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# Cover Page

**Order ID :** Q3095

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

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

| Lab Sample Number | Client Sample Number |
|---|---|
| Q3095-01 | MW305I-20250908 |
| Q3095-02 | MW179D-20250908 |
| Q3095-03 | MW201D-20250908 |
| Q3095-04 | MW179D1-20250908 |
| Q3095-05 | MW203D2-20250909 |
| Q3095-06 | Q3095-05MS |
| Q3095-07 | Q3095-05MSD |
| Q3095-08 | MW203D1-20250909 |
| Q3095-09 | MW179D2-20250909 |
| Q3095-10 | MW201D1-20250909 |
| Q3095-11 | RE122D1-20250909 |
| Q3095-12 | MW202D-20250909 |
| Q3095-13 | MW178I1-20250909 |
| Q3095-14 | RE123D1-20250909 |
| Q3095-15 | RE123D3-20250909 |
| Q3095-16 | MW305D-20250909 |
| Q3095-17 | DUP01-20250909 |
| Q3095-18 | RE126D2-20250909 |
| Q3095-19 | RE126D3-20250909 |
| Q3095-20 | MW178S-20250910 |
| Q3095-21 | RE126D1-20250910 |
| Q3095-22 | MW202D1-20250910 |
| Q3095-23 | RE104D2-20250910 |
| Q3095-24 | MW178I-20250910 |
| Q3095-25 | DUP02-20250910 |
| Q3095-26 | DUP03-20250910 |
| Q3095-27 | RE117D1-20250910 |
| Q3095-28 | RE104D3-20250910 |
| Q3095-29 | RE122D2-20250910 |

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: 9/23/2025

NYDOH CERTIFICATION NO - 11376

NJDEP CERTIFICATION NO - 20012

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# Cover Page

**Order ID :** Q3095

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

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

| Lab Sample Number | Client Sample Number |
|---|---|
| Q3095-30 | RE104D1-20250910 |
| Q3095-31 | TT180D-20250911 |
| Q3095-32 | RE122D3-20250911 |
| Q3095-33 | TB01-20250911 |
| Q3095-34 | TB02-20250911 |

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: 9/23/2025

NYDOH CERTIFICATION NO - 11376

NJDEP CERTIFICATION NO - 20012

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# DATA REPORTING QUALIFIERS- ORGANIC

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

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

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**APPENDIX A**

**QA REVIEW GENERAL DOCUMENTATION**

**Project #:** **Q3095**

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

**QA Review Signature:** **SOHIL JODHANI** **Date:** **09/23/2025**

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# LAB CHRONICLE

| | | | |
|---|---|---|---|
| **OrderID:** | Q3095 | **OrderDate:** | 9/12/2025 12:38:00 PM |
| **Client:** | AECOM Technical Services, Inc. | **Project:** | NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258 |
| **Contact:** | Eleanor Vivadou | **Location:** | D31,VOA Ref. #3 Water |

| LabID | ClientID | Matrix | Test | Method | Sample Date | Prep Date | Anal Date | Received |
|---|---|---|---|---|---|---|---|---|
| **Q3095-01** | **MW305I-20250908** | **Water** | | | **09/08/25** | | | **09/12/25** |
| | | | SVOC-SIMGroup1 | 8270-Modified | | 09/15/25 | 09/17/25 | |
| **Q3095-02** | **MW179D-20250908** | **Water** | | | **09/08/25** | | | **09/12/25** |
| | | | SVOC-SIMGroup1 | 8270-Modified | | 09/15/25 | 09/17/25 | |
| **Q3095-03** | **MW201D-20250908** | **Water** | | | **09/08/25** | | | **09/12/25** |
| | | | SVOC-SIMGroup1 | 8270-Modified | | 09/15/25 | 09/17/25 | |
| **Q3095-03DL** | **MW201D-20250908DL** | **Water** | | | **09/08/25** | | | **09/12/25** |
| | | | SVOC-SIMGroup1 | 8270-Modified | | 09/15/25 | 09/18/25 | |
| **Q3095-04** | **MW179D1-20250908** | **Water** | | | **09/08/25** | | | **09/12/25** |
| | | | SVOC-SIMGroup1 | 8270-Modified | | 09/15/25 | 09/17/25 | |
| **Q3095-05** | **MW203D2-20250909** | **Water** | | | **09/09/25** | | | **09/12/25** |
| | | | SVOC-SIMGroup1 | 8270-Modified | | 09/15/25 | 09/17/25 | |
| **Q3095-08** | **MW203D1-20250909** | **Water** | | | **09/09/25** | | | **09/12/25** |
| | | | SVOC-SIMGroup1 | 8270-Modified | | 09/15/25 | 09/17/25 | |
| **Q3095-09** | **MW179D2-20250909** | **Water** | | | **09/09/25** | | | **09/12/25** |
| | | | SVOC-SIMGroup1 | 8270-Modified | | 09/15/25 | 09/17/25 | |
| **Q3095-10** | **MW201D1-20250909** | **Water** | | | **09/09/25** | | | **09/12/25** |
| | | | SVOC-SIMGroup1 | 8270-Modified | | 09/15/25 | 09/17/25 | |
| **Q3095-11** | **RE122D1-20250909** | **Water** | | | **09/09/25** | | | **09/12/25** |
| | | | SVOC-SIMGroup1 | 8270-Modified | | 09/15/25 | 09/17/25 | |
| **Q3095-12** | **MW202D-20250909** | **Water** | | | **09/09/25** | | | **09/12/25** |
| | | | SVOC-SIMGroup1 | 8270-Modified | | 09/15/25 | 09/18/25 | |
| **Q3095-13** | **MW178I1-20250909** | **Water** | | | **09/09/25** | | | **09/12/25** |

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## LAB CHRONICLE

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | | | SVOC-SIMGroup1 | 8270-Modified | | 09/15/25 | 09/17/25 | |
| **Q3095-14** | **RE123D1-20250909** | **Water** | | | **09/09/25** | | | **09/12/25** |
| | | | SVOC-SIMGroup1 | 8270-Modified | | 09/15/25 | 09/18/25 | |
| **Q3095-15** | **RE123D3-20250909** | **Water** | | | **09/09/25** | | | **09/12/25** |
| | | | SVOC-SIMGroup1 | 8270-Modified | | 09/15/25 | 09/18/25 | |
| **Q3095-16** | **MW305D-20250909** | **Water** | | | **09/09/25** | | | **09/12/25** |
| | | | SVOC-SIMGroup1 | 8270-Modified | | 09/15/25 | 09/18/25 | |
| **Q3095-17** | **DUP01-20250909** | **Water** | | | **09/09/25** | | | **09/12/25** |
| | | | SVOC-SIMGroup1 | 8270-Modified | | 09/15/25 | 09/18/25 | |
| **Q3095-18** | **RE126D2-20250909** | **Water** | | | **09/09/25** | | | **09/12/25** |
| | | | SVOC-SIMGroup1 | 8270-Modified | | 09/15/25 | 09/18/25 | |
| **Q3095-19** | **RE126D3-20250909** | **Water** | | | **09/09/25** | | | **09/12/25** |
| | | | SVOC-SIMGroup1 | 8270-Modified | | 09/15/25 | 09/18/25 | |
| **Q3095-20** | **MW178S-20250910** | **Water** | | | **09/10/25** | | | **09/12/25** |
| | | | SVOC-SIMGroup1 | 8270-Modified | | 09/15/25 | 09/18/25 | |
| **Q3095-21** | **RE126D1-20250910** | **Water** | | | **09/10/25** | | | **09/12/25** |
| | | | SVOC-SIMGroup1 | 8270-Modified | | 09/15/25 | 09/18/25 | |
| **Q3095-22** | **MW202D1-20250910** | **Water** | | | **09/10/25** | | | **09/12/25** |
| | | | SVOC-SIMGroup1 | 8270-Modified | | 09/15/25 | 09/18/25 | |
| **Q3095-23** | **RE104D2-20250910** | **Water** | | | **09/10/25** | | | **09/12/25** |
| | | | SVOC-SIMGroup1 | 8270-Modified | | 09/15/25 | 09/18/25 | |
| **Q3095-24** | **MW178I-20250910** | **Water** | | | **09/10/25** | | | **09/12/25** |
| | | | SVOC-SIMGroup1 | 8270-Modified | | 09/15/25 | 09/18/25 | |
| **Q3095-25** | **DUP02-20250910** | **Water** | | | **09/10/25** | | | **09/12/25** |
| | | | SVOC-SIMGroup1 | 8270-Modified | | 09/15/25 | 09/18/25 | |
| **Q3095-26** | **DUP03-20250910** | **Water** | | | **09/10/25** | | | **09/12/25** |
| | | | SVOC-SIMGroup1 | 8270-Modified | | 09/15/25 | 09/18/25 | |
| **Q3095-27** | **RE117D1-20250910** | **Water** | | | **09/10/25** | | | **09/12/25** |
| | | | SVOC-SIMGroup1 | 8270-Modified | | 09/15/25 | 09/19/25 | |

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# LAB CHRONICLE

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| **Q3095-28** | **RE104D3-20250910** | **Water** | | | **09/10/25** | | | **09/12/25** |
| | | | SVOC-SIMGroup1 | 8270-Modified | | 09/15/25 | 09/20/25 | |
| **Q3095-29** | **RE122D2-20250910** | **Water** | | | **09/10/25** | | | **09/12/25** |
| | | | SVOC-SIMGroup1 | 8270-Modified | | 09/15/25 | 09/19/25 | |
| **Q3095-30** | **RE104D1-20250910** | **Water** | | | **09/10/25** | | | **09/12/25** |
| | | | SVOC-SIMGroup1 | 8270-Modified | | 09/15/25 | 09/19/25 | |
| **Q3095-31** | **TT180D-20250911** | **Water** | | | **09/11/25** | | | **09/12/25** |
| | | | SVOC-SIMGroup1 | 8270-Modified | | 09/15/25 | 09/19/25 | |
| **Q3095-32** | **RE122D3-20250911** | **Water** | | | **09/11/25** | | | **09/12/25** |
| | | | SVOC-SIMGroup1 | 8270-Modified | | 09/15/25 | 09/19/25 | |

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# Hit Summary Sheet
**SW-846**

**SDG No.:** Q3095

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

| Sample ID | Client ID | | Parameter | Concentration | C | MDL | LOD | RDL | Units |
|---|---|---|---|---|---|---|---|---|---|
| **Client ID : MW305I-20250908** | | | | | | | | | |
| Q3095-01 | MW305I-20250908 | WATER | 1,4-Dioxane | 0.430 | | 0.07 | 0.2 | 0.2 | ug/L |
| | | | **Total Svoc :** | **0.43** | | | | | |
| | | | **Total Concentration:** | **0.43** | | | | | |
| **Client ID : MW179D-20250908** | | | | | | | | | |
| Q3095-02 | MW179D-20250908 | WATER | 1,4-Dioxane | 0.160 | J | 0.07 | 0.2 | 0.2 | ug/L |
| | | | **Total Svoc :** | **0.16** | | | | | |
| | | | **Total Concentration:** | **0.16** | | | | | |
| **Client ID : MW201D-20250908** | | | | | | | | | |
| Q3095-03 | MW201D-20250908 | WATER | 1,4-Dioxane | 5.900 | E | 0.07 | 0.2 | 0.2 | ug/L |
| | | | **Total Svoc :** | **5.90** | | | | | |
| | | | **Total Concentration:** | **5.90** | | | | | |
| **Client ID : MW201D-20250908DL** | | | | | | | | | |
| Q3095-03DL | MW201D-20250908DL | WATER | 1,4-Dioxane | 5.700 | D | 0.13 | 0.4 | 0.4 | ug/L |
| | | | **Total Svoc :** | **5.70** | | | | | |
| | | | **Total Concentration:** | **5.70** | | | | | |
| **Client ID : MW179D1-20250908** | | | | | | | | | |
| Q3095-04 | MW179D1-20250908 | WATER | 1,4-Dioxane | 0.220 | | 0.07 | 0.2 | 0.2 | ug/L |
| | | | **Total Svoc :** | **0.22** | | | | | |
| | | | **Total Concentration:** | **0.22** | | | | | |
| **Client ID : MW203D2-20250909** | | | | | | | | | |
| Q3095-05 | MW203D2-20250909 | WATER | 1,4-Dioxane | 0.850 | M | 0.07 | 0.2 | 0.2 | ug/L |
| | | | **Total Svoc :** | **0.85** | | | | | |
| | | | **Total Concentration:** | **0.85** | | | | | |
| **Client ID : MW203D1-20250909** | | | | | | | | | |
| Q3095-08 | MW203D1-20250909 | WATER | 1,4-Dioxane | 0.950 | | 0.07 | 0.2 | 0.2 | ug/L |
| | | | **Total Svoc :** | **0.95** | | | | | |
| | | | **Total Concentration:** | **0.95** | | | | | |
| **Client ID : MW179D2-20250909** | | | | | | | | | |
| Q3095-09 | MW179D2-20250909 | WATER | 1,4-Dioxane | 0.620 | | 0.07 | 0.21 | 0.21 | ug/L |
| | | | **Total Svoc :** | **0.62** | | | | | |
| | | | **Total Concentration:** | **0.62** | | | | | |
| **Client ID : MW201D1-20250909** | | | | | | | | | |
| Q3095-10 | MW201D1-20250909 | WATER | 1,4-Dioxane | 0.070 | J | 0.07 | 0.2 | 0.2 | ug/L |
| | | | **Total Svoc :** | **0.07** | | | | | |

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Fax : 908 789 8922

# Hit Summary Sheet
**SW-846**

**SDG No.:** Q3095

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

| Sample ID | Client ID | | Parameter | Concentration | C | MDL | LOD | RDL | Units |
|---|---|---|---|---|---|---|---|---|---|
| | | | **Total Concentration:** | | | **0.07** | | | |
| **Client ID :** | **RE122D1-20250909** | | | | | | | | |
| Q3095-11 | RE122D1-20250909 | WATER | 1,4-Dioxane | 2.800 | | 0.07 | 0.2 | 0.2 | ug/L |
| | | | **Total Svoc :** | | | **2.80** | | | |
| | | | **Total Concentration:** | | | **2.80** | | | |
| **Client ID :** | **MW178I1-20250909** | | | | | | | | |
| Q3095-13 | MW178I1-20250909 | WATER | 1,4-Dioxane | 0.660 | | 0.07 | 0.2 | 0.2 | ug/L |
| | | | **Total Svoc :** | | | **0.66** | | | |
| | | | **Total Concentration:** | | | **0.66** | | | |
| **Client ID :** | **RE123D1-20250909** | | | | | | | | |
| Q3095-14 | RE123D1-20250909 | WATER | 1,4-Dioxane | 0.740 | | 0.07 | 0.21 | 0.21 | ug/L |
| | | | **Total Svoc :** | | | **0.74** | | | |
| | | | **Total Concentration:** | | | **0.74** | | | |
| **Client ID :** | **MW305D-20250909** | | | | | | | | |
| Q3095-16 | MW305D-20250909 | WATER | 1,4-Dioxane | 0.530 | | 0.07 | 0.2 | 0.2 | ug/L |
| | | | **Total Svoc :** | | | **0.53** | | | |
| | | | **Total Concentration:** | | | **0.53** | | | |
| **Client ID :** | **DUP01-20250909** | | | | | | | | |
| Q3095-17 | DUP01-20250909 | WATER | 1,4-Dioxane | 0.520 | | 0.07 | 0.2 | 0.2 | ug/L |
| | | | **Total Svoc :** | | | **0.52** | | | |
| | | | **Total Concentration:** | | | **0.52** | | | |
| **Client ID :** | **RE126D2-20250909** | | | | | | | | |
| Q3095-18 | RE126D2-20250909 | WATER | 1,4-Dioxane | 2.600 | | 0.07 | 0.2 | 0.2 | ug/L |
| | | | **Total Svoc :** | | | **2.60** | | | |
| | | | **Total Concentration:** | | | **2.60** | | | |
| **Client ID :** | **RE126D3-20250909** | | | | | | | | |
| Q3095-19 | RE126D3-20250909 | WATER | 1,4-Dioxane | 0.430 | | 0.07 | 0.2 | 0.2 | ug/L |
| | | | **Total Svoc :** | | | **0.43** | | | |
| | | | **Total Concentration:** | | | **0.43** | | | |
| **Client ID :** | **MW178S-20250910** | | | | | | | | |
| Q3095-20 | MW178S-20250910 | WATER | 1,4-Dioxane | 0.110 | J | 0.07 | 0.2 | 0.2 | ug/L |
| | | | **Total Svoc :** | | | **0.11** | | | |
| | | | **Total Concentration:** | | | **0.11** | | | |
| **Client ID :** | **RE126D1-20250910** | | | | | | | | |
| Q3095-21 | RE126D1-20250910 | WATER | 1,4-Dioxane | 2.200 | | 0.07 | 0.2 | 0.2 | ug/L |
| | | | **Total Svoc :** | | | **2.20** | | | |

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# Hit Summary Sheet
**SW-846**

**SDG No.:** Q3095

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

| Sample ID | Client ID | | Parameter | Concentration | C | MDL | LOD | RDL | Units |
|---|---|---|---|---|---|---|---|---|---|
| | | | **Total Concentration:** | | | **2.20** | | | |
| **Client ID :** | **RE104D2-20250910** | | | | | | | | |
| Q3095-23 | RE104D2-20250910 | WATER | 1,4-Dioxane | 2.100 | | 0.07 | 0.2 | 0.2 | ug/L |
| | | | **Total Svoc :** | | | **2.10** | | | |
| | | | **Total Concentration:** | | | **2.10** | | | |
| **Client ID :** | **MW178I-20250910** | | | | | | | | |
| Q3095-24 | MW178I-20250910 | WATER | 1,4-Dioxane | 0.120 | J | 0.07 | 0.2 | 0.2 | ug/L |
| | | | **Total Svoc :** | | | **0.12** | | | |
| | | | **Total Concentration:** | | | **0.12** | | | |
| **Client ID :** | **DUP02-20250910** | | | | | | | | |
| Q3095-25 | DUP02-20250910 | WATER | 1,4-Dioxane | 3.400 | | 0.07 | 0.21 | 0.21 | ug/L |
| | | | **Total Svoc :** | | | **3.40** | | | |
| | | | **Total Concentration:** | | | **3.40** | | | |
| **Client ID :** | **DUP03-20250910** | | | | | | | | |
| Q3095-26 | DUP03-20250910 | WATER | 1,4-Dioxane | 0.110 | J | 0.07 | 0.2 | 0.2 | ug/L |
| | | | **Total Svoc :** | | | **0.11** | | | |
| | | | **Total Concentration:** | | | **0.11** | | | |
| **Client ID :** | **RE117D1-20250910** | | | | | | | | |
| Q3095-27 | RE117D1-20250910 | WATER | 1,4-Dioxane | 0.740 | | 0.07 | 0.2 | 0.2 | ug/L |
| | | | **Total Svoc :** | | | **0.74** | | | |
| | | | **Total Concentration:** | | | **0.74** | | | |
| **Client ID :** | **RE122D2-20250910** | | | | | | | | |
| Q3095-29 | RE122D2-20250910 | WATER | 1,4-Dioxane | 3.800 | | 0.07 | 0.2 | 0.2 | ug/L |
| | | | **Total Svoc :** | | | **3.80** | | | |
| | | | **Total Concentration:** | | | **3.80** | | | |
| **Client ID :** | **RE104D1-20250910** | | | | | | | | |
| Q3095-30 | RE104D1-20250910 | WATER | 1,4-Dioxane | 3.000 | | 0.07 | 0.2 | 0.2 | ug/L |
| | | | **Total Svoc :** | | | **3.00** | | | |
| | | | **Total Concentration:** | | | **3.00** | | | |
| **Client ID :** | **TT180D-20250911** | | | | | | | | |
| Q3095-31 | TT180D-20250911 | WATER | 1,4-Dioxane | 0.110 | J | 0.07 | 0.2 | 0.2 | ug/L |
| | | | **Total Svoc :** | | | **0.11** | | | |
| | | | **Total Concentration:** | | | **0.11** | | | |

# QC SUMMARY

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
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# Surrogate Summary

**SW-846**

**SDG No.:** Q3095

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

**Analytical Method:** 8270-Modified

| Lab Sample ID | Client ID | Parameter | Spike (PPM) | Result (PPM) | Recovery (%) | Qual | Limits (%) Low | High |
|---|---|---|---|---|---|---|---|---|
| PB169692BL | PB169692BL | 2-Methylnaphthalene-d10 | 0.4 | 0.31 | 79 | | 30 | 150 |
| | | Fluoranthene-d10 | 0.4 | 0.30 | 75 | | 30 | 150 |
| | | Nitrobenzene-d5 | 0.4 | 0.39 | 97 | | 55 | 111 |
| | | 2-Fluorobiphenyl | 0.4 | 0.37 | 92 | | 53 | 106 |
| | | Terphenyl-d14 | 0.4 | 0.34 | 84 | | 58 | 132 |
| PB169692BS | PB169692BS | 2-Methylnaphthalene-d10 | 0.4 | 0.30 | 76 | | 30 | 150 |
| | | Fluoranthene-d10 | 0.4 | 0.30 | 75 | | 30 | 150 |
| | | Nitrobenzene-d5 | 0.4 | 0.35 | 88 | | 55 | 111 |
| | | 2-Fluorobiphenyl | 0.4 | 0.36 | 90 | | 53 | 106 |
| | | Terphenyl-d14 | 0.4 | 0.31 | 78 | | 58 | 132 |
| Q3095-01 | MW305I-20250908 | 2-Methylnaphthalene-d10 | 0.4 | 0.29 | 72 | | 30 | 150 |
| | | Fluoranthene-d10 | 0.4 | 0.35 | 88 | | 30 | 150 |
| | | Nitrobenzene-d5 | 0.4 | 0.32 | 80 | | 55 | 111 |
| | | 2-Fluorobiphenyl | 0.4 | 0.33 | 83 | | 53 | 106 |
| | | Terphenyl-d14 | 0.4 | 0.42 | 105 | | 58 | 132 |
| Q3095-02 | MW179D-20250908 | 2-Methylnaphthalene-d10 | 0.4 | 0.32 | 80 | | 30 | 150 |
| | | Fluoranthene-d10 | 0.4 | 0.35 | 88 | | 30 | 150 |
| | | Nitrobenzene-d5 | 0.4 | 0.35 | 86 | | 55 | 111 |
| | | 2-Fluorobiphenyl | 0.4 | 0.37 | 91 | | 53 | 106 |
| | | Terphenyl-d14 | 0.4 | 0.42 | 105 | | 58 | 132 |
| Q3095-03 | MW201D-20250908 | 2-Methylnaphthalene-d10 | 0.4 | 0.30 | 74 | | 30 | 150 |
| | | Fluoranthene-d10 | 0.4 | 0.36 | 91 | | 30 | 150 |
| | | Nitrobenzene-d5 | 0.4 | 0.33 | 82 | | 55 | 111 |
| | | 2-Fluorobiphenyl | 0.4 | 0.33 | 83 | | 53 | 106 |
| | | Terphenyl-d14 | 0.4 | 0.39 | 98 | | 58 | 132 |
| Q3095-03DL | MW201D-20250908DL | 2-Methylnaphthalene-d10 | 0.4 | 0.29 | 73 | | 30 | 150 |
| | | Fluoranthene-d10 | 0.4 | 0.33 | 81 | | 30 | 150 |
| | | Nitrobenzene-d5 | 0.4 | 0.33 | 82 | | 55 | 111 |
| | | 2-Fluorobiphenyl | 0.4 | 0.32 | 81 | | 53 | 106 |
| | | Terphenyl-d14 | 0.4 | 0.41 | 101 | | 58 | 132 |
| Q3095-04 | MW179D1-20250908 | 2-Methylnaphthalene-d10 | 0.4 | 0.32 | 79 | | 30 | 150 |
| | | Fluoranthene-d10 | 0.4 | 0.38 | 95 | | 30 | 150 |
| | | Nitrobenzene-d5 | 0.4 | 0.35 | 88 | | 55 | 111 |
| | | 2-Fluorobiphenyl | 0.4 | 0.36 | 90 | | 53 | 106 |
| | | Terphenyl-d14 | 0.4 | 0.43 | 107 | | 58 | 132 |
| Q3095-05 | MW203D2-20250909 | 2-Methylnaphthalene-d10 | 0.4 | 0.29 | 72 | | 30 | 150 |
| | | Fluoranthene-d10 | 0.4 | 0.34 | 84 | | 30 | 150 |
| | | Nitrobenzene-d5 | 0.4 | 0.30 | 76 | | 55 | 111 |
| | | 2-Fluorobiphenyl | 0.4 | 0.31 | 77 | | 53 | 106 |
| | | Terphenyl-d14 | 0.4 | 0.50 | 124 | | 58 | 132 |
| Q3095-06MS | MW203D2-20250909MS | 2-Methylnaphthalene-d10 | 0.4 | 0.29 | 72 | | 30 | 150 |
| | | Fluoranthene-d10 | 0.4 | 0.33 | 83 | | 30 | 150 |
| | | Nitrobenzene-d5 | 0.4 | 0.30 | 75 | | 55 | 111 |
| | | 2-Fluorobiphenyl | 0.4 | 0.32 | 79 | | 53 | 106 |
| | | Terphenyl-d14 | 0.4 | 0.40 | 99 | | 58 | 132 |
| Q3095-07MSD | MW203D2-20250909MSD | 2-Methylnaphthalene-d10 | 0.4 | 0.30 | 74 | | 30 | 150 |
| | | Fluoranthene-d10 | 0.4 | 0.33 | 83 | | 30 | 150 |
| | | Nitrobenzene-d5 | 0.4 | 0.30 | 75 | | 55 | 111 |
| | | 2-Fluorobiphenyl | 0.4 | 0.32 | 79 | | 53 | 106 |
| | | Terphenyl-d14 | 0.4 | 0.40 | 99 | | 58 | 132 |
| Q3095-08 | MW203D1-20250909 | 2-Methylnaphthalene-d10 | 0.4 | 0.30 | 75 | | 30 | 150 |

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# Surrogate Summary

**SW-846**

**SDG No.:** Q3095

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

**Analytical Method:** 8270-Modified

| Lab Sample ID | Client ID | Parameter | Spike (PPM) | Result (PPM) | Recovery (%) | Qual | Limits (%) Low | High |
|---|---|---|---|---|---|---|---|---|
| Q3095-08 | MW203D1-20250909 | Fluoranthene-d10 | 0.4 | 0.37 | 92 | | 30 | 150 |
| | | Nitrobenzene-d5 | 0.4 | 0.32 | 81 | | 55 | 111 |
| | | 2-Fluorobiphenyl | 0.4 | 0.34 | 84 | | 53 | 106 |
| | | Terphenyl-d14 | 0.4 | 0.47 | 117 | | 58 | 132 |
| Q3095-09 | MW179D2-20250909 | 2-Methylnaphthalene-d10 | 0.4 | 0.30 | 74 | | 30 | 150 |
| | | Fluoranthene-d10 | 0.4 | 0.35 | 87 | | 30 | 150 |
| | | Nitrobenzene-d5 | 0.4 | 0.32 | 80 | | 55 | 111 |
| | | 2-Fluorobiphenyl | 0.4 | 0.32 | 81 | | 53 | 106 |
| | | Terphenyl-d14 | 0.4 | 0.40 | 99 | | 58 | 132 |
| Q3095-10 | MW201D1-20250909 | 2-Methylnaphthalene-d10 | 0.4 | 0.29 | 72 | | 30 | 150 |
| | | Fluoranthene-d10 | 0.4 | 0.37 | 94 | | 30 | 150 |
| | | Nitrobenzene-d5 | 0.4 | 0.31 | 77 | | 55 | 111 |
| | | 2-Fluorobiphenyl | 0.4 | 0.31 | 78 | | 53 | 106 |
| | | Terphenyl-d14 | 0.4 | 0.37 | 92 | | 58 | 132 |
| Q3095-11 | RE122D1-20250909 | 2-Methylnaphthalene-d10 | 0.4 | 0.34 | 84 | | 30 | 150 |
| | | Fluoranthene-d10 | 0.4 | 0.37 | 93 | | 30 | 150 |
| | | Nitrobenzene-d5 | 0.4 | 0.36 | 90 | | 55 | 111 |
| | | 2-Fluorobiphenyl | 0.4 | 0.35 | 87 | | 53 | 106 |
| | | Terphenyl-d14 | 0.4 | 0.46 | 116 | | 58 | 132 |
| Q3095-12 | MW202D-20250909 | 2-Methylnaphthalene-d10 | 0.4 | 0.31 | 77 | | 30 | 150 |
| | | Fluoranthene-d10 | 0.4 | 0.38 | 94 | | 30 | 150 |
| | | Nitrobenzene-d5 | 0.4 | 0.34 | 84 | | 55 | 111 |
| | | 2-Fluorobiphenyl | 0.4 | 0.35 | 87 | | 53 | 106 |
| | | Terphenyl-d14 | 0.4 | 0.40 | 100 | | 58 | 132 |
| Q3095-13 | MW178I1-20250909 | 2-Methylnaphthalene-d10 | 0.4 | 0.29 | 73 | | 30 | 150 |
| | | Fluoranthene-d10 | 0.4 | 0.36 | 91 | | 30 | 150 |
| | | Nitrobenzene-d5 | 0.4 | 0.31 | 78 | | 55 | 111 |
| | | 2-Fluorobiphenyl | 0.4 | 0.32 | 80 | | 53 | 106 |
| | | Terphenyl-d14 | 0.4 | 0.38 | 95 | | 58 | 132 |
| Q3095-14 | RE123D1-20250909 | 2-Methylnaphthalene-d10 | 0.4 | 0.30 | 75 | | 30 | 150 |
| | | Fluoranthene-d10 | 0.4 | 0.37 | 93 | | 30 | 150 |
| | | Nitrobenzene-d5 | 0.4 | 0.32 | 79 | | 55 | 111 |
| | | 2-Fluorobiphenyl | 0.4 | 0.31 | 79 | | 53 | 106 |
| | | Terphenyl-d14 | 0.4 | 0.37 | 93 | | 58 | 132 |
| Q3095-15 | RE123D3-20250909 | 2-Methylnaphthalene-d10 | 0.4 | 0.22 | 54 | | 30 | 150 |
| | | Fluoranthene-d10 | 0.4 | 0.25 | 63 | | 30 | 150 |
| | | Nitrobenzene-d5 | 0.4 | 0.23 | 58 | | 55 | 111 |
| | | 2-Fluorobiphenyl | 0.4 | 0.23 | 58 | | 53 | 106 |
| | | Terphenyl-d14 | 0.4 | 0.28 | 70 | | 58 | 132 |
| Q3095-16 | MW305D-20250909 | 2-Methylnaphthalene-d10 | 0.4 | 0.29 | 72 | | 30 | 150 |
| | | Fluoranthene-d10 | 0.4 | 0.38 | 96 | | 30 | 150 |
| | | Nitrobenzene-d5 | 0.4 | 0.31 | 79 | | 55 | 111 |
| | | 2-Fluorobiphenyl | 0.4 | 0.31 | 77 | | 53 | 106 |
| | | Terphenyl-d14 | 0.4 | 0.39 | 97 | | 58 | 132 |
| Q3095-17 | DUP01-20250909 | 2-Methylnaphthalene-d10 | 0.4 | 0.30 | 75 | | 30 | 150 |
| | | Fluoranthene-d10 | 0.4 | 0.37 | 92 | | 30 | 150 |
| | | Nitrobenzene-d5 | 0.4 | 0.33 | 81 | | 55 | 111 |
| | | 2-Fluorobiphenyl | 0.4 | 0.33 | 83 | | 53 | 106 |
| | | Terphenyl-d14 | 0.4 | 0.43 | 106 | | 58 | 132 |
| Q3095-18 | RE126D2-20250909 | 2-Methylnaphthalene-d10 | 0.4 | 0.29 | 72 | | 30 | 150 |
| | | Fluoranthene-d10 | 0.4 | 0.35 | 88 | | 30 | 150 |

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# Surrogate Summary

**SW-846**

**SDG No.:** Q3095

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

**Analytical Method:** 8270-Modified

| Lab Sample ID | Client ID | Parameter | Spike (PPM) | Result (PPM) | Recovery (%) | Qual | Limits (%) Low | Limits (%) High |
|---|---|---|---|---|---|---|---|---|
| Q3095-18 | RE126D2-20250909 | Nitrobenzene-d5 | 0.4 | 0.31 | 76 | | 55 | 111 |
| | | 2-Fluorobiphenyl | 0.4 | 0.32 | 79 | | 53 | 106 |
| | | Terphenyl-d14 | 0.4 | 0.43 | 108 | | 58 | 132 |
| Q3095-19 | RE126D3-20250909 | 2-Methylnaphthalene-d10 | 0.4 | 0.34 | 85 | | 30 | 150 |
| | | Fluoranthene-d10 | 0.4 | 0.41 | 103 | | 30 | 150 |
| | | Nitrobenzene-d5 | 0.4 | 0.37 | 93 | | 55 | 111 |
| | | 2-Fluorobiphenyl | 0.4 | 0.38 | 95 | | 53 | 106 |
| | | Terphenyl-d14 | 0.4 | 0.48 | 120 | | 58 | 132 |
| Q3095-20 | MW178S-20250910 | 2-Methylnaphthalene-d10 | 0.4 | 0.26 | 64 | | 30 | 150 |
| | | Fluoranthene-d10 | 0.4 | 0.30 | 76 | | 30 | 150 |
| | | Nitrobenzene-d5 | 0.4 | 0.28 | 71 | | 55 | 111 |
| | | 2-Fluorobiphenyl | 0.4 | 0.28 | 71 | | 53 | 106 |
| | | Terphenyl-d14 | 0.4 | 0.29 | 74 | | 58 | 132 |

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# Surrogate Summary

**SW-846**

**SDG No.:** Q3095

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

**Analytical Method:** 8270-Modified

| Lab Sample ID | Client ID | Parameter | Spike (PPM) | Result (PPM) | Recovery (%) | Qual | Limits (%) Low | High |
|---|---|---|---|---|---|---|---|---|
| PB169693BL | PB169693BL | 2-Methylnaphthalene-d10 | 0.4 | 0.33 | 82 | | 30 | 150 |
| | | Fluoranthene-d10 | 0.4 | 0.32 | 80 | | 30 | 150 |
| | | Nitrobenzene-d5 | 0.4 | 0.38 | 96 | | 55 | 111 |
| | | 2-Fluorobiphenyl | 0.4 | 0.40 | 99 | | 53 | 106 |
| | | Terphenyl-d14 | 0.4 | 0.36 | 90 | | 58 | 132 |
| PB169693BS | PB169693BS | 2-Methylnaphthalene-d10 | 0.4 | 0.31 | 77 | | 30 | 150 |
| | | Fluoranthene-d10 | 0.4 | 0.29 | 73 | | 30 | 150 |
| | | Nitrobenzene-d5 | 0.4 | 0.36 | 90 | | 55 | 111 |
| | | 2-Fluorobiphenyl | 0.4 | 0.37 | 92 | | 53 | 106 |
| | | Terphenyl-d14 | 0.4 | 0.32 | 81 | | 58 | 132 |
| Q3095-21 | RE126D1-20250910 | 2-Methylnaphthalene-d10 | 0.4 | 0.28 | 70 | | 30 | 150 |
| | | Fluoranthene-d10 | 0.4 | 0.35 | 86 | | 30 | 150 |
| | | Nitrobenzene-d5 | 0.4 | 0.32 | 79 | | 55 | 111 |
| | | 2-Fluorobiphenyl | 0.4 | 0.30 | 74 | | 53 | 106 |
| | | Terphenyl-d14 | 0.4 | 0.36 | 90 | | 58 | 132 |
| Q3095-22 | MW202D1-20250910 | 2-Methylnaphthalene-d10 | 0.4 | 0.34 | 86 | | 30 | 150 |
| | | Fluoranthene-d10 | 0.4 | 0.36 | 90 | | 30 | 150 |
| | | Nitrobenzene-d5 | 0.4 | 0.37 | 93 | | 55 | 111 |
| | | 2-Fluorobiphenyl | 0.4 | 0.38 | 94 | | 53 | 106 |
| | | Terphenyl-d14 | 0.4 | 0.39 | 98 | | 58 | 132 |
| Q3095-23 | RE104D2-20250910 | 2-Methylnaphthalene-d10 | 0.4 | 0.32 | 81 | | 30 | 150 |
| | | Fluoranthene-d10 | 0.4 | 0.38 | 95 | | 30 | 150 |
| | | Nitrobenzene-d5 | 0.4 | 0.35 | 88 | | 55 | 111 |
| | | 2-Fluorobiphenyl | 0.4 | 0.35 | 86 | | 53 | 106 |
| | | Terphenyl-d14 | 0.4 | 0.40 | 99 | | 58 | 132 |
| Q3095-24 | MW178I-20250910 | 2-Methylnaphthalene-d10 | 0.4 | 0.28 | 69 | | 30 | 150 |
| | | Fluoranthene-d10 | 0.4 | 0.33 | 81 | | 30 | 150 |
| | | Nitrobenzene-d5 | 0.4 | 0.31 | 76 | | 55 | 111 |
| | | 2-Fluorobiphenyl | 0.4 | 0.31 | 77 | | 53 | 106 |
| | | Terphenyl-d14 | 0.4 | 0.39 | 97 | | 58 | 132 |
| Q3095-25 | DUP02-20250910 | 2-Methylnaphthalene-d10 | 0.4 | 0.30 | 75 | | 30 | 150 |
| | | Fluoranthene-d10 | 0.4 | 0.34 | 84 | | 30 | 150 |
| | | Nitrobenzene-d5 | 0.4 | 0.33 | 83 | | 55 | 111 |
| | | 2-Fluorobiphenyl | 0.4 | 0.33 | 83 | | 53 | 106 |
| | | Terphenyl-d14 | 0.4 | 0.43 | 108 | | 58 | 132 |
| Q3095-26 | DUP03-20250910 | 2-Methylnaphthalene-d10 | 0.4 | 0.32 | 80 | | 30 | 150 |
| | | Fluoranthene-d10 | 0.4 | 0.35 | 88 | | 30 | 150 |
| | | Nitrobenzene-d5 | 0.4 | 0.35 | 88 | | 55 | 111 |
| | | 2-Fluorobiphenyl | 0.4 | 0.37 | 92 | | 53 | 106 |
| | | Terphenyl-d14 | 0.4 | 0.39 | 96 | | 58 | 132 |
| Q3095-27 | RE117D1-20250910 | 2-Methylnaphthalene-d10 | 0.4 | 0.35 | 87 | | 30 | 150 |
| | | Fluoranthene-d10 | 0.4 | 0.39 | 98 | | 30 | 150 |
| | | Nitrobenzene-d5 | 0.4 | 0.41 | 103 | | 55 | 111 |
| | | 2-Fluorobiphenyl | 0.4 | 0.40 | 101 | | 53 | 106 |
| | | Terphenyl-d14 | 0.4 | 0.40 | 100 | | 58 | 132 |
| Q3095-28 | RE104D3-20250910 | 2-Methylnaphthalene-d10 | 0.4 | 0.32 | 80 | | 30 | 150 |
| | | Fluoranthene-d10 | 0.4 | 0.36 | 90 | | 30 | 150 |
| | | Nitrobenzene-d5 | 0.4 | 0.38 | 95 | | 55 | 111 |
| | | 2-Fluorobiphenyl | 0.4 | 0.38 | 96 | | 53 | 106 |
| | | Terphenyl-d14 | 0.4 | 0.39 | 98 | | 58 | 132 |
| Q3095-29 | RE122D2-20250910 | 2-Methylnaphthalene-d10 | 0.4 | 0.35 | 87 | | 30 | 150 |

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# Surrogate Summary

**SW-846**

**SDG No.:** Q3095

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

**Analytical Method:** 8270-Modified

| Lab Sample ID | Client ID | Parameter | Spike (PPM) | Result (PPM) | Recovery (%) | Qual | Limits (%) Low | Limits (%) High |
|---|---|---|---|---|---|---|---|---|
| Q3095-29 | RE122D2-20250910 | Fluoranthene-d10 | 0.4 | 0.36 | 90 | | 30 | 150 |
| | | Nitrobenzene-d5 | 0.4 | 0.39 | 98 | | 55 | 111 |
| | | 2-Fluorobiphenyl | 0.4 | 0.41 | 101 | | 53 | 106 |
| | | Terphenyl-d14 | 0.4 | 0.39 | 98 | | 58 | 132 |
| Q3095-30 | RE104D1-20250910 | 2-Methylnaphthalene-d10 | 0.4 | 0.33 | 83 | | 30 | 150 |
| | | Fluoranthene-d10 | 0.4 | 0.37 | 91 | | 30 | 150 |
| | | Nitrobenzene-d5 | 0.4 | 0.37 | 92 | | 55 | 111 |
| | | 2-Fluorobiphenyl | 0.4 | 0.37 | 93 | | 53 | 106 |
| | | Terphenyl-d14 | 0.4 | 0.38 | 95 | | 58 | 132 |
| Q3095-31 | TT180D-20250911 | 2-Methylnaphthalene-d10 | 0.4 | 0.34 | 86 | | 30 | 150 |
| | | Fluoranthene-d10 | 0.4 | 0.36 | 91 | | 30 | 150 |
| | | Nitrobenzene-d5 | 0.4 | 0.39 | 97 | | 55 | 111 |
| | | 2-Fluorobiphenyl | 0.4 | 0.39 | 97 | | 53 | 106 |
| | | Terphenyl-d14 | 0.4 | 0.39 | 97 | | 58 | 132 |
| Q3095-32 | RE122D3-20250911 | 2-Methylnaphthalene-d10 | 0.4 | 0.35 | 86 | | 30 | 150 |
| | | Fluoranthene-d10 | 0.4 | 0.38 | 96 | | 30 | 150 |
| | | Nitrobenzene-d5 | 0.4 | 0.39 | 98 | | 55 | 111 |
| | | 2-Fluorobiphenyl | 0.4 | 0.39 | 98 | | 53 | 106 |
| | | Terphenyl-d14 | 0.4 | 0.41 | 103 | | 58 | 132 |
| Q3097-02MS | RE103D2-20250911MS | 2-Methylnaphthalene-d10 | 0.4 | 0.28 | 70 | | 30 | 150 |
| | | Fluoranthene-d10 | 0.4 | 0.35 | 87 | | 30 | 150 |
| | | Nitrobenzene-d5 | 0.4 | 0.33 | 81 | | 55 | 111 |
| | | 2-Fluorobiphenyl | 0.4 | 0.30 | 76 | | 53 | 106 |
| | | Terphenyl-d14 | 0.4 | 0.43 | 107 | | 58 | 132 |
| Q3097-03MSD | RE103D2-20250911MSD | 2-Methylnaphthalene-d10 | 0.4 | 0.28 | 70 | | 30 | 150 |
| | | Fluoranthene-d10 | 0.4 | 0.36 | 90 | | 30 | 150 |
| | | Nitrobenzene-d5 | 0.4 | 0.33 | 82 | | 55 | 111 |
| | | 2-Fluorobiphenyl | 0.4 | 0.31 | 76 | | 53 | 106 |
| | | Terphenyl-d14 | 0.4 | 0.41 | 101 | | 58 | 132 |

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**Matrix Spike/Matrix Spike Duplicate Summary**

**SW-846**

| | | | |
|---|---|---|---|
| **SDG No.:** | **Q3095** | **Analytical Method:** | **SW8270-Modified** |
| **Client:** | **AECOM Technical Services, Inc.** | **DataFile:** | **BN037743.D** |

| Parameter | Spike | Sample Result | Result | Units | Rec | Rec Qual | RPD | RPD Qual | Limits Low | Limits High | RPD |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **Lab Sample ID: Q3095-06MS** | | **Client Sample ID: MW203D2-20250909MS** | | | | | | | | | |
| 1,4-Dioxane | 0.4 | 0.85 | 0.97 | ug/L | 30 | * | | | 70 | 130 | |

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**Matrix Spike/Matrix Spike Duplicate Summary**

**SW-846**

| | | | |
|---|---|---|---|
| **SDG No.:** | **Q3095** | **Analytical Method:** | **SW8270-Modified** |
| **Client:** | **AECOM Technical Services, Inc.** | **DataFile:** | **BN037744.D** |

| Parameter | Spike | Sample Result | Result | Units | Rec | Rec Qual | RPD | RPD Qual | Limits Low | Limits High | RPD |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **Lab Sample ID: Q3095-07MSD** | | **Client Sample ID: MW203D2-20250909MSD** | | | | | | | | | |
| 1,4-Dioxane | 0.4 | 0.85 | 0.96 | ug/L | 27 | * | 11 | | 70 | 130 | 20 |

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**Matrix Spike/Matrix Spike Duplicate Summary**

**SW-846**

| | | | |
|---|---|---|---|
| **SDG No.:** | **Q3095** | **Analytical Method:** | **SW8270-Modified** |
| **Client:** | **AECOM Technical Services, Inc.** | **DataFile:** | **BN037772.D** |

| Parameter | Spike | Sample Result | Result | Units | Rec | Rec Qual | RPD | RPD Qual | Limits Low | Limits High | RPD |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **Lab Sample ID: Q3097-02MS** | | **Client Sample ID: RE103D2-20250911MS** | | | | | | | | | |
| 1,4-Dioxane | 0.4 | 0.37 | 0.72 | ug/L | 88 | | | | 70 | 130 | |

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**Matrix Spike/Matrix Spike Duplicate Summary**

**SW-846**

| | | | |
|---|---|---|---|
| **SDG No.:** | **Q3095** | **Analytical Method:** | **SW8270-Modified** |
| **Client:** | **AECOM Technical Services, Inc.** | **DataFile:** | **BN037773.D** |

| Parameter | Spike | Sample Result | Result | Units | Rec | Rec Qual | RPD | RPD Qual | Limits Low | Limits High | RPD |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **Lab Sample ID:** | **Q3097-03MSD** | **Client Sample ID:** | **RE103D2-20250911MSD** | | | | | | | | |
| 1,4-Dioxane | 0.4 | 0.37 | 0.73 | ug/L | 90 | | 2 | | 70 | 130 | 20 |

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# Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

**SW-846**

**SDG No.:** Q3095 **Analytical Method:** 8270-Modified

**Client:** AECOM Technical Services, Inc. **DataFile:** BN037791.D

| Lab Sample ID | Parameter | Spike | Result | Unit | Rec | RPD | Qual | RPD Qual | Limits Low | Limits High | RPD |
|---|---|---|---|---|---|---|---|---|---|---|---|
| PB169692BS | 1,4-Dioxane | 0.4 | 0.30 | ug/L | 75 | | | | 70 | 130 | |

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# Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

**SW-846**

**SDG No.:** Q3095 **Analytical Method:** 8270-Modified

**Client:** AECOM Technical Services, Inc. **DataFile:** BN037792.D

| Lab Sample ID | Parameter | Spike | Result | Unit | Rec | RPD | Qual | RPD Qual | Limits Low | Limits High | RPD |
|---|---|---|---|---|---|---|---|---|---|---|---|
| PB169693BS | 1,4-Dioxane | 0.4 | 0.31 | ug/L | 78 | | | | 70 | 130 | |

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4B

SEMIVOLATILE METHOD BLANK SUMMARY

Client ID: PB169692BL

Lab Name: Alliance | Contract: AECO15

Lab Code: ACE | SDG NO.: Q3095

Lab File ID: BN037796.D | Lab Sample ID: PB169692BL

Instrument ID: BNA_N | Date Extracted: 09/15/2025

Matrix: (soil/water) Water | Date Analyzed: 09/19/2025

Level: (low/med) LOW | Time Analyzed: 03:24

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

| EPA SAMPLE NO. | LAB SAMPLE ID | LAB FILE ID | DATE ANALYZED |
|---|---|---|---|
| PB169692BS | PB169692BS | BN037791.D | 09/18/2025 |
| MW305I-20250908 | Q3095-01 | BN037747.D | 09/17/2025 |
| MW179D-20250908 | Q3095-02 | BN037748.D | 09/17/2025 |
| MW203D2-20250909 | Q3095-05 | BN037742.D | 09/17/2025 |
| MW203D2-20250909MS | Q3095-06MS | BN037743.D | 09/17/2025 |
| MW201D-20250908 | Q3095-03 | BN037749.D | 09/17/2025 |
| MW179D1-20250908 | Q3095-04 | BN037750.D | 09/17/2025 |
| MW203D2-20250909MSD | Q3095-07MSD | BN037744.D | 09/17/2025 |
| MW203D1-20250909 | Q3095-08 | BN037751.D | 09/17/2025 |
| MW179D2-20250909 | Q3095-09 | BN037752.D | 09/17/2025 |
| MW201D1-20250909 | Q3095-10 | BN037753.D | 09/17/2025 |
| RE122D1-20250909 | Q3095-11 | BN037754.D | 09/17/2025 |
| MW178I1-20250909 | Q3095-13 | BN037755.D | 09/17/2025 |
| MW202D-20250909 | Q3095-12 | BN037761.D | 09/18/2025 |
| RE123D1-20250909 | Q3095-14 | BN037762.D | 09/18/2025 |
| RE123D3-20250909 | Q3095-15 | BN037763.D | 09/18/2025 |
| MW305D-20250909 | Q3095-16 | BN037764.D | 09/18/2025 |
| DUP01-20250909 | Q3095-17 | BN037765.D | 09/18/2025 |
| RE126D2-20250909 | Q3095-18 | BN037766.D | 09/18/2025 |
| RE126D3-20250909 | Q3095-19 | BN037767.D | 09/18/2025 |
| MW178S-20250910 | Q3095-20 | BN037768.D | 09/18/2025 |

COMMENTS:

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4B

SEMIVOLATILE METHOD BLANK SUMMARY

Client ID: PB169693BL

Lab Name: Alliance | Contract: AECO15

Lab Code: ACE | SDG NO.: Q3095

Lab File ID: BN037777.D | Lab Sample ID: PB169693BL

Instrument ID: BNA_N | Date Extracted: 09/15/2025

Matrix: (soil/water) Water | Date Analyzed: 09/18/2025

Level: (low/med) LOW | Time Analyzed: 15:10

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

| EPA SAMPLE NO. | LAB SAMPLE ID | LAB FILE ID | DATE ANALYZED |
|---|---|---|---|
| RE126D1-20250910 | Q3095-21 | BN037783.D | 09/18/2025 |
| MW202D1-20250910 | Q3095-22 | BN037784.D | 09/18/2025 |
| RE104D2-20250910 | Q3095-23 | BN037785.D | 09/18/2025 |
| MW178I-20250910 | Q3095-24 | BN037786.D | 09/18/2025 |
| PB169693BS | PB169693BS | BN037792.D | 09/19/2025 |
| DUP02-20250910 | Q3095-25 | BN037787.D | 09/18/2025 |
| DUP03-20250910 | Q3095-26 | BN037788.D | 09/18/2025 |
| RE122D2-20250910 | Q3095-29 | BN037797.D | 09/19/2025 |
| RE104D1-20250910 | Q3095-30 | BN037798.D | 09/19/2025 |
| TT180D-20250911 | Q3095-31 | BN037799.D | 09/19/2025 |
| RE122D3-20250911 | Q3095-32 | BN037800.D | 09/19/2025 |
| RE117D1-20250910 | Q3095-27 | BN037815.D | 09/19/2025 |
| RE104D3-20250910 | Q3095-28 | BN037843.D | 09/20/2025 |
| RE103D2-20250911MS | Q3097-02MS | BN037772.D | 09/18/2025 |
| RE103D2-20250911MSD | Q3097-03MSD | BN037773.D | 09/18/2025 |

COMMENTS:

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**5B**

**SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK**
**DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)**

Lab Name: Alliance — Contract: AECO15

Lab Code: ACE — SDG NO.: Q3095

Lab File ID: BN037689.D — DFTPP Injection Date: 09/11/2025

Instrument ID: BNA_N — DFTPP Injection Time: 07:54

| m/e | ION ABUNDANCE CRITERIA | % RELATIVE ABUNDANCE |
|---|---|---|
| 68 | Less than 2.0% of mass 69 | 0.4 ( 1 ) 1 |
| 69 | Mass 69 relative abundance | 36.7 |
| 70 | Less than 2.0% of mass 69 | 0.2 ( 0.6 ) 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 | 6.2 |
| 365 | Greater than 1% of mass 198 | 3.5 |
| 441 | Present, but less than mass 443 | 11.5 |
| 442 | Greater than 50% of mass 198 | 71 |
| 443 | 15.0 - 24.0% of mass 442 | 14.5 (20.4) 2 |

1-Value is % mass 69

2-Value is % mass 442

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

| EPA SAMPLE NO. | LAB SAMPLE ID | LAB FILE ID | DATE ANALYZED | TIME ANALYZED |
|---|---|---|---|---|
| SSTDICC0.1 | SSTDICC0.1 | BN037691.D | 09/11/2025 | 09:56 |
| SSTDICC0.2 | SSTDICC0.2 | BN037692.D | 09/11/2025 | 10:32 |
| SSTDICCC0.4 | SSTDICCC0.4 | BN037693.D | 09/11/2025 | 11:08 |
| SSTDICC0.8 | SSTDICC0.8 | BN037694.D | 09/11/2025 | 11:44 |
| SSTDICC1.6 | SSTDICC1.6 | BN037695.D | 09/11/2025 | 12:20 |
| SSTDICC3.2 | SSTDICC3.2 | BN037696.D | 09/11/2025 | 12:56 |
| SSTDICC5.0 | SSTDICC5.0 | BN037697.D | 09/11/2025 | 13:33 |

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**5B**

**SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK**
**DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)**

Lab Name: Alliance — Contract: AECO15

Lab Code: ACE — SDG NO.: Q3095

Lab File ID: BN037739.D — DFTPP Injection Date: 09/17/2025

Instrument ID: BNA_N — DFTPP Injection Time: 10:46

| m/e | ION ABUNDANCE CRITERIA | % RELATIVE ABUNDANCE |
|---|---|---|
| 68 | Less than 2.0% of mass 69 | 0.5 ( 1.3 ) 1 |
| 69 | Mass 69 relative abundance | 35.5 |
| 70 | Less than 2.0% of mass 69 | 0.2 ( 0.4 ) 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 | 6.9 |
| 365 | Greater than 1% of mass 198 | 3.7 |
| 441 | Present, but less than mass 443 | 14.6 |
| 442 | Greater than 50% of mass 198 | 83 |
| 443 | 15.0 - 24.0% of mass 442 | 17.7 (21.3) 2 |

1-Value is % mass 69

2-Value is % mass 442

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

| EPA SAMPLE NO. | LAB SAMPLE ID | LAB FILE ID | DATE ANALYZED | TIME ANALYZED |
|---|---|---|---|---|
| SSTDCCC0.4 | SSTDCCC0.4 | BN037740.D | 09/17/2025 | 11:25 |
| MW203D2-20250909 | Q3095-05 | BN037742.D | 09/17/2025 | 12:38 |
| MW203D2-20250909MS | Q3095-06MS | BN037743.D | 09/17/2025 | 13:14 |
| MW203D2-20250909MSD | Q3095-07MSD | BN037744.D | 09/17/2025 | 13:59 |
| MW305I-20250908 | Q3095-01 | BN037747.D | 09/17/2025 | 15:47 |
| MW179D-20250908 | Q3095-02 | BN037748.D | 09/17/2025 | 16:24 |
| MW201D-20250908 | Q3095-03 | BN037749.D | 09/17/2025 | 17:00 |
| MW179D1-20250908 | Q3095-04 | BN037750.D | 09/17/2025 | 17:36 |
| MW203D1-20250909 | Q3095-08 | BN037751.D | 09/17/2025 | 18:13 |
| MW179D2-20250909 | Q3095-09 | BN037752.D | 09/17/2025 | 18:49 |
| MW201D1-20250909 | Q3095-10 | BN037753.D | 09/17/2025 | 19:25 |
| RE122D1-20250909 | Q3095-11 | BN037754.D | 09/17/2025 | 20:01 |
| MW178I1-20250909 | Q3095-13 | BN037755.D | 09/17/2025 | 20:37 |
| SSTDCCC0.4EC | SSTDCCC0.4 | BN037757.D | 09/17/2025 | 21:50 |

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**5B**

**SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK**
**DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)**

Lab Name: Alliance — Contract: AECO15

Lab Code: ACE — SDG NO.: Q3095

Lab File ID: BN037758.D — DFTPP Injection Date: 09/18/2025

Instrument ID: BNA_N — DFTPP Injection Time: 02:06

| m/e | ION ABUNDANCE CRITERIA | % RELATIVE ABUNDANCE |
|---|---|---|
| 68 | Less than 2.0% of mass 69 | 0.4 ( 1.1 ) 1 |
| 69 | Mass 69 relative abundance | 37.4 |
| 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 | 6.9 |
| 365 | Greater than 1% of mass 198 | 3.3 |
| 441 | Present, but less than mass 443 | 14.3 |
| 442 | Greater than 50% of mass 198 | 82.9 |
| 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 SAMPLE NO. | LAB SAMPLE ID | LAB FILE ID | DATE ANALYZED | TIME ANALYZED |
|---|---|---|---|---|
| SSTDCCC0.4 | SSTDCCC0.4 | BN037759.D | 09/18/2025 | 02:46 |
| MW202D-20250909 | Q3095-12 | BN037761.D | 09/18/2025 | 03:58 |
| RE123D1-20250909 | Q3095-14 | BN037762.D | 09/18/2025 | 04:34 |
| RE123D3-20250909 | Q3095-15 | BN037763.D | 09/18/2025 | 05:10 |
| MW305D-20250909 | Q3095-16 | BN037764.D | 09/18/2025 | 05:46 |
| DUP01-20250909 | Q3095-17 | BN037765.D | 09/18/2025 | 06:23 |
| RE126D2-20250909 | Q3095-18 | BN037766.D | 09/18/2025 | 06:59 |
| RE126D3-20250909 | Q3095-19 | BN037767.D | 09/18/2025 | 07:35 |
| MW178S-20250910 | Q3095-20 | BN037768.D | 09/18/2025 | 08:11 |
| RE103D2-20250911MS | Q3097-02MS | BN037772.D | 09/18/2025 | 11:48 |
| RE103D2-20250911MSD | Q3097-03MSD | BN037773.D | 09/18/2025 | 12:25 |
| SSTDCCC0.4EC | SSTDCCC0.4 | BN037774.D | 09/18/2025 | 13:16 |

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SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK

DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: Alliance Contract: AECO15

Lab Code: ACE SDG NO.: Q3095

Lab File ID: BN037775.D DFTPP Injection Date: 09/18/2025

Instrument ID: BNA_N DFTPP Injection Time: 13:53

| m/e | ION ABUNDANCE CRITERIA | % RELATIVE ABUNDANCE |
|---|---|---|
| 68 | Less than 2.0% of mass 69 | 0.7 ( 1.7 ) 1 |
| 69 | Mass 69 relative abundance | 39.3 |
| 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 | 7 |
| 365 | Greater than 1% of mass 198 | 3.4 |
| 441 | Present, but less than mass 443 | 13.9 |
| 442 | Greater than 50% of mass 198 | 85.7 |
| 443 | 15.0 - 24.0% of mass 442 | 16.2 (18.9) 2 |

1-Value is % mass 69

2-Value is % mass 442

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

| EPA SAMPLE NO. | LAB SAMPLE ID | LAB FILE ID | DATE ANALYZED | TIME ANALYZED |
|---|---|---|---|---|
| SSTDCCC0.4 | SSTDCCC0.4 | BN037776.D | 09/18/2025 | 14:32 |
| PB169693BL | PB169693BL | BN037777.D | 09/18/2025 | 15:10 |
| RE126D1-20250910 | Q3095-21 | BN037783.D | 09/18/2025 | 18:49 |
| MW202D1-20250910 | Q3095-22 | BN037784.D | 09/18/2025 | 19:25 |
| RE104D2-20250910 | Q3095-23 | BN037785.D | 09/18/2025 | 20:02 |
| MW178I-20250910 | Q3095-24 | BN037786.D | 09/18/2025 | 20:38 |
| DUP02-20250910 | Q3095-25 | BN037787.D | 09/18/2025 | 21:14 |
| DUP03-20250910 | Q3095-26 | BN037788.D | 09/18/2025 | 21:51 |
| MW201D-20250908DL | Q3095-03DL | BN037789.D | 09/18/2025 | 22:27 |
| PB169692BS | PB169692BS | BN037791.D | 09/18/2025 | 23:40 |
| PB169693BS | PB169693BS | BN037792.D | 09/19/2025 | 00:16 |
| SSTDCCC0.4EC | SSTDCCC0.4 | BN037793.D | 09/19/2025 | 00:52 |

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**5B**

**SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK**
**DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)**

Lab Name: Alliance — Contract: AECO15

Lab Code: ACE — SDG NO.: Q3095

Lab File ID: BN037794.D — DFTPP Injection Date: 09/19/2025

Instrument ID: BNA_N — DFTPP Injection Time: 02:08

| m/e | ION ABUNDANCE CRITERIA | % RELATIVE ABUNDANCE |
|---|---|---|
| 68 | Less than 2.0% of mass 69 | 0.5 ( 1.4 ) 1 |
| 69 | Mass 69 relative abundance | 37 |
| 70 | Less than 2.0% of mass 69 | 0.2 ( 0.6 ) 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 | 3.8 |
| 441 | Present, but less than mass 443 | 14.6 |
| 442 | Greater than 50% of mass 198 | 92.6 |
| 443 | 15.0 - 24.0% of mass 442 | 16.9 (18.3) 2 |

1-Value is % mass 69

2-Value is % mass 442

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

| EPA SAMPLE NO. | LAB SAMPLE ID | LAB FILE ID | DATE ANALYZED | TIME ANALYZED |
|---|---|---|---|---|
| SSTDCCC0.4 | SSTDCCC0.4 | BN037795.D | 09/19/2025 | 02:47 |
| PB169692BL | PB169692BL | BN037796.D | 09/19/2025 | 03:24 |
| RE122D2-20250910 | Q3095-29 | BN037797.D | 09/19/2025 | 04:00 |
| RE104D1-20250910 | Q3095-30 | BN037798.D | 09/19/2025 | 04:37 |
| TT180D-20250911 | Q3095-31 | BN037799.D | 09/19/2025 | 05:13 |
| RE122D3-20250911 | Q3095-32 | BN037800.D | 09/19/2025 | 05:49 |
| SSTDCCC0.4EC | SSTDCCC0.4 | BN037811.D | 09/19/2025 | 13:03 |

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**5B**

**SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK**
**DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)**

Lab Name: Alliance Contract: AECO15

Lab Code: ACE SDG NO.: Q3095

Lab File ID: BN037812.D DFTPP Injection Date: 09/19/2025

Instrument ID: BNA_N DFTPP Injection Time: 13:39

| m/e | ION ABUNDANCE CRITERIA | % RELATIVE ABUNDANCE |
|---|---|---|
| 68 | Less than 2.0% of mass 69 | 0.5 ( 1.4 ) 1 |
| 69 | Mass 69 relative abundance | 39 |
| 70 | Less than 2.0% of mass 69 | 0.2 ( 0.6 ) 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 | 3.8 |
| 441 | Present, but less than mass 443 | 12.9 |
| 442 | Greater than 50% of mass 198 | 79.5 |
| 443 | 15.0 - 24.0% of mass 442 | 15.9 (20.1) 2 |

1-Value is % mass 69

2-Value is % mass 442

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

| EPA SAMPLE NO. | LAB SAMPLE ID | LAB FILE ID | DATE ANALYZED | TIME ANALYZED |
|---|---|---|---|---|
| SSTDCCC0.4 | SSTDCCC0.4 | BN037813.D | 09/19/2025 | 14:19 |
| RE117D1-20250910 | Q3095-27 | BN037815.D | 09/19/2025 | 15:32 |
| SSTDCCC0.4EC | SSTDCCC0.4 | BN037830.D | 09/20/2025 | 00:39 |

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**5B**

**SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK**
**DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)**

Lab Name: Alliance — Contract: AECO15

Lab Code: ACE — SDG NO.: Q3095

Lab File ID: BN037831.D — DFTPP Injection Date: 09/20/2025

Instrument ID: BNA_N — DFTPP Injection Time: 01:16

| m/e | ION ABUNDANCE CRITERIA | % RELATIVE ABUNDANCE |
|---|---|---|
| 68 | Less than 2.0% of mass 69 | 0.8 ( 1.9 ) 1 |
| 69 | Mass 69 relative abundance | 40.3 |
| 70 | Less than 2.0% of mass 69 | 0.2 ( 0.6 ) 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 | 6.8 |
| 365 | Greater than 1% of mass 198 | 3.8 |
| 441 | Present, but less than mass 443 | 13.2 |
| 442 | Greater than 50% of mass 198 | 80 |
| 443 | 15.0 - 24.0% of mass 442 | 16.2 (20.2) 2 |

1-Value is % mass 69

2-Value is % mass 442

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

| EPA SAMPLE NO. | LAB SAMPLE ID | LAB FILE ID | DATE ANALYZED | TIME ANALYZED |
|---|---|---|---|---|
| SSTDCCC0.4 | SSTDCCC0.4 | BN037832.D | 09/20/2025 | 02:35 |
| RE104D3-20250910 | Q3095-28 | BN037843.D | 09/20/2025 | 09:14 |
| SSTDCCC0.4EC | SSTDCCC0.4 | BN037847.D | 09/20/2025 | 11:39 |

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8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: Alliance

Lab Code: ACE SDG NO.: Q3095

Client ID : SSTDCCC0.4 Date Analyzed: 09/17/2025

Lab File ID: BN037740.D Time Analyzed: 11:25

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

| | | IS1 (DCB) AREA # | RT # | IS2 (NPT) AREA # | RT # | IS3 (ANT) AREA # | RT # |
|---|---|---|---|---|---|---|---|
| | 12 HOUR STD | 6660 | 7.84 | 18396 | 10.65 | 8930 | 14.50 |
| | UPPER LIMIT | 13320 | 8.34 | 36792 | 11.148 | 17860 | 14.995 |
| | LOWER LIMIT | 3330 | 7.34 | 9198 | 10.148 | 4465 | 13.995 |
| | EPA SAMPLE NO. | | | | | | |
| 01 | MW305I-20250908 | 6426 | 7.84 | 17307 | 10.64 | 7564 | 14.49 |
| 02 | MW179D-20250908 | 6623 | 7.84 | 18145 | 10.64 | 8084 | 14.49 |
| 03 | MW201D-20250908 | 6464 | 7.84 | 17423 | 10.64 | 7814 | 14.50 |
| 04 | MW179D1-20250908 | 6641 | 7.84 | 17861 | 10.64 | 7906 | 14.50 |
| 05 | MW203D2-20250909 | 7535 | 7.84 | 20988 | 10.65 | 9821 | 14.49 |
| 06 | MW203D2-20250909MS | 6853 | 7.84 | 18950 | 10.64 | 8815 | 14.49 |
| 07 | MW203D2-20250909MSD | 7569 | 7.85 | 20880 | 10.65 | 9823 | 14.49 |
| 08 | MW203D1-20250909 | 6737 | 7.84 | 18255 | 10.64 | 8162 | 14.50 |
| 09 | MW179D2-20250909 | 6450 | 7.84 | 17530 | 10.64 | 7934 | 14.49 |
| 10 | MW201D1-20250909 | 6375 | 7.83 | 17020 | 10.64 | 7746 | 14.48 |
| 11 | RE122D1-20250909 | 6754 | 7.83 | 18549 | 10.64 | 8723 | 14.49 |
| 12 | MW178I1-20250909 | 6476 | 7.83 | 17530 | 10.64 | 7818 | 14.49 |

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

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

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

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8C

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: Alliance

Lab Code: ACE SDG NO.: Q3095

Client ID: SSTDCCC0.4 Date Analyzed: 09/17/2025

Lab File ID: BN037740.D Time Analyzed: 11:25

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

| | | IS4 (PHN) AREA # | RT # | IS5 (CRY) AREA # | RT # | IS6 (PRY) AREA # | RT # |
|---|---|---|---|---|---|---|---|
| | 12 HOUR STD | 15814 | 17.235 | 13841 | 21.42 | 14132 | 23.753 |
| | UPPER LIMIT | 31628 | 17.735 | 27682 | 21.92 | 28264 | 24.253 |
| | LOWER LIMIT | 7907 | 16.735 | 6920.5 | 20.92 | 7066 | 23.253 |
| | EPA SAMPLE NO. | | | | | | |
| 01 | MW305I-20250908 | 13404 | 17.24 | 10925 | 21.41 | 10440 | 23.75 |
| 02 | MW179D-20250908 | 13859 | 17.24 | 11041 | 21.41 | 10735 | 23.75 |
| 03 | MW201D-20250908 | 14079 | 17.24 | 12160 | 21.41 | 12015 | 23.75 |
| 04 | MW179D1-20250908 | 13742 | 17.24 | 11462 | 21.41 | 11339 | 23.75 |
| 05 | MW203D2-20250909 | 16837 | 17.24 | 12718 | 21.41 | 12632 | 23.75 |
| 06 | MW203D2-20250909MS | 15289 | 17.24 | 13059 | 21.42 | 12757 | 23.75 |
| 07 | MW203D2-20250909MSD | 16954 | 17.24 | 14253 | 21.42 | 13967 | 23.76 |
| 08 | MW203D1-20250909 | 14474 | 17.24 | 12341 | 21.41 | 12297 | 23.75 |
| 09 | MW179D2-20250909 | 13430 | 17.24 | 10479 | 21.41 | 10489 | 23.75 |
| 10 | MW201D1-20250909 | 13901 | 17.24 | 12559 | 21.41 | 12839 | 23.75 |
| 11 | RE122D1-20250909 | 14502 | 17.24 | 10754 | 21.41 | 10771 | 23.75 |
| 12 | MW178I1-20250909 | 14505 | 17.24 | 12734 | 21.41 | 12709 | 23.75 |

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

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

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

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8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: Alliance

Lab Code: ACE SDG NO.: Q3095

Client ID : SSTDCCC0.4 Date Analyzed: 09/18/2025

Lab File ID: BN037759.D Time Analyzed: 02:46

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

| | | IS1 (DCB) AREA # | RT # | IS2 (NPT) AREA # | RT # | IS3 (ANT) AREA # | RT # |
|---|---|---|---|---|---|---|---|
| | 12 HOUR STD | 8012 | 7.833 | 21664 | 10.64 | 10192 | 14.48 |
| | UPPER LIMIT | 16024 | 8.333 | 43328 | 11.137 | 20384 | 14.984 |
| | LOWER LIMIT | 4006 | 7.333 | 10832 | 10.137 | 5096 | 13.984 |
| | EPA SAMPLE NO. | | | | | | |
| 01 | MW202D-20250909 | 7232 | 7.83 | 19420 | 10.64 | 8613 | 14.48 |
| 02 | RE123D1-20250909 | 6993 | 7.83 | 18780 | 10.64 | 8989 | 14.48 |
| 03 | RE123D3-20250909 | 7985 | 7.83 | 22130 | 10.64 | 10297 | 14.48 |
| 04 | MW305D-20250909 | 7657 | 7.83 | 21168 | 10.64 | 9850 | 14.48 |
| 05 | DUP01-20250909 | 7819 | 7.83 | 21320 | 10.64 | 9718 | 14.48 |
| 06 | RE126D2-20250909 | 8399 | 7.83 | 23335 | 10.64 | 10732 | 14.48 |
| 07 | RE126D3-20250909 | 8360 | 7.83 | 22865 | 10.64 | 10200 | 14.48 |
| 08 | MW178S-20250910 | 7451 | 7.83 | 19960 | 10.64 | 9139 | 14.48 |
| 09 | RE103D2-20250911MS | 7218 | 7.83 | 19437 | 10.64 | 8792 | 14.48 |
| 10 | RE103D2-20250911MSD | 7159 | 7.83 | 19099 | 10.64 | 8494 | 14.48 |

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

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

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

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8C

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: Alliance

Lab Code: ACE SDG NO.: Q3095

Client ID: SSTDCCC0.4 Date Analyzed: 09/18/2025

Lab File ID: BN037759.D Time Analyzed: 02:46

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

| | | IS4 (PHN) AREA # | RT # | IS5 (CRY) AREA # | RT # | IS6 (PRY) AREA # | RT # |
|---|---|---|---|---|---|---|---|
| | 12 HOUR STD | 18613 | 17.235 | 16797 | 21.411 | 18043 | 23.741 |
| | UPPER LIMIT | 37226 | 17.735 | 33594 | 21.911 | 36086 | 24.241 |
| | LOWER LIMIT | 9306.5 | 16.735 | 8398.5 | 20.911 | 9021.5 | 23.241 |
| | EPA SAMPLE NO. | | | | | | |
| 01 | MW202D-20250909 | 15444 | 17.24 | 12865 | 21.41 | 13080 | 23.74 |
| 02 | RE123D1-20250909 | 16581 | 17.24 | 13960 | 21.41 | 14258 | 23.74 |
| 03 | RE123D3-20250909 | 18311 | 17.24 | 14395 | 21.41 | 14910 | 23.74 |
| 04 | MW305D-20250909 | 18466 | 17.24 | 16400 | 21.41 | 17053 | 23.74 |
| 05 | DUP01-20250909 | 17159 | 17.24 | 13647 | 21.41 | 14246 | 23.74 |
| 06 | RE126D2-20250909 | 18615 | 17.24 | 13639 | 21.41 | 14319 | 23.75 |
| 07 | RE126D3-20250909 | 17532 | 17.24 | 14129 | 21.41 | 14395 | 23.75 |
| 08 | MW178S-20250910 | 17489 | 17.24 | 16160 | 21.41 | 15607 | 23.74 |
| 09 | RE103D2-20250911MS | 14560 | 17.24 | 11077 | 21.41 | 10712 | 23.74 |
| 10 | RE103D2-20250911MSD | 14218 | 17.24 | 11982 | 21.41 | 11726 | 23.75 |

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

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

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

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8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: Alliance

Lab Code: ACE SDG NO.: Q3095

Client ID : SSTDCCC0.4 Date Analyzed: 09/18/2025

Lab File ID: BN037776.D Time Analyzed: 14:32

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

| | | IS1 (DCB) AREA # | RT # | IS2 (NPT) AREA # | RT # | IS3 (ANT) AREA # | RT # |
|---|---|---|---|---|---|---|---|
| | 12 HOUR STD | 7127 | 7.833 | 18984 | 10.64 | 8698 | 14.48 |
| | UPPER LIMIT | 14254 | 8.333 | 37968 | 11.137 | 17396 | 14.984 |
| | LOWER LIMIT | 3563.5 | 7.333 | 9492 | 10.137 | 4349 | 13.984 |
| | EPA SAMPLE NO. | | | | | | |
| 01 | PB169692BS | 6983 | 7.83 | 18103 | 10.64 | 7729 | 14.48 |
| 02 | PB169693BL | 6667 | 7.84 | 17045 | 10.64 | 7049 | 14.48 |
| 03 | PB169693BS | 7441 | 7.83 | 19392 | 10.64 | 8149 | 14.48 |
| 04 | MW201D-20250908DL | 7715 | 7.83 | 20993 | 10.64 | 9567 | 14.48 |
| 05 | RE126D1-20250910 | 8225 | 7.83 | 22467 | 10.64 | 10495 | 14.48 |
| 06 | MW202D1-20250910 | 7721 | 7.83 | 20880 | 10.64 | 9442 | 14.48 |
| 07 | RE104D2-20250910 | 7416 | 7.83 | 19792 | 10.64 | 9115 | 14.48 |
| 08 | MW178I-20250910 | 7906 | 7.83 | 21432 | 10.64 | 9551 | 14.48 |
| 09 | DUP02-20250910 | 8067 | 7.83 | 22034 | 10.64 | 10108 | 14.48 |
| 10 | DUP03-20250910 | 7666 | 7.83 | 20364 | 10.64 | 8849 | 14.48 |

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

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

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

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8C

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: Alliance

Lab Code: ACE SDG NO.: Q3095

Client ID: SSTDCCC0.4 Date Analyzed: 09/18/2025

Lab File ID: BN037776.D Time Analyzed: 14:32

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

| | | IS4 (PHN) AREA # | RT # | IS5 (CRY) AREA # | RT # | IS6 (PRY) AREA # | RT # |
|---|---|---|---|---|---|---|---|
| | 12 HOUR STD | 14526 | 17.235 | 10438 | 21.411 | 10600 | 23.744 |
| | UPPER LIMIT | 29052 | 17.735 | 20876 | 21.911 | 21200 | 24.244 |
| | LOWER LIMIT | 7263 | 16.735 | 5219 | 20.911 | 5300 | 23.244 |
| | EPA SAMPLE NO. | | | | | | |
| 01 | PB169692BS | 12277 | 17.24 | 10644 | 21.41 | 10808 | 23.74 |
| 02 | PB169693BL | 11652 | 17.24 | 9221 | 21.41 | 9002 | 23.75 |
| 03 | PB169693BS | 12386 | 17.24 | 10095 | 21.41 | 10200 | 23.74 |
| 04 | MW201D-20250908DL | 16081 | 17.24 | 11736 | 21.41 | 11717 | 23.74 |
| 05 | RE126D1-20250910 | 19347 | 17.24 | 17267 | 21.41 | 17743 | 23.74 |
| 06 | MW202D1-20250910 | 16202 | 17.24 | 13556 | 21.41 | 13782 | 23.74 |
| 07 | RE104D2-20250910 | 16768 | 17.24 | 14951 | 21.41 | 14804 | 23.74 |
| 08 | MW178I-20250910 | 16120 | 17.24 | 12351 | 21.41 | 12408 | 23.74 |
| 09 | DUP02-20250910 | 17248 | 17.24 | 12319 | 21.41 | 12006 | 23.74 |
| 10 | DUP03-20250910 | 15319 | 17.24 | 12443 | 21.41 | 11797 | 23.74 |

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

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

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

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8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: Alliance

Lab Code: ACE SDG NO.: Q3095

Client ID : SSTDCCC0.4 Date Analyzed: 09/19/2025

Lab File ID: BN037795.D Time Analyzed: 02:47

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

| | | IS1 (DCB) AREA # | RT # | IS2 (NPT) AREA # | RT # | IS3 (ANT) AREA # | RT # |
|---|---|---|---|---|---|---|---|
| | 12 HOUR STD | 7724 | 7.833 | 19361 | 10.64 | 8621 | 14.48 |
| | UPPER LIMIT | 15448 | 8.333 | 38722 | 11.137 | 17242 | 14.984 |
| | LOWER LIMIT | 3862 | 7.333 | 9680.5 | 10.137 | 4310.5 | 13.984 |
| | EPA SAMPLE NO. | | | | | | |
| 01 | PB169692BL | 7701 | 7.83 | 18665 | 10.64 | 7806 | 14.48 |
| 02 | RE122D2-20250910 | 6378 | 7.83 | 15422 | 10.64 | 6530 | 14.48 |
| 03 | RE104D1-20250910 | 6794 | 7.83 | 16429 | 10.64 | 7128 | 14.48 |
| 04 | TT180D-20250911 | 6964 | 7.83 | 16642 | 10.64 | 7189 | 14.48 |
| 05 | RE122D3-20250911 | 5969 | 7.83 | 15717 | 10.64 | 6882 | 14.48 |

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

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

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

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8C

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: Alliance

Lab Code: ACE SDG NO.: Q3095

Client ID: SSTDCCC0.4 Date Analyzed: 09/19/2025

Lab File ID: BN037795.D Time Analyzed: 02:47

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

| | | IS4 (PHN) AREA # | RT # | IS5 (CRY) AREA # | RT # | IS6 (PRY) AREA # | RT # |
|---|---|---|---|---|---|---|---|
| | 12 HOUR STD | 14380 | 17.235 | 11169 | 21.411 | 11840 | 23.742 |
| | UPPER LIMIT | 28760 | 17.735 | 22338 | 21.911 | 23680 | 24.242 |
| | LOWER LIMIT | 7190 | 16.735 | 5584.5 | 20.911 | 5920 | 23.242 |
| | EPA SAMPLE NO. | | | | | | |
| 01 | PB169692BL | 12511 | 17.24 | 10022 | 21.41 | 10278 | 23.74 |
| 02 | RE122D2-20250910 | 11243 | 17.24 | 9477 | 21.41 | 9344 | 23.74 |
| 03 | RE104D1-20250910 | 12460 | 17.24 | 10431 | 21.41 | 10216 | 23.74 |
| 04 | TT180D-20250911 | 12481 | 17.24 | 10625 | 21.41 | 10338 | 23.74 |
| 05 | RE122D3-20250911 | 11849 | 17.24 | 9882 | 21.41 | 9588 | 23.74 |

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

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

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

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8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: Alliance

Lab Code: ACE SDG NO.: Q3095

Client ID : SSTDCCC0.4 Date Analyzed: 09/19/2025

Lab File ID: BN037813.D Time Analyzed: 14:19

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

| | | IS1 (DCB) AREA # | RT # | IS2 (NPT) AREA # | RT # | IS3 (ANT) AREA # | RT # |
|---|---|---|---|---|---|---|---|
| | 12 HOUR STD | 4812 | 7.833 | 12410 | 10.64 | 5585 | 14.48 |
| | UPPER LIMIT | 9624 | 8.333 | 24820 | 11.137 | 11170 | 14.984 |
| | LOWER LIMIT | 2406 | 7.333 | 6205 | 10.137 | 2792.5 | 13.984 |
| | EPA SAMPLE NO. | | | | | | |
| 01 | RE117D1-20250910 | 4745 | 7.83 | 12184 | 10.64 | 5111 | 14.48 |

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

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

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

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8C

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: Alliance

Lab Code: ACE SDG NO.: Q3095

Client ID: SSTDCCC0.4 Date Analyzed: 09/19/2025

Lab File ID: BN037813.D Time Analyzed: 14:19

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

| | | IS4 (PHN) AREA # | RT # | IS5 (CRY) AREA # | RT # | IS6 (PRY) AREA # | RT # |
|---|---|---|---|---|---|---|---|
| | 12 HOUR STD | 9638 | 17.235 | 8466 | 21.411 | 8084 | 23.739 |
| | UPPER LIMIT | 19276 | 17.735 | 16932 | 21.911 | 16168 | 24.239 |
| | LOWER LIMIT | 4819 | 16.735 | 4233 | 20.911 | 4042 | 23.239 |
| | EPA SAMPLE NO. | | | | | | |
| 01 | RE117D1-20250910 | 8978 | 17.22 | 8113 | 21.41 | 7855 | 23.74 |

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

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

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

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8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: Alliance

Lab Code: ACE SDG NO.: Q3095

Client ID : SSTDCCC0.4 Date Analyzed: 09/20/2025

Lab File ID: BN037832.D Time Analyzed: 02:35

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

| | | IS1 (DCB) AREA # | RT # | IS2 (NPT) AREA # | RT # | IS3 (ANT) AREA # | RT # |
|---|---|---|---|---|---|---|---|
| | 12 HOUR STD | 6232 | 7.825 | 16500 | 10.64 | 7183 | 14.48 |
| | UPPER LIMIT | 12464 | 8.325 | 33000 | 11.137 | 14366 | 14.984 |
| | LOWER LIMIT | 3116 | 7.325 | 8250 | 10.137 | 3591.5 | 13.984 |
| | EPA SAMPLE NO. | | | | | | |
| 01 | RE104D3-20250910 | 5576 | 7.83 | 14489 | 10.63 | 6033 | 14.48 |

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

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

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

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Fax : 908 789 8922

8C

## SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: Alliance

Lab Code: ACE SDG NO.: Q3095

Client ID: SSTDCCC0.4 Date Analyzed: 09/20/2025

Lab File ID: BN037832.D Time Analyzed: 02:35

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

| | | IS4 (PHN) AREA # | RT # | IS5 (CRY) AREA # | RT # | IS6 (PRY) AREA # | | RT # |
|---|---|---|---|---|---|---|---|---|
| | 12 HOUR STD | 11907 | 17.223 | 9777 | 21.402 | 10066 | | 23.736 |
| | UPPER LIMIT | 23814 | 17.723 | 19554 | 21.902 | 20132 | | 24.236 |
| | LOWER LIMIT | 5953.5 | 16.723 | 4888.5 | 20.902 | 5033 | | 23.236 |
| | EPA SAMPLE NO. | | | | | | | |
| 01 | RE104D3-20250910 | 10379 | 17.22 | 8825 | 21.40 | 32 | * | 23.74 |

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

Raw Data: **BN037747.D**

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

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | AECOM Technical Services, Inc. | Date Collected: | 09/08/25 |
| Project: | NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258 | Date Received: | 09/12/25 |
| Client Sample ID: | MW305I-20250908 | SDG No.: | Q3095 |
| Lab Sample ID: | Q3095-01 | Matrix: | Water |
| Analytical Method: | SW8270ESIM | % Solid: | 0 |
| Sample Wt/Vol: | 980 Units: mL | Final Vol: | 1000 uL |
| Soil Aliquot Vol: | uL | Test: | SVOC-SIMGroup1 |
| Extraction Type : | Decanted : N | Level : | LOW |
| Injection Volume : | GPC Factor : 1.0 | GPC Cleanup : | N PH : |
| Prep Method : | | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| BN037747.D | 1 | 09/15/25 10:15 | 09/17/25 15:47 | PB169692 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOD | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | | |
| 123-91-1 | 1,4-Dioxane | 0.43 | | 0.070 | 0.20 | 0.20 | ug/L |
| **SURROGATES** | | | | | | | |
| 7297-45-2 | 2-Methylnaphthalene-d10 | 0.29 | | 30 - 150 | | 72% | SPK: 0.4 |
| 93951-69-0 | Fluoranthene-d10 | 0.35 | | 30 - 150 | | 88% | SPK: 0.4 |
| 4165-60-0 | Nitrobenzene-d5 | 0.32 | | 55 - 111 | | 80% | SPK: 0.4 |
| 321-60-8 | 2-Fluorobiphenyl | 0.33 | | 53 - 106 | | 83% | SPK: 0.4 |
| 1718-51-0 | Terphenyl-d14 | 0.42 | | 58 - 132 | | 105% | SPK: 0.4 |
| **INTERNAL STANDARDS** | | | | | | | |
| 3855-82-1 | 1,4-Dichlorobenzene-d4 | 6430 | 7.84 | | | | |
| 1146-65-2 | Naphthalene-d8 | 17300 | 10.637 | | | | |
| 15067-26-2 | Acenaphthene-d10 | 7560 | 14.494 | | | | |
| 1517-22-2 | Phenanthrene-d10 | 13400 | 17.235 | | | | |
| 1719-03-5 | Chrysene-d12 | 10900 | 21.411 | | | | |
| 1520-96-3 | Perylene-d12 | 10400 | 23.747 | | | | |

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\BN091725\
Data File : BN037747.D
Acq On : 17 Sep 2025 15:47
Operator : RC/JU
Sample : Q3095-01
Misc :
ALS Vial : 9 Sample Multiplier: 1

**Instrument :**
BNA_N
**ClientSampleId :**
MW305I-20250908

Quant Time: Sep 17 16:29:42 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN091125.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Sep 11 14:20:01 2025
Response via : Initial Calibration

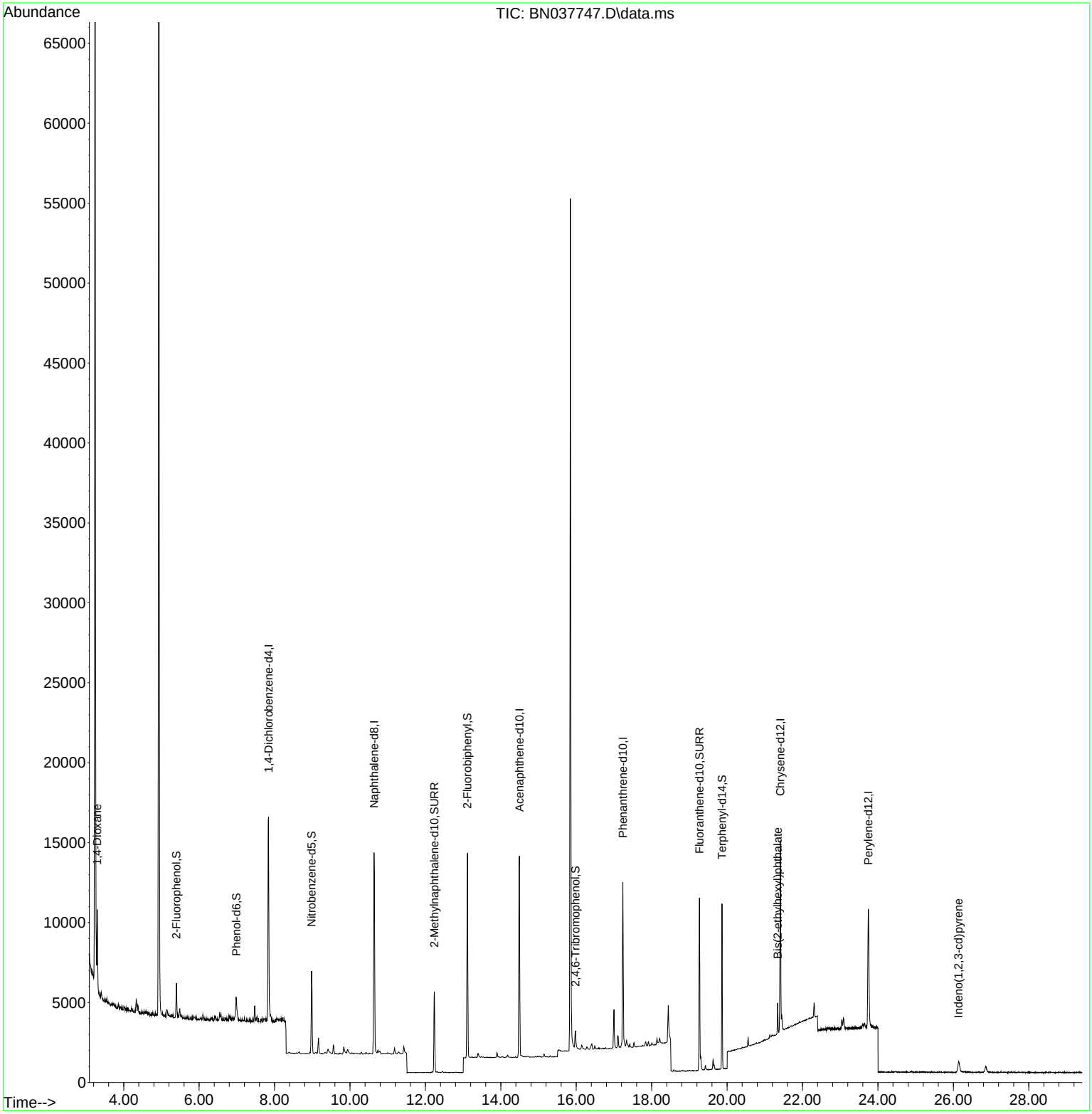
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) 1,4-Dichlorobenzene-d4 | 7.840 | 152 | 6426 | 0.400 | ng | 0.00 |
| 7) Naphthalene-d8 | 10.637 | 136 | 17307 | 0.400 | ng | -0.01 |
| 13) Acenaphthene-d10 | 14.494 | 164 | 7564 | 0.400 | ng | 0.00 |
| 19) Phenanthrene-d10 | 17.235 | 188 | 13404 | 0.400 | ng | 0.00 |
| 29) Chrysene-d12 | 21.411 | 240 | 10925 | 0.400 | ng | # 0.00 |
| 35) Perylene-d12 | 23.747 | 264 | 10440 | 0.400 | ng | # 0.00 |
| System Monitoring Compounds | | | | | | |
| 4) 2-Fluorophenol | 5.399 | 112 | 1544 | 0.105 | ng | 0.00 |
| 5) Phenol-d6 | 6.988 | 99 | 1164 | 0.061 | ng | 0.00 |
| 8) Nitrobenzene-d5 | 8.982 | 82 | 4046 | 0.320 | ng | -0.01 |
| 11) 2-Methylnaphthalene-d10 | 12.238 | 152 | 6653 | 0.290 | ng | 0.00 |
| 14) 2,4,6-Tribromophenol | 15.982 | 330 | 732 | 0.371 | ng | 0.00 |
| 15) 2-Fluorobiphenyl | 13.115 | 172 | 10498 | 0.332 | ng | 0.00 |
| 27) Fluoranthene-d10 | 19.266 | 212 | 11763 | 0.350 | ng | 0.00 |
| 31) Terphenyl-d14 | 19.866 | 244 | 9368 | 0.422 | ng | 0.00 |
| Target Compounds | | | | | | Qvalue |
| 2) 1,4-Dioxane | 3.297 | 88 | 2844 | 0.425 | ng | # 93 |
| 34) Bis(2-ethylhexyl)phtha... | 21.340 | 149 | 1967 | 0.174 | ng | # 96 |
| 36) Indeno(1,2,3-cd)pyrene | 26.139 | 276 | 885 | 0.020 | ng | # 87 |

