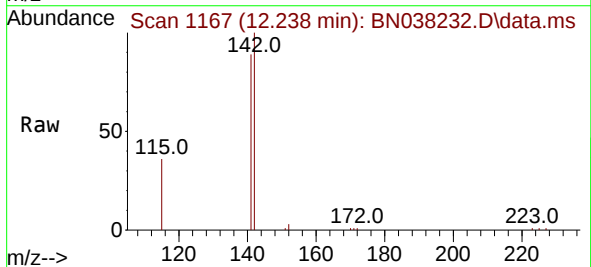
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ClientSampleId :  
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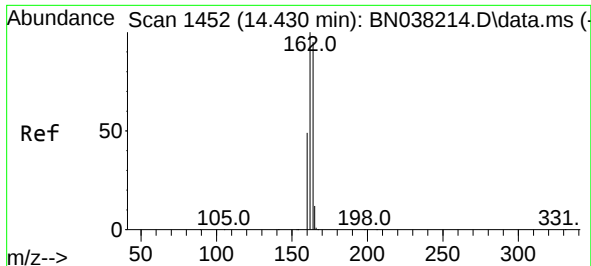
Tgt Ion:152 Resp: 18360  
Ion Ratio Lower Upper  
152 100  
151 12.8 16.7 25.1#



#12  
2-Methylnaphthalene  
Concen: 0.325 ng  
RT: 12.238 min Scan# 1167  
Delta R.T. -0.005 min  
Lab File: BN038232.D  
Acq: 01 Dec 2025 19:04

Tgt Ion:142 Resp: 13296  
Ion Ratio Lower Upper  
142 100  
141 89.5 70.9 106.3  
115 36.0 27.7 41.5

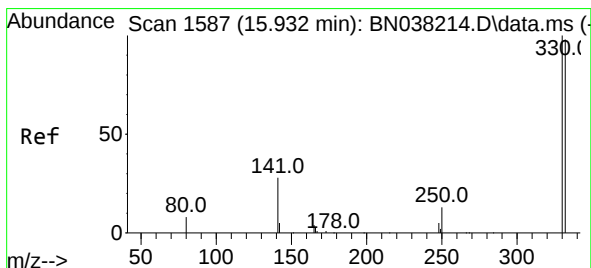
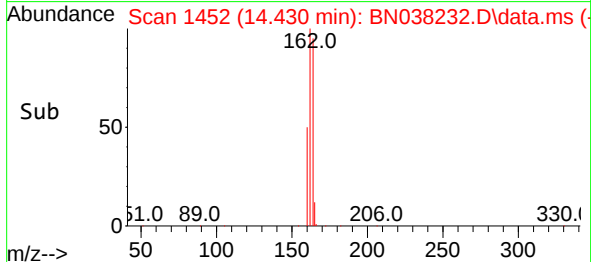
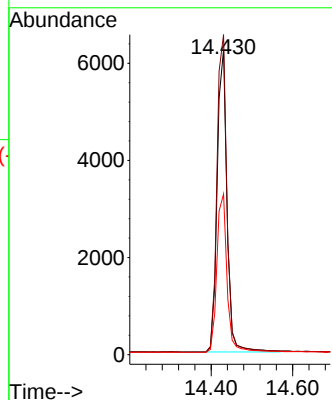
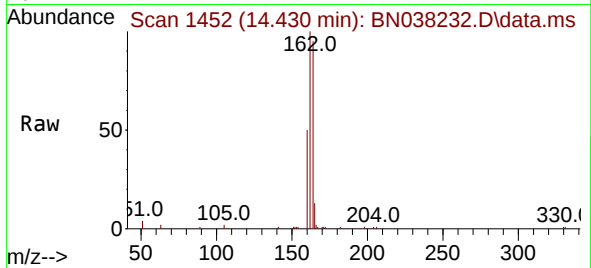




#13  
Acenaphthene-d10  
Concen: 0.400 ng  
RT: 14.430 min Scan# 1452  
Delta R.T. 0.000 min  
Lab File: BN038232.D  
Acq: 01 Dec 2025 19:04

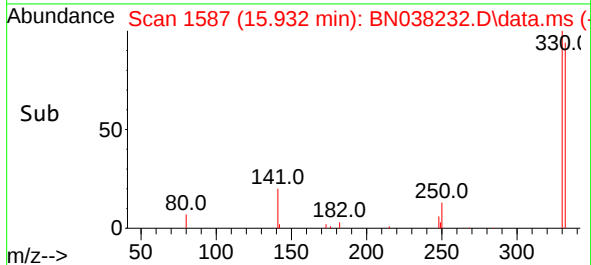
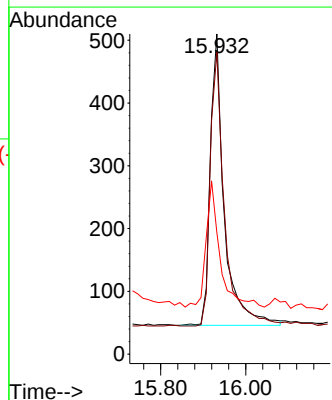
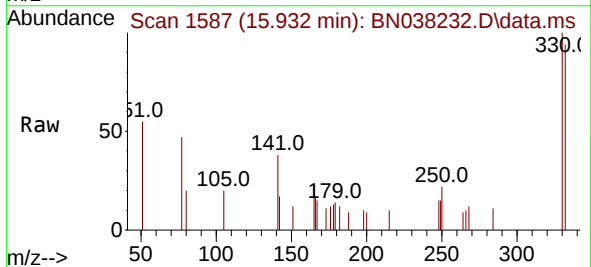
Instrument :  
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ClientSampleId :  
PB170712BS

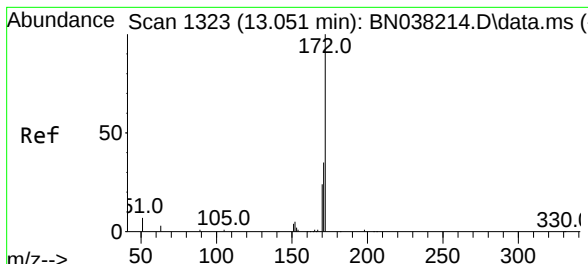
Tgt Ion:164 Resp: 10358  
Ion Ratio Lower Upper  
164 100  
162 104.9 83.8 125.8  
160 52.7 41.6 62.4



#14  
2,4,6-Tribromophenol  
Concen: 0.323 ng  
RT: 15.932 min Scan# 1587  
Delta R.T. 0.000 min  
Lab File: BN038232.D  
Acq: 01 Dec 2025 19:04

Tgt Ion:330 Resp: 1053  
Ion Ratio Lower Upper  
330 100  
332 97.5 77.8 116.6  
141 42.5 33.0 49.4

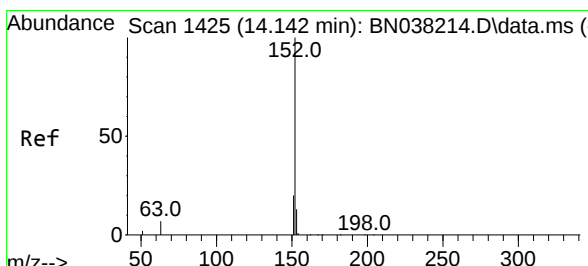
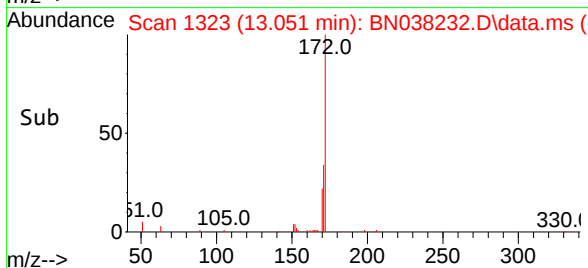
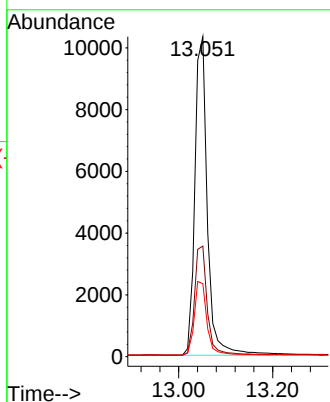
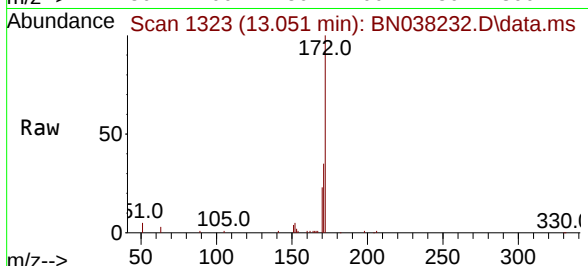




#15  
 2-Fluorobiphenyl  
 Concen: 0.453 ng  
 RT: 13.051 min Scan# 1323  
 Delta R.T. 0.000 min  
 Lab File: BN038232.D  
 Acq: 01 Dec 2025 19:04