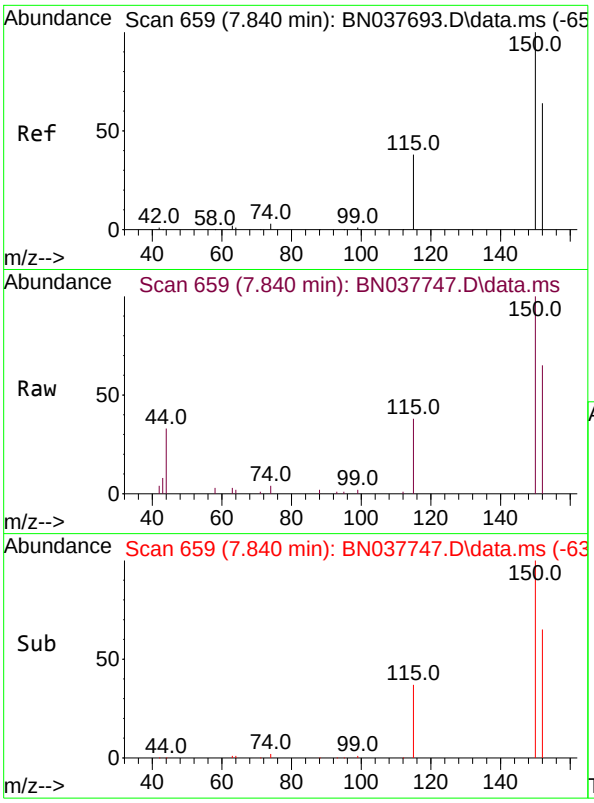
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN091725\
Data File : BN037747.D
Acq On : 17 Sep 2025 15:47
Operator : RC/JU
Sample : Q3095-01
Misc :
ALS Vial : 9 Sample Multiplier: 1

**Instrument :**
BNA_N
**ClientSampleId :**
MW305I-20250908

Quant Time: Sep 17 16:29:42 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN091125.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Sep 11 14:20:01 2025
Response via : Initial Calibration



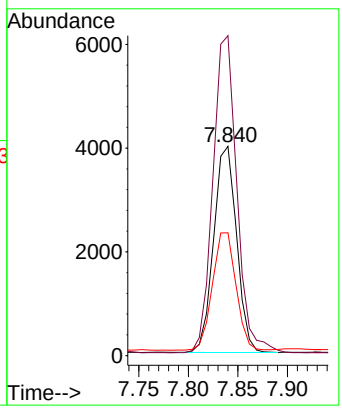


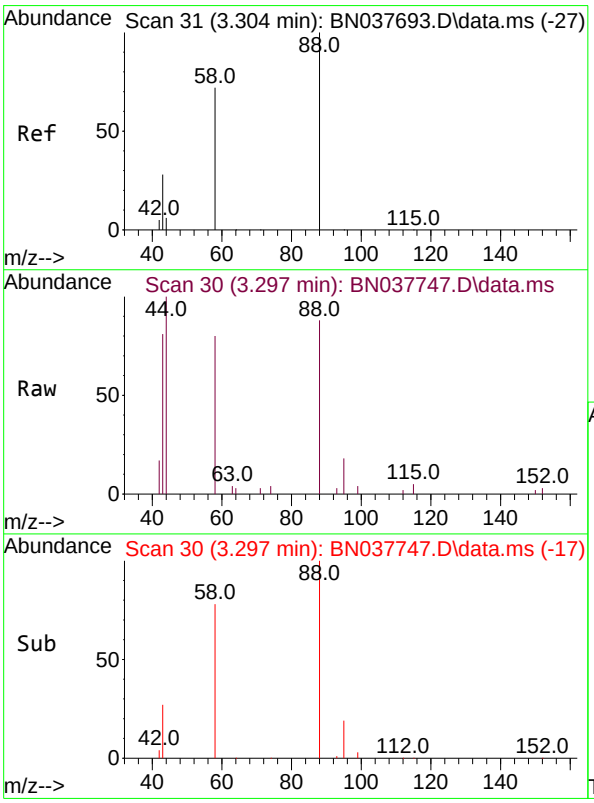

#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.840 min Scan# 6
Delta R.T. -0.000 min
Lab File: BN037747.D
Acq: 17 Sep 2025 15:47

**Instrument :**
BNA_N
**ClientSampleId :**
MW305I-20250908

Tgt Ion:152 Resp: 6426

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 150 | 152.9 | 124.5 | 186.7 |
| 115 | 58.7 | 49.2 | 73.8 |

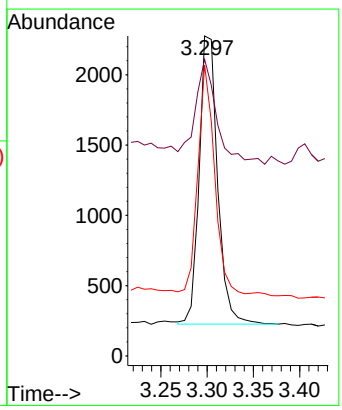


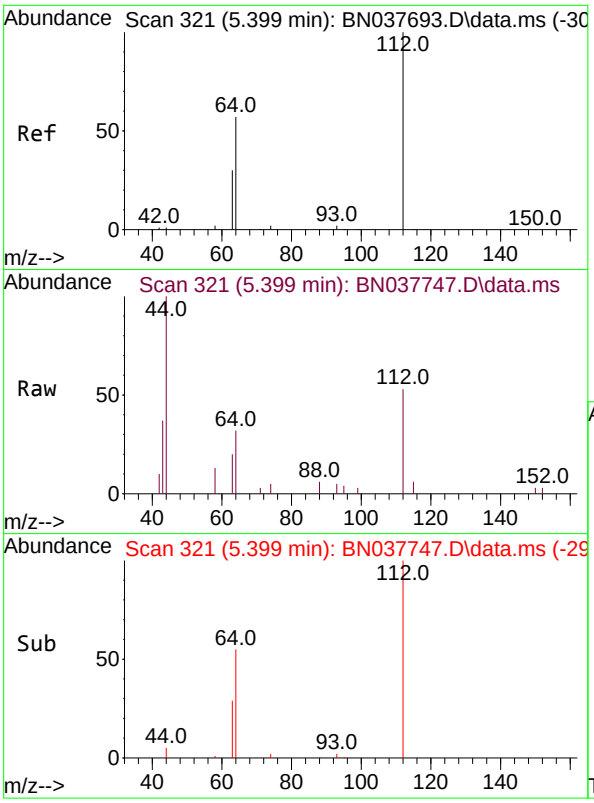




#2
1,4-Dioxane
Concen: 0.425 ng
RT: 3.297 min Scan# 30
Delta R.T. -0.007 min
Lab File: BN037747.D
Acq: 17 Sep 2025 15:47

Tgt Ion: 88 Resp: 2844

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 88 | 100 | | |
| 43 | 42.9 | 26.8 | 40.2# |
| 58 | 74.3 | 61.9 | 92.9 |



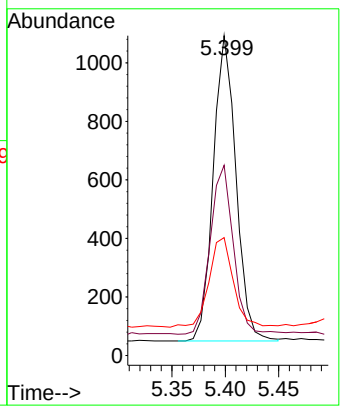


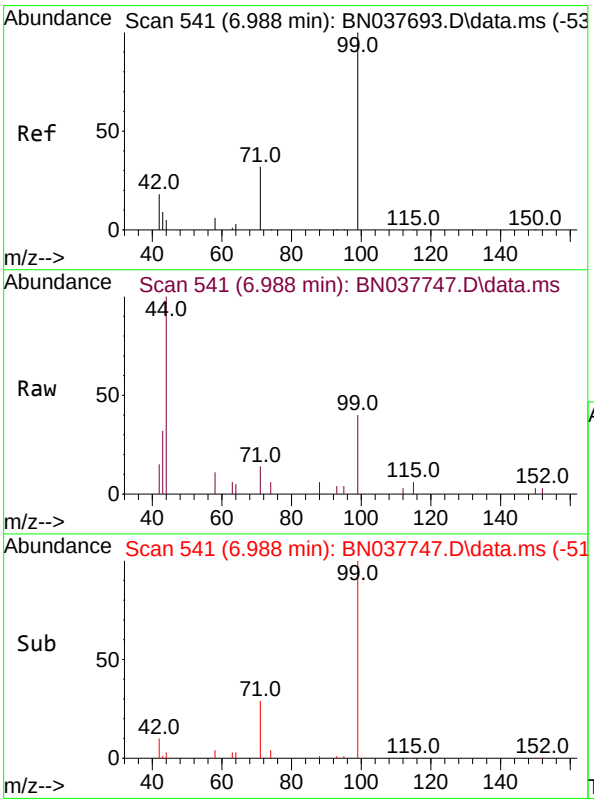

#4
2-Fluorophenol
Concen: 0.105 ng
RT: 5.399 min Scan# 3
Delta R.T. -0.000 min
Lab File: BN037747.D
Acq: 17 Sep 2025 15:47

**Instrument :**
BNA_N
**ClientSampleId :**
MW305I-20250908

Tgt Ion:112 Resp: 1544

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 112 | 100 | | |
| 64 | 56.2 | 44.9 | 67.3 |
| 63 | 31.5 | 24.7 | 37.1 |

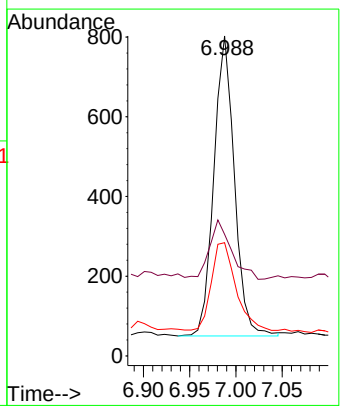


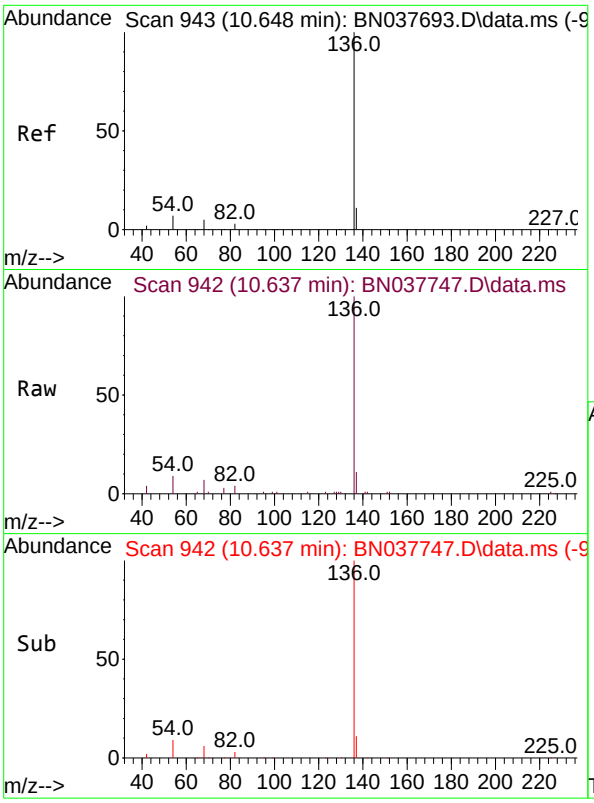




#5
Phenol-d6
Concen: 0.061 ng
RT: 6.988 min Scan# 541
Delta R.T. -0.000 min
Lab File: BN037747.D
Acq: 17 Sep 2025 15:47

Tgt Ion: 99 Resp: 1164

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 99 | 100 | | |
| 42 | 22.3 | 16.6 | 24.8 |
| 71 | 34.9 | 26.7 | 40.1 |



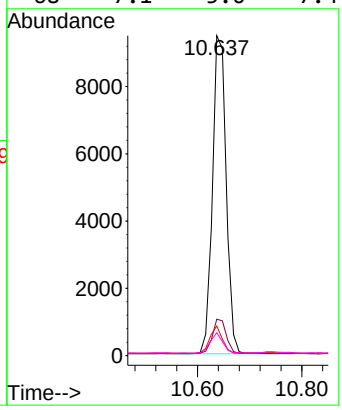


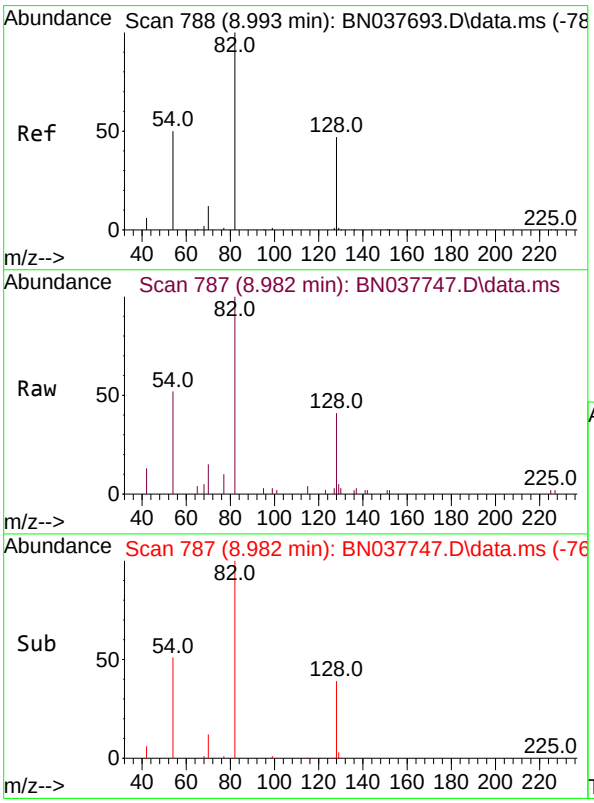

#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.637 min Scan# 94
Delta R.T. -0.011 min
Lab File: BN037747.D
Acq: 17 Sep 2025 15:47

**Instrument :**
BNA_N
**ClientSampleId :**
MW305I-20250908

Tgt Ion:136 Resp: 17307

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 136 | 100 | | |
| 137 | 11.4 | 9.1 | 13.7 |
| 54 | 9.3 | 6.3 | 9.5 |
| 68 | 7.1 | 5.0 | 7.4 |

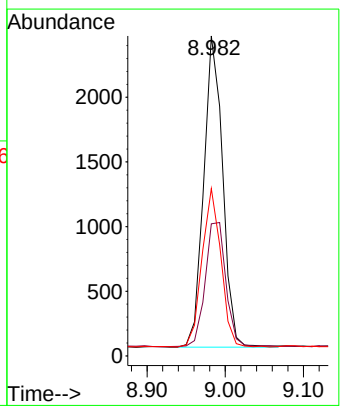


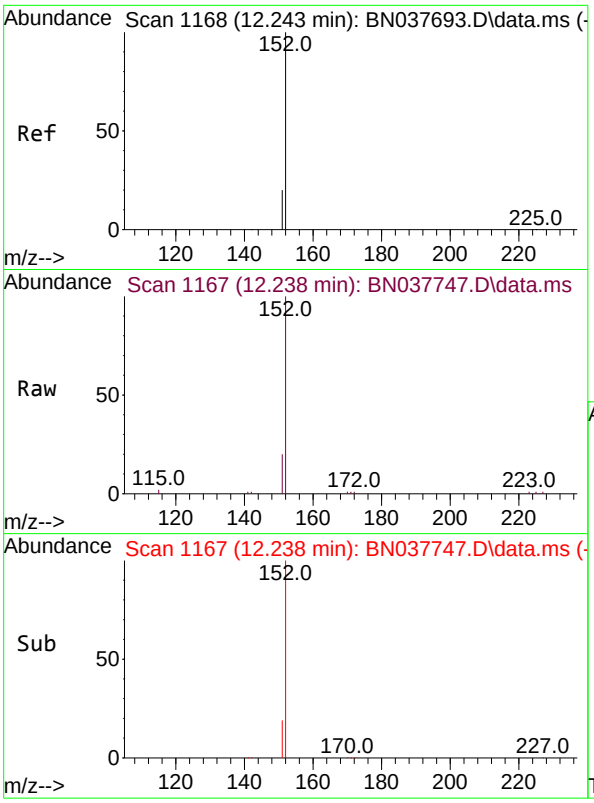




#8
Nitrobenzene-d5
Concen: 0.320 ng
RT: 8.982 min Scan# 787
Delta R.T. -0.011 min
Lab File: BN037747.D
Acq: 17 Sep 2025 15:47

Tgt Ion: 82 Resp: 4046

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 82 | 100 | | |
| 128 | 41.3 | 38.3 | 57.5 |
| 54 | 52.3 | 41.4 | 62.2 |



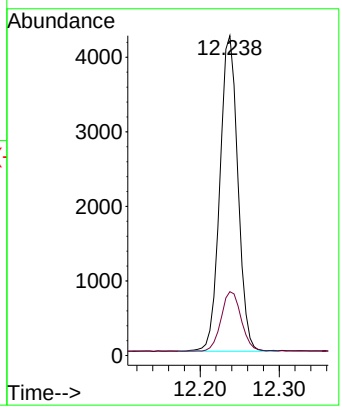


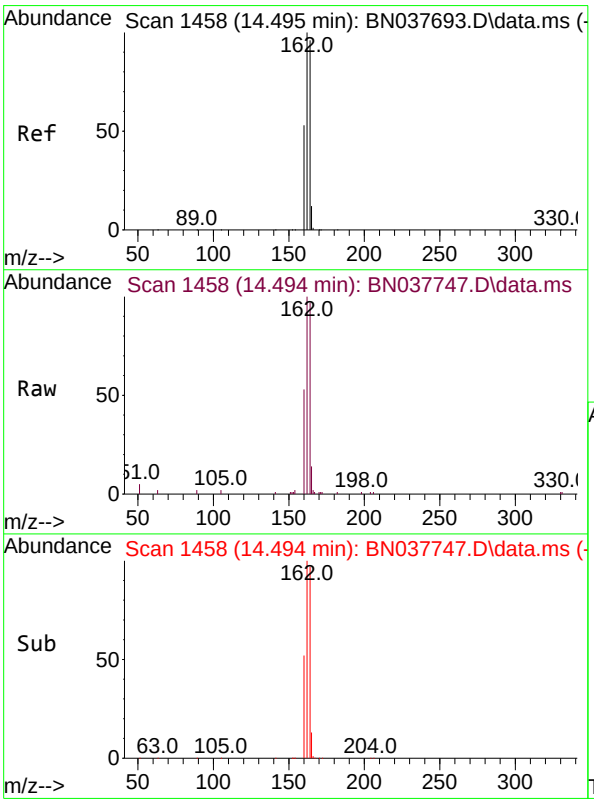

#11
2-Methylnaphthalene-d10
Concen: 0.290 ng
RT: 12.238 min Scan# 11
Delta R.T. -0.005 min
Lab File: BN037747.D
Acq: 17 Sep 2025 15:47

**Instrument :**
BNA_N
**ClientSampleId :**
MW305I-20250908

Tgt Ion:152 Resp: 6653

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

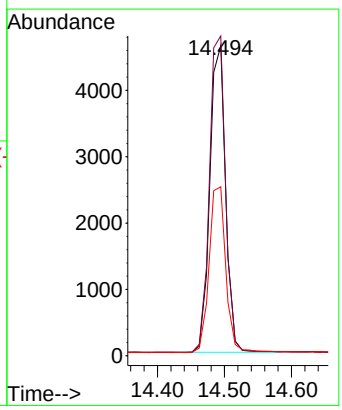


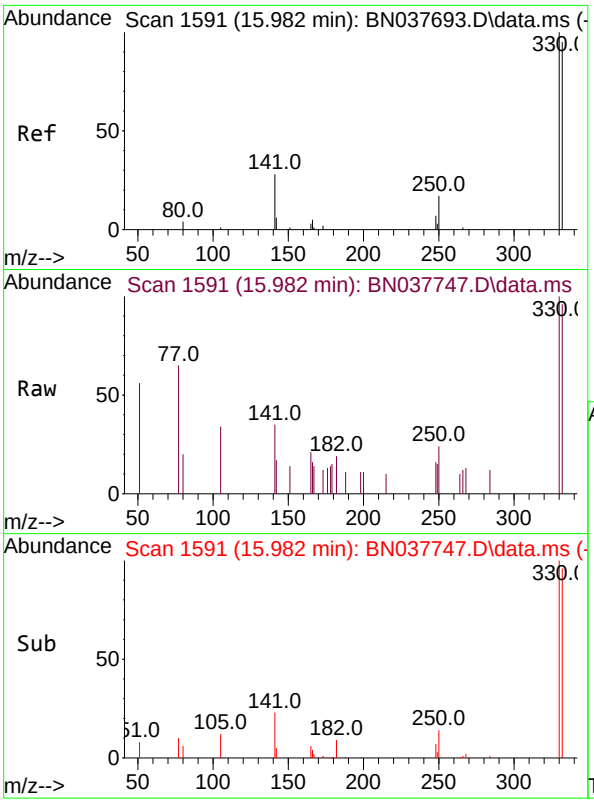




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.494 min Scan# 1458
Delta R.T. -0.000 min
Lab File: BN037747.D
Acq: 17 Sep 2025 15:47

Tgt Ion:164 Resp: 7564

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 164 | 100 | | |
| 162 | 103.2 | 83.1 | 124.7 |
| 160 | 54.5 | 44.3 | 66.5 |



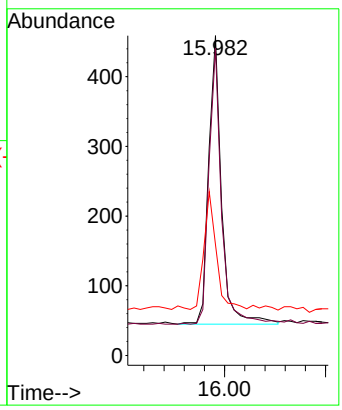


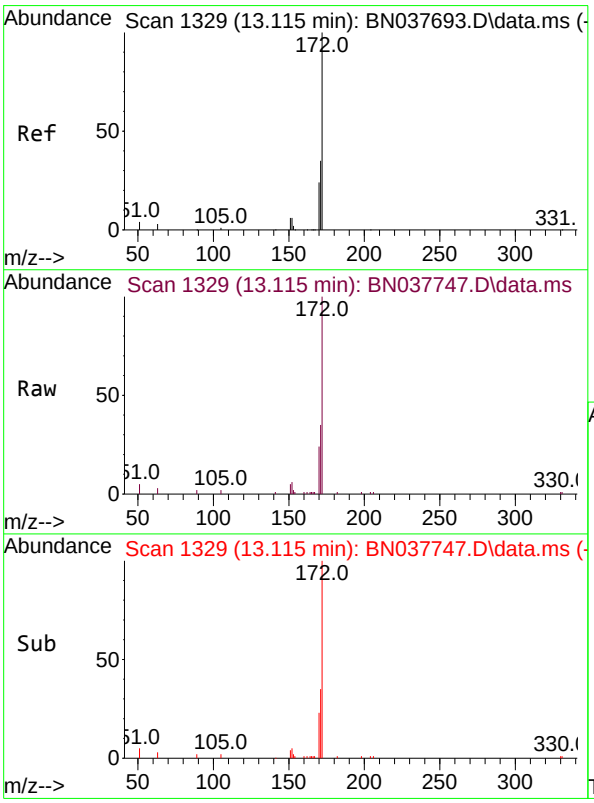

#14
2,4,6-Tribromophenol
Concen: 0.371 ng
RT: 15.982 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN037747.D
Acq: 17 Sep 2025 15:47

**Instrument :**
BNA_N
**ClientSampleId :**
MW305I-20250908

Tgt Ion:330 Resp: 732

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 330 | 100 | | |
| 332 | 93.6 | 75.3 | 112.9 |
| 141 | 38.9 | 35.0 | 52.4 |

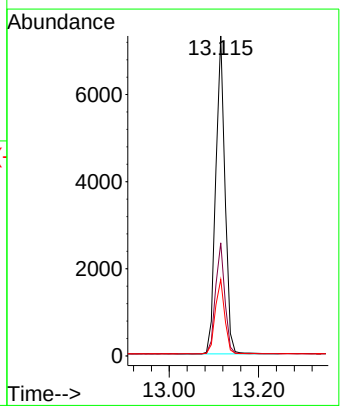


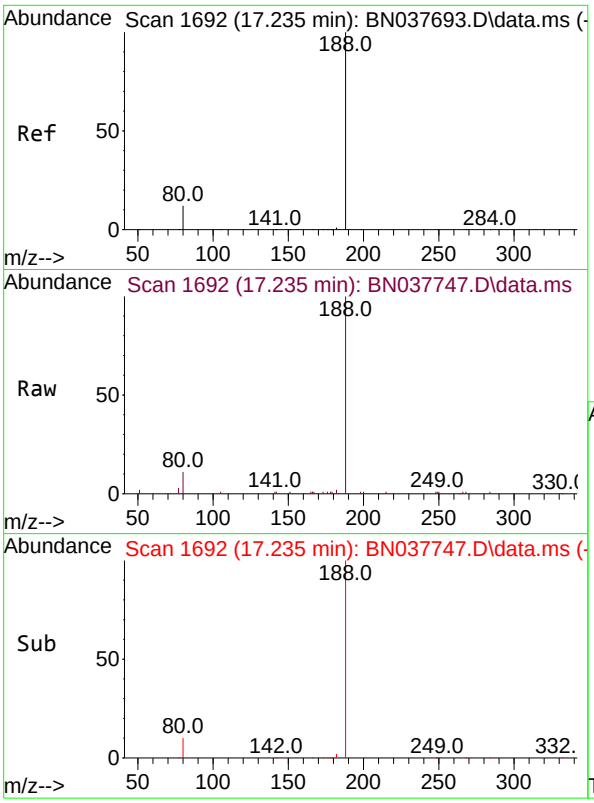




#15
2-Fluorobiphenyl
Concen: 0.332 ng
RT: 13.115 min Scan# 1329
Delta R.T. -0.000 min
Lab File: BN037747.D
Acq: 17 Sep 2025 15:47

Tgt Ion:172 Resp: 10498

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 172 | 100 | | |
| 171 | 35.3 | 28.6 | 43.0 |
| 170 | 23.9 | 19.8 | 29.8 |



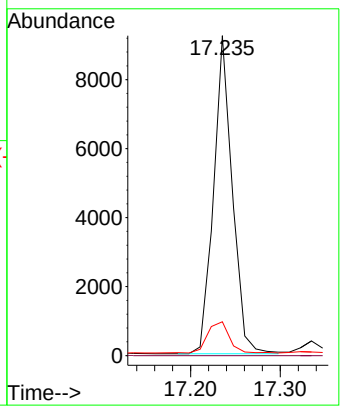


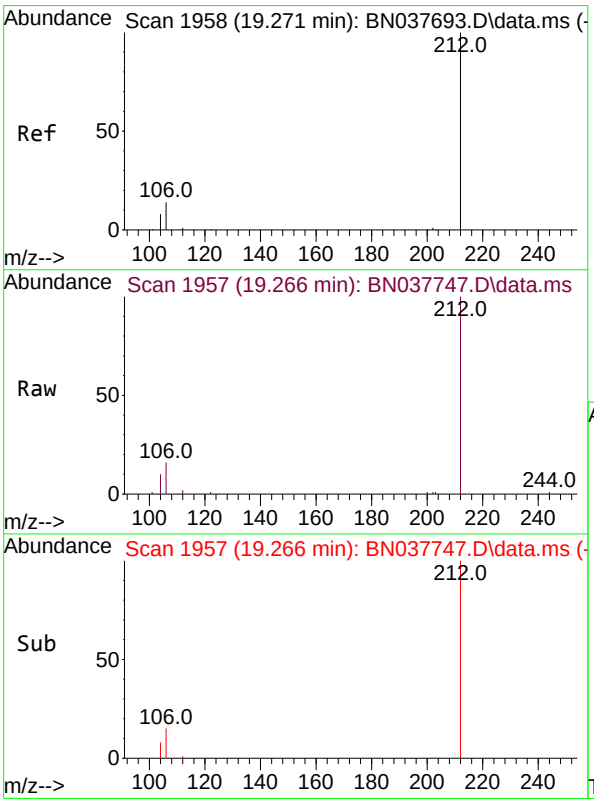

#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.235 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN037747.D
Acq: 17 Sep 2025 15:47

**Instrument :**
BNA_N
**ClientSampleId :**
MW305I-20250908

Tgt Ion:188 Resp: 13404

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 188 | 100 | | |
| 94 | 0.0 | 0.0 | 0.0 |
| 80 | 10.6 | 10.6 | 15.8 |

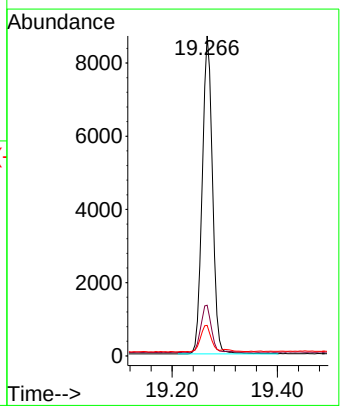


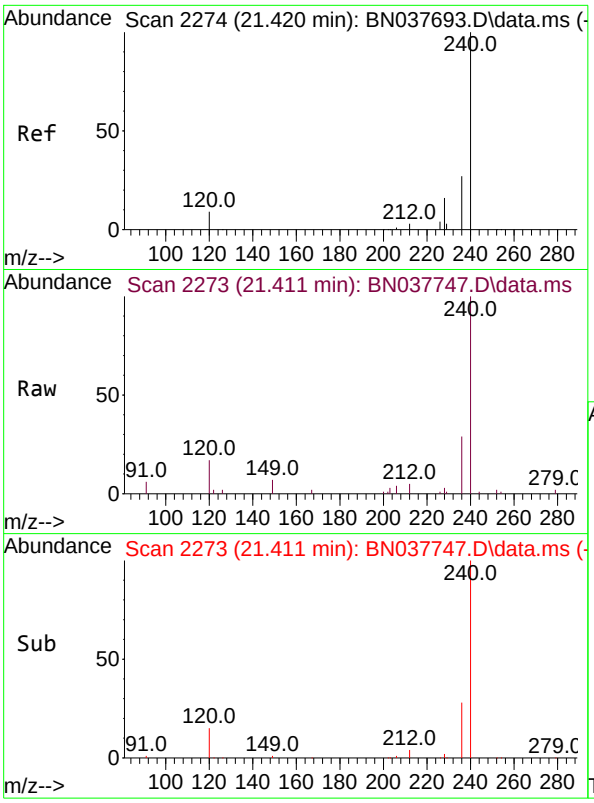




#27
Fluoranthene-d10
Concen: 0.350 ng
RT: 19.266 min Scan# 1957
Delta R.T. -0.005 min
Lab File: BN037747.D
Acq: 17 Sep 2025 15:47

Tgt Ion:212 Resp: 11763

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 212 | 100 | | |
| 106 | 15.2 | 12.2 | 18.2 |
| 104 | 8.5 | 6.9 | 10.3 |



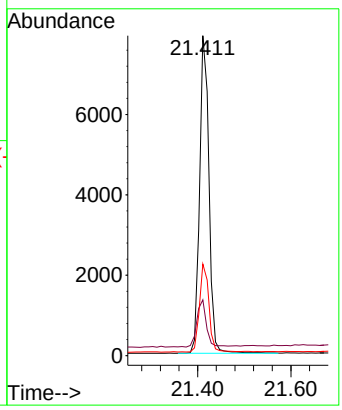


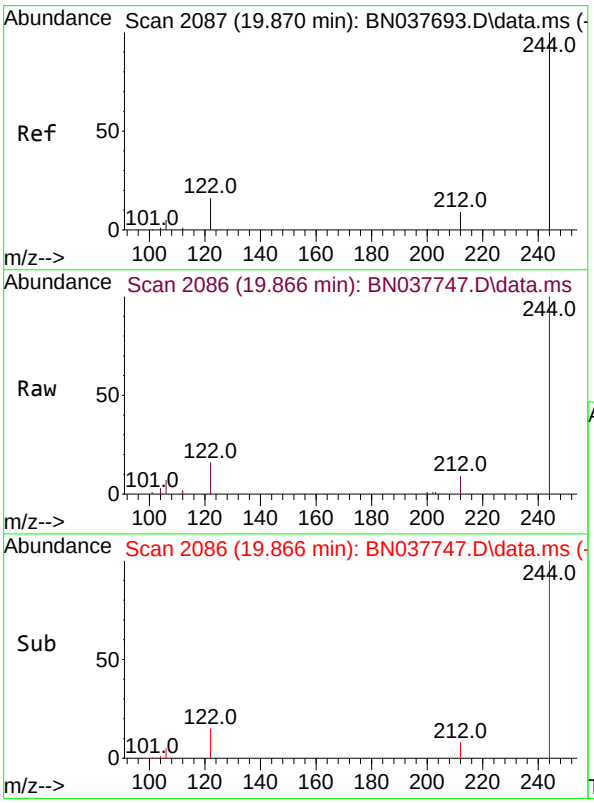

#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.411 min Scan# 2
Delta R.T. -0.009 min
Lab File: BN037747.D
Acq: 17 Sep 2025 15:47

**Instrument :**
BNA_N
**ClientSampleId :**
MW305I-20250908

Tgt Ion:240 Resp: 10925

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 240 | 100 | | |
| 120 | 17.4 | 9.2 | 13.8# |
| 236 | 28.6 | 22.6 | 33.8 |

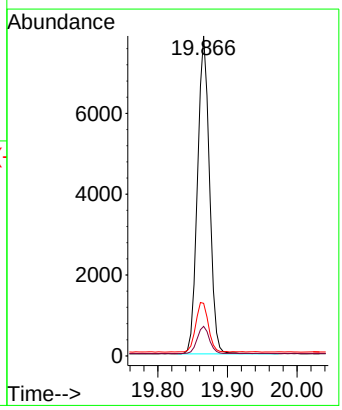


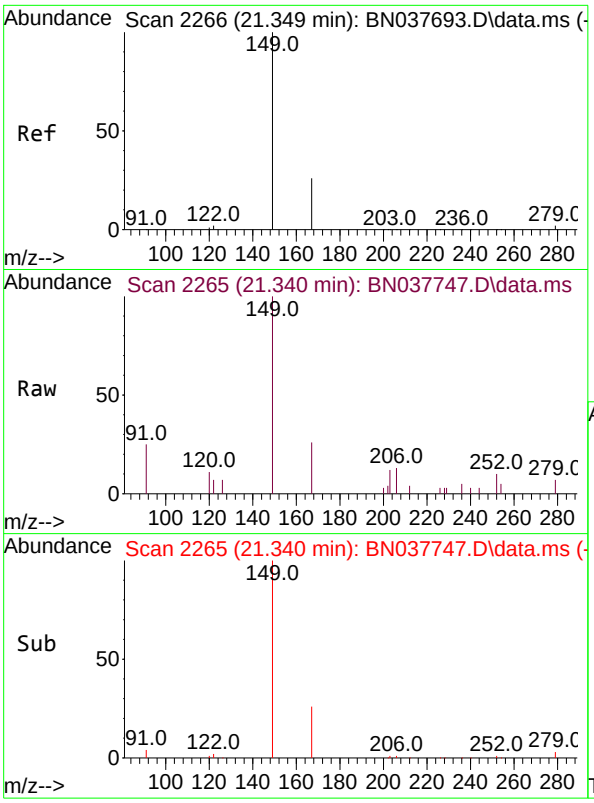




#31
Terphenyl-d14
Concen: 0.422 ng
RT: 19.866 min Scan# 2086
Delta R.T. -0.005 min
Lab File: BN037747.D
Acq: 17 Sep 2025 15:47

Tgt Ion:244 Resp: 9368

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 244 | 100 | | |
| 212 | 9.2 | 7.5 | 11.3 |
| 122 | 16.4 | 13.2 | 19.8 |



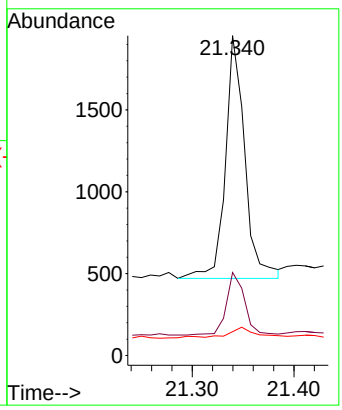


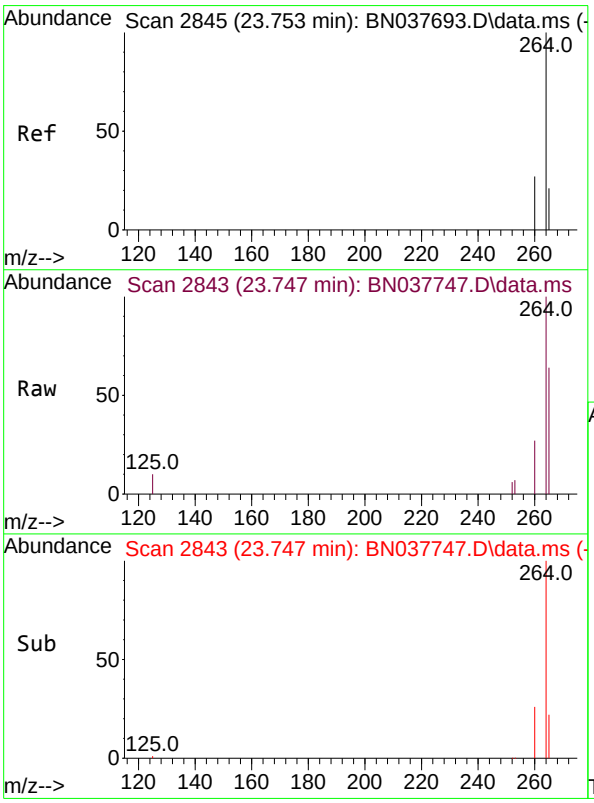

#34
Bis(2-ethylhexyl)phthalate
Concen: 0.174 ng
RT: 21.340 min Scan# 2
Delta R.T. -0.009 min
Lab File: BN037747.D
Acq: 17 Sep 2025 15:47

**Instrument :**
BNA_N
**ClientSampleId :**
MW305I-20250908

Tgt Ion:149 Resp: 1967

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 149 | 100 | | |
| 167 | 24.3 | 20.8 | 31.2 |
| 279 | 6.1 | 3.3 | 4.9# |

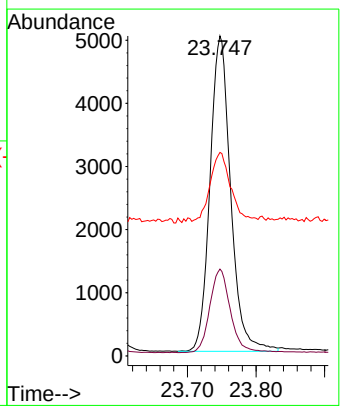


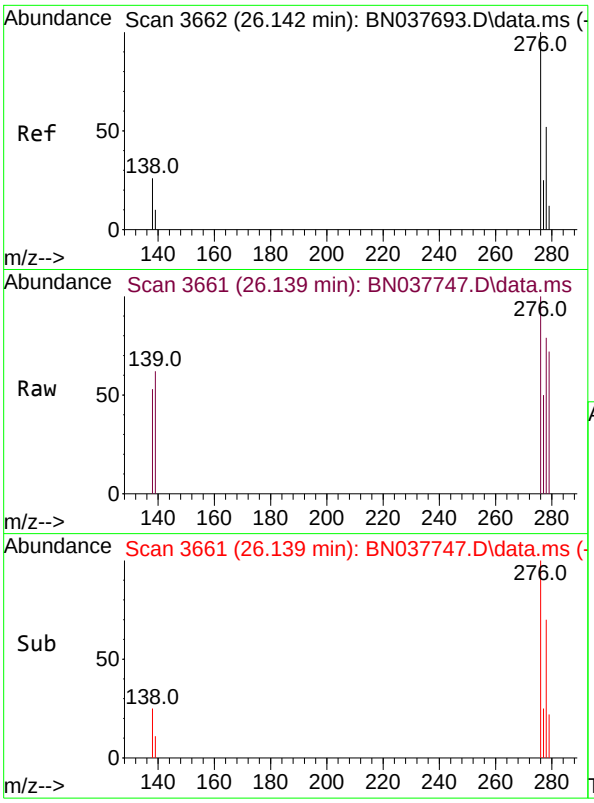




#35
Perylene-d12
Concen: 0.400 ng
RT: 23.747 min Scan# 2843
Delta R.T. -0.006 min
Lab File: BN037747.D
Acq: 17 Sep 2025 15:47

Tgt Ion:264 Resp: 10440

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 264 | 100 | | |
| 260 | 27.1 | 21.8 | 32.8 |
| 265 | 63.6 | 39.4 | 59.2# |



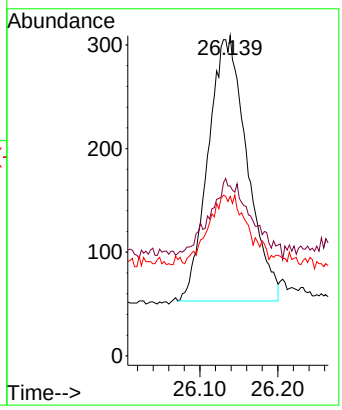



#36
Indeno(1,2,3-cd)pyrene
Concen: 0.020 ng
RT: 26.139 min Scan# 3
Delta R.T. -0.003 min
Lab File: BN037747.D
Acq: 17 Sep 2025 15:47

**Instrument :**
BNA_N
**ClientSampleId :**
MW305I-20250908

Tgt Ion:276 Resp: 885

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 276 | 100 | | |
| 138 | 28.8 | 21.9 | 32.9 |
| 277 | 13.2 | 20.1 | 30.1# |



Raw Data: **BN037748.D**

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

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | AECOM Technical Services, Inc. | Date Collected: | 09/08/25 |
| Project: | NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258 | Date Received: | 09/12/25 |
| Client Sample ID: | MW179D-20250908 | SDG No.: | Q3095 |
| Lab Sample ID: | Q3095-02 | Matrix: | Water |
| Analytical Method: | SW8270ESIM | % Solid: | 0 |
| Sample Wt/Vol: | 1000 Units: mL | Final Vol: | 1000 uL |
| Soil Aliquot Vol: | uL | Test: | SVOC-SIMGroup1 |
| Extraction Type : | Decanted : N | Level : | LOW |
| Injection Volume : | GPC Factor : 1.0 | GPC Cleanup : | N PH : |
| Prep Method : | | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| BN037748.D | 1 | 09/15/25 10:15 | 09/17/25 16:24 | PB169692 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOD | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | | |
| 123-91-1 | 1,4-Dioxane | 0.16 | J | 0.070 | 0.20 | 0.20 | ug/L |
| **SURROGATES** | | | | | | | |
| 7297-45-2 | 2-Methylnaphthalene-d10 | 0.32 | | 30 - 150 | | 80% | SPK: 0.4 |
| 93951-69-0 | Fluoranthene-d10 | 0.35 | | 30 - 150 | | 88% | SPK: 0.4 |
| 4165-60-0 | Nitrobenzene-d5 | 0.35 | | 55 - 111 | | 86% | SPK: 0.4 |
| 321-60-8 | 2-Fluorobiphenyl | 0.37 | | 53 - 106 | | 91% | SPK: 0.4 |
| 1718-51-0 | Terphenyl-d14 | 0.42 | | 58 - 132 | | 105% | SPK: 0.4 |
| **INTERNAL STANDARDS** | | | | | | | |
| 3855-82-1 | 1,4-Dichlorobenzene-d4 | 6620 | 7.84 | | | | |
| 1146-65-2 | Naphthalene-d8 | 18100 | 10.637 | | | | |
| 15067-26-2 | Acenaphthene-d10 | 8080 | 14.494 | | | | |
| 1517-22-2 | Phenanthrene-d10 | 13900 | 17.235 | | | | |
| 1719-03-5 | Chrysene-d12 | 11000 | 21.411 | | | | |
| 1520-96-3 | Perylene-d12 | 10700 | 23.75 | | | | |

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\BN091725\
Data File : BN037748.D
Acq On : 17 Sep 2025 16:24
Operator : RC/JU
Sample : Q3095-02
Misc :
ALS Vial : 10 Sample Multiplier: 1

**Instrument :**
BNA_N
**ClientSampleId :**
MW179D-20250908

Quant Time: Sep 17 16:56:14 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN091125.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Sep 11 14:20:01 2025
Response via : Initial Calibration

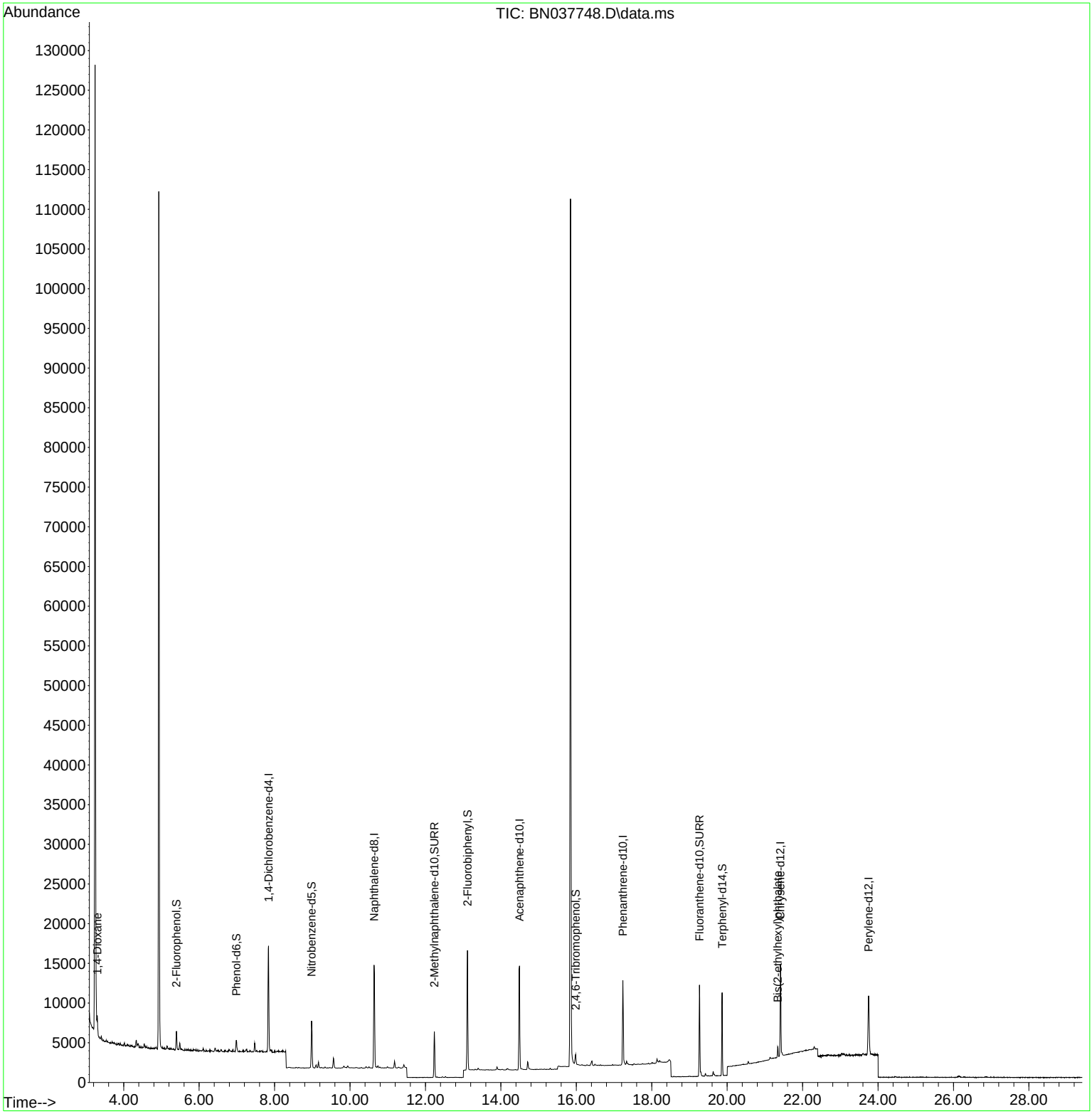
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) 1,4-Dichlorobenzene-d4 | 7.840 | 152 | 6623 | 0.400 | ng | 0.00 |
| 7) Naphthalene-d8 | 10.637 | 136 | 18145 | 0.400 | ng | -0.01 |
| 13) Acenaphthene-d10 | 14.494 | 164 | 8084 | 0.400 | ng | 0.00 |
| 19) Phenanthrene-d10 | 17.235 | 188 | 13859 | 0.400 | ng | 0.00 |
| 29) Chrysene-d12 | 21.411 | 240 | 11041 | 0.400 | ng | # 0.00 |
| 35) Perylene-d12 | 23.750 | 264 | 10735 | 0.400 | ng | # 0.00 |
| System Monitoring Compounds | | | | | | |
| 4) 2-Fluorophenol | 5.399 | 112 | 1851 | 0.122 | ng | 0.00 |
| 5) Phenol-d6 | 6.988 | 99 | 1355 | 0.069 | ng | 0.00 |
| 8) Nitrobenzene-d5 | 8.982 | 82 | 4579 | 0.345 | ng | -0.01 |
| 11) 2-Methylnaphthalene-d10 | 12.238 | 152 | 7689 | 0.320 | ng | 0.00 |
| 14) 2,4,6-Tribromophenol | 15.982 | 330 | 820 | 0.389 | ng | 0.00 |
| 15) 2-Fluorobiphenyl | 13.115 | 172 | 12379 | 0.366 | ng | 0.00 |
| 27) Fluoranthene-d10 | 19.266 | 212 | 12259 | 0.352 | ng | 0.00 |
| 31) Terphenyl-d14 | 19.866 | 244 | 9456 | 0.422 | ng | 0.00 |
| Target Compounds | | | | | | Qvalue |
| 2) 1,4-Dioxane | 3.304 | 88 | 1113 | 0.161 | ng | # 89 |
| 34) Bis(2-ethylhexyl)phtha... | 21.339 | 149 | 1495 | 0.131 | ng | # 97 |

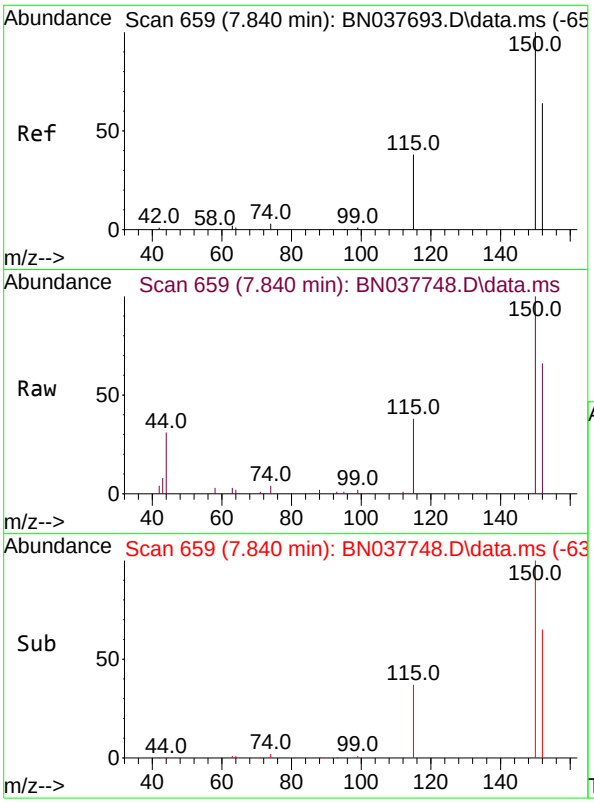
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN091725\
Data File : BN037748.D
Acq On : 17 Sep 2025 16:24
Operator : RC/JU
Sample : Q3095-02
Misc :
ALS Vial : 10 Sample Multiplier: 1

**Instrument :**
BNA_N
**ClientSampleId :**
MW179D-20250908

Quant Time: Sep 17 16:56:14 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN091125.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Sep 11 14:20:01 2025
Response via : Initial Calibration



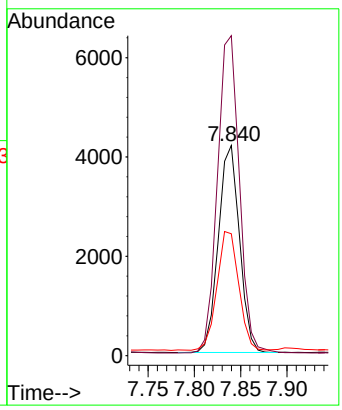


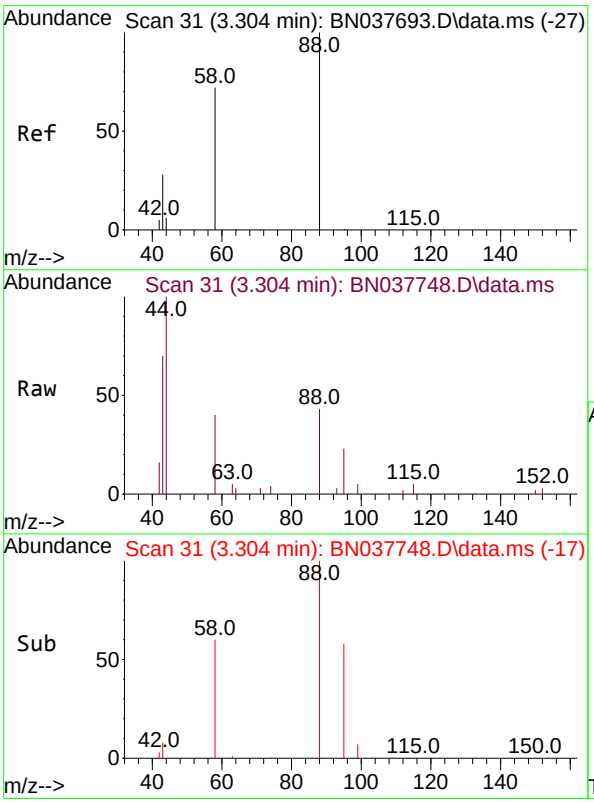

#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.840 min Scan# 6
Delta R.T. -0.000 min
Lab File: BN037748.D
Acq: 17 Sep 2025 16:24

**Instrument :**
BNA_N
**ClientSampleId :**
MW179D-20250908

Tgt Ion:152 Resp: 6623

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 150 | 152.3 | 124.5 | 186.7 |
| 115 | 58.0 | 49.2 | 73.8 |

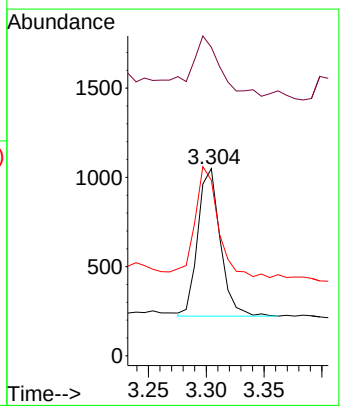


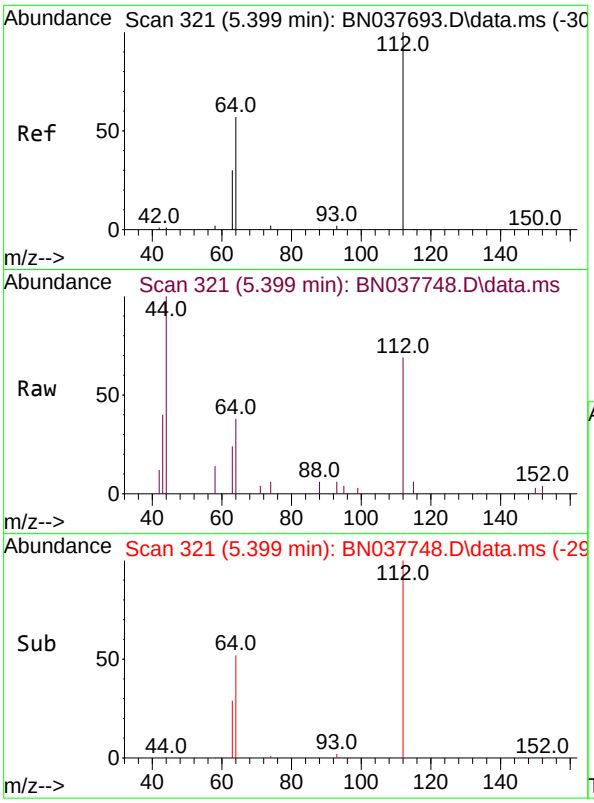




#2
1,4-Dioxane
Concen: 0.161 ng
RT: 3.304 min Scan# 31
Delta R.T. -0.000 min
Lab File: BN037748.D
Acq: 17 Sep 2025 16:24

Tgt Ion: 88 Resp: 1113

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 88 | 100 | | |
| 43 | 52.4 | 26.8 | 40.2# |
| 58 | 78.7 | 61.9 | 92.9 |



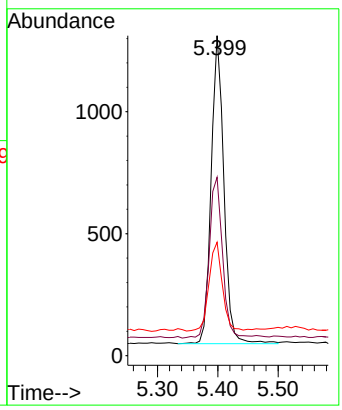


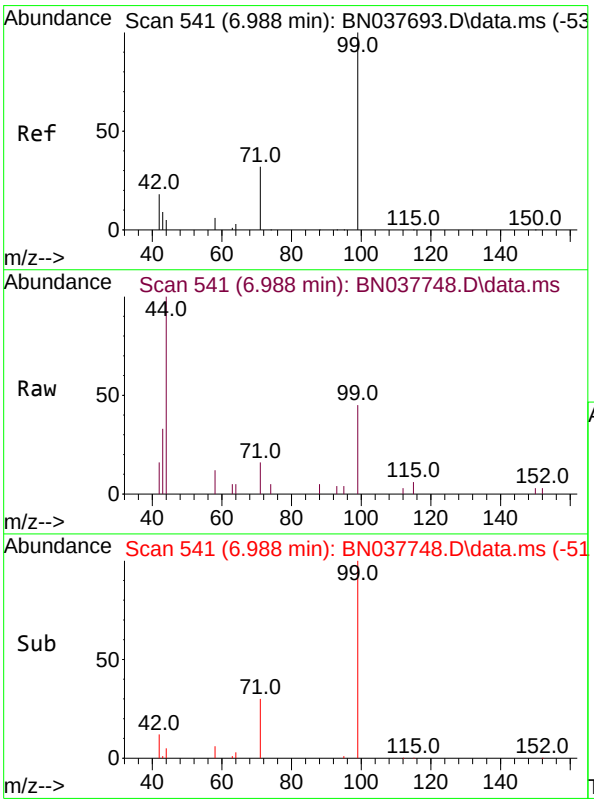

#4
2-Fluorophenol
Concen: 0.122 ng
RT: 5.399 min Scan# 3
Delta R.T. -0.000 min
Lab File: BN037748.D
Acq: 17 Sep 2025 16:24

**Instrument :**
BNA_N
**ClientSampleId :**
MW179D-20250908

Tgt Ion:112 Resp: 1851

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 112 | 100 | | |
| 64 | 54.7 | 44.9 | 67.3 |
| 63 | 30.0 | 24.7 | 37.1 |

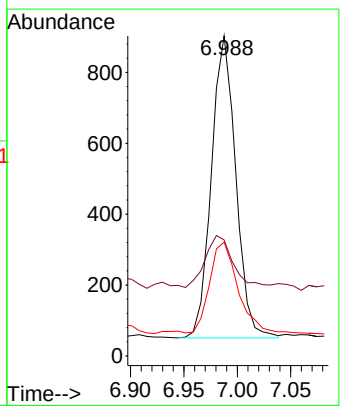


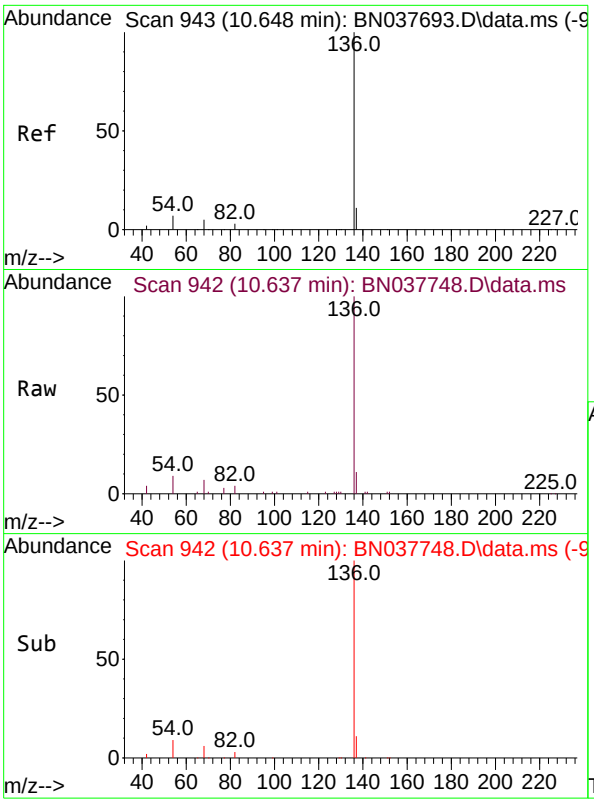




#5
Phenol-d6
Concen: 0.069 ng
RT: 6.988 min Scan# 541
Delta R.T. -0.000 min
Lab File: BN037748.D
Acq: 17 Sep 2025 16:24

Tgt Ion: 99 Resp: 1355

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 99 | 100 | | |
| 42 | 20.7 | 16.6 | 24.8 |
| 71 | 36.5 | 26.7 | 40.1 |



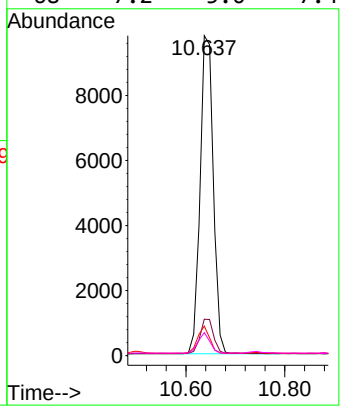


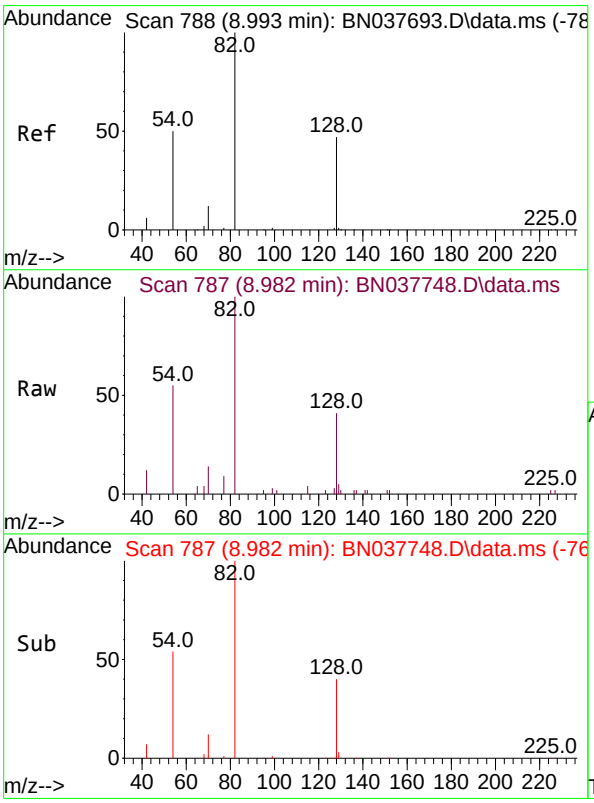

#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.637 min Scan# 94
Delta R.T. -0.011 min
Lab File: BN037748.D
Acq: 17 Sep 2025 16:24

**Instrument :**
BNA_N
**ClientSampleId :**
MW179D-20250908

Tgt Ion:136 Resp: 18145

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 136 | 100 | | |
| 137 | 11.4 | 9.1 | 13.7 |
| 54 | 9.2 | 6.3 | 9.5 |
| 68 | 7.2 | 5.0 | 7.4 |

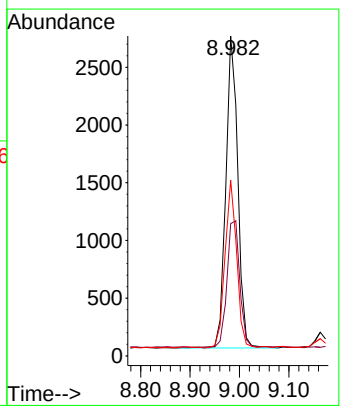


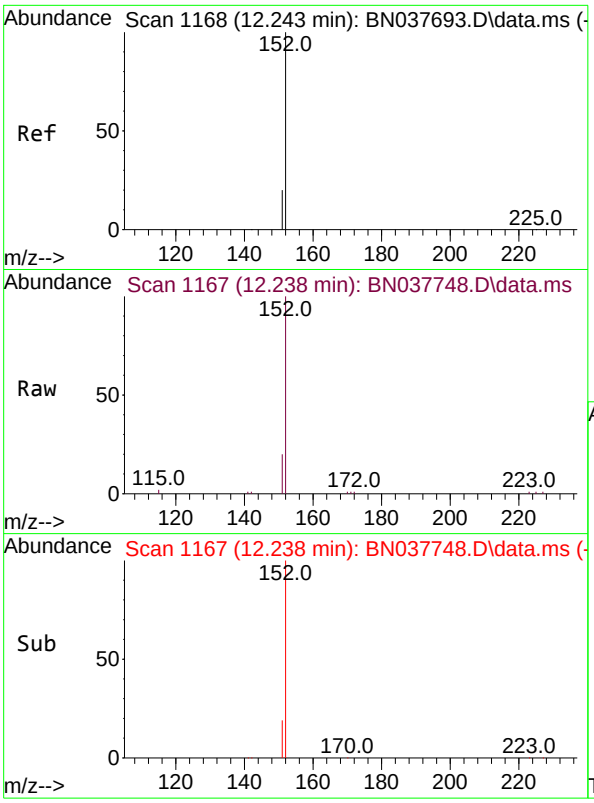




#8
Nitrobenzene-d5
Concen: 0.345 ng
RT: 8.982 min Scan# 787
Delta R.T. -0.011 min
Lab File: BN037748.D
Acq: 17 Sep 2025 16:24

Tgt Ion: 82 Resp: 4579

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 82 | 100 | | |
| 128 | 41.3 | 38.3 | 57.5 |
| 54 | 54.9 | 41.4 | 62.2 |



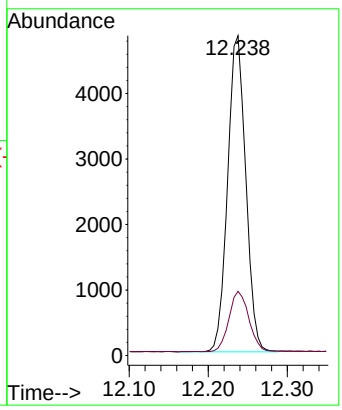


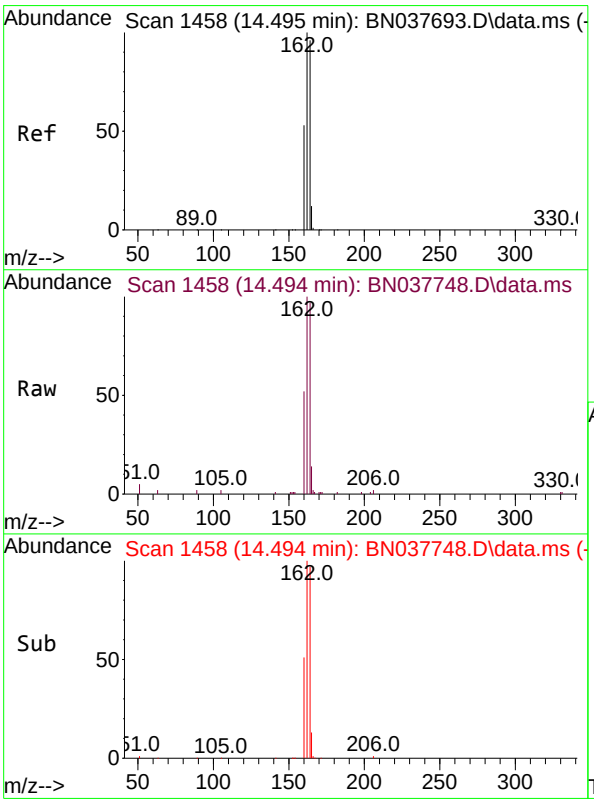

#11
2-Methylnaphthalene-d10
Concen: 0.320 ng
RT: 12.238 min Scan# 11
Delta R.T. -0.005 min
Lab File: BN037748.D
Acq: 17 Sep 2025 16:24

**Instrument :**
BNA_N
**ClientSampleId :**
MW179D-20250908

Tgt Ion:152 Resp: 7689

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 151 | 21.1 | 17.0 | 25.6 |

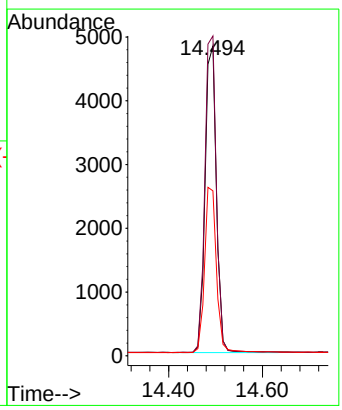


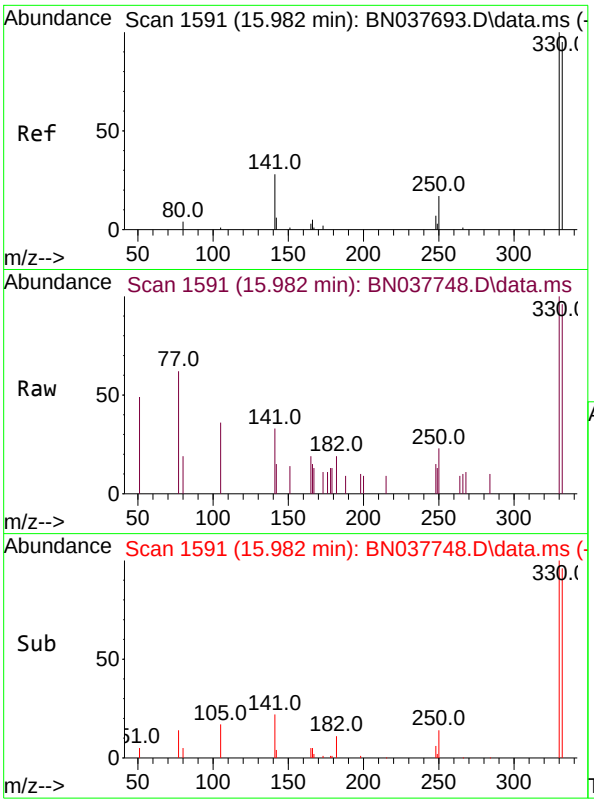




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.494 min Scan# 1458
Delta R.T. -0.000 min
Lab File: BN037748.D
Acq: 17 Sep 2025 16:24

Tgt Ion:164 Resp: 8084

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 164 | 100 | | |
| 162 | 103.3 | 83.1 | 124.7 |
| 160 | 53.3 | 44.3 | 66.5 |



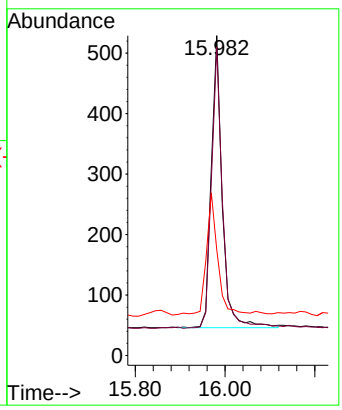


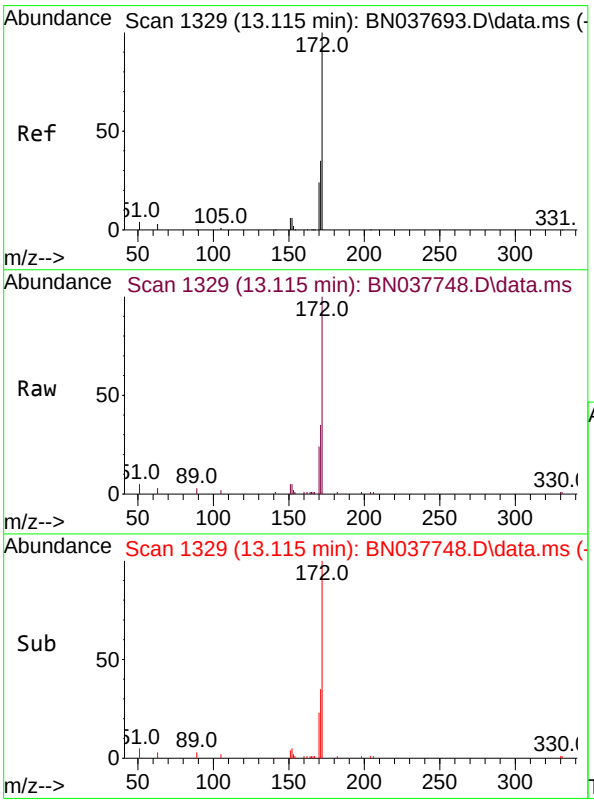

#14
2,4,6-Tribromophenol
Concen: 0.389 ng
RT: 15.982 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN037748.D
Acq: 17 Sep 2025 16:24

**Instrument :**
BNA_N
**ClientSampleId :**
MW179D-20250908

Tgt Ion:330 Resp: 820

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 330 | 100 | | |
| 332 | 98.2 | 75.3 | 112.9 |
| 141 | 42.6 | 35.0 | 52.4 |

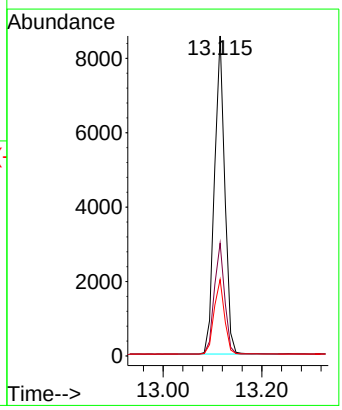


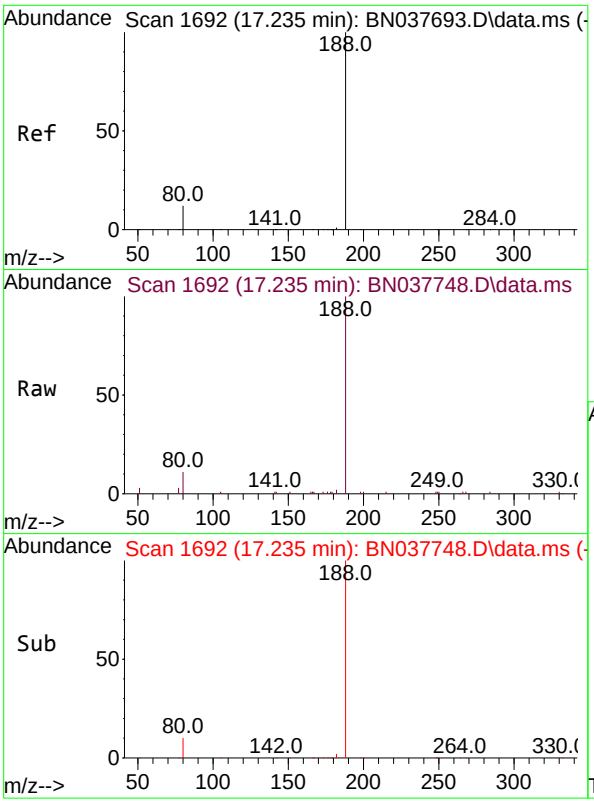




#15
2-Fluorobiphenyl
Concen: 0.366 ng
RT: 13.115 min Scan# 1329
Delta R.T. -0.000 min
Lab File: BN037748.D
Acq: 17 Sep 2025 16:24

Tgt Ion:172 Resp: 12379

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 172 | 100 | | |
| 171 | 35.2 | 28.6 | 43.0 |
| 170 | 23.9 | 19.8 | 29.8 |



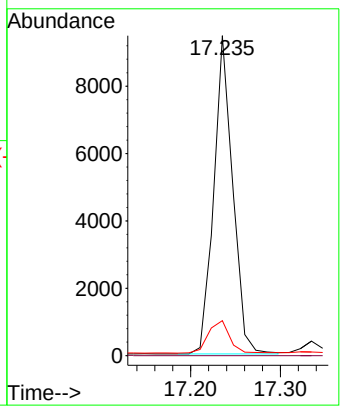


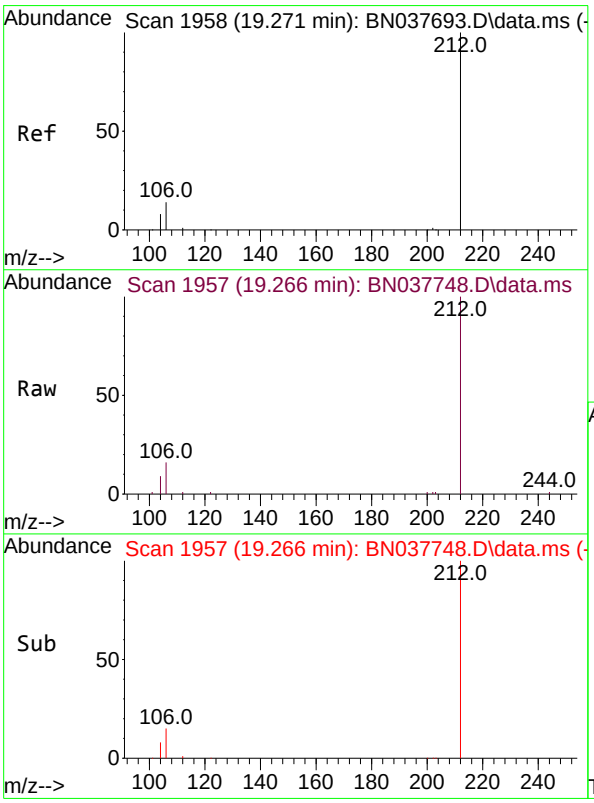

#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.235 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN037748.D
Acq: 17 Sep 2025 16:24

**Instrument :**
BNA_N
**ClientSampleId :**
MW179D-20250908

Tgt Ion:188 Resp: 13859

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 188 | 100 | | |
| 94 | 0.0 | 0.0 | 0.0 |
| 80 | 10.9 | 10.6 | 15.8 |

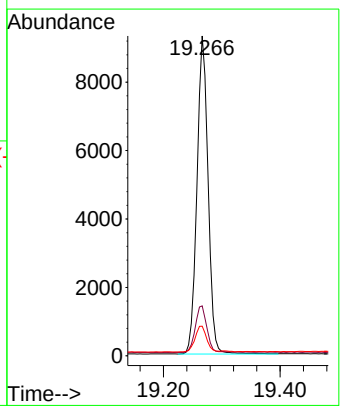


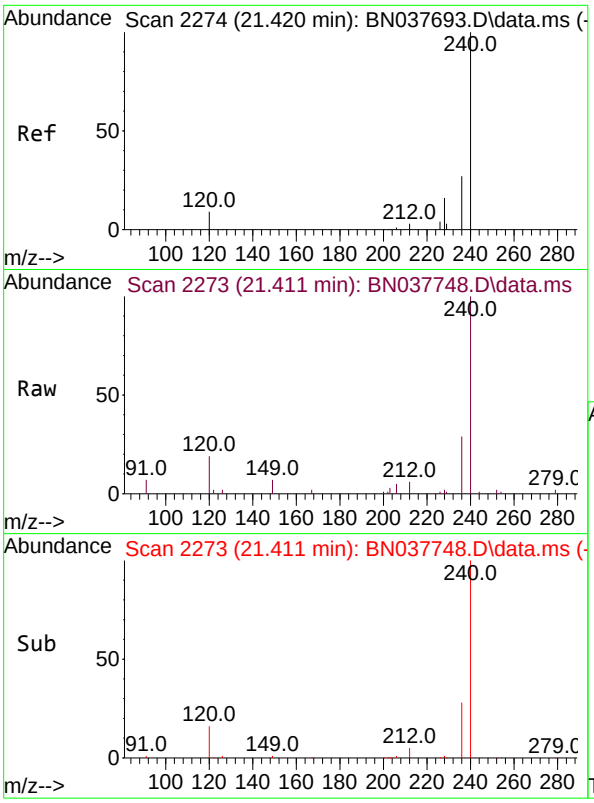




#27
Fluoranthene-d10
Concen: 0.352 ng
RT: 19.266 min Scan# 1957
Delta R.T. -0.005 min
Lab File: BN037748.D
Acq: 17 Sep 2025 16:24

Tgt Ion:212 Resp: 12259

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 212 | 100 | | |
| 106 | 15.5 | 12.2 | 18.2 |
| 104 | 8.5 | 6.9 | 10.3 |



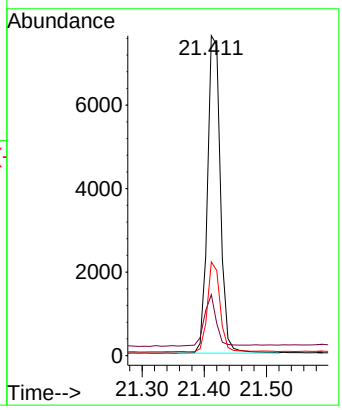


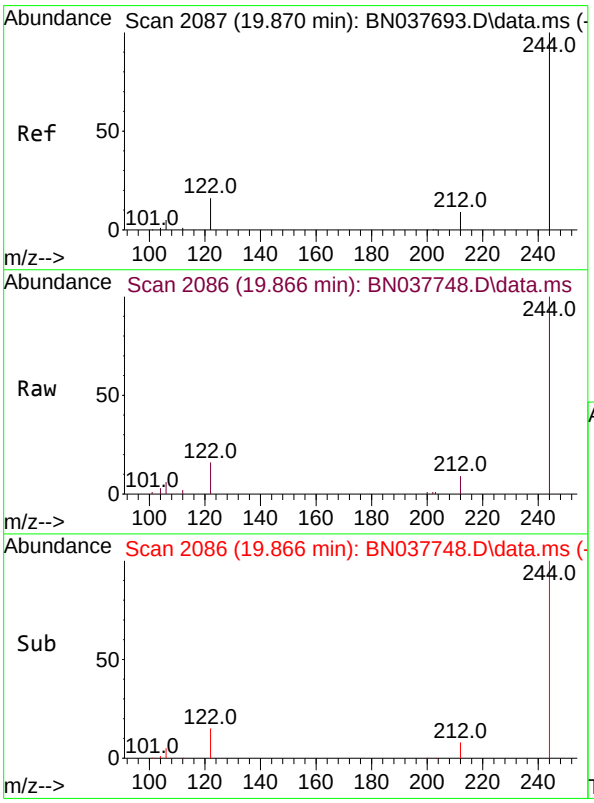

#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.411 min Scan# 2
Delta R.T. -0.009 min
Lab File: BN037748.D
Acq: 17 Sep 2025 16:24

**Instrument :**
BNA_N
**ClientSampleId :**
MW179D-20250908

Tgt Ion:240 Resp: 11041

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 240 | 100 | | |
| 120 | 19.0 | 9.2 | 13.8# |
| 236 | 29.3 | 22.6 | 33.8 |

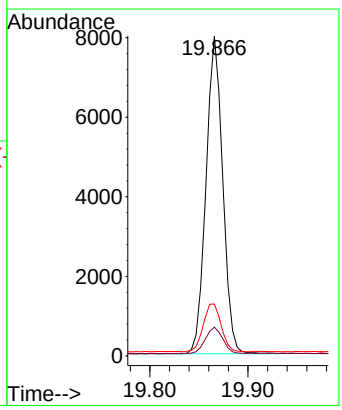


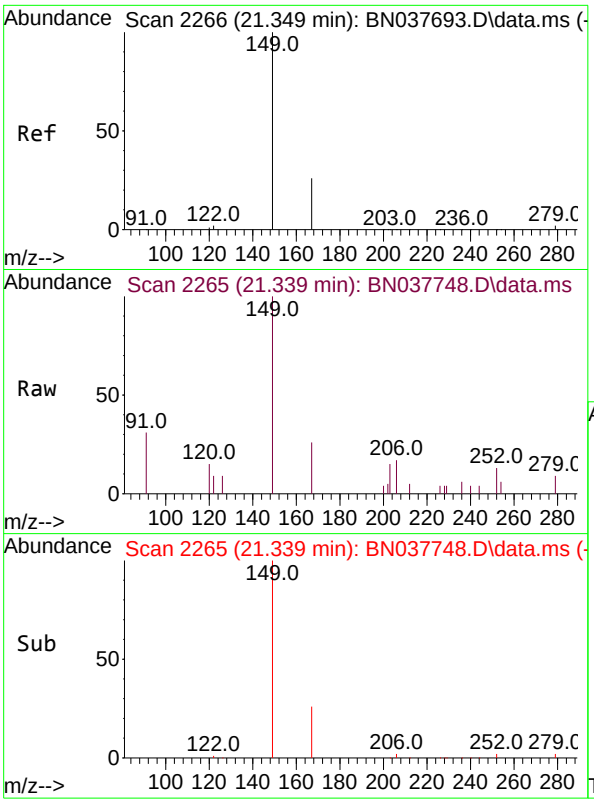




#31
Terphenyl-d14
Concen: 0.422 ng
RT: 19.866 min Scan# 2086
Delta R.T. -0.005 min
Lab File: BN037748.D
Acq: 17 Sep 2025 16:24

Tgt Ion:244 Resp: 9456

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 244 | 100 | | |
| 212 | 9.0 | 7.5 | 11.3 |
| 122 | 16.2 | 13.2 | 19.8 |



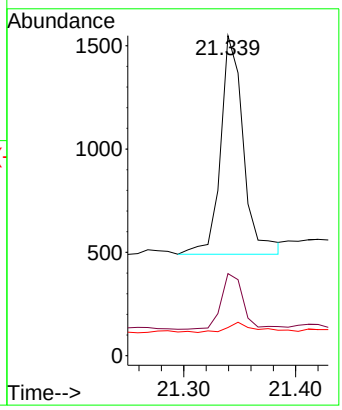


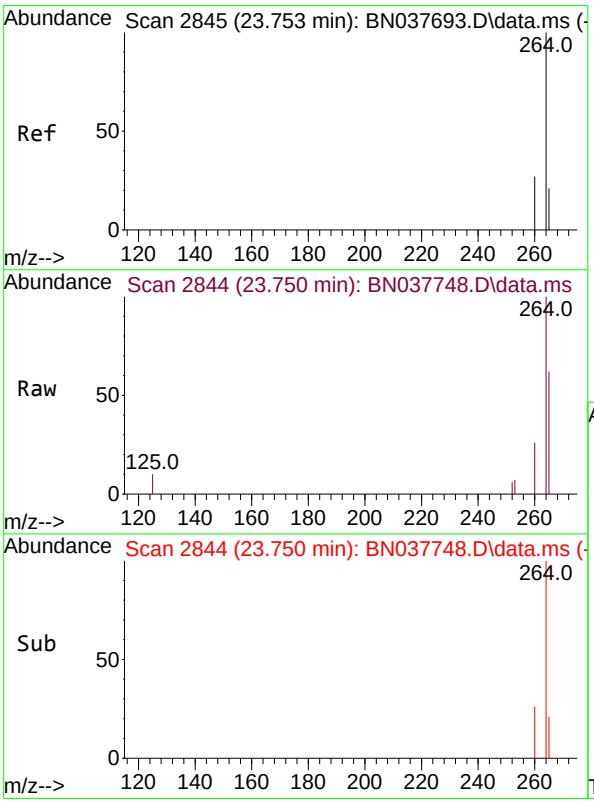

#34
Bis(2-ethylhexyl)phthalate
Concen: 0.131 ng
RT: 21.339 min Scan# 2
Delta R.T. -0.009 min
Lab File: BN037748.D
Acq: 17 Sep 2025 16:24

**Instrument :**
BNA_N
**ClientSampleId :**
MW179D-20250908

Tgt Ion:149 Resp: 1495

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 149 | 100 | | |
| 167 | 24.7 | 20.8 | 31.2 |
| 279 | 6.2 | 3.3 | 4.9# |

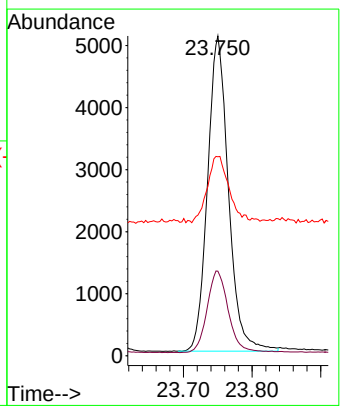



#35
Perylene-d12
Concen: 0.400 ng
RT: 23.750 min Scan# 2844
Delta R.T. -0.003 min
Lab File: BN037748.D
Acq: 17 Sep 2025 16:24

Tgt Ion:264 Resp: 10735

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 264 | 100 | | |
| 260 | 26.5 | 21.8 | 32.8 |
| 265 | 62.2 | 39.4 | 59.2# |



Raw Data: **BN037749.D**

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

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | AECOM Technical Services, Inc. | Date Collected: | 09/08/25 |
| Project: | NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258 | Date Received: | 09/12/25 |
| Client Sample ID: | MW201D-20250908 | SDG No.: | Q3095 |
| Lab Sample ID: | Q3095-03 | Matrix: | Water |
| Analytical Method: | SW8270ESIM | % Solid: | 0 |
| Sample Wt/Vol: | 1000 Units: mL | Final Vol: | 1000 uL |
| Soil Aliquot Vol: | uL | Test: | SVOC-SIMGroup1 |
| Extraction Type : | Decanted : N | Level : | LOW |
| Injection Volume : | GPC Factor : 1.0 | GPC Cleanup : | N PH : |
| Prep Method : | | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| BN037749.D | 1 | 09/15/25 10:15 | 09/17/25 17:00 | PB169692 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOD | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | | |
| 123-91-1 | 1,4-Dioxane | 5.90 | E | 0.070 | 0.20 | 0.20 | ug/L |
| **SURROGATES** | | | | | | | |
| 7297-45-2 | 2-Methylnaphthalene-d10 | 0.30 | | 30 - 150 | | 74% | SPK: 0.4 |
| 93951-69-0 | Fluoranthene-d10 | 0.36 | | 30 - 150 | | 91% | SPK: 0.4 |
| 4165-60-0 | Nitrobenzene-d5 | 0.33 | | 55 - 111 | | 82% | SPK: 0.4 |
| 321-60-8 | 2-Fluorobiphenyl | 0.33 | | 53 - 106 | | 83% | SPK: 0.4 |
| 1718-51-0 | Terphenyl-d14 | 0.39 | | 58 - 132 | | 98% | SPK: 0.4 |
| **INTERNAL STANDARDS** | | | | | | | |
| 3855-82-1 | 1,4-Dichlorobenzene-d4 | 6460 | 7.84 | | | | |
| 1146-65-2 | Naphthalene-d8 | 17400 | 10.637 | | | | |
| 15067-26-2 | Acenaphthene-d10 | 7810 | 14.495 | | | | |
| 1517-22-2 | Phenanthrene-d10 | 14100 | 17.235 | | | | |
| 1719-03-5 | Chrysene-d12 | 12200 | 21.411 | | | | |
| 1520-96-3 | Perylene-d12 | 12000 | 23.747 | | | | |

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\BN091725\
Data File : BN037749.D
Acq On : 17 Sep 2025 17:00
Operator : RC/JU
Sample : Q3095-03
Misc :
ALS Vial : 11 Sample Multiplier: 1

**Instrument :**
BNA_N
**ClientSampleId :**
MW201D-20250908

Quant Time: Sep 17 17:28:08 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN091125.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Sep 11 14:20:01 2025
Response via : Initial Calibration

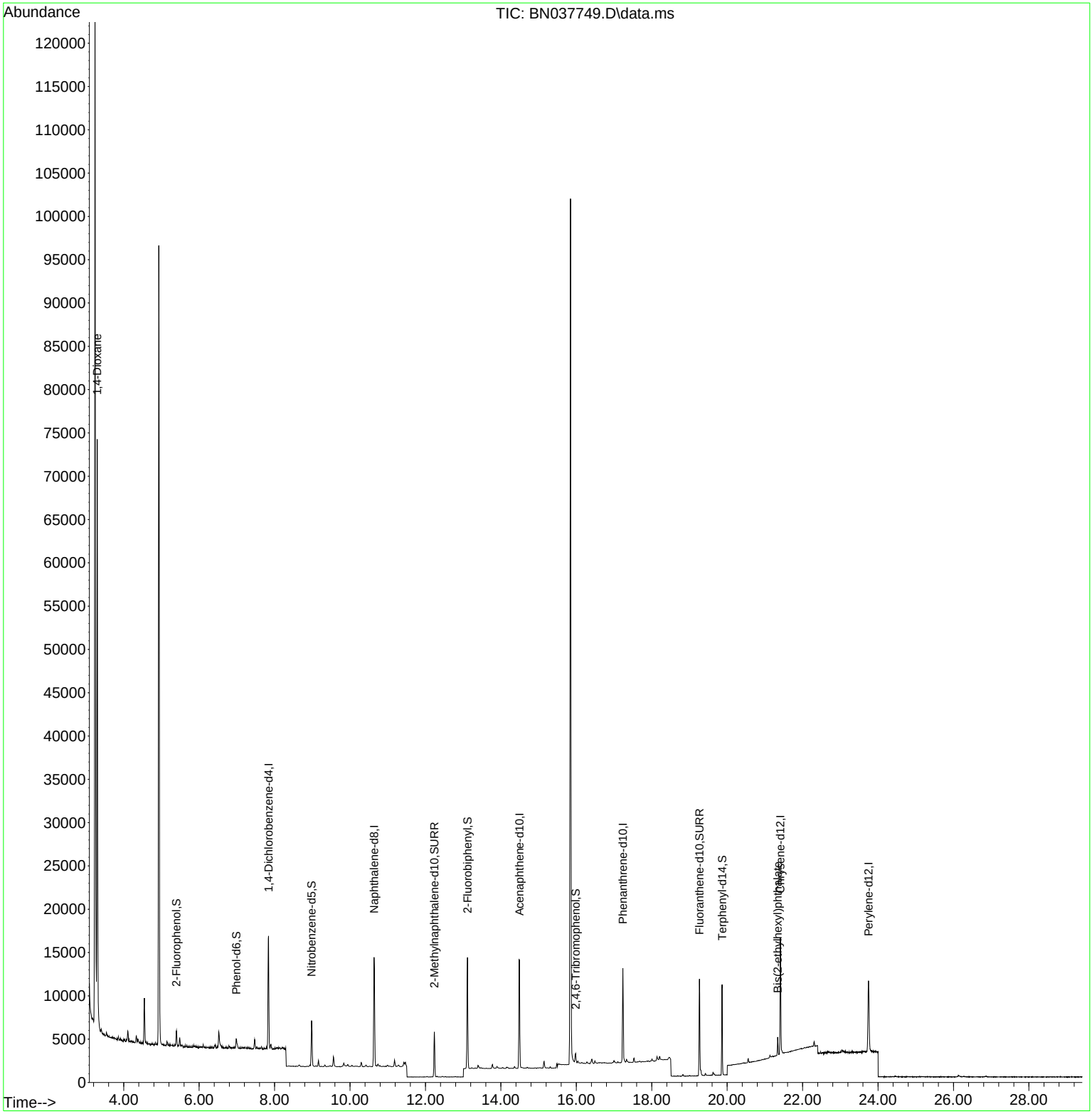
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) 1,4-Dichlorobenzene-d4 | 7.840 | 152 | 6464 | 0.400 | ng | 0.00 |
| 7) Naphthalene-d8 | 10.637 | 136 | 17423 | 0.400 | ng | -0.01 |
| 13) Acenaphthene-d10 | 14.495 | 164 | 7814 | 0.400 | ng | 0.00 |
| 19) Phenanthrene-d10 | 17.235 | 188 | 14079 | 0.400 | ng | # 0.00 |
| 29) Chrysene-d12 | 21.411 | 240 | 12160 | 0.400 | ng | # 0.00 |
| 35) Perylene-d12 | 23.747 | 264 | 12015 | 0.400 | ng | # 0.00 |
| System Monitoring Compounds | | | | | | |
| 4) 2-Fluorophenol | 5.399 | 112 | 1448 | 0.098 | ng | 0.00 |
| 5) Phenol-d6 | 6.988 | 99 | 1049 | 0.055 | ng | 0.00 |
| 8) Nitrobenzene-d5 | 8.982 | 82 | 4184 | 0.328 | ng | -0.01 |
| 11) 2-Methylnaphthalene-d10 | 12.238 | 152 | 6835 | 0.296 | ng | 0.00 |
| 14) 2,4,6-Tribromophenol | 15.982 | 330 | 696 | 0.342 | ng | 0.00 |
| 15) 2-Fluorobiphenyl | 13.115 | 172 | 10870 | 0.333 | ng | 0.00 |
| 27) Fluoranthene-d10 | 19.267 | 212 | 12815 | 0.363 | ng | 0.00 |
| 31) Terphenyl-d14 | 19.866 | 244 | 9711 | 0.393 | ng | 0.00 |
| Target Compounds | | | | | | Qvalue |
| 2) 1,4-Dioxane | 3.297 | 88 | 39911 | 5.928 | ng | 93 |
| 34) Bis(2-ethylhexyl)phtha... | 21.340 | 149 | 1977 | 0.157 | ng | 99 |

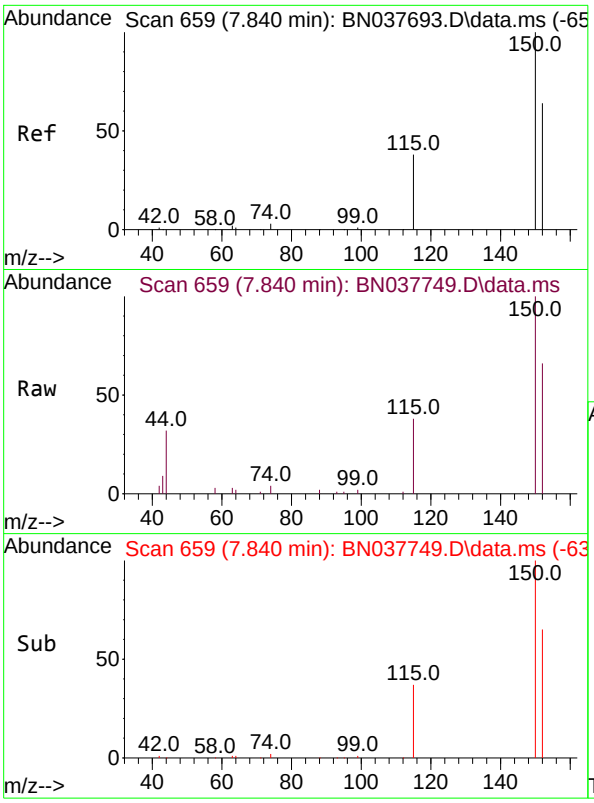
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN091725\
Data File : BN037749.D
Acq On : 17 Sep 2025 17:00
Operator : RC/JU
Sample : Q3095-03
Misc :
ALS Vial : 11 Sample Multiplier: 1

**Instrument :**
BNA_N
**ClientSampleId :**
MW201D-20250908

Quant Time: Sep 17 17:28:08 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN091125.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Sep 11 14:20:01 2025
Response via : Initial Calibration



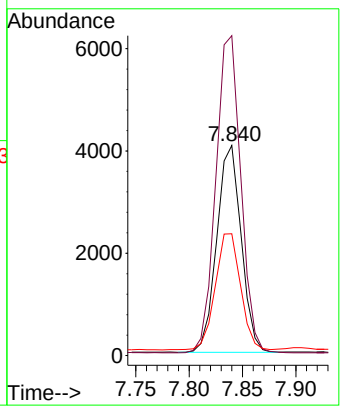


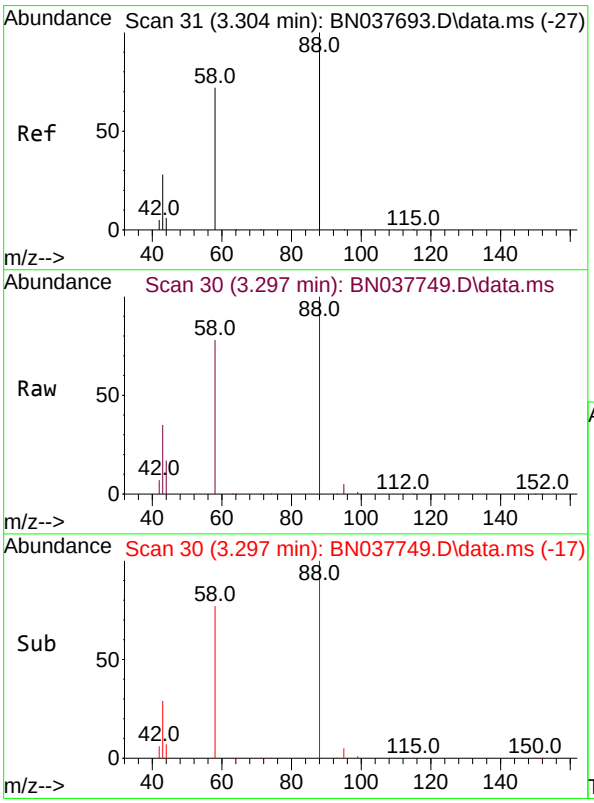

#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.840 min Scan# 6
Delta R.T. -0.000 min
Lab File: BN037749.D
Acq: 17 Sep 2025 17:00

**Instrument :**
BNA_N
**ClientSampleId :**
MW201D-20250908

Tgt Ion:152 Resp: 6464

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 150 | 152.3 | 124.5 | 186.7 |
| 115 | 57.9 | 49.2 | 73.8 |

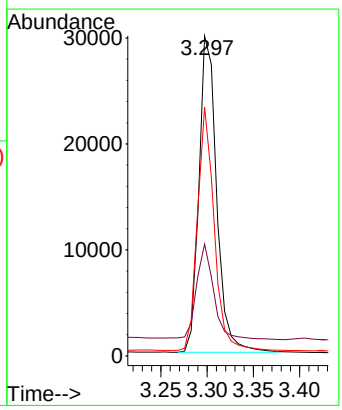


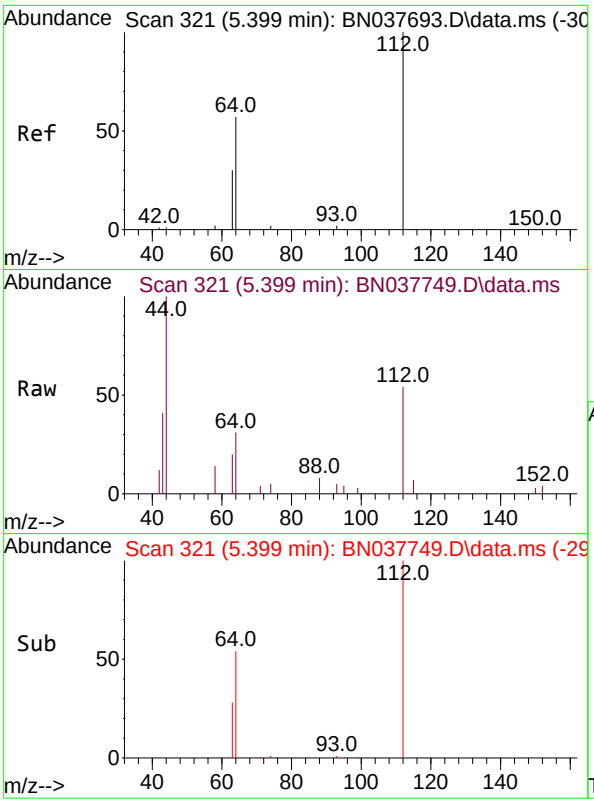




#2
1,4-Dioxane
Concen: 5.928 ng
RT: 3.297 min Scan# 30
Delta R.T. -0.007 min
Lab File: BN037749.D
Acq: 17 Sep 2025 17:00

Tgt Ion: 88 Resp: 39911

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 88 | 100 | | |
| 43 | 29.3 | 26.8 | 40.2 |
| 58 | 72.0 | 61.9 | 92.9 |



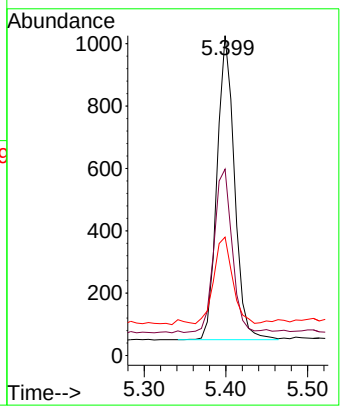


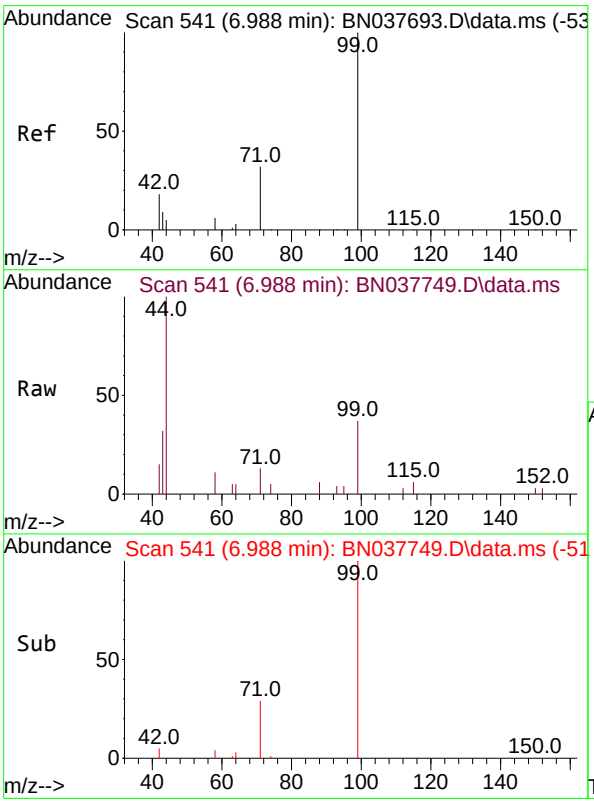

#4
2-Fluorophenol
Concen: 0.098 ng
RT: 5.399 min Scan# 3
Delta R.T. -0.000 min
Lab File: BN037749.D
Acq: 17 Sep 2025 17:00

**Instrument :**
BNA_N
**ClientSampleId :**
MW201D-20250908

Tgt Ion:112 Resp: 1448

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 112 | 100 | | |
| 64 | 55.5 | 44.9 | 67.3 |
| 63 | 30.6 | 24.7 | 37.1 |

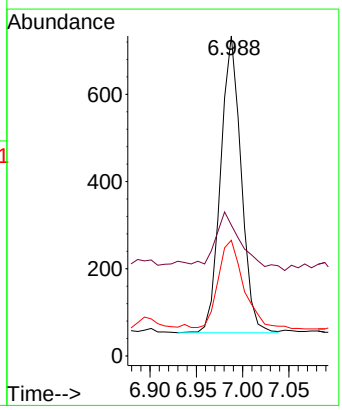


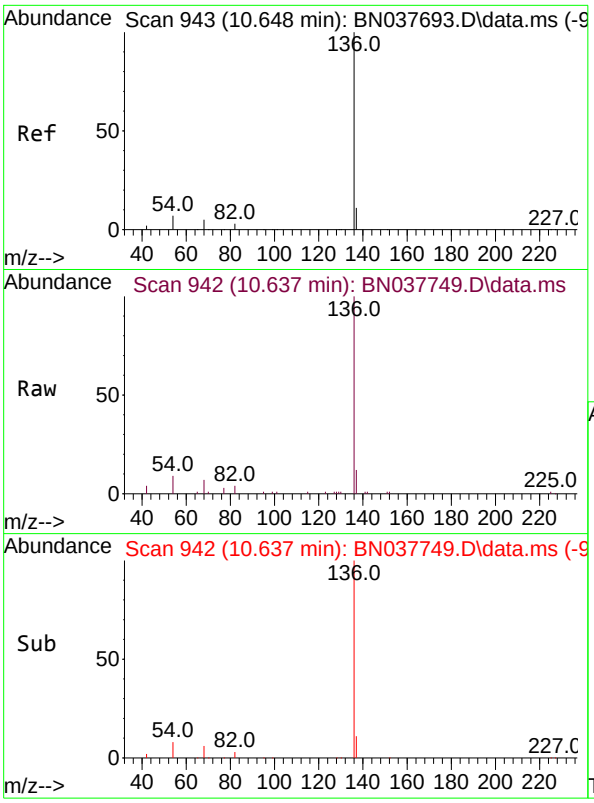




#5
Phenol-d6
Concen: 0.055 ng
RT: 6.988 min Scan# 541
Delta R.T. -0.000 min
Lab File: BN037749.D
Acq: 17 Sep 2025 17:00

Tgt Ion: 99 Resp: 1049

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 99 | 100 | | |
| 42 | 25.7 | 16.6 | 24.8# |
| 71 | 39.2 | 26.7 | 40.1 |



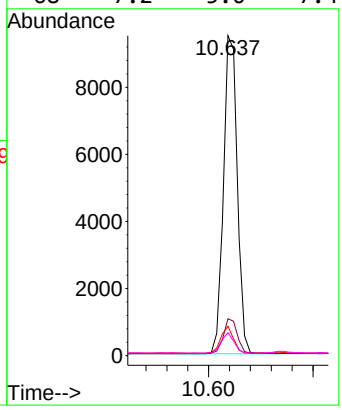


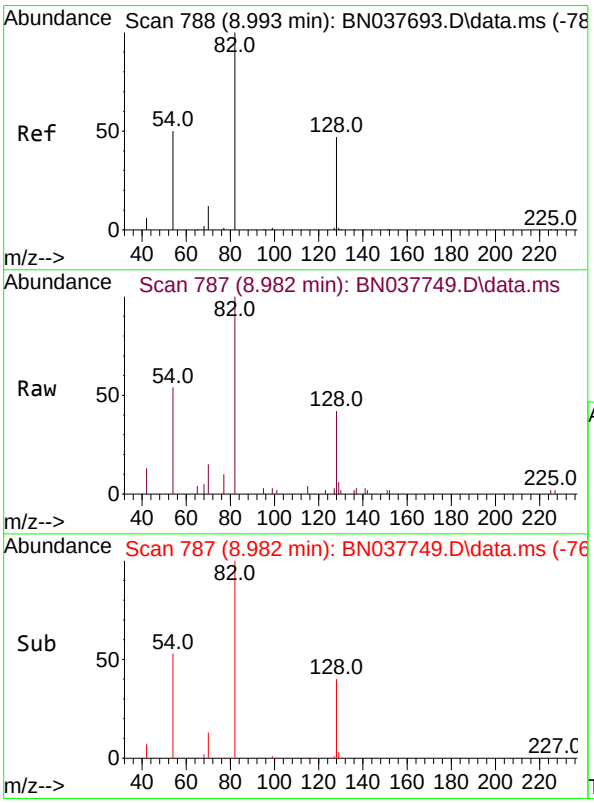

#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.637 min Scan# 94
Delta R.T. -0.011 min
Lab File: BN037749.D
Acq: 17 Sep 2025 17:00

**Instrument :**
BNA_N
**ClientSampleId :**
MW201D-20250908

Tgt Ion:136 Resp: 17423

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 136 | 100 | | |
| 137 | 11.5 | 9.1 | 13.7 |
| 54 | 9.2 | 6.3 | 9.5 |
| 68 | 7.2 | 5.0 | 7.4 |

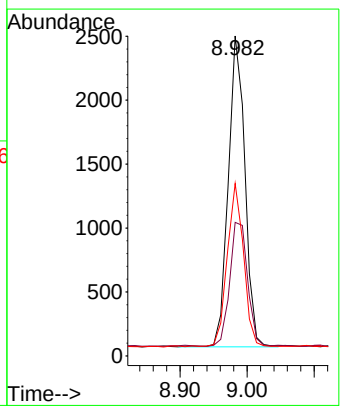


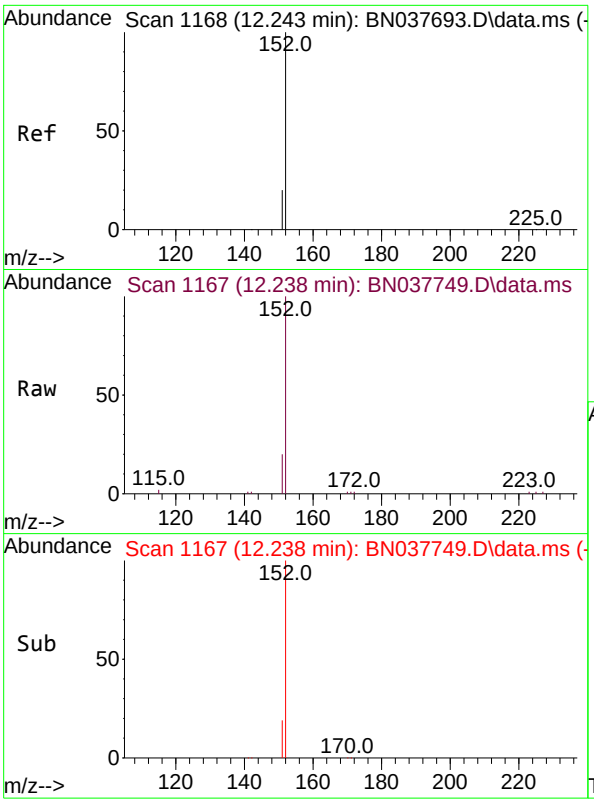




#8
Nitrobenzene-d5
Concen: 0.328 ng
RT: 8.982 min Scan# 787
Delta R.T. -0.011 min
Lab File: BN037749.D
Acq: 17 Sep 2025 17:00

Tgt Ion: 82 Resp: 4184

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 82 | 100 | | |
| 128 | 41.7 | 38.3 | 57.5 |
| 54 | 53.9 | 41.4 | 62.2 |



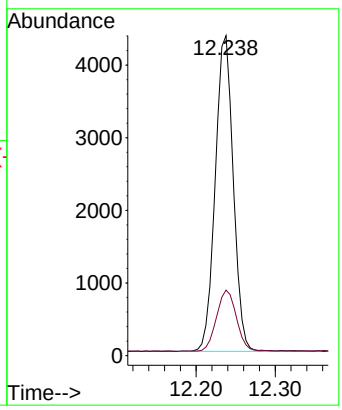


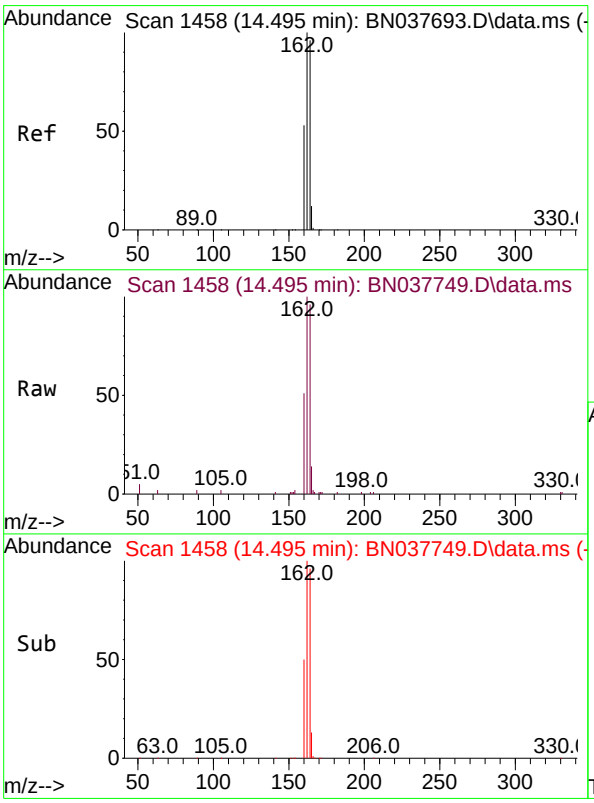

#11
2-Methylnaphthalene-d10
Concen: 0.296 ng
RT: 12.238 min Scan# 11
Delta R.T. -0.005 min
Lab File: BN037749.D
Acq: 17 Sep 2025 17:00

**Instrument :**
BNA_N
**ClientSampleId :**
MW201D-20250908

Tgt Ion:152 Resp: 6835

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 151 | 21.6 | 17.0 | 25.6 |

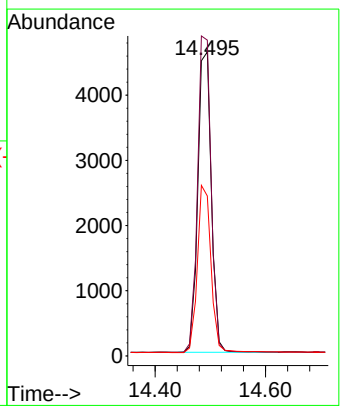


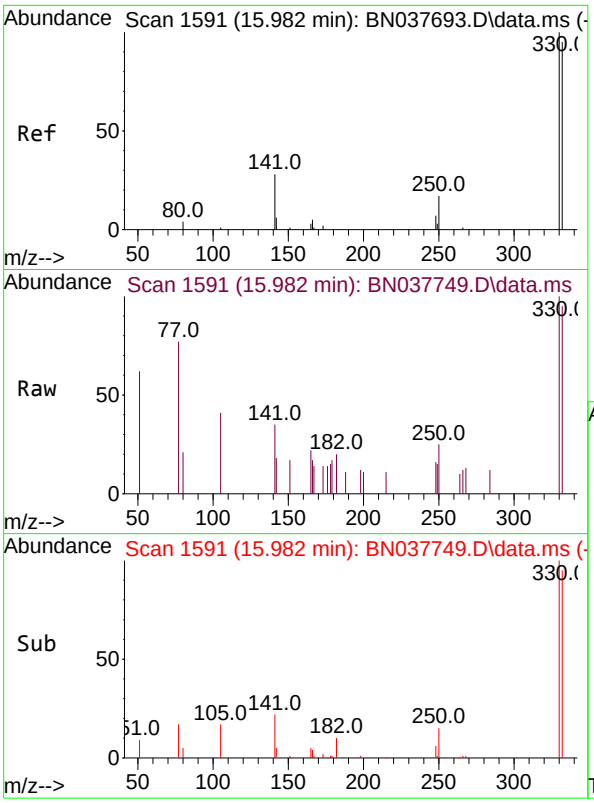




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.495 min Scan# 1458
Delta R.T. -0.000 min
Lab File: BN037749.D
Acq: 17 Sep 2025 17:00

Tgt Ion:164 Resp: 7814

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 164 | 100 | | |
| 162 | 103.9 | 83.1 | 124.7 |
| 160 | 52.6 | 44.3 | 66.5 |



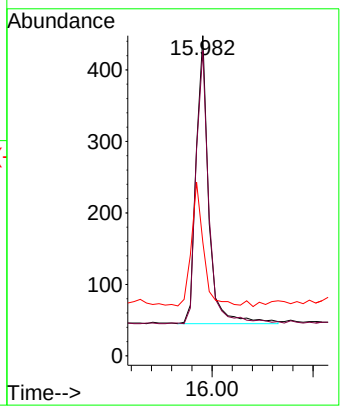


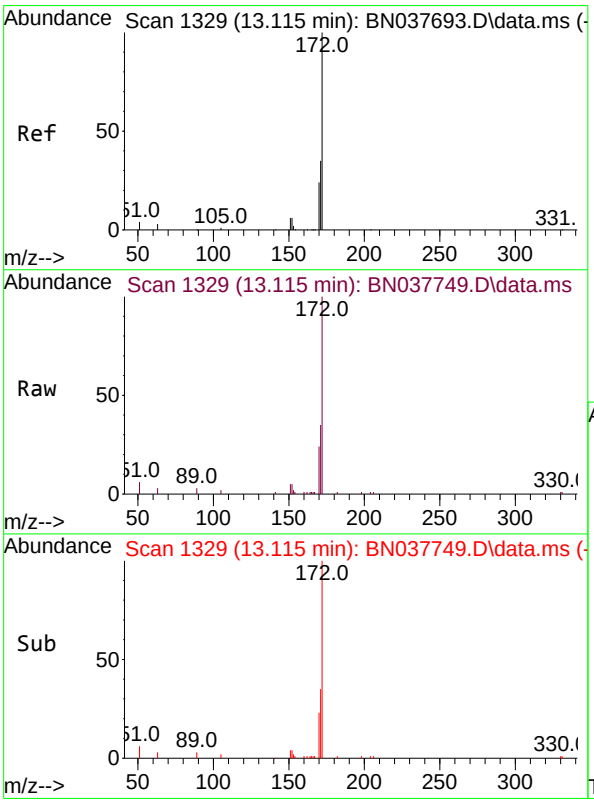

#14
2,4,6-Tribromophenol
Concen: 0.342 ng
RT: 15.982 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN037749.D
Acq: 17 Sep 2025 17:00

**Instrument :**
BNA_N
**ClientSampleId :**
MW201D-20250908

Tgt Ion:330 Resp: 696

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 330 | 100 | | |
| 332 | 96.3 | 75.3 | 112.9 |
| 141 | 42.1 | 35.0 | 52.4 |

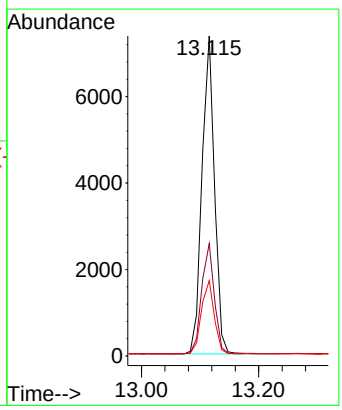


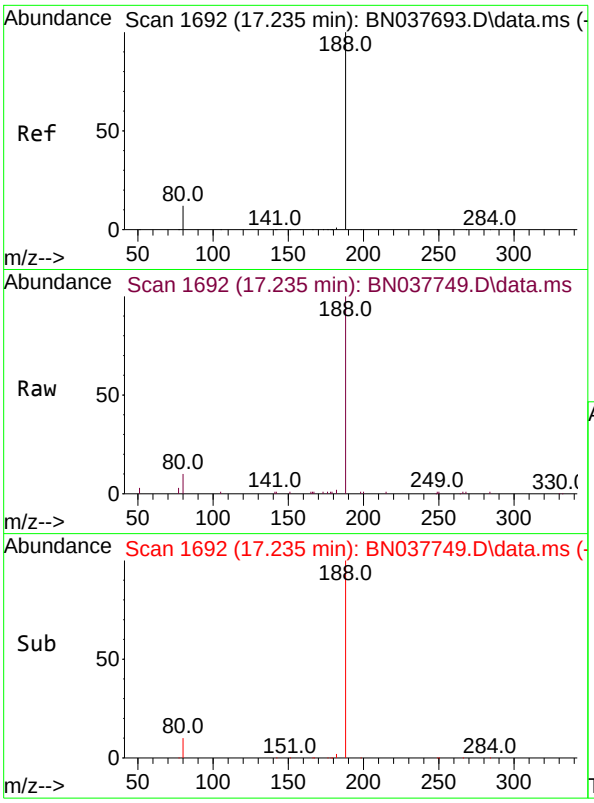




#15
2-Fluorobiphenyl
Concen: 0.333 ng
RT: 13.115 min Scan# 1329
Delta R.T. -0.000 min
Lab File: BN037749.D
Acq: 17 Sep 2025 17:00

Tgt Ion:172 Resp: 10870

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 172 | 100 | | |
| 171 | 35.1 | 28.6 | 43.0 |
| 170 | 23.5 | 19.8 | 29.8 |



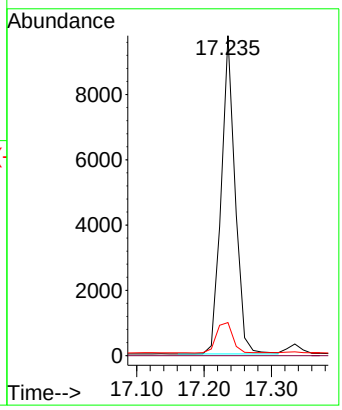


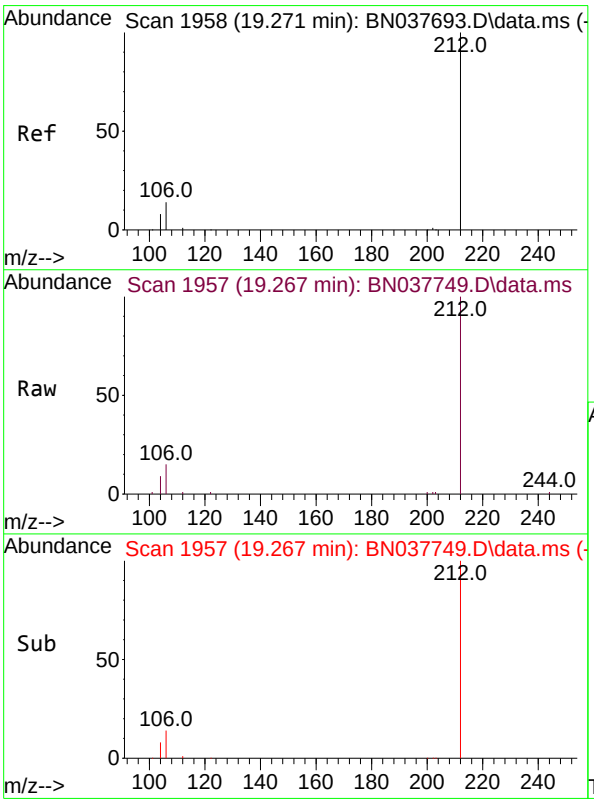

#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.235 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN037749.D
Acq: 17 Sep 2025 17:00

**Instrument :**
BNA_N
**ClientSampleId :**
MW201D-20250908

Tgt Ion:188 Resp: 14079

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 188 | 100 | | |
| 94 | 0.0 | 0.0 | 0.0 |
| 80 | 10.3 | 10.6 | 15.8# |

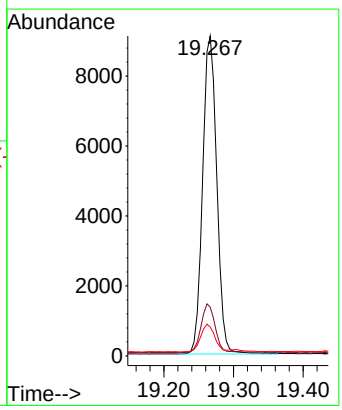


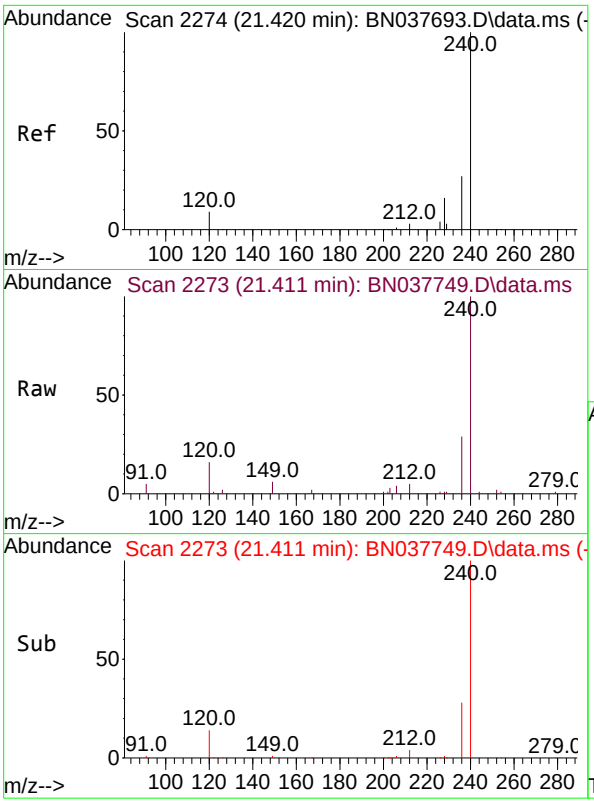




#27
Fluoranthene-d10
Concen: 0.363 ng
RT: 19.267 min Scan# 1957
Delta R.T. -0.005 min
Lab File: BN037749.D
Acq: 17 Sep 2025 17:00

Tgt Ion:212 Resp: 12815

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 212 | 100 | | |
| 106 | 15.3 | 12.2 | 18.2 |
| 104 | 8.7 | 6.9 | 10.3 |



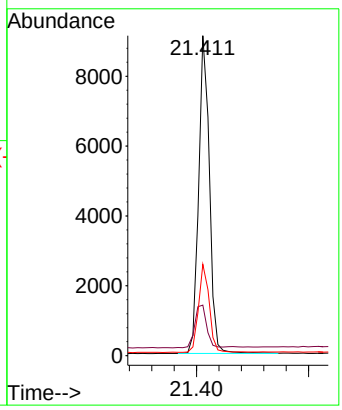


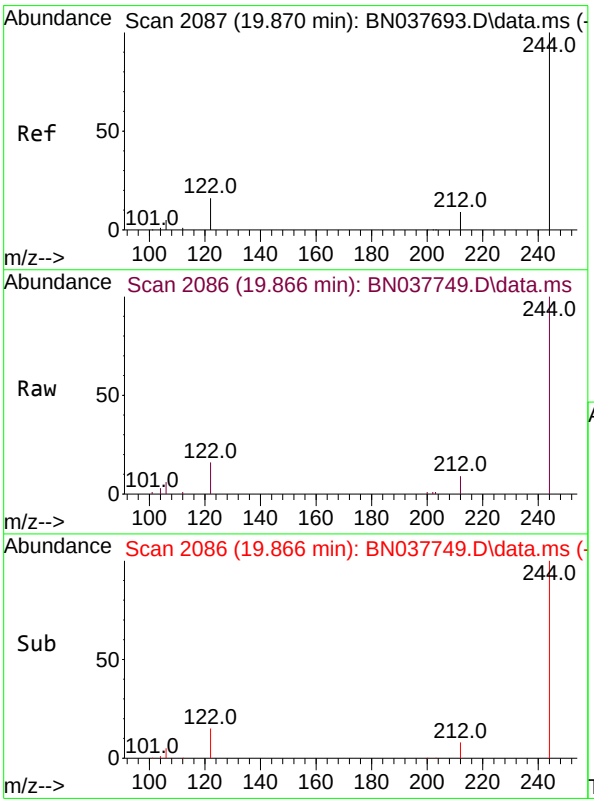

#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.411 min Scan# 21
Delta R.T. -0.009 min
Lab File: BN037749.D
Acq: 17 Sep 2025 17:00

**Instrument :**
BNA_N
**ClientSampleId :**
MW201D-20250908

Tgt Ion:240 Resp: 12160

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 240 | 100 | | |
| 120 | 15.8 | 9.2 | 13.8# |
| 236 | 28.5 | 22.6 | 33.8 |

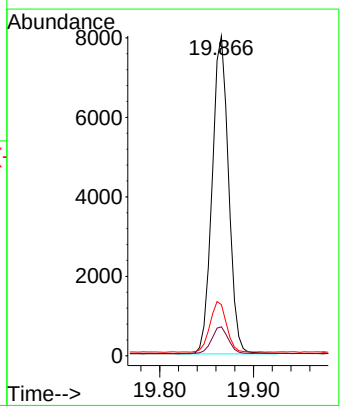


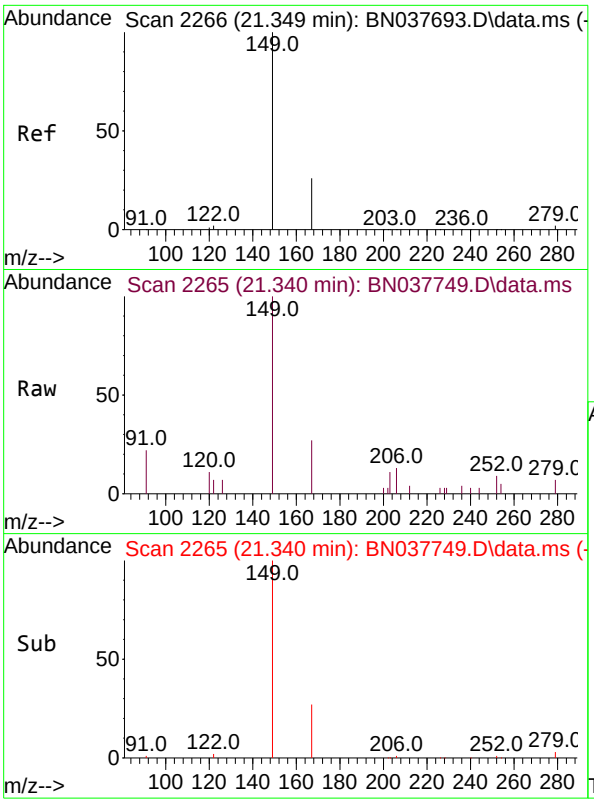




#31
Terphenyl-d14
Concen: 0.393 ng
RT: 19.866 min Scan# 2086
Delta R.T. -0.005 min
Lab File: BN037749.D
Acq: 17 Sep 2025 17:00

Tgt Ion:244 Resp: 9711

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 244 | 100 | | |
| 212 | 9.1 | 7.5 | 11.3 |
| 122 | 16.0 | 13.2 | 19.8 |



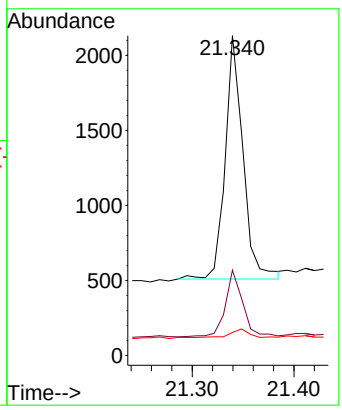


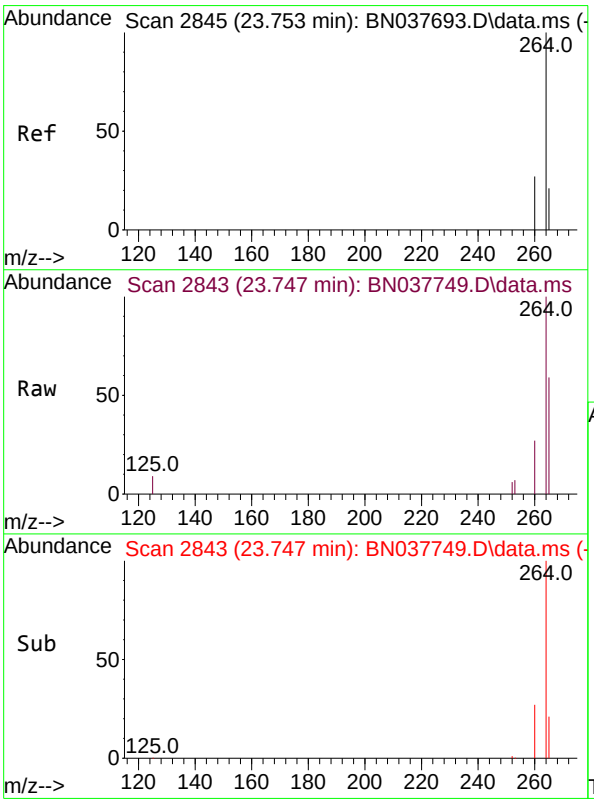

#34
Bis(2-ethylhexyl)phthalate
Concen: 0.157 ng
RT: 21.340 min Scan# 2
Delta R.T. -0.009 min
Lab File: BN037749.D
Acq: 17 Sep 2025 17:00

**Instrument :**
BNA_N
**ClientSampleId :**
MW201D-20250908

Tgt Ion:149 Resp: 1977

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 149 | 100 | | |
| 167 | 26.7 | 20.8 | 31.2 |
| 279 | 3.4 | 3.3 | 4.9 |

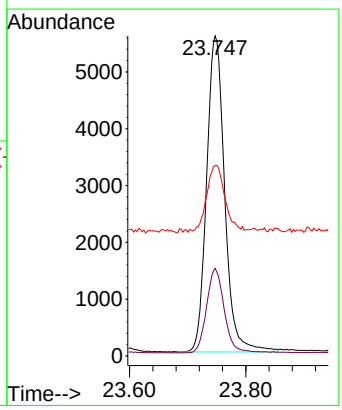



#35
Perylene-d12
Concen: 0.400 ng
RT: 23.747 min Scan# 2843
Delta R.T. -0.006 min
Lab File: BN037749.D
Acq: 17 Sep 2025 17:00

Tgt Ion:264 Resp: 12015

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 264 | 100 | | |
| 260 | 27.4 | 21.8 | 32.8 |
| 265 | 59.5 | 39.4 | 59.2# |



Raw Data: **BN037789.D**

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

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | AECOM Technical Services, Inc. | Date Collected: | 09/08/25 |
| Project: | NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258 | Date Received: | 09/12/25 |
| Client Sample ID: | MW201D-20250908DL | SDG No.: | Q3095 |
| Lab Sample ID: | Q3095-03DL | Matrix: | Water |
| Analytical Method: | SW8270ESIM | % Solid: | 0 |
| Sample Wt/Vol: | 1000 Units: mL | Final Vol: | 1000 uL |
| Soil Aliquot Vol: | uL | Test: | SVOC-SIMGroup1 |
| Extraction Type : | Decanted : N | Level : | LOW |
| Injection Volume : | GPC Factor : 1.0 | GPC Cleanup : | N PH : |
| Prep Method : | | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| BN037789.D | 2 | 09/15/25 10:15 | 09/18/25 22:27 | PB169692 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOD | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | | |
| 123-91-1 | 1,4-Dioxane | 5.70 | D | 0.13 | 0.40 | 0.40 | ug/L |
| **SURROGATES** | | | | | | | |
| 7297-45-2 | 2-Methylnaphthalene-d10 | 0.29 | | 30 - 150 | | 73% | SPK: 0.4 |
| 93951-69-0 | Fluoranthene-d10 | 0.33 | | 30 - 150 | | 81% | SPK: 0.4 |
| 4165-60-0 | Nitrobenzene-d5 | 0.33 | | 55 - 111 | | 82% | SPK: 0.4 |
| 321-60-8 | 2-Fluorobiphenyl | 0.32 | | 53 - 106 | | 81% | SPK: 0.4 |
| 1718-51-0 | Terphenyl-d14 | 0.41 | | 58 - 132 | | 101% | SPK: 0.4 |
| **INTERNAL STANDARDS** | | | | | | | |
| 3855-82-1 | 1,4-Dichlorobenzene-d4 | 7720 | 7.833 | | | | |
| 1146-65-2 | Naphthalene-d8 | 21000 | 10.637 | | | | |
| 15067-26-2 | Acenaphthene-d10 | 9570 | 14.484 | | | | |
| 1517-22-2 | Phenanthrene-d10 | 16100 | 17.235 | | | | |
| 1719-03-5 | Chrysene-d12 | 11700 | 21.411 | | | | |
| 1520-96-3 | Perylene-d12 | 11700 | 23.739 | | | | |

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\BN091825\
Data File : BN037789.D
Acq On : 18 Sep 2025 22:27
Operator : RC/JU
Sample : Q3095-03DL 2X
Misc :
ALS Vial : 15 Sample Multiplier: 1

**Instrument :**
BNA_N
**ClientSampleId :**
MW201D-20250908DL

Quant Time: Sep 19 04:12:01 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN091125.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Sep 11 14:20:01 2025
Response via : Initial Calibration

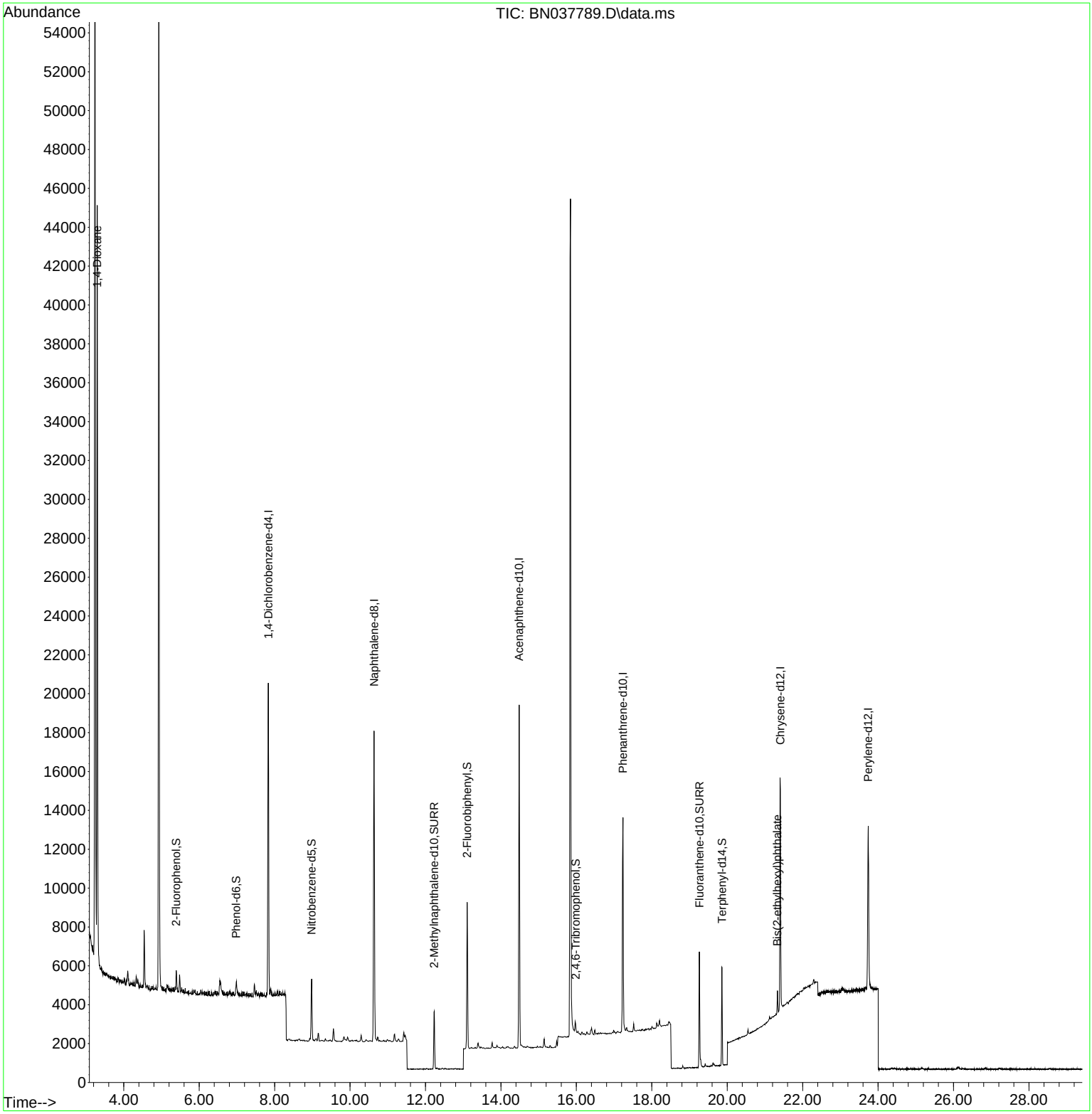
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) 1,4-Dichlorobenzene-d4 | 7.833 | 152 | 7715 | 0.400 | ng | 0.00 |
| 7) Naphthalene-d8 | 10.637 | 136 | 20993 | 0.400 | ng | -0.01 |
| 13) Acenaphthene-d10 | 14.484 | 164 | 9567 | 0.400 | ng | -0.01 |
| 19) Phenanthrene-d10 | 17.235 | 188 | 16081 | 0.400 | ng | # 0.00 |
| 29) Chrysene-d12 | 21.411 | 240 | 11736 | 0.400 | ng | 0.00 |
| 35) Perylene-d12 | 23.739 | 264 | 11717 | 0.400 | ng | #-0.01 |
| System Monitoring Compounds | | | | | | |
| 4) 2-Fluorophenol | 5.392 | 112 | 867 | 0.049 | ng | 0.00 |
| 5) Phenol-d6 | 6.981 | 99 | 629 | 0.027 | ng | 0.00 |
| 8) Nitrobenzene-d5 | 8.982 | 82 | 2516 | 0.164 | ng | -0.01 |
| 11) 2-Methylnaphthalene-d10 | 12.228 | 152 | 4049 | 0.146 | ng | -0.02 |
| 14) 2,4,6-Tribromophenol | 15.982 | 330 | 399 | 0.160 | ng | 0.00 |
| 15) 2-Fluorobiphenyl | 13.105 | 172 | 6450 | 0.161 | ng | -0.01 |
| 27) Fluoranthene-d10 | 19.262 | 212 | 6575 | 0.163 | ng | 0.00 |
| 31) Terphenyl-d14 | 19.861 | 244 | 4825 | 0.203 | ng | 0.00 |
| Target Compounds | | | | | | Qvalue |
| 2) 1,4-Dioxane | 3.297 | 88 | 22821 | 2.840 | ng | 95 |
| 34) Bis(2-ethylhexyl)phtha... | 21.331 | 149 | 1137 | 0.094 | ng | # 99 |

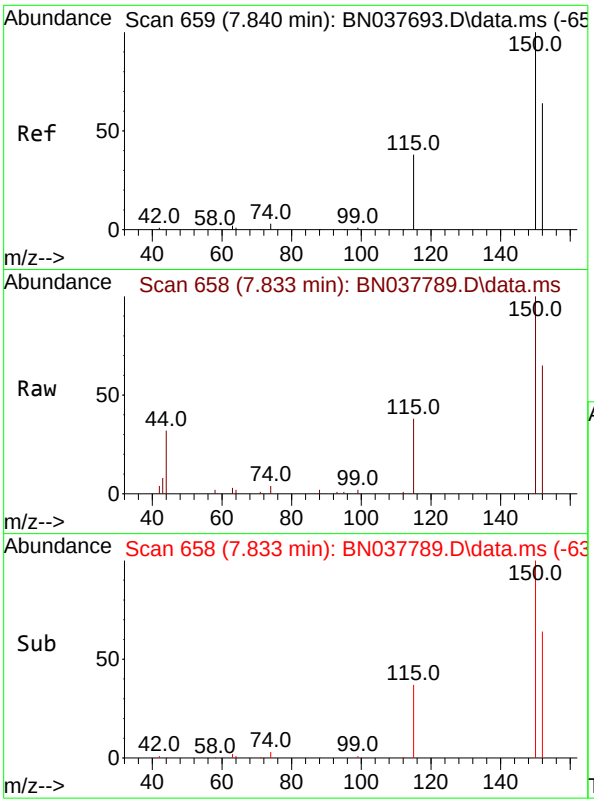
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN091825\
Data File : BN037789.D
Acq On : 18 Sep 2025 22:27
Operator : RC/JU
Sample : Q3095-03DL 2X
Misc :
ALS Vial : 15 Sample Multiplier: 1

**Instrument :**
BNA_N
**ClientSampleId :**
MW201D-20250908DL

Quant Time: Sep 19 04:12:01 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN091125.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Sep 11 14:20:01 2025
Response via : Initial Calibration



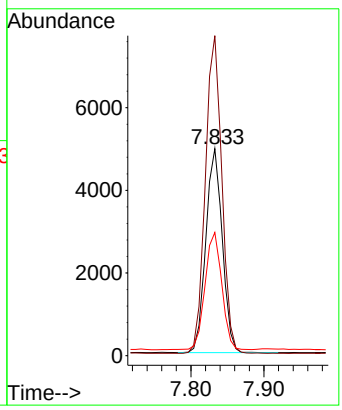


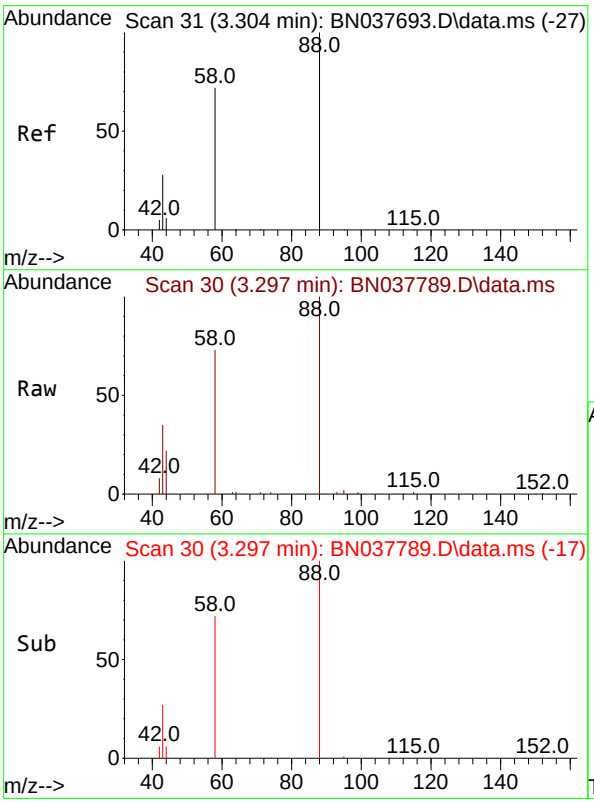

#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.833 min Scan# 6
Delta R.T. -0.007 min
Lab File: BN037789.D
Acq: 18 Sep 2025 22:27

**Instrument :**
BNA_N
**ClientSampleId :**
MW201D-20250908DL

Tgt Ion:152 Resp: 7715

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 150 | 154.5 | 124.5 | 186.7 |
| 115 | 59.5 | 49.2 | 73.8 |

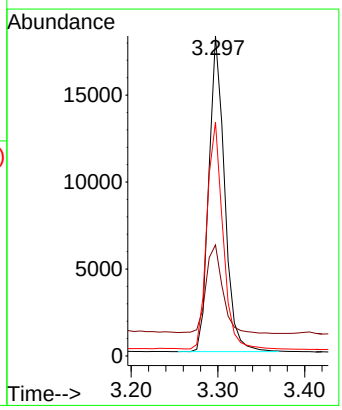


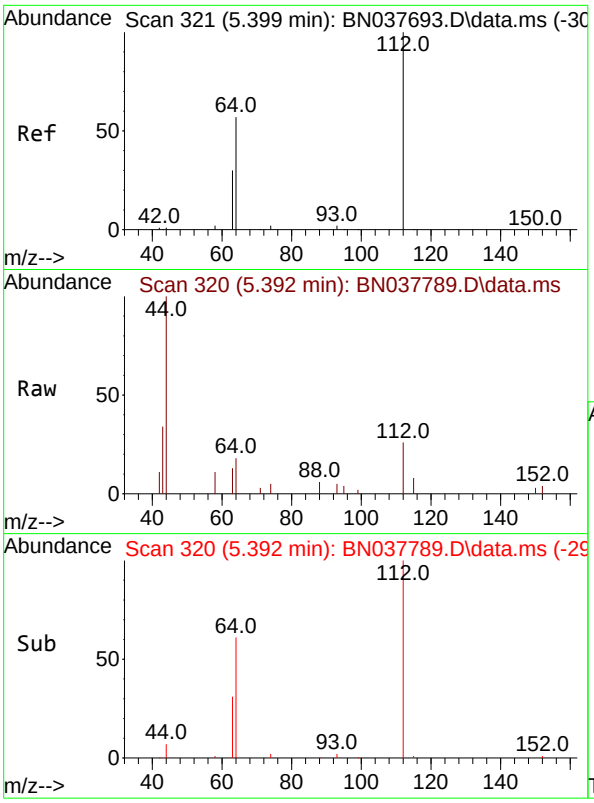




#2
1,4-Dioxane
Concen: 2.840 ng
RT: 3.297 min Scan# 30
Delta R.T. -0.007 min
Lab File: BN037789.D
Acq: 18 Sep 2025 22:27

Tgt Ion: 88 Resp: 22821

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 88 | 100 | | |
| 43 | 29.9 | 26.8 | 40.2 |
| 58 | 73.0 | 61.9 | 92.9 |



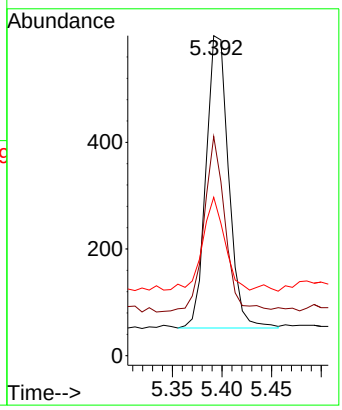


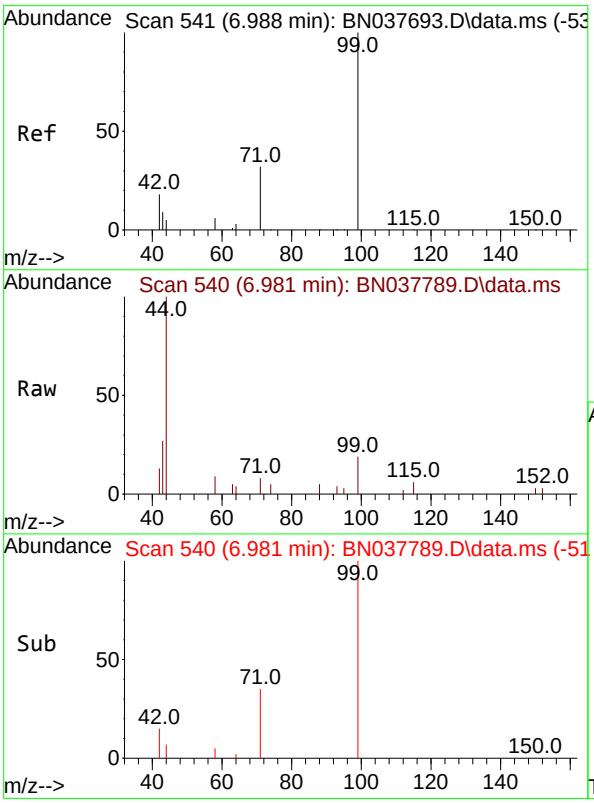

#4
2-Fluorophenol
Concen: 0.049 ng
RT: 5.392 min Scan# 3
Delta R.T. -0.007 min
Lab File: BN037789.D
Acq: 18 Sep 2025 22:27

**Instrument :**
BNA_N
**ClientSampleId :**
MW201D-20250908DL

Tgt Ion:112 Resp: 867

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 112 | 100 | | |
| 64 | 55.5 | 44.9 | 67.3 |
| 63 | 30.8 | 24.7 | 37.1 |

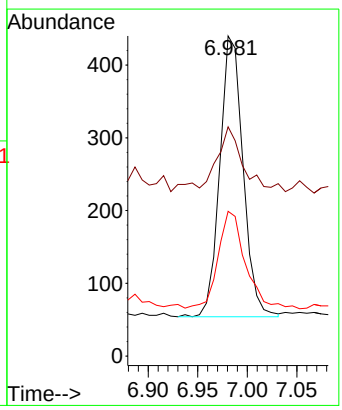


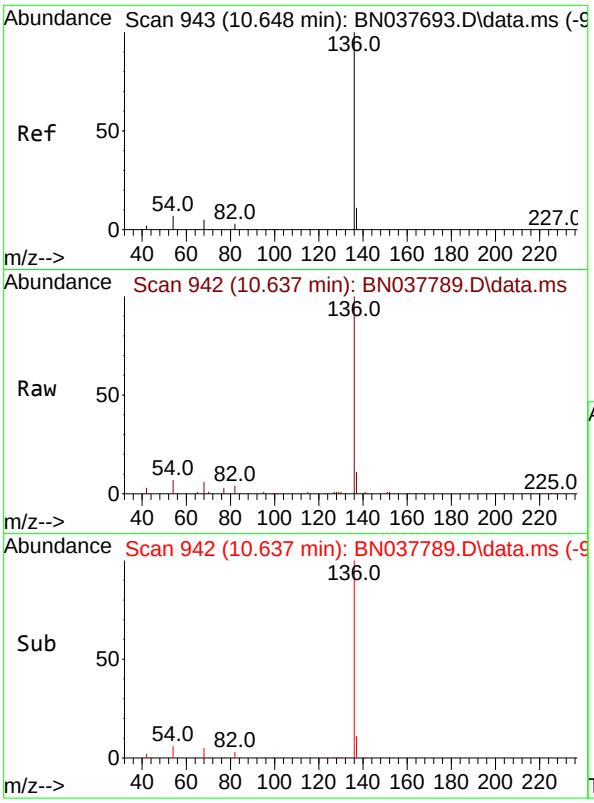




#5
Phenol-d6
Concen: 0.027 ng
RT: 6.981 min Scan# 540
Delta R.T. -0.007 min
Lab File: BN037789.D
Acq: 18 Sep 2025 22:27

Tgt Ion: 99 Resp: 629

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 99 | 100 | | |
| 42 | 25.3 | 16.6 | 24.8# |
| 71 | 41.3 | 26.7 | 40.1# |



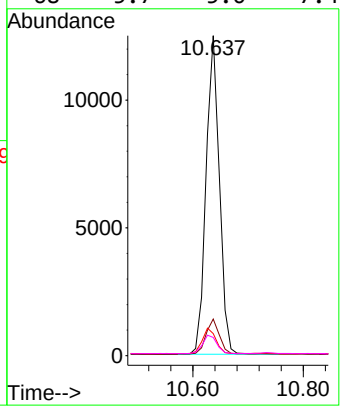


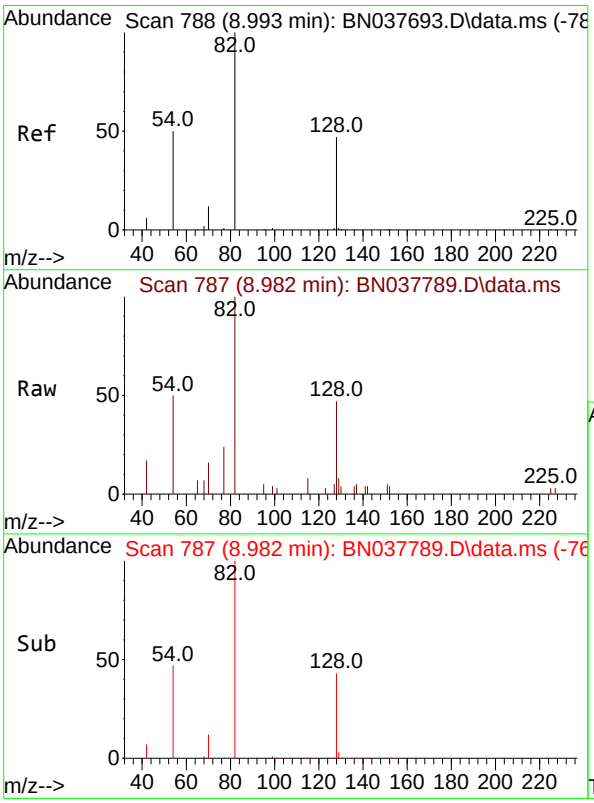

#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.637 min Scan# 94
Delta R.T. -0.011 min
Lab File: BN037789.D
Acq: 18 Sep 2025 22:27

**Instrument :**
BNA_N
**ClientSampleId :**
MW201D-20250908DL

Tgt Ion:136 Resp: 20993

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 136 | 100 | | |
| 137 | 11.5 | 9.1 | 13.7 |
| 54 | 6.9 | 6.3 | 9.5 |
| 68 | 5.7 | 5.0 | 7.4 |

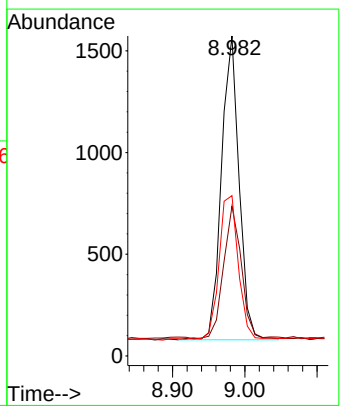


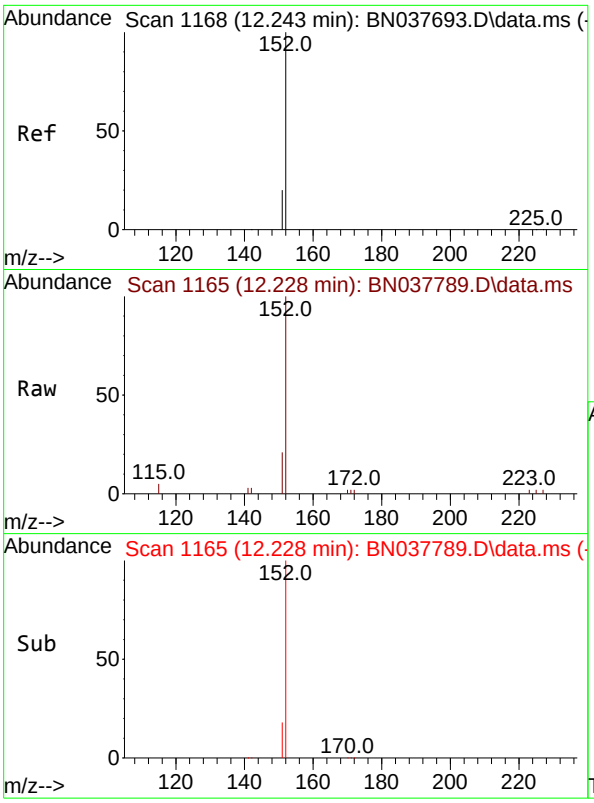




#8
Nitrobenzene-d5
Concen: 0.164 ng
RT: 8.982 min Scan# 787
Delta R.T. -0.011 min
Lab File: BN037789.D
Acq: 18 Sep 2025 22:27

Tgt Ion: 82 Resp: 2516

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 82 | 100 | | |
| 128 | 46.8 | 38.3 | 57.5 |
| 54 | 50.1 | 41.4 | 62.2 |



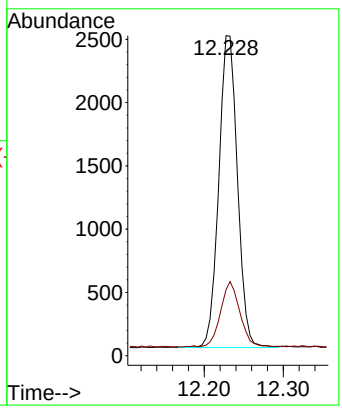


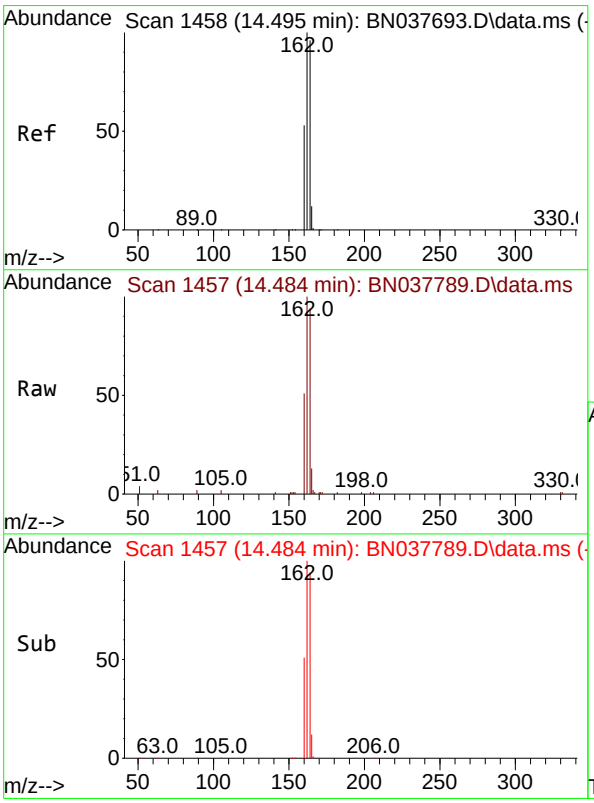

#11
2-Methylnaphthalene-d10
Concen: 0.146 ng
RT: 12.228 min Scan# 11
Delta R.T. -0.015 min
Lab File: BN037789.D
Acq: 18 Sep 2025 22:27

**Instrument :**
BNA_N
**ClientSampleId :**
MW201D-20250908DL

Tgt Ion:152 Resp: 4049

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 151 | 21.4 | 17.0 | 25.6 |

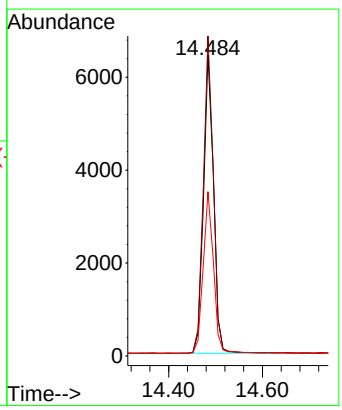


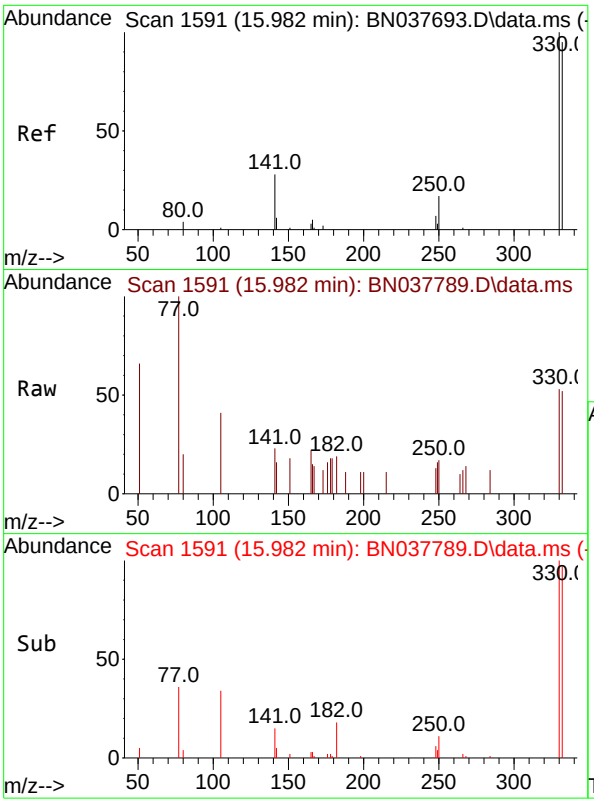




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.484 min Scan# 1457
Delta R.T. -0.011 min
Lab File: BN037789.D
Acq: 18 Sep 2025 22:27

Tgt Ion:164 Resp: 9567

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 164 | 100 | | |
| 162 | 106.3 | 83.1 | 124.7 |
| 160 | 54.5 | 44.3 | 66.5 |



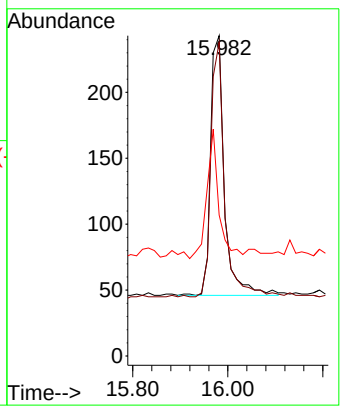


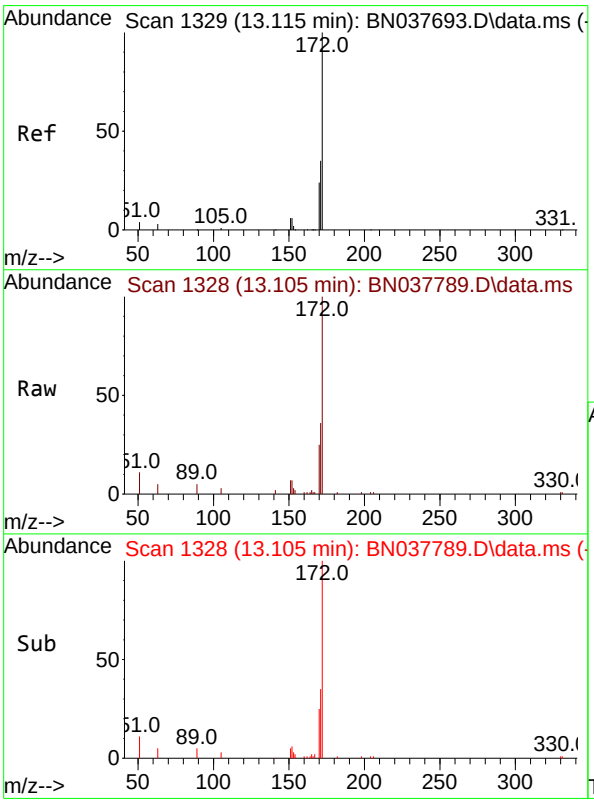

#14
2,4,6-Tribromophenol
Concen: 0.160 ng
RT: 15.982 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN037789.D
Acq: 18 Sep 2025 22:27

**Instrument :**
BNA_N
**ClientSampleId :**
MW201D-20250908DL

Tgt Ion:330 Resp: 399

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 330 | 100 | | |
| 332 | 96.7 | 75.3 | 112.9 |
| 141 | 43.4 | 35.0 | 52.4 |

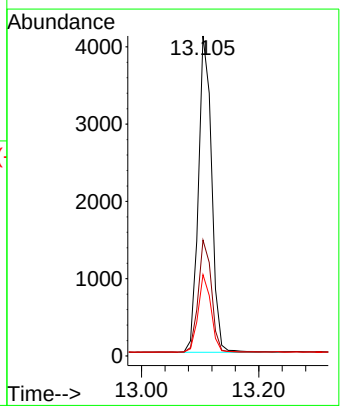


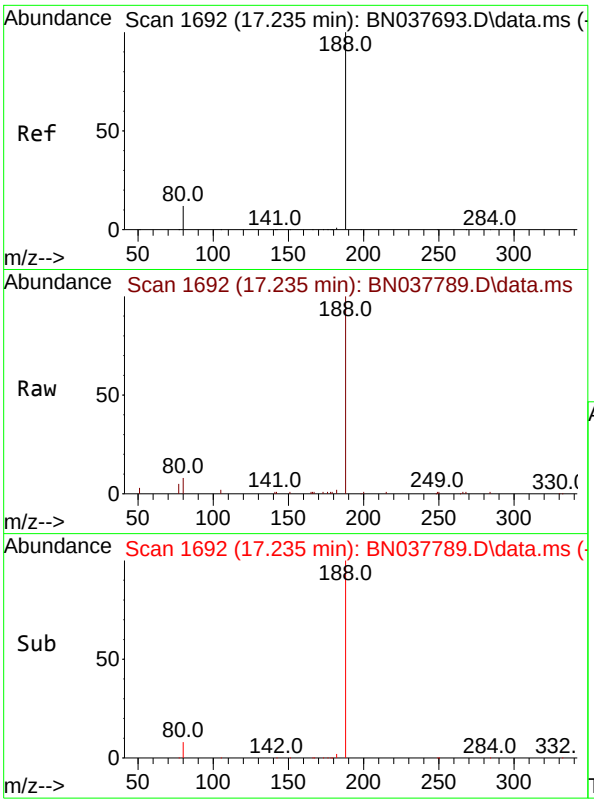




#15
2-Fluorobiphenyl
Concen: 0.161 ng
RT: 13.105 min Scan# 1328
Delta R.T. -0.011 min
Lab File: BN037789.D
Acq: 18 Sep 2025 22:27

Tgt Ion:172 Resp: 6450

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 172 | 100 | | |
| 171 | 36.2 | 28.6 | 43.0 |
| 170 | 25.4 | 19.8 | 29.8 |



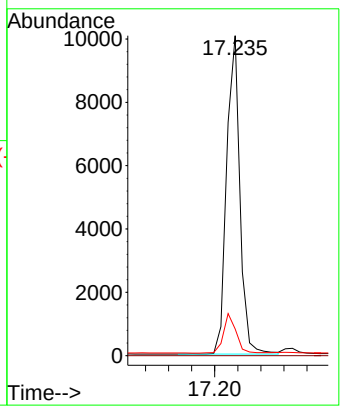


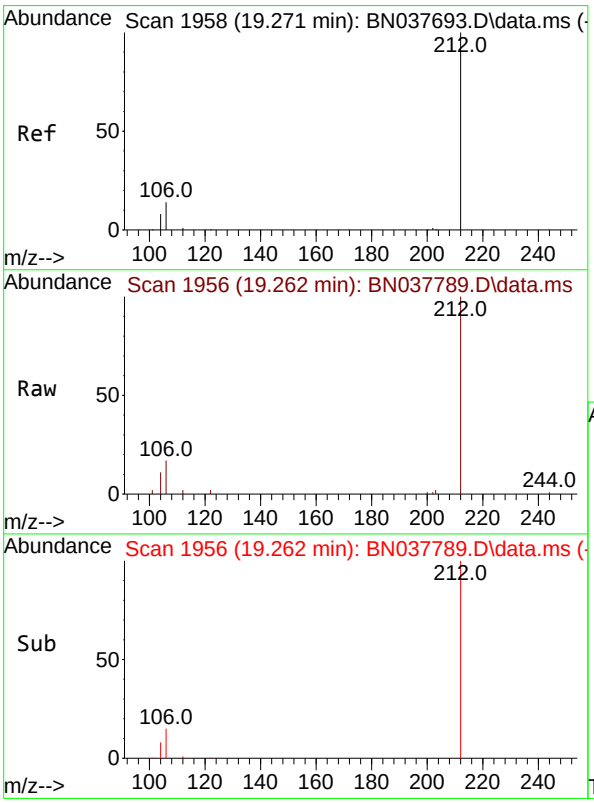

#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.235 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN037789.D
Acq: 18 Sep 2025 22:27

**Instrument :**
BNA_N
**ClientSampleId :**
MW201D-20250908DL

Tgt Ion:188 Resp: 16081

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 188 | 100 | | |
| 94 | 0.0 | 0.0 | 0.0 |
| 80 | 8.4 | 10.6 | 15.8# |

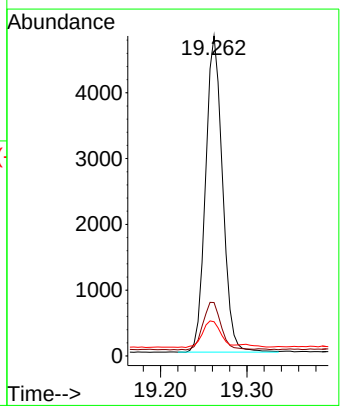


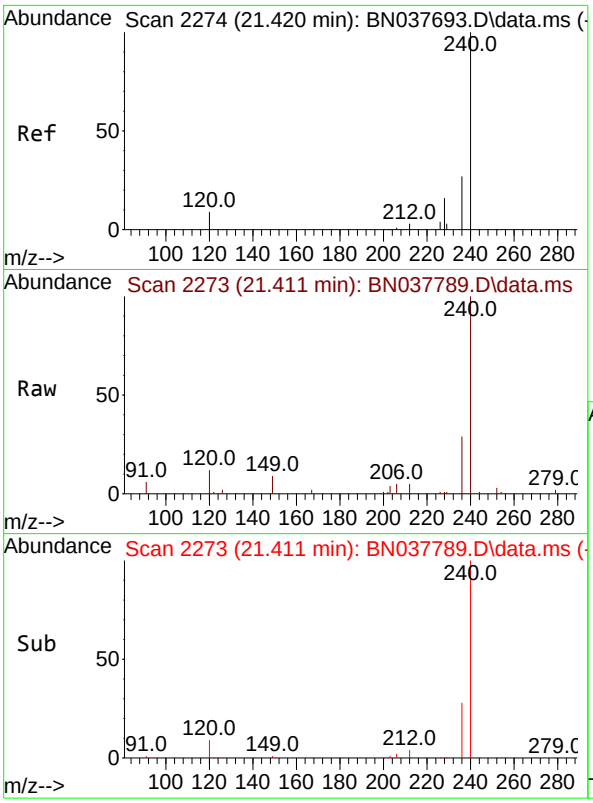




#27
Fluoranthene-d10
Concen: 0.163 ng
RT: 19.262 min Scan# 1956
Delta R.T. -0.009 min
Lab File: BN037789.D
Acq: 18 Sep 2025 22:27

Tgt Ion:212 Resp: 6575

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 212 | 100 | | |
| 106 | 16.0 | 12.2 | 18.2 |
| 104 | 8.9 | 6.9 | 10.3 |



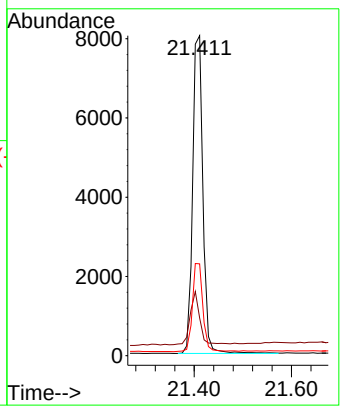


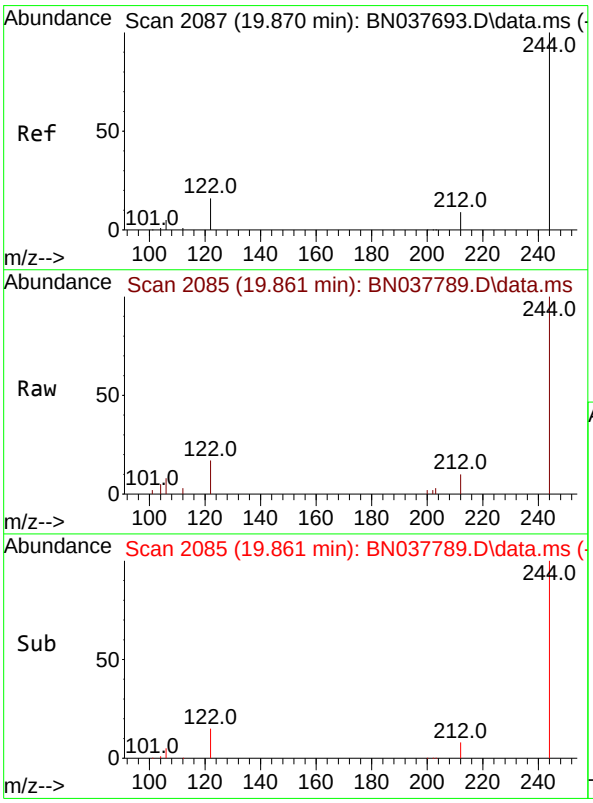

#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.411 min Scan# 2
Delta R.T. -0.009 min
Lab File: BN037789.D
Acq: 18 Sep 2025 22:27

**Instrument :**
BNA_N
**ClientSampleId :**
MW201D-20250908DL

Tgt Ion:240 Resp: 11736

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 240 | 100 | | |
| 120 | 11.8 | 9.2 | 13.8 |
| 236 | 28.7 | 22.6 | 33.8 |

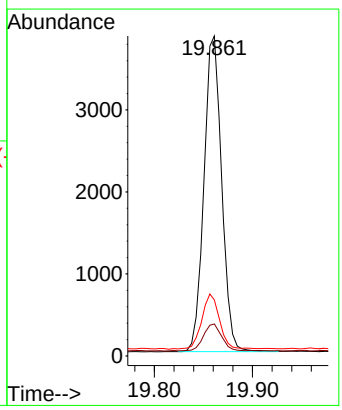


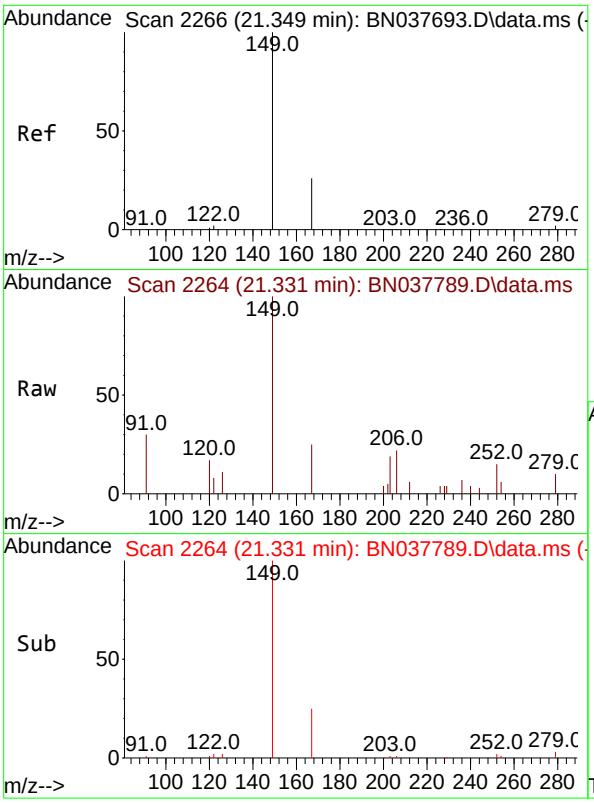




#31
Terphenyl-d14
Concen: 0.203 ng
RT: 19.861 min Scan# 2085
Delta R.T. -0.009 min
Lab File: BN037789.D
Acq: 18 Sep 2025 22:27

Tgt Ion:244 Resp: 4825

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 244 | 100 | | |
| 212 | 10.0 | 7.5 | 11.3 |
| 122 | 17.5 | 13.2 | 19.8 |



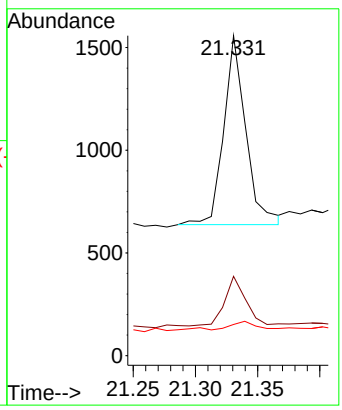


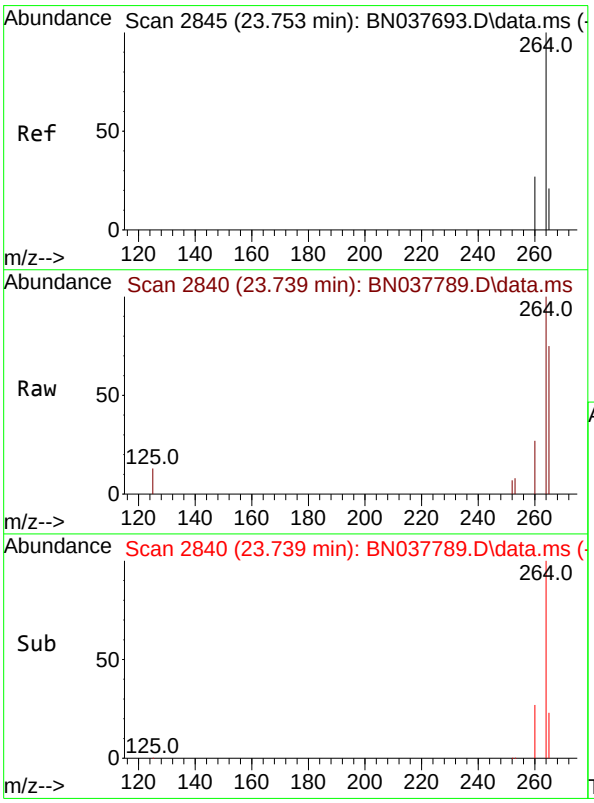

#34
Bis(2-ethylhexyl)phthalate
Concen: 0.094 ng
RT: 21.331 min Scan# 2
Delta R.T. -0.018 min
Lab File: BN037789.D
Acq: 18 Sep 2025 22:27

**Instrument :**
BNA_N
**ClientSampleId :**
MW201D-20250908DL

Tgt Ion:149 Resp: 1137

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 149 | 100 | | |
| 167 | 25.6 | 20.8 | 31.2 |
| 279 | 5.5 | 3.3 | 4.9# |

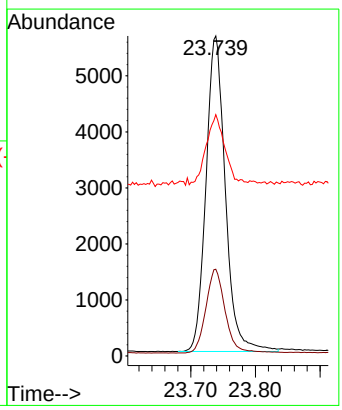



#35
Perylene-d12
Concen: 0.400 ng
RT: 23.739 min Scan# 2840
Delta R.T. -0.015 min
Lab File: BN037789.D
Acq: 18 Sep 2025 22:27

Tgt Ion:264 Resp: 11717

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 264 | 100 | | |
| 260 | 27.1 | 21.8 | 32.8 |
| 265 | 75.4 | 39.4 | 59.2# |



Raw Data: **BN037750.D**

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

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | AECOM Technical Services, Inc. | Date Collected: | 09/08/25 |
| Project: | NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258 | Date Received: | 09/12/25 |
| Client Sample ID: | MW179D1-20250908 | SDG No.: | Q3095 |
| Lab Sample ID: | Q3095-04 | Matrix: | Water |
| Analytical Method: | SW8270ESIM | % Solid: | 0 |
| Sample Wt/Vol: | 1000 Units: mL | Final Vol: | 1000 uL |
| Soil Aliquot Vol: | uL | Test: | SVOC-SIMGroup1 |
| Extraction Type : | Decanted : N | Level : | LOW |
| Injection Volume : | GPC Factor : 1.0 | GPC Cleanup : | N PH : |
| Prep Method : | | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| BN037750.D | 1 | 09/15/25 10:15 | 09/17/25 17:36 | PB169692 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOD | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | | |
| 123-91-1 | 1,4-Dioxane | 0.22 | | 0.070 | 0.20 | 0.20 | ug/L |
| **SURROGATES** | | | | | | | |
| 7297-45-2 | 2-Methylnaphthalene-d10 | 0.32 | | 30 - 150 | | 79% | SPK: 0.4 |
| 93951-69-0 | Fluoranthene-d10 | 0.38 | | 30 - 150 | | 95% | SPK: 0.4 |
| 4165-60-0 | Nitrobenzene-d5 | 0.35 | | 55 - 111 | | 88% | SPK: 0.4 |
| 321-60-8 | 2-Fluorobiphenyl | 0.36 | | 53 - 106 | | 90% | SPK: 0.4 |
| 1718-51-0 | Terphenyl-d14 | 0.43 | | 58 - 132 | | 107% | SPK: 0.4 |
| **INTERNAL STANDARDS** | | | | | | | |
| 3855-82-1 | 1,4-Dichlorobenzene-d4 | 6640 | 7.84 | | | | |
| 1146-65-2 | Naphthalene-d8 | 17900 | 10.637 | | | | |
| 15067-26-2 | Acenaphthene-d10 | 7910 | 14.495 | | | | |
| 1517-22-2 | Phenanthrene-d10 | 13700 | 17.235 | | | | |
| 1719-03-5 | Chrysene-d12 | 11500 | 21.411 | | | | |
| 1520-96-3 | Perylene-d12 | 11300 | 23.747 | | | | |

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\BN091725\
Data File : BN037750.D
Acq On : 17 Sep 2025 17:36
Operator : RC/JU
Sample : Q3095-04
Misc :
ALS Vial : 12 Sample Multiplier: 1