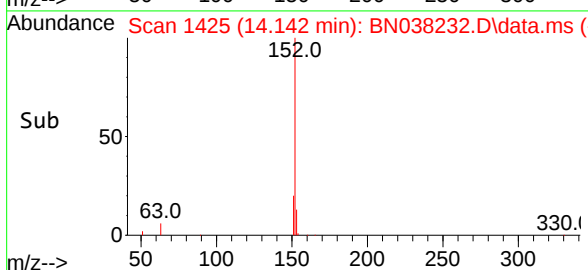
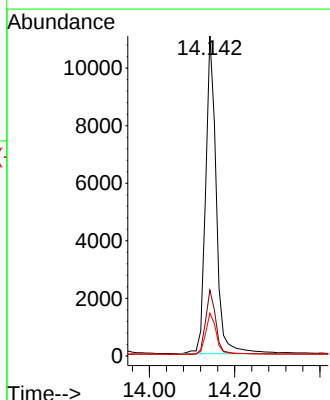
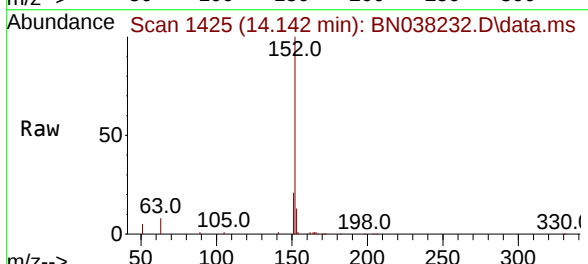
Instrument :  
 BNA\_N  
 ClientSampleId :  
 PB170712BS

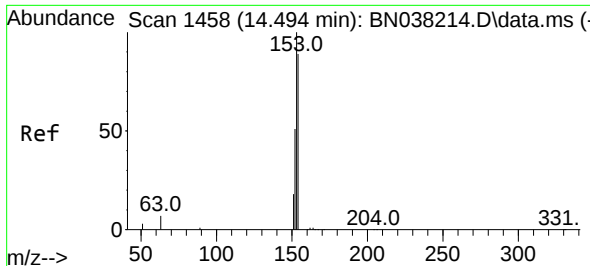
|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 172   | Resp: | 18137 |
| Ion Ratio | Lower | Upper |       |
| 172       | 100   |       |       |
| 171       | 34.6  | 28.1  | 42.1  |
| 170       | 22.8  | 19.1  | 28.7  |



#16  
 Acenaphthylene  
 Concen: 0.414 ng  
 RT: 14.142 min Scan# 1425  
 Delta R.T. 0.000 min  
 Lab File: BN038232.D  
 Acq: 01 Dec 2025 19:04

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 152   | Resp: | 19159 |
| Ion Ratio | Lower | Upper |       |
| 152       | 100   |       |       |
| 151       | 19.9  | 15.6  | 23.4  |
| 153       | 13.1  | 10.6  | 15.8  |

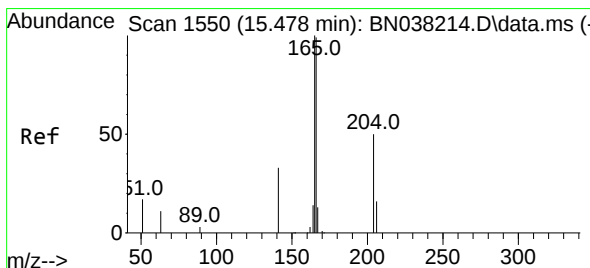
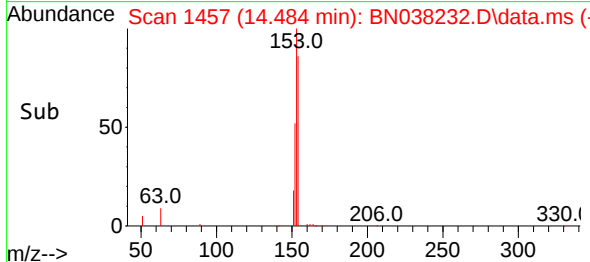
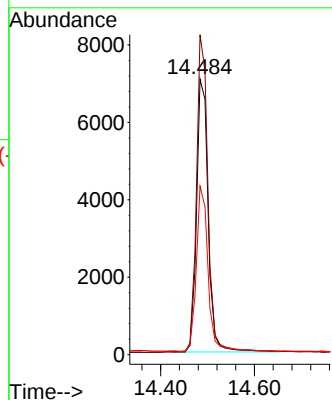
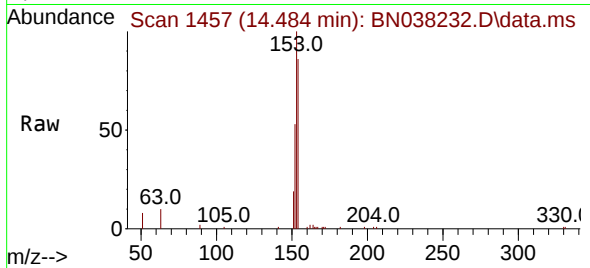




#17  
Acenaphthene  
Concen: 0.376 ng  
RT: 14.484 min Scan# 1457  
Delta R.T. -0.011 min  
Lab File: BN038232.D  
Acq: 01 Dec 2025 19:04

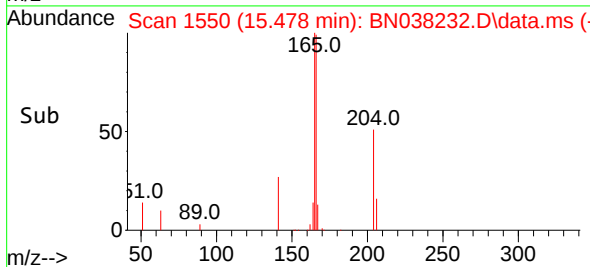
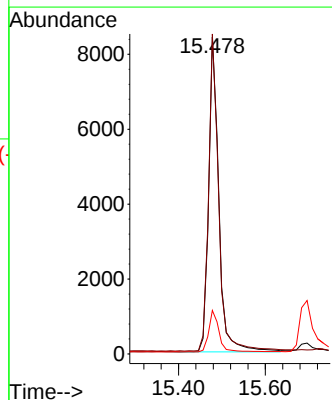
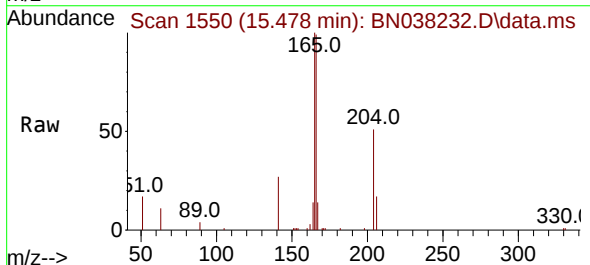
Instrument :  
BNA\_N  
ClientSampleId :  
PB170712BS

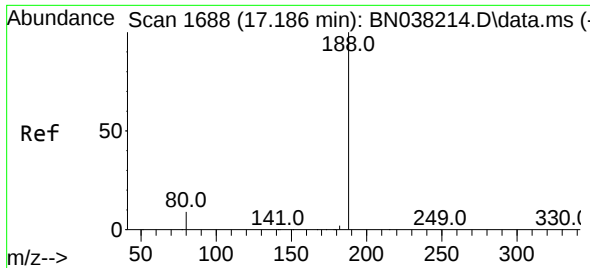
Tgt Ion:154 Resp: 12125  
Ion Ratio Lower Upper  
154 100  
153 115.2 91.1 136.7  
152 60.7 48.2 72.2



#18  
Fluorene  
Concen: 0.349 ng  
RT: 15.478 min Scan# 1550  
Delta R.T. -0.000 min  
Lab File: BN038232.D  
Acq: 01 Dec 2025 19:04

Tgt Ion:166 Resp: 14602  
Ion Ratio Lower Upper  
166 100  
165 100.1 78.7 118.1  
167 13.2 10.9 16.3

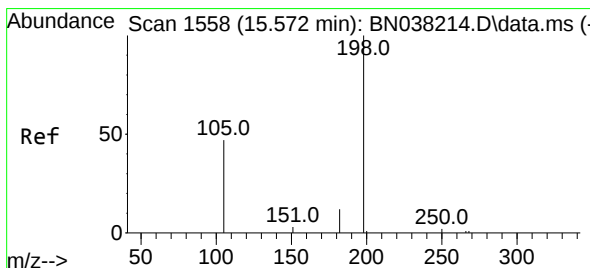
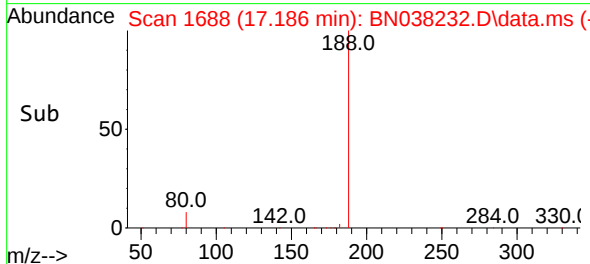
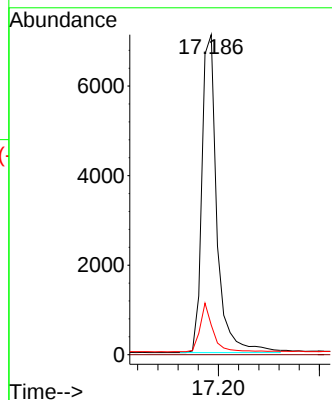
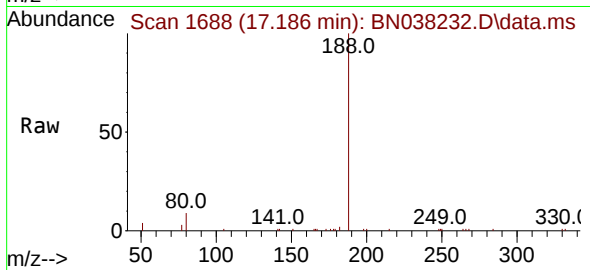