**Instrument :**
BNA_N
**ClientSampleId :**
MW179D1-20250908

Quant Time: Sep 17 18:05:06 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN091125.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Sep 11 14:20:01 2025
Response via : Initial Calibration

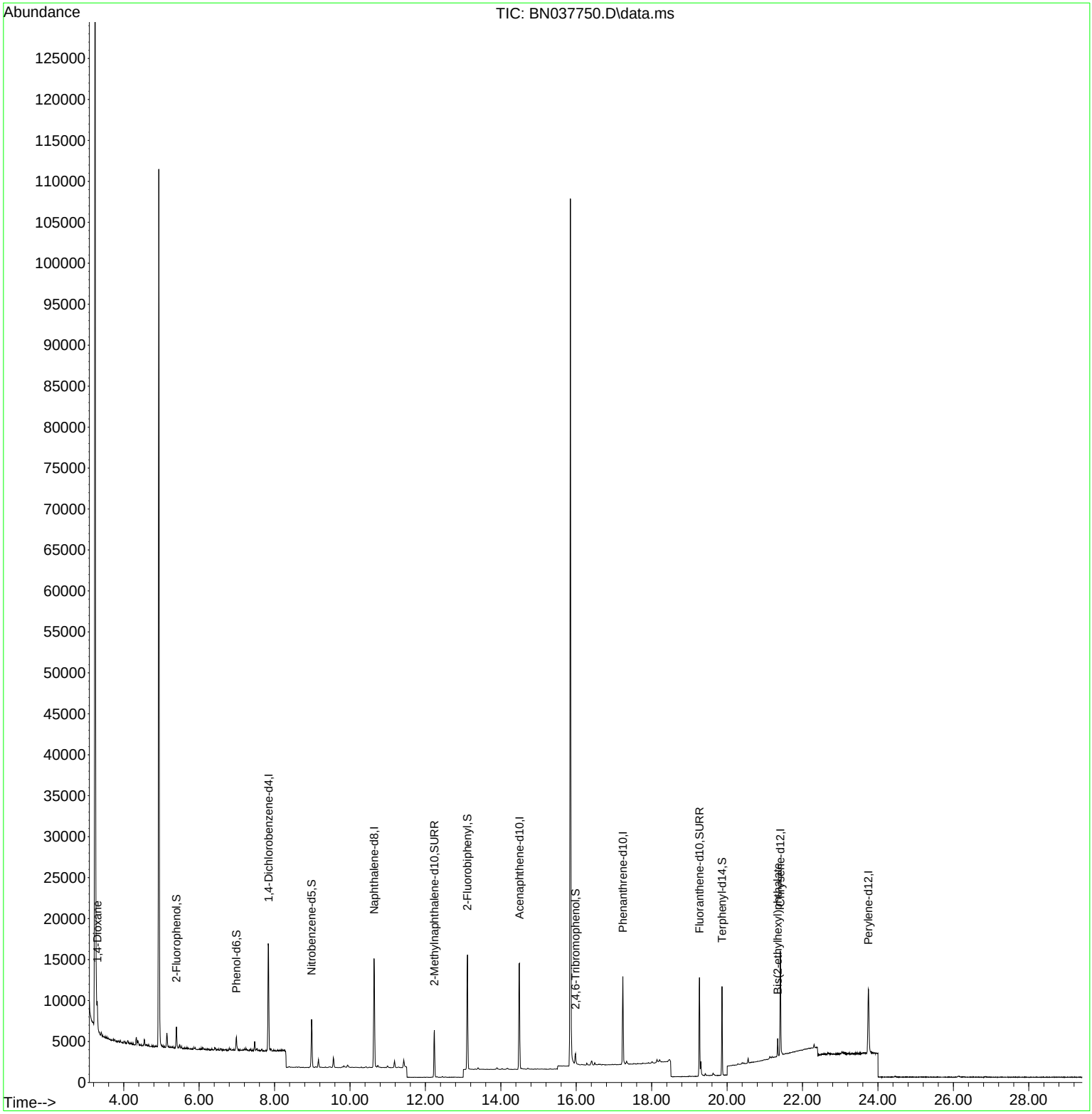
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) 1,4-Dichlorobenzene-d4 | 7.840 | 152 | 6641 | 0.400 | ng | 0.00 |
| 7) Naphthalene-d8 | 10.637 | 136 | 17861 | 0.400 | ng | -0.01 |
| 13) Acenaphthene-d10 | 14.495 | 164 | 7906 | 0.400 | ng | 0.00 |
| 19) Phenanthrene-d10 | 17.235 | 188 | 13742 | 0.400 | ng | 0.00 |
| 29) Chrysene-d12 | 21.411 | 240 | 11462 | 0.400 | ng | # 0.00 |
| 35) Perylene-d12 | 23.747 | 264 | 11339 | 0.400 | ng | # 0.00 |
| System Monitoring Compounds | | | | | | |
| 4) 2-Fluorophenol | 5.399 | 112 | 2038 | 0.134 | ng | 0.00 |
| 5) Phenol-d6 | 6.988 | 99 | 1521 | 0.077 | ng | 0.00 |
| 8) Nitrobenzene-d5 | 8.982 | 82 | 4613 | 0.353 | ng | -0.01 |
| 11) 2-Methylnaphthalene-d10 | 12.238 | 152 | 7496 | 0.317 | ng | 0.00 |
| 14) 2,4,6-Tribromophenol | 15.982 | 330 | 834 | 0.404 | ng | 0.00 |
| 15) 2-Fluorobiphenyl | 13.115 | 172 | 11872 | 0.359 | ng | 0.00 |
| 27) Fluoranthene-d10 | 19.267 | 212 | 13070 | 0.379 | ng | 0.00 |
| 31) Terphenyl-d14 | 19.866 | 244 | 9983 | 0.429 | ng | 0.00 |
| Target Compounds | | | | | | Qvalue |
| 2) 1,4-Dioxane | 3.304 | 88 | 1507 | 0.218 | ng | # 84 |
| 34) Bis(2-ethylhexyl)phtha... | 21.340 | 149 | 2119 | 0.179 | ng | 100 |

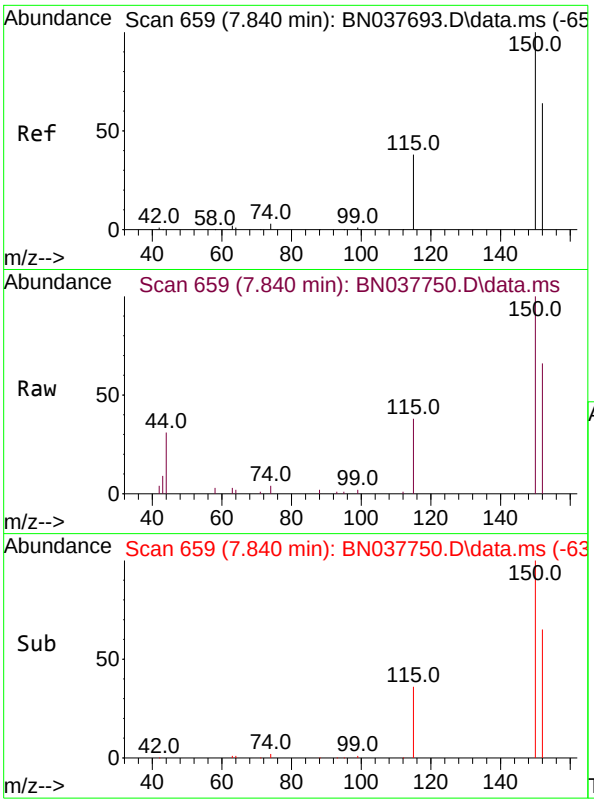
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN091725\
Data File : BN037750.D
Acq On : 17 Sep 2025 17:36
Operator : RC/JU
Sample : Q3095-04
Misc :
ALS Vial : 12 Sample Multiplier: 1

**Instrument :**
BNA_N
**ClientSampleId :**
MW179D1-20250908

Quant Time: Sep 17 18:05:06 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN091125.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Sep 11 14:20:01 2025
Response via : Initial Calibration



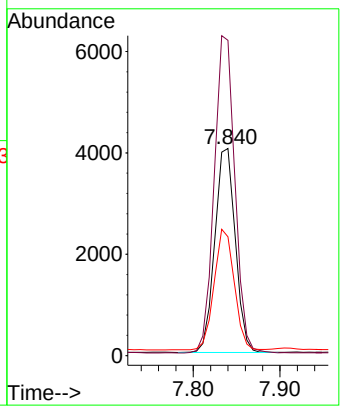


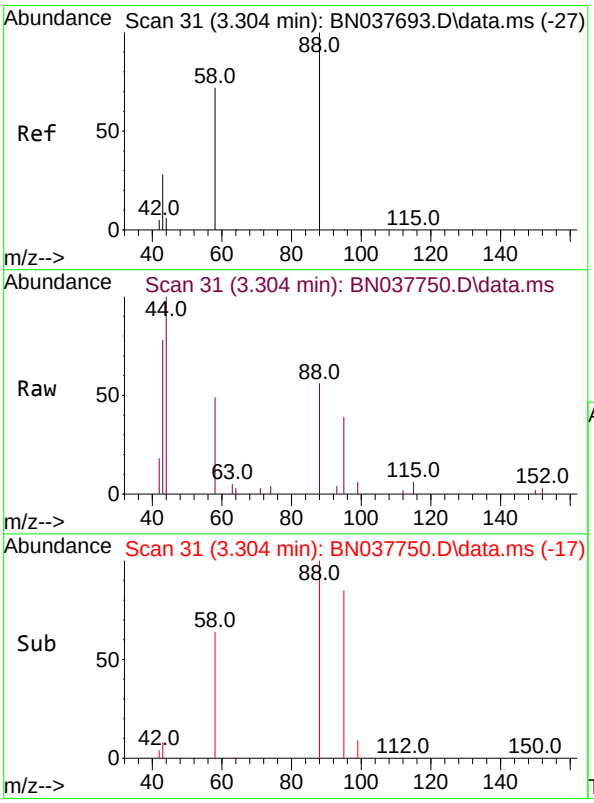

#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.840 min Scan# 6
Delta R.T. -0.000 min
Lab File: BN037750.D
Acq: 17 Sep 2025 17:36

**Instrument :**
BNA_N
**ClientSampleId :**
MW179D1-20250908

Tgt Ion:152 Resp: 6641

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 150 | 152.2 | 124.5 | 186.7 |
| 115 | 57.4 | 49.2 | 73.8 |

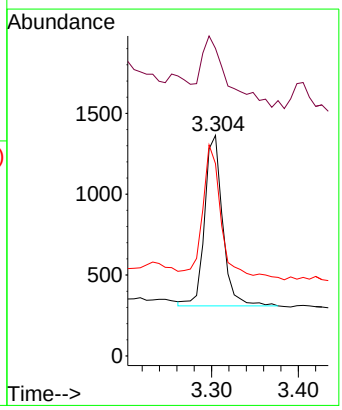


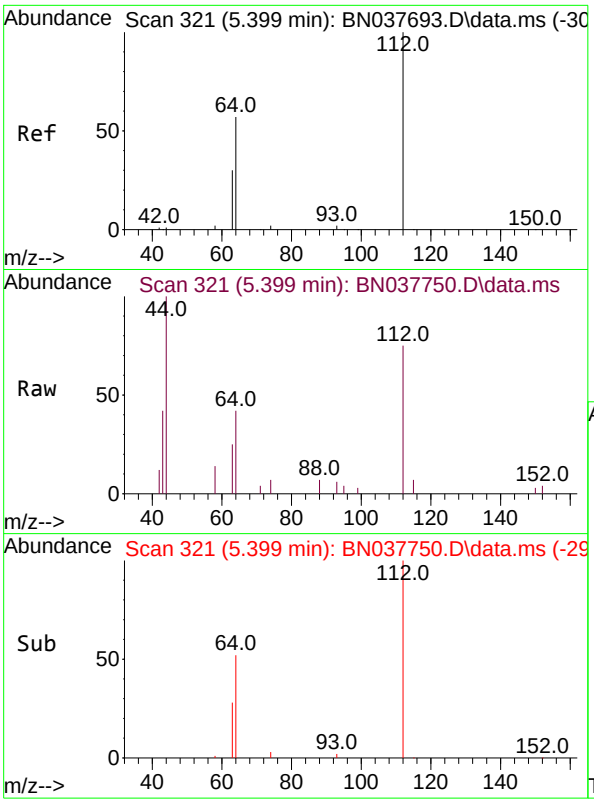




#2
1,4-Dioxane
Concen: 0.218 ng
RT: 3.304 min Scan# 31
Delta R.T. -0.000 min
Lab File: BN037750.D
Acq: 17 Sep 2025 17:36

Tgt Ion: 88 Resp: 1507

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 88 | 100 | | |
| 43 | 61.9 | 26.8 | 40.2# |
| 58 | 79.1 | 61.9 | 92.9 |



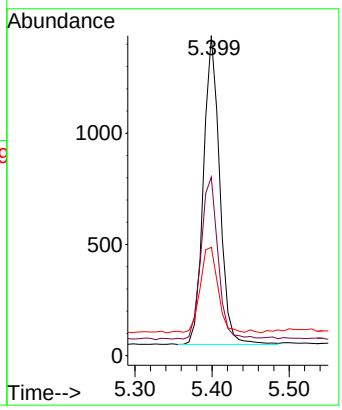


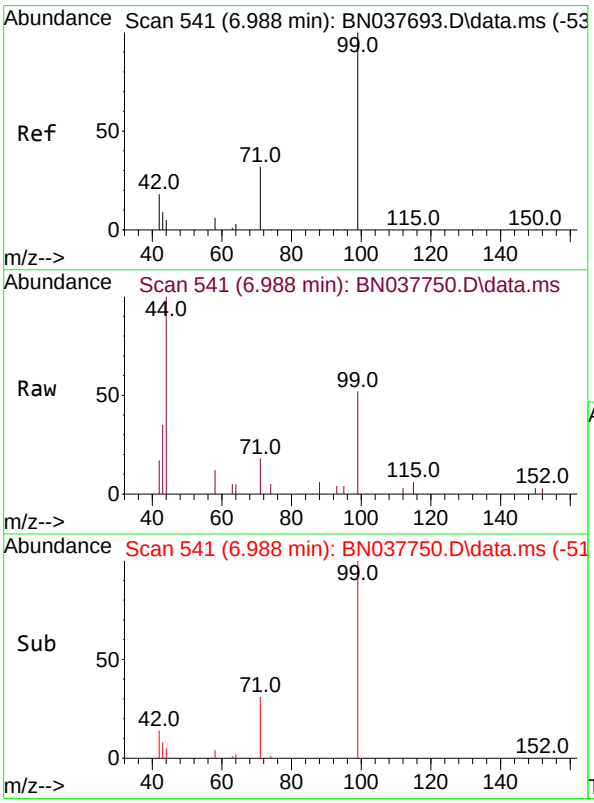

#4
2-Fluorophenol
Concen: 0.134 ng
RT: 5.399 min Scan# 3
Delta R.T. -0.000 min
Lab File: BN037750.D
Acq: 17 Sep 2025 17:36

**Instrument :**
BNA_N
**ClientSampleId :**
MW179D1-20250908

Tgt Ion:112 Resp: 2038

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 112 | 100 | | |
| 64 | 54.4 | 44.9 | 67.3 |
| 63 | 30.1 | 24.7 | 37.1 |

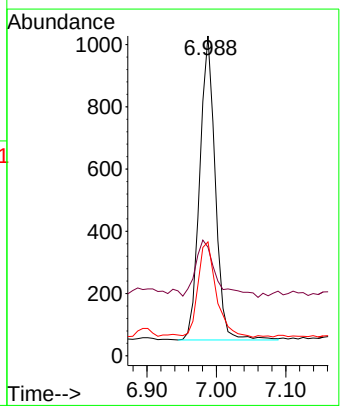


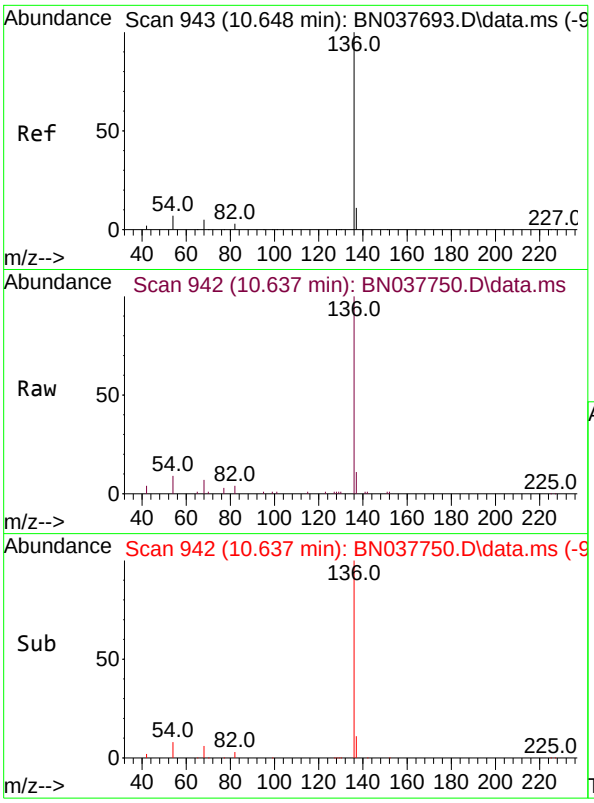




#5
Phenol-d6
Concen: 0.077 ng
RT: 6.988 min Scan# 541
Delta R.T. -0.000 min
Lab File: BN037750.D
Acq: 17 Sep 2025 17:36

Tgt Ion: 99 Resp: 1521

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 99 | 100 | | |
| 42 | 24.6 | 16.6 | 24.8 |
| 71 | 36.8 | 26.7 | 40.1 |



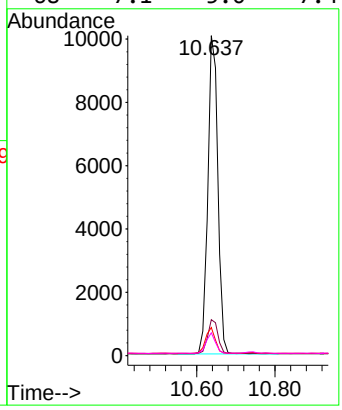


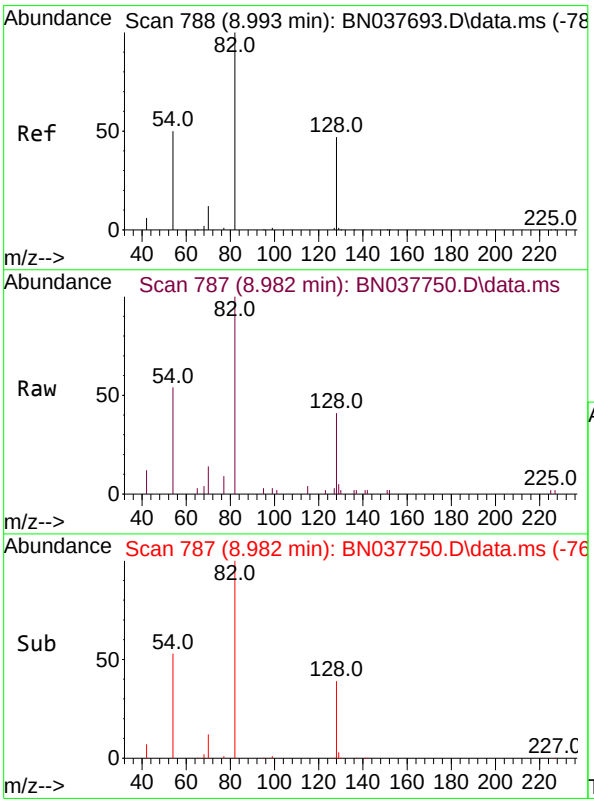

#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.637 min Scan# 94
Delta R.T. -0.011 min
Lab File: BN037750.D
Acq: 17 Sep 2025 17:36

**Instrument :**
BNA_N
**ClientSampleId :**
MW179D1-20250908

Tgt Ion:136 Resp: 17861

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 136 | 100 | | |
| 137 | 11.2 | 9.1 | 13.7 |
| 54 | 8.8 | 6.3 | 9.5 |
| 68 | 7.1 | 5.0 | 7.4 |

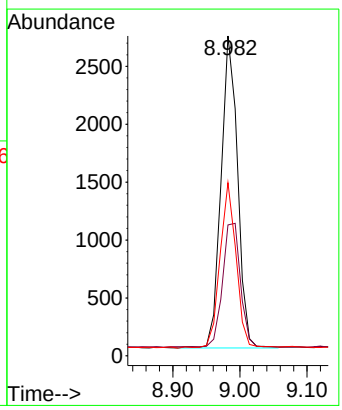


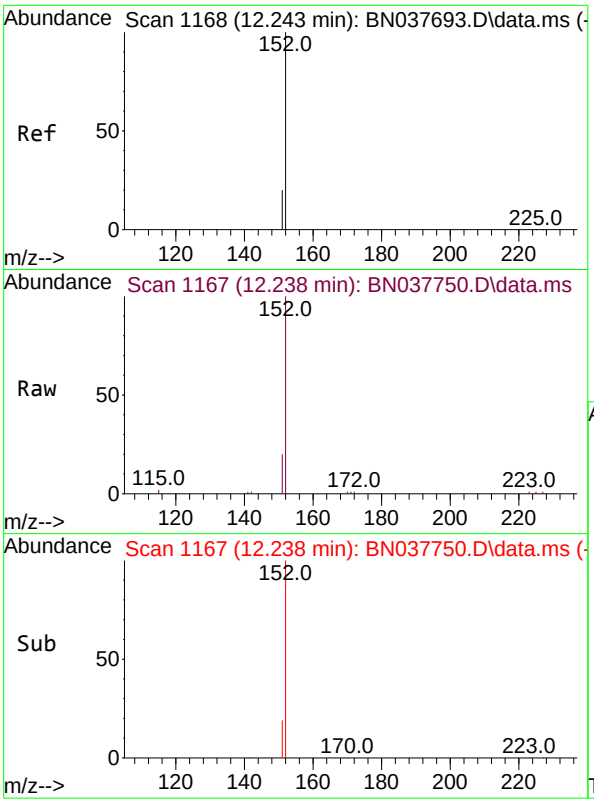




#8
Nitrobenzene-d5
Concen: 0.353 ng
RT: 8.982 min Scan# 787
Delta R.T. -0.011 min
Lab File: BN037750.D
Acq: 17 Sep 2025 17:36

Tgt Ion: 82 Resp: 4613

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 82 | 100 | | |
| 128 | 40.9 | 38.3 | 57.5 |
| 54 | 54.1 | 41.4 | 62.2 |



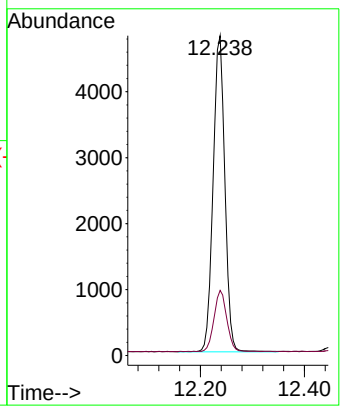


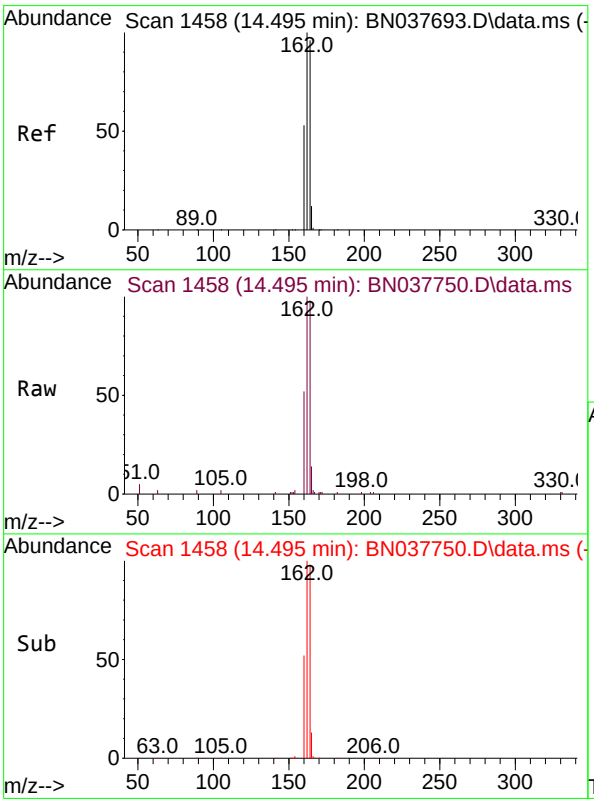

#11
2-Methylnaphthalene-d10
Concen: 0.317 ng
RT: 12.238 min Scan# 11
Delta R.T. -0.005 min
Lab File: BN037750.D
Acq: 17 Sep 2025 17:36

**Instrument :**
BNA_N
**ClientSampleId :**
MW179D1-20250908

Tgt Ion:152 Resp: 7496

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

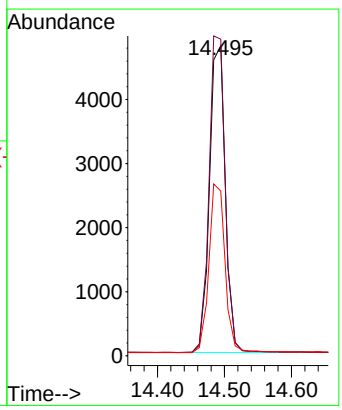


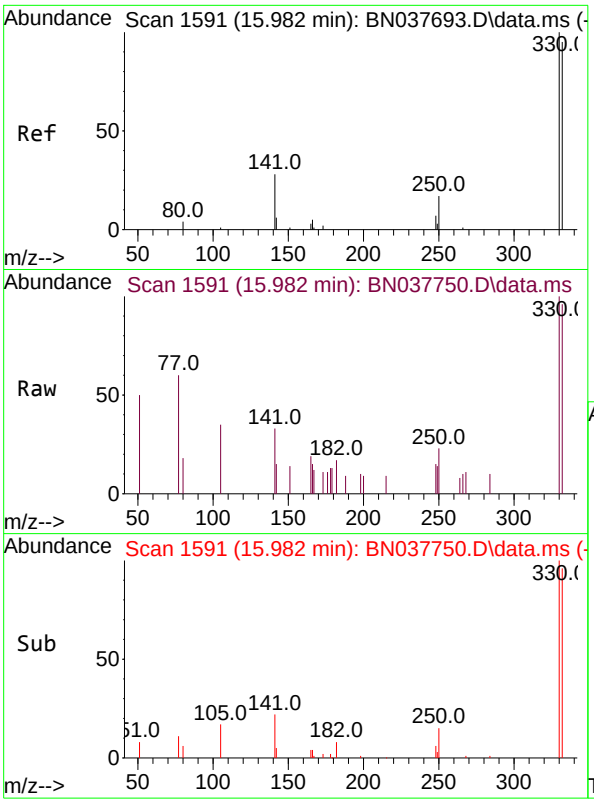




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.495 min Scan# 1458
Delta R.T. -0.000 min
Lab File: BN037750.D
Acq: 17 Sep 2025 17:36

Tgt Ion:164 Resp: 7906

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 164 | 100 | | |
| 162 | 102.2 | 83.1 | 124.7 |
| 160 | 53.2 | 44.3 | 66.5 |



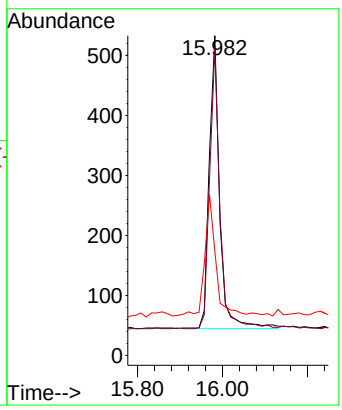


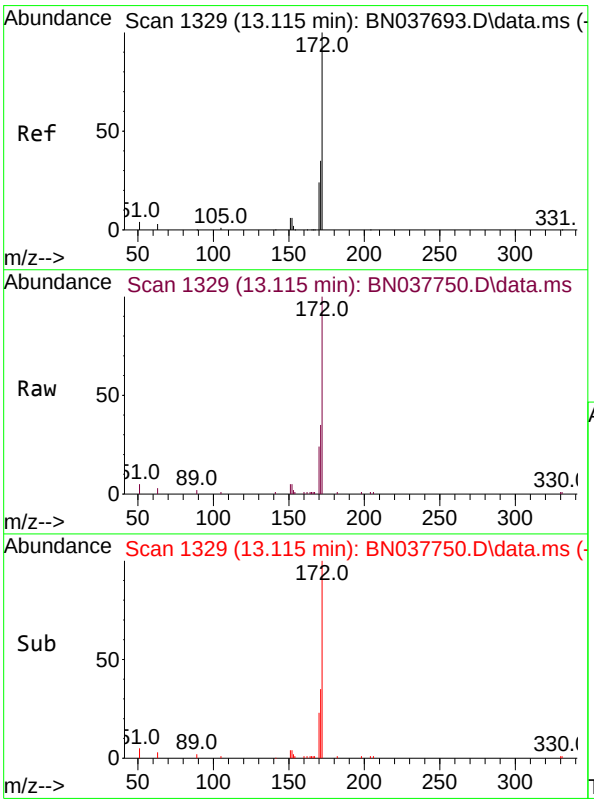

#14
2,4,6-Tribromophenol
Concen: 0.404 ng
RT: 15.982 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN037750.D
Acq: 17 Sep 2025 17:36

**Instrument :**
BNA_N
**ClientSampleId :**
MW179D1-20250908

Tgt Ion:330 Resp: 834

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 330 | 100 | | |
| 332 | 93.4 | 75.3 | 112.9 |
| 141 | 43.5 | 35.0 | 52.4 |

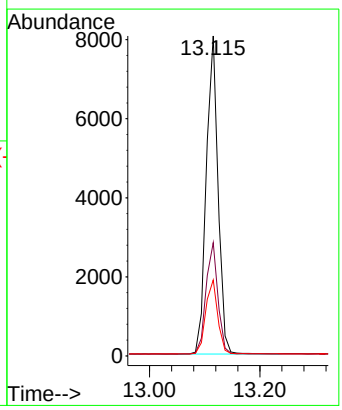


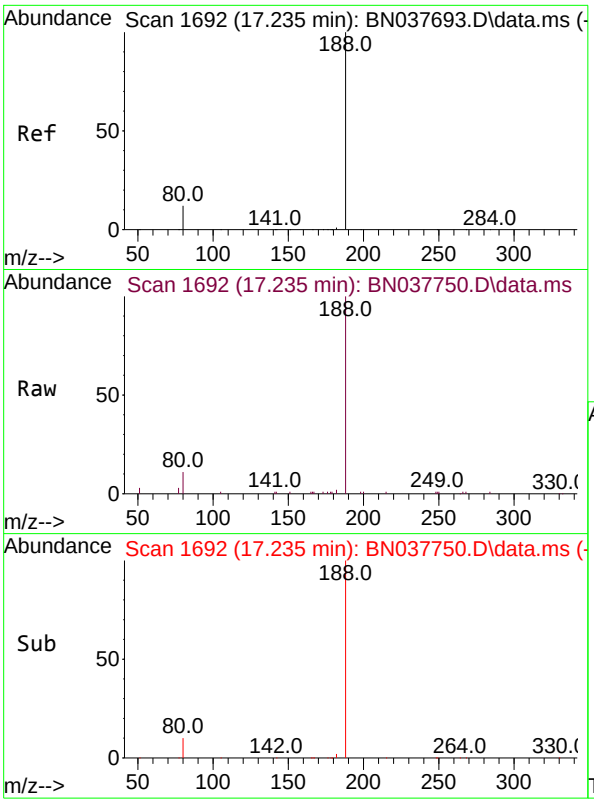




#15
2-Fluorobiphenyl
Concen: 0.359 ng
RT: 13.115 min Scan# 1329
Delta R.T. -0.000 min
Lab File: BN037750.D
Acq: 17 Sep 2025 17:36

Tgt Ion:172 Resp: 11872

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 172 | 100 | | |
| 171 | 35.4 | 28.6 | 43.0 |
| 170 | 23.7 | 19.8 | 29.8 |



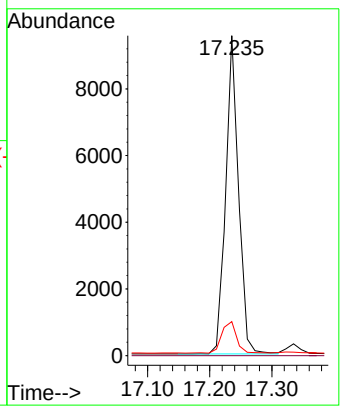


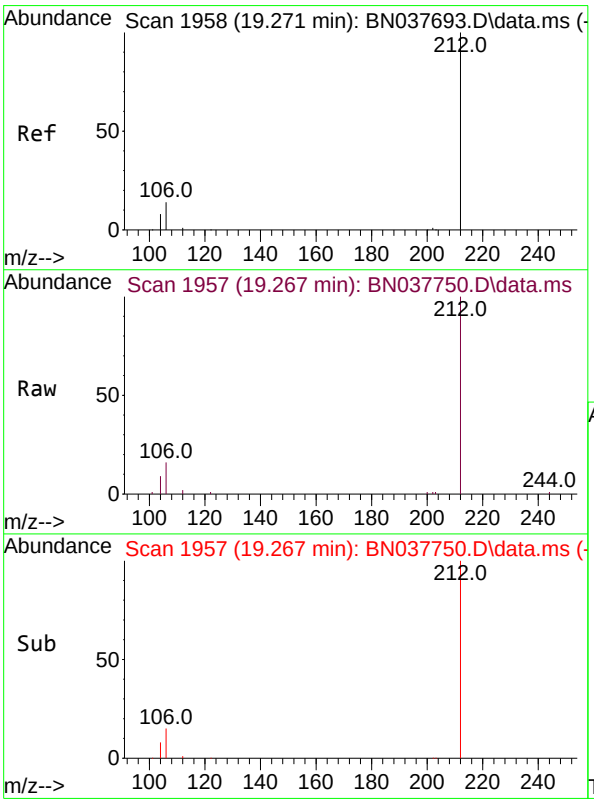

#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.235 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN037750.D
Acq: 17 Sep 2025 17:36

**Instrument :**
BNA_N
**ClientSampleId :**
MW179D1-20250908

Tgt Ion:188 Resp: 13742

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 188 | 100 | | |
| 94 | 0.0 | 0.0 | 0.0 |
| 80 | 10.6 | 10.6 | 15.8 |

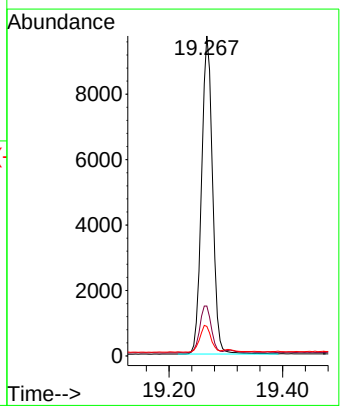


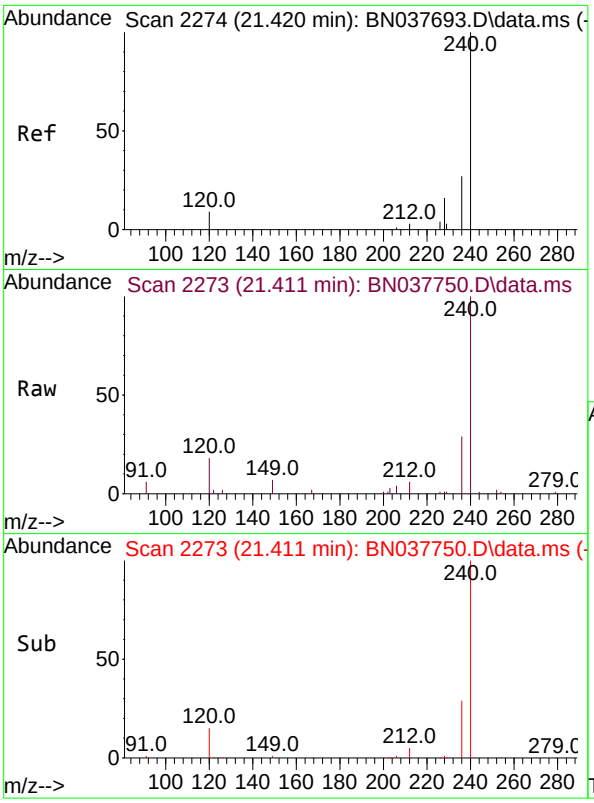




#27
Fluoranthene-d10
Concen: 0.379 ng
RT: 19.267 min Scan# 1957
Delta R.T. -0.005 min
Lab File: BN037750.D
Acq: 17 Sep 2025 17:36

Tgt Ion:212 Resp: 13070

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 212 | 100 | | |
| 106 | 15.4 | 12.2 | 18.2 |
| 104 | 8.4 | 6.9 | 10.3 |



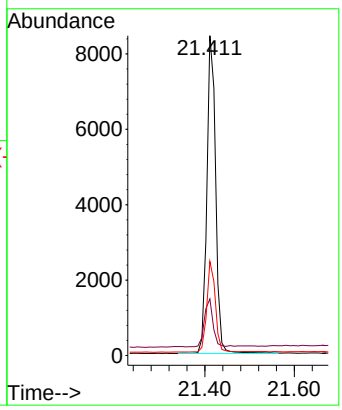


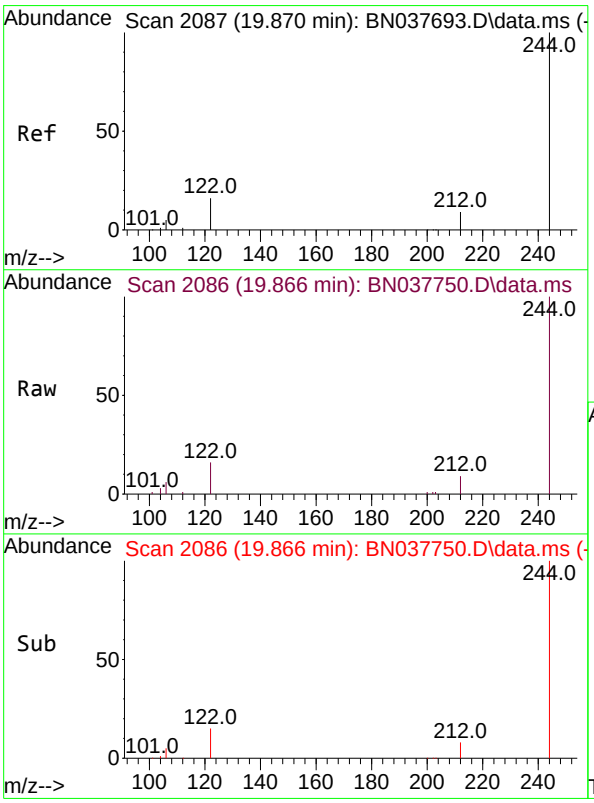

#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.411 min Scan# 2
Delta R.T. -0.009 min
Lab File: BN037750.D
Acq: 17 Sep 2025 17:36

**Instrument :**
BNA_N
**ClientSampleId :**
MW179D1-20250908

Tgt Ion:240 Resp: 11462

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 240 | 100 | | |
| 120 | 17.7 | 9.2 | 13.8# |
| 236 | 29.4 | 22.6 | 33.8 |

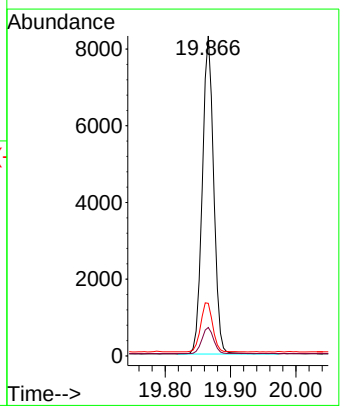


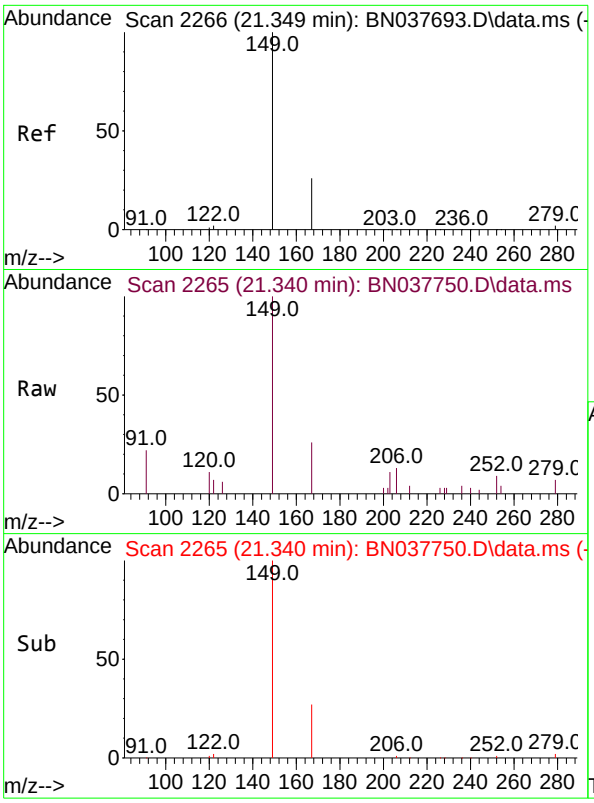




#31
Terphenyl-d14
Concen: 0.429 ng
RT: 19.866 min Scan# 2086
Delta R.T. -0.005 min
Lab File: BN037750.D
Acq: 17 Sep 2025 17:36

Tgt Ion:244 Resp: 9983

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 244 | 100 | | |
| 212 | 8.9 | 7.5 | 11.3 |
| 122 | 16.4 | 13.2 | 19.8 |



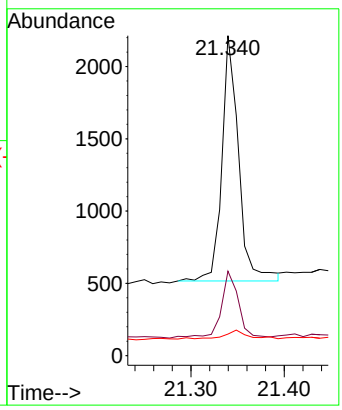


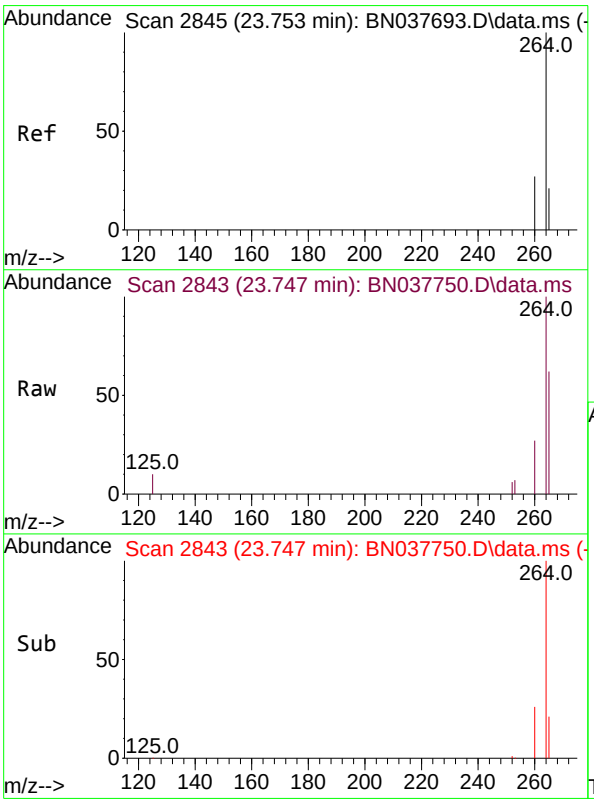

#34
Bis(2-ethylhexyl)phthalate
Concen: 0.179 ng
RT: 21.340 min Scan# 2
Delta R.T. -0.009 min
Lab File: BN037750.D
Acq: 17 Sep 2025 17:36

**Instrument :**
BNA_N
**ClientSampleId :**
MW179D1-20250908

Tgt Ion:149 Resp: 2119

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 149 | 100 | | |
| 167 | 26.0 | 20.8 | 31.2 |
| 279 | 4.6 | 3.3 | 4.9 |

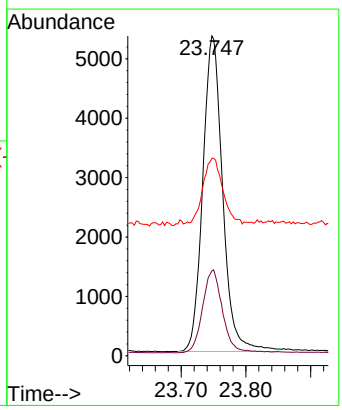



#35
Perylene-d12
Concen: 0.400 ng
RT: 23.747 min Scan# 2843
Delta R.T. -0.006 min
Lab File: BN037750.D
Acq: 17 Sep 2025 17:36

Tgt Ion:264 Resp: 11339

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 264 | 100 | | |
| 260 | 26.6 | 21.8 | 32.8 |
| 265 | 61.8 | 39.4 | 59.2# |



Raw Data: **BN037742.D**

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

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | AECOM Technical Services, Inc. | Date Collected: | 09/09/25 |
| Project: | NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258 | Date Received: | 09/12/25 |
| Client Sample ID: | MW203D2-20250909 | SDG No.: | Q3095 |
| Lab Sample ID: | Q3095-05 | Matrix: | Water |
| Analytical Method: | SW8270ESIM | % Solid: | 0 |
| Sample Wt/Vol: | 1000 Units: mL | Final Vol: | 1000 uL |
| Soil Aliquot Vol: | uL | Test: | SVOC-SIMGroup1 |
| Extraction Type : | Decanted : N | Level : | LOW |
| Injection Volume : | GPC Factor : 1.0 | GPC Cleanup : | N PH : |
| Prep Method : | | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| BN037742.D | 1 | 09/15/25 10:15 | 09/17/25 12:38 | PB169692 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOD | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | | |
| 123-91-1 | 1,4-Dioxane | 0.85 | M | 0.070 | 0.20 | 0.20 | ug/L |
| **SURROGATES** | | | | | | | |
| 7297-45-2 | 2-Methylnaphthalene-d10 | 0.29 | | 30 - 150 | | 72% | SPK: 0.4 |
| 93951-69-0 | Fluoranthene-d10 | 0.34 | | 30 - 150 | | 84% | SPK: 0.4 |
| 4165-60-0 | Nitrobenzene-d5 | 0.30 | | 55 - 111 | | 76% | SPK: 0.4 |
| 321-60-8 | 2-Fluorobiphenyl | 0.31 | | 53 - 106 | | 77% | SPK: 0.4 |
| 1718-51-0 | Terphenyl-d14 | 0.50 | | 58 - 132 | | 124% | SPK: 0.4 |
| **INTERNAL STANDARDS** | | | | | | | |
| 3855-82-1 | 1,4-Dichlorobenzene-d4 | 7540 | 7.84 | | | | |
| 1146-65-2 | Naphthalene-d8 | 21000 | 10.648 | | | | |
| 15067-26-2 | Acenaphthene-d10 | 9820 | 14.494 | | | | |
| 1517-22-2 | Phenanthrene-d10 | 16800 | 17.235 | | | | |
| 1719-03-5 | Chrysene-d12 | 12700 | 21.411 | | | | |
| 1520-96-3 | Perylene-d12 | 12600 | 23.75 | | | | |

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\BN091725\
Data File : BN037742.D
Acq On : 17 Sep 2025 12:38
Operator : RC/JU
Sample : Q3095-05
Misc :
ALS Vial : 4 Sample Multiplier: 1

**Instrument :**
BNA_N
**ClientSampleId :**
MW203D2-20250909

Quant Time: Sep 17 13:16:40 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN091125.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Sep 11 14:20:01 2025
Response via : Initial Calibration

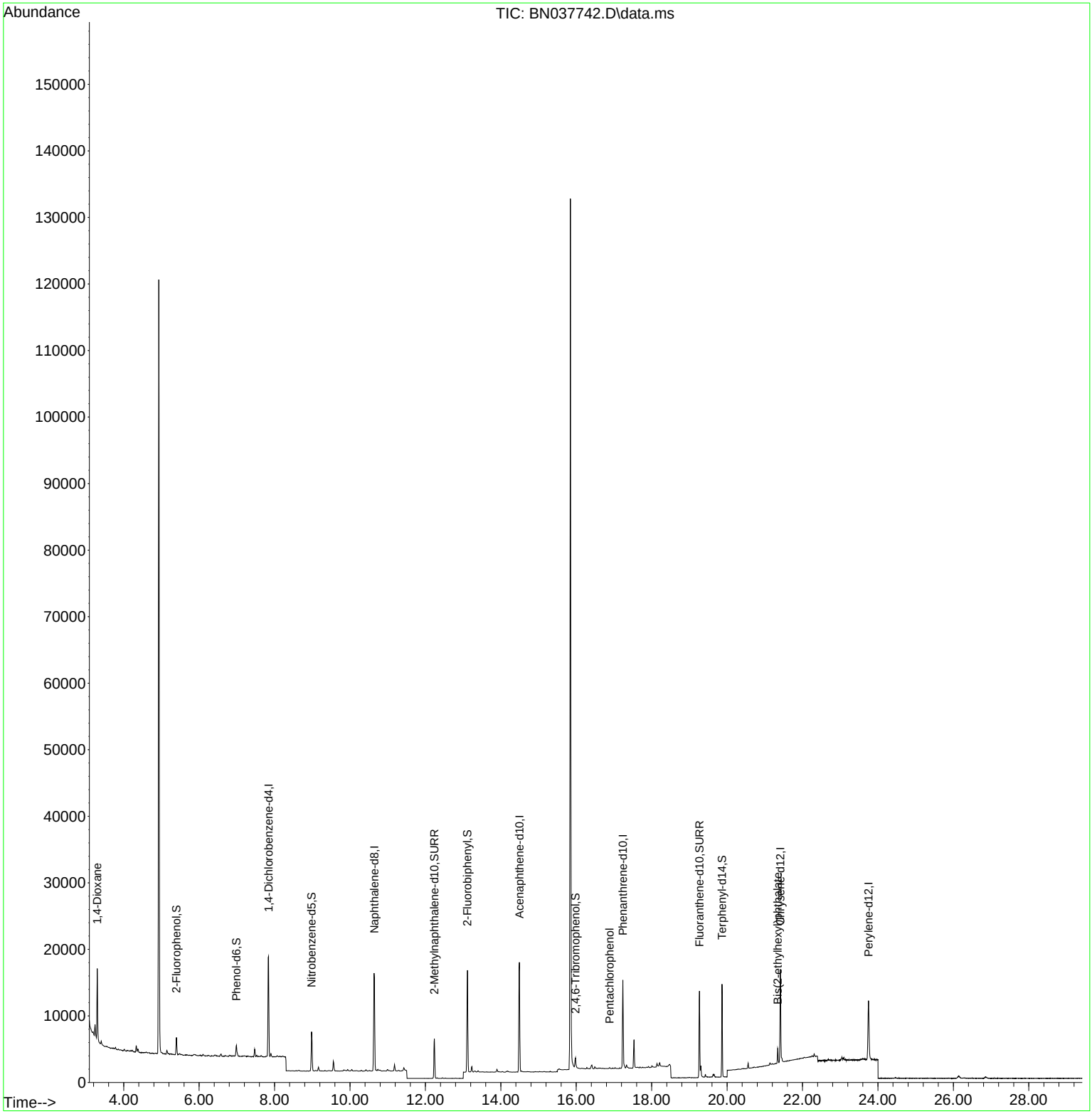
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) 1,4-Dichlorobenzene-d4 | 7.840 | 152 | 7535 | 0.400 | ng | 0.00 |
| 7) Naphthalene-d8 | 10.648 | 136 | 20988 | 0.400 | ng | # 0.00 |
| 13) Acenaphthene-d10 | 14.494 | 164 | 9821 | 0.400 | ng | 0.00 |
| 19) Phenanthrene-d10 | 17.235 | 188 | 16837 | 0.400 | ng | # 0.00 |
| 29) Chrysene-d12 | 21.411 | 240 | 12718 | 0.400 | ng | # 0.00 |
| 35) Perylene-d12 | 23.750 | 264 | 12632 | 0.400 | ng | 0.00 |
| System Monitoring Compounds | | | | | | |
| 4) 2-Fluorophenol | 5.399 | 112 | 2083 | 0.120 | ng | 0.00 |
| 5) Phenol-d6 | 6.988 | 99 | 1575 | 0.070 | ng | 0.00 |
| 8) Nitrobenzene-d5 | 8.982 | 82 | 4648 | 0.303 | ng | -0.01 |
| 11) 2-Methylnaphthalene-d10 | 12.238 | 152 | 8034 | 0.289 | ng | 0.00 |
| 14) 2,4,6-Tribromophenol | 15.982 | 330 | 991 | 0.387 | ng | 0.00 |
| 15) 2-Fluorobiphenyl | 13.115 | 172 | 12659 | 0.308 | ng | 0.00 |
| 27) Fluoranthene-d10 | 19.266 | 212 | 14185 | 0.336 | ng | 0.00 |
| 31) Terphenyl-d14 | 19.866 | 244 | 12772 | 0.495 | ng | 0.00 |
| Target Compounds | | | | | | Qvalue |
| 2) 1,4-Dioxane | 3.297 | 88 | 6702 | 0.854 | ng | 94 |
| 24) Pentachlorophenol | 16.888 | 266 | 114 | 0.031 | ng | # 88 |
| 34) Bis(2-ethylhexyl)phtha... | 21.340 | 149 | 2491 | 0.189 | ng | 99 |

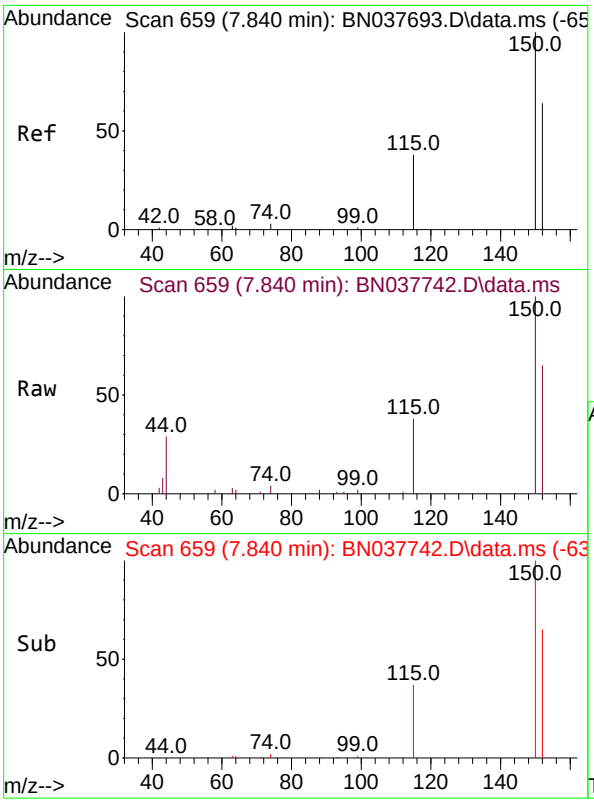
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN091725\
Data File : BN037742.D
Acq On : 17 Sep 2025 12:38
Operator : RC/JU
Sample : Q3095-05
Misc :
ALS Vial : 4 Sample Multiplier: 1

**Instrument :**
BNA_N
**ClientSampleId :**
MW203D2-20250909

Quant Time: Sep 17 13:16:40 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN091125.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Sep 11 14:20:01 2025
Response via : Initial Calibration



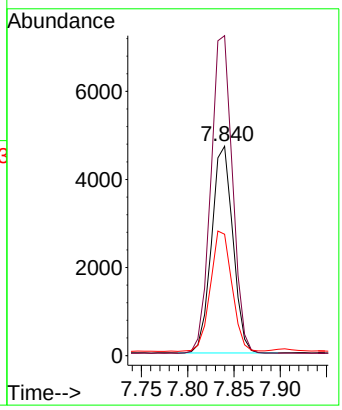


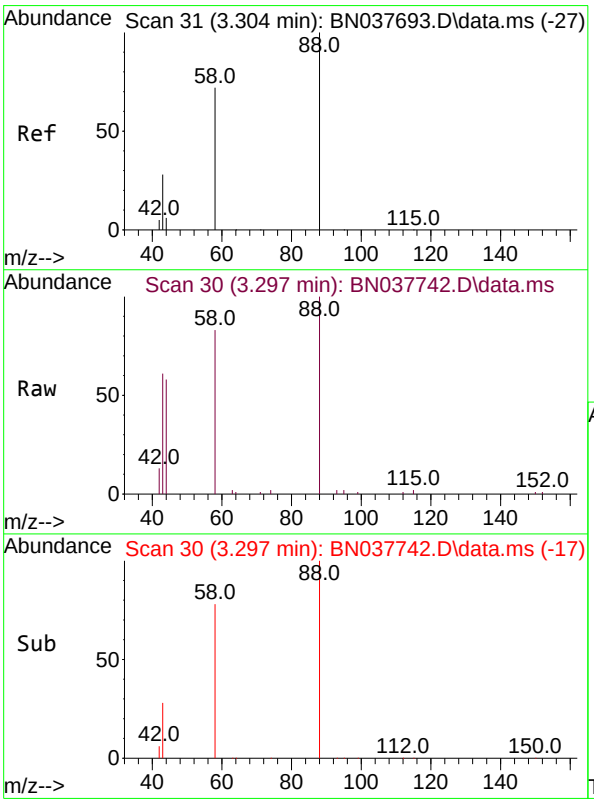

#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.840 min Scan# 6
Delta R.T. -0.000 min
Lab File: BN037742.D
Acq: 17 Sep 2025 12:38

**Instrument :**
BNA_N
**ClientSampleId :**
MW203D2-20250909

Tgt Ion:152 Resp: 7535

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 150 | 152.8 | 124.5 | 186.7 |
| 115 | 57.9 | 49.2 | 73.8 |

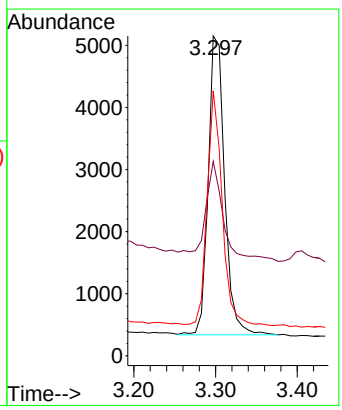


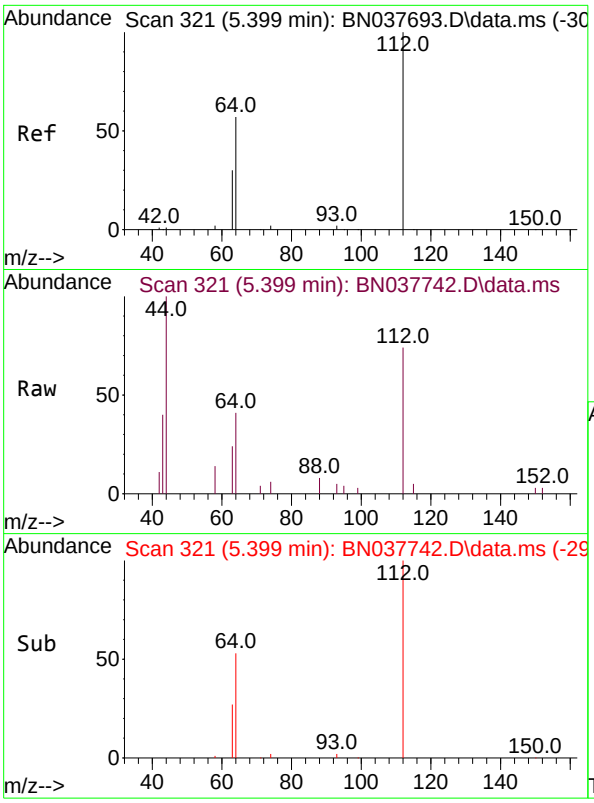




#2
1,4-Dioxane
Concen: 0.854 ng
RT: 3.297 min Scan# 30
Delta R.T. -0.007 min
Lab File: BN037742.D
Acq: 17 Sep 2025 12:38

Tgt Ion: 88 Resp: 6702

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 88 | 100 | | |
| 43 | 36.2 | 26.8 | 40.2 |
| 58 | 72.0 | 61.9 | 92.9 |



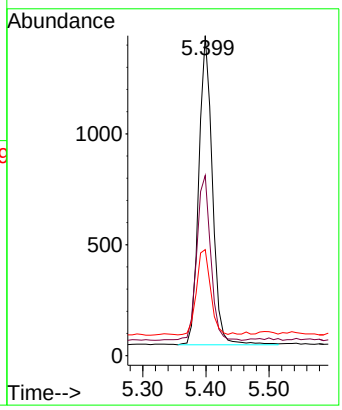


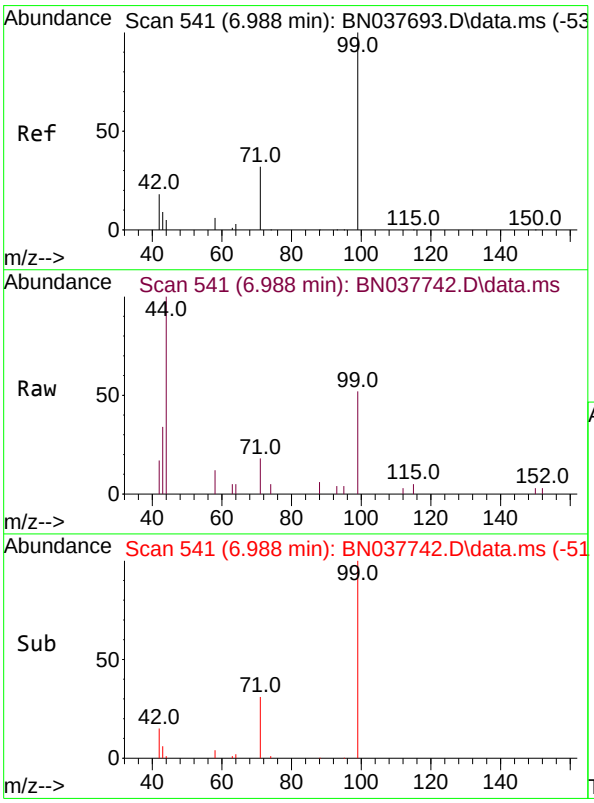

#4
2-Fluorophenol
Concen: 0.120 ng
RT: 5.399 min Scan# 3
Delta R.T. -0.000 min
Lab File: BN037742.D
Acq: 17 Sep 2025 12:38

**Instrument :**
BNA_N
**ClientSampleId :**
MW203D2-20250909

Tgt Ion:112 Resp: 2083

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 112 | 100 | | |
| 64 | 54.4 | 44.9 | 67.3 |
| 63 | 28.4 | 24.7 | 37.1 |

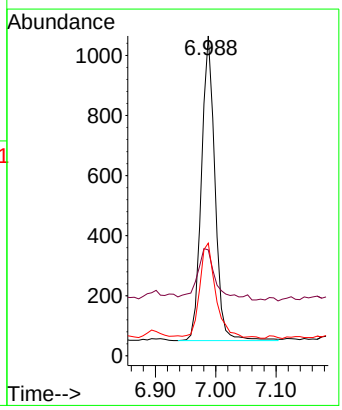


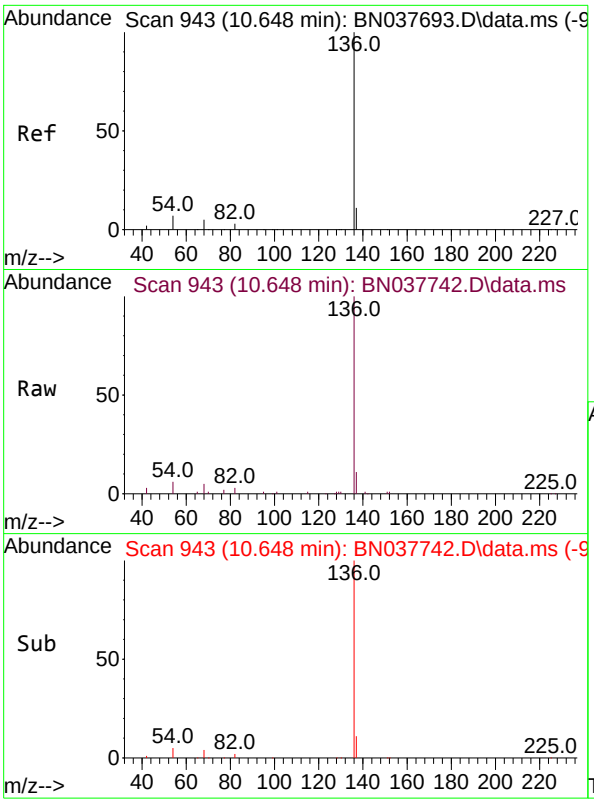




#5
Phenol-d6
Concen: 0.070 ng
RT: 6.988 min Scan# 541
Delta R.T. -0.000 min
Lab File: BN037742.D
Acq: 17 Sep 2025 12:38

Tgt Ion: 99 Resp: 1575

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 99 | 100 | | |
| 42 | 23.1 | 16.6 | 24.8 |
| 71 | 37.5 | 26.7 | 40.1 |



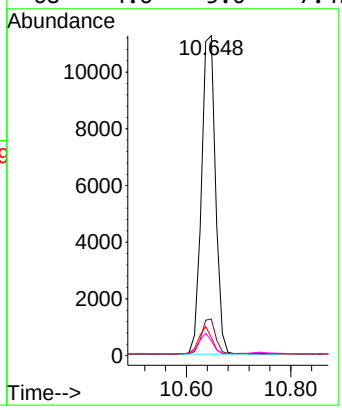


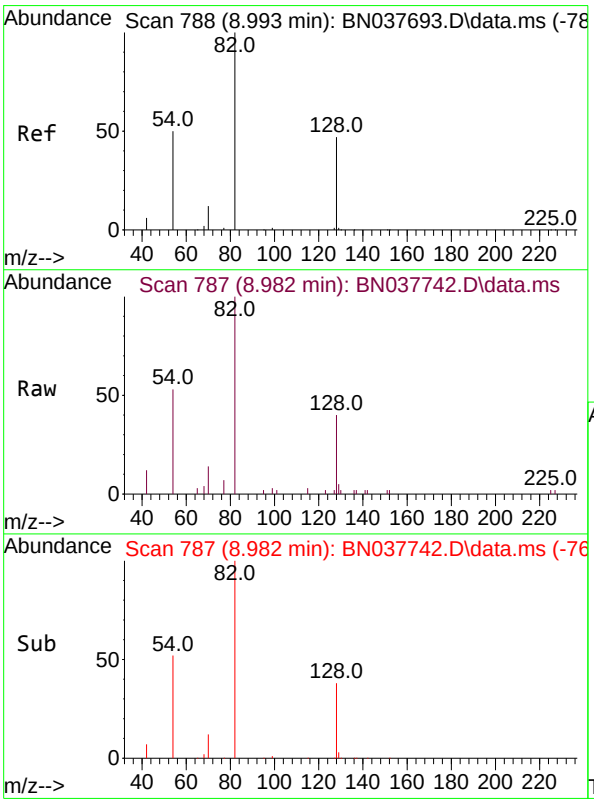

#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.648 min Scan# 94
Delta R.T. -0.000 min
Lab File: BN037742.D
Acq: 17 Sep 2025 12:38

**Instrument :**
BNA_N
**ClientSampleId :**
MW203D2-20250909

Tgt Ion:136 Resp: 20988

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 136 | 100 | | |
| 137 | 11.4 | 9.1 | 13.7 |
| 54 | 5.7 | 6.3 | 9.5# |
| 68 | 4.6 | 5.0 | 7.4# |

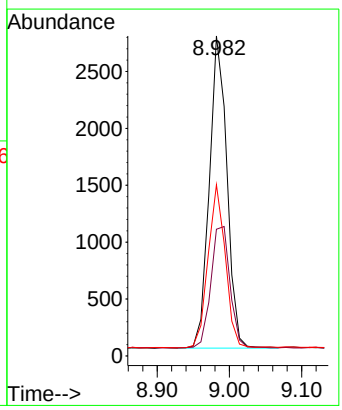


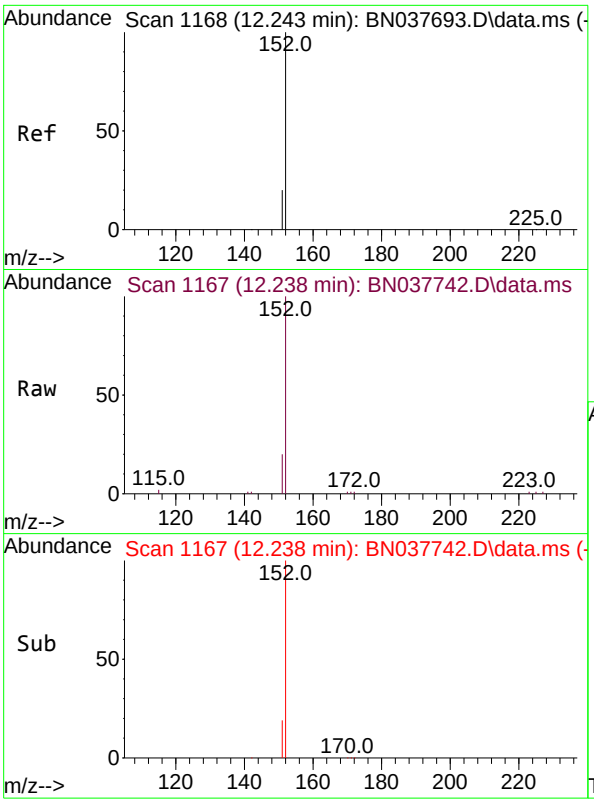




#8
Nitrobenzene-d5
Concen: 0.303 ng
RT: 8.982 min Scan# 787
Delta R.T. -0.011 min
Lab File: BN037742.D
Acq: 17 Sep 2025 12:38

Tgt Ion: 82 Resp: 4648

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 82 | 100 | | |
| 128 | 39.6 | 38.3 | 57.5 |
| 54 | 53.5 | 41.4 | 62.2 |



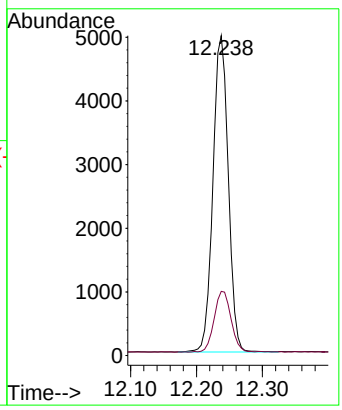


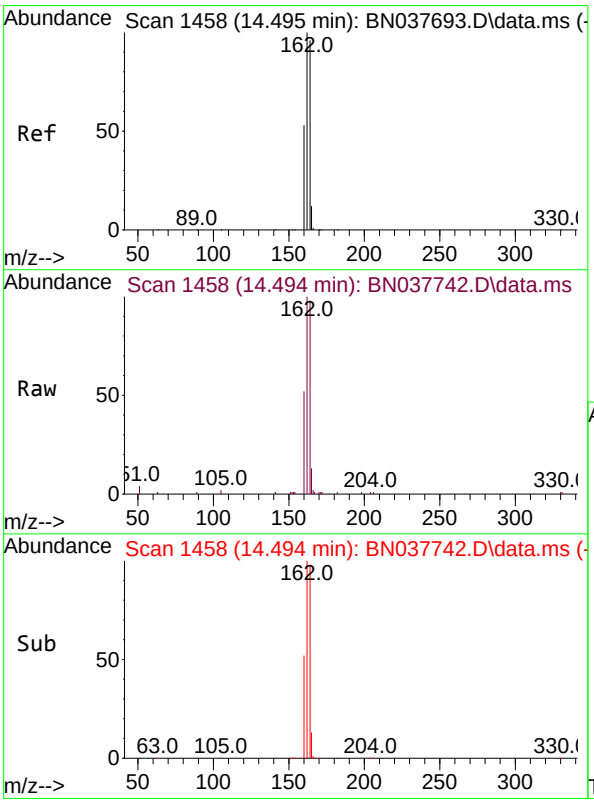

#11
2-Methylnaphthalene-d10
Concen: 0.289 ng
RT: 12.238 min Scan# 11
Delta R.T. -0.005 min
Lab File: BN037742.D
Acq: 17 Sep 2025 12:38

**Instrument :**
BNA_N
**ClientSampleId :**
MW203D2-20250909

Tgt Ion:152 Resp: 8034

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

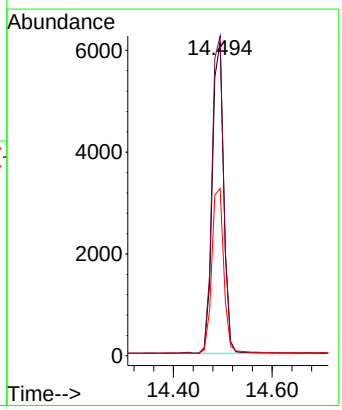


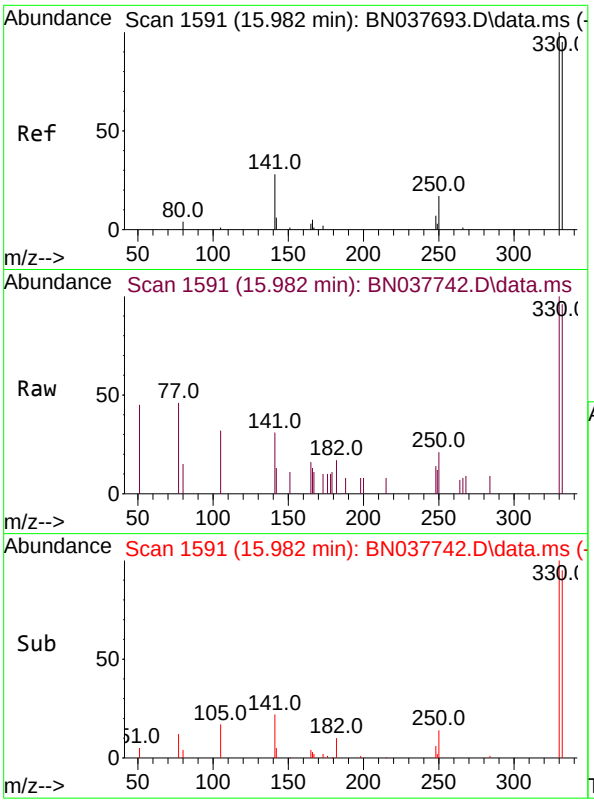




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.494 min Scan# 1458
Delta R.T. -0.000 min
Lab File: BN037742.D
Acq: 17 Sep 2025 12:38

Tgt Ion:164 Resp: 9821

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 164 | 100 | | |
| 162 | 102.0 | 83.1 | 124.7 |
| 160 | 53.3 | 44.3 | 66.5 |



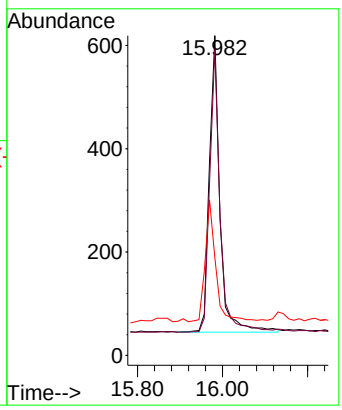


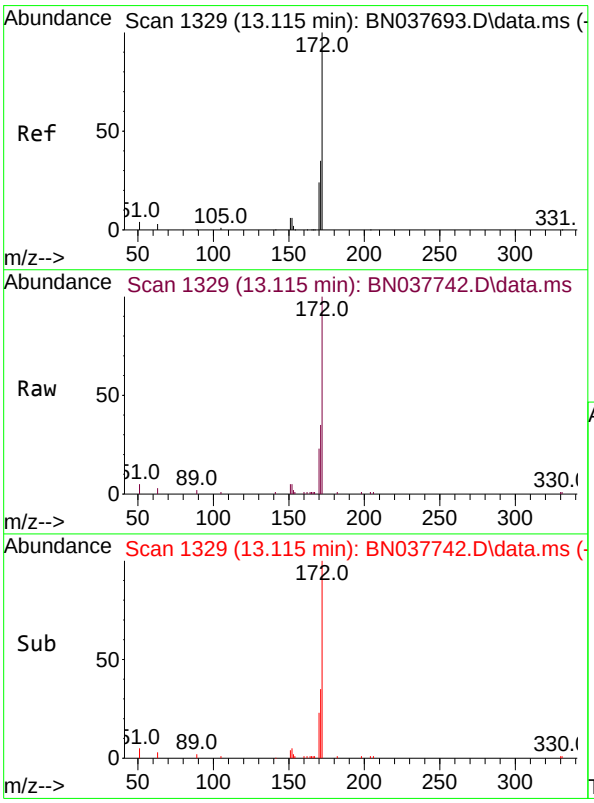

#14
2,4,6-Tribromophenol
Concen: 0.387 ng
RT: 15.982 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN037742.D
Acq: 17 Sep 2025 12:38

**Instrument :**
BNA_N
**ClientSampleId :**
MW203D2-20250909

Tgt Ion:330 Resp: 991

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 330 | 100 | | |
| 332 | 93.6 | 75.3 | 112.9 |
| 141 | 40.7 | 35.0 | 52.4 |

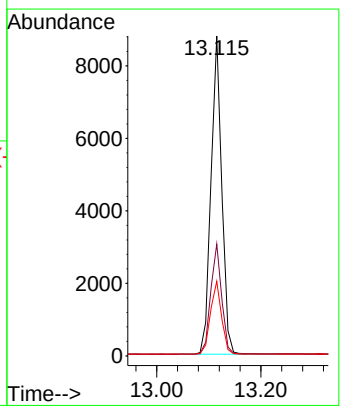


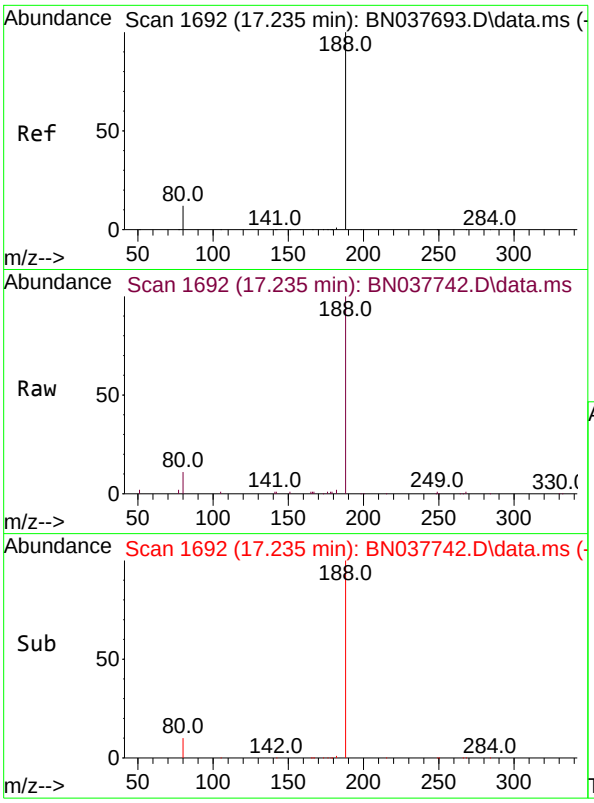




#15
2-Fluorobiphenyl
Concen: 0.308 ng
RT: 13.115 min Scan# 1329
Delta R.T. -0.000 min
Lab File: BN037742.D
Acq: 17 Sep 2025 12:38

Tgt Ion:172 Resp: 12659

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 172 | 100 | | |
| 171 | 35.0 | 28.6 | 43.0 |
| 170 | 23.3 | 19.8 | 29.8 |



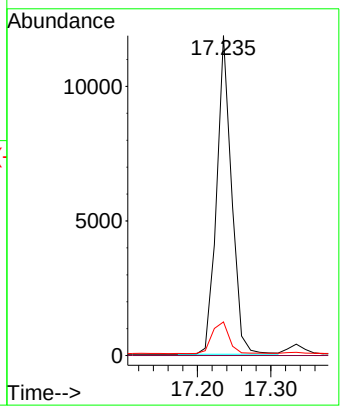


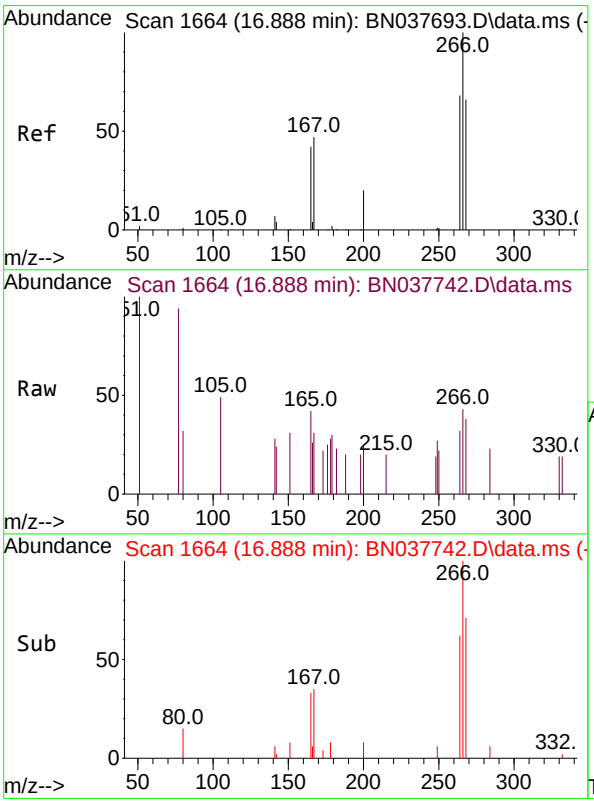

#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.235 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN037742.D
Acq: 17 Sep 2025 12:38

**Instrument :**
BNA_N
**ClientSampleId :**
MW203D2-20250909

Tgt Ion:188 Resp: 16837

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 188 | 100 | | |
| 94 | 0.0 | 0.0 | 0.0 |
| 80 | 10.5 | 10.6 | 15.8# |

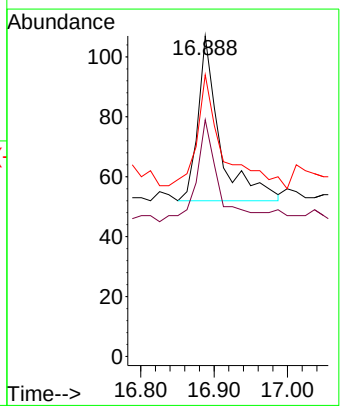


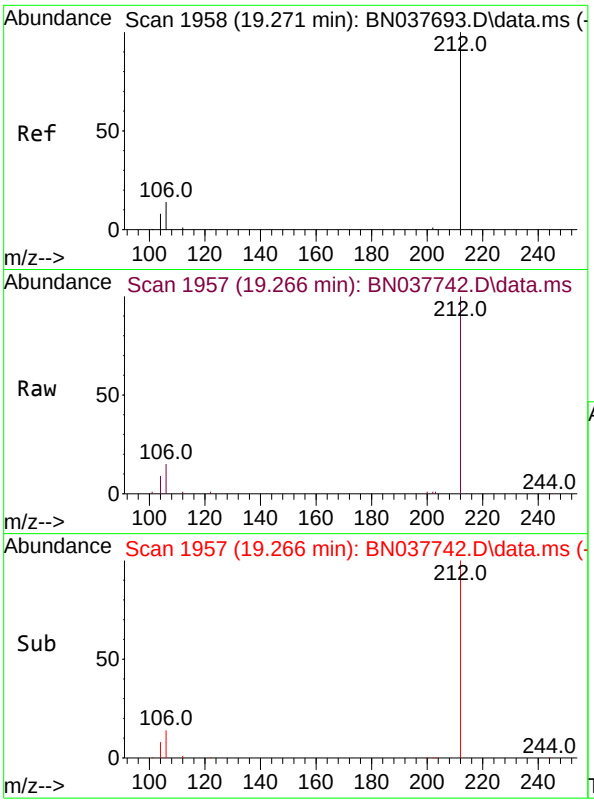




#24
Pentachlorophenol
Concen: 0.031 ng
RT: 16.888 min Scan# 1664
Delta R.T. -0.000 min
Lab File: BN037742.D
Acq: 17 Sep 2025 12:38

Tgt Ion:266 Resp: 114

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 266 | 100 | | |
| 264 | 61.4 | 51.6 | 77.4 |
| 268 | 81.6 | 53.2 | 79.8# |



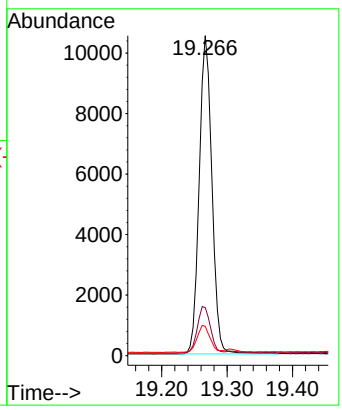


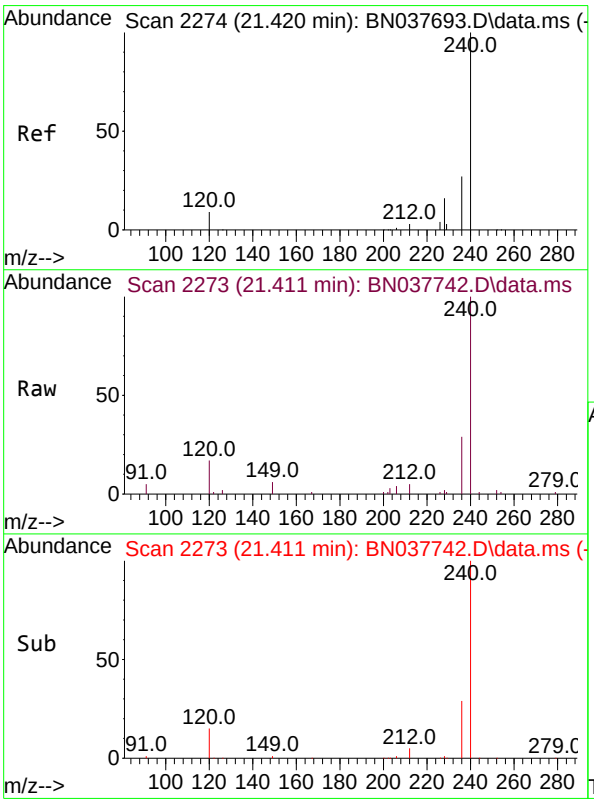

#27
Fluoranthene-d10
Concen: 0.336 ng
RT: 19.266 min Scan# 19
Delta R.T. -0.005 min
Lab File: BN037742.D
Acq: 17 Sep 2025 12:38

**Instrument :**
BNA_N
**ClientSampleId :**
MW203D2-20250909

Tgt Ion:212 Resp: 14185

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 212 | 100 | | |
| 106 | 15.0 | 12.2 | 18.2 |
| 104 | 8.6 | 6.9 | 10.3 |

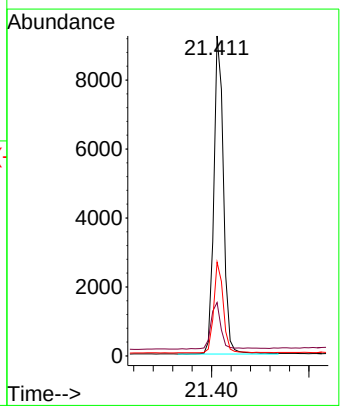


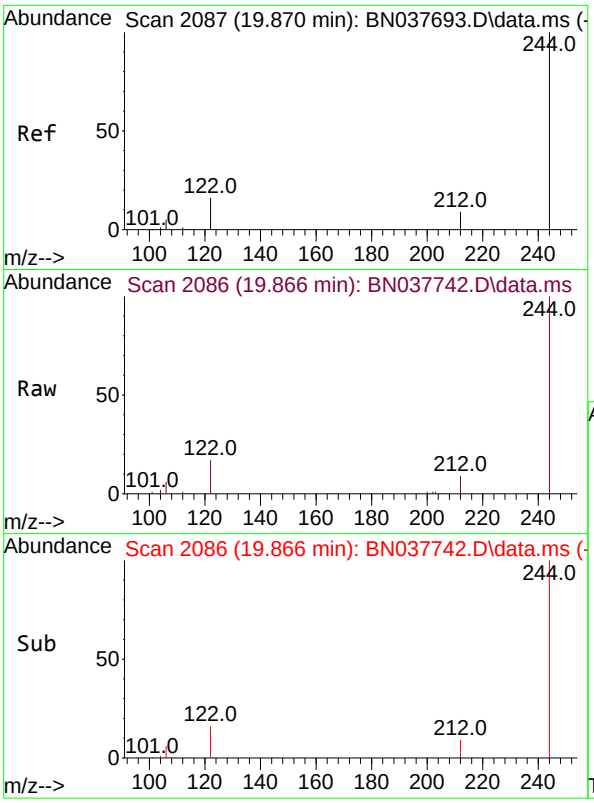




#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.411 min Scan# 2273
Delta R.T. -0.009 min
Lab File: BN037742.D
Acq: 17 Sep 2025 12:38

Tgt Ion:240 Resp: 12718

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 240 | 100 | | |
| 120 | 16.7 | 9.2 | 13.8# |
| 236 | 29.3 | 22.6 | 33.8 |



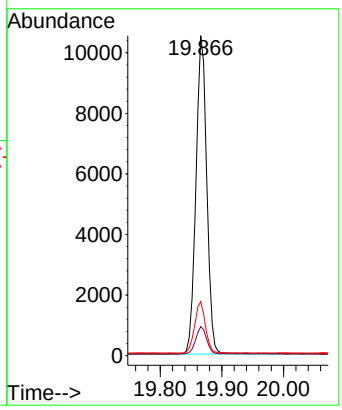


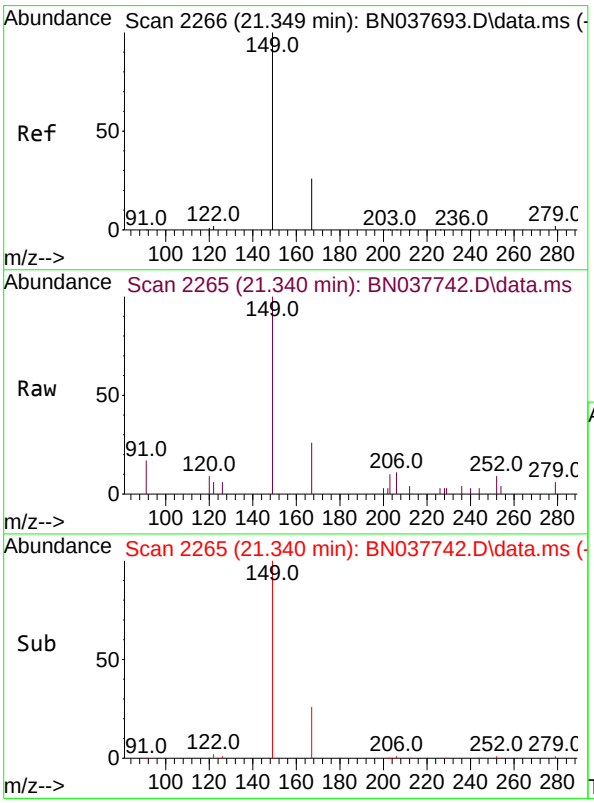

#31
Terphenyl-d14
Concen: 0.495 ng
RT: 19.866 min Scan# 20
Delta R.T. -0.005 min
Lab File: BN037742.D
Acq: 17 Sep 2025 12:38

**Instrument :**
BNA_N
**ClientSampleId :**
MW203D2-20250909

Tgt Ion:244 Resp: 12772

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 244 | 100 | | |
| 212 | 9.1 | 7.5 | 11.3 |
| 122 | 16.9 | 13.2 | 19.8 |

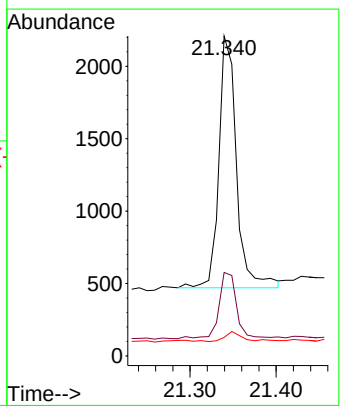


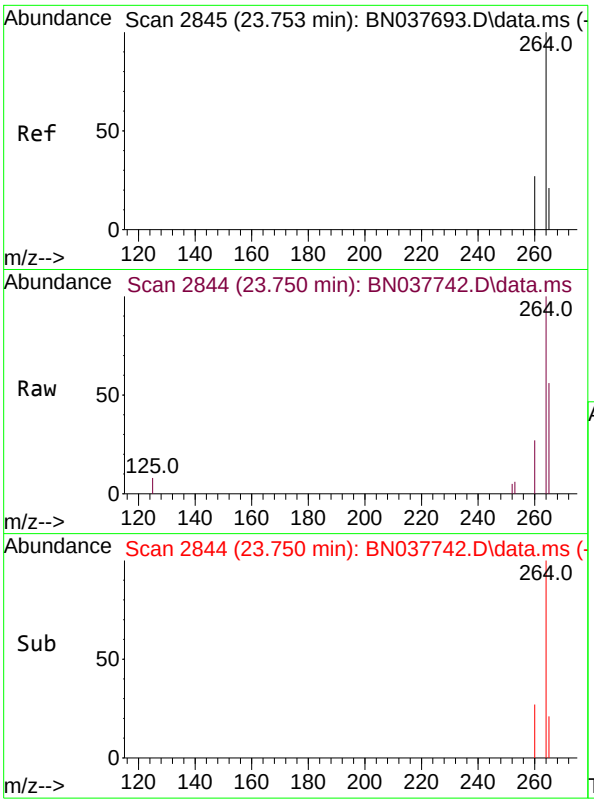




#34
Bis(2-ethylhexyl)phthalate
Concen: 0.189 ng
RT: 21.340 min Scan# 2265
Delta R.T. -0.009 min
Lab File: BN037742.D
Acq: 17 Sep 2025 12:38

Tgt Ion:149 Resp: 2491

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 149 | 100 | | |
| 167 | 26.2 | 20.8 | 31.2 |
| 279 | 3.6 | 3.3 | 4.9 |



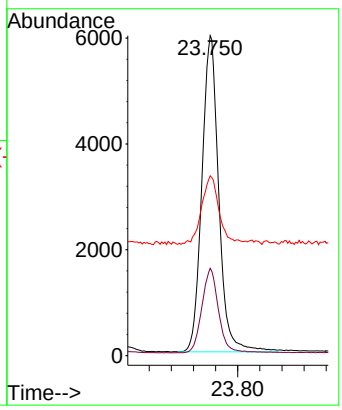



#35
Perylene-d12
Concen: 0.400 ng
RT: 23.750 min Scan# 2
Delta R.T. -0.003 min
Lab File: BN037742.D
Acq: 17 Sep 2025 12:38

**Instrument :**
BNA_N
**ClientSampleId :**
MW203D2-20250909

Tgt Ion:264 Resp: 12632

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 264 | 100 | | |
| 260 | 27.3 | 21.8 | 32.8 |
| 265 | 56.2 | 39.4 | 59.2 |



Raw Data: **BN037751.D**

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

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | AECOM Technical Services, Inc. | Date Collected: | 09/09/25 |
| Project: | NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258 | Date Received: | 09/12/25 |
| Client Sample ID: | MW203D1-20250909 | SDG No.: | Q3095 |
| Lab Sample ID: | Q3095-08 | Matrix: | Water |
| Analytical Method: | SW8270ESIM | % Solid: | 0 |
| Sample Wt/Vol: | 1000 Units: mL | Final Vol: | 1000 uL |
| Soil Aliquot Vol: | uL | Test: | SVOC-SIMGroup1 |
| Extraction Type : | Decanted : N | Level : | LOW |
| Injection Volume : | GPC Factor : 1.0 | GPC Cleanup : | N PH : |
| Prep Method : | | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| BN037751.D | 1 | 09/15/25 10:15 | 09/17/25 18:13 | PB169692 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOD | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | | |
| 123-91-1 | 1,4-Dioxane | 0.95 | | 0.070 | 0.20 | 0.20 | ug/L |
| **SURROGATES** | | | | | | | |
| 7297-45-2 | 2-Methylnaphthalene-d10 | 0.30 | | 30 - 150 | | 75% | SPK: 0.4 |
| 93951-69-0 | Fluoranthene-d10 | 0.37 | | 30 - 150 | | 92% | SPK: 0.4 |
| 4165-60-0 | Nitrobenzene-d5 | 0.32 | | 55 - 111 | | 81% | SPK: 0.4 |
| 321-60-8 | 2-Fluorobiphenyl | 0.34 | | 53 - 106 | | 84% | SPK: 0.4 |
| 1718-51-0 | Terphenyl-d14 | 0.47 | | 58 - 132 | | 117% | SPK: 0.4 |
| **INTERNAL STANDARDS** | | | | | | | |
| 3855-82-1 | 1,4-Dichlorobenzene-d4 | 6740 | 7.84 | | | | |
| 1146-65-2 | Naphthalene-d8 | 18300 | 10.637 | | | | |
| 15067-26-2 | Acenaphthene-d10 | 8160 | 14.495 | | | | |
| 1517-22-2 | Phenanthrene-d10 | 14500 | 17.235 | | | | |
| 1719-03-5 | Chrysene-d12 | 12300 | 21.411 | | | | |
| 1520-96-3 | Perylene-d12 | 12300 | 23.747 | | | | |

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\BN091725\
Data File : BN037751.D
Acq On : 17 Sep 2025 18:13
Operator : RC/JU
Sample : Q3095-08
Misc :
ALS Vial : 13 Sample Multiplier: 1

**Instrument :**
BNA_N
**ClientSampleId :**
MW203D1-20250909

Quant Time: Sep 17 18:37:44 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN091125.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Sep 11 14:20:01 2025
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) 1,4-Dichlorobenzene-d4 | 7.840 | 152 | 6737 | 0.400 | ng | 0.00 |
| 7) Naphthalene-d8 | 10.637 | 136 | 18255 | 0.400 | ng | -0.01 |
| 13) Acenaphthene-d10 | 14.495 | 164 | 8162 | 0.400 | ng | 0.00 |
| 19) Phenanthrene-d10 | 17.235 | 188 | 14474 | 0.400 | ng | # 0.00 |
| 29) Chrysene-d12 | 21.411 | 240 | 12341 | 0.400 | ng | # 0.00 |
| 35) Perylene-d12 | 23.747 | 264 | 12297 | 0.400 | ng | # 0.00 |
| System Monitoring Compounds | | | | | | |
| 4) 2-Fluorophenol | 5.399 | 112 | 1900 | 0.123 | ng | 0.00 |
| 5) Phenol-d6 | 6.988 | 99 | 1423 | 0.071 | ng | 0.00 |
| 8) Nitrobenzene-d5 | 8.982 | 82 | 4307 | 0.323 | ng | -0.01 |
| 11) 2-Methylnaphthalene-d10 | 12.238 | 152 | 7260 | 0.300 | ng | 0.00 |
| 14) 2,4,6-Tribromophenol | 15.982 | 330 | 850 | 0.399 | ng | 0.00 |
| 15) 2-Fluorobiphenyl | 13.115 | 172 | 11534 | 0.338 | ng | 0.00 |
| 27) Fluoranthene-d10 | 19.267 | 212 | 13393 | 0.369 | ng | 0.00 |
| 31) Terphenyl-d14 | 19.866 | 244 | 11743 | 0.469 | ng | 0.00 |
| Target Compounds | | | | | | Qvalue |
| 2) 1,4-Dioxane | 3.304 | 88 | 6666 | 0.950 | ng | 96 |
| 34) Bis(2-ethylhexyl)phtha... | 21.340 | 149 | 2537 | 0.199 | ng | 98 |

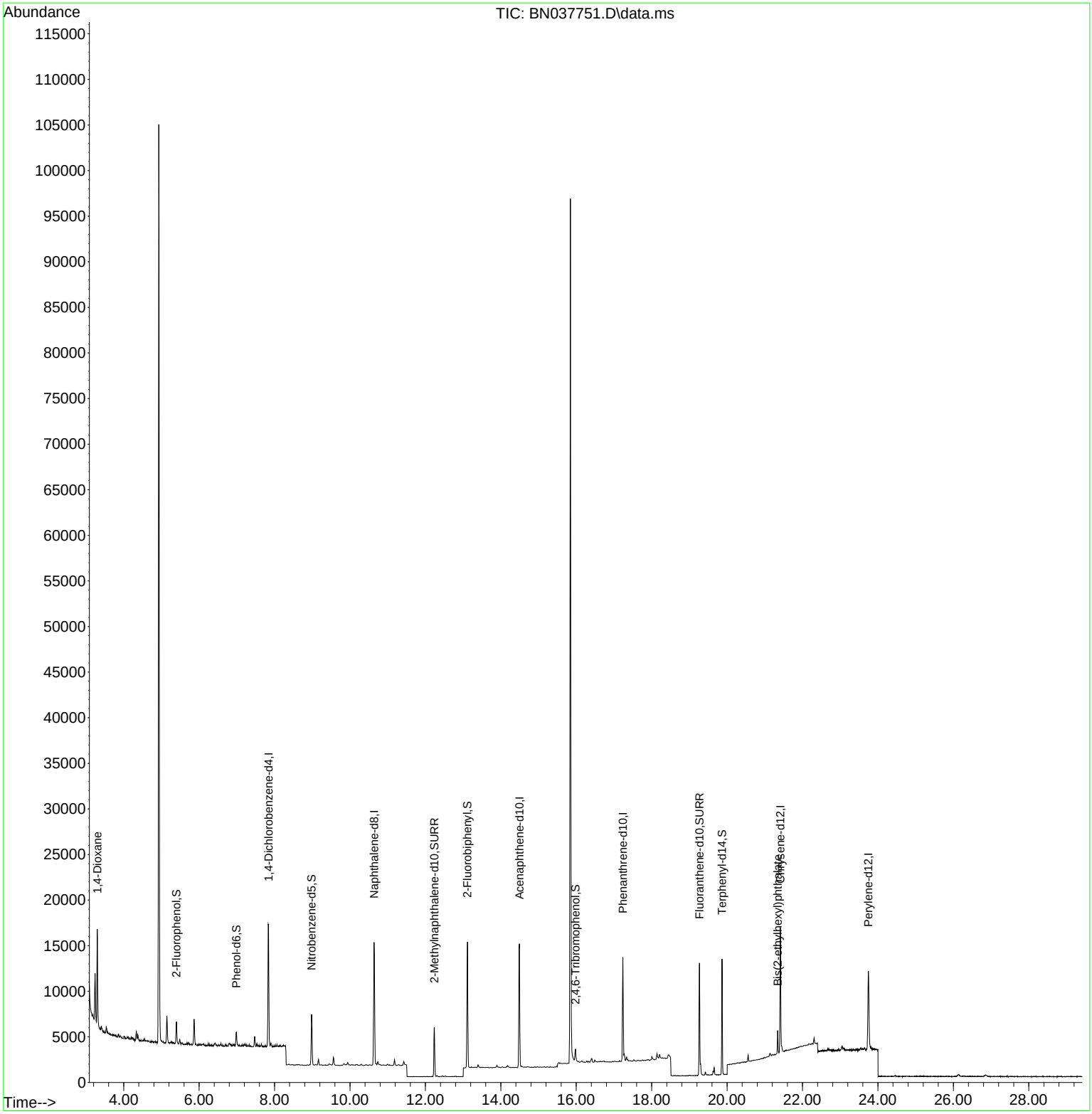
(#) = qualifier out of range (m) = manual integration (+) = signals summed

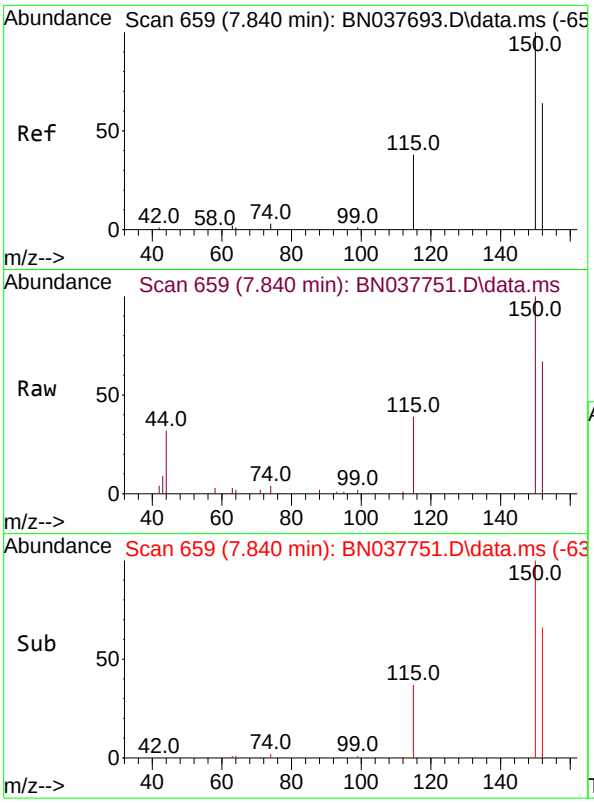
Sample Results: **BN037751.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN091725\
Data File : BN037751.D
Acq On : 17 Sep 2025 18:13
Operator : RC/JU
Sample : Q3095-08
Misc :
ALS Vial : 13 Sample Multiplier: 1

**Instrument :**
BNA_N
**ClientSampleId :**
MW203D1-20250909

Quant Time: Sep 17 18:37:44 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN091125.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Sep 11 14:20:01 2025
Response via : Initial Calibration



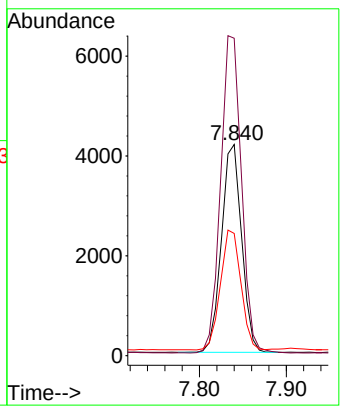


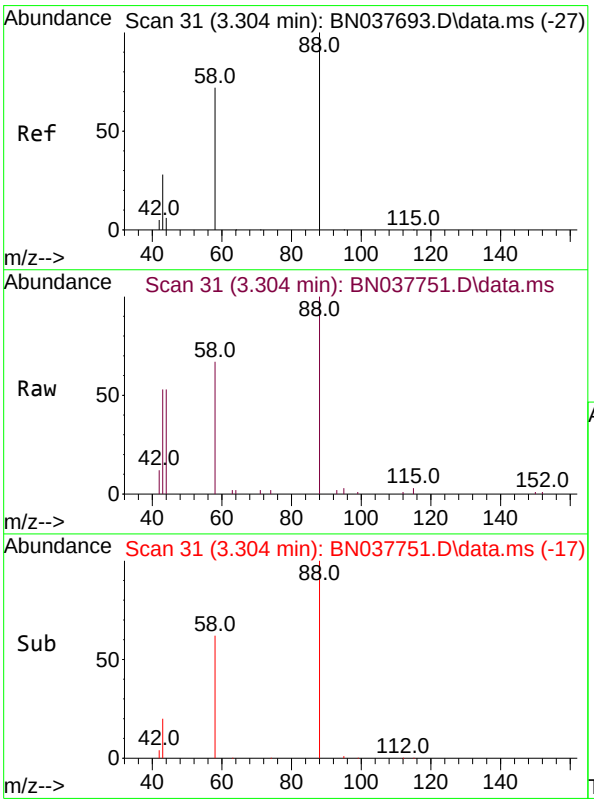

#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.840 min Scan# 6
Delta R.T. -0.000 min
Lab File: BN037751.D
Acq: 17 Sep 2025 18:13

**Instrument :**
BNA_N
**ClientSampleId :**
MW203D1-20250909

Tgt Ion:152 Resp: 6737

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 150 | 150.3 | 124.5 | 186.7 |
| 115 | 57.9 | 49.2 | 73.8 |

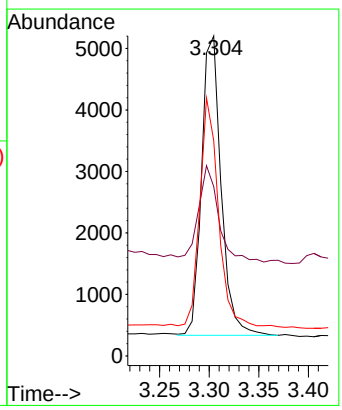


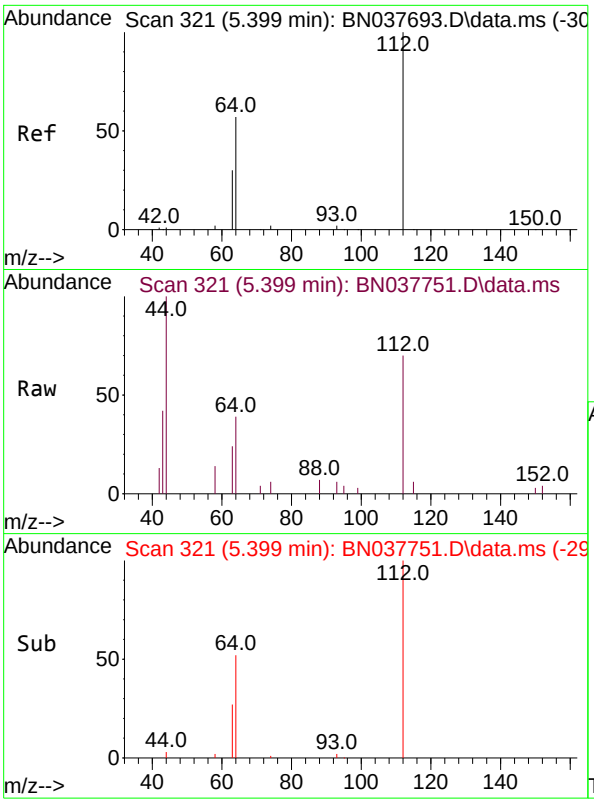




#2
1,4-Dioxane
Concen: 0.950 ng
RT: 3.304 min Scan# 31
Delta R.T. -0.000 min
Lab File: BN037751.D
Acq: 17 Sep 2025 18:13

Tgt Ion: 88 Resp: 6666

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 88 | 100 | | |
| 43 | 35.2 | 26.8 | 40.2 |
| 58 | 73.5 | 61.9 | 92.9 |



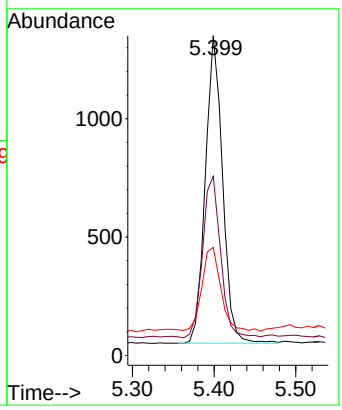


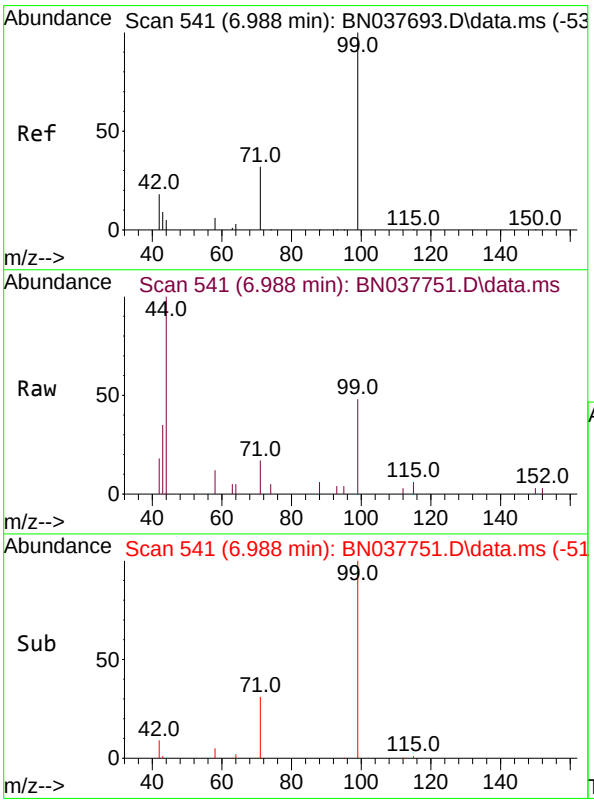

#4
2-Fluorophenol
Concen: 0.123 ng
RT: 5.399 min Scan# 3
Delta R.T. -0.000 min
Lab File: BN037751.D
Acq: 17 Sep 2025 18:13

**Instrument :**
BNA_N
**ClientSampleId :**
MW203D1-20250909

Tgt Ion:112 Resp: 1900

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 112 | 100 | | |
| 64 | 54.9 | 44.9 | 67.3 |
| 63 | 29.7 | 24.7 | 37.1 |

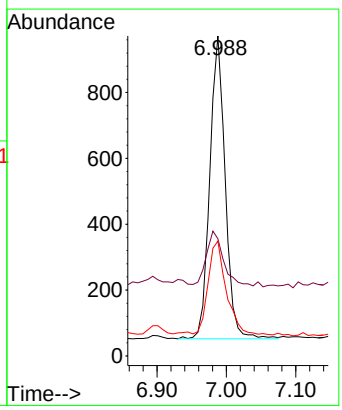


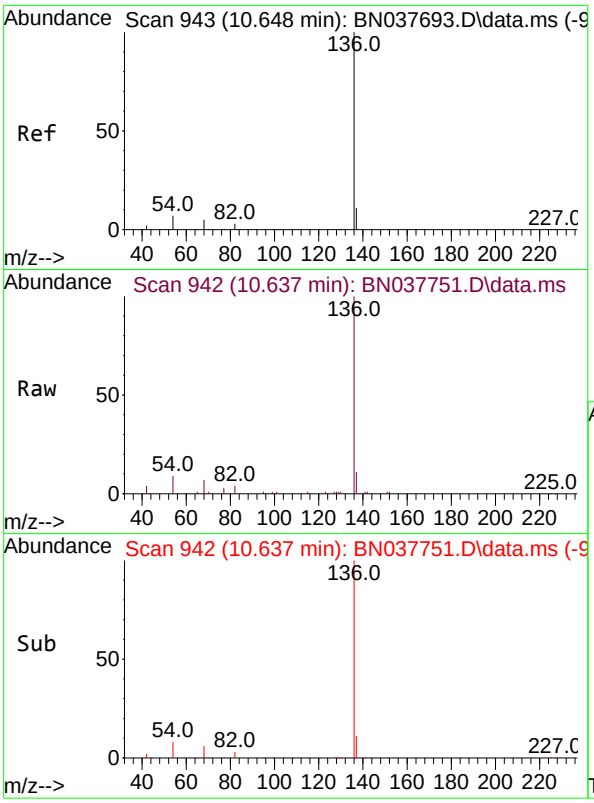




#5
Phenol-d6
Concen: 0.071 ng
RT: 6.988 min Scan# 541
Delta R.T. 0.000 min
Lab File: BN037751.D
Acq: 17 Sep 2025 18:13

Tgt Ion: 99 Resp: 1423

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 99 | 100 | | |
| 42 | 19.7 | 16.6 | 24.8 |
| 71 | 37.2 | 26.7 | 40.1 |



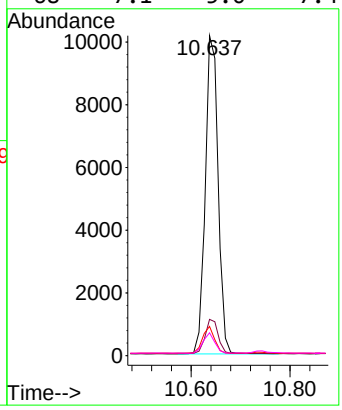


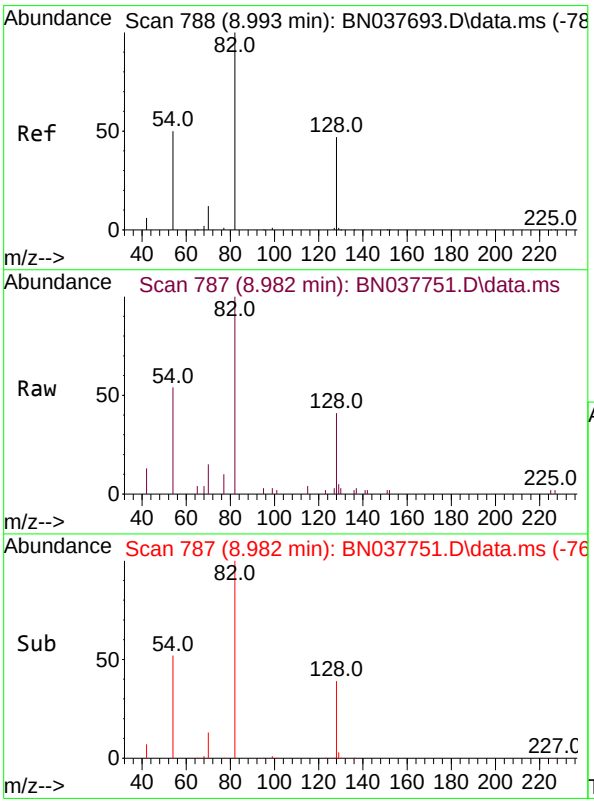

#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.637 min Scan# 94
Delta R.T. -0.011 min
Lab File: BN037751.D
Acq: 17 Sep 2025 18:13

**Instrument :**
BNA_N
**ClientSampleId :**
MW203D1-20250909

Tgt Ion:136 Resp: 18255

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 136 | 100 | | |
| 137 | 11.3 | 9.1 | 13.7 |
| 54 | 9.1 | 6.3 | 9.5 |
| 68 | 7.1 | 5.0 | 7.4 |

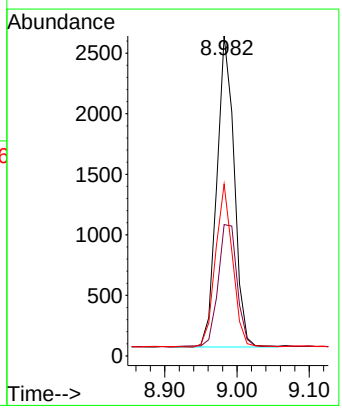


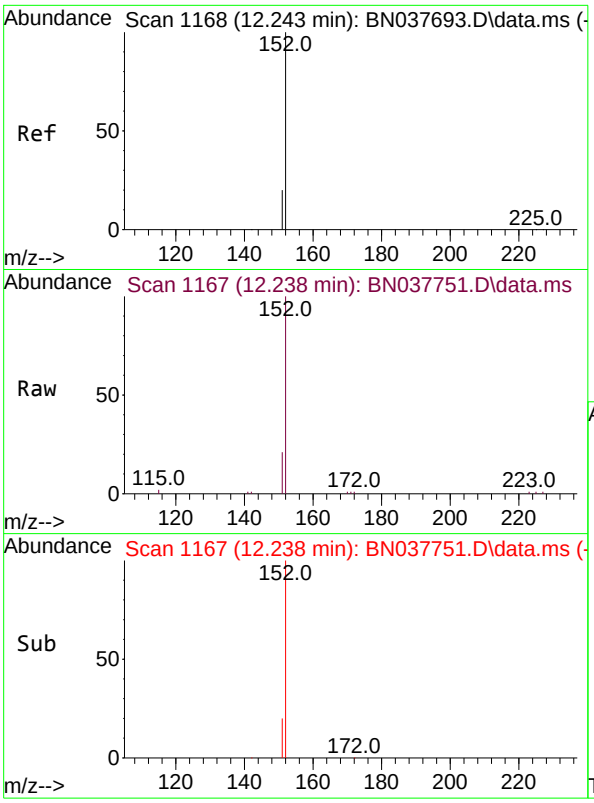




#8
Nitrobenzene-d5
Concen: 0.323 ng
RT: 8.982 min Scan# 787
Delta R.T. -0.011 min
Lab File: BN037751.D
Acq: 17 Sep 2025 18:13

Tgt Ion: 82 Resp: 4307

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 82 | 100 | | |
| 128 | 41.1 | 38.3 | 57.5 |
| 54 | 53.7 | 41.4 | 62.2 |



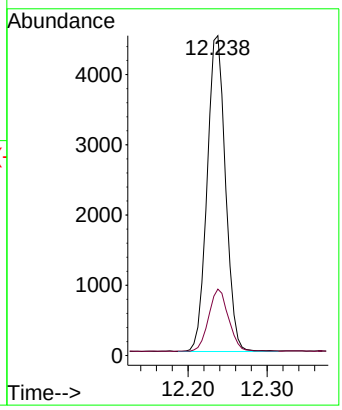


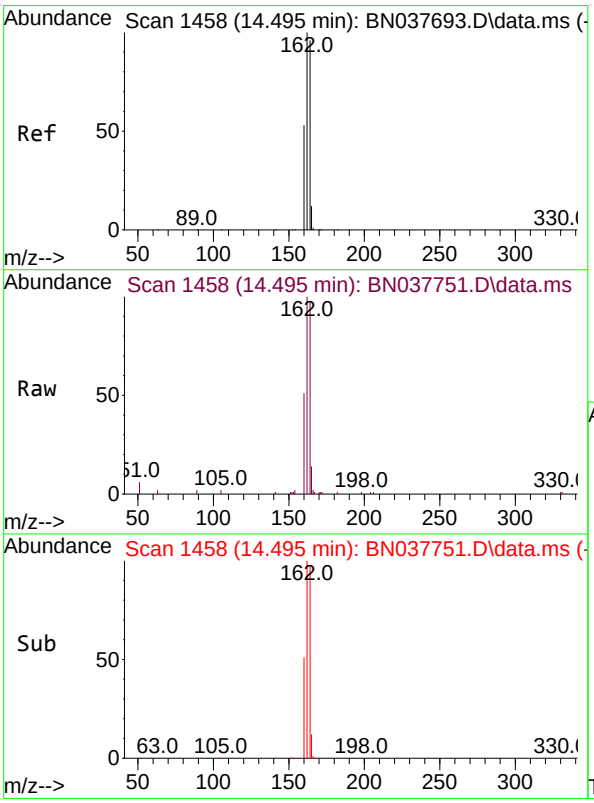

#11
2-Methylnaphthalene-d10
Concen: 0.300 ng
RT: 12.238 min Scan# 11
Delta R.T. -0.005 min
Lab File: BN037751.D
Acq: 17 Sep 2025 18:13

**Instrument :**
BNA_N
**ClientSampleId :**
MW203D1-20250909

Tgt Ion:152 Resp: 7260

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

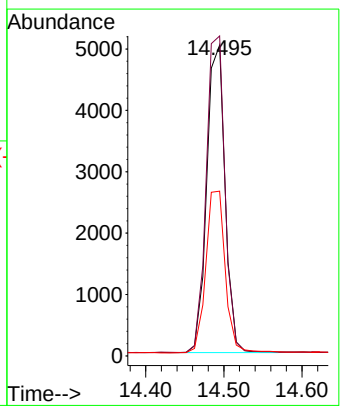


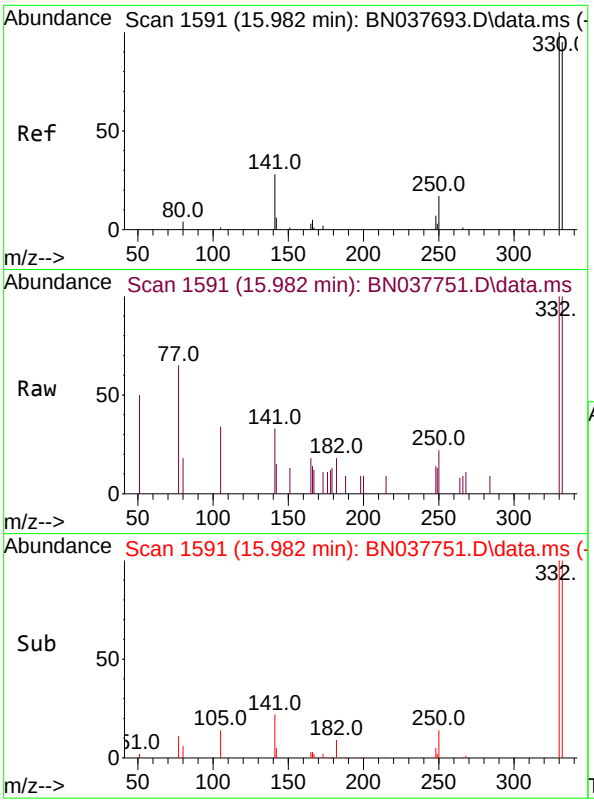




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.495 min Scan# 1458
Delta R.T. -0.000 min
Lab File: BN037751.D
Acq: 17 Sep 2025 18:13

Tgt Ion:164 Resp: 8162

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 164 | 100 | | |
| 162 | 103.0 | 83.1 | 124.7 |
| 160 | 53.0 | 44.3 | 66.5 |



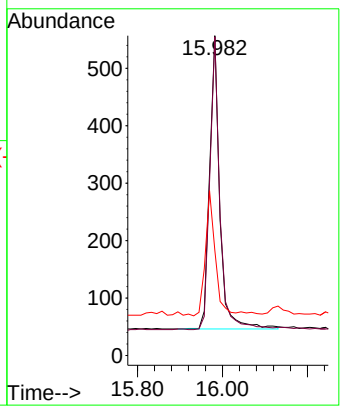


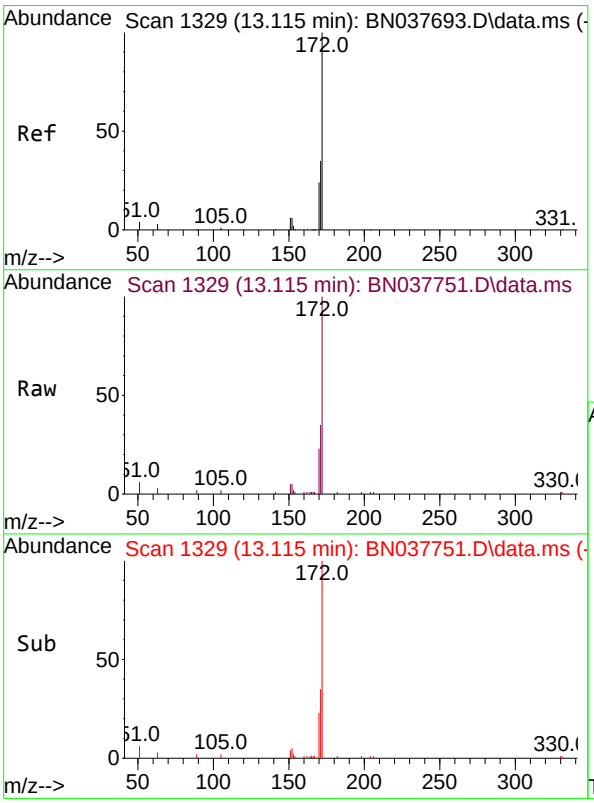

#14
2,4,6-Tribromophenol
Concen: 0.399 ng
RT: 15.982 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN037751.D
Acq: 17 Sep 2025 18:13

**Instrument :**
BNA_N
**ClientSampleId :**
MW203D1-20250909

Tgt Ion:330 Resp: 850

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 330 | 100 | | |
| 332 | 98.2 | 75.3 | 112.9 |
| 141 | 41.2 | 35.0 | 52.4 |

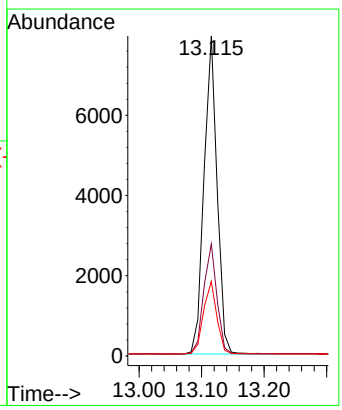


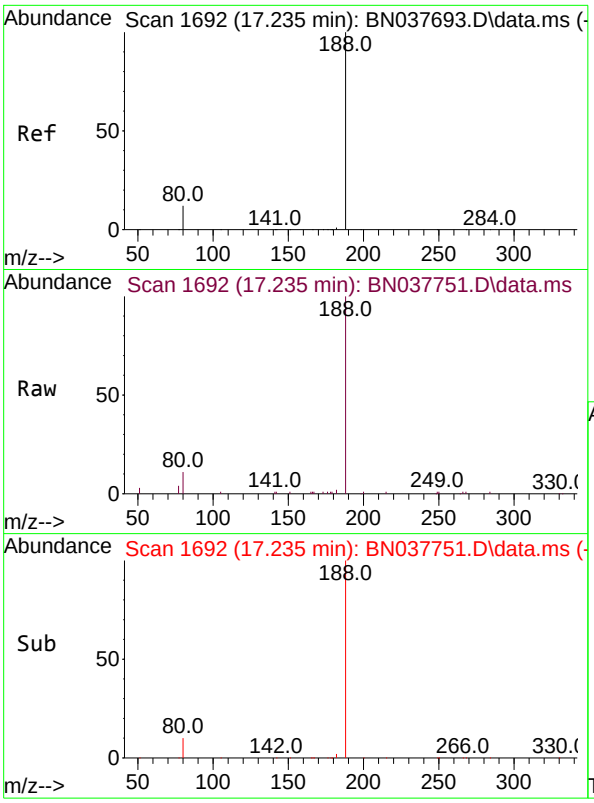




#15
2-Fluorobiphenyl
Concen: 0.338 ng
RT: 13.115 min Scan# 1329
Delta R.T. -0.000 min
Lab File: BN037751.D
Acq: 17 Sep 2025 18:13

Tgt Ion:172 Resp: 11534

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 172 | 100 | | |
| 171 | 35.0 | 28.6 | 43.0 |
| 170 | 23.3 | 19.8 | 29.8 |



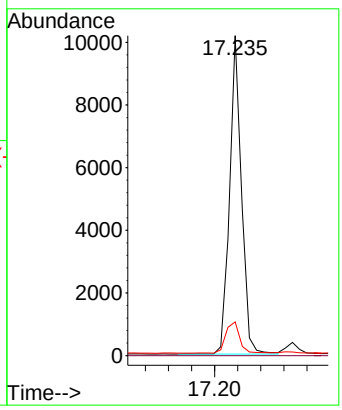


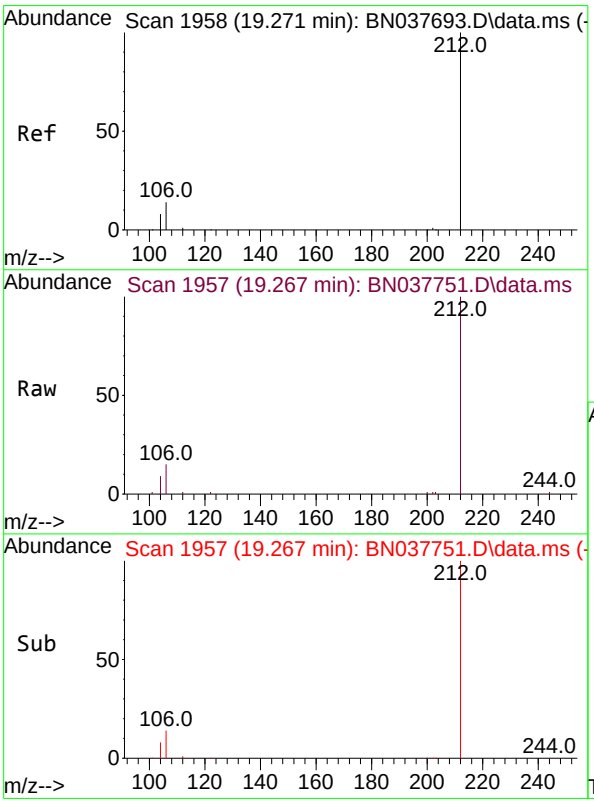

#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.235 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN037751.D
Acq: 17 Sep 2025 18:13

**Instrument :**
BNA_N
**ClientSampleId :**
MW203D1-20250909

Tgt Ion:188 Resp: 14474

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 188 | 100 | | |
| 94 | 0.0 | 0.0 | 0.0 |
| 80 | 10.6 | 10.6 | 15.8# |

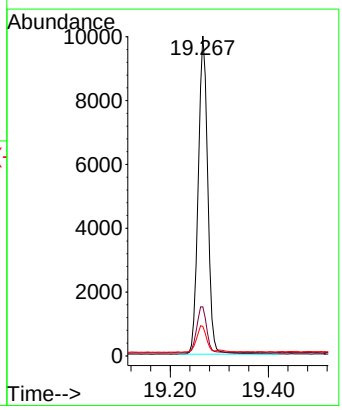


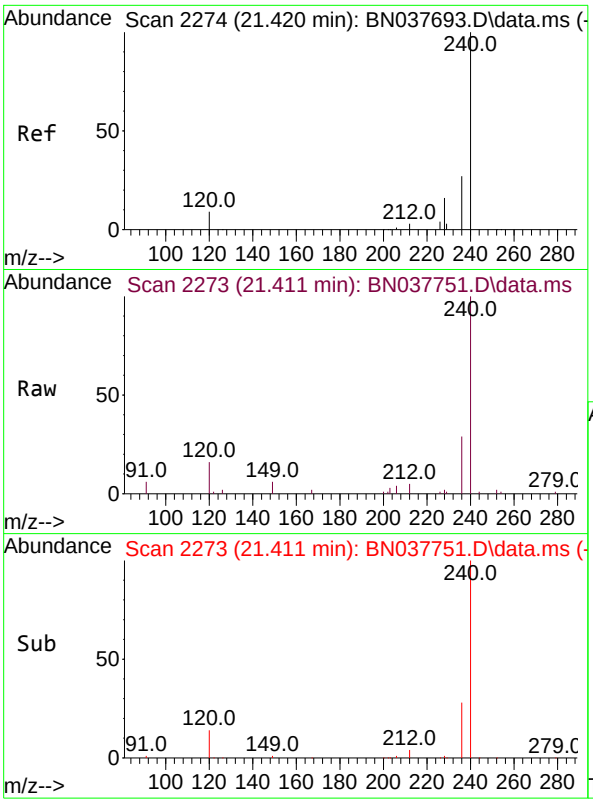




#27
Fluoranthene-d10
Concen: 0.369 ng
RT: 19.267 min Scan# 1957
Delta R.T. -0.005 min
Lab File: BN037751.D
Acq: 17 Sep 2025 18:13

Tgt Ion:212 Resp: 13393

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 212 | 100 | | |
| 106 | 15.6 | 12.2 | 18.2 |
| 104 | 8.5 | 6.9 | 10.3 |



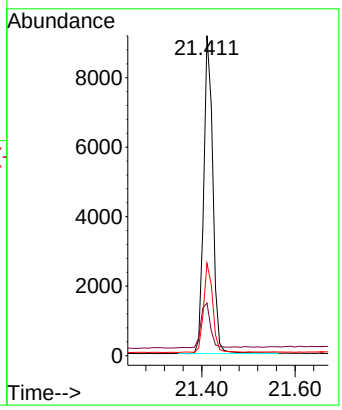


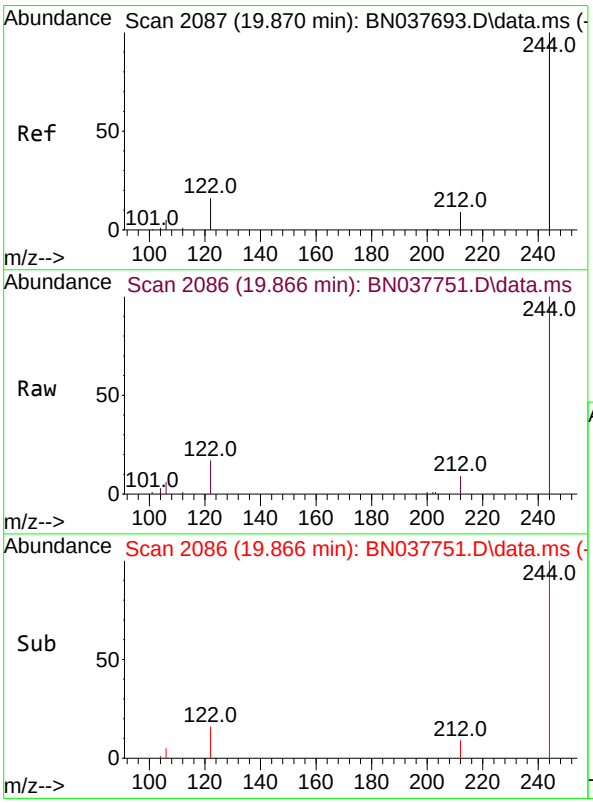

#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.411 min Scan# 2
Delta R.T. -0.009 min
Lab File: BN037751.D
Acq: 17 Sep 2025 18:13

**Instrument :**
BNA_N
**ClientSampleId :**
MW203D1-20250909

Tgt Ion:240 Resp: 12341

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 240 | 100 | | |
| 120 | 16.4 | 9.2 | 13.8# |
| 236 | 28.8 | 22.6 | 33.8 |

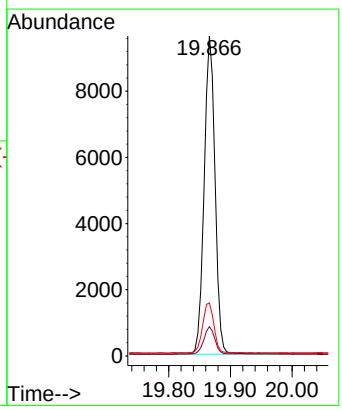


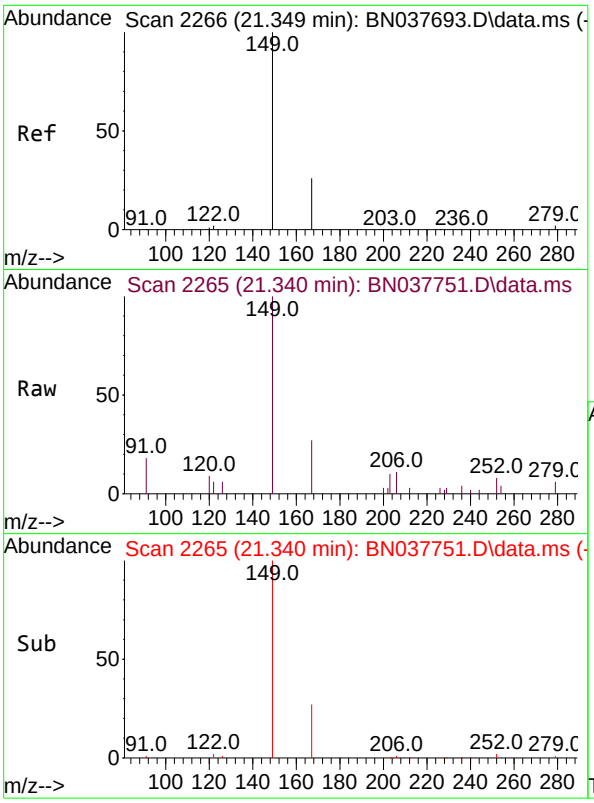




#31
Terphenyl-d14
Concen: 0.469 ng
RT: 19.866 min Scan# 2086
Delta R.T. -0.005 min
Lab File: BN037751.D
Acq: 17 Sep 2025 18:13

Tgt Ion:244 Resp: 11743

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 244 | 100 | | |
| 212 | 9.1 | 7.5 | 11.3 |
| 122 | 16.5 | 13.2 | 19.8 |



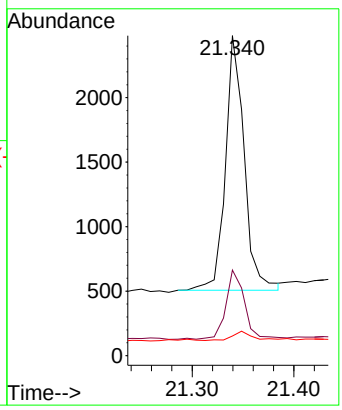


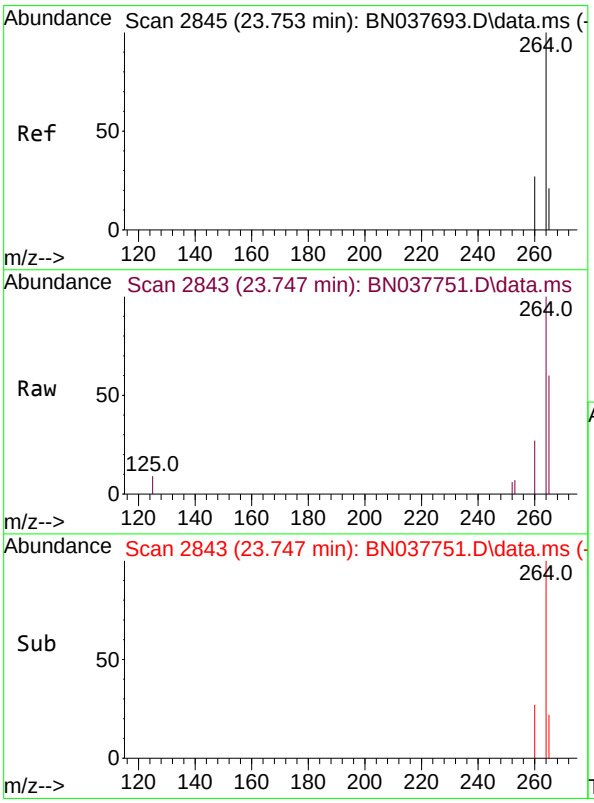

#34
Bis(2-ethylhexyl)phthalate
Concen: 0.199 ng
RT: 21.340 min Scan# 2
Delta R.T. -0.009 min
Lab File: BN037751.D
Acq: 17 Sep 2025 18:13

**Instrument :**
BNA_N
**ClientSampleId :**
MW203D1-20250909

Tgt Ion:149 Resp: 2537

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 149 | 100 | | |
| 167 | 27.1 | 20.8 | 31.2 |
| 279 | 4.3 | 3.3 | 4.9 |

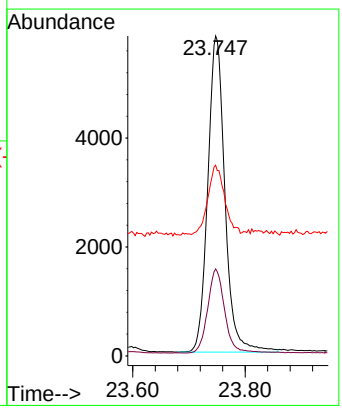



#35
Perylene-d12
Concen: 0.400 ng
RT: 23.747 min Scan# 2843
Delta R.T. -0.006 min
Lab File: BN037751.D
Acq: 17 Sep 2025 18:13

Tgt Ion:264 Resp: 12297

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 264 | 100 | | |
| 260 | 27.2 | 21.8 | 32.8 |
| 265 | 59.6 | 39.4 | 59.2# |



Raw Data: **BN037752.D**

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

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | AECOM Technical Services, Inc. | Date Collected: | 09/09/25 |
| Project: | NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258 | Date Received: | 09/12/25 |
| Client Sample ID: | MW179D2-20250909 | SDG No.: | Q3095 |
| Lab Sample ID: | Q3095-09 | Matrix: | Water |
| Analytical Method: | SW8270ESIM | % Solid: | 0 |
| Sample Wt/Vol: | 970 Units: mL | Final Vol: | 1000 uL |
| Soil Aliquot Vol: | uL | Test: | SVOC-SIMGroup1 |
| Extraction Type : | Decanted : N | Level : | LOW |
| Injection Volume : | GPC Factor : 1.0 | GPC Cleanup : | N PH : |
| Prep Method : | | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| BN037752.D | 1 | 09/15/25 10:15 | 09/17/25 18:49 | PB169692 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOD | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | | |
| 123-91-1 | 1,4-Dioxane | 0.62 | | 0.070 | 0.21 | 0.21 | ug/L |
| **SURROGATES** | | | | | | | |
| 7297-45-2 | 2-Methylnaphthalene-d10 | 0.30 | | 30 - 150 | | 74% | SPK: 0.4 |
| 93951-69-0 | Fluoranthene-d10 | 0.35 | | 30 - 150 | | 87% | SPK: 0.4 |
| 4165-60-0 | Nitrobenzene-d5 | 0.32 | | 55 - 111 | | 80% | SPK: 0.4 |
| 321-60-8 | 2-Fluorobiphenyl | 0.32 | | 53 - 106 | | 81% | SPK: 0.4 |
| 1718-51-0 | Terphenyl-d14 | 0.40 | | 58 - 132 | | 99% | SPK: 0.4 |
| **INTERNAL STANDARDS** | | | | | | | |
| 3855-82-1 | 1,4-Dichlorobenzene-d4 | 6450 | 7.84 | | | | |
| 1146-65-2 | Naphthalene-d8 | 17500 | 10.637 | | | | |
| 15067-26-2 | Acenaphthene-d10 | 7930 | 14.494 | | | | |
| 1517-22-2 | Phenanthrene-d10 | 13400 | 17.235 | | | | |
| 1719-03-5 | Chrysene-d12 | 10500 | 21.411 | | | | |
| 1520-96-3 | Perylene-d12 | 10500 | 23.747 | | | | |

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\BN091725\
Data File : BN037752.D
Acq On : 17 Sep 2025 18:49
Operator : RC/JU
Sample : Q3095-09
Misc :
ALS Vial : 14 Sample Multiplier: 1

**Instrument :**
BNA_N
**ClientSampleId :**
MW179D2-20250909

Quant Time: Sep 17 19:13:55 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN091125.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Sep 11 14:20:01 2025
Response via : Initial Calibration

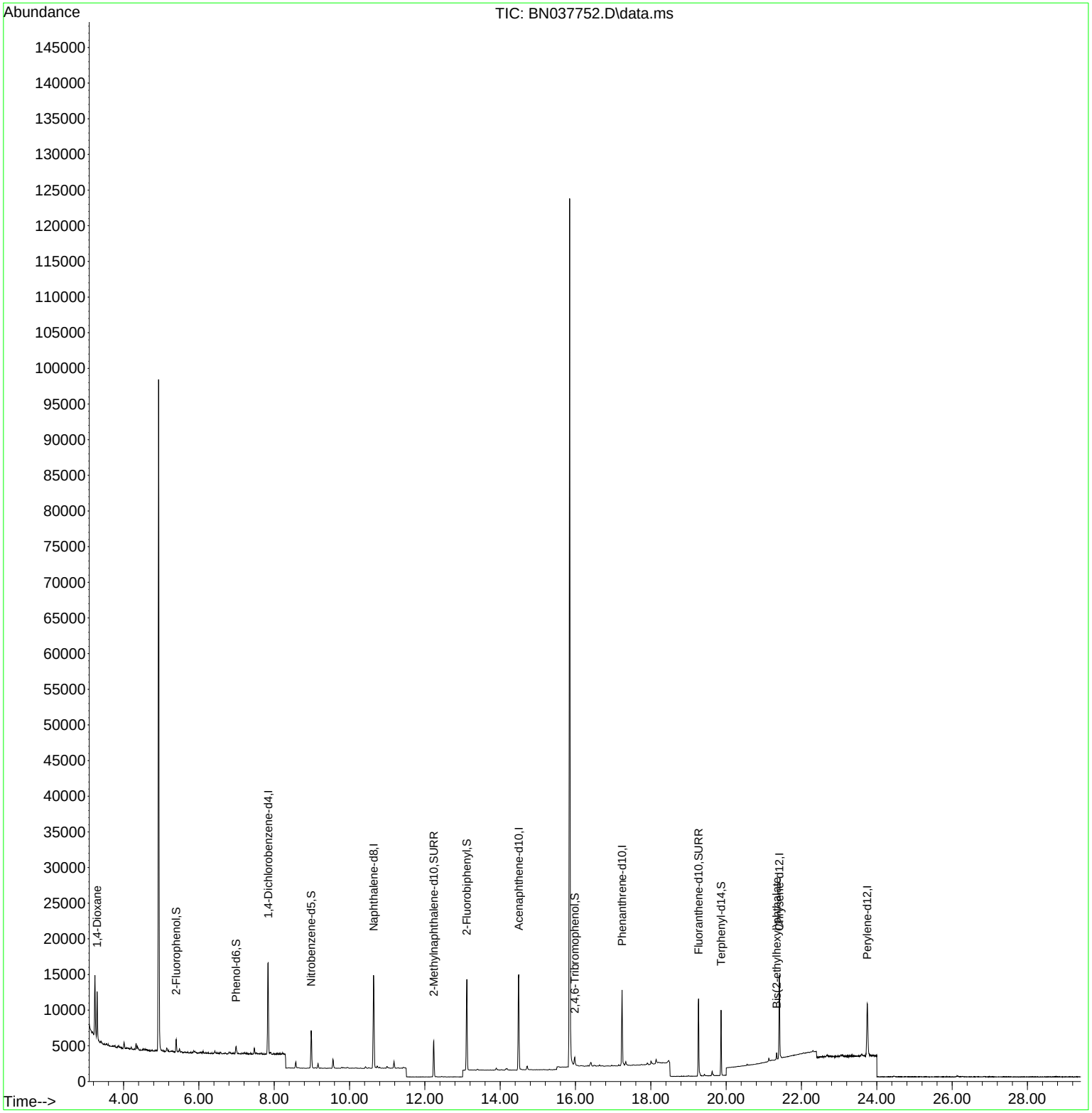
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) 1,4-Dichlorobenzene-d4 | 7.840 | 152 | 6450 | 0.400 | ng | 0.00 |
| 7) Naphthalene-d8 | 10.637 | 136 | 17530 | 0.400 | ng | -0.01 |
| 13) Acenaphthene-d10 | 14.494 | 164 | 7934 | 0.400 | ng | 0.00 |
| 19) Phenanthrene-d10 | 17.235 | 188 | 13430 | 0.400 | ng | # 0.00 |
| 29) Chrysene-d12 | 21.411 | 240 | 10479 | 0.400 | ng | # 0.00 |
| 35) Perylene-d12 | 23.747 | 264 | 10489 | 0.400 | ng | # 0.00 |
| System Monitoring Compounds | | | | | | |
| 4) 2-Fluorophenol | 5.399 | 112 | 1456 | 0.098 | ng | 0.00 |
| 5) Phenol-d6 | 6.988 | 99 | 1014 | 0.053 | ng | 0.00 |
| 8) Nitrobenzene-d5 | 8.982 | 82 | 4086 | 0.319 | ng | -0.01 |
| 11) 2-Methylnaphthalene-d10 | 12.238 | 152 | 6853 | 0.295 | ng | 0.00 |
| 14) 2,4,6-Tribromophenol | 15.982 | 330 | 686 | 0.332 | ng | 0.00 |
| 15) 2-Fluorobiphenyl | 13.115 | 172 | 10696 | 0.322 | ng | 0.00 |
| 27) Fluoranthene-d10 | 19.266 | 212 | 11725 | 0.348 | ng | 0.00 |
| 31) Terphenyl-d14 | 19.866 | 244 | 8402 | 0.395 | ng | 0.00 |
| Target Compounds | | | | | | Qvalue |
| 2) 1,4-Dioxane | 3.297 | 88 | 4057 | 0.604 | ng | # 94 |
| 34) Bis(2-ethylhexyl)phtha... | 21.339 | 149 | 1006 | 0.093 | ng | # 97 |

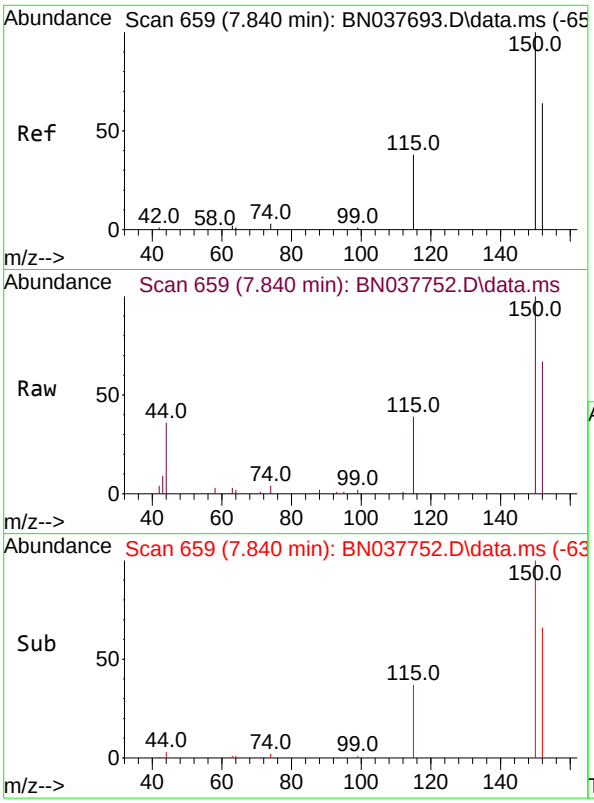
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN091725\
Data File : BN037752.D
Acq On : 17 Sep 2025 18:49
Operator : RC/JU
Sample : Q3095-09
Misc :
ALS Vial : 14 Sample Multiplier: 1

**Instrument :**
BNA_N
**ClientSampleId :**
MW179D2-20250909

Quant Time: Sep 17 19:13:55 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN091125.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Sep 11 14:20:01 2025
Response via : Initial Calibration



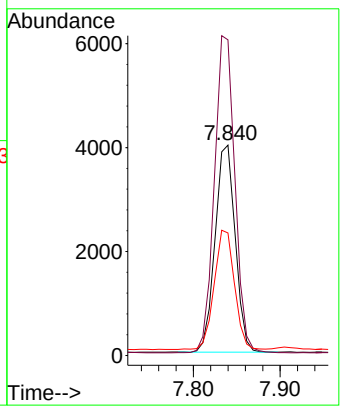


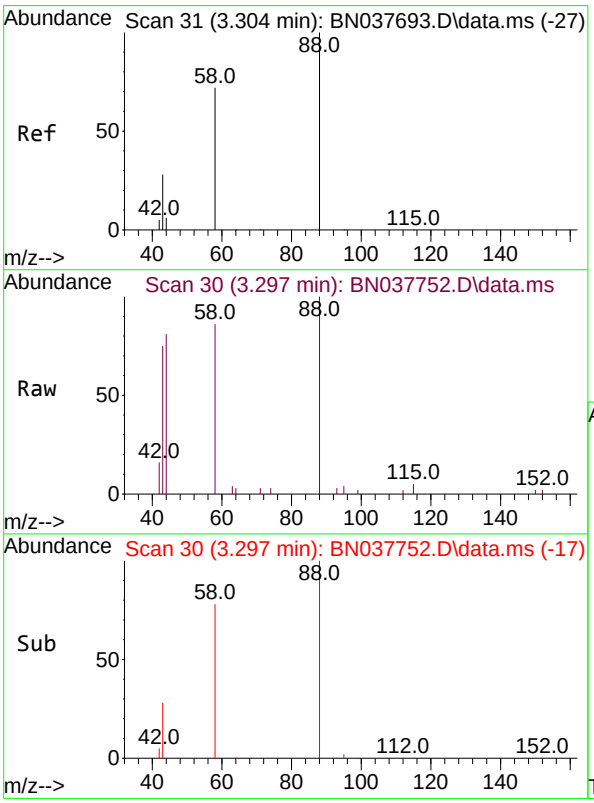

#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.840 min Scan# 6
Delta R.T. -0.000 min
Lab File: BN037752.D
Acq: 17 Sep 2025 18:49

**Instrument :**
BNA_N
**ClientSampleId :**
MW179D2-20250909

Tgt Ion:152 Resp: 6450

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 150 | 150.0 | 124.5 | 186.7 |
| 115 | 58.2 | 49.2 | 73.8 |

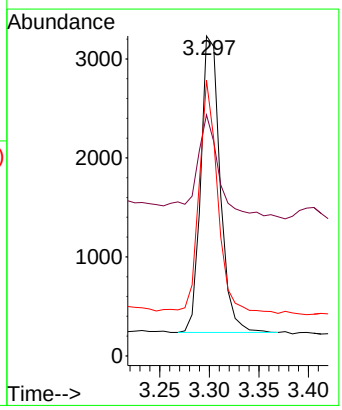


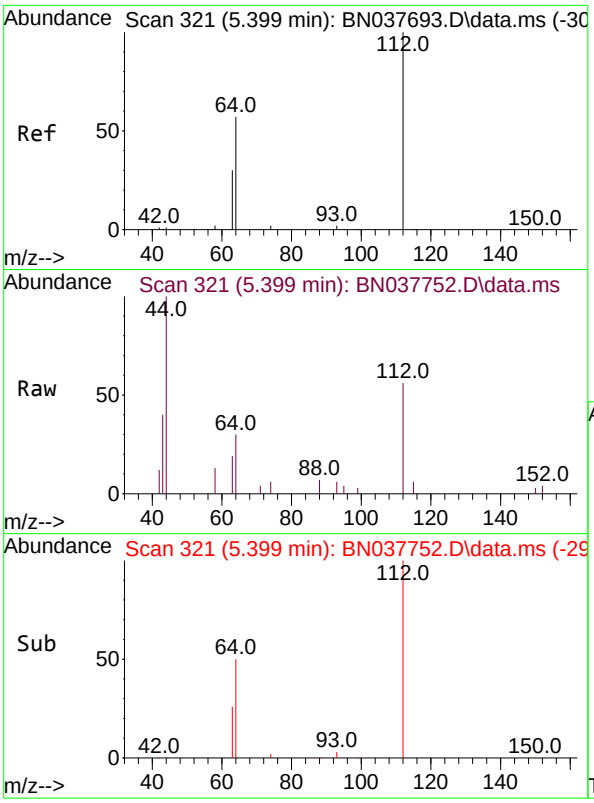




#2
1,4-Dioxane
Concen: 0.604 ng
RT: 3.297 min Scan# 30
Delta R.T. -0.007 min
Lab File: BN037752.D
Acq: 17 Sep 2025 18:49

Tgt Ion: 88 Resp: 4057

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 88 | 100 | | |
| 43 | 42.4 | 26.8 | 40.2# |
| 58 | 76.2 | 61.9 | 92.9 |



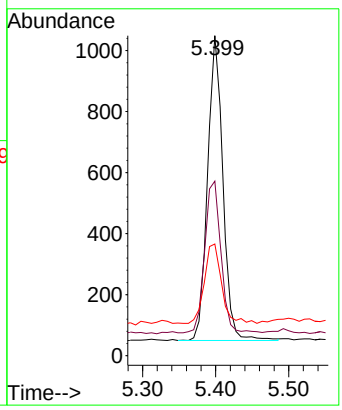


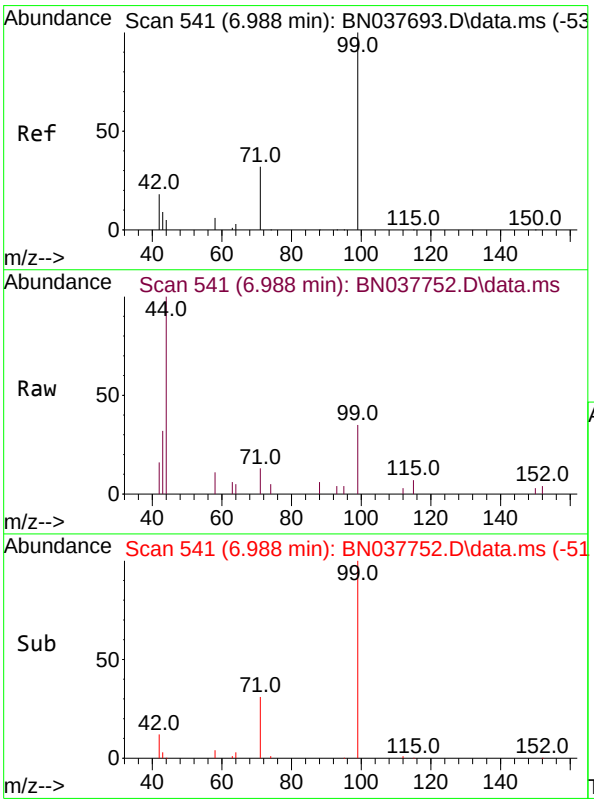

#4
2-Fluorophenol
Concen: 0.098 ng
RT: 5.399 min Scan# 3
Delta R.T. -0.000 min
Lab File: BN037752.D
Acq: 17 Sep 2025 18:49

**Instrument :**
BNA_N
**ClientSampleId :**
MW179D2-20250909

Tgt Ion:112 Resp: 1456

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 112 | 100 | | |
| 64 | 52.8 | 44.9 | 67.3 |
| 63 | 29.1 | 24.7 | 37.1 |

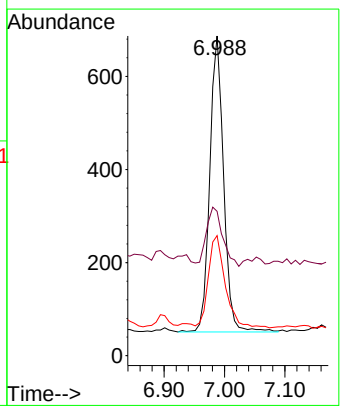


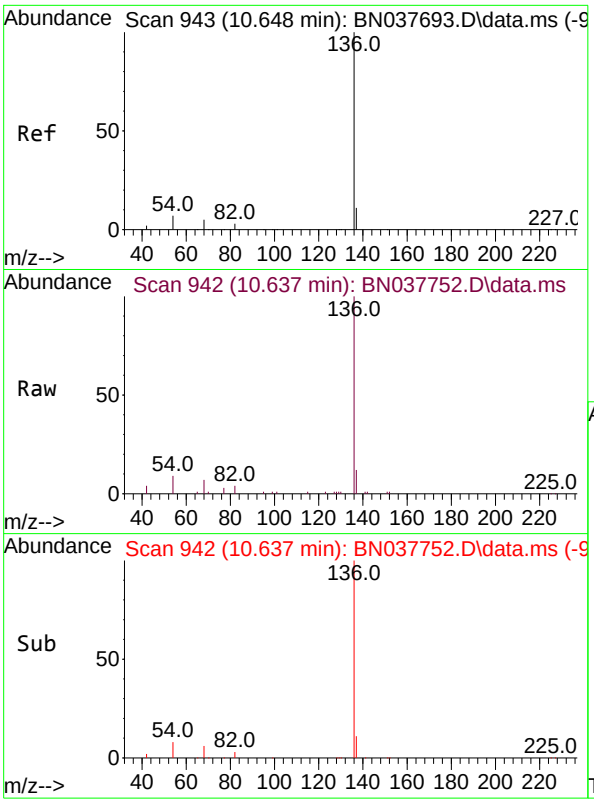




#5
Phenol-d6
Concen: 0.053 ng
RT: 6.988 min Scan# 541
Delta R.T. -0.000 min
Lab File: BN037752.D
Acq: 17 Sep 2025 18:49

Tgt Ion: 99 Resp: 1014

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 99 | 100 | | |
| 42 | 23.3 | 16.6 | 24.8 |
| 71 | 37.9 | 26.7 | 40.1 |



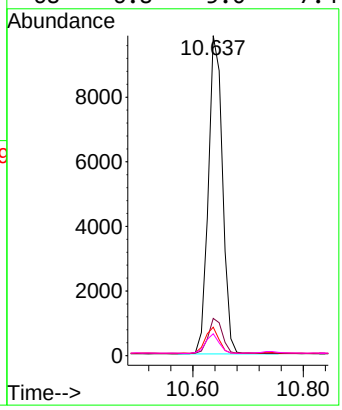


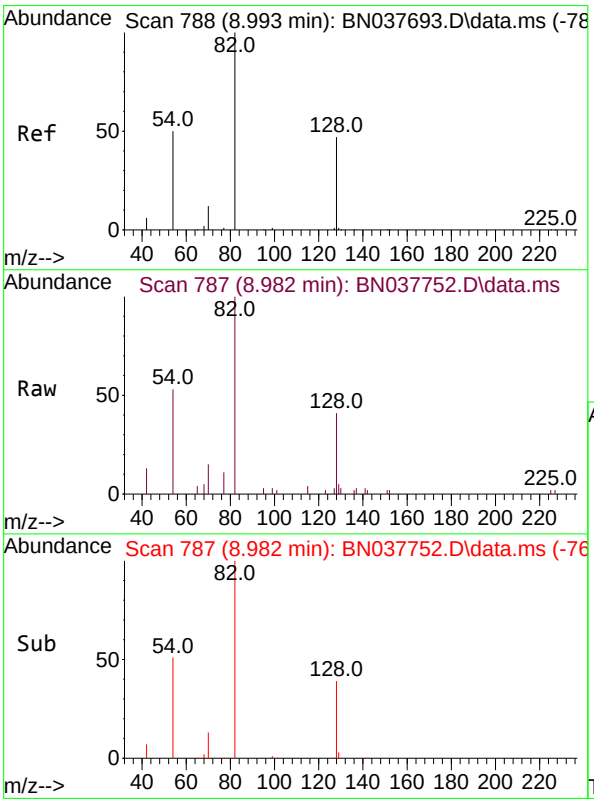

#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.637 min Scan# 94
Delta R.T. -0.011 min
Lab File: BN037752.D
Acq: 17 Sep 2025 18:49

**Instrument :**
BNA_N
**ClientSampleId :**
MW179D2-20250909

Tgt Ion:136 Resp: 17530

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 136 | 100 | | |
| 137 | 11.6 | 9.1 | 13.7 |
| 54 | 8.9 | 6.3 | 9.5 |
| 68 | 6.8 | 5.0 | 7.4 |

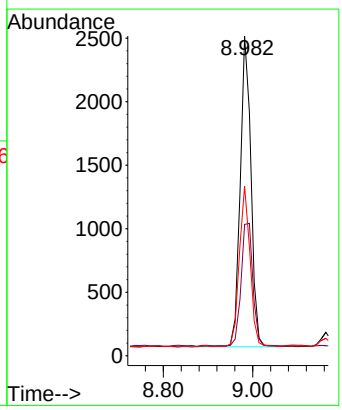


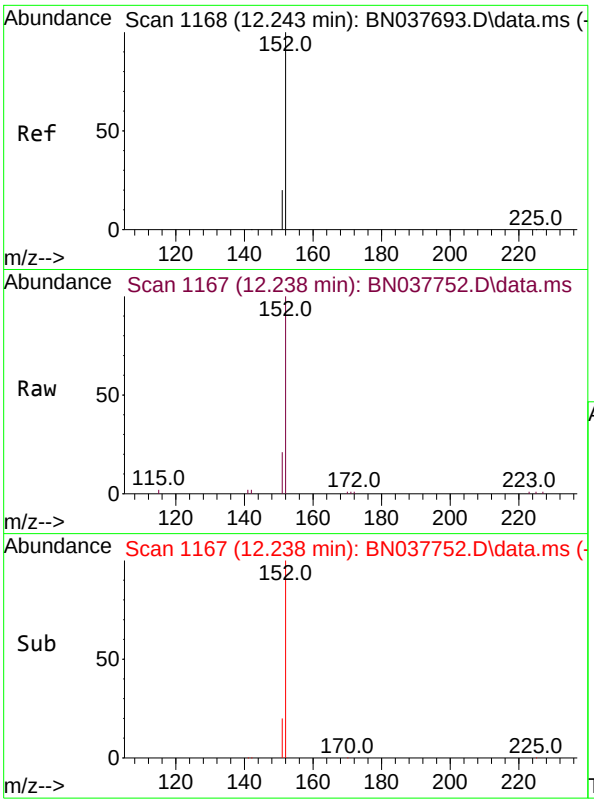




#8
Nitrobenzene-d5
Concen: 0.319 ng
RT: 8.982 min Scan# 787
Delta R.T. -0.011 min
Lab File: BN037752.D
Acq: 17 Sep 2025 18:49

Tgt Ion: 82 Resp: 4086

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 82 | 100 | | |
| 128 | 41.1 | 38.3 | 57.5 |
| 54 | 53.1 | 41.4 | 62.2 |



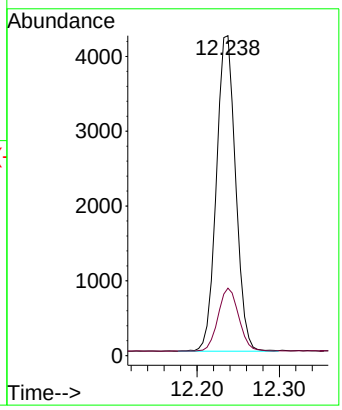


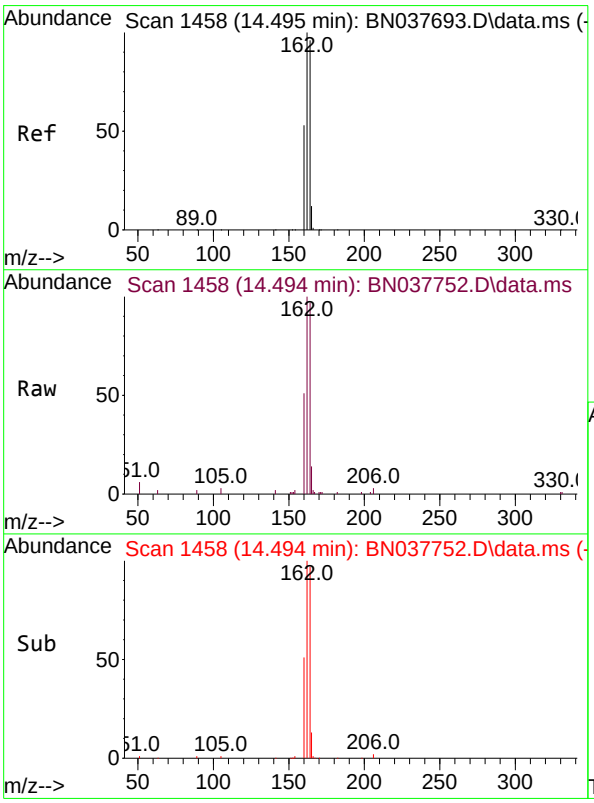

#11
2-Methylnaphthalene-d10
Concen: 0.295 ng
RT: 12.238 min Scan# 11
Delta R.T. -0.005 min
Lab File: BN037752.D
Acq: 17 Sep 2025 18:49

**Instrument :**
BNA_N
**ClientSampleId :**
MW179D2-20250909

Tgt Ion:152 Resp: 6853

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

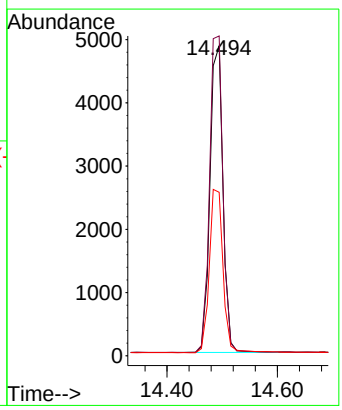


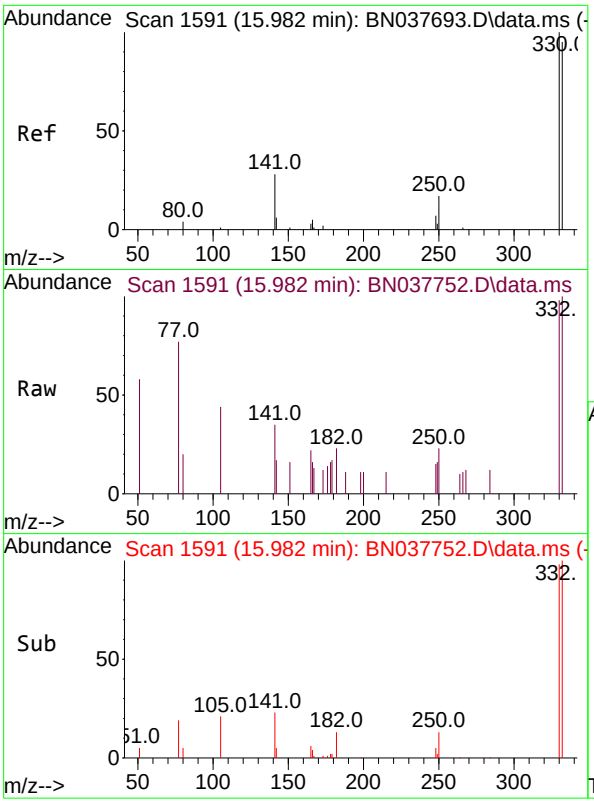




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.494 min Scan# 1458
Delta R.T. -0.000 min
Lab File: BN037752.D
Acq: 17 Sep 2025 18:49

Tgt Ion:164 Resp: 7934

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 164 | 100 | | |
| 162 | 103.2 | 83.1 | 124.7 |
| 160 | 52.8 | 44.3 | 66.5 |



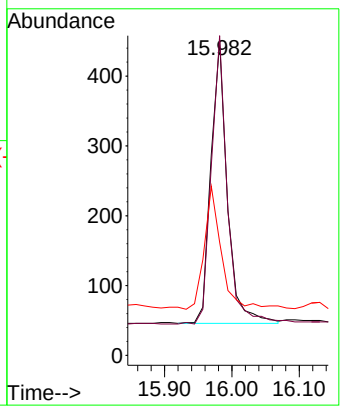


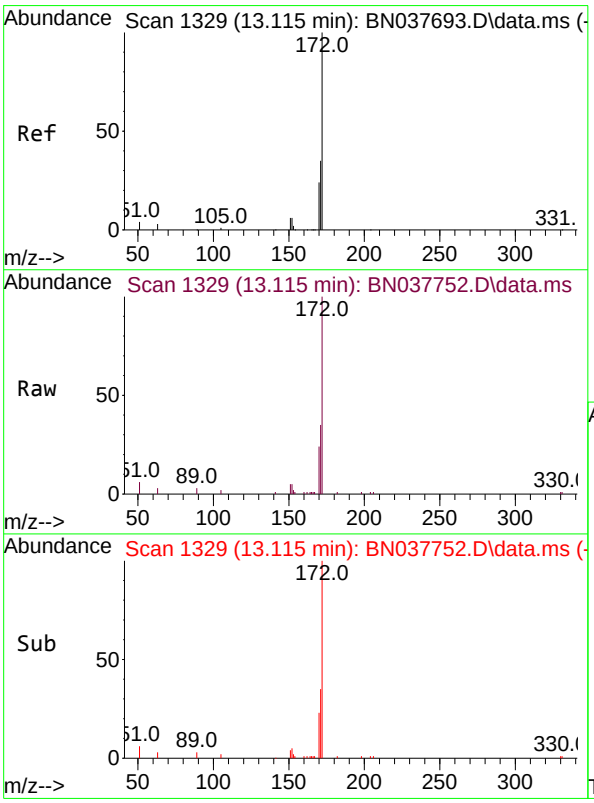

#14
2,4,6-Tribromophenol
Concen: 0.332 ng
RT: 15.982 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN037752.D
Acq: 17 Sep 2025 18:49

**Instrument :**
BNA_N
**ClientSampleId :**
MW179D2-20250909

Tgt Ion:330 Resp: 686

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 330 | 100 | | |
| 332 | 100.1 | 75.3 | 112.9 |
| 141 | 46.5 | 35.0 | 52.4 |

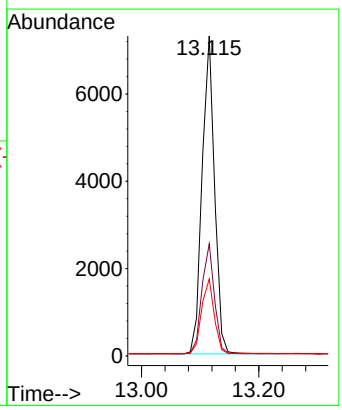


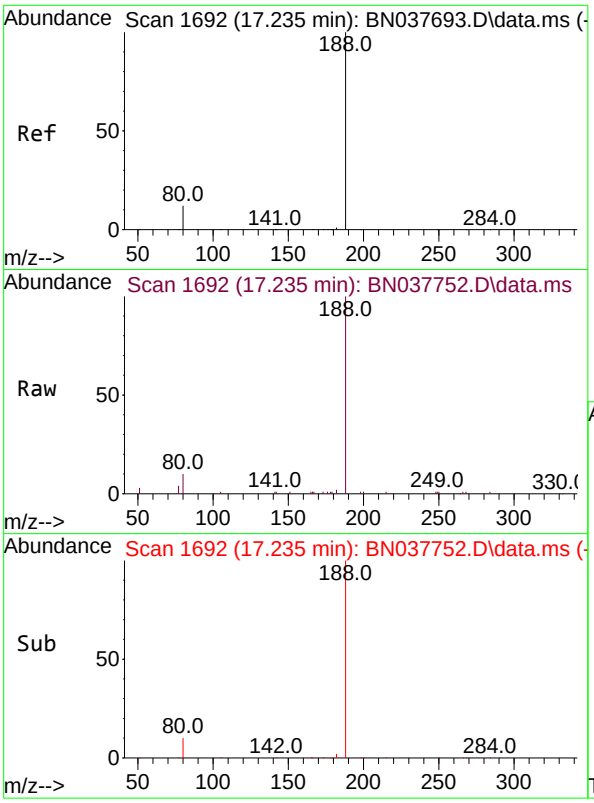




#15
2-Fluorobiphenyl
Concen: 0.322 ng
RT: 13.115 min Scan# 1329
Delta R.T. -0.000 min
Lab File: BN037752.D
Acq: 17 Sep 2025 18:49

Tgt Ion:172 Resp: 10696

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 172 | 100 | | |
| 171 | 35.0 | 28.6 | 43.0 |
| 170 | 24.0 | 19.8 | 29.8 |



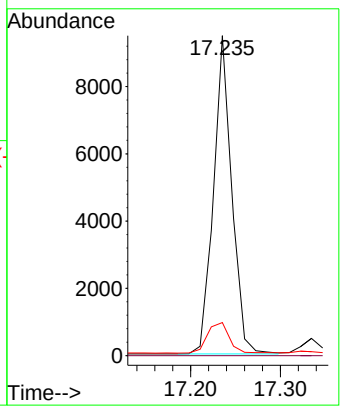


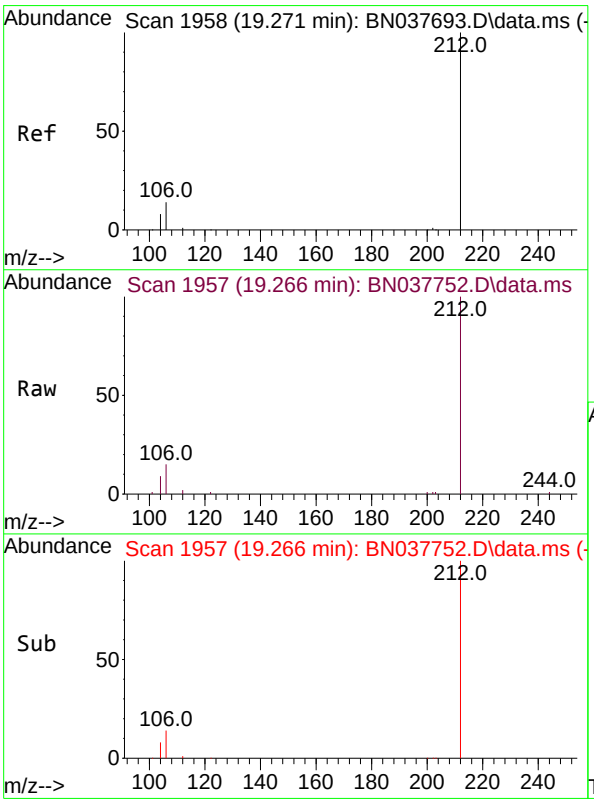

#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.235 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN037752.D
Acq: 17 Sep 2025 18:49

**Instrument :**
BNA_N
**ClientSampleId :**
MW179D2-20250909

Tgt Ion:188 Resp: 13430

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 188 | 100 | | |
| 94 | 0.0 | 0.0 | 0.0 |
| 80 | 10.3 | 10.6 | 15.8# |

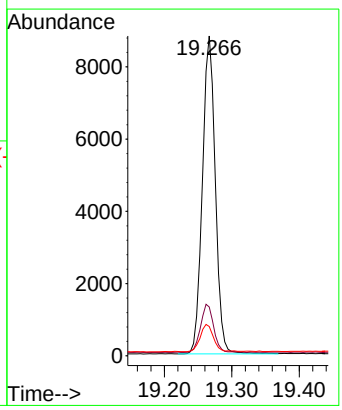


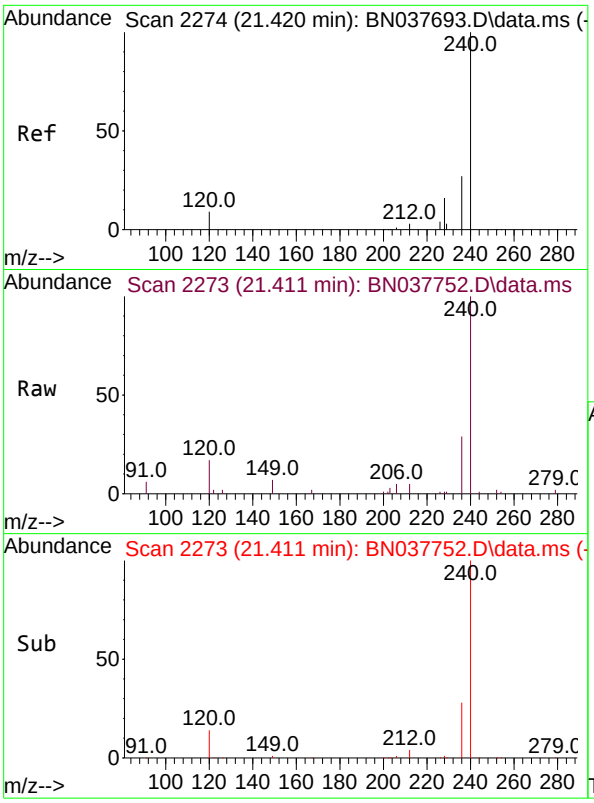




#27
Fluoranthene-d10
Concen: 0.348 ng
RT: 19.266 min Scan# 1957
Delta R.T. -0.005 min
Lab File: BN037752.D
Acq: 17 Sep 2025 18:49

Tgt Ion:212 Resp: 11725

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 212 | 100 | | |
| 106 | 15.4 | 12.2 | 18.2 |
| 104 | 8.8 | 6.9 | 10.3 |



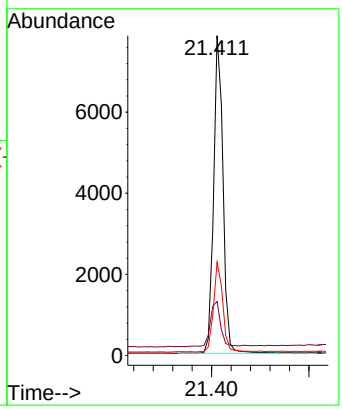


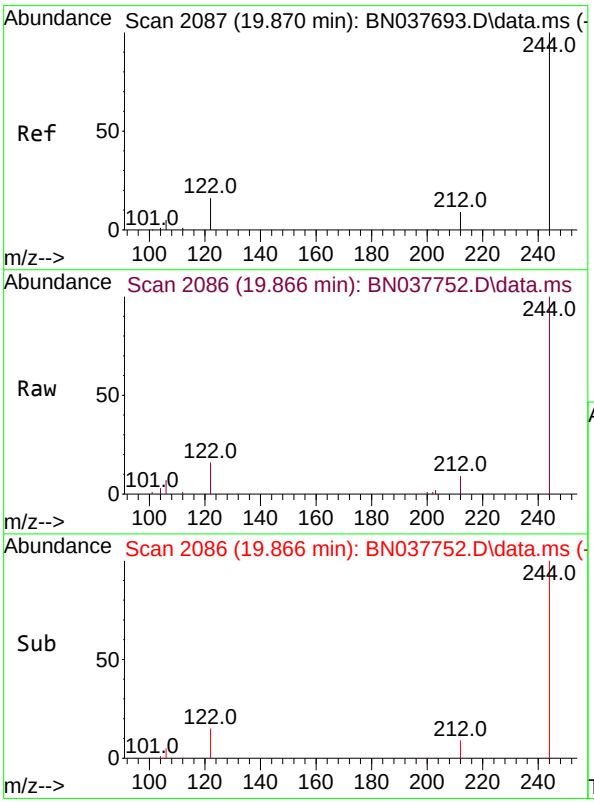

#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.411 min Scan# 21
Delta R.T. -0.009 min
Lab File: BN037752.D
Acq: 17 Sep 2025 18:49

**Instrument :**
BNA_N
**ClientSampleId :**
MW179D2-20250909

Tgt Ion:240 Resp: 10479

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 240 | 100 | | |
| 120 | 16.9 | 9.2 | 13.8# |
| 236 | 29.2 | 22.6 | 33.8 |

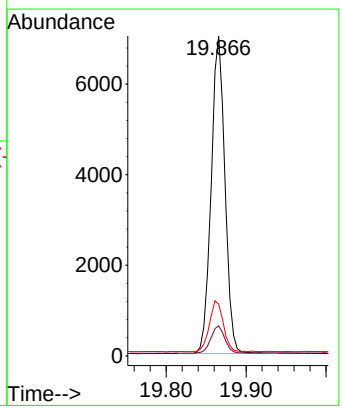


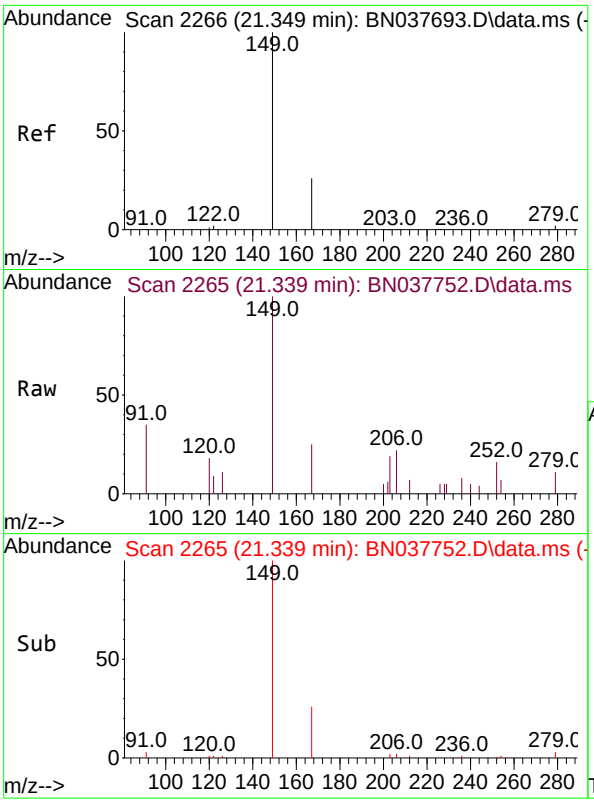




#31
Terphenyl-d14
Concen: 0.395 ng
RT: 19.866 min Scan# 2086
Delta R.T. -0.005 min
Lab File: BN037752.D
Acq: 17 Sep 2025 18:49