#19  
Phenanthrene-d10  
Concen: 0.400 ng  
RT: 17.186 min Scan# 1688  
Delta R.T. 0.000 min  
Lab File: BN038232.D  
Acq: 01 Dec 2025 19:04

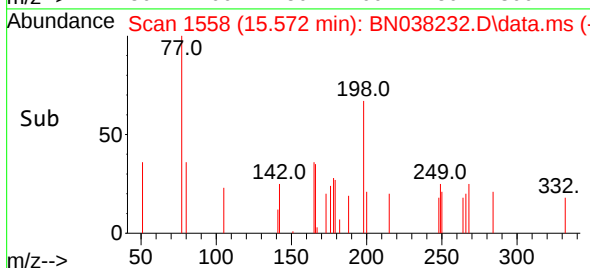
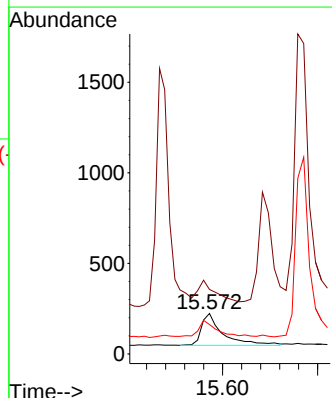
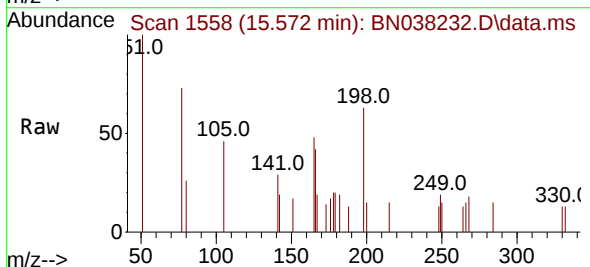
Instrument :  
BNA\_N  
ClientSampleId :  
PB170712BS

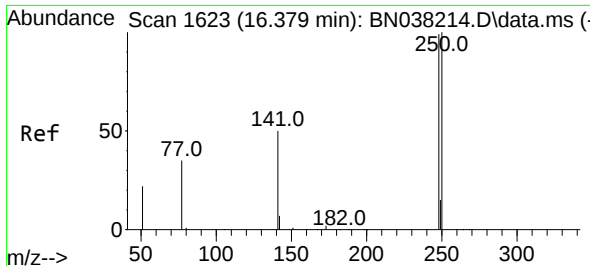
|             |       |       |
|-------------|-------|-------|
| Tgt Ion:188 | Resp: | 14739 |
| Ion Ratio   | Lower | Upper |
| 188         | 100   |       |
| 94          | 0.0   | 0.0   |
| 80          | 9.3   | 11.5  |



#20  
4,6-Dinitro-2-methylphenol  
Concen: 0.510 ng  
RT: 15.572 min Scan# 1558  
Delta R.T. 0.000 min  
Lab File: BN038232.D  
Acq: 01 Dec 2025 19:04

|             |       |       |
|-------------|-------|-------|
| Tgt Ion:198 | Resp: | 547   |
| Ion Ratio   | Lower | Upper |
| 198         | 100   |       |
| 51          | 158.9 | 205.1 |
| 105         | 72.8  | 61.6  |

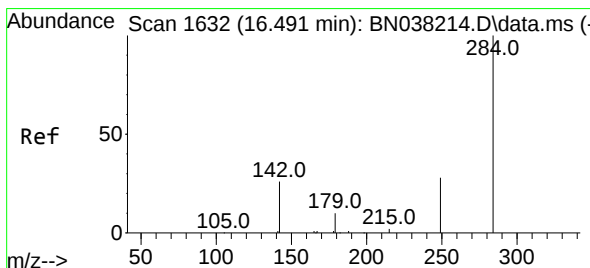
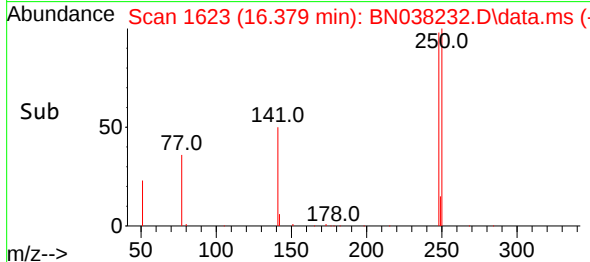
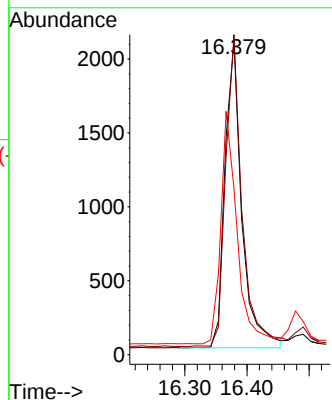
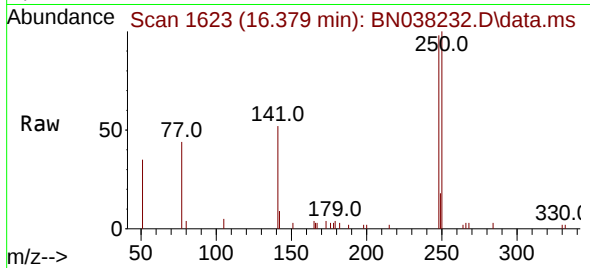




#21  
4-Bromophenyl-phenylether  
Concen: 0.383 ng  
RT: 16.379 min Scan# 1623  
Delta R.T. 0.000 min  
Lab File: BN038232.D  
Acq: 01 Dec 2025 19:04

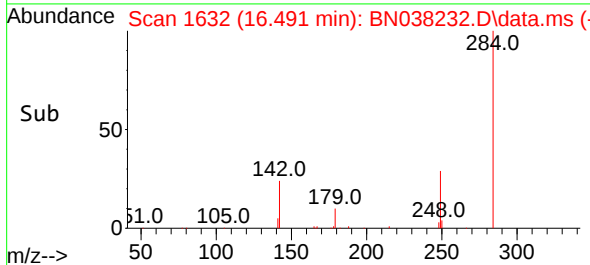
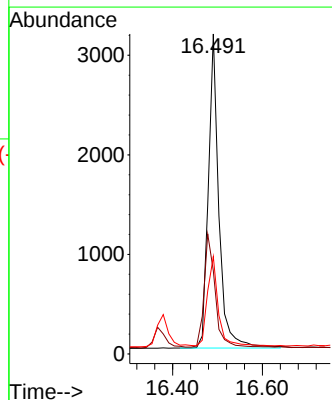
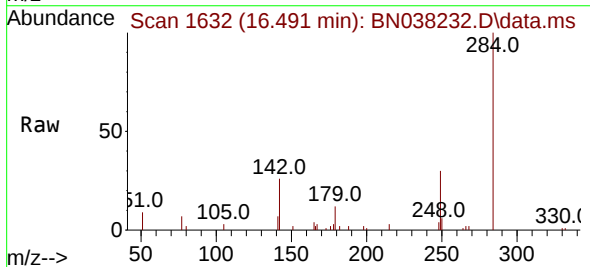
Instrument :  
BNA\_N  
ClientSampleId :  
PB170712BS

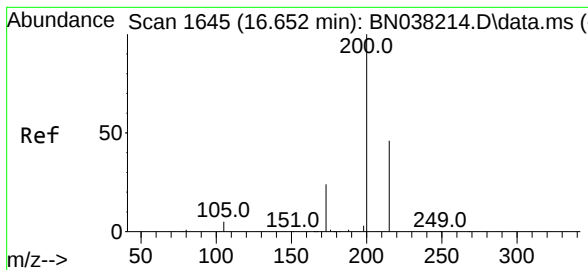
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 248   | Resp: | 3913  |
| Ion      | Ratio | Lower | Upper |
| 248      | 100   |       |       |
| 250      | 101.9 | 80.8  | 121.2 |
| 141      | 53.0  | 41.0  | 61.6  |



#22  
Hexachlorobenzene  
Concen: 0.409 ng  
RT: 16.491 min Scan# 1632  
Delta R.T. 0.000 min  
Lab File: BN038232.D  
Acq: 01 Dec 2025 19:04

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 284   | Resp: | 5133  |
| Ion      | Ratio | Lower | Upper |
| 284      | 100   |       |       |
| 142      | 37.8  | 30.5  | 45.7  |
| 249      | 29.7  | 23.8  | 35.8  |