Tgt Ion:244 Resp: 8402

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 244 | 100 | | |
| 212 | 9.4 | 7.5 | 11.3 |
| 122 | 16.2 | 13.2 | 19.8 |



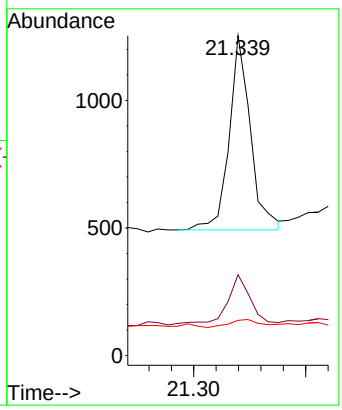


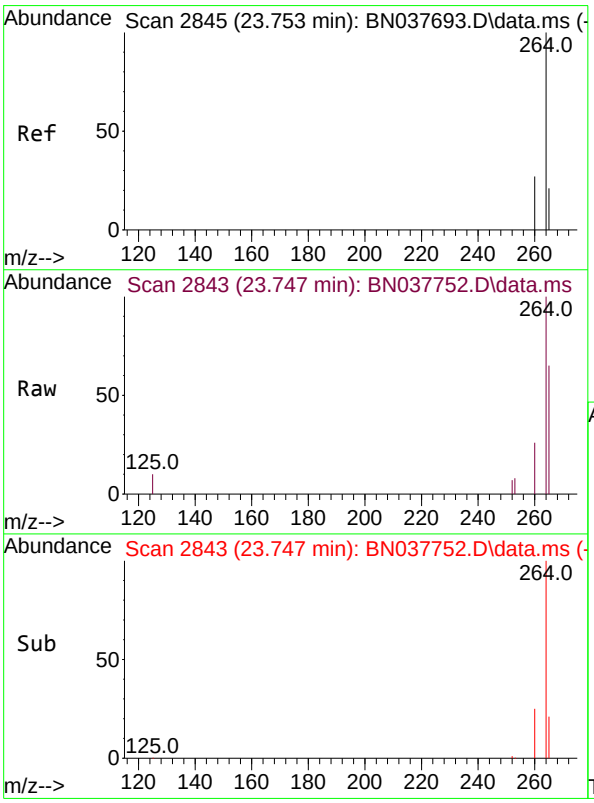

#34
Bis(2-ethylhexyl)phthalate
Concen: 0.093 ng
RT: 21.339 min Scan# 2
Delta R.T. -0.009 min
Lab File: BN037752.D
Acq: 17 Sep 2025 18:49

**Instrument :**
BNA_N
**ClientSampleId :**
MW179D2-20250909

Tgt Ion:149 Resp: 1006

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 149 | 100 | | |
| 167 | 25.0 | 20.8 | 31.2 |
| 279 | 6.3 | 3.3 | 4.9# |

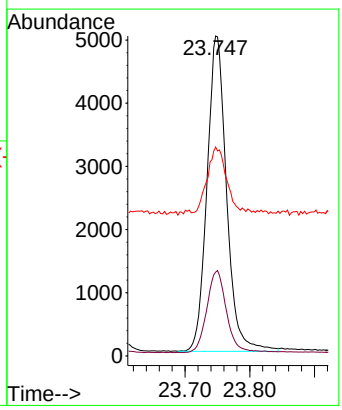



#35
Perylene-d12
Concen: 0.400 ng
RT: 23.747 min Scan# 2843
Delta R.T. -0.006 min
Lab File: BN037752.D
Acq: 17 Sep 2025 18:49

Tgt Ion:264 Resp: 10489

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 264 | 100 | | |
| 260 | 26.2 | 21.8 | 32.8 |
| 265 | 65.3 | 39.4 | 59.2# |



Raw Data: **BN037753.D**

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

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | AECOM Technical Services, Inc. | Date Collected: | 09/09/25 |
| Project: | NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258 | Date Received: | 09/12/25 |
| Client Sample ID: | MW201D1-20250909 | SDG No.: | Q3095 |
| Lab Sample ID: | Q3095-10 | Matrix: | Water |
| Analytical Method: | SW8270ESIM | % Solid: | 0 |
| Sample Wt/Vol: | 1000 Units: mL | Final Vol: | 1000 uL |
| Soil Aliquot Vol: | uL | Test: | SVOC-SIMGroup1 |
| Extraction Type : | Decanted : N | Level : | LOW |
| Injection Volume : | GPC Factor : 1.0 | GPC Cleanup : | N PH : |
| Prep Method : | | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| BN037753.D | 1 | 09/15/25 10:15 | 09/17/25 19:25 | PB169692 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOD | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | | |
| 123-91-1 | 1,4-Dioxane | 0.070 | J | 0.070 | 0.20 | 0.20 | ug/L |
| **SURROGATES** | | | | | | | |
| 7297-45-2 | 2-Methylnaphthalene-d10 | 0.29 | | 30 - 150 | | 72% | SPK: 0.4 |
| 93951-69-0 | Fluoranthene-d10 | 0.37 | | 30 - 150 | | 94% | SPK: 0.4 |
| 4165-60-0 | Nitrobenzene-d5 | 0.31 | | 55 - 111 | | 77% | SPK: 0.4 |
| 321-60-8 | 2-Fluorobiphenyl | 0.31 | | 53 - 106 | | 78% | SPK: 0.4 |
| 1718-51-0 | Terphenyl-d14 | 0.37 | | 58 - 132 | | 92% | SPK: 0.4 |
| **INTERNAL STANDARDS** | | | | | | | |
| 3855-82-1 | 1,4-Dichlorobenzene-d4 | 6380 | 7.833 | | | | |
| 1146-65-2 | Naphthalene-d8 | 17000 | 10.637 | | | | |
| 15067-26-2 | Acenaphthene-d10 | 7750 | 14.484 | | | | |
| 1517-22-2 | Phenanthrene-d10 | 13900 | 17.235 | | | | |
| 1719-03-5 | Chrysene-d12 | 12600 | 21.411 | | | | |
| 1520-96-3 | Perylene-d12 | 12800 | 23.747 | | | | |

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\BN091725\
Data File : BN037753.D
Acq On : 17 Sep 2025 19:25
Operator : RC/JU
Sample : Q3095-10
Misc :
ALS Vial : 15 Sample Multiplier: 1

**Instrument :**
BNA_N
**ClientSampleId :**
MW201D1-20250909

Quant Time: Sep 18 05:01:01 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN091125.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Sep 11 14:20:01 2025
Response via : Initial Calibration

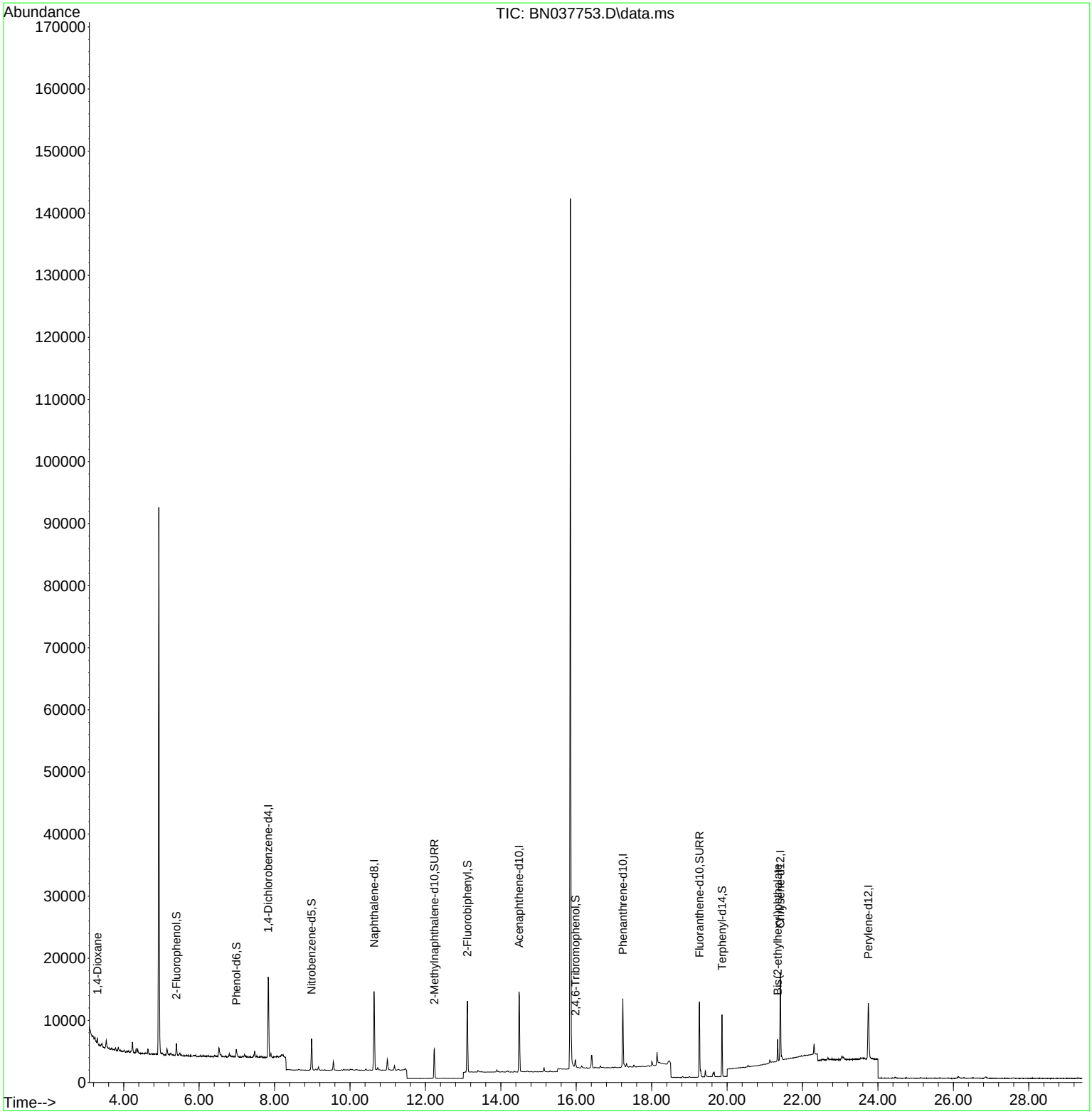
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) 1,4-Dichlorobenzene-d4 | 7.833 | 152 | 6375 | 0.400 | ng | 0.00 |
| 7) Naphthalene-d8 | 10.637 | 136 | 17020 | 0.400 | ng | -0.01 |
| 13) Acenaphthene-d10 | 14.484 | 164 | 7746 | 0.400 | ng | -0.01 |
| 19) Phenanthrene-d10 | 17.235 | 188 | 13901 | 0.400 | ng | # 0.00 |
| 29) Chrysene-d12 | 21.411 | 240 | 12559 | 0.400 | ng | # 0.00 |
| 35) Perylene-d12 | 23.747 | 264 | 12839 | 0.400 | ng | 0.00 |
| System Monitoring Compounds | | | | | | |
| 4) 2-Fluorophenol | 5.399 | 112 | 1556 | 0.106 | ng | 0.00 |
| 5) Phenol-d6 | 6.988 | 99 | 1116 | 0.059 | ng | 0.00 |
| 8) Nitrobenzene-d5 | 8.982 | 82 | 3852 | 0.309 | ng | -0.01 |
| 11) 2-Methylnaphthalene-d10 | 12.238 | 152 | 6496 | 0.288 | ng | 0.00 |
| 14) 2,4,6-Tribromophenol | 15.982 | 330 | 788 | 0.390 | ng | 0.00 |
| 15) 2-Fluorobiphenyl | 13.115 | 172 | 10071 | 0.311 | ng | 0.00 |
| 27) Fluoranthene-d10 | 19.266 | 212 | 13047 | 0.374 | ng | 0.00 |
| 31) Terphenyl-d14 | 19.866 | 244 | 9418 | 0.369 | ng | 0.00 |
| Target Compounds | | | | | | Qvalue |
| 2) 1,4-Dioxane | 3.304 | 88 | 493 | 0.074 | ng | # 64 |
| 34) Bis(2-ethylhexyl)phtha... | 21.340 | 149 | 3423 | 0.264 | ng | 100 |

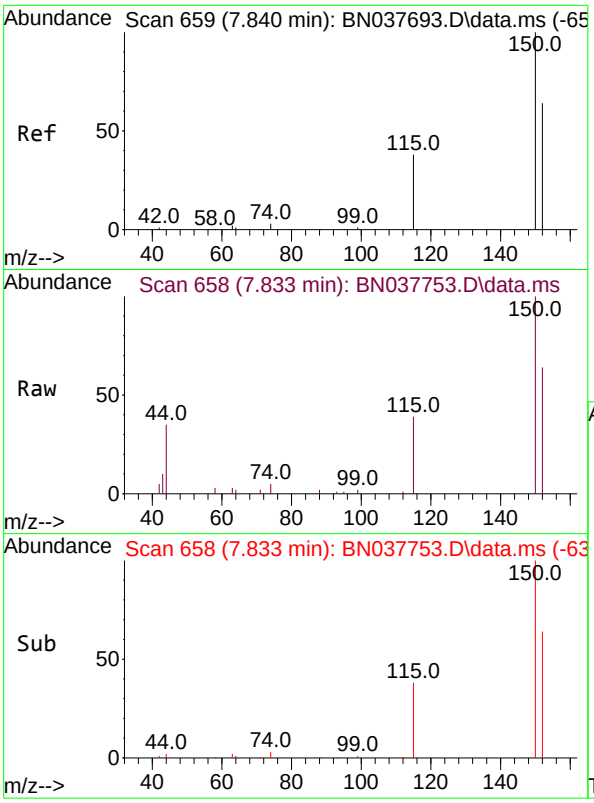
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN091725\
Data File : BN037753.D
Acq On : 17 Sep 2025 19:25
Operator : RC/JU
Sample : Q3095-10
Misc :
ALS Vial : 15 Sample Multiplier: 1

**Instrument :**
BNA_N
**ClientSampleId :**
MW201D1-20250909

Quant Time: Sep 18 05:01:01 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN091125.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Sep 11 14:20:01 2025
Response via : Initial Calibration



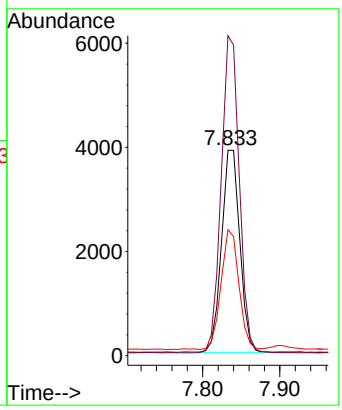


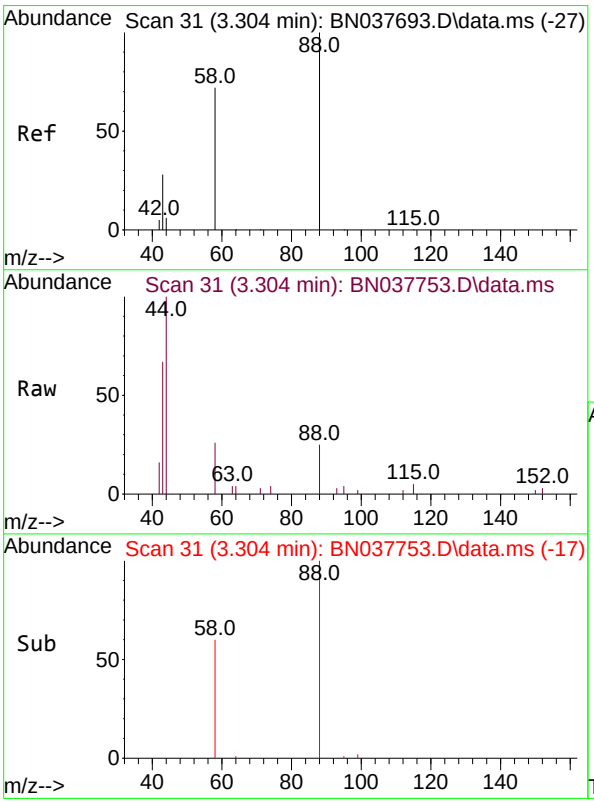

#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.833 min Scan# 6
Delta R.T. -0.007 min
Lab File: BN037753.D
Acq: 17 Sep 2025 19:25

**Instrument :**
BNA_N
**ClientSampleId :**
MW201D1-20250909

Tgt Ion:152 Resp: 6375

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 150 | 155.9 | 124.5 | 186.7 |
| 115 | 61.3 | 49.2 | 73.8 |

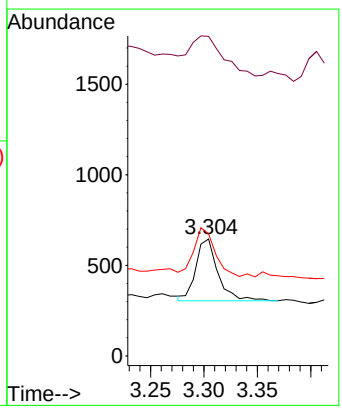


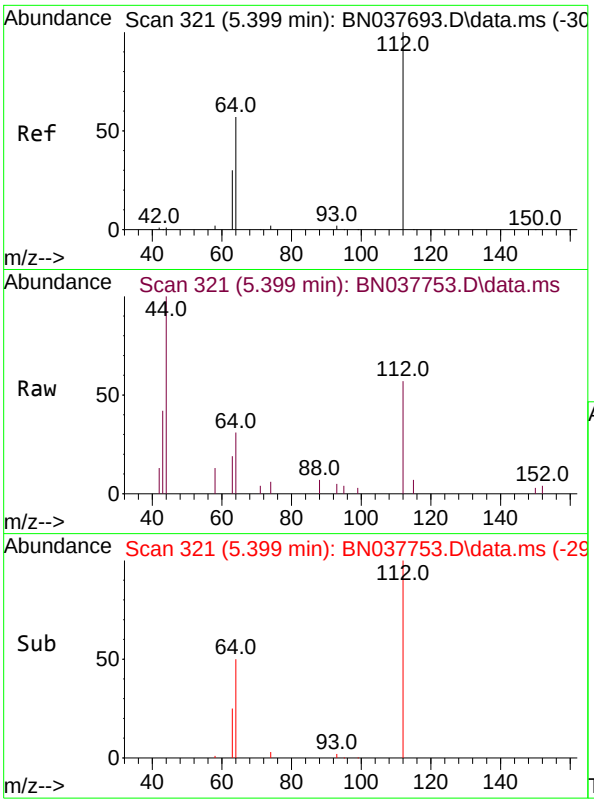




#2
1,4-Dioxane
Concen: 0.074 ng
RT: 3.304 min Scan# 31
Delta R.T. -0.000 min
Lab File: BN037753.D
Acq: 17 Sep 2025 19:25

Tgt Ion: 88 Resp: 493

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 88 | 100 | | |
| 43 | 98.2 | 26.8 | 40.2# |
| 58 | 75.1 | 61.9 | 92.9 |



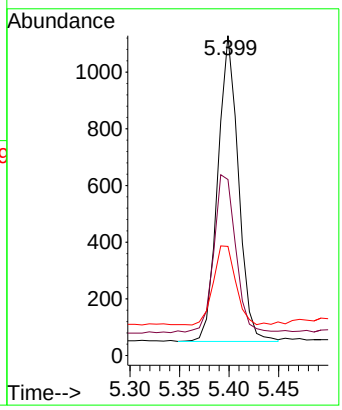


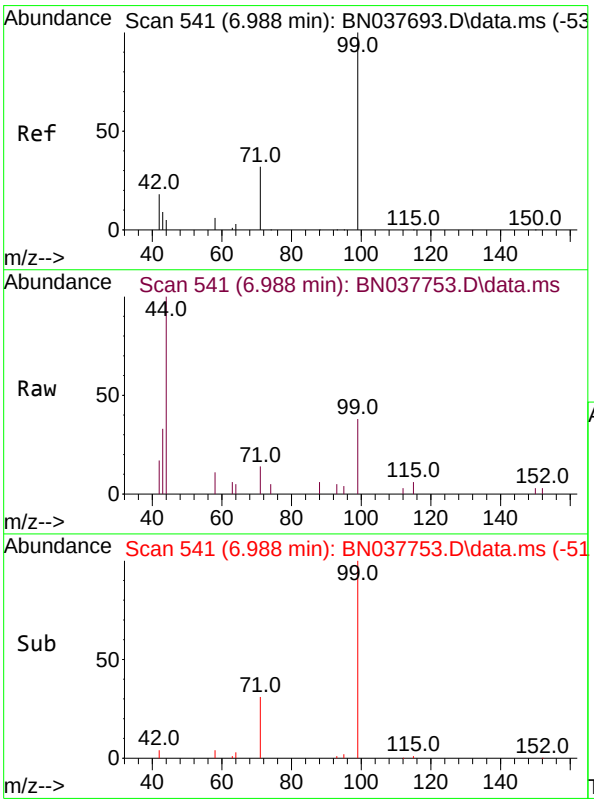

#4
2-Fluorophenol
Concen: 0.106 ng
RT: 5.399 min Scan# 3
Delta R.T. -0.000 min
Lab File: BN037753.D
Acq: 17 Sep 2025 19:25

**Instrument :**
BNA_N
**ClientSampleId :**
MW201D1-20250909

Tgt Ion:112 Resp: 1556

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 112 | 100 | | |
| 64 | 55.1 | 44.9 | 67.3 |
| 63 | 27.9 | 24.7 | 37.1 |

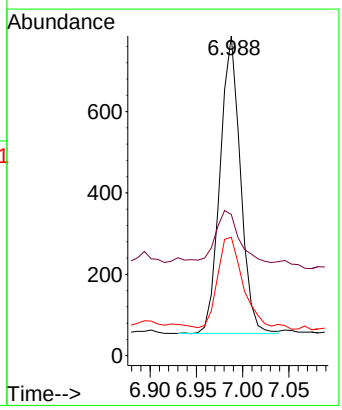


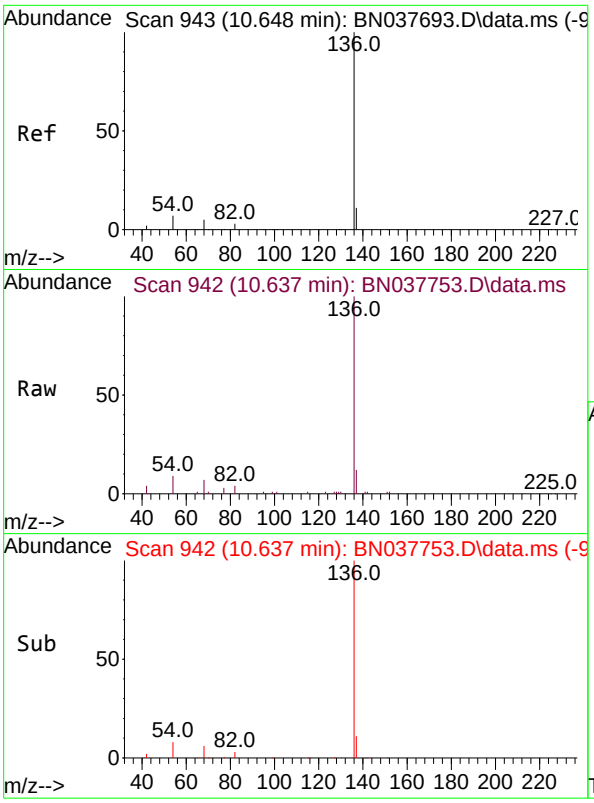




#5
Phenol-d6
Concen: 0.059 ng
RT: 6.988 min Scan# 541
Delta R.T. -0.000 min
Lab File: BN037753.D
Acq: 17 Sep 2025 19:25

Tgt Ion: 99 Resp: 1116

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 99 | 100 | | |
| 42 | 19.7 | 16.6 | 24.8 |
| 71 | 39.9 | 26.7 | 40.1 |



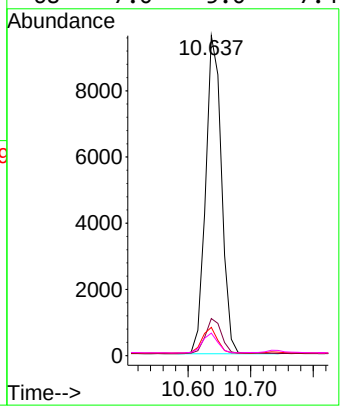


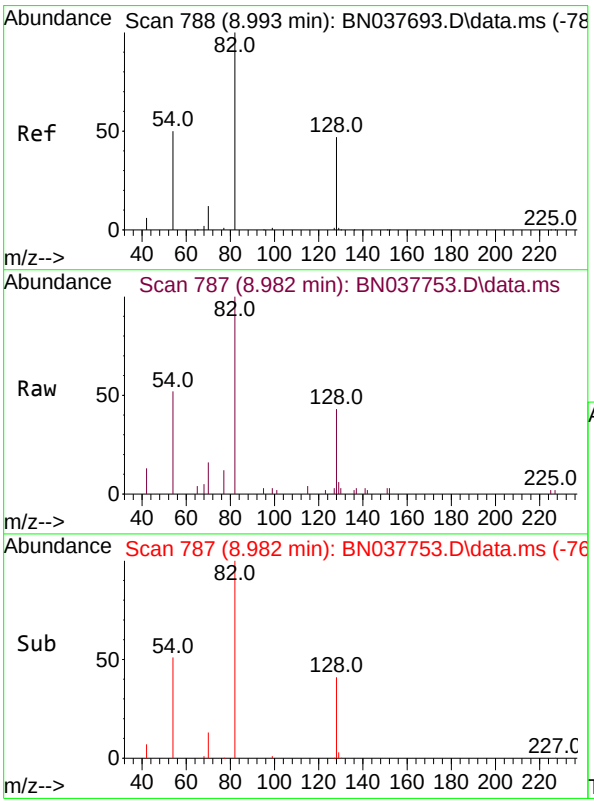

#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.637 min Scan# 94
Delta R.T. -0.011 min
Lab File: BN037753.D
Acq: 17 Sep 2025 19:25

**Instrument :**
BNA_N
**ClientSampleId :**
MW201D1-20250909

Tgt Ion:136 Resp: 17020

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 136 | 100 | | |
| 137 | 11.6 | 9.1 | 13.7 |
| 54 | 8.8 | 6.3 | 9.5 |
| 68 | 7.0 | 5.0 | 7.4 |

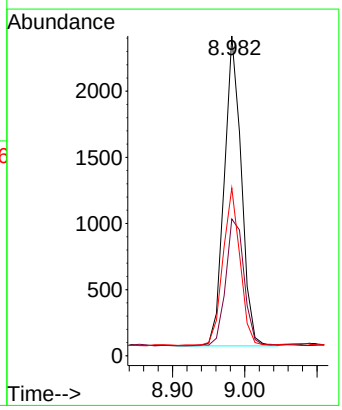


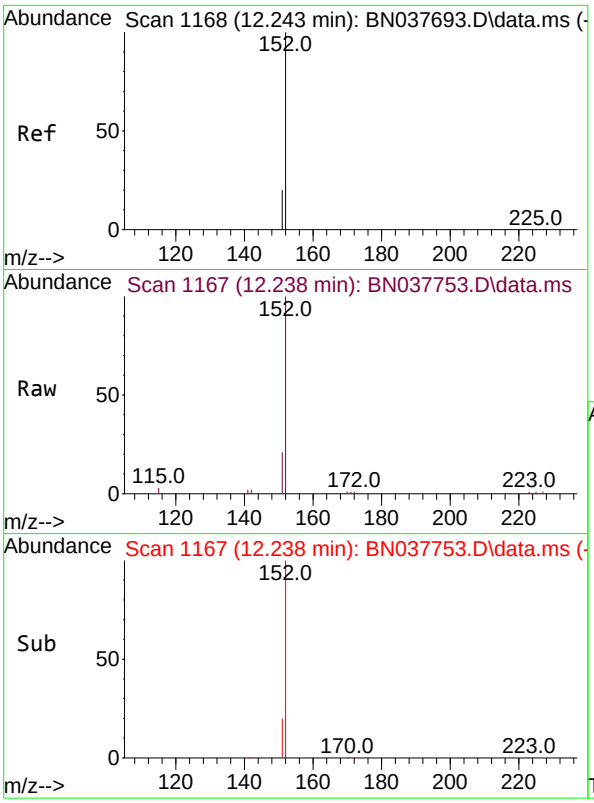




#8
Nitrobenzene-d5
Concen: 0.309 ng
RT: 8.982 min Scan# 787
Delta R.T. -0.011 min
Lab File: BN037753.D
Acq: 17 Sep 2025 19:25

Tgt Ion: 82 Resp: 3852

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 82 | 100 | | |
| 128 | 42.8 | 38.3 | 57.5 |
| 54 | 52.5 | 41.4 | 62.2 |



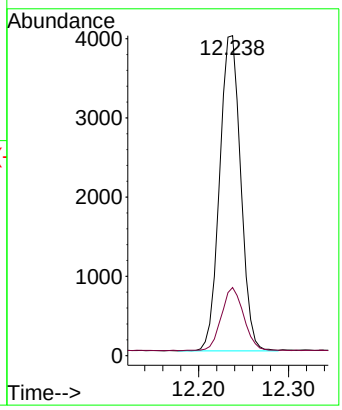


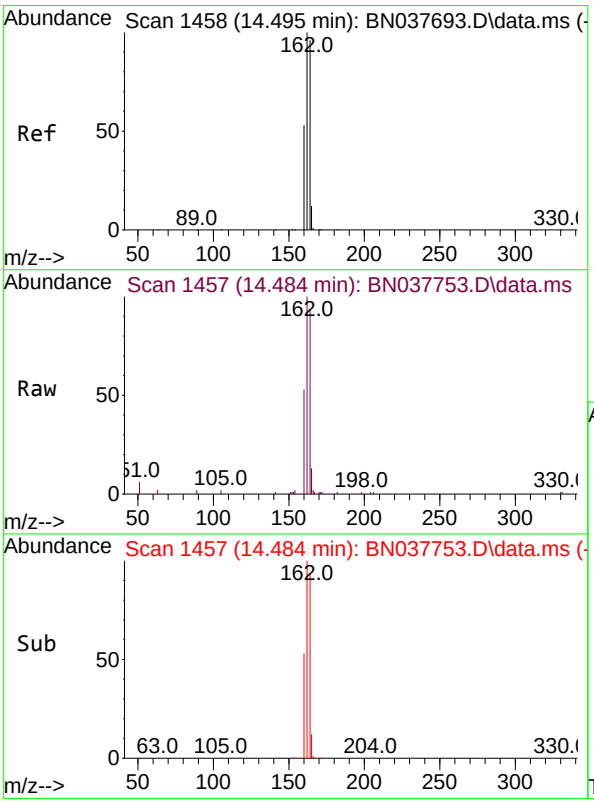

#11
2-Methylnaphthalene-d10
Concen: 0.288 ng
RT: 12.238 min Scan# 11
Delta R.T. -0.005 min
Lab File: BN037753.D
Acq: 17 Sep 2025 19:25

**Instrument :**
BNA_N
**ClientSampleId :**
MW201D1-20250909

Tgt Ion:152 Resp: 6496

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

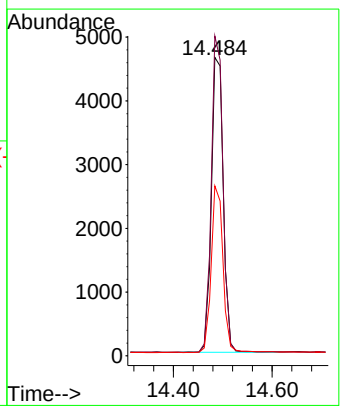


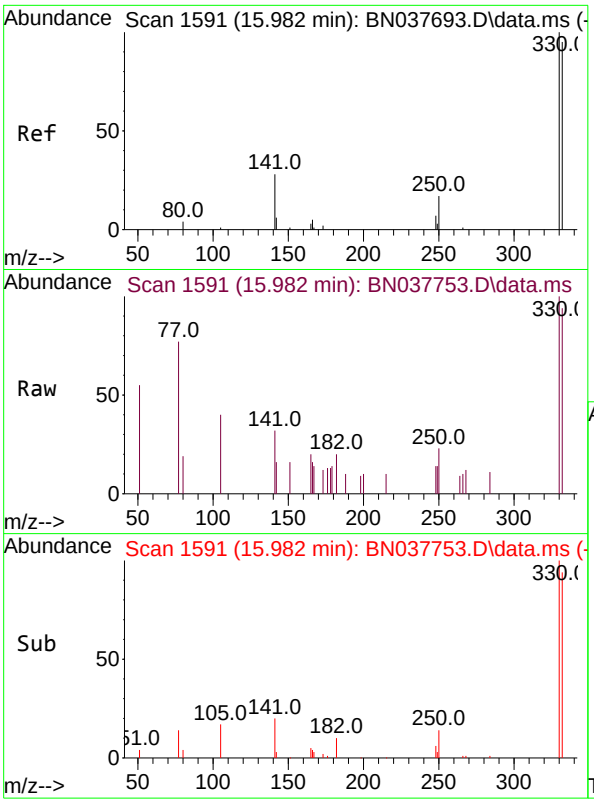




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.484 min Scan# 1457
Delta R.T. -0.011 min
Lab File: BN037753.D
Acq: 17 Sep 2025 19:25

Tgt Ion:164 Resp: 7746

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 164 | 100 | | |
| 162 | 107.2 | 83.1 | 124.7 |
| 160 | 57.0 | 44.3 | 66.5 |



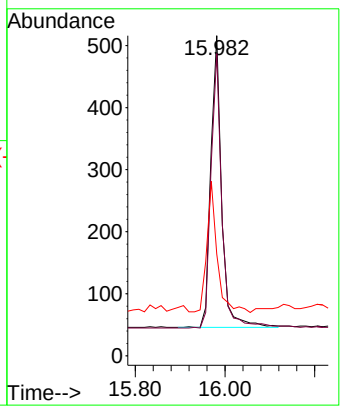


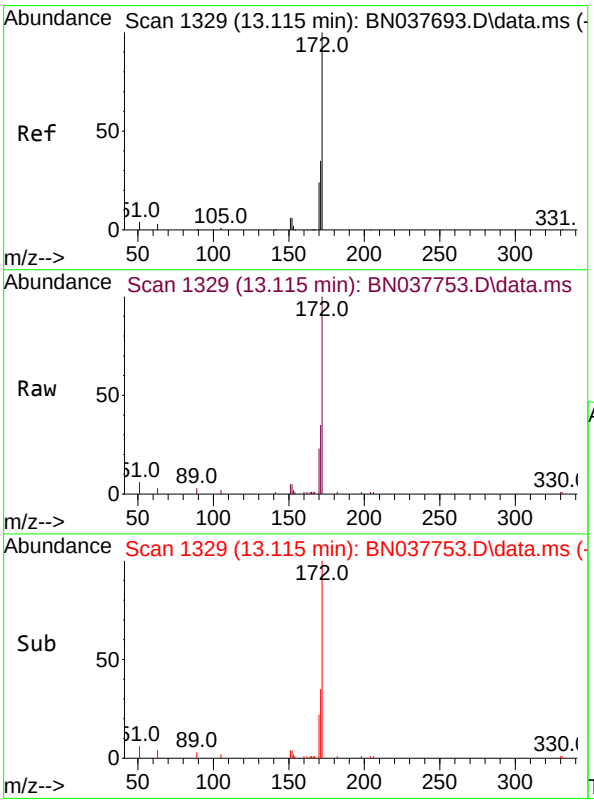

#14
2,4,6-Tribromophenol
Concen: 0.390 ng
RT: 15.982 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN037753.D
Acq: 17 Sep 2025 19:25

**Instrument :**
BNA_N
**ClientSampleId :**
MW201D1-20250909

Tgt Ion:330 Resp: 788

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 330 | 100 | | |
| 332 | 94.8 | 75.3 | 112.9 |
| 141 | 42.8 | 35.0 | 52.4 |

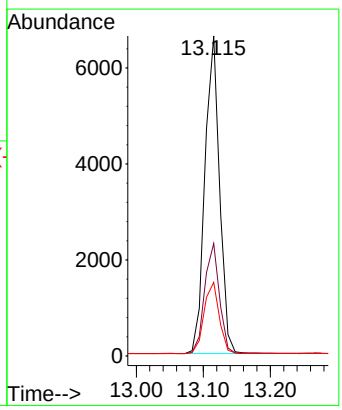


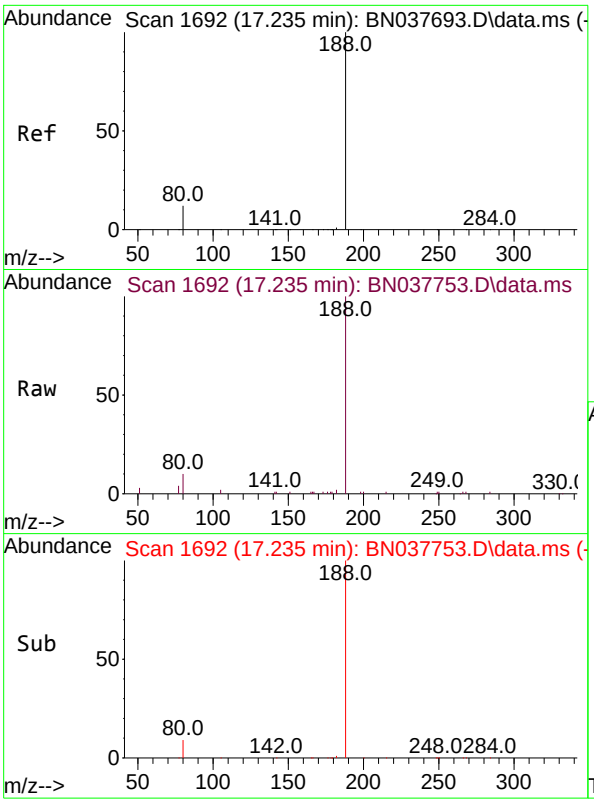




#15
2-Fluorobiphenyl
Concen: 0.311 ng
RT: 13.115 min Scan# 1329
Delta R.T. -0.000 min
Lab File: BN037753.D
Acq: 17 Sep 2025 19:25

Tgt Ion:172 Resp: 10071

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 172 | 100 | | |
| 171 | 35.1 | 28.6 | 43.0 |
| 170 | 23.0 | 19.8 | 29.8 |



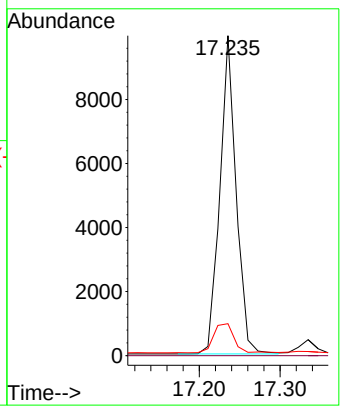


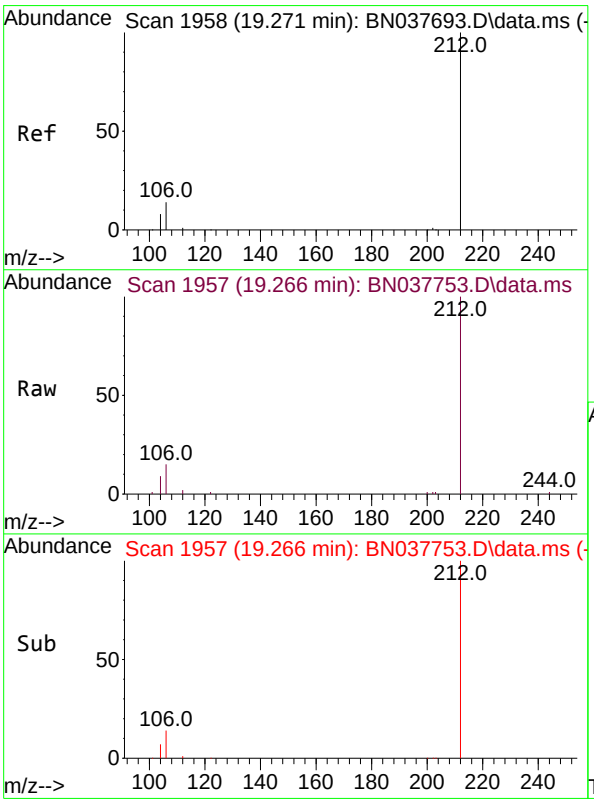

#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.235 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN037753.D
Acq: 17 Sep 2025 19:25

**Instrument :**
BNA_N
**ClientSampleId :**
MW201D1-20250909

Tgt Ion:188 Resp: 13901

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 188 | 100 | | |
| 94 | 0.0 | 0.0 | 0.0 |
| 80 | 10.0 | 10.6 | 15.8# |

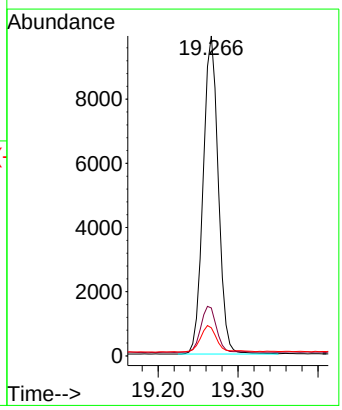


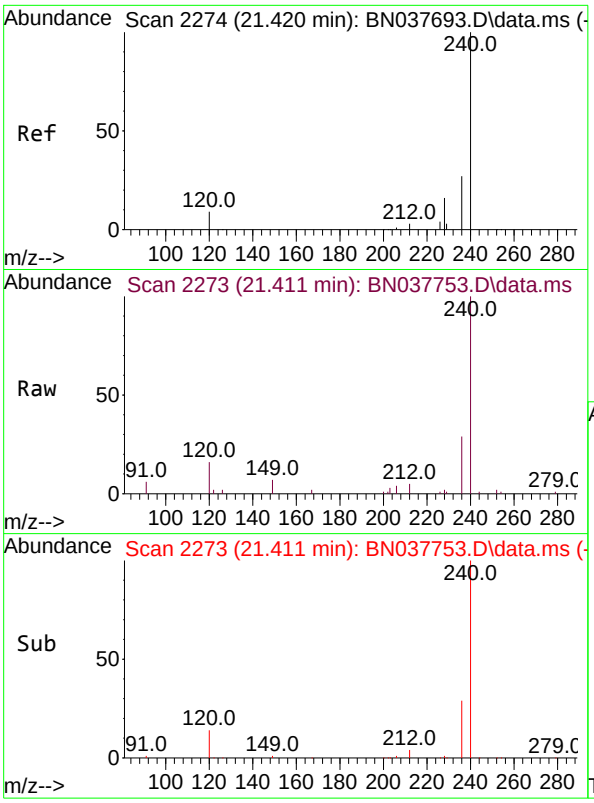




#27
Fluoranthene-d10
Concen: 0.374 ng
RT: 19.266 min Scan# 1957
Delta R.T. -0.005 min
Lab File: BN037753.D
Acq: 17 Sep 2025 19:25

Tgt Ion:212 Resp: 13047

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 212 | 100 | | |
| 106 | 15.3 | 12.2 | 18.2 |
| 104 | 8.5 | 6.9 | 10.3 |



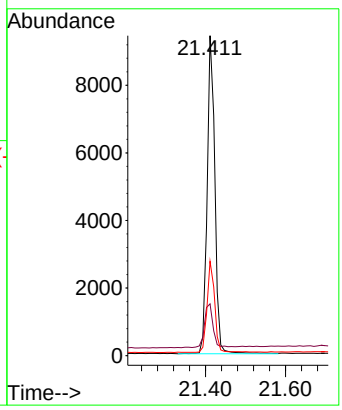


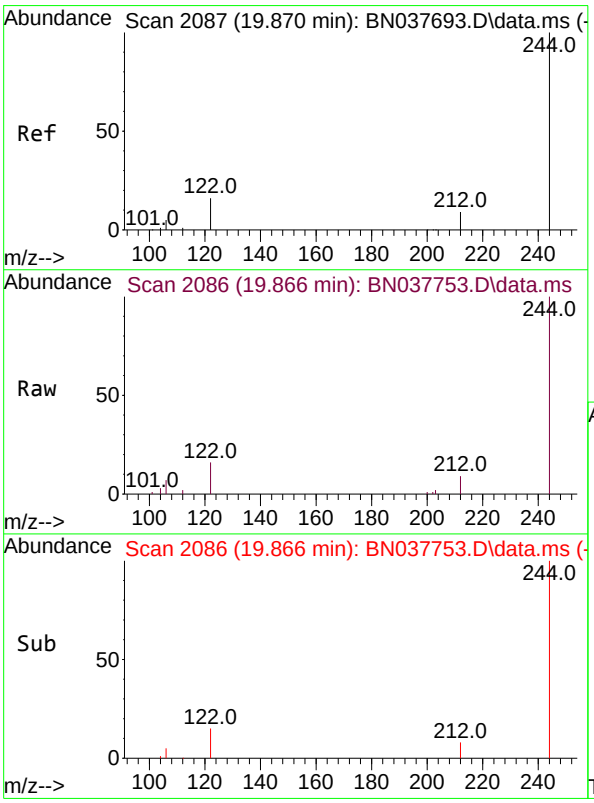

#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.411 min Scan# 2
Delta R.T. -0.009 min
Lab File: BN037753.D
Acq: 17 Sep 2025 19:25

**Instrument :**
BNA_N
**ClientSampleId :**
MW201D1-20250909

Tgt Ion:240 Resp: 12559

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 240 | 100 | | |
| 120 | 16.2 | 9.2 | 13.8# |
| 236 | 29.5 | 22.6 | 33.8 |

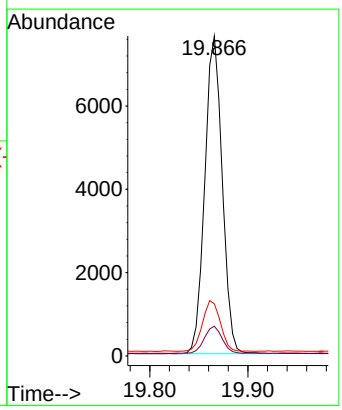


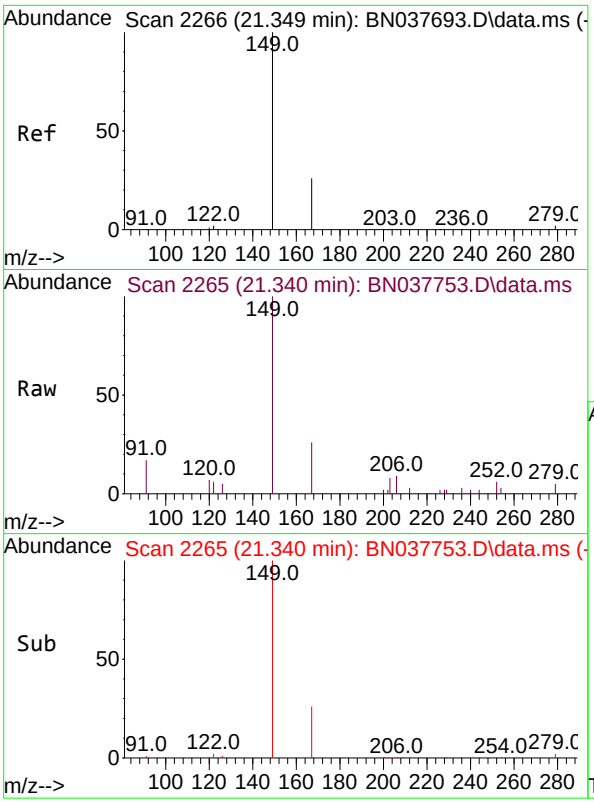




#31
Terphenyl-d14
Concen: 0.369 ng
RT: 19.866 min Scan# 2086
Delta R.T. -0.005 min
Lab File: BN037753.D
Acq: 17 Sep 2025 19:25

Tgt Ion:244 Resp: 9418

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 244 | 100 | | |
| 212 | 9.3 | 7.5 | 11.3 |
| 122 | 16.3 | 13.2 | 19.8 |



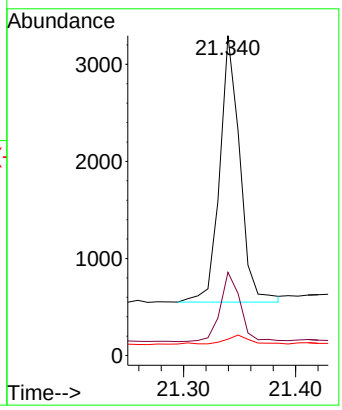


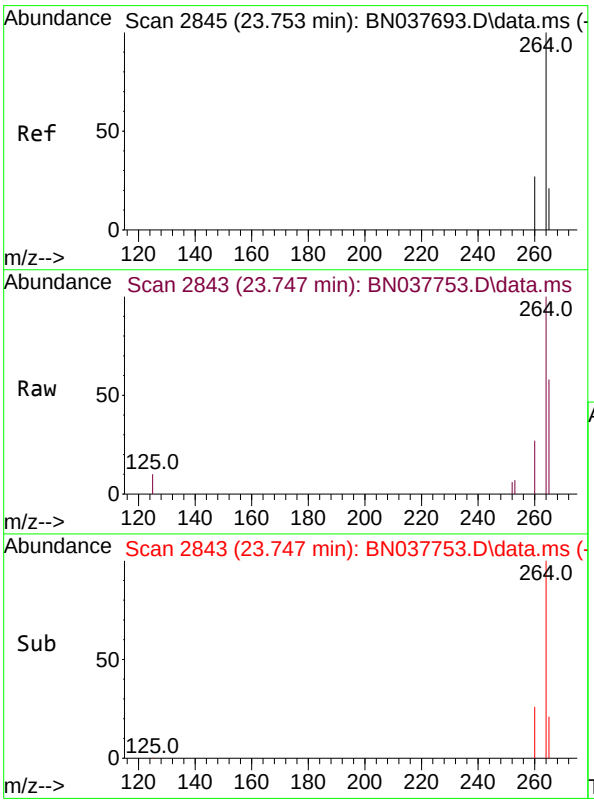

#34
Bis(2-ethylhexyl)phthalate
Concen: 0.264 ng
RT: 21.340 min Scan# 2
Delta R.T. -0.009 min
Lab File: BN037753.D
Acq: 17 Sep 2025 19:25

**Instrument :**
BNA_N
**ClientSampleId :**
MW201D1-20250909

Tgt Ion:149 Resp: 3423

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 149 | 100 | | |
| 167 | 26.1 | 20.8 | 31.2 |
| 279 | 3.8 | 3.3 | 4.9 |

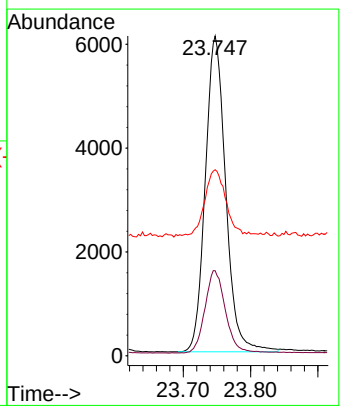



#35
Perylene-d12
Concen: 0.400 ng
RT: 23.747 min Scan# 2843
Delta R.T. -0.006 min
Lab File: BN037753.D
Acq: 17 Sep 2025 19:25

Tgt Ion:264 Resp: 12839

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 264 | 100 | | |
| 260 | 26.6 | 21.8 | 32.8 |
| 265 | 58.2 | 39.4 | 59.2 |



Raw Data: **BN037754.D**

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

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | AECOM Technical Services, Inc. | Date Collected: | 09/09/25 |
| Project: | NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258 | Date Received: | 09/12/25 |
| Client Sample ID: | RE122D1-20250909 | SDG No.: | Q3095 |
| Lab Sample ID: | Q3095-11 | Matrix: | Water |
| Analytical Method: | SW8270ESIM | % Solid: | 0 |
| Sample Wt/Vol: | 1000 Units: mL | Final Vol: | 1000 uL |
| Soil Aliquot Vol: | uL | Test: | SVOC-SIMGroup1 |
| Extraction Type : | Decanted : N | Level : | LOW |
| Injection Volume : | GPC Factor : 1.0 | GPC Cleanup : | N PH : |
| Prep Method : | | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| BN037754.D | 1 | 09/15/25 10:15 | 09/17/25 20:01 | PB169692 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOD | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | | |
| 123-91-1 | 1,4-Dioxane | 2.80 | | 0.070 | 0.20 | 0.20 | ug/L |
| **SURROGATES** | | | | | | | |
| 7297-45-2 | 2-Methylnaphthalene-d10 | 0.34 | | 30 - 150 | | 84% | SPK: 0.4 |
| 93951-69-0 | Fluoranthene-d10 | 0.37 | | 30 - 150 | | 93% | SPK: 0.4 |
| 4165-60-0 | Nitrobenzene-d5 | 0.36 | | 55 - 111 | | 90% | SPK: 0.4 |
| 321-60-8 | 2-Fluorobiphenyl | 0.35 | | 53 - 106 | | 87% | SPK: 0.4 |
| 1718-51-0 | Terphenyl-d14 | 0.46 | | 58 - 132 | | 116% | SPK: 0.4 |
| **INTERNAL STANDARDS** | | | | | | | |
| 3855-82-1 | 1,4-Dichlorobenzene-d4 | 6750 | 7.833 | | | | |
| 1146-65-2 | Naphthalene-d8 | 18500 | 10.637 | | | | |
| 15067-26-2 | Acenaphthene-d10 | 8720 | 14.494 | | | | |
| 1517-22-2 | Phenanthrene-d10 | 14500 | 17.235 | | | | |
| 1719-03-5 | Chrysene-d12 | 10800 | 21.411 | | | | |
| 1520-96-3 | Perylene-d12 | 10800 | 23.75 | | | | |

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\BN091725\
Data File : BN037754.D
Acq On : 17 Sep 2025 20:01
Operator : RC/JU
Sample : Q3095-11
Misc :
ALS Vial : 16 Sample Multiplier: 1

**Instrument :**
BNA_N
**ClientSampleId :**
RE122D1-20250909

Quant Time: Sep 18 05:01:17 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN091125.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Sep 11 14:20:01 2025
Response via : Initial Calibration

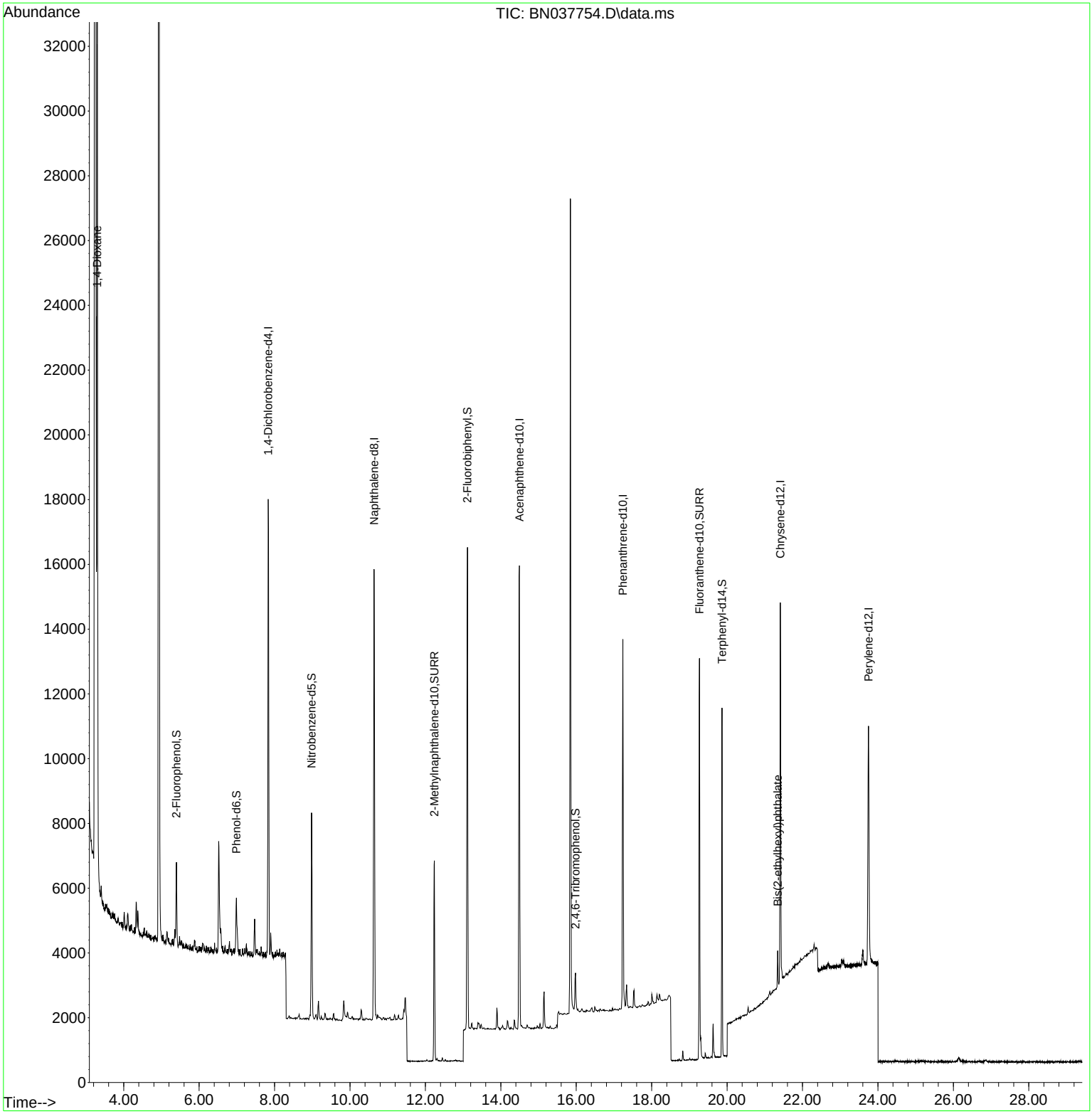
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) 1,4-Dichlorobenzene-d4 | 7.833 | 152 | 6754 | 0.400 | ng | 0.00 |
| 7) Naphthalene-d8 | 10.637 | 136 | 18549 | 0.400 | ng | -0.01 |
| 13) Acenaphthene-d10 | 14.494 | 164 | 8723 | 0.400 | ng | 0.00 |
| 19) Phenanthrene-d10 | 17.235 | 188 | 14502 | 0.400 | ng | # 0.00 |
| 29) Chrysene-d12 | 21.411 | 240 | 10754 | 0.400 | ng | # 0.00 |
| 35) Perylene-d12 | 23.750 | 264 | 10771 | 0.400 | ng | # 0.00 |
| System Monitoring Compounds | | | | | | |
| 4) 2-Fluorophenol | 5.399 | 112 | 2035 | 0.131 | ng | 0.00 |
| 5) Phenol-d6 | 6.988 | 99 | 1494 | 0.074 | ng | 0.00 |
| 8) Nitrobenzene-d5 | 8.982 | 82 | 4878 | 0.360 | ng | -0.01 |
| 11) 2-Methylnaphthalene-d10 | 12.238 | 152 | 8309 | 0.338 | ng | 0.00 |
| 14) 2,4,6-Tribromophenol | 15.982 | 330 | 798 | 0.351 | ng | 0.00 |
| 15) 2-Fluorobiphenyl | 13.115 | 172 | 12743 | 0.349 | ng | 0.00 |
| 27) Fluoranthene-d10 | 19.266 | 212 | 13539 | 0.372 | ng | 0.00 |
| 31) Terphenyl-d14 | 19.866 | 244 | 10113 | 0.463 | ng | 0.00 |
| Target Compounds | | | | | | Qvalue |
| 2) 1,4-Dioxane | 3.297 | 88 | 19862 | 2.823 | ng | 94 |
| 34) Bis(2-ethylhexyl)phtha... | 21.340 | 149 | 1128 | 0.101 | ng | # 97 |

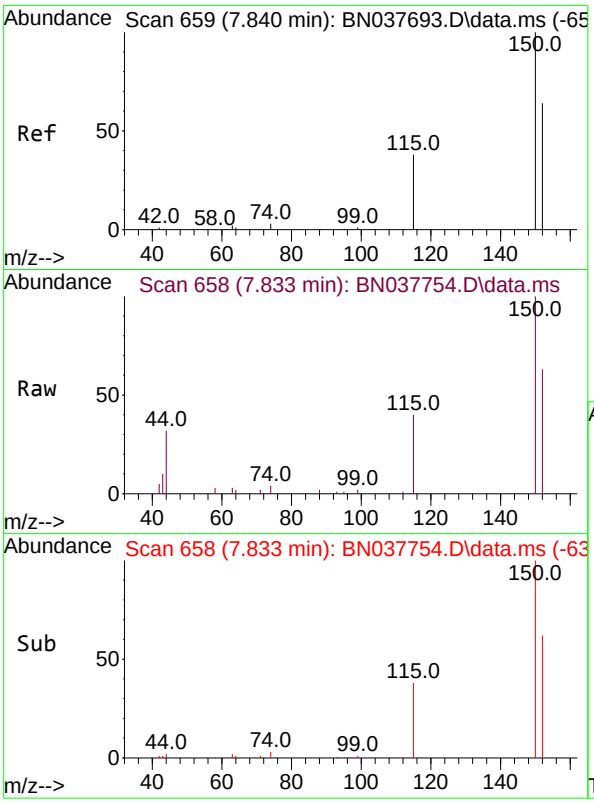
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN091725\
Data File : BN037754.D
Acq On : 17 Sep 2025 20:01
Operator : RC/JU
Sample : Q3095-11
Misc :
ALS Vial : 16 Sample Multiplier: 1

**Instrument :**
BNA_N
**ClientSampleId :**
RE122D1-20250909

Quant Time: Sep 18 05:01:17 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN091125.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Sep 11 14:20:01 2025
Response via : Initial Calibration



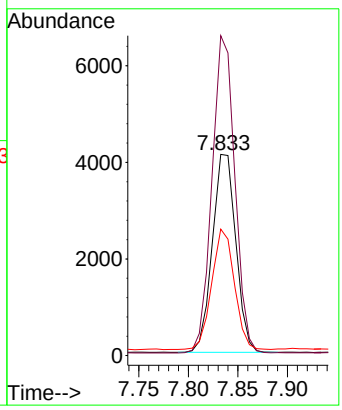


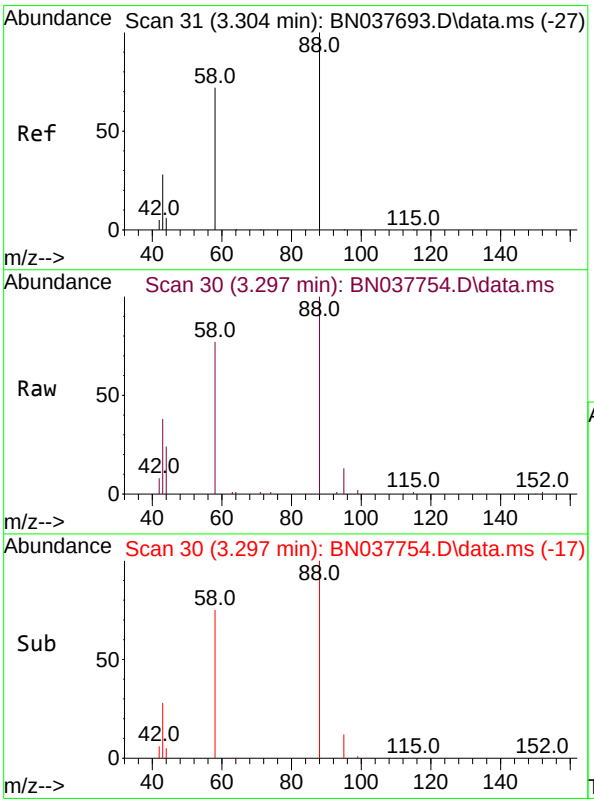

#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.833 min Scan# 6
Delta R.T. -0.007 min
Lab File: BN037754.D
Acq: 17 Sep 2025 20:01

**Instrument :**
BNA_N
**ClientSampleId :**
RE122D1-20250909

Tgt Ion:152 Resp: 6754

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 150 | 159.0 | 124.5 | 186.7 |
| 115 | 62.8 | 49.2 | 73.8 |

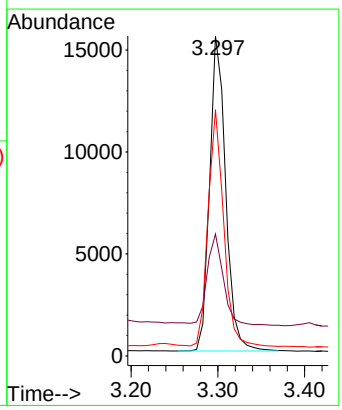


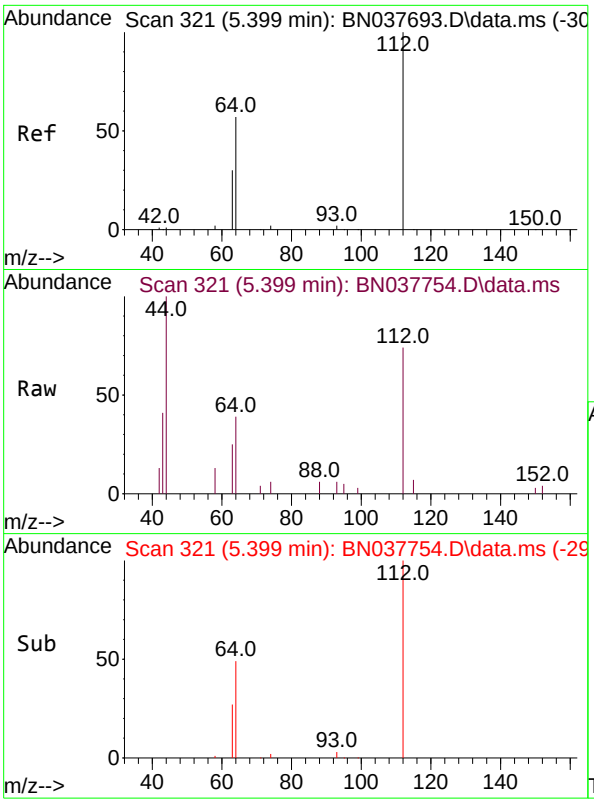




#2
1,4-Dioxane
Concen: 2.823 ng
RT: 3.297 min Scan# 30
Delta R.T. -0.007 min
Lab File: BN037754.D
Acq: 17 Sep 2025 20:01

Tgt Ion: 88 Resp: 19862

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 88 | 100 | | |
| 43 | 29.1 | 26.8 | 40.2 |
| 58 | 72.8 | 61.9 | 92.9 |



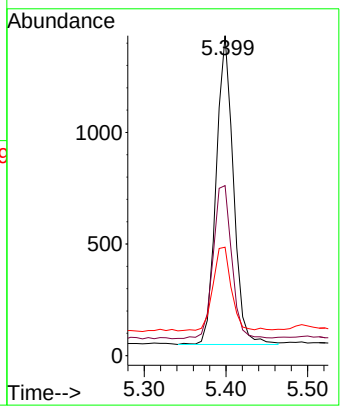


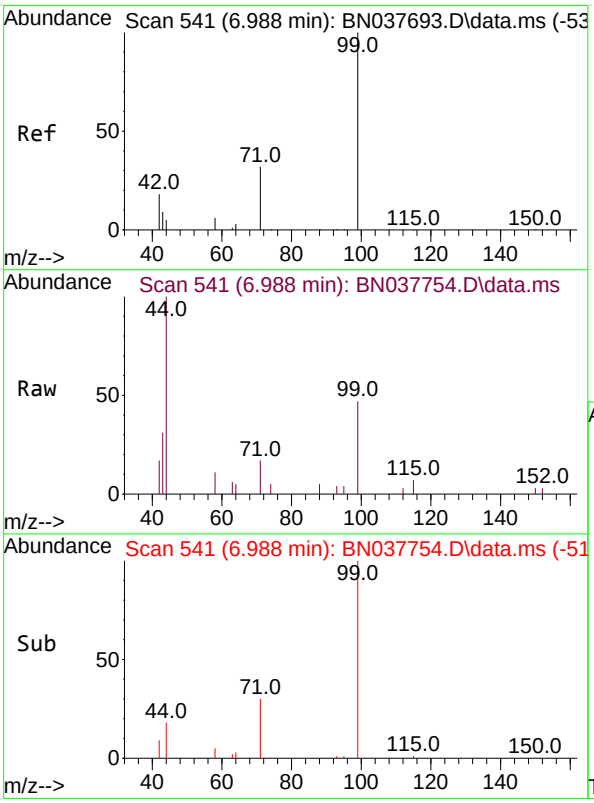

#4
2-Fluorophenol
Concen: 0.131 ng
RT: 5.399 min Scan# 3
Delta R.T. -0.000 min
Lab File: BN037754.D
Acq: 17 Sep 2025 20:01

**Instrument :**
BNA_N
**ClientSampleId :**
RE122D1-20250909

Tgt Ion:112 Resp: 2035

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 112 | 100 | | |
| 64 | 53.4 | 44.9 | 67.3 |
| 63 | 29.5 | 24.7 | 37.1 |

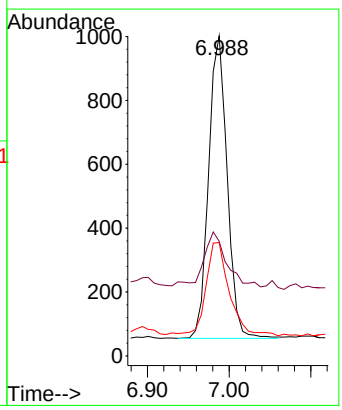


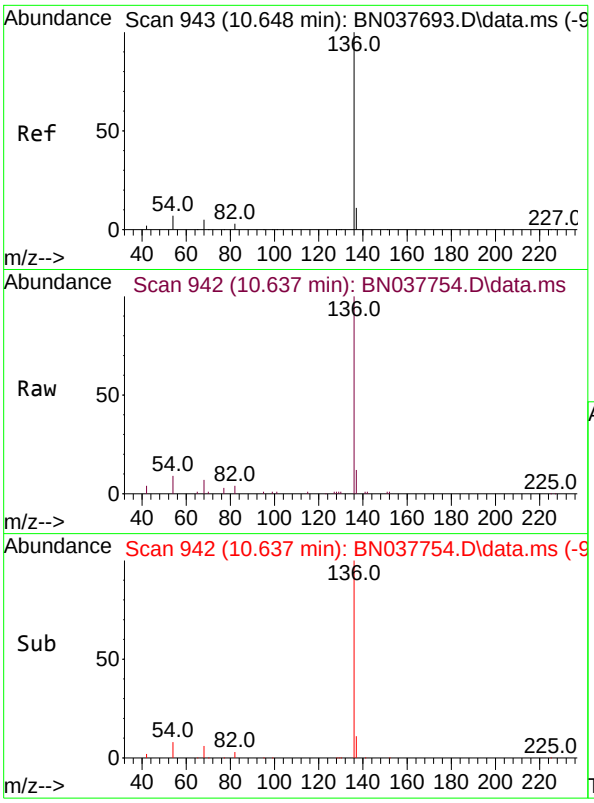




#5
Phenol-d6
Concen: 0.074 ng
RT: 6.988 min Scan# 541
Delta R.T. -0.000 min
Lab File: BN037754.D
Acq: 17 Sep 2025 20:01

Tgt Ion: 99 Resp: 1494

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 99 | 100 | | |
| 42 | 23.1 | 16.6 | 24.8 |
| 71 | 39.6 | 26.7 | 40.1 |



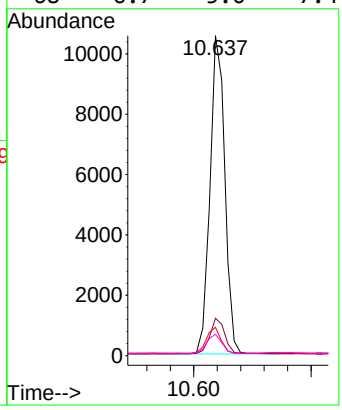


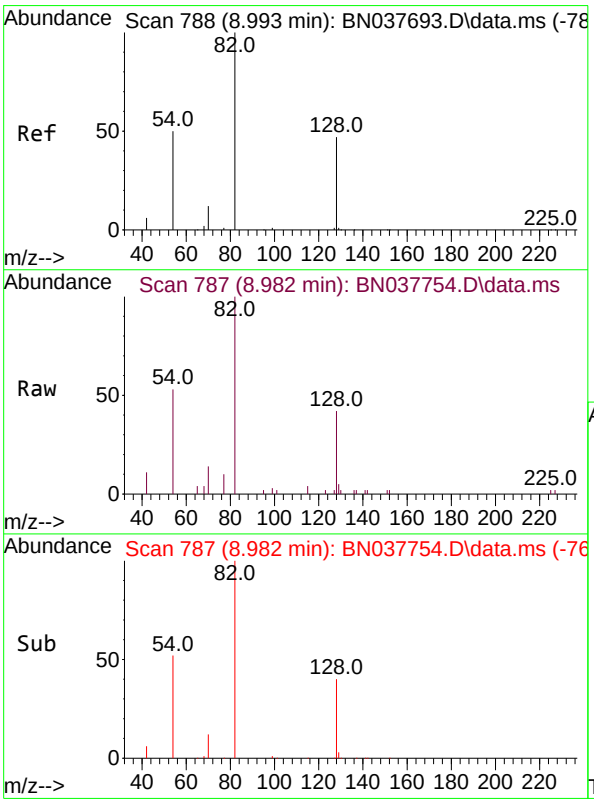

#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.637 min Scan# 94
Delta R.T. -0.011 min
Lab File: BN037754.D
Acq: 17 Sep 2025 20:01

**Instrument :**
BNA_N
**ClientSampleId :**
RE122D1-20250909

Tgt Ion:136 Resp: 18549

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 136 | 100 | | |
| 137 | 11.7 | 9.1 | 13.7 |
| 54 | 8.8 | 6.3 | 9.5 |
| 68 | 6.7 | 5.0 | 7.4 |

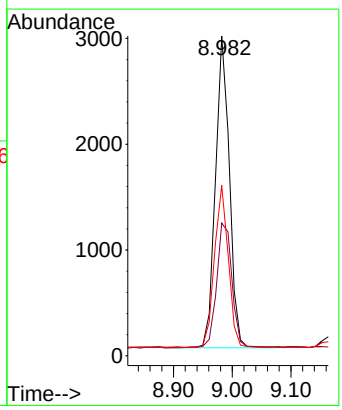


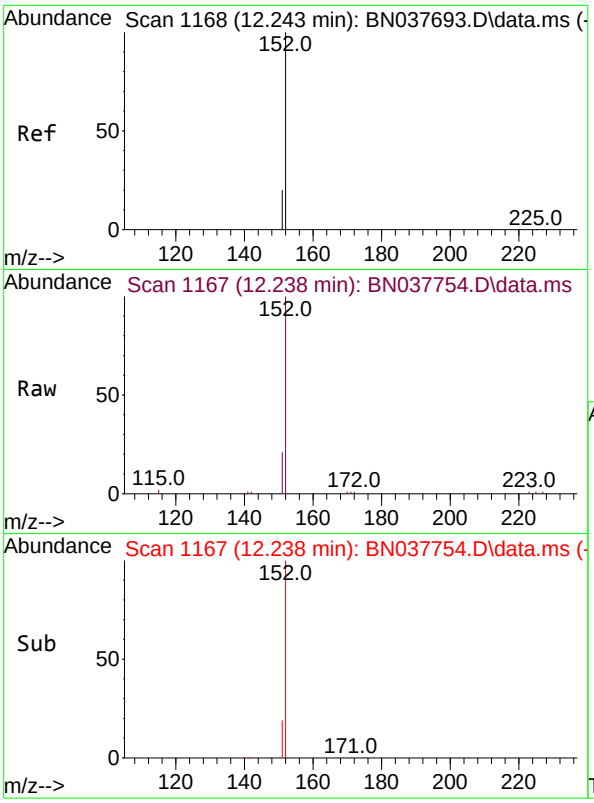




#8
Nitrobenzene-d5
Concen: 0.360 ng
RT: 8.982 min Scan# 787
Delta R.T. -0.011 min
Lab File: BN037754.D
Acq: 17 Sep 2025 20:01

Tgt Ion: 82 Resp: 4878

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 82 | 100 | | |
| 128 | 41.5 | 38.3 | 57.5 |
| 54 | 53.3 | 41.4 | 62.2 |



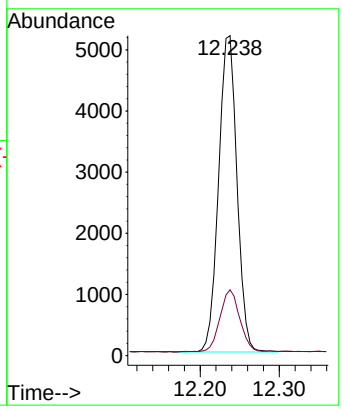


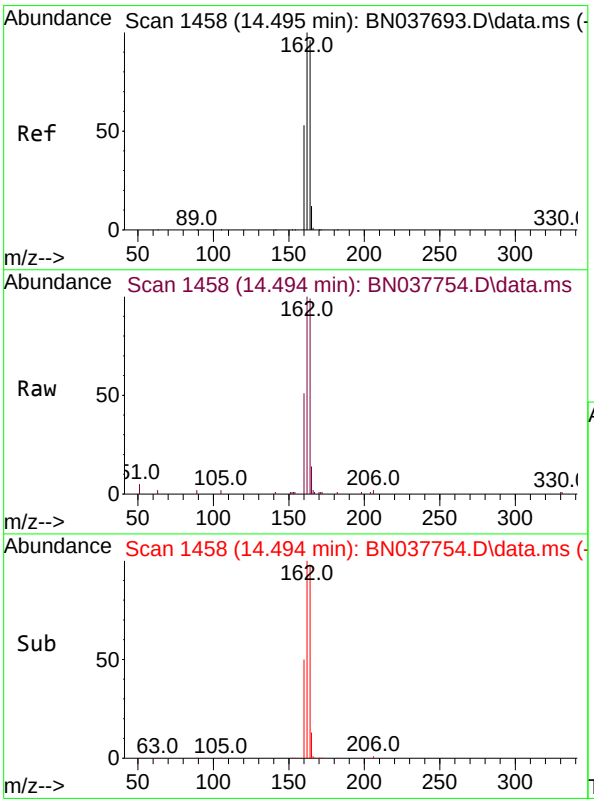

#11
2-Methylnaphthalene-d10
Concen: 0.338 ng
RT: 12.238 min Scan# 11
Delta R.T. -0.005 min
Lab File: BN037754.D
Acq: 17 Sep 2025 20:01

**Instrument :**
BNA_N
**ClientSampleId :**
RE122D1-20250909

Tgt Ion:152 Resp: 8309

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

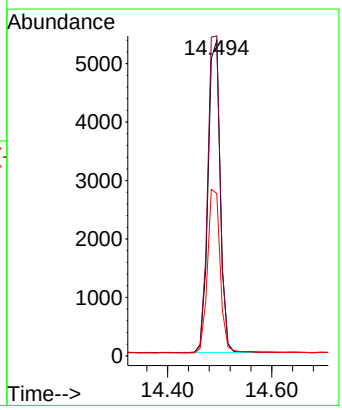


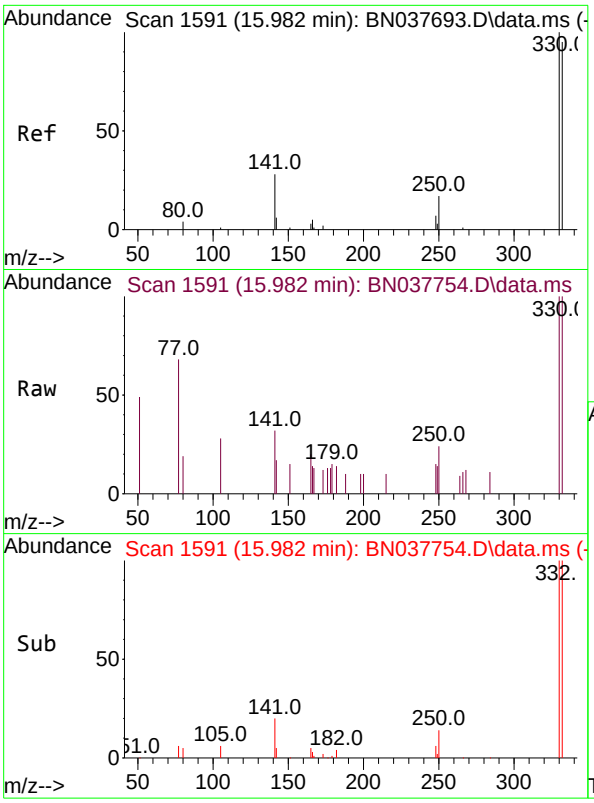




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.494 min Scan# 1458
Delta R.T. -0.000 min
Lab File: BN037754.D
Acq: 17 Sep 2025 20:01

Tgt Ion:164 Resp: 8723

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 164 | 100 | | |
| 162 | 101.5 | 83.1 | 124.7 |
| 160 | 51.5 | 44.3 | 66.5 |



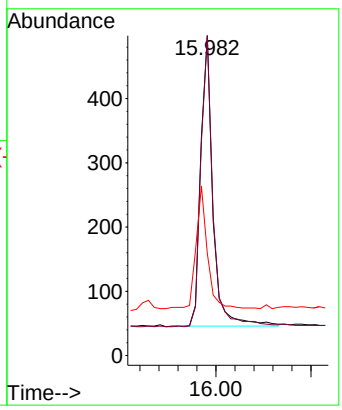


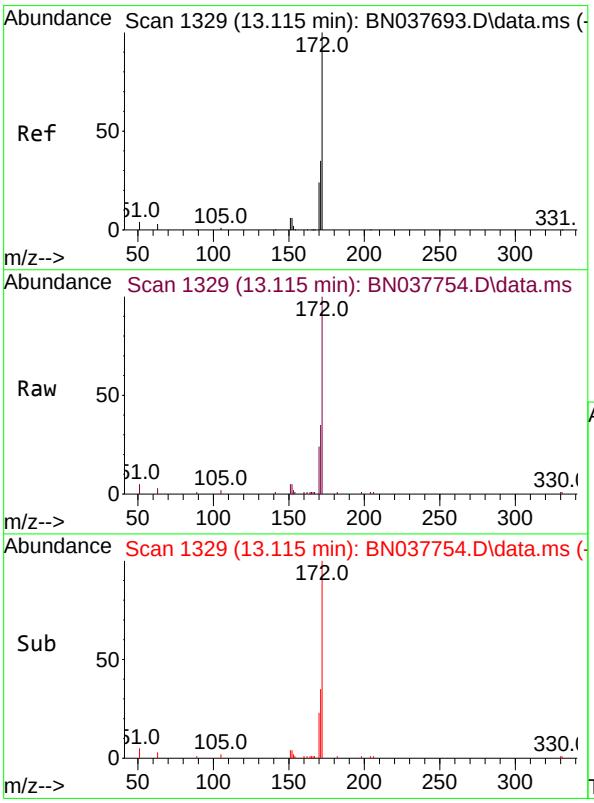

#14
2,4,6-Tribromophenol
Concen: 0.351 ng
RT: 15.982 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN037754.D
Acq: 17 Sep 2025 20:01

**Instrument :**
BNA_N
**ClientSampleId :**
RE122D1-20250909

Tgt Ion:330 Resp: 798

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 330 | 100 | | |
| 332 | 100.0 | 75.3 | 112.9 |
| 141 | 40.6 | 35.0 | 52.4 |

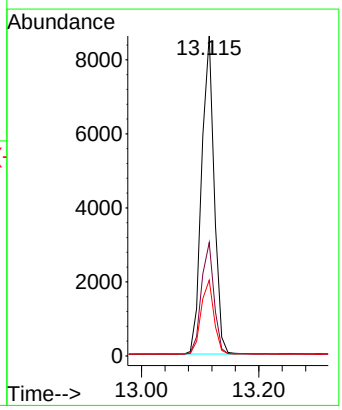


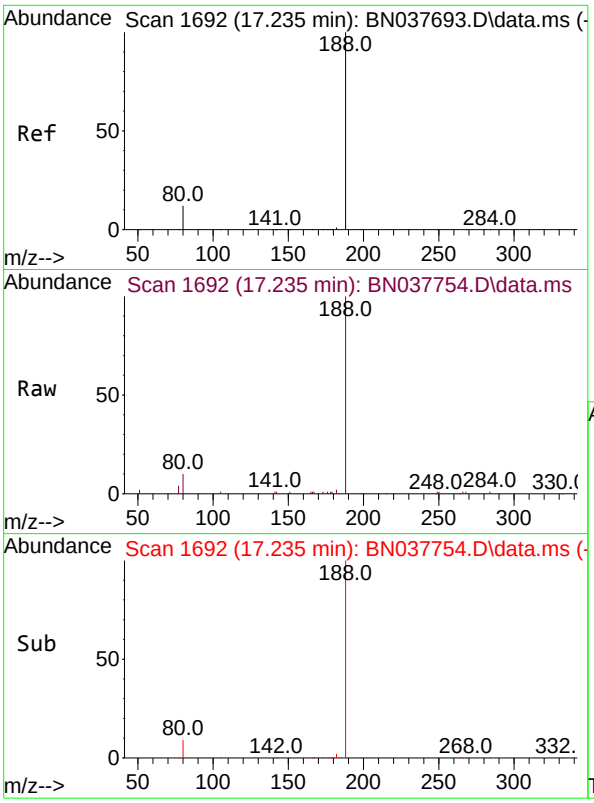




#15
2-Fluorobiphenyl
Concen: 0.349 ng
RT: 13.115 min Scan# 1329
Delta R.T. -0.000 min
Lab File: BN037754.D
Acq: 17 Sep 2025 20:01

Tgt Ion:172 Resp: 12743

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 172 | 100 | | |
| 171 | 35.4 | 28.6 | 43.0 |
| 170 | 23.7 | 19.8 | 29.8 |



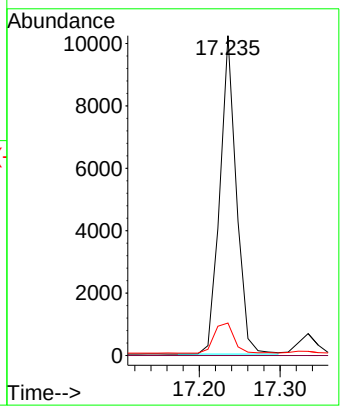


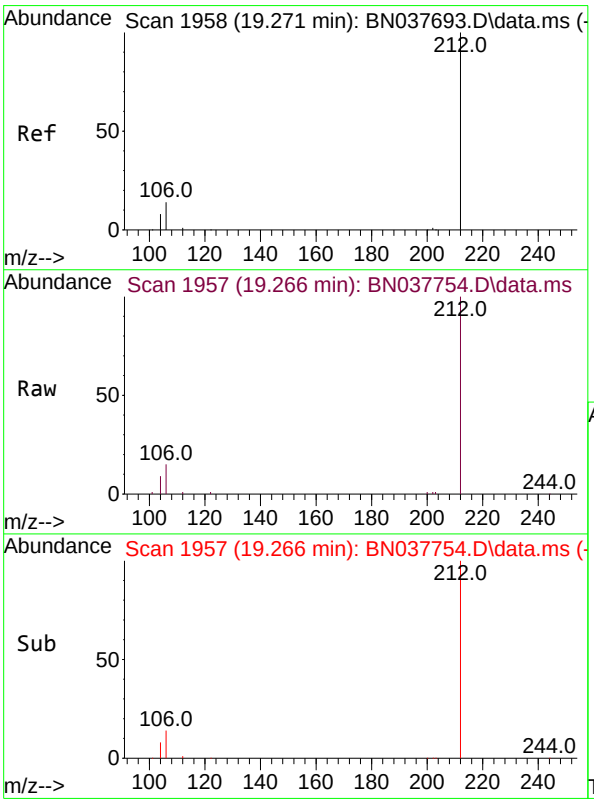

#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.235 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN037754.D
Acq: 17 Sep 2025 20:01

**Instrument :**
BNA_N
**ClientSampleId :**
RE122D1-20250909

Tgt Ion:188 Resp: 14502

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 188 | 100 | | |
| 94 | 0.0 | 0.0 | 0.0 |
| 80 | 10.2 | 10.6 | 15.8# |

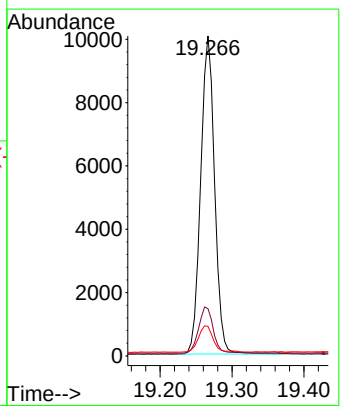


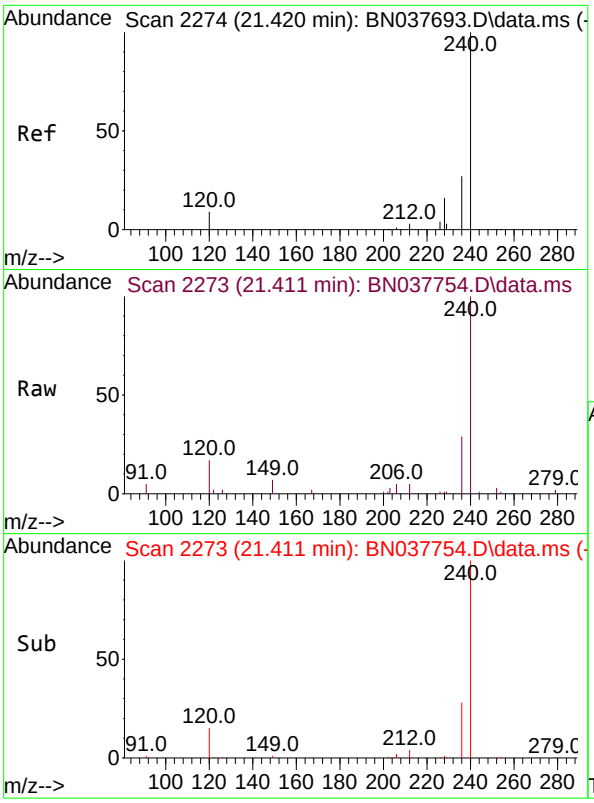




#27
Fluoranthene-d10
Concen: 0.372 ng
RT: 19.266 min Scan# 1957
Delta R.T. -0.005 min
Lab File: BN037754.D
Acq: 17 Sep 2025 20:01

Tgt Ion:212 Resp: 13539

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 212 | 100 | | |
| 106 | 15.2 | 12.2 | 18.2 |
| 104 | 8.6 | 6.9 | 10.3 |



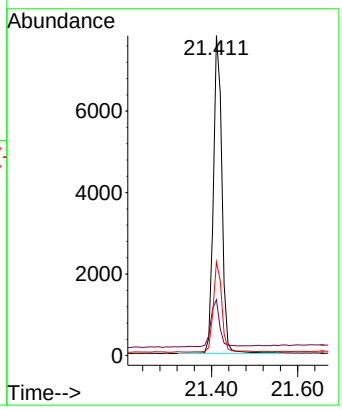


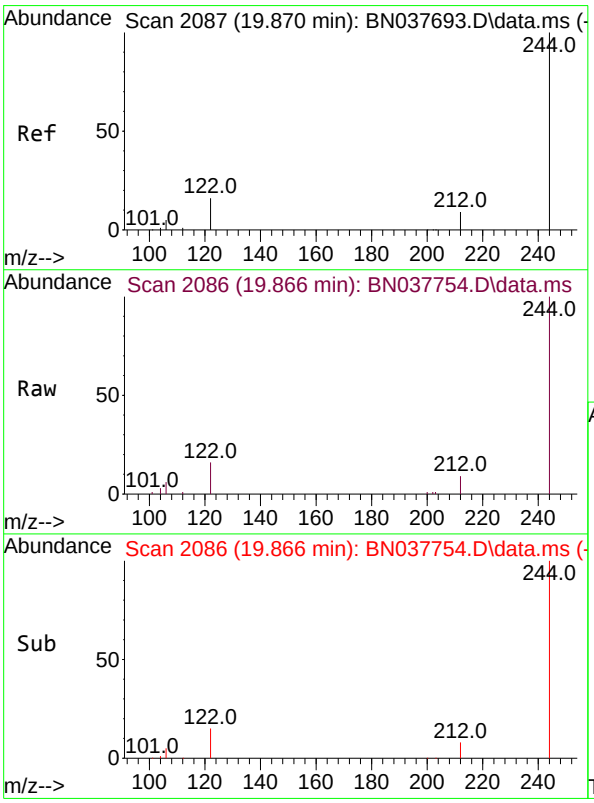

#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.411 min Scan# 2
Delta R.T. -0.009 min
Lab File: BN037754.D
Acq: 17 Sep 2025 20:01

**Instrument :**
BNA_N
**ClientSampleId :**
RE122D1-20250909

Tgt Ion:240 Resp: 10754

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 240 | 100 | | |
| 120 | 17.4 | 9.2 | 13.8# |
| 236 | 29.3 | 22.6 | 33.8 |