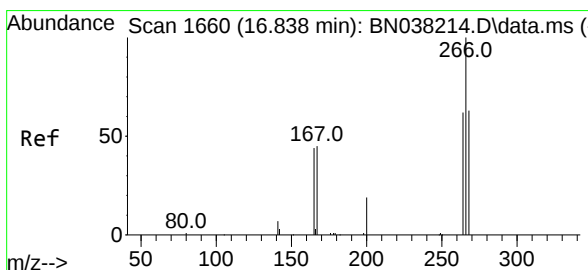
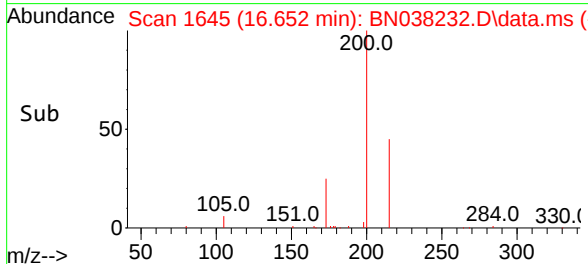
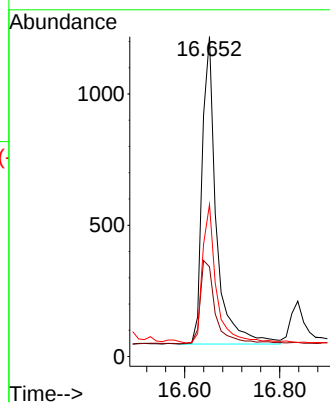
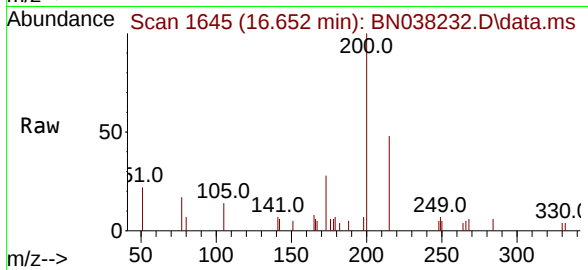




#23  
Atrazine  
Concen: 0.372 ng  
RT: 16.652 min Scan# 1645  
Delta R.T. 0.000 min  
Lab File: BN038232.D  
Acq: 01 Dec 2025 19:04

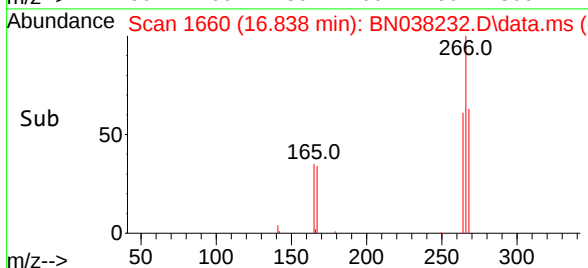
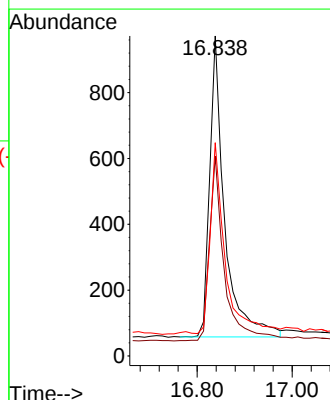
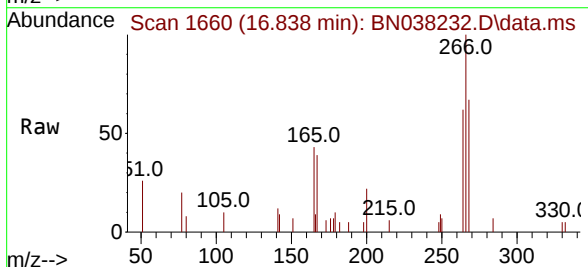
Instrument :  
BNA\_N  
ClientSampleId :  
PB170712BS

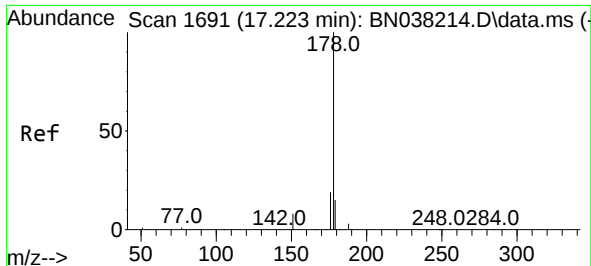
Tgt Ion:200 Resp: 2423  
Ion Ratio Lower Upper  
200 100  
173 28.1 21.0 31.6  
215 47.5 37.8 56.8



#24  
Pentachlorophenol  
Concen: 0.581 ng  
RT: 16.838 min Scan# 1660  
Delta R.T. 0.000 min  
Lab File: BN038232.D  
Acq: 01 Dec 2025 19:04

Tgt Ion:266 Resp: 1999  
Ion Ratio Lower Upper  
266 100  
264 60.8 48.9 73.3  
268 65.0 50.2 75.2

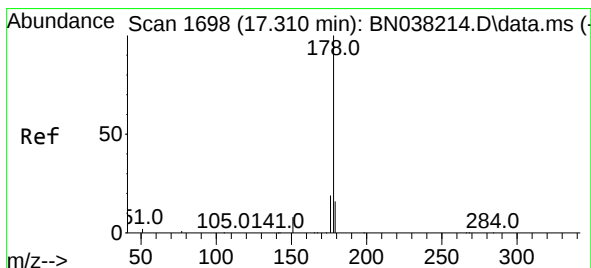
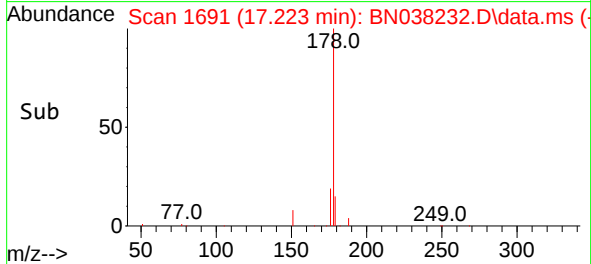
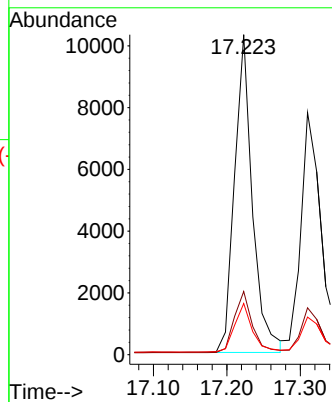
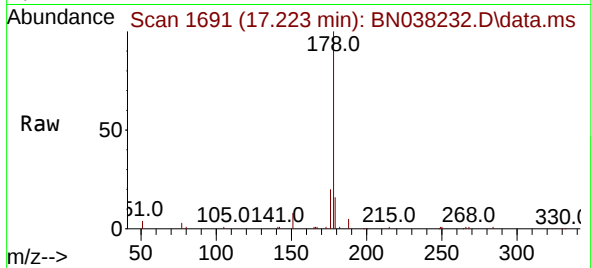




#25  
Phenanthrene  
Concen: 0.376 ng  
RT: 17.223 min Scan# 1691  
Delta R.T. 0.000 min  
Lab File: BN038232.D  
Acq: 01 Dec 2025 19:04

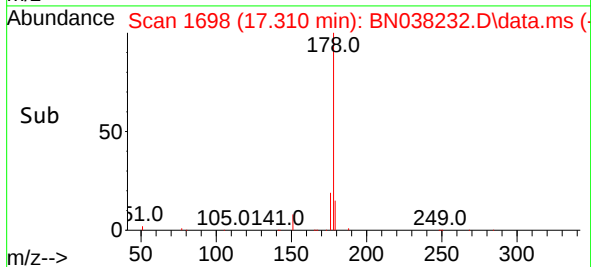
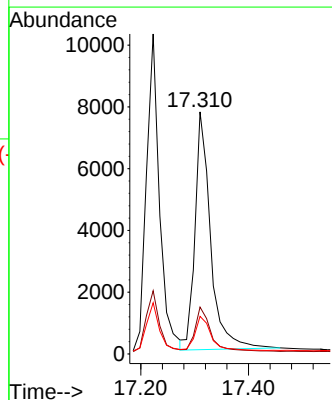
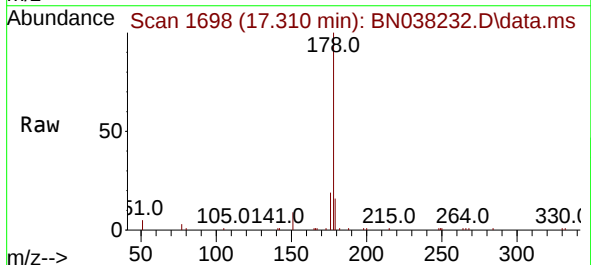
Instrument :  
BNA\_N  
ClientSampleId :  
PB170712BS

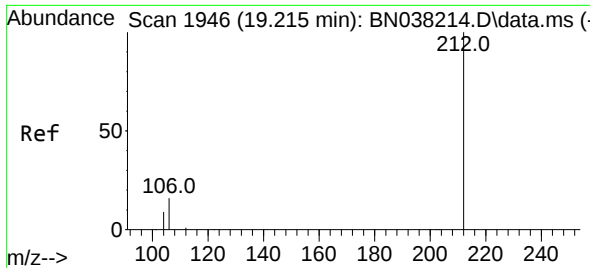
Tgt Ion:178 Resp: 17412  
Ion Ratio Lower Upper  
178 100  
176 19.5 15.3 22.9  
179 15.3 12.0 18.0



#26  
Anthracene  
Concen: 0.394 ng  
RT: 17.310 min Scan# 1698  
Delta R.T. 0.000 min  
Lab File: BN038232.D  
Acq: 01 Dec 2025 19:04

Tgt Ion:178 Resp: 15544  
Ion Ratio Lower Upper  
178 100  
176 19.0 14.7 22.1  
179 15.0 12.3 18.5

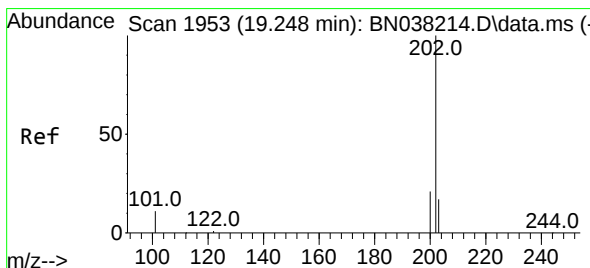
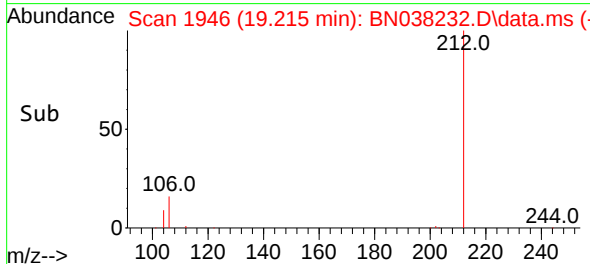
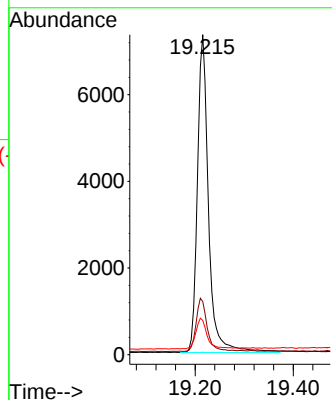
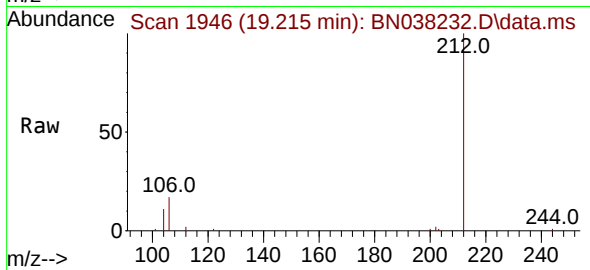




#27  
Fluoranthene-d10  
Concen: 0.359 ng  
RT: 19.215 min Scan# 1946  
Delta R.T. 0.000 min  
Lab File: BN038232.D  
Acq: 01 Dec 2025 19:04

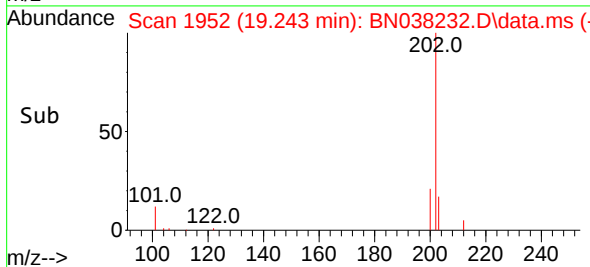
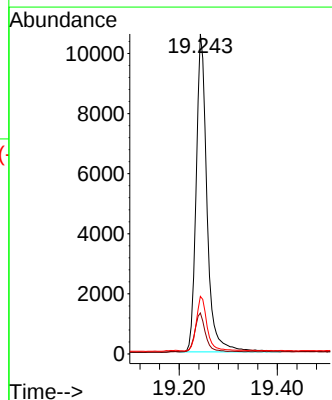
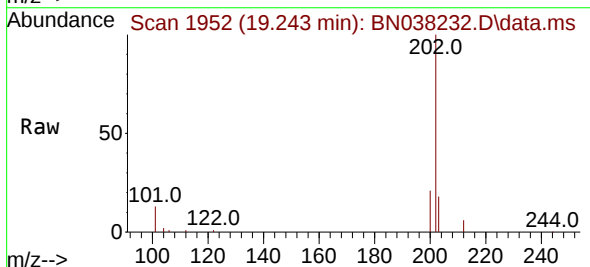
Instrument :  
BNA\_N  
ClientSampleId :  
PB170712BS

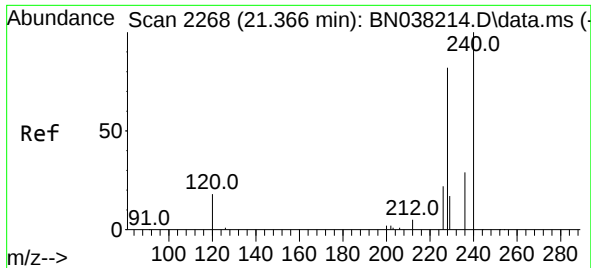
Tgt Ion:212 Resp: 11485  
Ion Ratio Lower Upper  
212 100  
106 16.6 12.7 19.1  
104 9.9 7.3 10.9



#28  
Fluoranthene  
Concen: 0.363 ng  
RT: 19.243 min Scan# 1952  
Delta R.T. -0.005 min  
Lab File: BN038232.D  
Acq: 01 Dec 2025 19:04

Tgt Ion:202 Resp: 16190  
Ion Ratio Lower Upper  
202 100  
101 11.9 9.8 14.6  
203 17.2 13.6 20.4

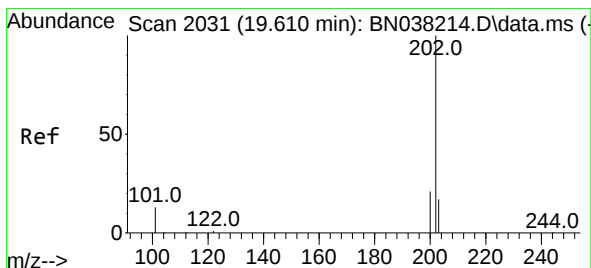
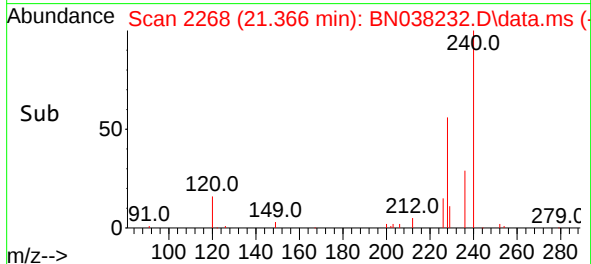
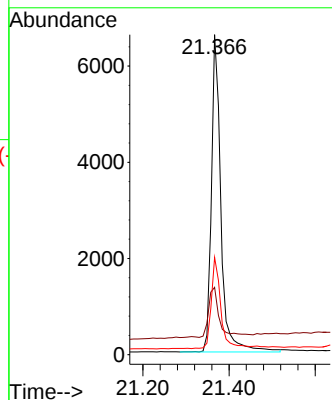
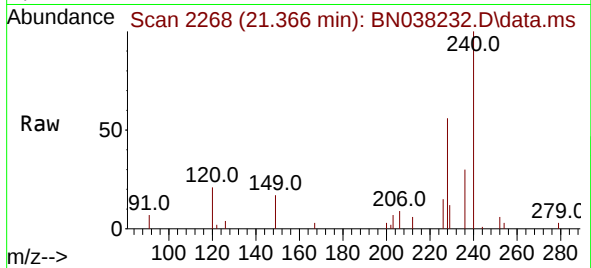




#29  
Chrysene-d12  
Concen: 0.400 ng  
RT: 21.366 min Scan# 21  
Delta R.T. 0.000 min  
Lab File: BN038232.D  
Acq: 01 Dec 2025 19:04

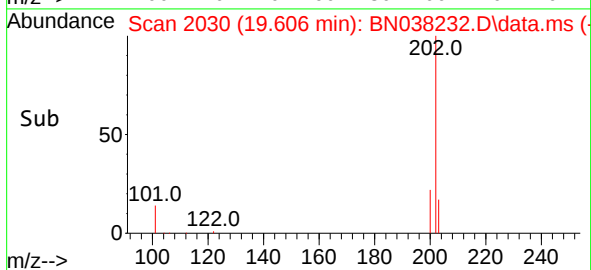
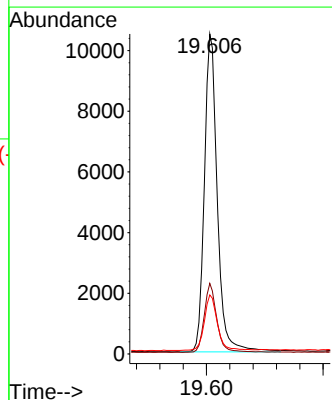
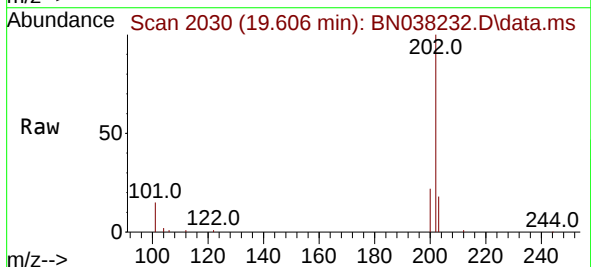
Instrument :  
BNA\_N  
ClientSampleId :  
PB170712BS