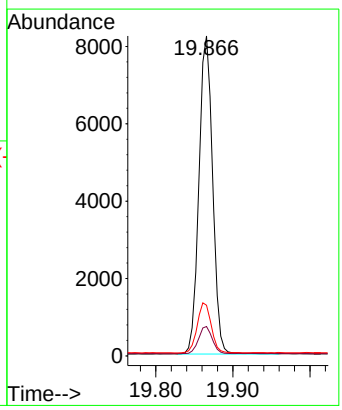


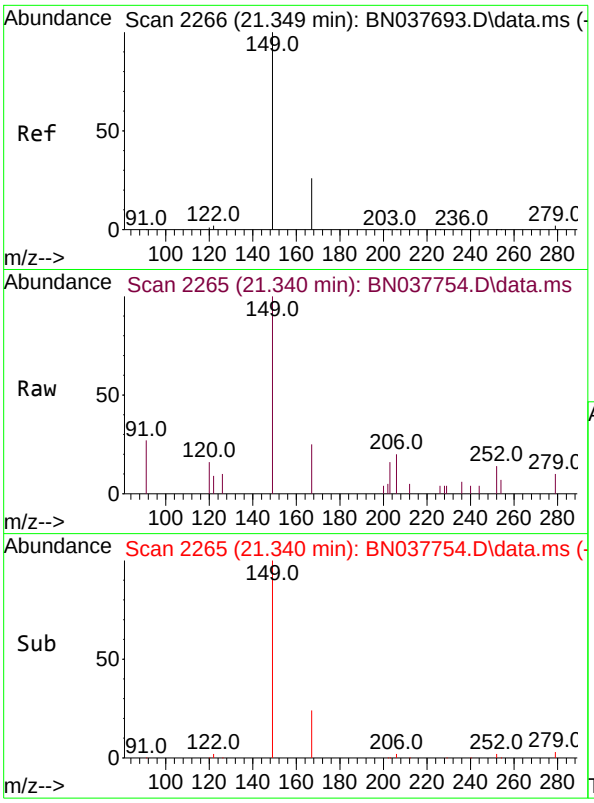




#31
Terphenyl-d14
Concen: 0.463 ng
RT: 19.866 min Scan# 2086
Delta R.T. -0.005 min
Lab File: BN037754.D
Acq: 17 Sep 2025 20:01

Tgt Ion:244 Resp: 10113

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 244 | 100 | | |
| 212 | 9.2 | 7.5 | 11.3 |
| 122 | 15.8 | 13.2 | 19.8 |



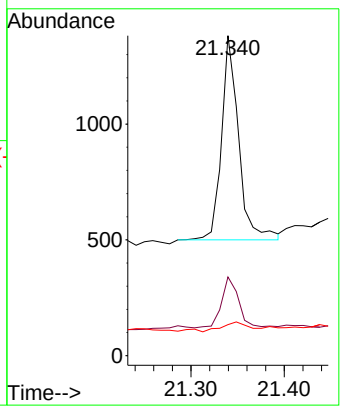


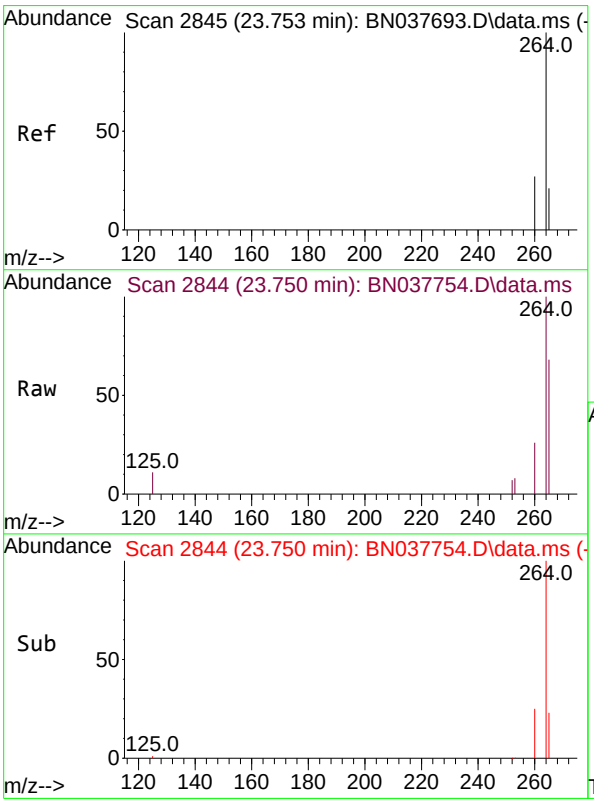

#34
Bis(2-ethylhexyl)phthalate
Concen: 0.101 ng
RT: 21.340 min Scan# 2
Delta R.T. -0.009 min
Lab File: BN037754.D
Acq: 17 Sep 2025 20:01

**Instrument :**
BNA_N
**ClientSampleId :**
RE122D1-20250909

Tgt Ion:149 Resp: 1128

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 149 | 100 | | |
| 167 | 25.4 | 20.8 | 31.2 |
| 279 | 7.7 | 3.3 | 4.9# |

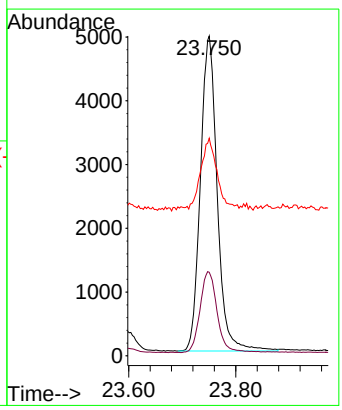



#35
Perylene-d12
Concen: 0.400 ng
RT: 23.750 min Scan# 2844
Delta R.T. -0.003 min
Lab File: BN037754.D
Acq: 17 Sep 2025 20:01

Tgt Ion:264 Resp: 10771

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 264 | 100 | | |
| 260 | 26.1 | 21.8 | 32.8 |
| 265 | 68.0 | 39.4 | 59.2# |



Raw Data: **BN037761.D**

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

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | AECOM Technical Services, Inc. | Date Collected: | 09/09/25 |
| Project: | NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258 | Date Received: | 09/12/25 |
| Client Sample ID: | MW202D-20250909 | SDG No.: | Q3095 |
| Lab Sample ID: | Q3095-12 | Matrix: | Water |
| Analytical Method: | SW8270ESIM | % Solid: | 0 |
| Sample Wt/Vol: | 1000 Units: mL | Final Vol: | 1000 uL |
| Soil Aliquot Vol: | uL | Test: | SVOC-SIMGroup1 |
| Extraction Type : | Decanted : N | Level : | LOW |
| Injection Volume : | GPC Factor : 1.0 | GPC Cleanup : | N PH : |
| Prep Method : | | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| BN037761.D | 1 | 09/15/25 10:15 | 09/18/25 03:58 | PB169692 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOD | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | | |
| 123-91-1 | 1,4-Dioxane | 0.20 | U | 0.070 | 0.20 | 0.20 | ug/L |
| **SURROGATES** | | | | | | | |
| 7297-45-2 | 2-Methylnaphthalene-d10 | 0.31 | | 30 - 150 | | 77% | SPK: 0.4 |
| 93951-69-0 | Fluoranthene-d10 | 0.38 | | 30 - 150 | | 94% | SPK: 0.4 |
| 4165-60-0 | Nitrobenzene-d5 | 0.34 | | 55 - 111 | | 84% | SPK: 0.4 |
| 321-60-8 | 2-Fluorobiphenyl | 0.35 | | 53 - 106 | | 87% | SPK: 0.4 |
| 1718-51-0 | Terphenyl-d14 | 0.40 | | 58 - 132 | | 100% | SPK: 0.4 |
| **INTERNAL STANDARDS** | | | | | | | |
| 3855-82-1 | 1,4-Dichlorobenzene-d4 | 7230 | 7.833 | | | | |
| 1146-65-2 | Naphthalene-d8 | 19400 | 10.637 | | | | |
| 15067-26-2 | Acenaphthene-d10 | 8610 | 14.484 | | | | |
| 1517-22-2 | Phenanthrene-d10 | 15400 | 17.235 | | | | |
| 1719-03-5 | Chrysene-d12 | 12900 | 21.411 | | | | |
| 1520-96-3 | Perylene-d12 | 13100 | 23.741 | | | | |

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\BN091725\
Data File : BN037761.D
Acq On : 18 Sep 2025 03:58
Operator : RC/JU
Sample : Q3095-12
Misc :
ALS Vial : 22 Sample Multiplier: 1

**Instrument :**
BNA_N
**ClientSampleId :**
MW202D-20250909

Quant Time: Sep 18 05:28:59 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN091125.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Sep 11 14:20:01 2025
Response via : Initial Calibration

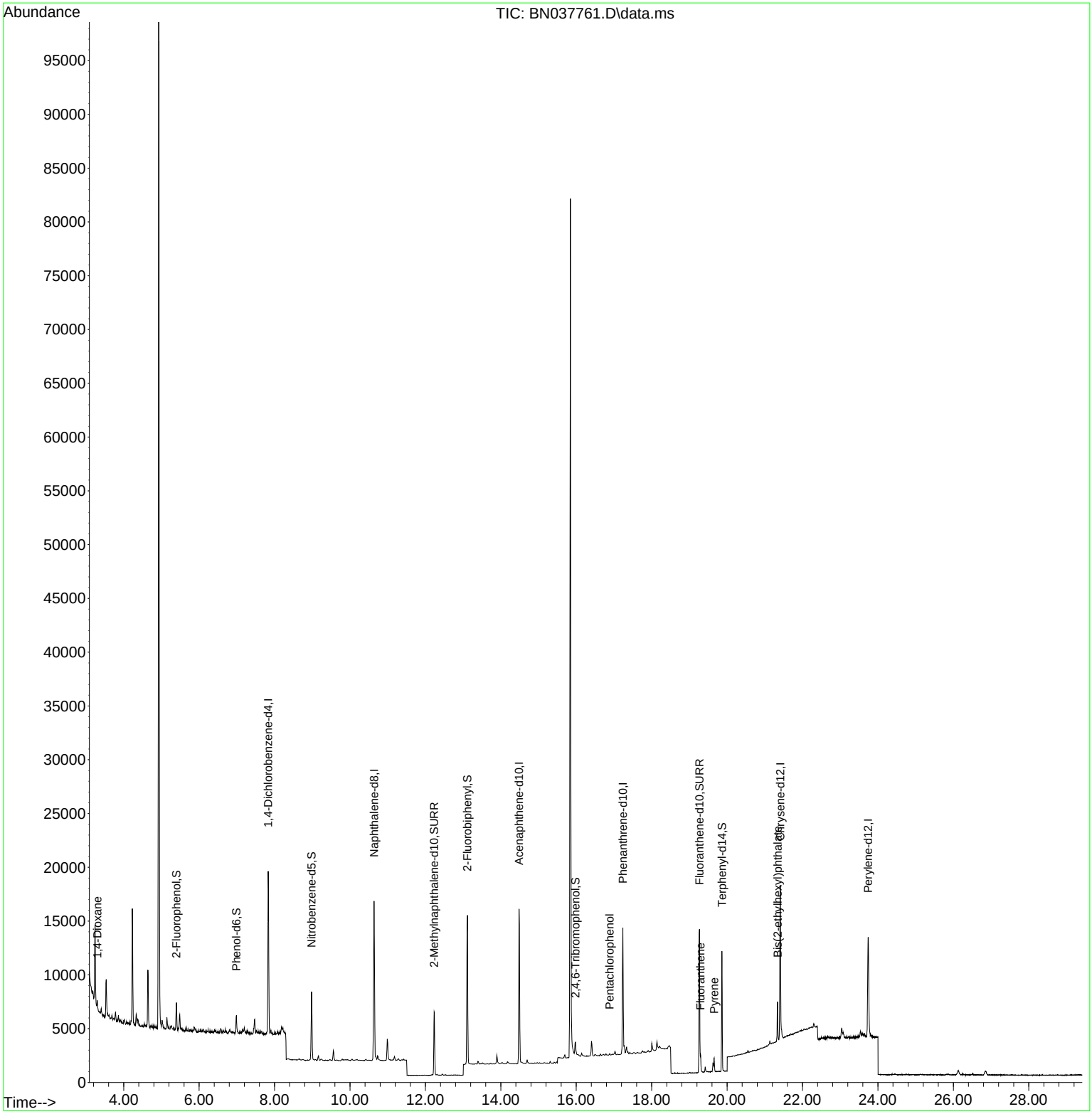
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) 1,4-Dichlorobenzene-d4 | 7.833 | 152 | 7232 | 0.400 | ng | 0.00 |
| 7) Naphthalene-d8 | 10.637 | 136 | 19420 | 0.400 | ng | -0.01 |
| 13) Acenaphthene-d10 | 14.484 | 164 | 8613 | 0.400 | ng | -0.01 |
| 19) Phenanthrene-d10 | 17.235 | 188 | 15444 | 0.400 | ng | # 0.00 |
| 29) Chrysene-d12 | 21.411 | 240 | 12865 | 0.400 | ng | 0.00 |
| 35) Perylene-d12 | 23.741 | 264 | 13080 | 0.400 | ng | #-0.01 |
| System Monitoring Compounds | | | | | | |
| 4) 2-Fluorophenol | 5.399 | 112 | 2030 | 0.122 | ng | 0.00 |
| 5) Phenol-d6 | 6.988 | 99 | 1452 | 0.067 | ng | 0.00 |
| 8) Nitrobenzene-d5 | 8.982 | 82 | 4795 | 0.338 | ng | -0.01 |
| 11) 2-Methylnaphthalene-d10 | 12.232 | 152 | 7932 | 0.308 | ng | -0.01 |
| 14) 2,4,6-Tribromophenol | 15.982 | 330 | 820 | 0.365 | ng | 0.00 |
| 15) 2-Fluorobiphenyl | 13.115 | 172 | 12551 | 0.348 | ng | 0.00 |
| 27) Fluoranthene-d10 | 19.266 | 212 | 14609 | 0.377 | ng | 0.00 |
| 31) Terphenyl-d14 | 19.861 | 244 | 10464 | 0.401 | ng | 0.00 |
| Target Compounds | | | | | | Qvalue |
| 2) 1,4-Dioxane | 3.304 | 88 | 413 | 0.055 | ng | # 82 |
| 24) Pentachlorophenol | 16.888 | 266 | 127 | 0.038 | ng | # 83 |
| 28) Fluoranthene | 19.294 | 202 | 1128 | 0.021 | ng | # 81 |
| 30) Pyrene | 19.657 | 202 | 1175 | 0.023 | ng | # 94 |
| 34) Bis(2-ethylhexyl)phtha... | 21.339 | 149 | 3713 | 0.279 | ng | 99 |

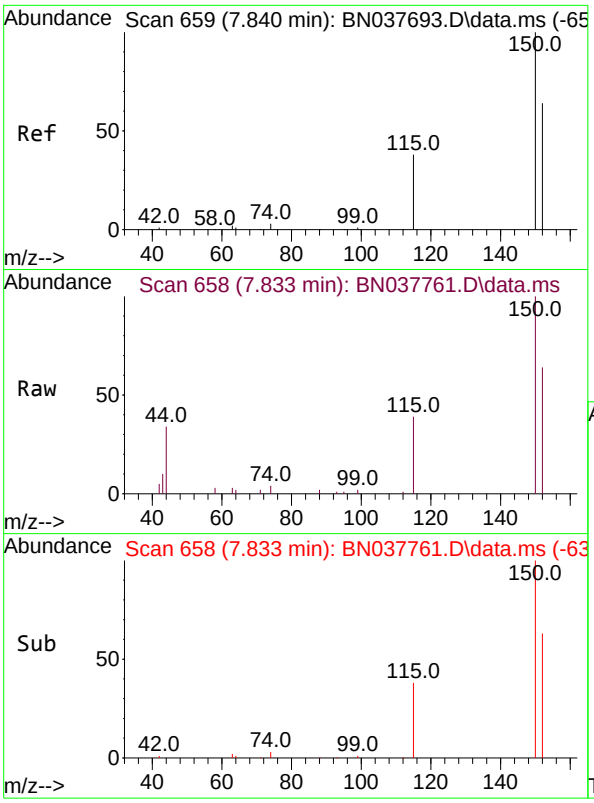
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN091725\
Data File : BN037761.D
Acq On : 18 Sep 2025 03:58
Operator : RC/JU
Sample : Q3095-12
Misc :
ALS Vial : 22 Sample Multiplier: 1

**Instrument :**
BNA_N
**ClientSampleId :**
MW202D-20250909

Quant Time: Sep 18 05:28:59 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN091125.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Sep 11 14:20:01 2025
Response via : Initial Calibration



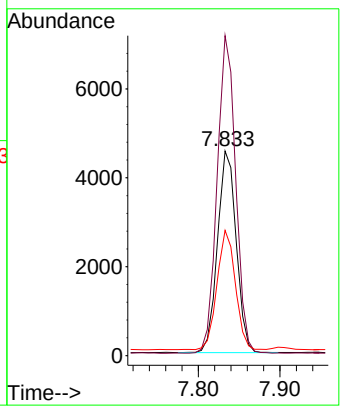


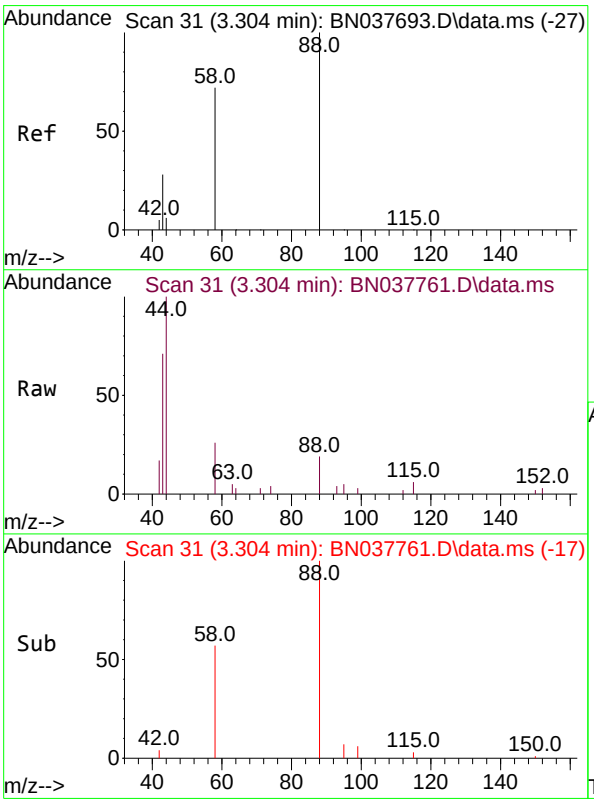

#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.833 min Scan# 6
Delta R.T. -0.007 min
Lab File: BN037761.D
Acq: 18 Sep 2025 03:58

**Instrument :**
BNA_N
**ClientSampleId :**
MW202D-20250909

Tgt Ion:152 Resp: 7232

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 150 | 156.5 | 124.5 | 186.7 |
| 115 | 61.2 | 49.2 | 73.8 |

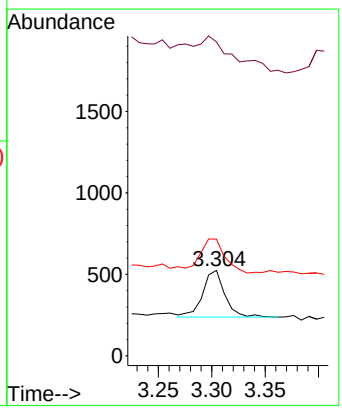


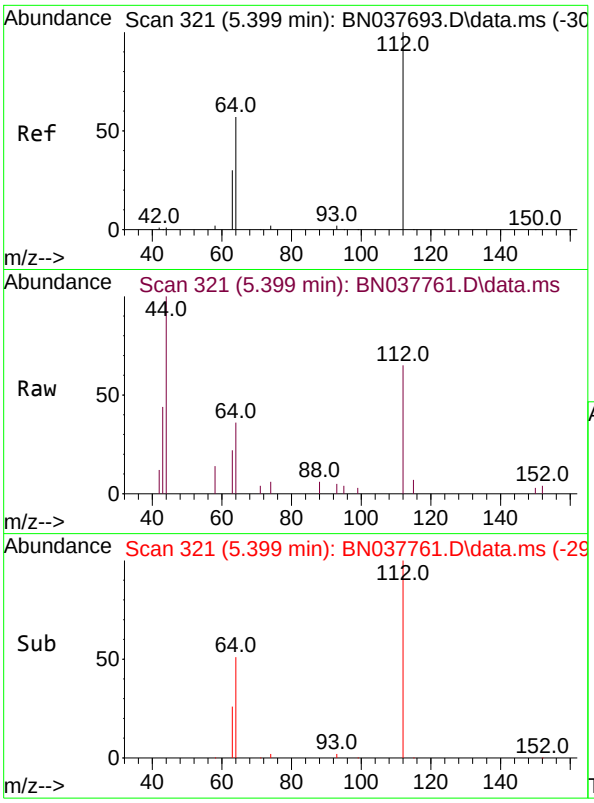




#2
1,4-Dioxane
Concen: 0.055 ng
RT: 3.304 min Scan# 31
Delta R.T. -0.000 min
Lab File: BN037761.D
Acq: 18 Sep 2025 03:58

Tgt Ion: 88 Resp: 413

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 88 | 100 | | |
| 43 | 0.0 | 26.8 | 40.2# |
| 58 | 77.0 | 61.9 | 92.9 |



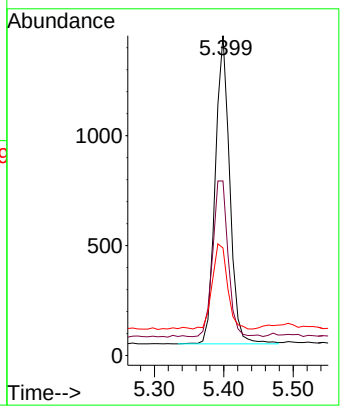


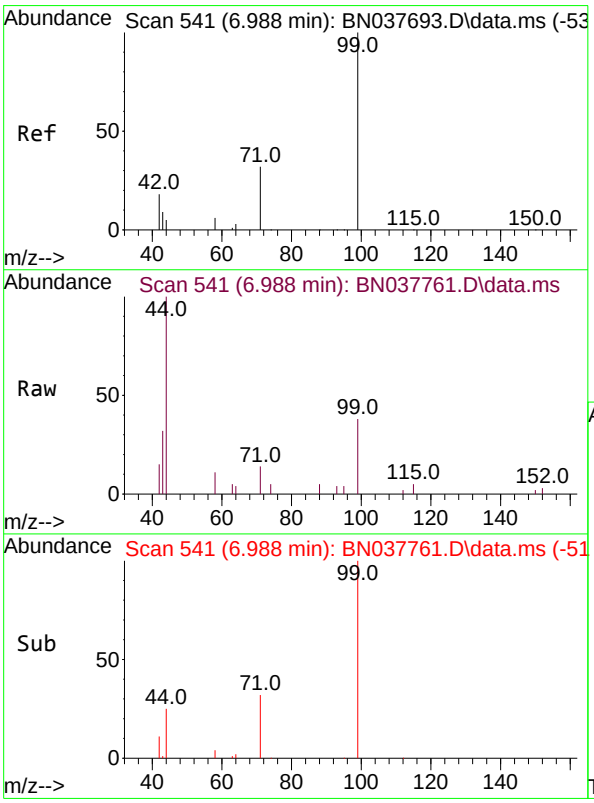

#4
2-Fluorophenol
Concen: 0.122 ng
RT: 5.399 min Scan# 3
Delta R.T. -0.000 min
Lab File: BN037761.D
Acq: 18 Sep 2025 03:58

**Instrument :**
BNA_N
**ClientSampleId :**
MW202D-20250909

Tgt Ion:112 Resp: 2030

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 112 | 100 | | |
| 64 | 53.7 | 44.9 | 67.3 |
| 63 | 28.7 | 24.7 | 37.1 |

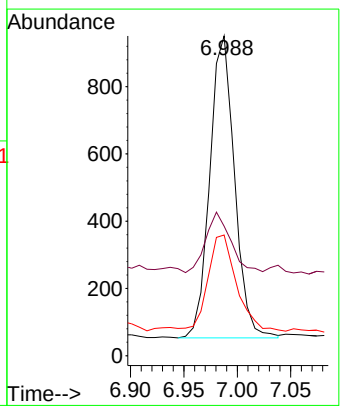


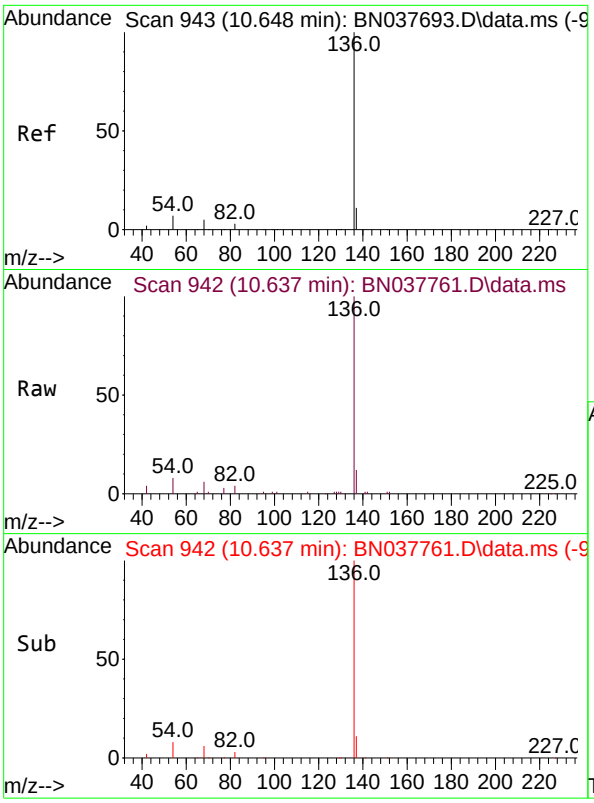




#5
Phenol-d6
Concen: 0.067 ng
RT: 6.988 min Scan# 541
Delta R.T. -0.000 min
Lab File: BN037761.D
Acq: 18 Sep 2025 03:58

Tgt Ion: 99 Resp: 1452

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 99 | 100 | | |
| 42 | 19.9 | 16.6 | 24.8 |
| 71 | 38.4 | 26.7 | 40.1 |



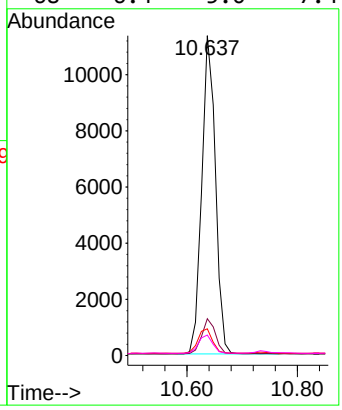


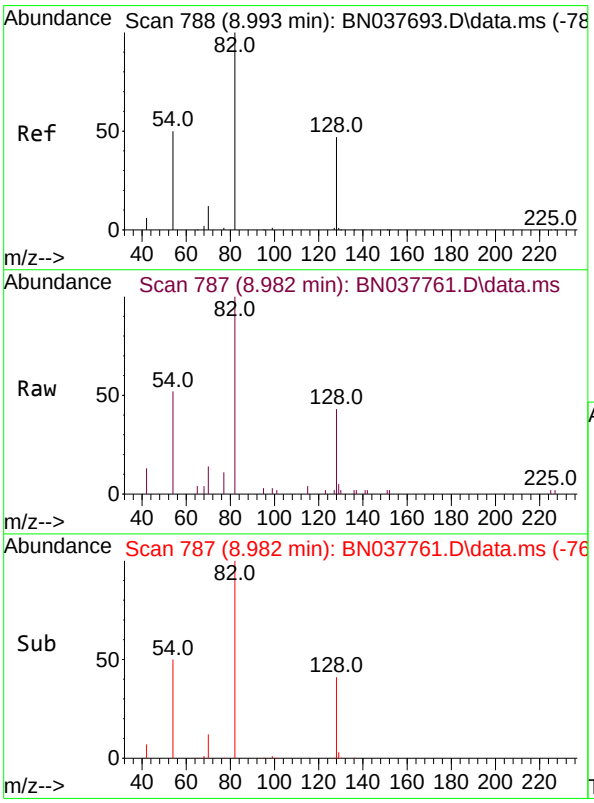

#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.637 min Scan# 94
Delta R.T. -0.011 min
Lab File: BN037761.D
Acq: 18 Sep 2025 03:58

**Instrument :**
BNA_N
**ClientSampleId :**
MW202D-20250909

Tgt Ion:136 Resp: 19420

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 136 | 100 | | |
| 137 | 11.5 | 9.1 | 13.7 |
| 54 | 8.4 | 6.3 | 9.5 |
| 68 | 6.4 | 5.0 | 7.4 |

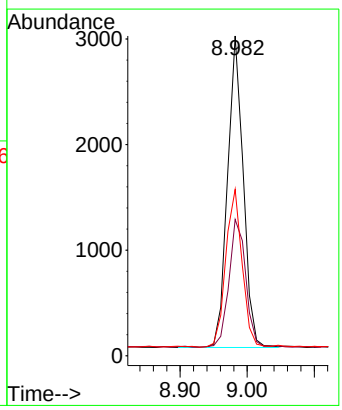


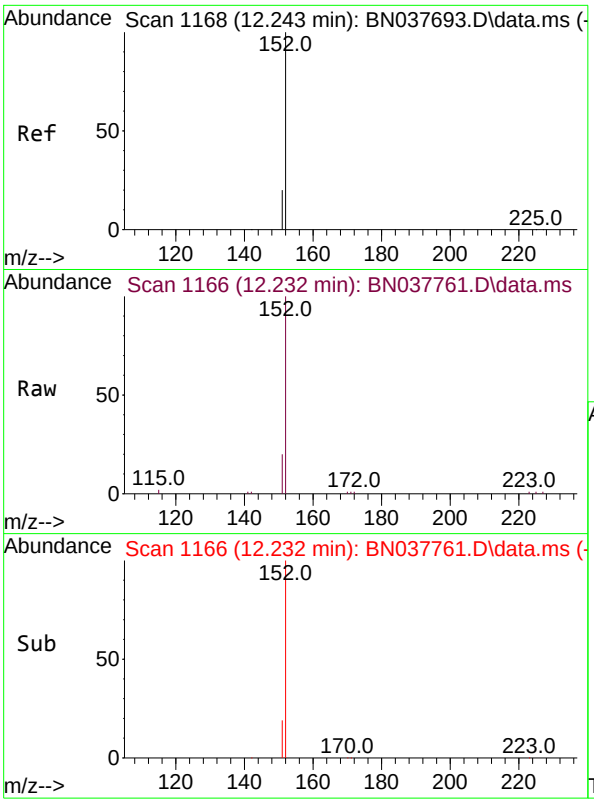




#8
Nitrobenzene-d5
Concen: 0.338 ng
RT: 8.982 min Scan# 787
Delta R.T. -0.011 min
Lab File: BN037761.D
Acq: 18 Sep 2025 03:58

Tgt Ion: 82 Resp: 4795

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 82 | 100 | | |
| 128 | 42.6 | 38.3 | 57.5 |
| 54 | 52.0 | 41.4 | 62.2 |



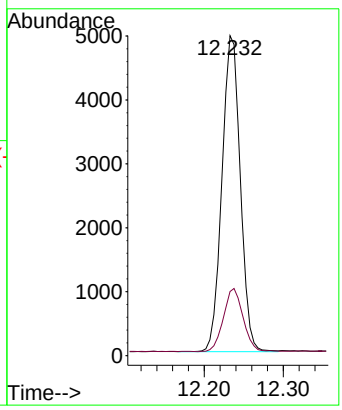


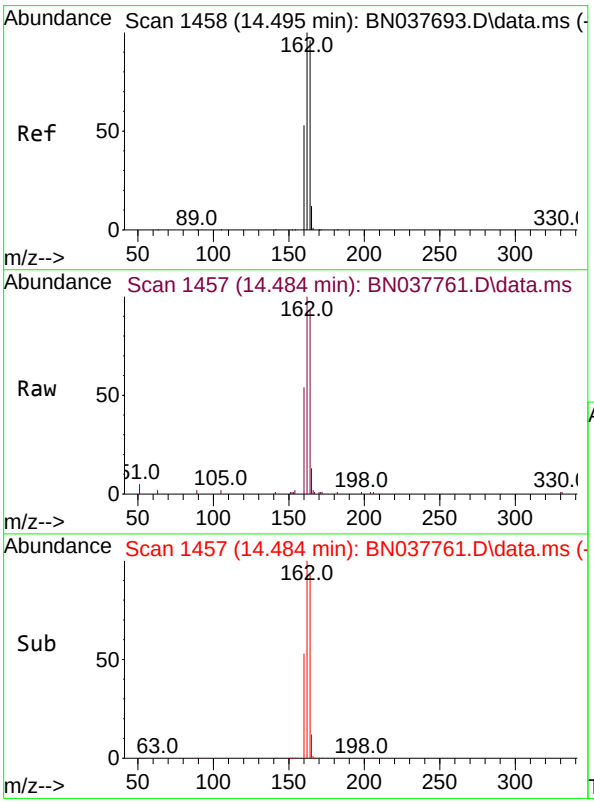

#11
2-Methylnaphthalene-d10
Concen: 0.308 ng
RT: 12.232 min Scan# 11
Delta R.T. -0.010 min
Lab File: BN037761.D
Acq: 18 Sep 2025 03:58

**Instrument :**
BNA_N
**ClientSampleId :**
MW202D-20250909

Tgt Ion:152 Resp: 7932

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 151 | 21.5 | 17.0 | 25.6 |

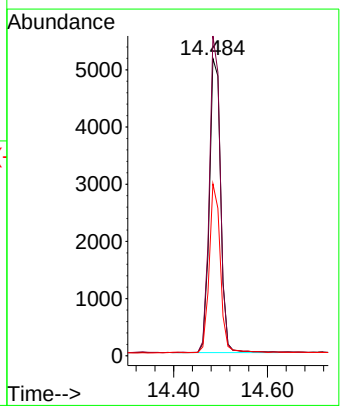


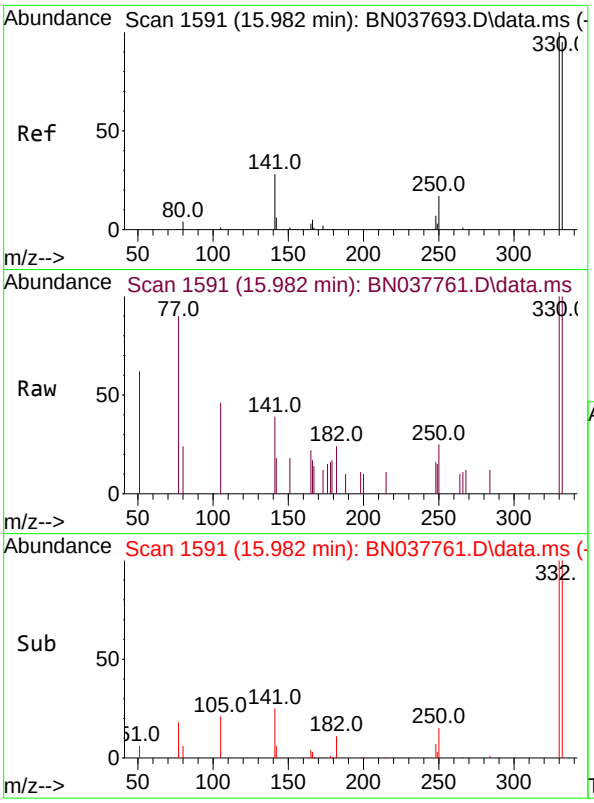




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.484 min Scan# 1457
Delta R.T. -0.011 min
Lab File: BN037761.D
Acq: 18 Sep 2025 03:58

Tgt Ion:164 Resp: 8613

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 164 | 100 | | |
| 162 | 107.6 | 83.1 | 124.7 |
| 160 | 57.9 | 44.3 | 66.5 |



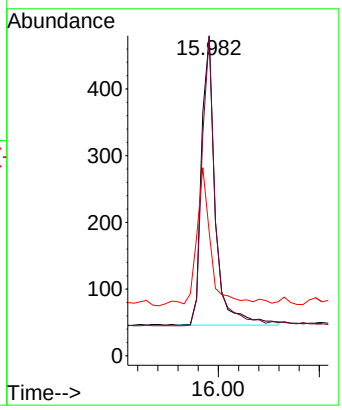


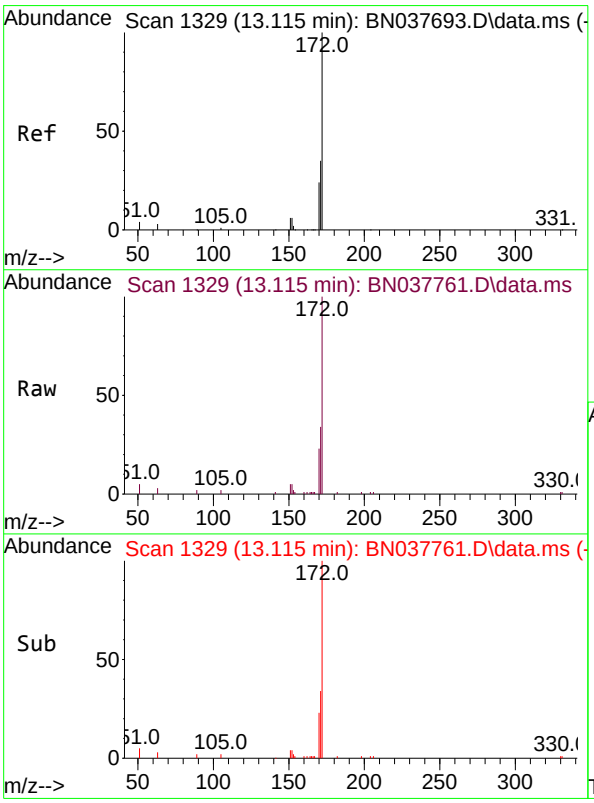

#14
2,4,6-Tribromophenol
Concen: 0.365 ng
RT: 15.982 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN037761.D
Acq: 18 Sep 2025 03:58

**Instrument :**
BNA_N
**ClientSampleId :**
MW202D-20250909

Tgt Ion:330 Resp: 820

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 330 | 100 | | |
| 332 | 97.0 | 75.3 | 112.9 |
| 141 | 49.9 | 35.0 | 52.4 |

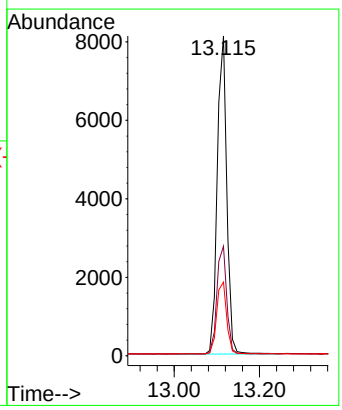


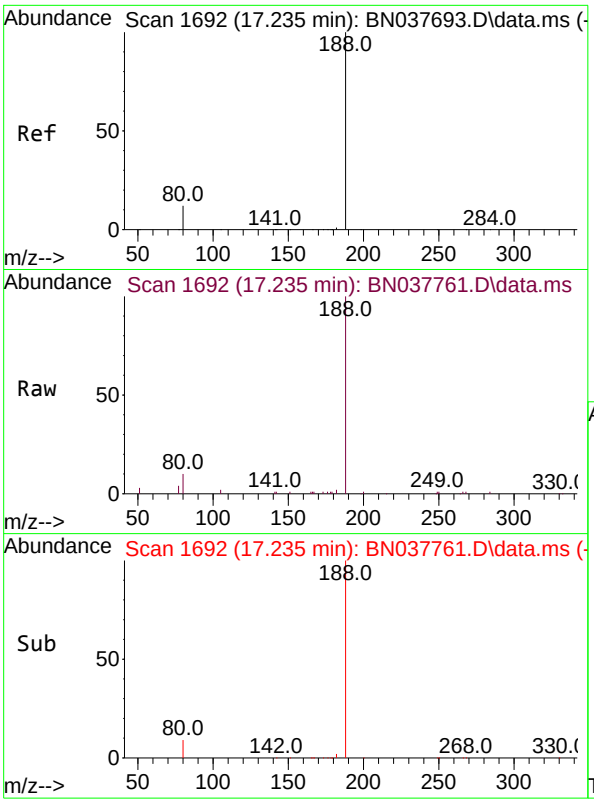




#15
2-Fluorobiphenyl
Concen: 0.348 ng
RT: 13.115 min Scan# 1329
Delta R.T. -0.000 min
Lab File: BN037761.D
Acq: 18 Sep 2025 03:58

Tgt Ion:172 Resp: 12551

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 172 | 100 | | |
| 171 | 34.3 | 28.6 | 43.0 |
| 170 | 23.1 | 19.8 | 29.8 |



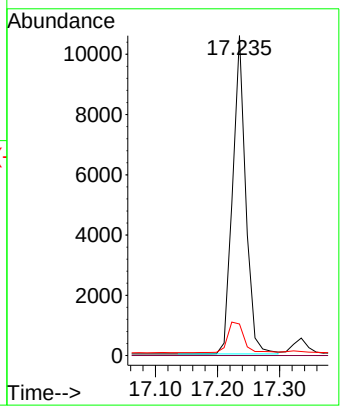


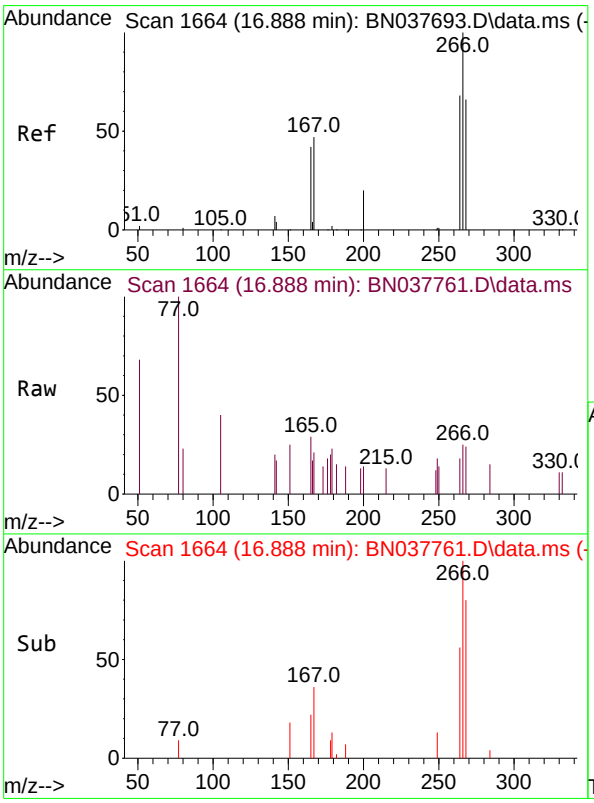

#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.235 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN037761.D
Acq: 18 Sep 2025 03:58

**Instrument :**
BNA_N
**ClientSampleId :**
MW202D-20250909

Tgt Ion:188 Resp: 15444

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 188 | 100 | | |
| 94 | 0.0 | 0.0 | 0.0 |
| 80 | 9.8 | 10.6 | 15.8# |

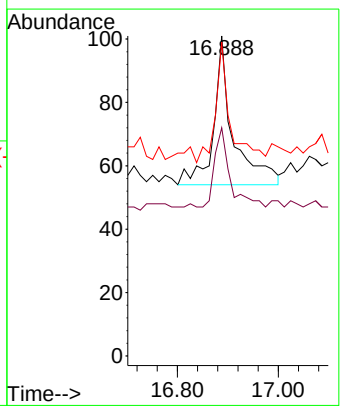


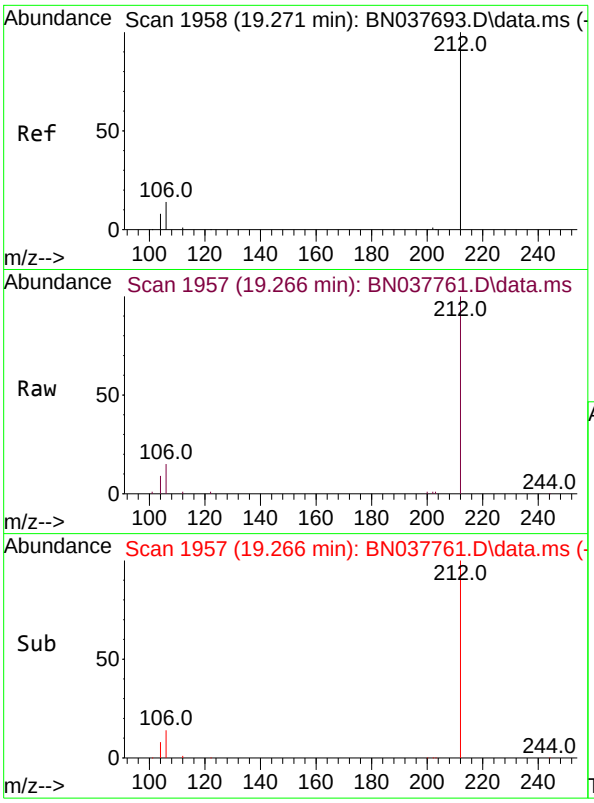




#24
Pentachlorophenol
Concen: 0.038 ng
RT: 16.888 min Scan# 1664
Delta R.T. -0.000 min
Lab File: BN037761.D
Acq: 18 Sep 2025 03:58

Tgt Ion:266 Resp: 127

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 266 | 100 | | |
| 264 | 44.1 | 51.6 | 77.4# |
| 268 | 60.6 | 53.2 | 79.8 |



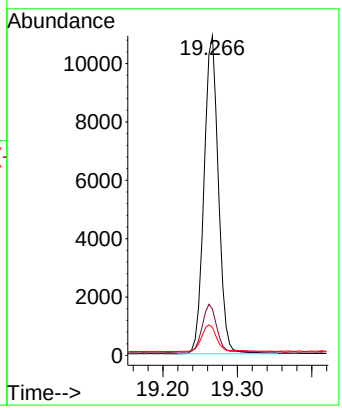


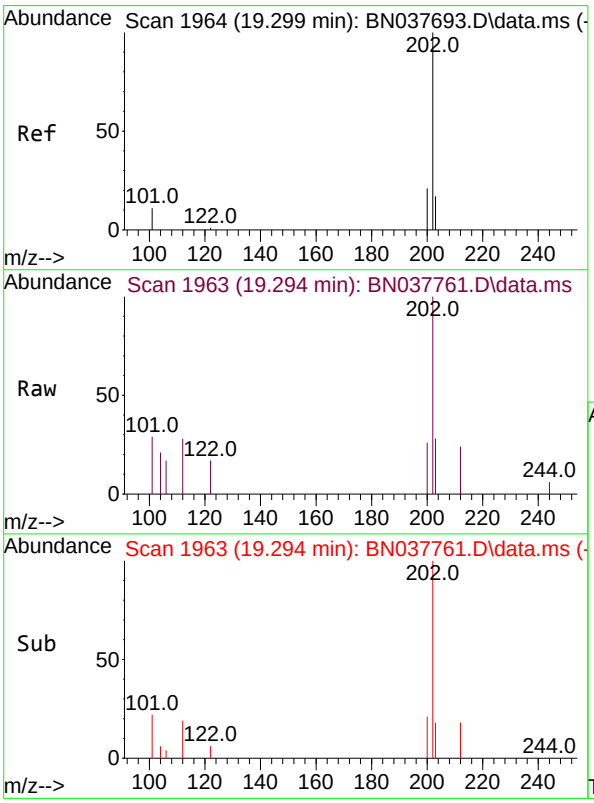

#27
Fluoranthene-d10
Concen: 0.377 ng
RT: 19.266 min Scan# 19
Delta R.T. -0.005 min
Lab File: BN037761.D
Acq: 18 Sep 2025 03:58

**Instrument :**
BNA_N
**ClientSampleId :**
MW202D-20250909

Tgt Ion:212 Resp: 14609

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 212 | 100 | | |
| 106 | 15.4 | 12.2 | 18.2 |
| 104 | 8.7 | 6.9 | 10.3 |

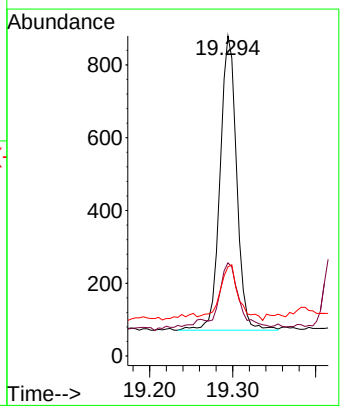


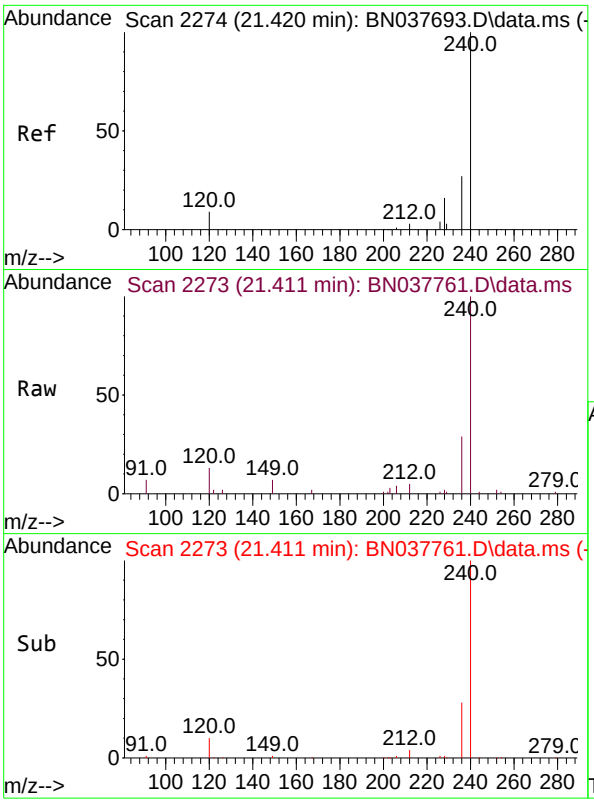




#28
Fluoranthene
Concen: 0.021 ng
RT: 19.294 min Scan# 1963
Delta R.T. -0.005 min
Lab File: BN037761.D
Acq: 18 Sep 2025 03:58

Tgt Ion:202 Resp: 1128

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 202 | 100 | | |
| 101 | 24.4 | 9.3 | 13.9# |
| 203 | 21.1 | 13.7 | 20.5# |



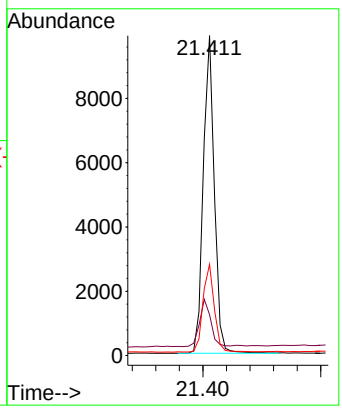


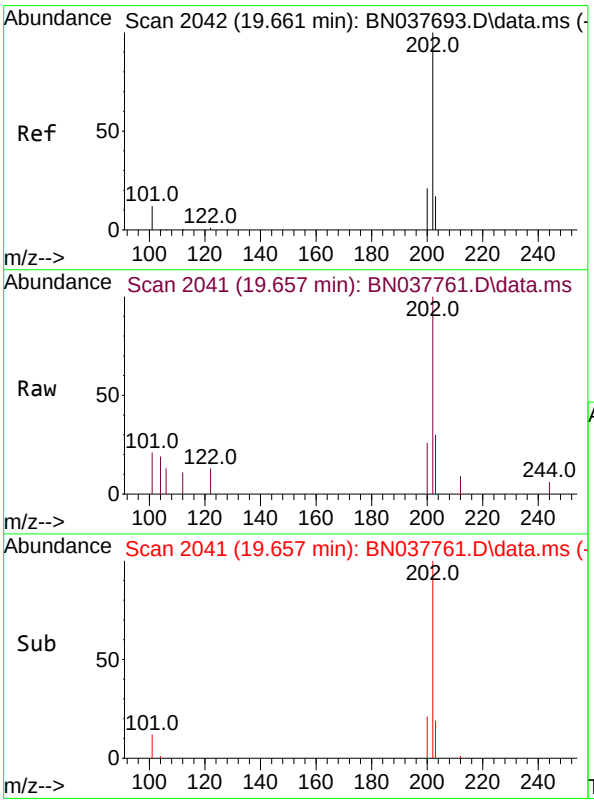

#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.411 min Scan# 21
Delta R.T. -0.009 min
Lab File: BN037761.D
Acq: 18 Sep 2025 03:58

**Instrument :**
BNA_N
**ClientSampleId :**
MW202D-20250909

Tgt Ion:240 Resp: 12865

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 240 | 100 | | |
| 120 | 12.8 | 9.2 | 13.8 |
| 236 | 28.5 | 22.6 | 33.8 |

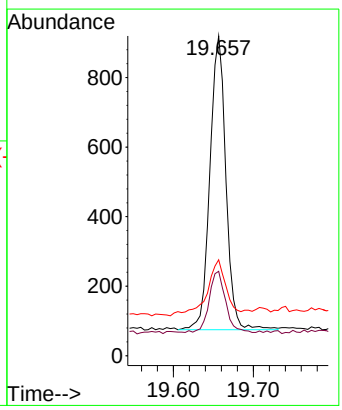


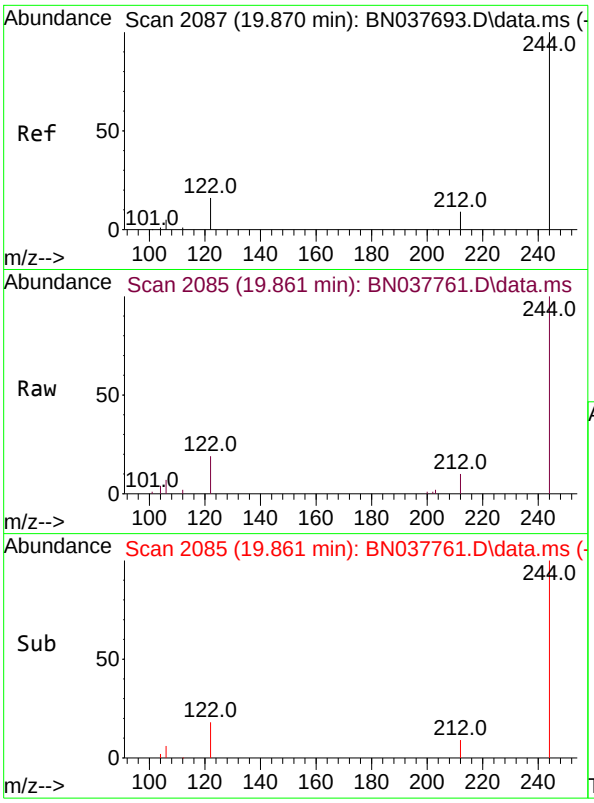




#30
Pyrene
Concen: 0.023 ng
RT: 19.657 min Scan# 2041
Delta R.T. -0.005 min
Lab File: BN037761.D
Acq: 18 Sep 2025 03:58

Tgt Ion:202 Resp: 1175

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 202 | 100 | | |
| 200 | 21.7 | 16.8 | 25.2 |
| 203 | 22.8 | 14.3 | 21.5# |



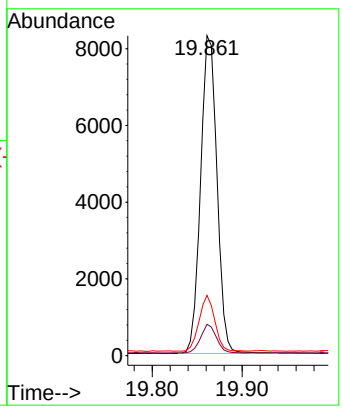


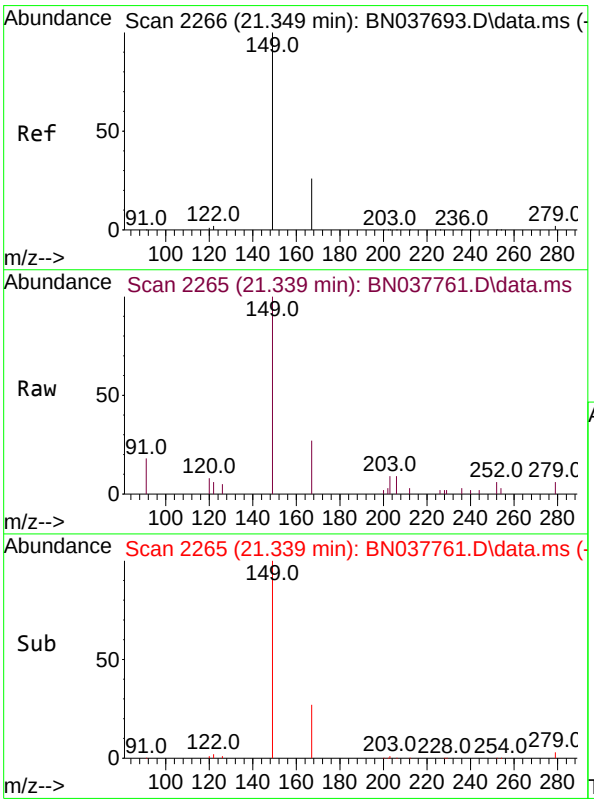

#31
Terphenyl-d14
Concen: 0.401 ng
RT: 19.861 min Scan# 20
Delta R.T. -0.009 min
Lab File: BN037761.D
Acq: 18 Sep 2025 03:58

**Instrument :**
BNA_N
**ClientSampleId :**
MW202D-20250909

Tgt Ion:244 Resp: 10464

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 244 | 100 | | |
| 212 | 9.8 | 7.5 | 11.3 |
| 122 | 18.8 | 13.2 | 19.8 |

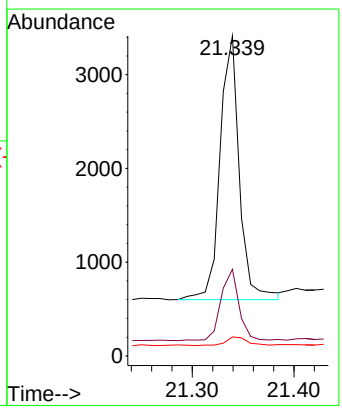


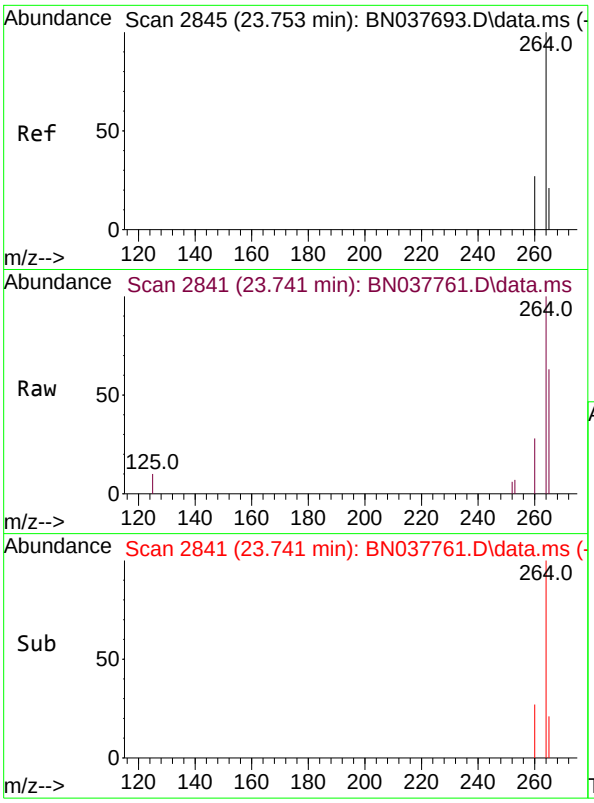




#34
Bis(2-ethylhexyl)phthalate
Concen: 0.279 ng
RT: 21.339 min Scan# 2265
Delta R.T. -0.009 min
Lab File: BN037761.D
Acq: 18 Sep 2025 03:58

Tgt Ion:149 Resp: 3713

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 149 | 100 | | |
| 167 | 25.3 | 20.8 | 31.2 |
| 279 | 3.7 | 3.3 | 4.9 |



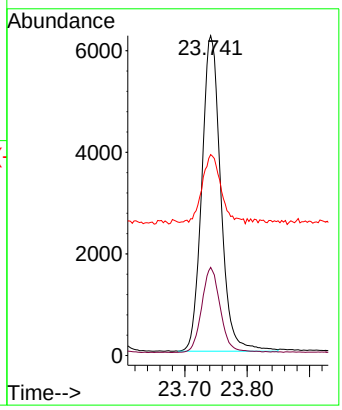



#35
Perylene-d12
Concen: 0.400 ng
RT: 23.741 min Scan# 2
Delta R.T. -0.012 min
Lab File: BN037761.D
Acq: 18 Sep 2025 03:58

**Instrument :**
BNA_N
**ClientSampleId :**
MW202D-20250909

Tgt Ion:264 Resp: 13080

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 264 | 100 | | |
| 260 | 27.6 | 21.8 | 32.8 |
| 265 | 62.8 | 39.4 | 59.2# |



Raw Data: **BN037755.D**

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

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | AECOM Technical Services, Inc. | Date Collected: | 09/09/25 |
| Project: | NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258 | Date Received: | 09/12/25 |
| Client Sample ID: | MW178I1-20250909 | SDG No.: | Q3095 |
| Lab Sample ID: | Q3095-13 | Matrix: | Water |
| Analytical Method: | SW8270ESIM | % Solid: | 0 |
| Sample Wt/Vol: | 1000 Units: mL | Final Vol: | 1000 uL |
| Soil Aliquot Vol: | uL | Test: | SVOC-SIMGroup1 |
| Extraction Type : | Decanted : N | Level : | LOW |
| Injection Volume : | GPC Factor : 1.0 | GPC Cleanup : | N PH : |
| Prep Method : | | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| BN037755.D | 1 | 09/15/25 10:15 | 09/17/25 20:37 | PB169692 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOD | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | | |
| 123-91-1 | 1,4-Dioxane | 0.66 | | 0.070 | 0.20 | 0.20 | ug/L |
| **SURROGATES** | | | | | | | |
| 7297-45-2 | 2-Methylnaphthalene-d10 | 0.29 | | 30 - 150 | | 73% | SPK: 0.4 |
| 93951-69-0 | Fluoranthene-d10 | 0.36 | | 30 - 150 | | 91% | SPK: 0.4 |
| 4165-60-0 | Nitrobenzene-d5 | 0.31 | | 55 - 111 | | 78% | SPK: 0.4 |
| 321-60-8 | 2-Fluorobiphenyl | 0.32 | | 53 - 106 | | 80% | SPK: 0.4 |
| 1718-51-0 | Terphenyl-d14 | 0.38 | | 58 - 132 | | 95% | SPK: 0.4 |
| **INTERNAL STANDARDS** | | | | | | | |
| 3855-82-1 | 1,4-Dichlorobenzene-d4 | 6480 | 7.833 | | | | |
| 1146-65-2 | Naphthalene-d8 | 17500 | 10.637 | | | | |
| 15067-26-2 | Acenaphthene-d10 | 7820 | 14.494 | | | | |
| 1517-22-2 | Phenanthrene-d10 | 14500 | 17.235 | | | | |
| 1719-03-5 | Chrysene-d12 | 12700 | 21.411 | | | | |
| 1520-96-3 | Perylene-d12 | 12700 | 23.75 | | | | |

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\BN091725\
Data File : BN037755.D
Acq On : 17 Sep 2025 20:37
Operator : RC/JU
Sample : Q3095-13
Misc :
ALS Vial : 17 Sample Multiplier: 1

**Instrument :**
BNA_N
**ClientSampleId :**
MW178I1-20250909

Quant Time: Sep 18 05:01:32 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN091125.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Sep 11 14:20:01 2025
Response via : Initial Calibration

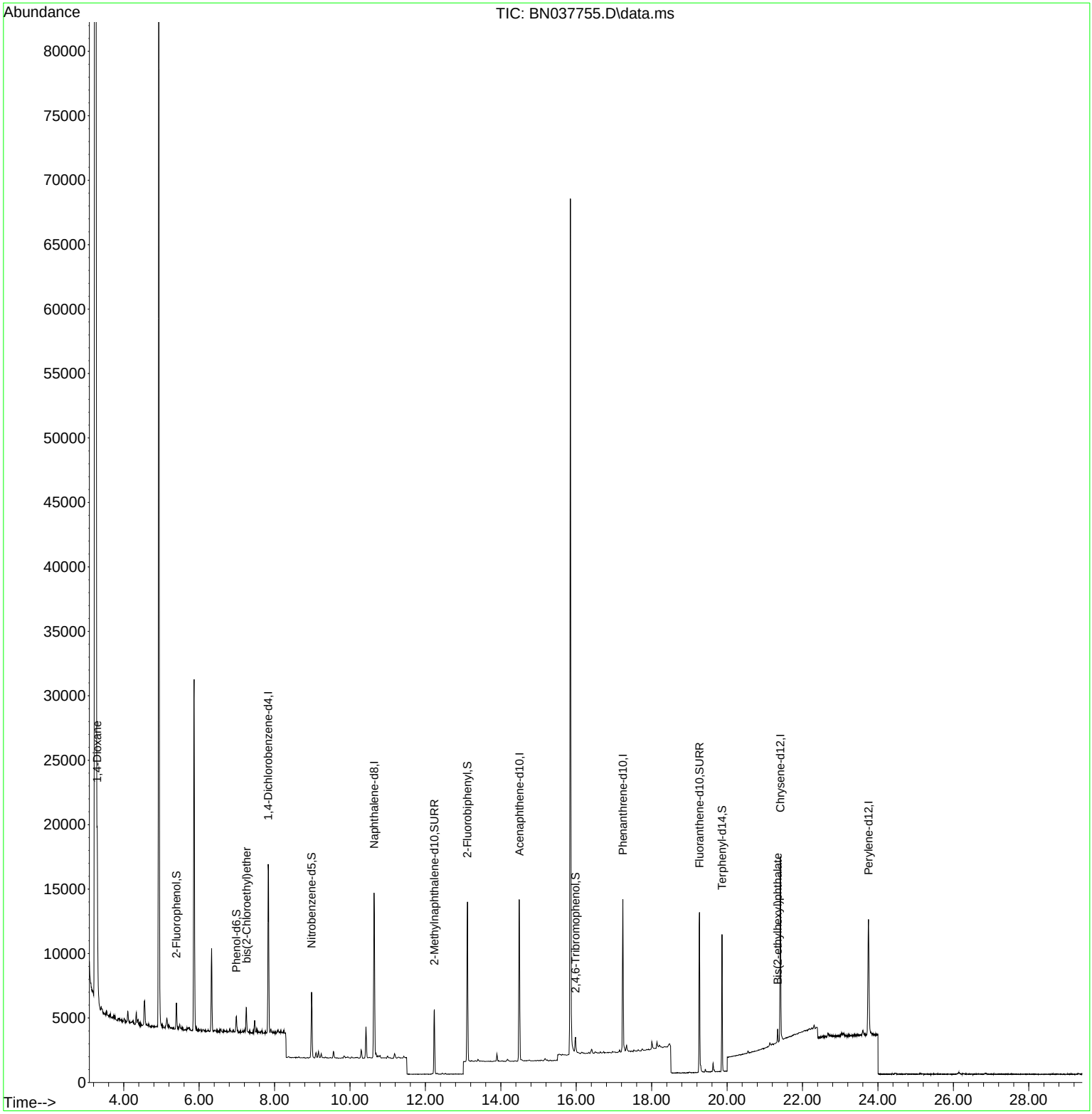
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) 1,4-Dichlorobenzene-d4 | 7.833 | 152 | 6476 | 0.400 | ng | 0.00 |
| 7) Naphthalene-d8 | 10.637 | 136 | 17530 | 0.400 | ng | -0.01 |
| 13) Acenaphthene-d10 | 14.494 | 164 | 7818 | 0.400 | ng | 0.00 |
| 19) Phenanthrene-d10 | 17.235 | 188 | 14505 | 0.400 | ng | # 0.00 |
| 29) Chrysene-d12 | 21.411 | 240 | 12734 | 0.400 | ng | # 0.00 |
| 35) Perylene-d12 | 23.750 | 264 | 12709 | 0.400 | ng | # 0.00 |
| System Monitoring Compounds | | | | | | |
| 4) 2-Fluorophenol | 5.399 | 112 | 1660 | 0.112 | ng | 0.00 |
| 5) Phenol-d6 | 6.988 | 99 | 1198 | 0.062 | ng | 0.00 |
| 8) Nitrobenzene-d5 | 8.982 | 82 | 3998 | 0.312 | ng | -0.01 |
| 11) 2-Methylnaphthalene-d10 | 12.238 | 152 | 6784 | 0.292 | ng | 0.00 |
| 14) 2,4,6-Tribromophenol | 15.982 | 330 | 754 | 0.370 | ng | 0.00 |
| 15) 2-Fluorobiphenyl | 13.115 | 172 | 10455 | 0.320 | ng | 0.00 |
| 27) Fluoranthene-d10 | 19.266 | 212 | 13269 | 0.364 | ng | 0.00 |
| 31) Terphenyl-d14 | 19.866 | 244 | 9829 | 0.380 | ng | 0.00 |
| Target Compounds | | | | | | Qvalue |
| 2) 1,4-Dioxane | 3.297 | 88 | 4441 | 0.658 | ng | # 90 |
| 6) bis(2-Chloroethyl)ether | 7.255 | 93 | 1405 | 0.082 | ng | 98 |
| 34) Bis(2-ethylhexyl)phtha... | 21.340 | 149 | 1079 | 0.082 | ng | 98 |

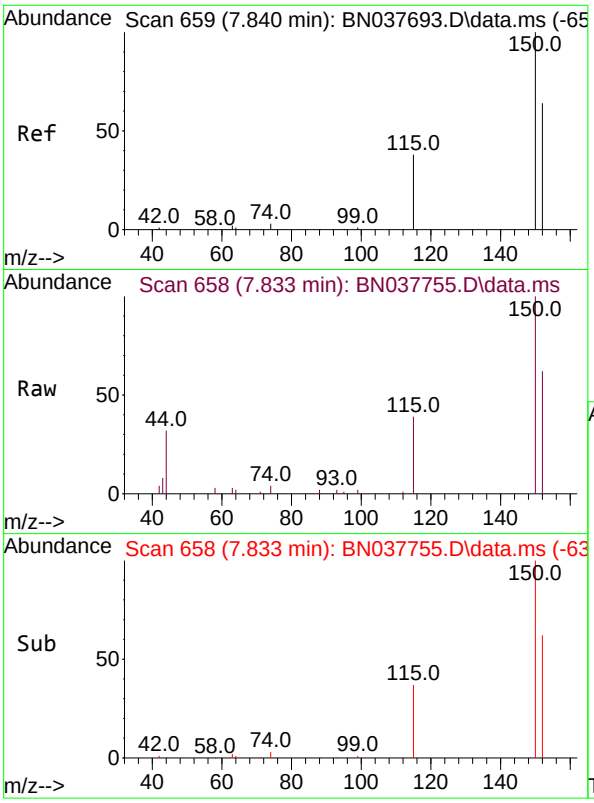
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN091725\
Data File : BN037755.D
Acq On : 17 Sep 2025 20:37
Operator : RC/JU
Sample : Q3095-13
Misc :
ALS Vial : 17 Sample Multiplier: 1

**Instrument :**
BNA_N
**ClientSampleId :**
MW178I1-20250909

Quant Time: Sep 18 05:01:32 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN091125.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Sep 11 14:20:01 2025
Response via : Initial Calibration



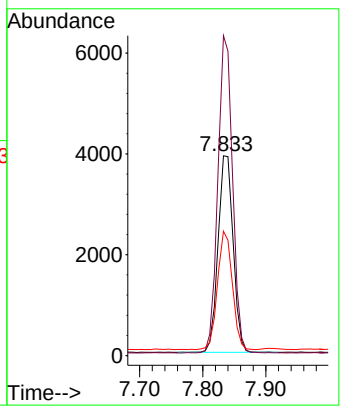


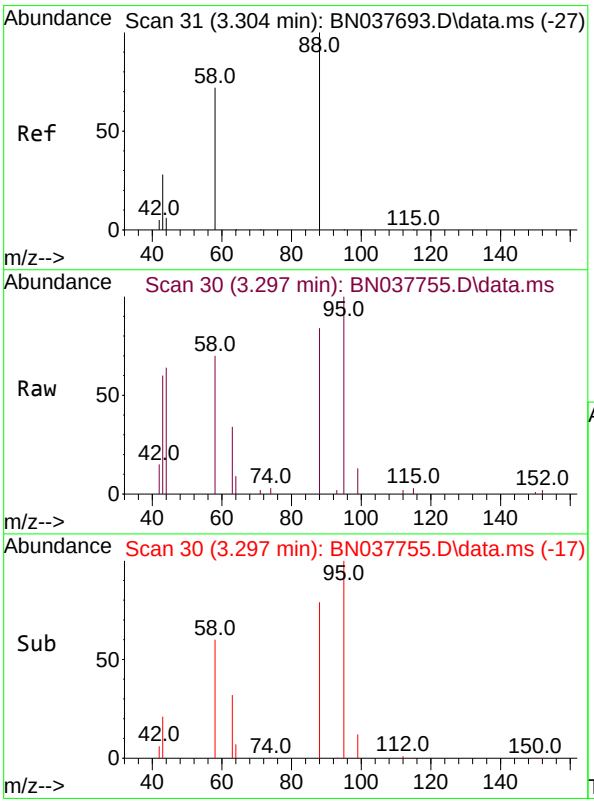

#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.833 min Scan# 6
Delta R.T. -0.007 min
Lab File: BN037755.D
Acq: 17 Sep 2025 20:37

**Instrument :**
BNA_N
**ClientSampleId :**
MW178I1-20250909

Tgt Ion:152 Resp: 6476

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 150 | 160.2 | 124.5 | 186.7 |
| 115 | 62.3 | 49.2 | 73.8 |

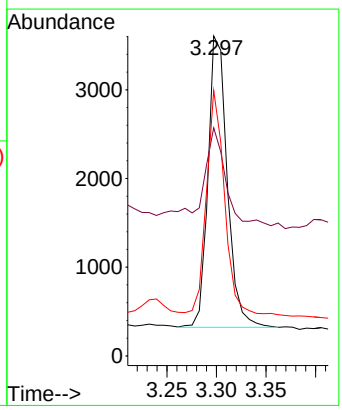


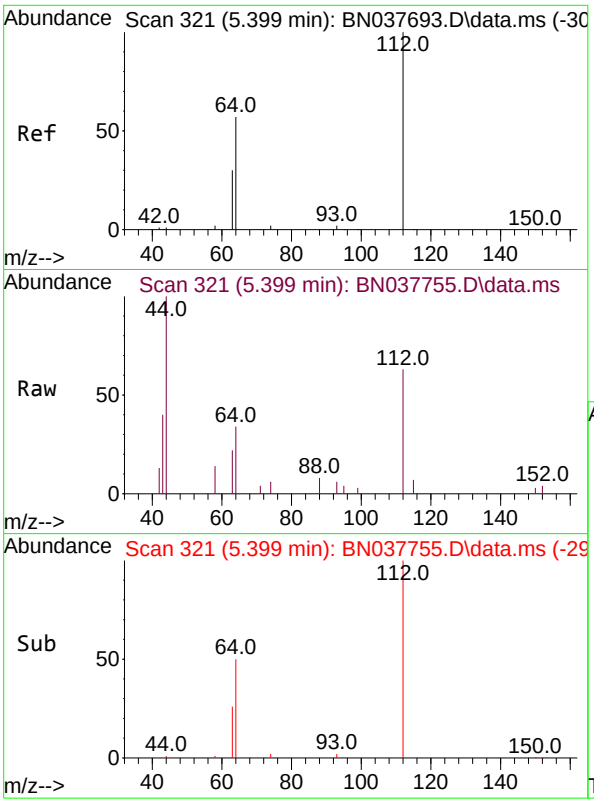




#2
1,4-Dioxane
Concen: 0.658 ng
RT: 3.297 min Scan# 30
Delta R.T. -0.007 min
Lab File: BN037755.D
Acq: 17 Sep 2025 20:37

Tgt Ion: 88 Resp: 4441

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 88 | 100 | | |
| 43 | 46.3 | 26.8 | 40.2# |
| 58 | 73.0 | 61.9 | 92.9 |



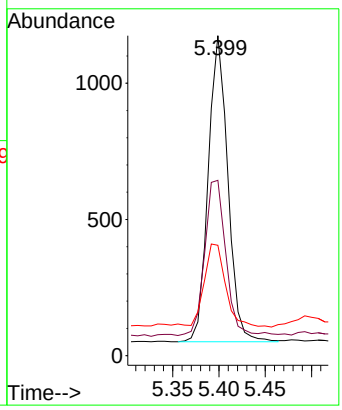


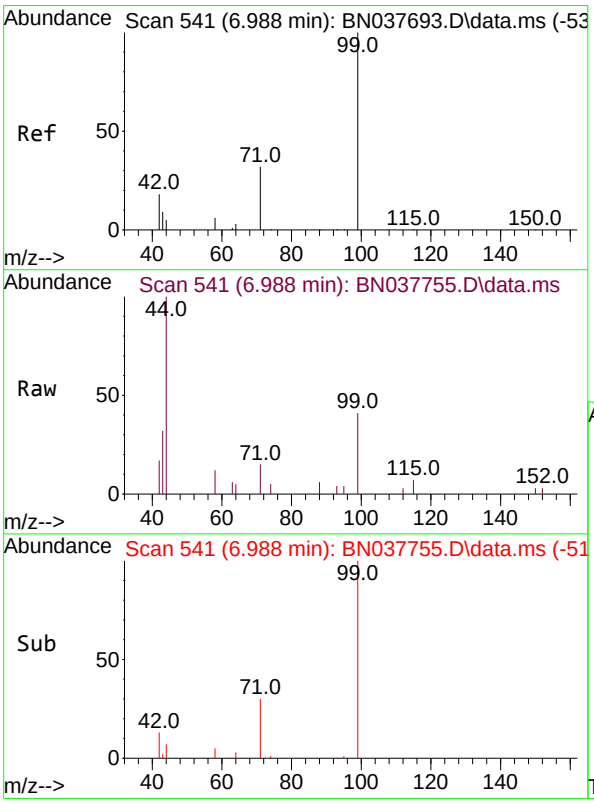

#4
2-Fluorophenol
Concen: 0.112 ng
RT: 5.399 min Scan# 3
Delta R.T. -0.000 min
Lab File: BN037755.D
Acq: 17 Sep 2025 20:37

**Instrument :**
BNA_N
**ClientSampleId :**
MW178I1-20250909

Tgt Ion:112 Resp: 1660

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 112 | 100 | | |
| 64 | 54.6 | 44.9 | 67.3 |
| 63 | 29.5 | 24.7 | 37.1 |

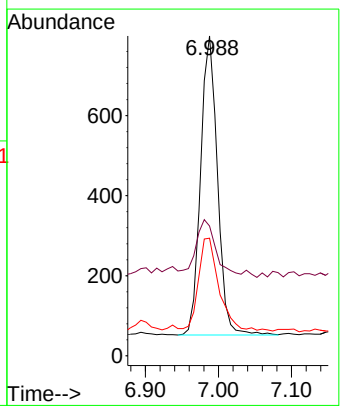


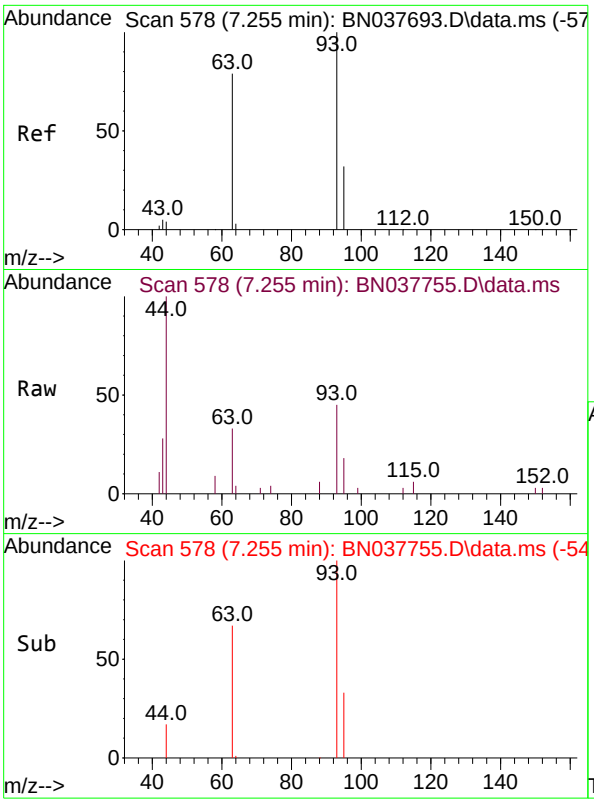




#5
Phenol-d6
Concen: 0.062 ng
RT: 6.988 min Scan# 541
Delta R.T. -0.000 min
Lab File: BN037755.D
Acq: 17 Sep 2025 20:37

Tgt Ion: 99 Resp: 1198

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 99 | 100 | | |
| 42 | 20.1 | 16.6 | 24.8 |
| 71 | 38.1 | 26.7 | 40.1 |



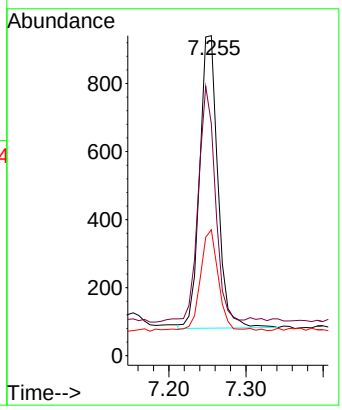


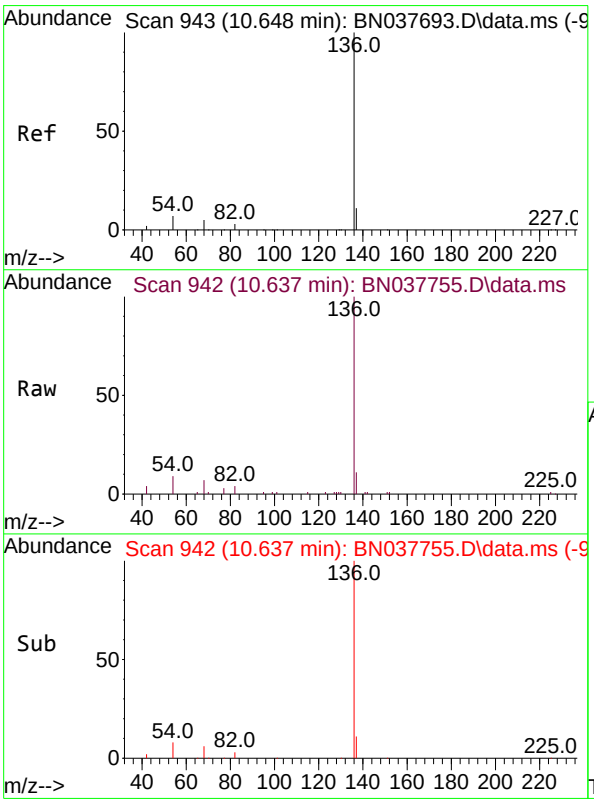

#6
bis(2-Chloroethyl)ether
Concen: 0.082 ng
RT: 7.255 min Scan# 5
Delta R.T. -0.000 min
Lab File: BN037755.D
Acq: 17 Sep 2025 20:37

**Instrument :**
BNA_N
**ClientSampleId :**
MW178I1-20250909

Tgt Ion: 93 Resp: 1405

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 93 | 100 | | |
| 63 | 76.2 | 60.6 | 90.8 |
| 95 | 35.7 | 26.0 | 39.0 |

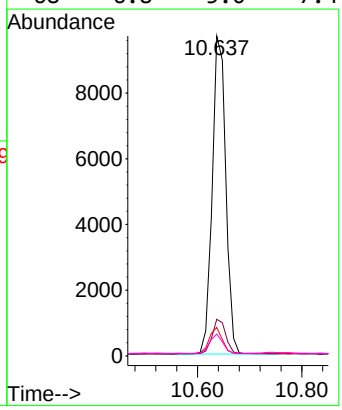


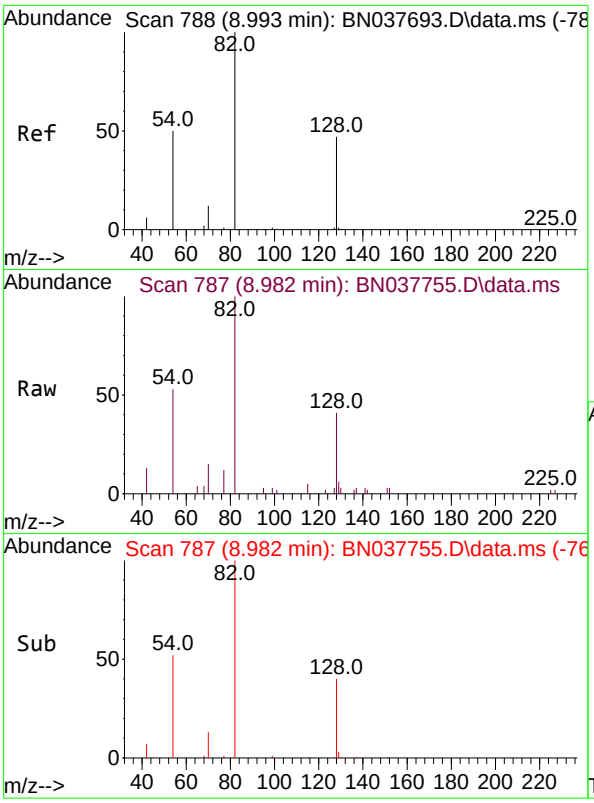




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.637 min Scan# 942
Delta R.T. -0.011 min
Lab File: BN037755.D
Acq: 17 Sep 2025 20:37

Tgt Ion:136 Resp: 17530

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 136 | 100 | | |
| 137 | 11.4 | 9.1 | 13.7 |
| 54 | 8.9 | 6.3 | 9.5 |
| 68 | 6.8 | 5.0 | 7.4 |



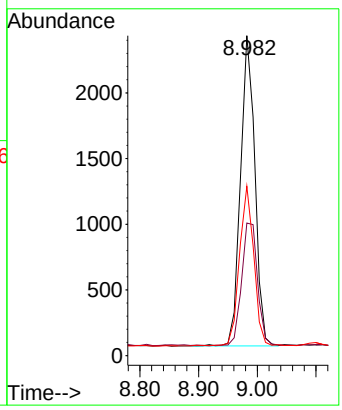


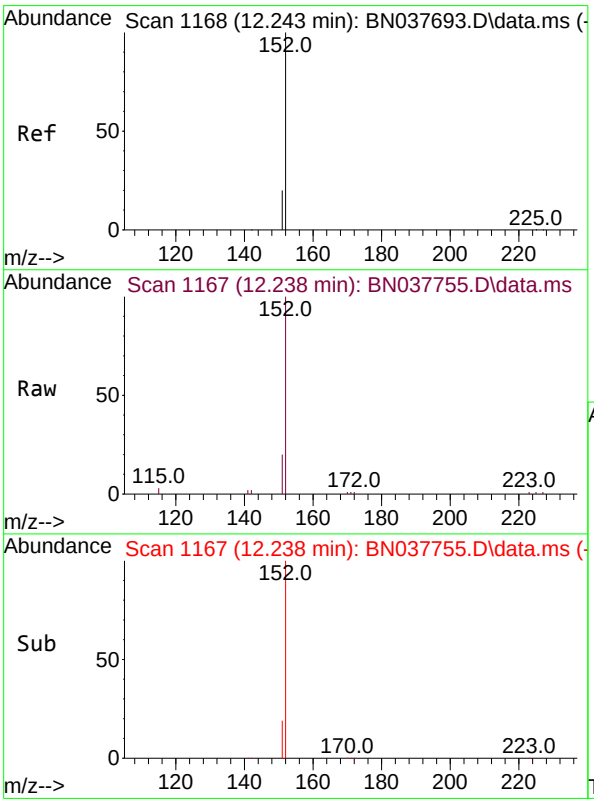

#8
Nitrobenzene-d5
Concen: 0.312 ng
RT: 8.982 min Scan# 78
Delta R.T. -0.011 min
Lab File: BN037755.D
Acq: 17 Sep 2025 20:37

**Instrument :**
BNA_N
**ClientSampleId :**
MW178I1-20250909

Tgt Ion: 82 Resp: 3998

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 82 | 100 | | |
| 128 | 41.4 | 38.3 | 57.5 |
| 54 | 52.9 | 41.4 | 62.2 |

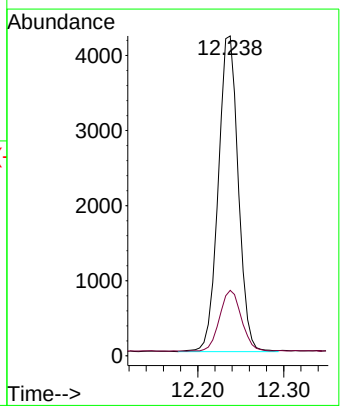


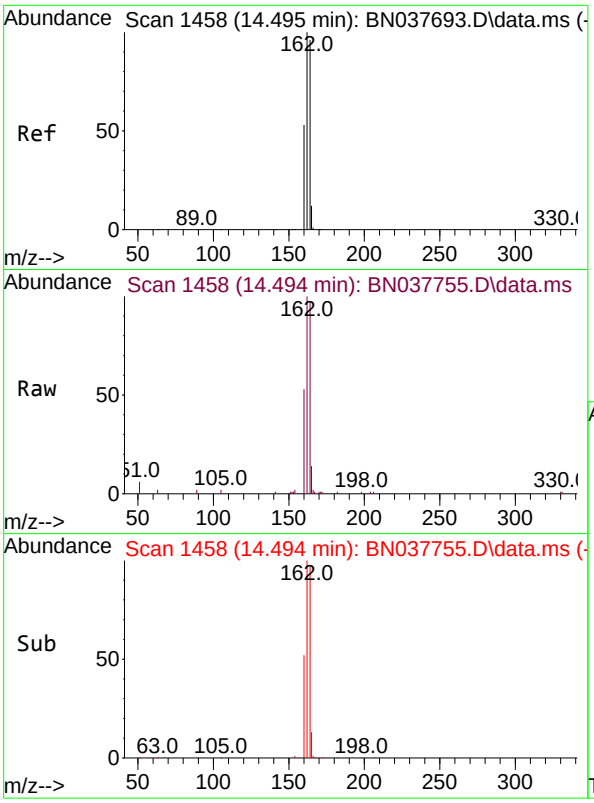




#11
2-Methylnaphthalene-d10
Concen: 0.292 ng
RT: 12.238 min Scan# 1167
Delta R.T. -0.005 min
Lab File: BN037755.D
Acq: 17 Sep 2025 20:37

Tgt Ion:152 Resp: 6784

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



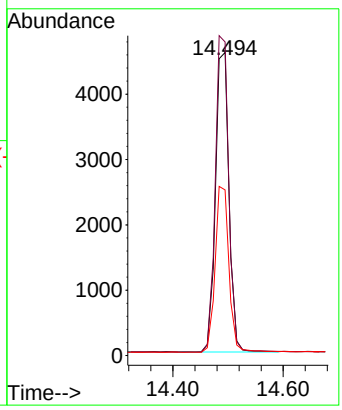


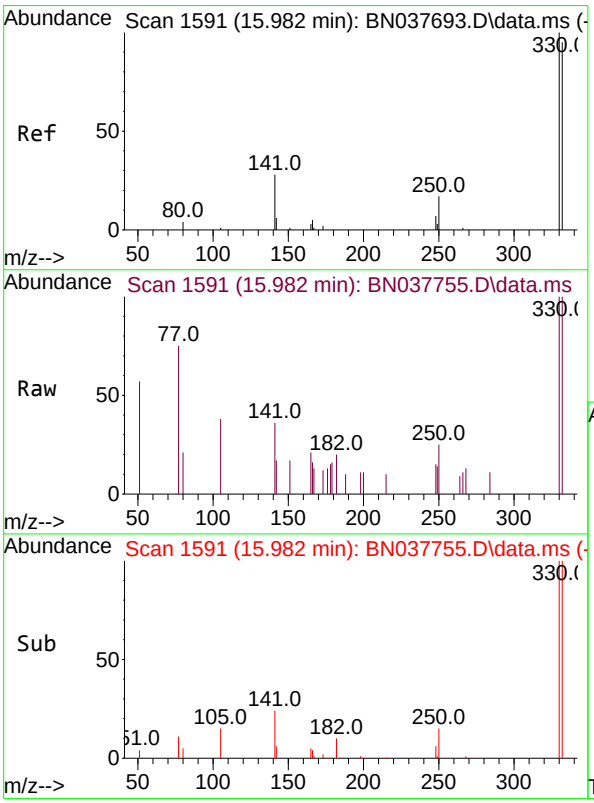

#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.494 min Scan# 14
Delta R.T. -0.000 min
Lab File: BN037755.D
Acq: 17 Sep 2025 20:37

**Instrument :**
BNA_N
**ClientSampleId :**
MW178I1-20250909

Tgt Ion:164 Resp: 7818

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 164 | 100 | | |
| 162 | 103.5 | 83.1 | 124.7 |
| 160 | 54.7 | 44.3 | 66.5 |