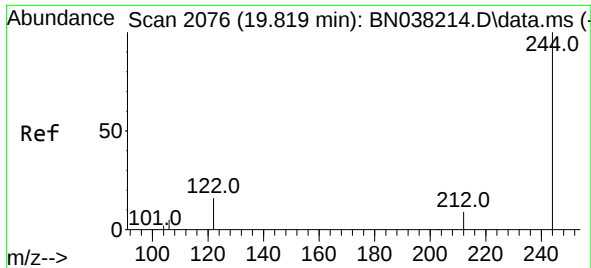
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 240     | 100   |       |       |
| 120     | 21.0  | 18.1  | 27.1  |
| 236     | 30.4  | 24.2  | 36.4  |



#30  
Pyrene  
Concen: 0.319 ng  
RT: 19.606 min Scan# 2030  
Delta R.T. -0.005 min  
Lab File: BN038232.D  
Acq: 01 Dec 2025 19:04

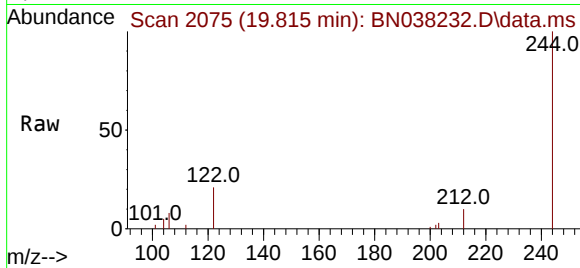
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 202     | 100   |       |       |
| 200     | 20.9  | 16.8  | 25.2  |
| 203     | 17.8  | 14.4  | 21.6  |



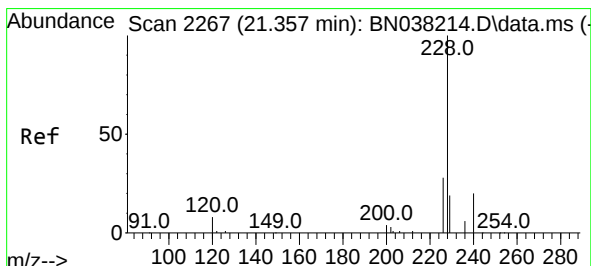
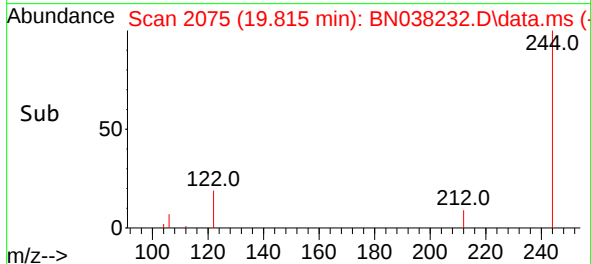
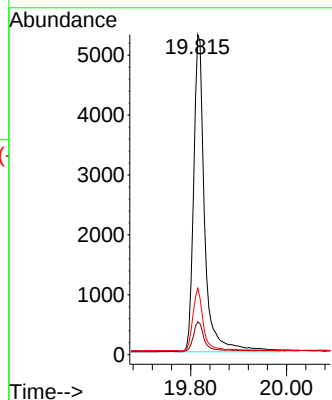


#31  
 Terphenyl-d14  
 Concen: 0.363 ng  
 RT: 19.815 min Scan# 2076  
 Delta R.T. -0.005 min  
 Lab File: BN038232.D  
 Acq: 01 Dec 2025 19:04

Instrument :  
 BNA\_N  
 ClientSampleId :  
 PB170712BS

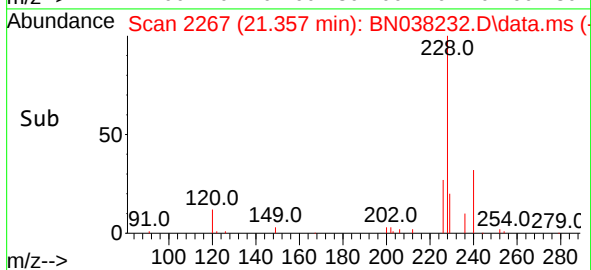
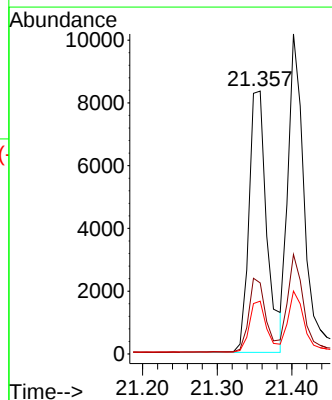
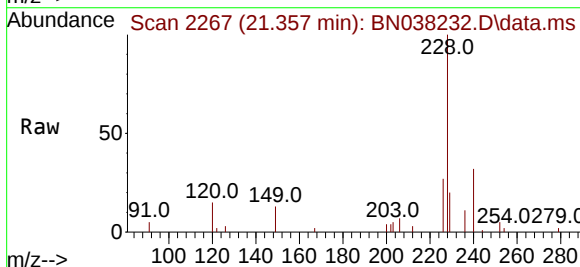


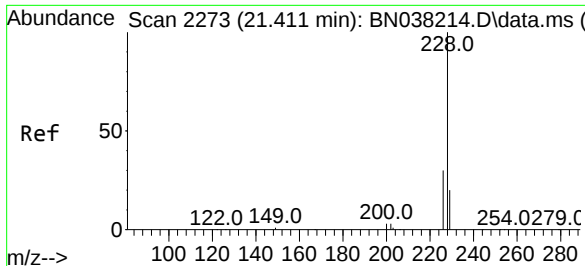
Tgt Ion:244 Resp: 8499  
 Ion Ratio Lower Upper  
 244 100  
 212 10.3 7.7 11.5  
 122 20.7 13.6 20.4#



#32  
 Benzo(a)anthracene  
 Concen: 0.405 ng  
 RT: 21.357 min Scan# 2267  
 Delta R.T. 0.000 min  
 Lab File: BN038232.D  
 Acq: 01 Dec 2025 19:04

Tgt Ion:228 Resp: 13901  
 Ion Ratio Lower Upper  
 228 100  
 226 27.1 22.6 33.8  
 229 20.1 15.8 23.8





#33

Chrysene

Concen: 0.386 ng

RT: 21.402 min Scan# 21

Delta R.T. -0.009 min

Lab File: BN038232.D

Acq: 01 Dec 2025 19:04

Instrument :

BNA\_N

ClientSampleId :

PB170712BS

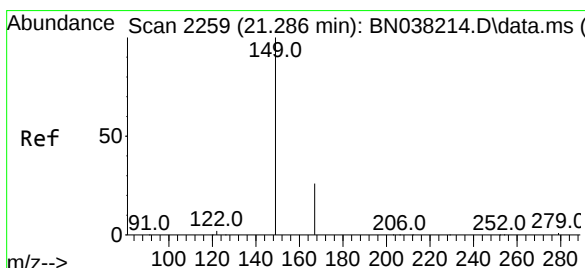
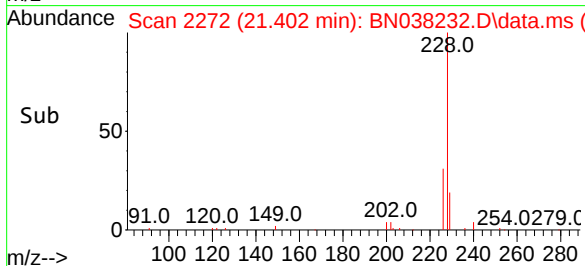
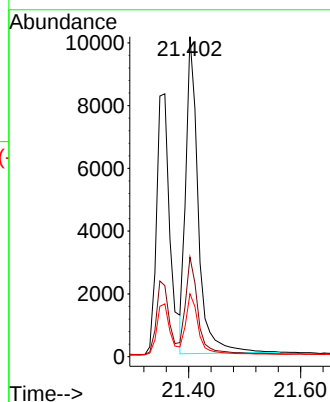
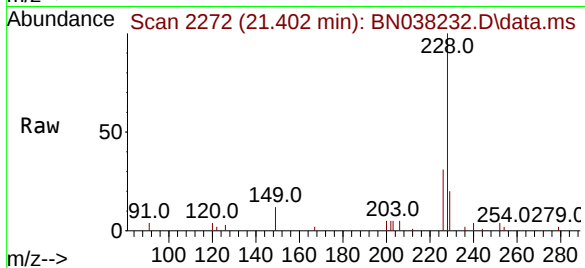
Tgt Ion:228 Resp: 15647

Ion Ratio Lower Upper

228 100

226 31.1 23.8 35.8

229 19.6 16.1 24.1



#34

Bis(2-ethylhexyl)phthalate

Concen: 0.331 ng

RT: 21.286 min Scan# 2259

Delta R.T. 0.000 min

Lab File: BN038232.D

Acq: 01 Dec 2025 19:04

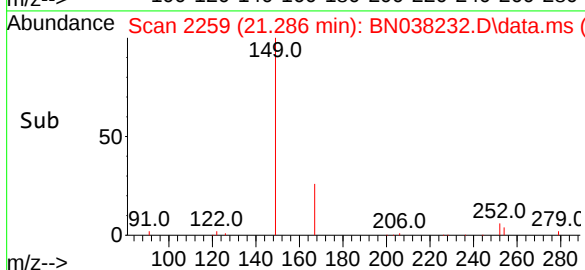
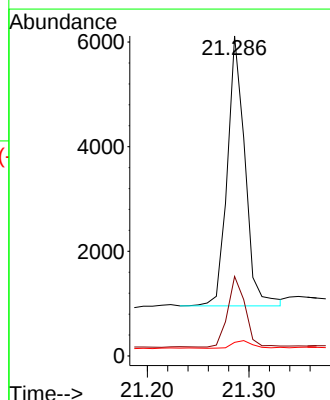
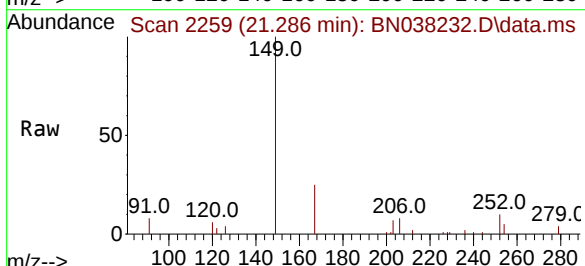
Tgt Ion:149 Resp: 6216

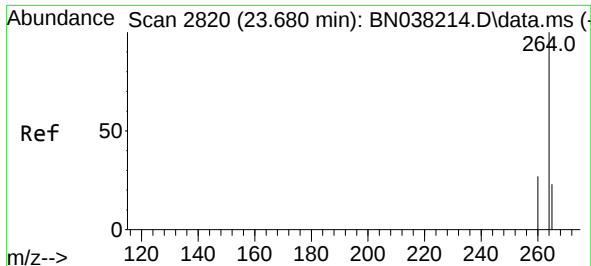
Ion Ratio Lower Upper

149 100

167 25.8 20.7 31.1

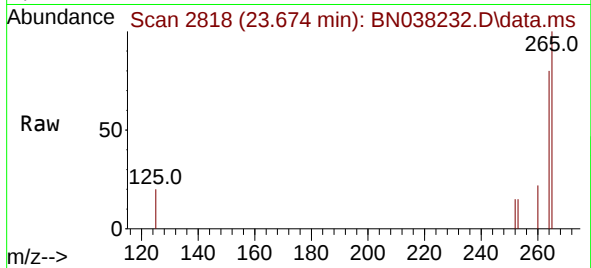
279 3.1 2.5 3.7



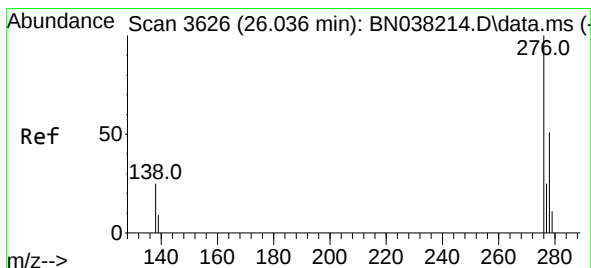
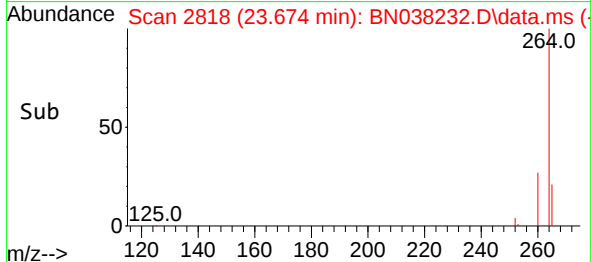
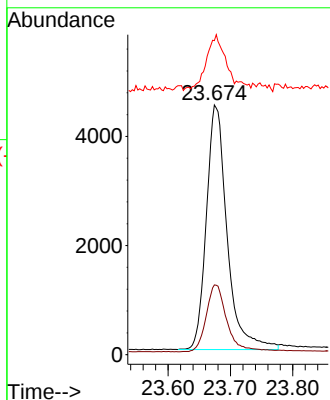


#35  
Perylene-d12  
Concen: 0.400 ng  
RT: 23.674 min Scan# 21  
Delta R.T. -0.006 min  
Lab File: BN038232.D  
Acq: 01 Dec 2025 19:04

Instrument :  
BNA\_N  
ClientSampleId :  
PB170712BS

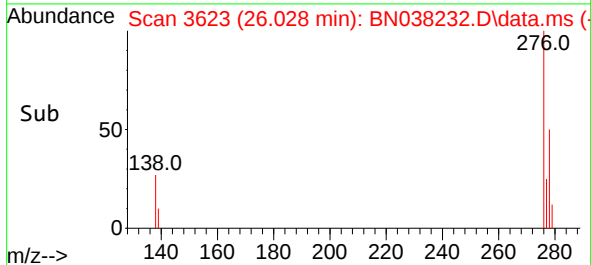
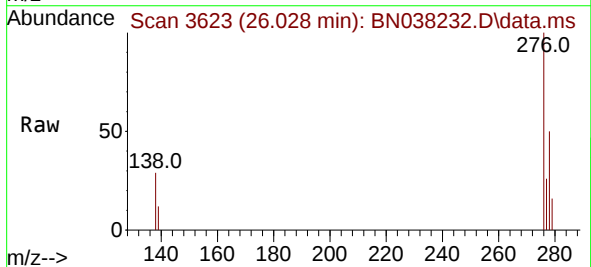
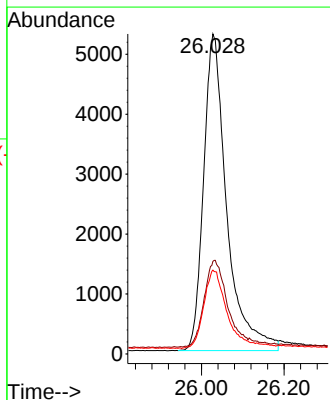


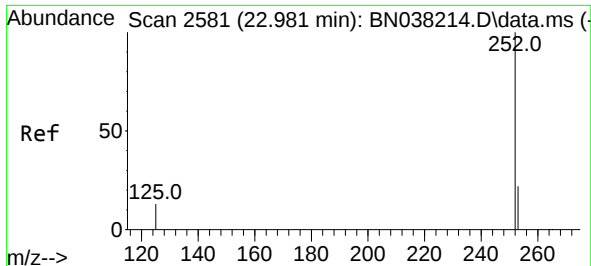
Tgt Ion:264 Resp: 10375  
Ion Ratio Lower Upper  
264 100  
260 28.0 21.7 32.5  
265 125.7 98.0 147.0



#36  
Indeno(1,2,3-cd)pyrene  
Concen: 0.429 ng  
RT: 26.028 min Scan# 3623  
Delta R.T. -0.009 min  
Lab File: BN038232.D  
Acq: 01 Dec 2025 19:04

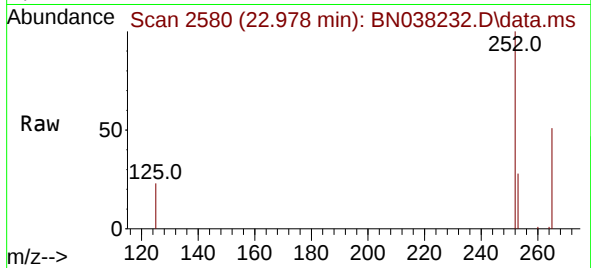
Tgt Ion:276 Resp: 20586  
Ion Ratio Lower Upper  
276 100  
138 28.8 21.4 32.2  
277 25.4 19.1 28.7



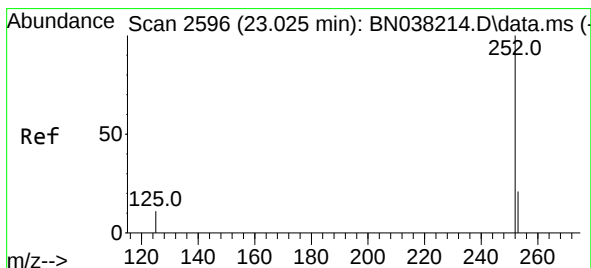
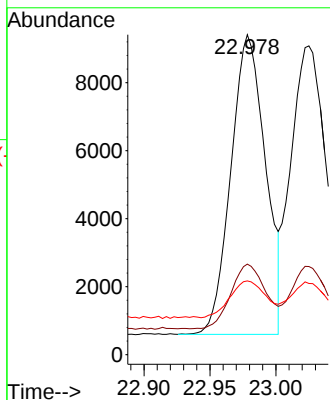


#37  
Benzo(b)fluoranthene  
Concen: 0.377 ng  
RT: 22.978 min Scan# 2580  
Delta R.T. -0.003 min  
Lab File: BN038232.D  
Acq: 01 Dec 2025 19:04

Instrument :  
BNA\_N  
ClientSampleId :  
PB170712BS

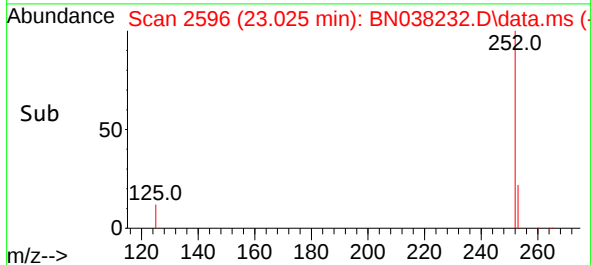
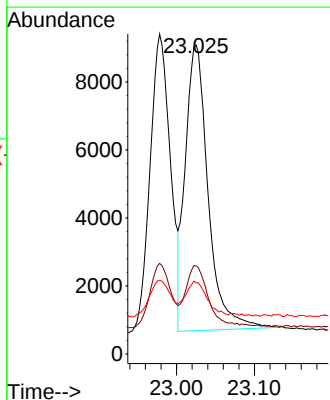
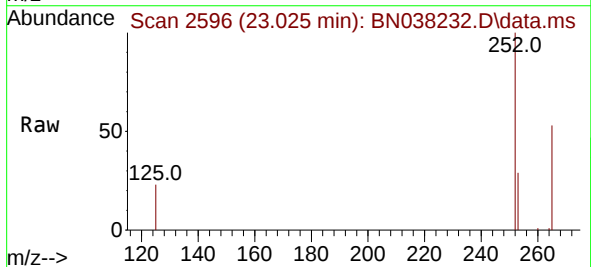


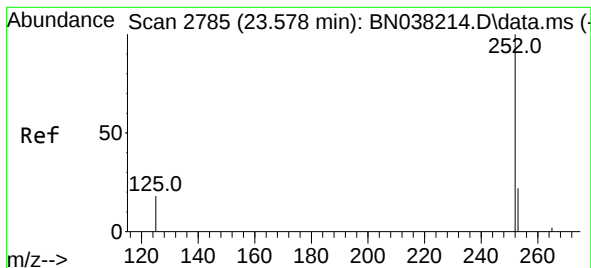
Tgt Ion:252 Resp: 16065  
Ion Ratio Lower Upper  
252 100  
253 28.3 22.2 33.4  
125 23.1 18.0 27.0



#38  
Benzo(k)fluoranthene  
Concen: 0.387 ng  
RT: 23.025 min Scan# 2596  
Delta R.T. 0.000 min  
Lab File: BN038232.D  
Acq: 01 Dec 2025 19:04

Tgt Ion:252 Resp: 17114  
Ion Ratio Lower Upper  
252 100  
253 28.5 22.4 33.6  
125 23.1 17.5 26.3





#39

Benzo(a)pyrene

Concen: 0.410 ng

RT: 23.575 min Scan# 21

Delta R.T. -0.003 min

Lab File: BN038232.D

Acq: 01 Dec 2025 19:04

Instrument :

BNA\_N

ClientSampleId :

PB170712BS

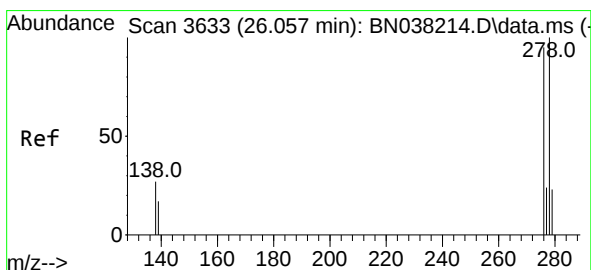
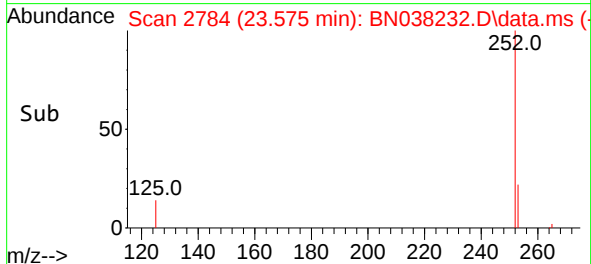
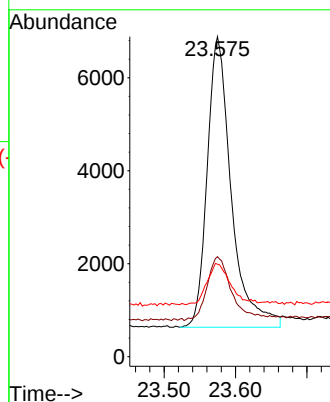
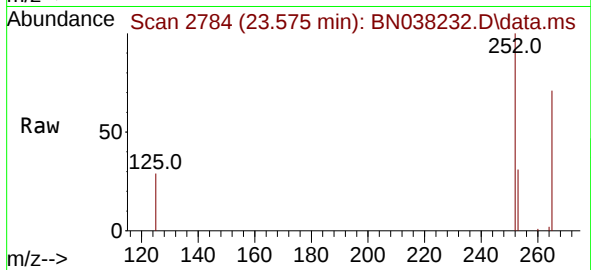
Tgt Ion:252 Resp: 14650

Ion Ratio Lower Upper

252 100

253 31.2 25.3 37.9

125 28.9 25.2 37.8



#40

Dibenzo(a,h)anthracene

Concen: 0.435 ng

RT: 26.048 min Scan# 3630

Delta R.T. -0.009 min

Lab File: BN038232.D

Acq: 01 Dec 2025 19:04

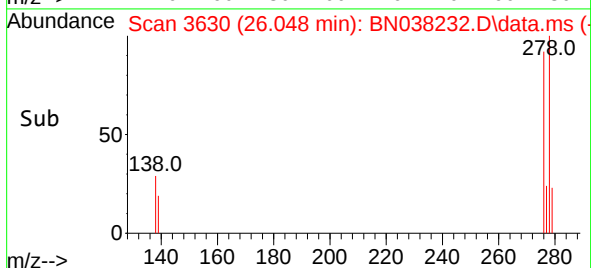
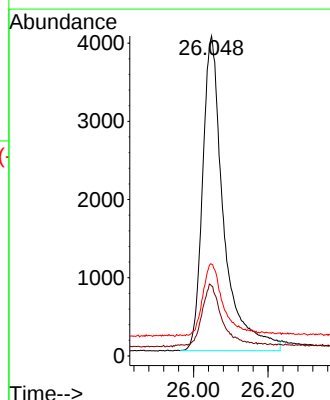
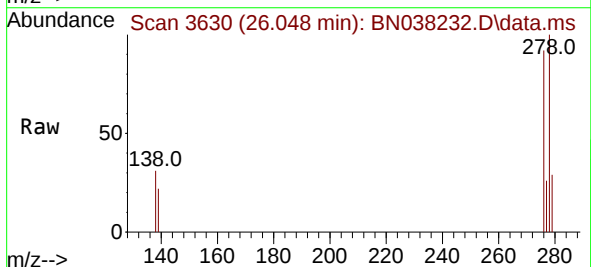
Tgt Ion:278 Resp: 15805

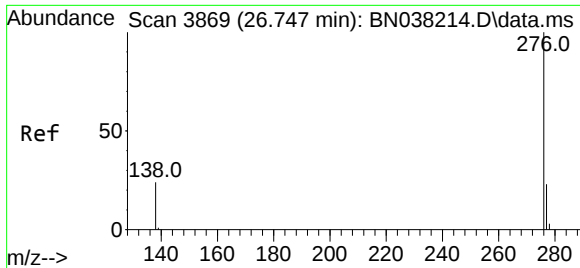
Ion Ratio Lower Upper

278 100

139 21.8 17.6 26.4

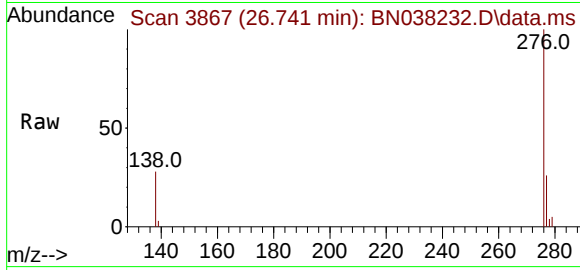
279 28.7 24.2 36.4





#41  
 Benzo(g,h,i)perylene  
 Concen: 0.416 ng  
 RT: 26.741 min Scan# 31  
 Delta R.T. -0.006 min  
 Lab File: BN038232.D  
 Acq: 01 Dec 2025 19:04

Instrument :  
 BNA\_N  
 ClientSampleId :  
 PB170712BS



|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 276   | Resp: | 18052 |
| Ion Ratio | Lower | Upper |       |
| 276       | 100   |       |       |
| 277       | 25.6  | 20.2  | 30.2  |
| 138       | 27.6  | 20.8  | 31.2  |