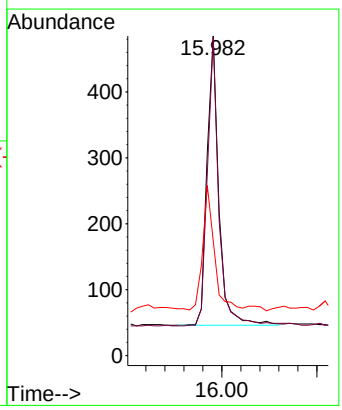


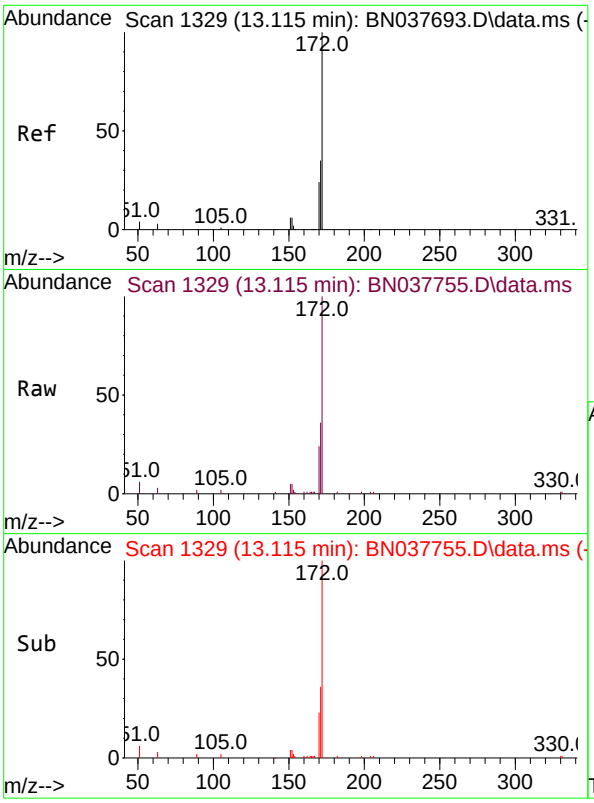




#14
2,4,6-Tribromophenol
Concen: 0.370 ng
RT: 15.982 min Scan# 1591
Delta R.T. -0.000 min
Lab File: BN037755.D
Acq: 17 Sep 2025 20:37

Tgt Ion:330 Resp: 754

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 330 | 100 | | |
| 332 | 96.6 | 75.3 | 112.9 |
| 141 | 43.4 | 35.0 | 52.4 |



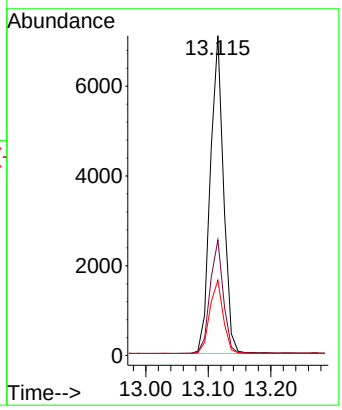


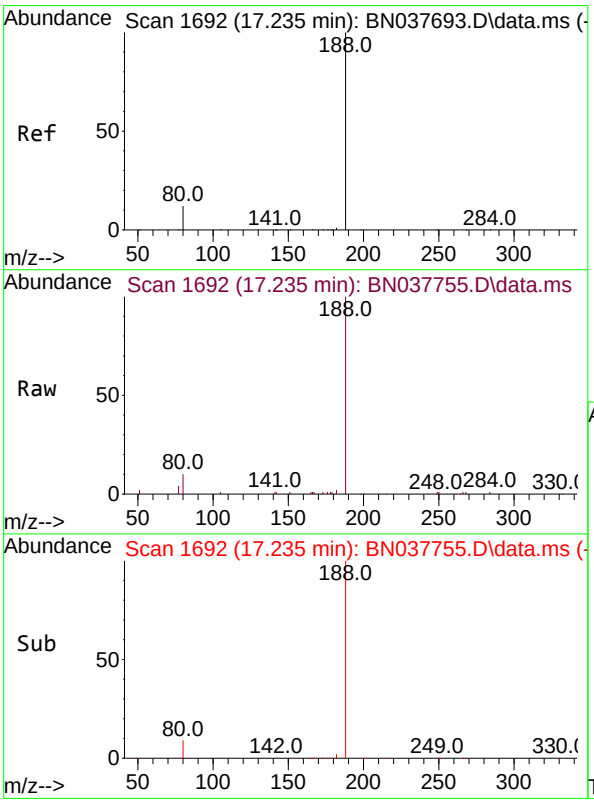

#15
2-Fluorobiphenyl
Concen: 0.320 ng
RT: 13.115 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN037755.D
Acq: 17 Sep 2025 20:37

**Instrument :**
BNA_N
**ClientSampleId :**
MW178I1-20250909

Tgt Ion:172 Resp: 10455

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 172 | 100 | | |
| 171 | 36.2 | 28.6 | 43.0 |
| 170 | 23.6 | 19.8 | 29.8 |

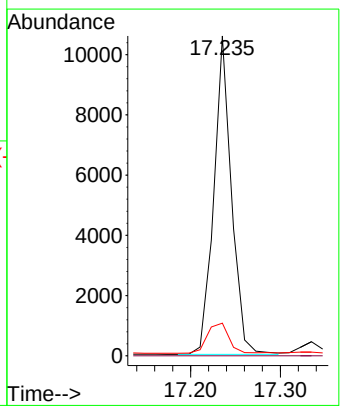


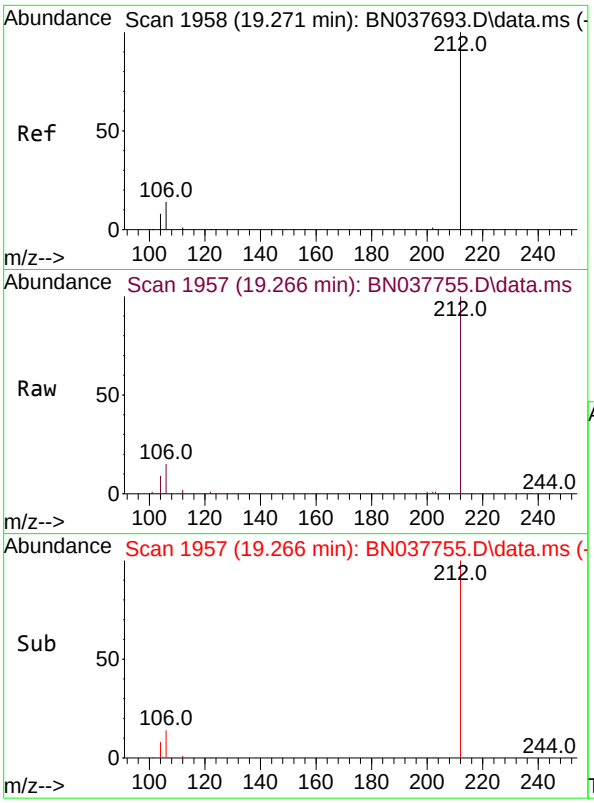




#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.235 min Scan# 1692
Delta R.T. -0.000 min
Lab File: BN037755.D
Acq: 17 Sep 2025 20:37

Tgt Ion:188 Resp: 14505

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 188 | 100 | | |
| 94 | 0.0 | 0.0 | 0.0 |
| 80 | 10.2 | 10.6 | 15.8# |



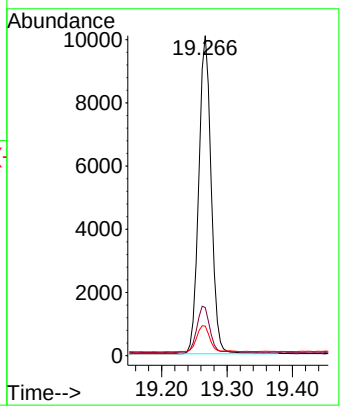


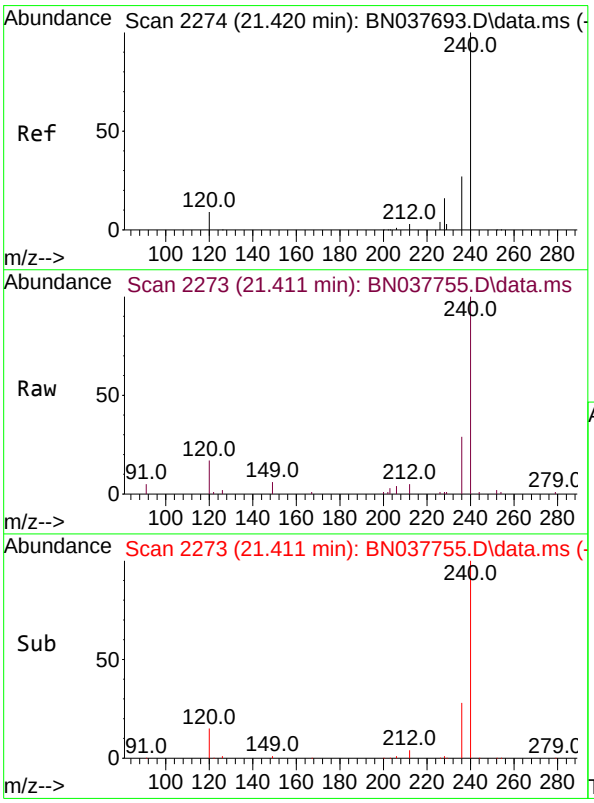

#27
Fluoranthene-d10
Concen: 0.364 ng
RT: 19.266 min Scan# 19
Delta R.T. -0.005 min
Lab File: BN037755.D
Acq: 17 Sep 2025 20:37

**Instrument :**
BNA_N
**ClientSampleId :**
MW178I1-20250909

Tgt Ion:212 Resp: 13269

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 212 | 100 | | |
| 106 | 15.1 | 12.2 | 18.2 |
| 104 | 8.6 | 6.9 | 10.3 |

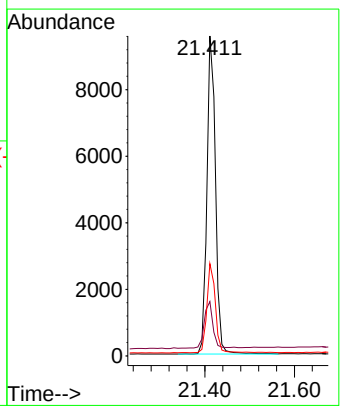


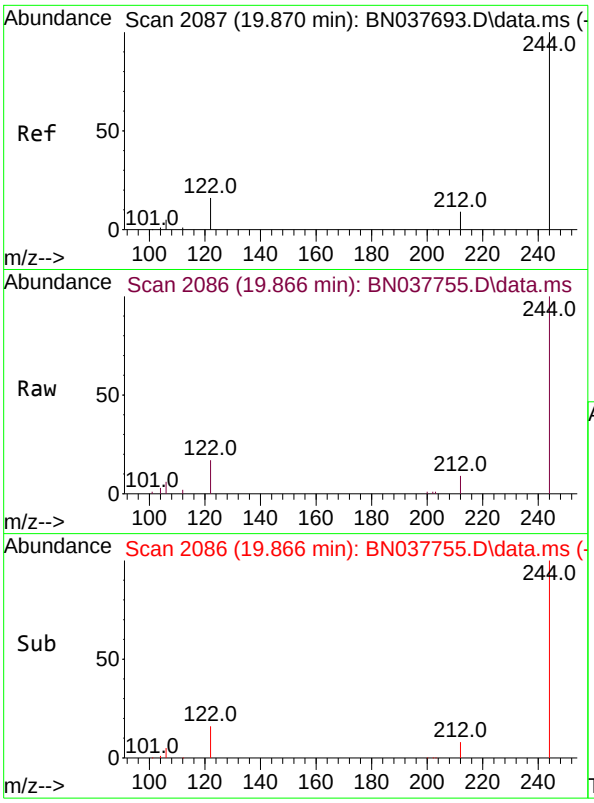




#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.411 min Scan# 2273
Delta R.T. -0.009 min
Lab File: BN037755.D
Acq: 17 Sep 2025 20:37

Tgt Ion:240 Resp: 12734

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 240 | 100 | | |
| 120 | 17.0 | 9.2 | 13.8# |
| 236 | 28.8 | 22.6 | 33.8 |



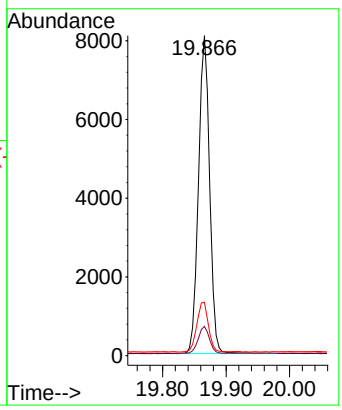


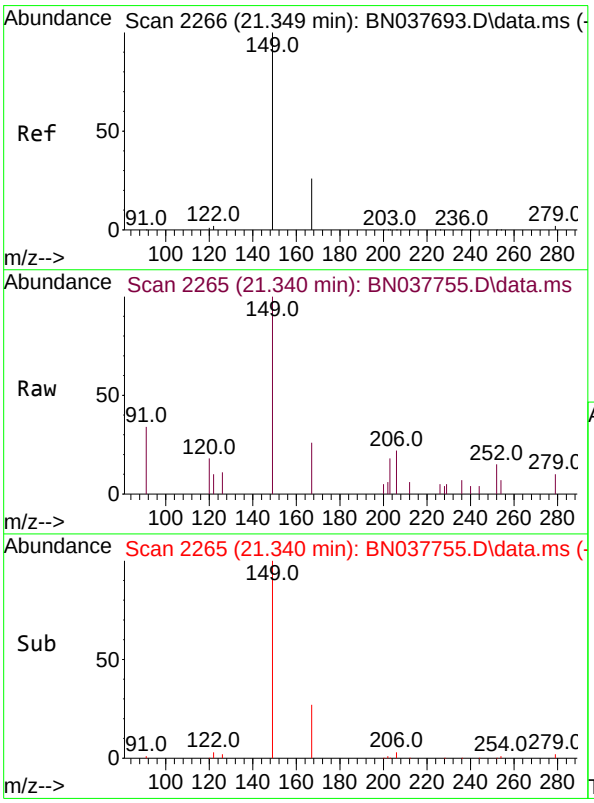

#31
Terphenyl-d14
Concen: 0.380 ng
RT: 19.866 min Scan# 20
Delta R.T. -0.005 min
Lab File: BN037755.D
Acq: 17 Sep 2025 20:37

**Instrument :**
BNA_N
**ClientSampleId :**
MW178I1-20250909

Tgt Ion:244 Resp: 9829

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 244 | 100 | | |
| 212 | 9.1 | 7.5 | 11.3 |
| 122 | 16.7 | 13.2 | 19.8 |

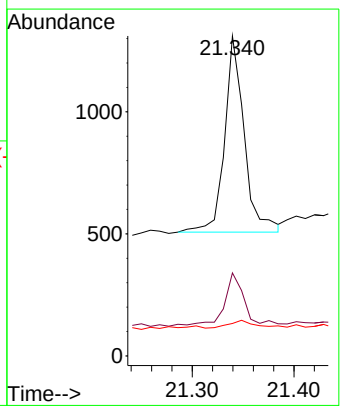


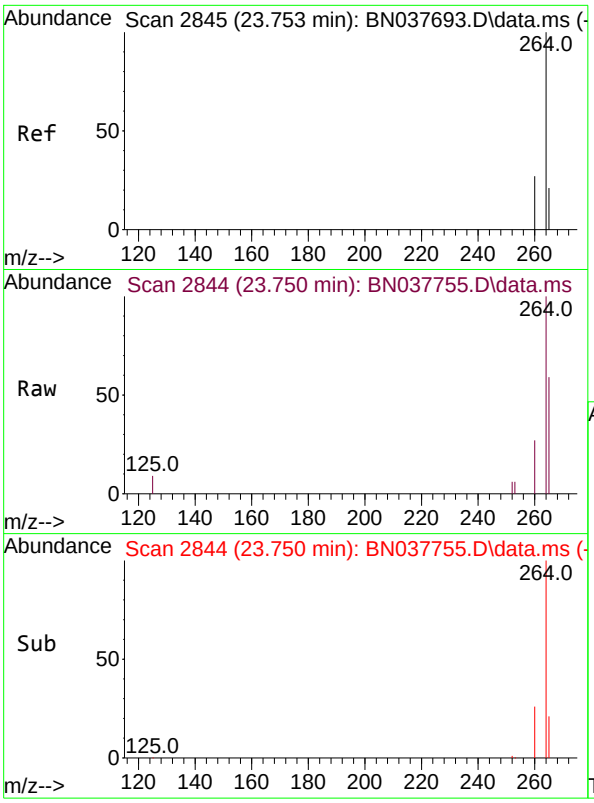




#34
Bis(2-ethylhexyl)phthalate
Concen: 0.082 ng
RT: 21.340 min Scan# 2265
Delta R.T. -0.009 min
Lab File: BN037755.D
Acq: 17 Sep 2025 20:37

Tgt Ion:149 Resp: 1079

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 149 | 100 | | |
| 167 | 25.2 | 20.8 | 31.2 |
| 279 | 4.9 | 3.3 | 4.9 |



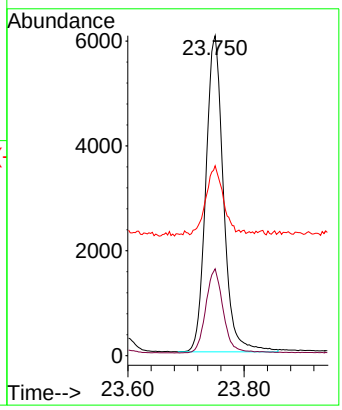



#35
Perylene-d12
Concen: 0.400 ng
RT: 23.750 min Scan# 2
Delta R.T. -0.003 min
Lab File: BN037755.D
Acq: 17 Sep 2025 20:37

**Instrument :**
BNA_N
**ClientSampleId :**
MW178I1-20250909

Tgt Ion:264 Resp: 12709

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 264 | 100 | | |
| 260 | 27.1 | 21.8 | 32.8 |
| 265 | 59.4 | 39.4 | 59.2# |



Raw Data: **BN037762.D**

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

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | AECOM Technical Services, Inc. | Date Collected: | 09/09/25 |
| Project: | NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258 | Date Received: | 09/12/25 |
| Client Sample ID: | RE123D1-20250909 | SDG No.: | Q3095 |
| Lab Sample ID: | Q3095-14 | Matrix: | Water |
| Analytical Method: | SW8270ESIM | % Solid: | 0 |
| Sample Wt/Vol: | 970 Units: mL | Final Vol: | 1000 uL |
| Soil Aliquot Vol: | uL | Test: | SVOC-SIMGroup1 |
| Extraction Type : | Decanted : N | Level : | LOW |
| Injection Volume : | GPC Factor : 1.0 | GPC Cleanup : | N PH : |
| Prep Method : | | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| BN037762.D | 1 | 09/15/25 10:15 | 09/18/25 04:34 | PB169692 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOD | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | | |
| 123-91-1 | 1,4-Dioxane | 0.74 | | 0.070 | 0.21 | 0.21 | ug/L |
| **SURROGATES** | | | | | | | |
| 7297-45-2 | 2-Methylnaphthalene-d10 | 0.30 | | 30 - 150 | | 75% | SPK: 0.4 |
| 93951-69-0 | Fluoranthene-d10 | 0.37 | | 30 - 150 | | 93% | SPK: 0.4 |
| 4165-60-0 | Nitrobenzene-d5 | 0.32 | | 55 - 111 | | 79% | SPK: 0.4 |
| 321-60-8 | 2-Fluorobiphenyl | 0.31 | | 53 - 106 | | 79% | SPK: 0.4 |
| 1718-51-0 | Terphenyl-d14 | 0.37 | | 58 - 132 | | 93% | SPK: 0.4 |
| **INTERNAL STANDARDS** | | | | | | | |
| 3855-82-1 | 1,4-Dichlorobenzene-d4 | 6990 | 7.833 | | | | |
| 1146-65-2 | Naphthalene-d8 | 18800 | 10.637 | | | | |
| 15067-26-2 | Acenaphthene-d10 | 8990 | 14.484 | | | | |
| 1517-22-2 | Phenanthrene-d10 | 16600 | 17.235 | | | | |
| 1719-03-5 | Chrysene-d12 | 14000 | 21.411 | | | | |
| 1520-96-3 | Perylene-d12 | 14300 | 23.744 | | | | |

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\BN091725\
Data File : BN037762.D
Acq On : 18 Sep 2025 04:34
Operator : RC/JU
Sample : Q3095-14
Misc :
ALS Vial : 23 Sample Multiplier: 1

**Instrument :**
BNA_N
**ClientSampleId :**
RE123D1-20250909

Quant Time: Sep 18 05:29:19 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN091125.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Sep 11 14:20:01 2025
Response via : Initial Calibration

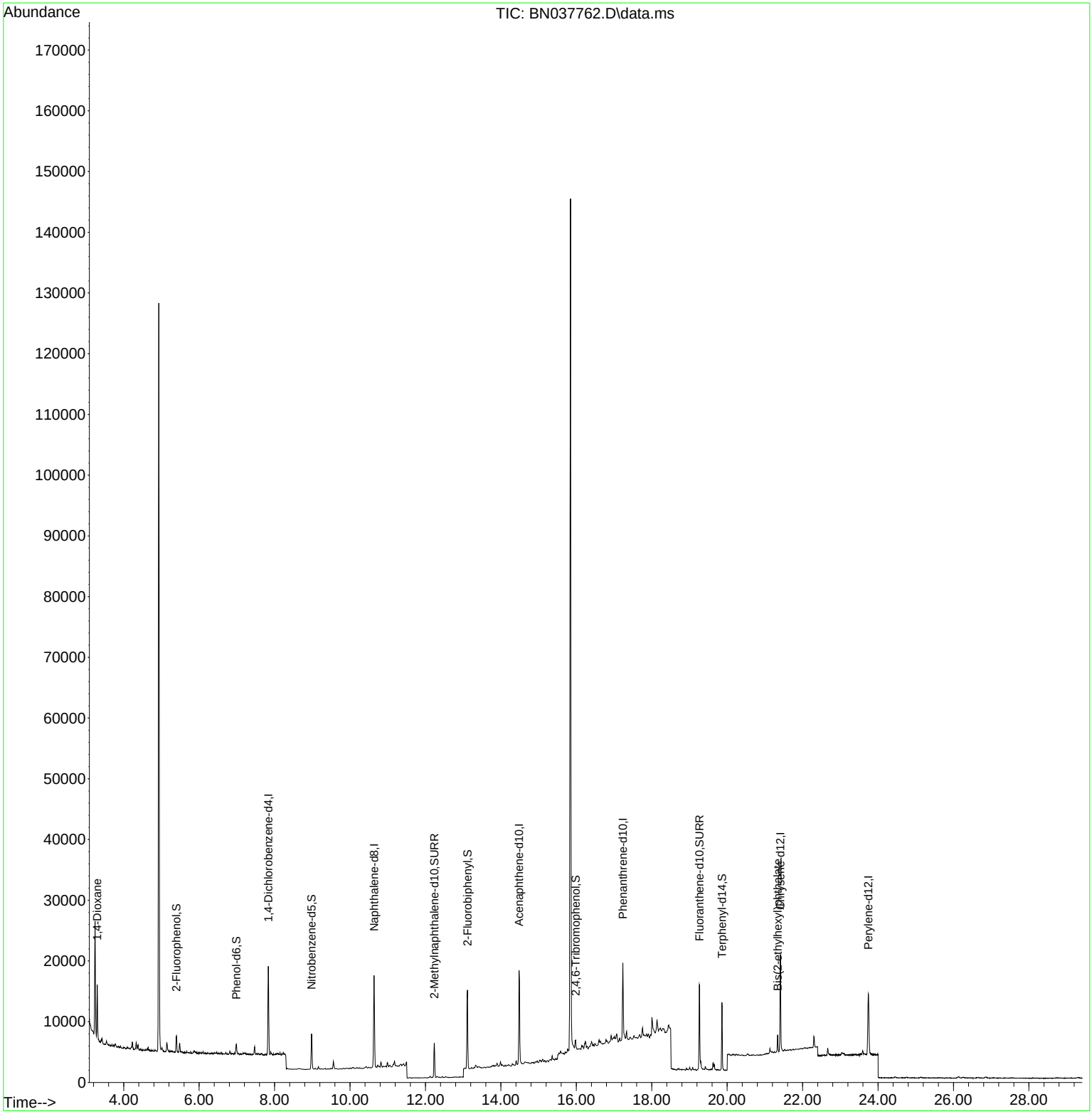
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) 1,4-Dichlorobenzene-d4 | 7.833 | 152 | 6993 | 0.400 | ng | 0.00 |
| 7) Naphthalene-d8 | 10.637 | 136 | 18780 | 0.400 | ng | -0.01 |
| 13) Acenaphthene-d10 | 14.484 | 164 | 8989 | 0.400 | ng | -0.01 |
| 19) Phenanthrene-d10 | 17.235 | 188 | 16581 | 0.400 | ng | 0.00 |
| 29) Chrysene-d12 | 21.411 | 240 | 13960 | 0.400 | ng | # 0.00 |
| 35) Perylene-d12 | 23.744 | 264 | 14258 | 0.400 | ng | # 0.00 |
| System Monitoring Compounds | | | | | | |
| 4) 2-Fluorophenol | 5.399 | 112 | 2224 | 0.139 | ng | 0.00 |
| 5) Phenol-d6 | 6.988 | 99 | 1599 | 0.077 | ng | 0.00 |
| 8) Nitrobenzene-d5 | 8.982 | 82 | 4348 | 0.317 | ng | -0.01 |
| 11) 2-Methylnaphthalene-d10 | 12.232 | 152 | 7421 | 0.298 | ng | -0.01 |
| 14) 2,4,6-Tribromophenol | 15.982 | 330 | 878 | 0.374 | ng | 0.00 |
| 15) 2-Fluorobiphenyl | 13.115 | 172 | 11793 | 0.314 | ng | 0.00 |
| 27) Fluoranthene-d10 | 19.266 | 212 | 15400 | 0.370 | ng | 0.00 |
| 31) Terphenyl-d14 | 19.861 | 244 | 10486 | 0.370 | ng | 0.00 |
| Target Compounds | | | | | | Qvalue |
| 2) 1,4-Dioxane | 3.297 | 88 | 5205 | 0.715 | ng | 95 |
| 34) Bis(2-ethylhexyl)phtha... | 21.339 | 149 | 2706 | 0.187 | ng | 99 |

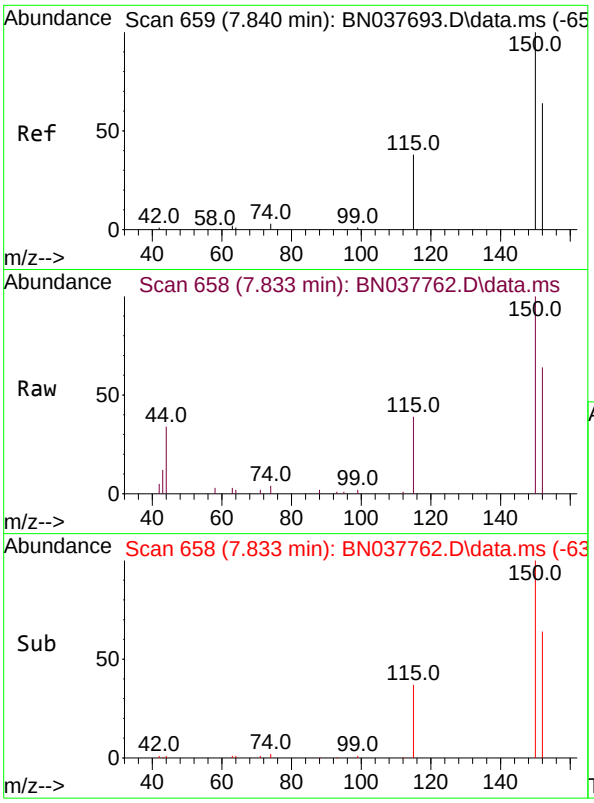
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN091725\
Data File : BN037762.D
Acq On : 18 Sep 2025 04:34
Operator : RC/JU
Sample : Q3095-14
Misc :
ALS Vial : 23 Sample Multiplier: 1

**Instrument :**
BNA_N
**ClientSampleId :**
RE123D1-20250909

Quant Time: Sep 18 05:29:19 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN091125.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Sep 11 14:20:01 2025
Response via : Initial Calibration



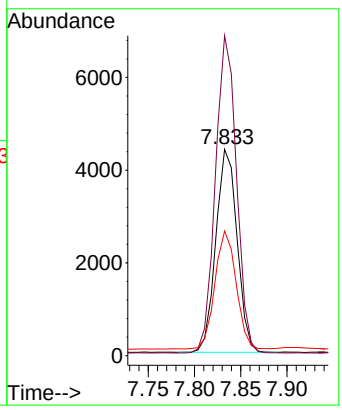


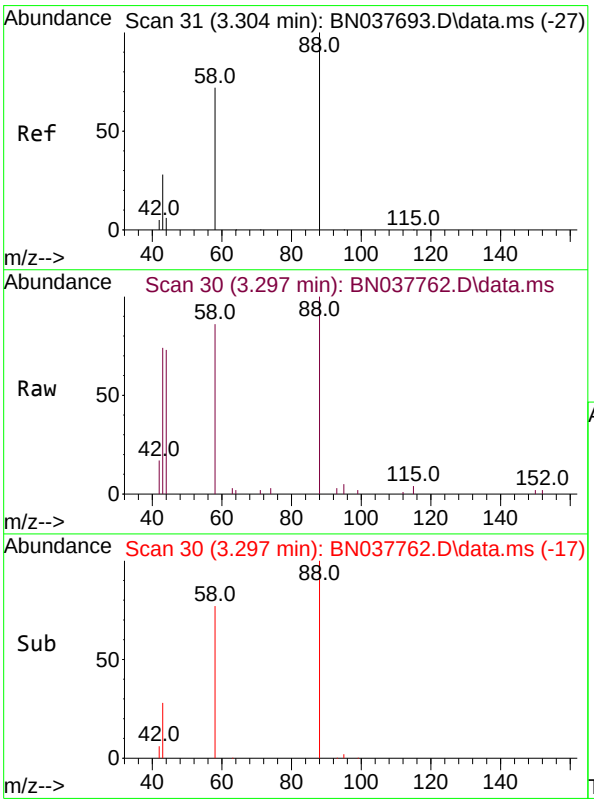

#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.833 min Scan# 6
Delta R.T. -0.007 min
Lab File: BN037762.D
Acq: 18 Sep 2025 04:34

**Instrument :**
BNA_N
**ClientSampleId :**
RE123D1-20250909

Tgt Ion:152 Resp: 6993

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 150 | 155.1 | 124.5 | 186.7 |
| 115 | 60.4 | 49.2 | 73.8 |

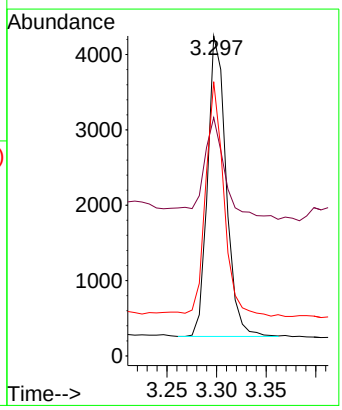


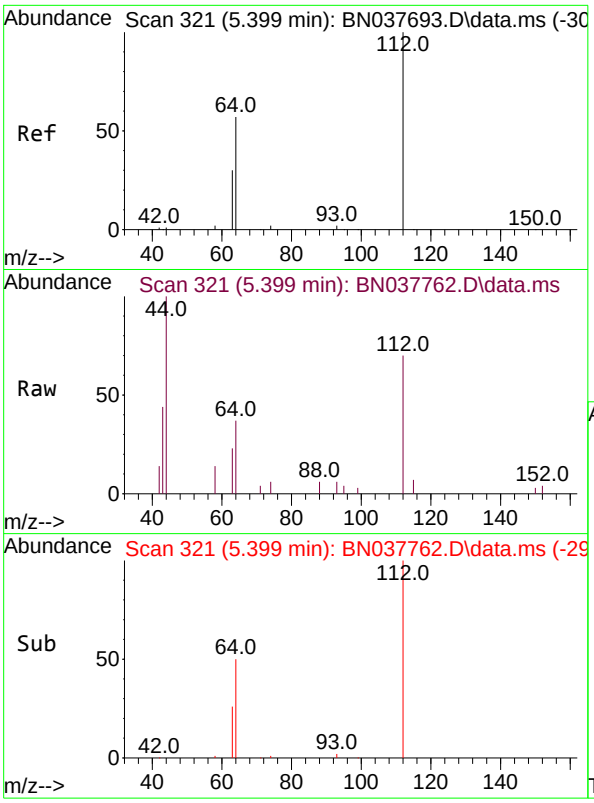




#2
1,4-Dioxane
Concen: 0.715 ng
RT: 3.297 min Scan# 30
Delta R.T. -0.007 min
Lab File: BN037762.D
Acq: 18 Sep 2025 04:34

Tgt Ion: 88 Resp: 5205

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 88 | 100 | | |
| 43 | 39.3 | 26.8 | 40.2 |
| 58 | 79.2 | 61.9 | 92.9 |



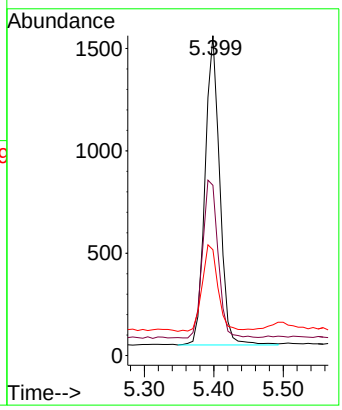


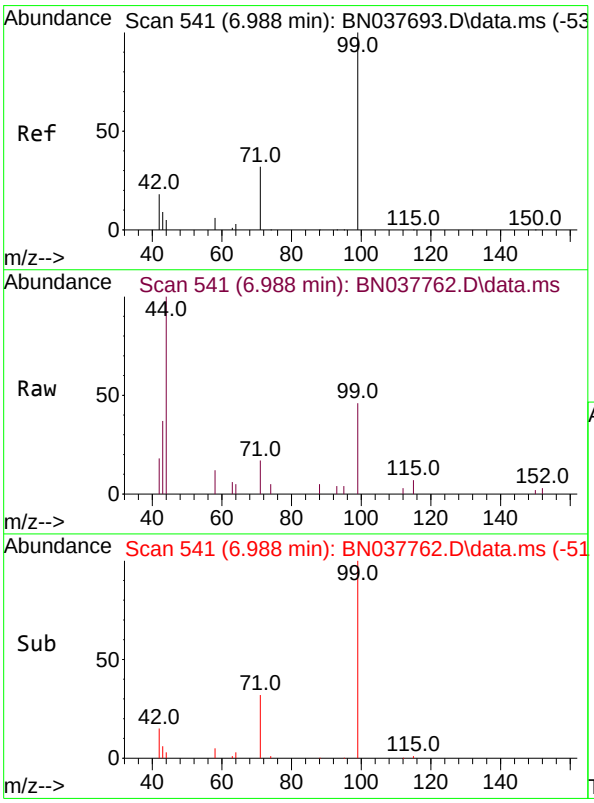

#4
2-Fluorophenol
Concen: 0.139 ng
RT: 5.399 min Scan# 3
Delta R.T. -0.000 min
Lab File: BN037762.D
Acq: 18 Sep 2025 04:34

**Instrument :**
BNA_N
**ClientSampleId :**
RE123D1-20250909

Tgt Ion:112 Resp: 2224

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 112 | 100 | | |
| 64 | 54.1 | 44.9 | 67.3 |
| 63 | 30.1 | 24.7 | 37.1 |

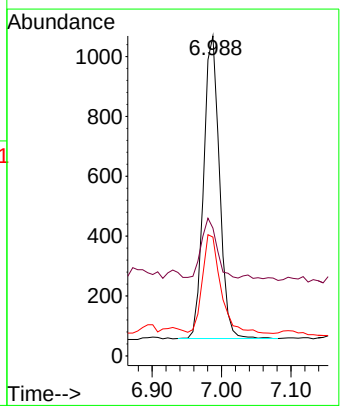


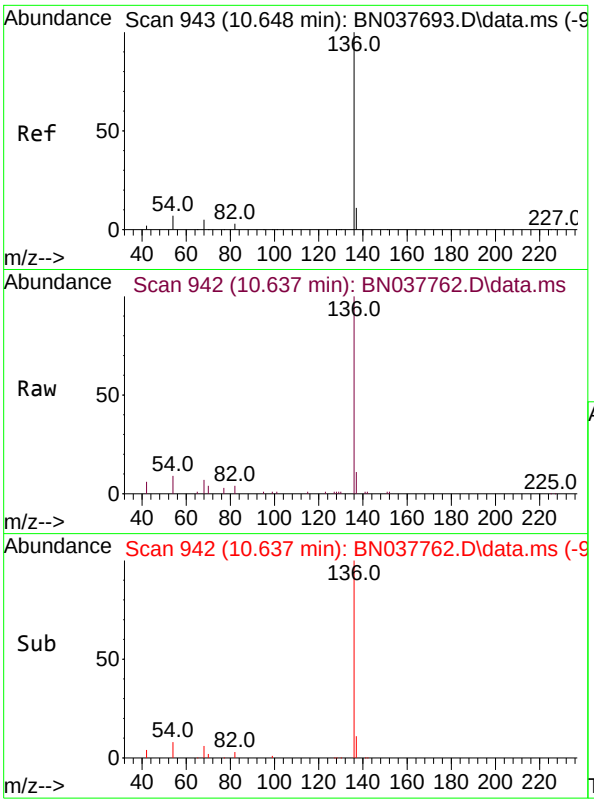




#5
Phenol-d6
Concen: 0.077 ng
RT: 6.988 min Scan# 541
Delta R.T. -0.000 min
Lab File: BN037762.D
Acq: 18 Sep 2025 04:34

Tgt Ion: 99 Resp: 1599

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 99 | 100 | | |
| 42 | 18.9 | 16.6 | 24.8 |
| 71 | 39.8 | 26.7 | 40.1 |



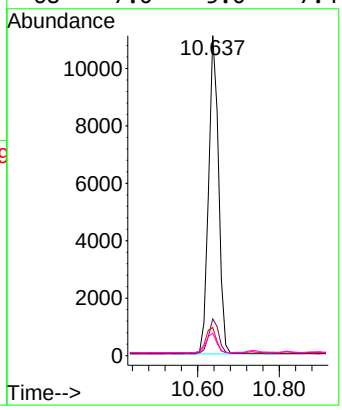


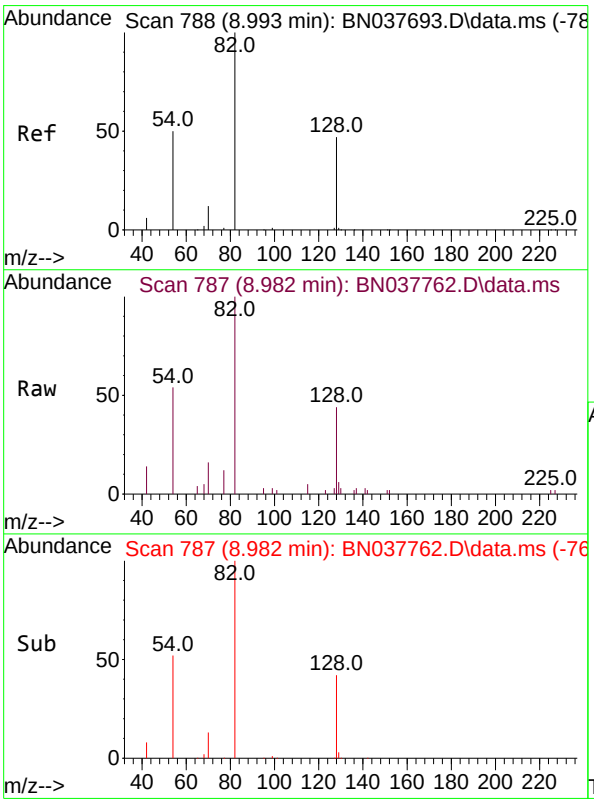

#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.637 min Scan# 94
Delta R.T. -0.011 min
Lab File: BN037762.D
Acq: 18 Sep 2025 04:34

**Instrument :**
BNA_N
**ClientSampleId :**
RE123D1-20250909

Tgt Ion:136 Resp: 18780

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 136 | 100 | | |
| 137 | 11.5 | 9.1 | 13.7 |
| 54 | 8.8 | 6.3 | 9.5 |
| 68 | 7.0 | 5.0 | 7.4 |

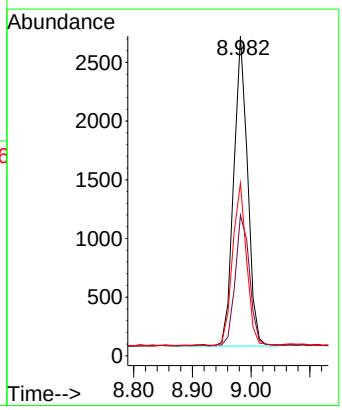


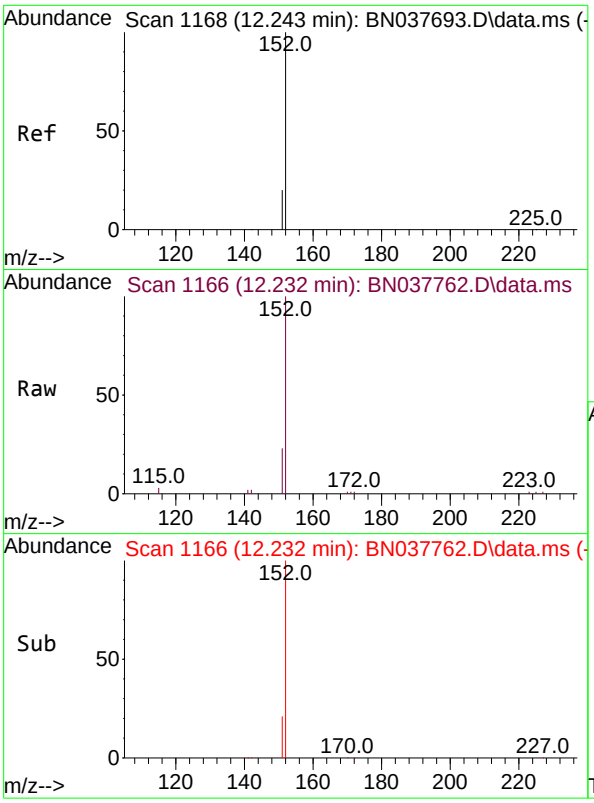




#8
Nitrobenzene-d5
Concen: 0.317 ng
RT: 8.982 min Scan# 787
Delta R.T. -0.011 min
Lab File: BN037762.D
Acq: 18 Sep 2025 04:34

Tgt Ion: 82 Resp: 4348

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 82 | 100 | | |
| 128 | 43.9 | 38.3 | 57.5 |
| 54 | 54.0 | 41.4 | 62.2 |



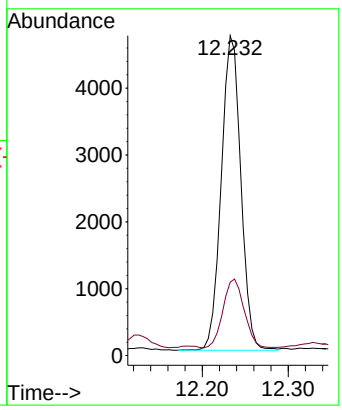


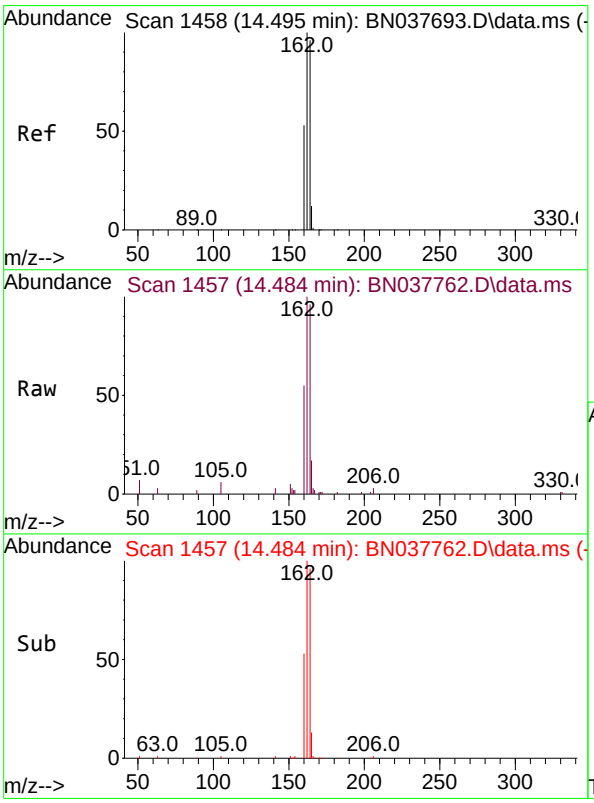

#11
2-Methylnaphthalene-d10
Concen: 0.298 ng
RT: 12.232 min Scan# 11
Delta R.T. -0.010 min
Lab File: BN037762.D
Acq: 18 Sep 2025 04:34

**Instrument :**
BNA_N
**ClientSampleId :**
RE123D1-20250909

Tgt Ion:152 Resp: 7421

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 151 | 23.7 | 17.0 | 25.6 |

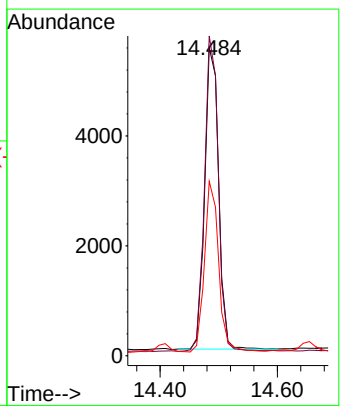


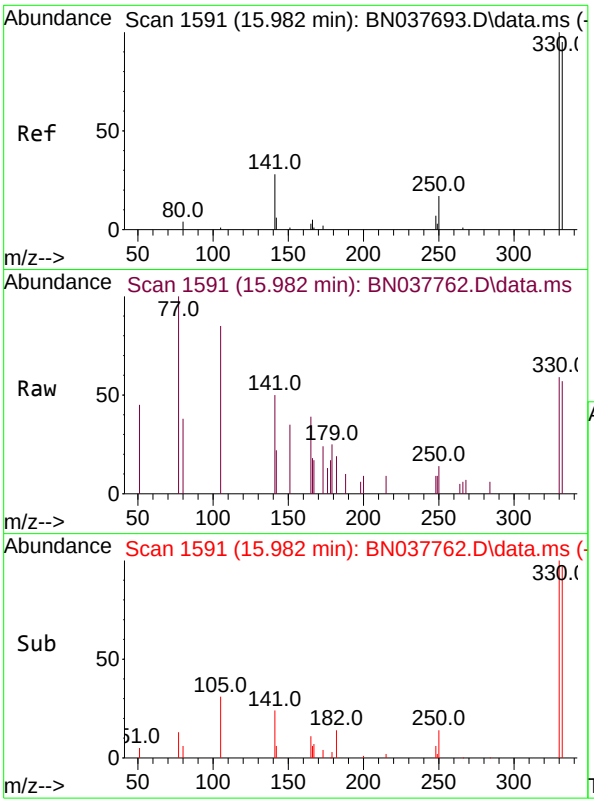




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.484 min Scan# 1457
Delta R.T. -0.011 min
Lab File: BN037762.D
Acq: 18 Sep 2025 04:34

Tgt Ion:164 Resp: 8989

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 164 | 100 | | |
| 162 | 103.8 | 83.1 | 124.7 |
| 160 | 56.6 | 44.3 | 66.5 |



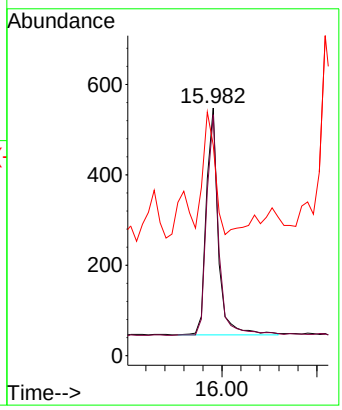


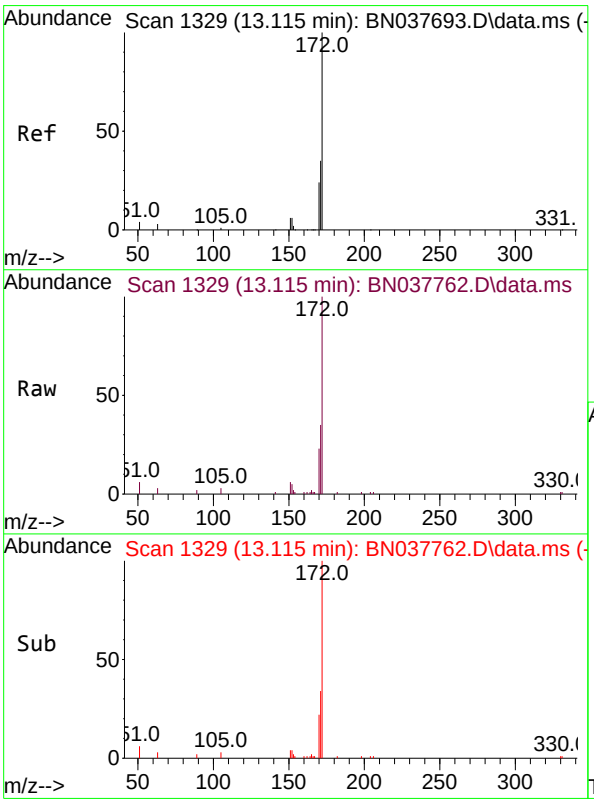

#14
2,4,6-Tribromophenol
Concen: 0.374 ng
RT: 15.982 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN037762.D
Acq: 18 Sep 2025 04:34

**Instrument :**
BNA_N
**ClientSampleId :**
RE123D1-20250909

Tgt Ion:330 Resp: 878

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 330 | 100 | | |
| 332 | 98.3 | 75.3 | 112.9 |
| 141 | 48.7 | 35.0 | 52.4 |

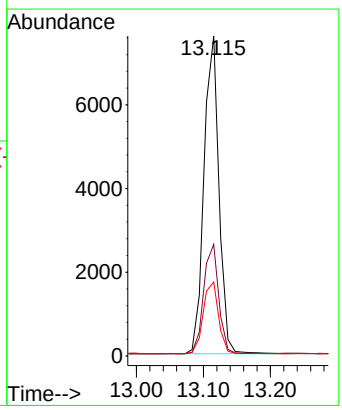


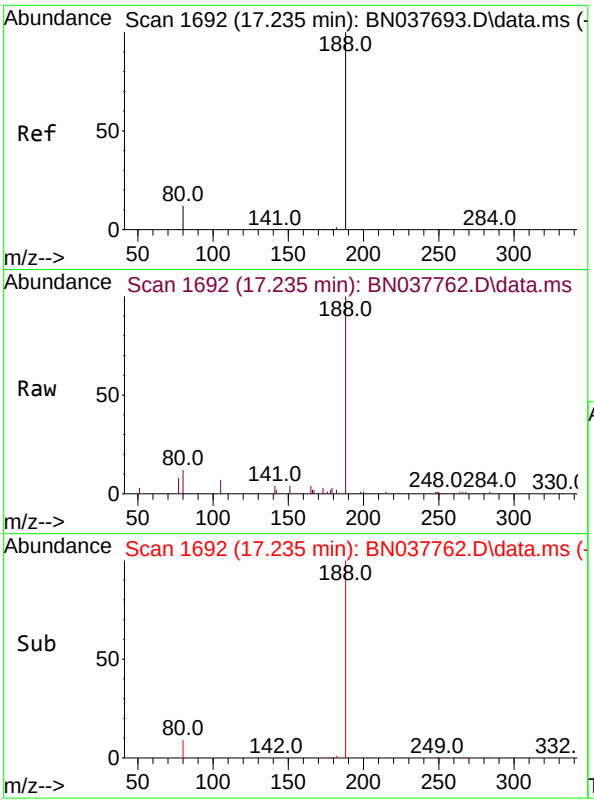




#15
2-Fluorobiphenyl
Concen: 0.314 ng
RT: 13.115 min Scan# 1329
Delta R.T. -0.000 min
Lab File: BN037762.D
Acq: 18 Sep 2025 04:34

Tgt Ion:172 Resp: 11793

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 172 | 100 | | |
| 171 | 34.8 | 28.6 | 43.0 |
| 170 | 23.1 | 19.8 | 29.8 |



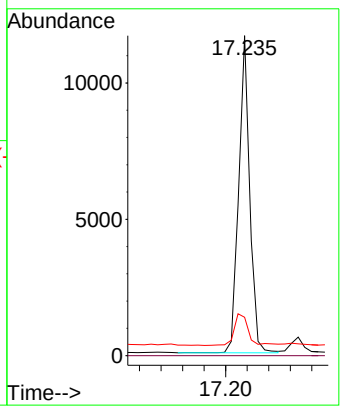


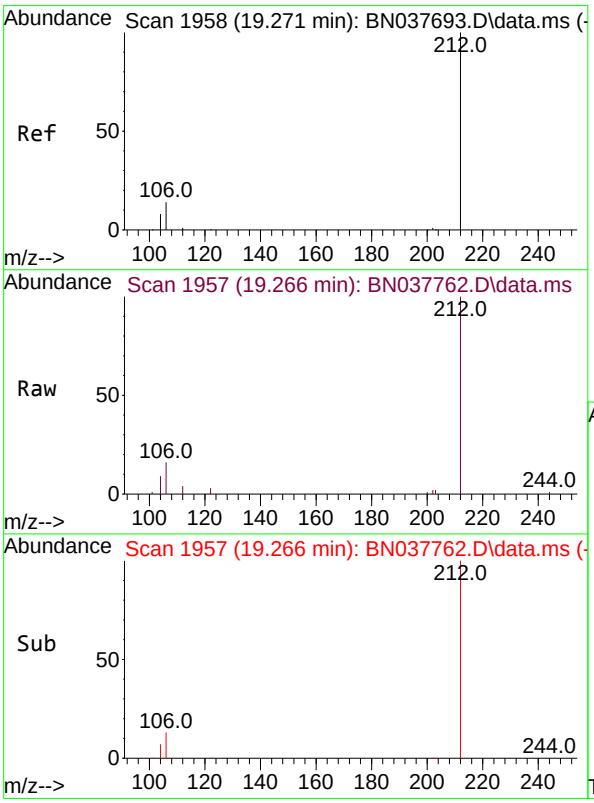

#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.235 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN037762.D
Acq: 18 Sep 2025 04:34

**Instrument :**
BNA_N
**ClientSampleId :**
RE123D1-20250909

Tgt Ion:188 Resp: 16581

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 188 | 100 | | |
| 94 | 0.0 | 0.0 | 0.0 |
| 80 | 12.0 | 10.6 | 15.8 |

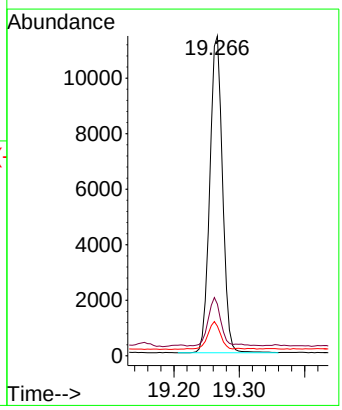


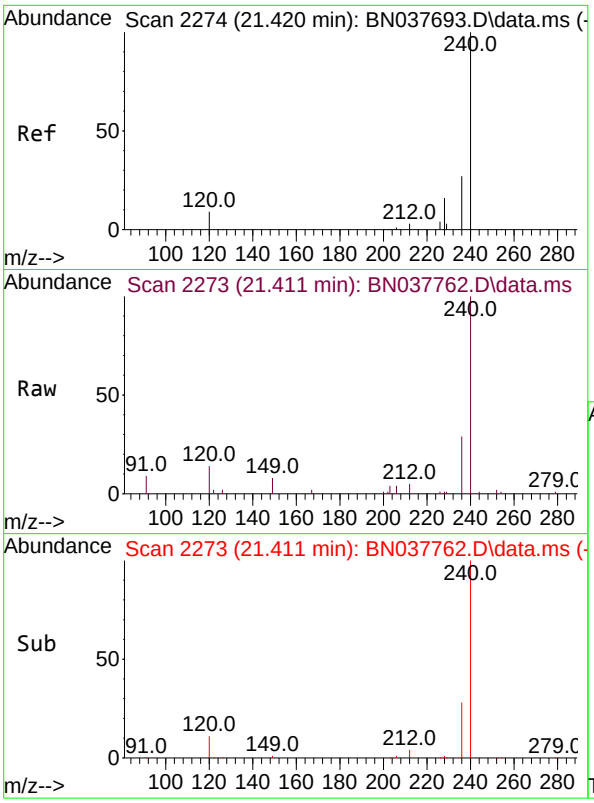




#27
Fluoranthene-d10
Concen: 0.370 ng
RT: 19.266 min Scan# 1957
Delta R.T. -0.005 min
Lab File: BN037762.D
Acq: 18 Sep 2025 04:34

Tgt Ion:212 Resp: 15400

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 212 | 100 | | |
| 106 | 15.6 | 12.2 | 18.2 |
| 104 | 8.8 | 6.9 | 10.3 |



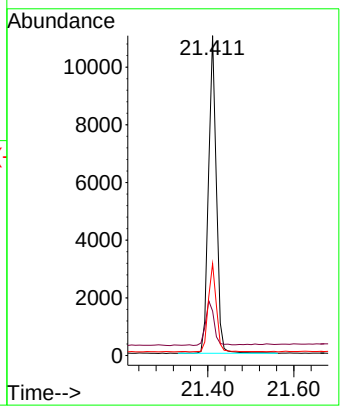


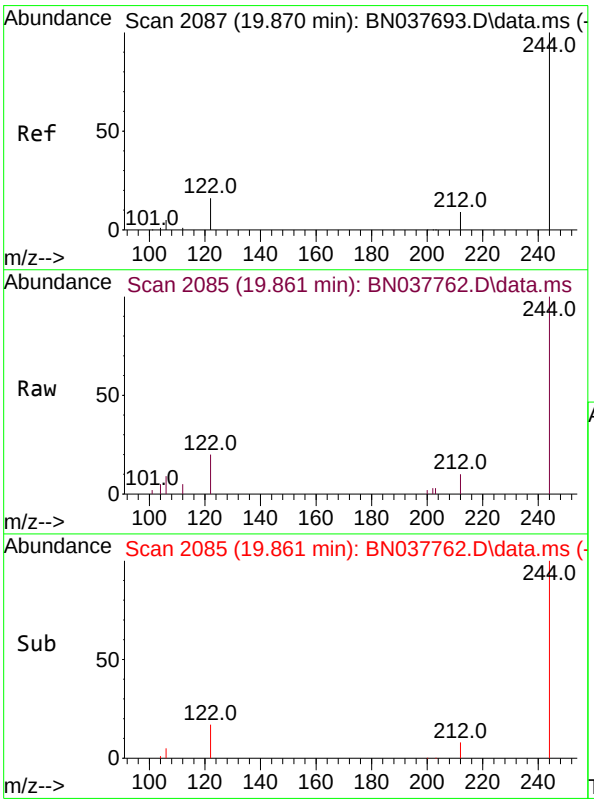

#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.411 min Scan# 2
Delta R.T. -0.009 min
Lab File: BN037762.D
Acq: 18 Sep 2025 04:34

**Instrument :**
BNA_N
**ClientSampleId :**
RE123D1-20250909

Tgt Ion:240 Resp: 13960

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 240 | 100 | | |
| 120 | 13.9 | 9.2 | 13.8# |
| 236 | 28.7 | 22.6 | 33.8 |

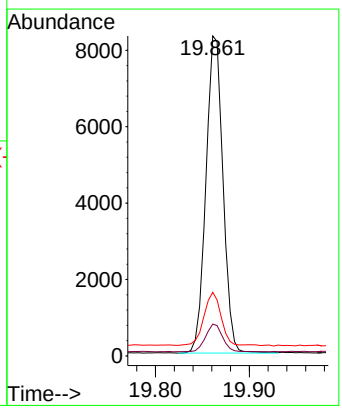


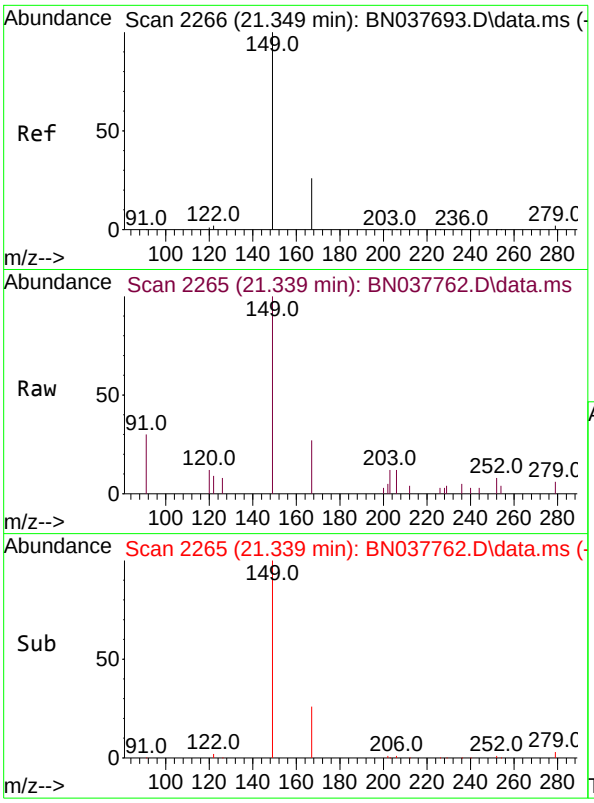




#31
Terphenyl-d14
Concen: 0.370 ng
RT: 19.861 min Scan# 2085
Delta R.T. -0.010 min
Lab File: BN037762.D
Acq: 18 Sep 2025 04:34

Tgt Ion:244 Resp: 10486

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 244 | 100 | | |
| 212 | 9.9 | 7.5 | 11.3 |
| 122 | 19.9 | 13.2 | 19.8# |



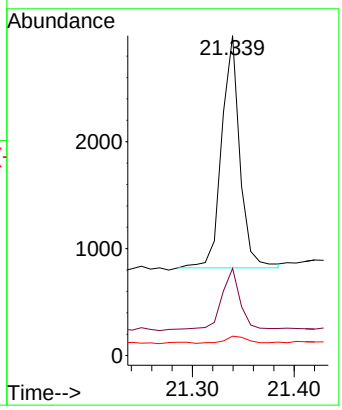


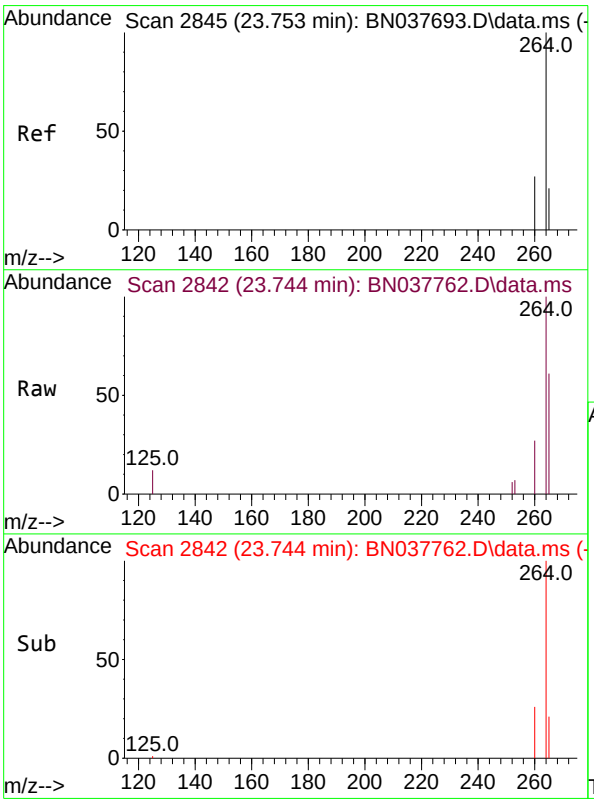

#34
Bis(2-ethylhexyl)phthalate
Concen: 0.187 ng
RT: 21.339 min Scan# 2
Delta R.T. -0.009 min
Lab File: BN037762.D
Acq: 18 Sep 2025 04:34

**Instrument :**
BNA_N
**ClientSampleId :**
RE123D1-20250909

Tgt Ion:149 Resp: 2706

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 149 | 100 | | |
| 167 | 25.7 | 20.8 | 31.2 |
| 279 | 3.7 | 3.3 | 4.9 |

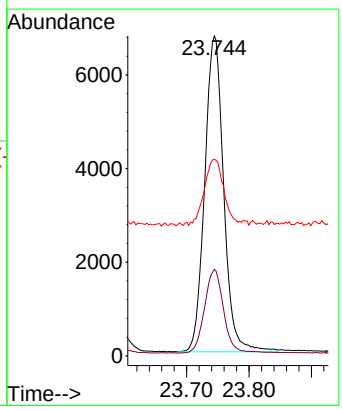



#35
Perylene-d12
Concen: 0.400 ng
RT: 23.744 min Scan# 2842
Delta R.T. -0.009 min
Lab File: BN037762.D
Acq: 18 Sep 2025 04:34

Tgt Ion:264 Resp: 14258

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 264 | 100 | | |
| 260 | 27.0 | 21.8 | 32.8 |
| 265 | 61.5 | 39.4 | 59.2# |



Raw Data: **BN037763.D**

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

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | AECOM Technical Services, Inc. | Date Collected: | 09/09/25 |
| Project: | NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258 | Date Received: | 09/12/25 |
| Client Sample ID: | RE123D3-20250909 | SDG No.: | Q3095 |
| Lab Sample ID: | Q3095-15 | Matrix: | Water |
| Analytical Method: | SW8270ESIM | % Solid: | 0 |
| Sample Wt/Vol: | 990 Units: mL | Final Vol: | 1000 uL |
| Soil Aliquot Vol: | uL | Test: | SVOC-SIMGroup1 |
| Extraction Type : | Decanted : N | Level : | LOW |
| Injection Volume : | GPC Factor : 1.0 | GPC Cleanup : | N PH : |
| Prep Method : | | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| BN037763.D | 1 | 09/15/25 10:15 | 09/18/25 05:10 | PB169692 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOD | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | | |
| 123-91-1 | 1,4-Dioxane | 0.20 | U | 0.070 | 0.20 | 0.20 | ug/L |
| **SURROGATES** | | | | | | | |
| 7297-45-2 | 2-Methylnaphthalene-d10 | 0.22 | | 30 - 150 | | 54% | SPK: 0.4 |
| 93951-69-0 | Fluoranthene-d10 | 0.25 | | 30 - 150 | | 63% | SPK: 0.4 |
| 4165-60-0 | Nitrobenzene-d5 | 0.23 | | 55 - 111 | | 58% | SPK: 0.4 |
| 321-60-8 | 2-Fluorobiphenyl | 0.23 | | 53 - 106 | | 58% | SPK: 0.4 |
| 1718-51-0 | Terphenyl-d14 | 0.28 | | 58 - 132 | | 70% | SPK: 0.4 |
| **INTERNAL STANDARDS** | | | | | | | |
| 3855-82-1 | 1,4-Dichlorobenzene-d4 | 7990 | 7.833 | | | | |
| 1146-65-2 | Naphthalene-d8 | 22100 | 10.637 | | | | |
| 15067-26-2 | Acenaphthene-d10 | 10300 | 14.484 | | | | |
| 1517-22-2 | Phenanthrene-d10 | 18300 | 17.235 | | | | |
| 1719-03-5 | Chrysene-d12 | 14400 | 21.411 | | | | |
| 1520-96-3 | Perylene-d12 | 14900 | 23.744 | | | | |

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\BN091725\
Data File : BN037763.D
Acq On : 18 Sep 2025 05:10
Operator : RC/JU
Sample : Q3095-15
Misc :
ALS Vial : 24 Sample Multiplier: 1

**Instrument :**
BNA_N
**ClientSampleId :**
RE123D3-20250909

Quant Time: Sep 18 05:35:27 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN091125.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Sep 11 14:20:01 2025
Response via : Initial Calibration

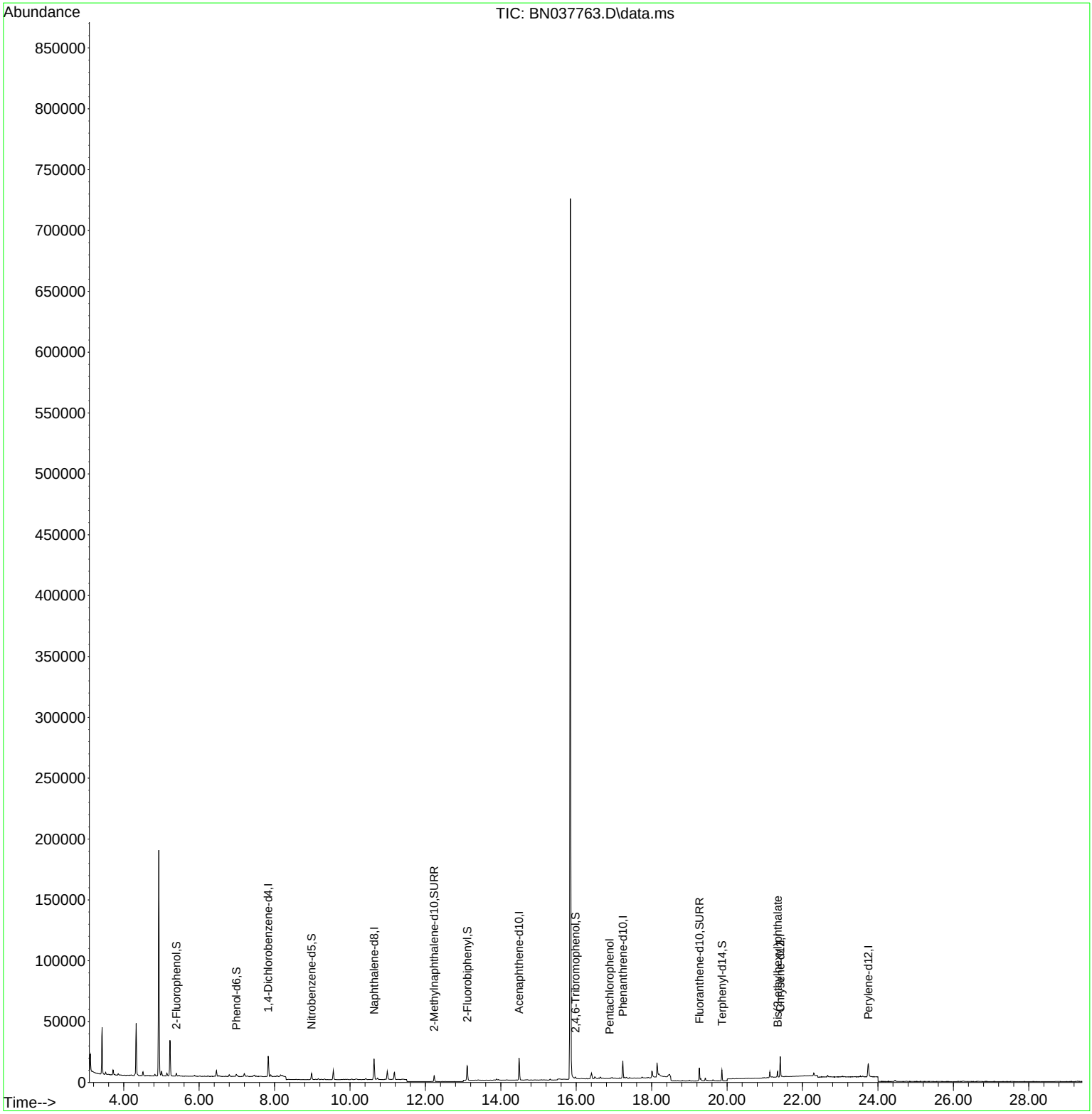
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) 1,4-Dichlorobenzene-d4 | 7.833 | 152 | 7985 | 0.400 | ng | 0.00 |
| 7) Naphthalene-d8 | 10.637 | 136 | 22130 | 0.400 | ng | -0.01 |
| 13) Acenaphthene-d10 | 14.484 | 164 | 10297 | 0.400 | ng | -0.01 |
| 19) Phenanthrene-d10 | 17.235 | 188 | 18311 | 0.400 | ng | # 0.00 |
| 29) Chrysene-d12 | 21.411 | 240 | 14395 | 0.400 | ng | 0.00 |
| 35) Perylene-d12 | 23.744 | 264 | 14910 | 0.400 | ng | # 0.00 |
| System Monitoring Compounds | | | | | | |
| 4) 2-Fluorophenol | 5.399 | 112 | 1925 | 0.105 | ng | 0.00 |
| 5) Phenol-d6 | 6.988 | 99 | 1623 | 0.068 | ng | 0.00 |
| 8) Nitrobenzene-d5 | 8.982 | 82 | 3752 | 0.232 | ng | -0.01 |
| 11) 2-Methylnaphthalene-d10 | 12.233 | 152 | 6365 | 0.217 | ng | -0.01 |
| 14) 2,4,6-Tribromophenol | 15.982 | 330 | 707 | 0.263 | ng | 0.00 |
| 15) 2-Fluorobiphenyl | 13.115 | 172 | 9995 | 0.232 | ng | 0.00 |
| 27) Fluoranthene-d10 | 19.266 | 212 | 11583 | 0.252 | ng | 0.00 |
| 31) Terphenyl-d14 | 19.861 | 244 | 8243 | 0.282 | ng | 0.00 |
| Target Compounds | | | | | | Qvalue |
| 24) Pentachlorophenol | 16.888 | 266 | 157 | 0.039 | ng | # 86 |
| 34) Bis(2-ethylhexyl)phtha... | 21.340 | 149 | 4799 | 0.322 | ng | 99 |

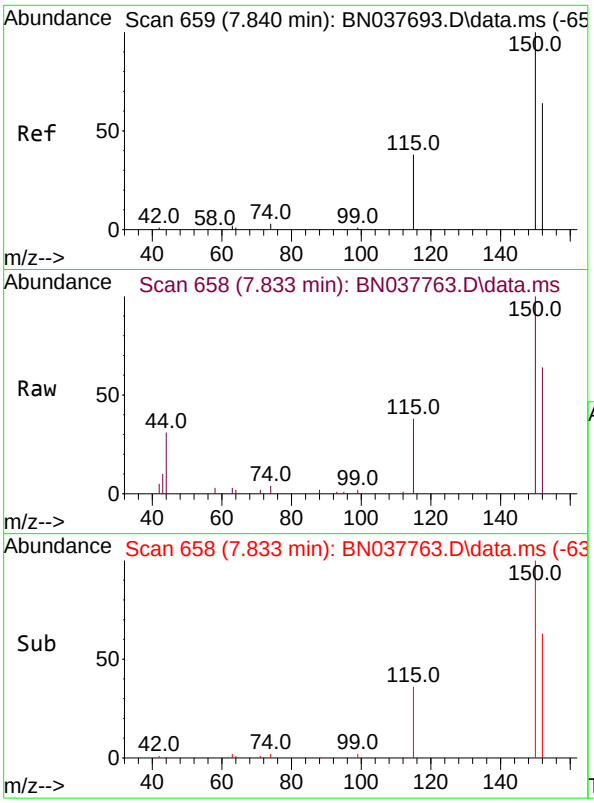
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN091725\
Data File : BN037763.D
Acq On : 18 Sep 2025 05:10
Operator : RC/JU
Sample : Q3095-15
Misc :
ALS Vial : 24 Sample Multiplier: 1

**Instrument :**
BNA_N
**ClientSampleId :**
RE123D3-20250909

Quant Time: Sep 18 05:35:27 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN091125.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Sep 11 14:20:01 2025
Response via : Initial Calibration



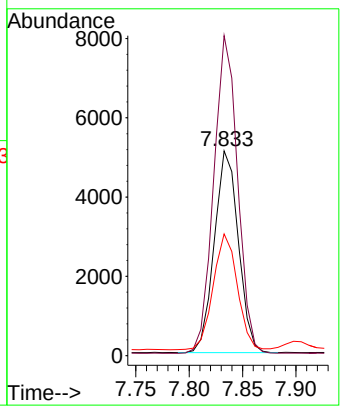


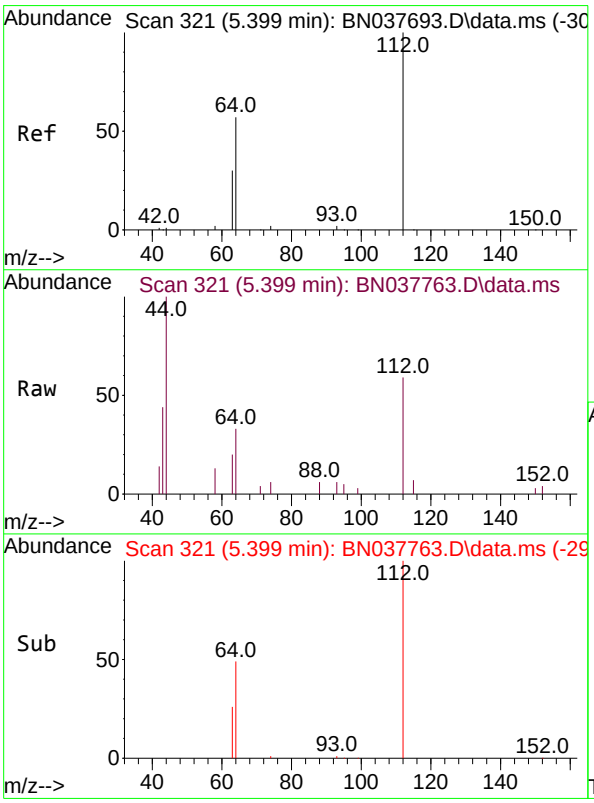

#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.833 min Scan# 6
Delta R.T. -0.007 min
Lab File: BN037763.D
Acq: 18 Sep 2025 05:10

**Instrument :**
BNA_N
**ClientSampleId :**
RE123D3-20250909

Tgt Ion:152 Resp: 7985

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 150 | 156.3 | 124.5 | 186.7 |
| 115 | 59.4 | 49.2 | 73.8 |

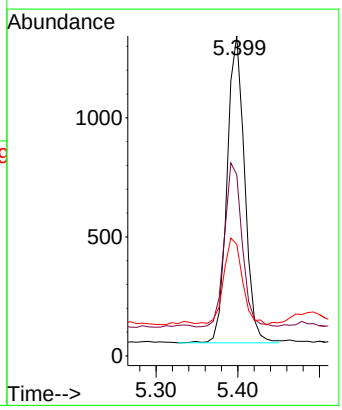


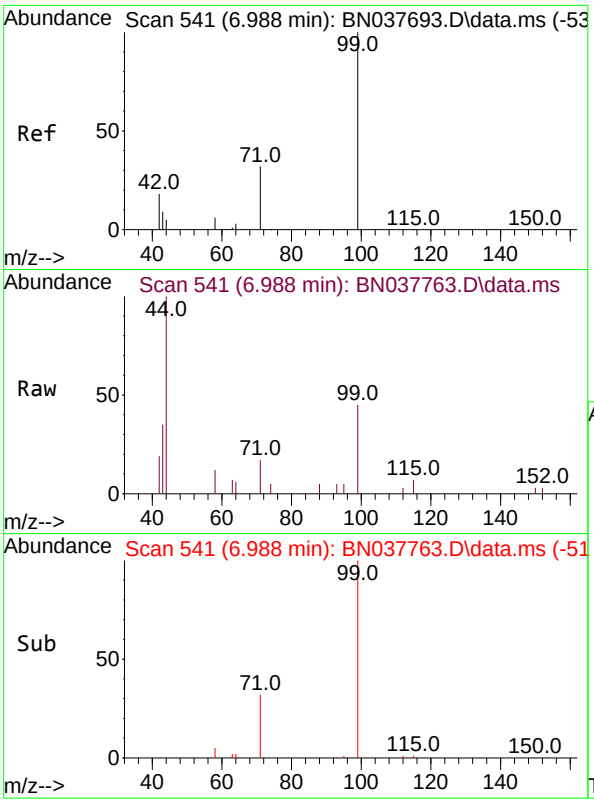




#4
2-Fluorophenol
Concen: 0.105 ng
RT: 5.399 min Scan# 321
Delta R.T. -0.000 min
Lab File: BN037763.D
Acq: 18 Sep 2025 05:10

Tgt Ion:112 Resp: 1925

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 112 | 100 | | |
| 64 | 53.8 | 44.9 | 67.3 |
| 63 | 30.4 | 24.7 | 37.1 |



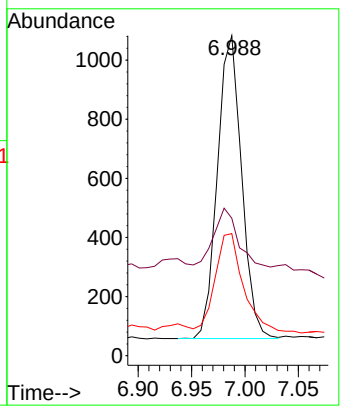


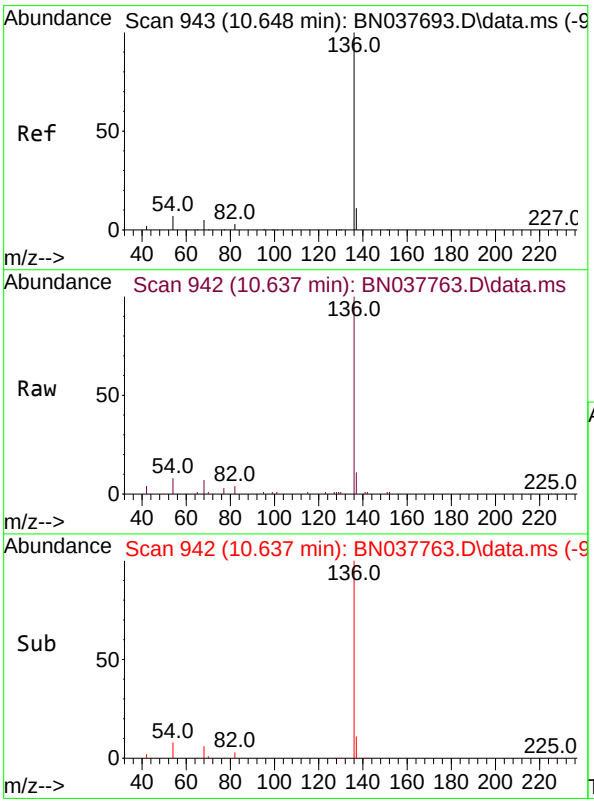

#5
Phenol-d6
Concen: 0.068 ng
RT: 6.988 min Scan# 54
Delta R.T. -0.000 min
Lab File: BN037763.D
Acq: 18 Sep 2025 05:10

**Instrument :**
BNA_N
**ClientSampleId :**
RE123D3-20250909

Tgt Ion: 99 Resp: 1623

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 99 | 100 | | |
| 42 | 33.7 | 16.6 | 24.8# |
| 71 | 38.8 | 26.7 | 40.1 |

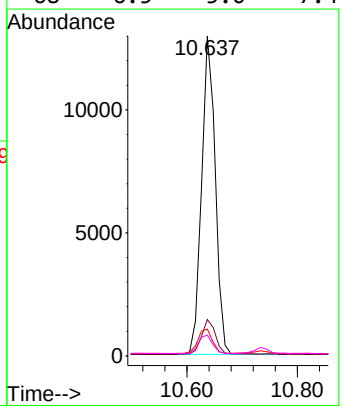


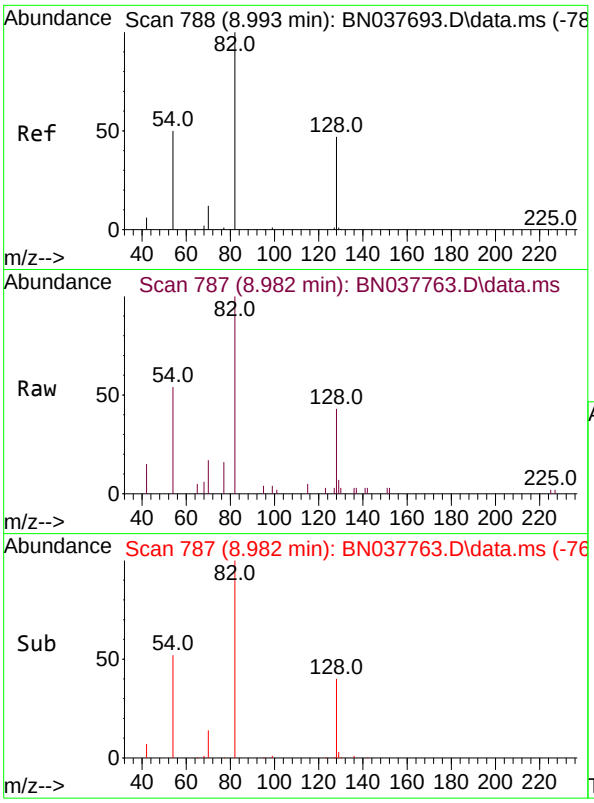




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.637 min Scan# 942
Delta R.T. -0.011 min
Lab File: BN037763.D
Acq: 18 Sep 2025 05:10

Tgt Ion:136 Resp: 22130

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 136 | 100 | | |
| 137 | 11.4 | 9.1 | 13.7 |
| 54 | 8.4 | 6.3 | 9.5 |
| 68 | 6.5 | 5.0 | 7.4 |



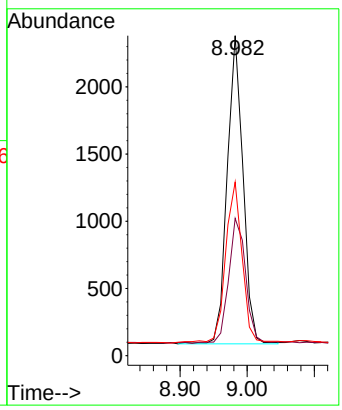


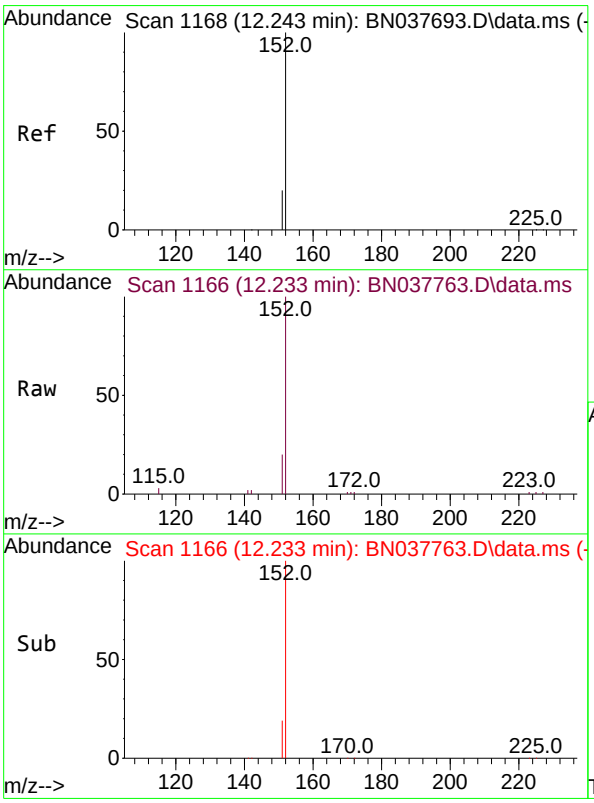

#8
Nitrobenzene-d5
Concen: 0.232 ng
RT: 8.982 min Scan# 78
Delta R.T. -0.011 min
Lab File: BN037763.D
Acq: 18 Sep 2025 05:10

**Instrument :**
BNA_N
**ClientSampleId :**
RE123D3-20250909

Tgt Ion: 82 Resp: 3752

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 82 | 100 | | |
| 128 | 42.9 | 38.3 | 57.5 |
| 54 | 54.2 | 41.4 | 62.2 |

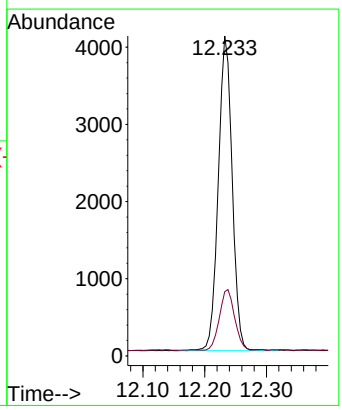


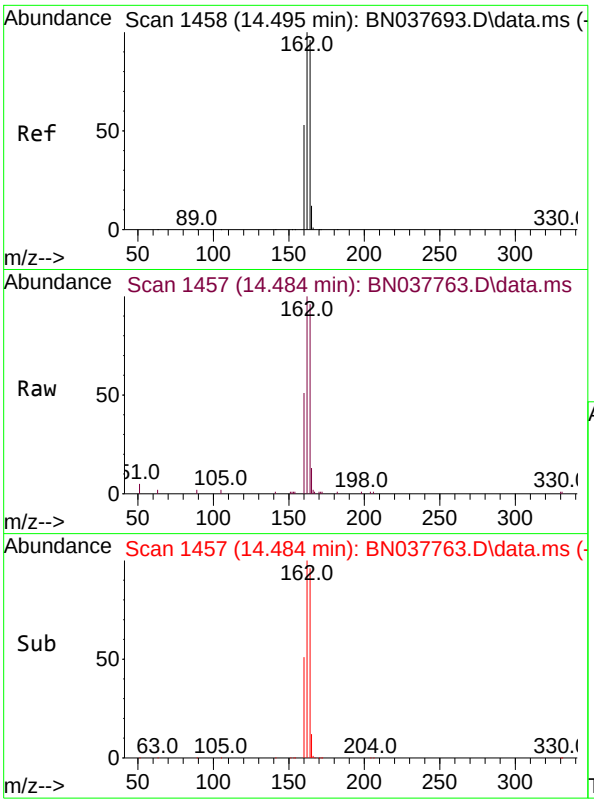




#11
2-Methylnaphthalene-d10
Concen: 0.217 ng
RT: 12.233 min Scan# 1166
Delta R.T. -0.010 min
Lab File: BN037763.D
Acq: 18 Sep 2025 05:10

Tgt Ion:152 Resp: 6365

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



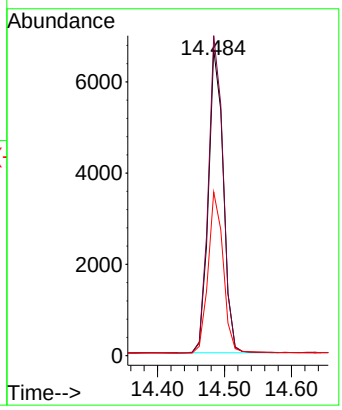


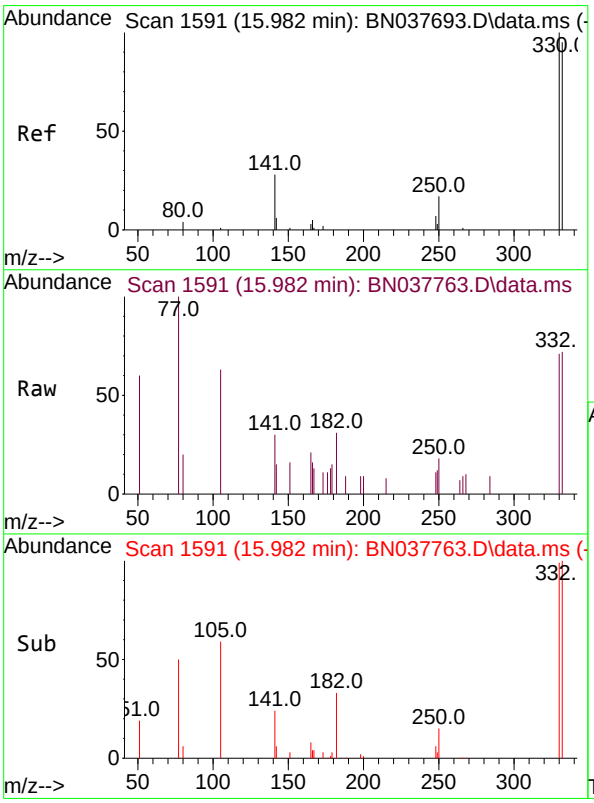

#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.484 min Scan# 14
Delta R.T. -0.011 min
Lab File: BN037763.D
Acq: 18 Sep 2025 05:10

**Instrument :**
BNA_N
**ClientSampleId :**
RE123D3-20250909

Tgt Ion:164 Resp: 10297

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 164 | 100 | | |
| 162 | 104.5 | 83.1 | 124.7 |
| 160 | 53.4 | 44.3 | 66.5 |

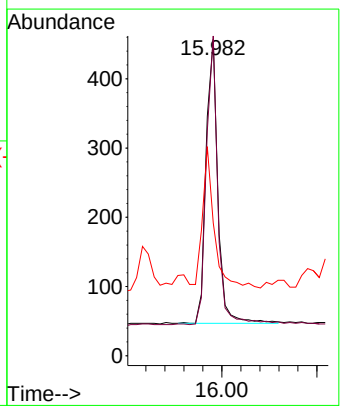


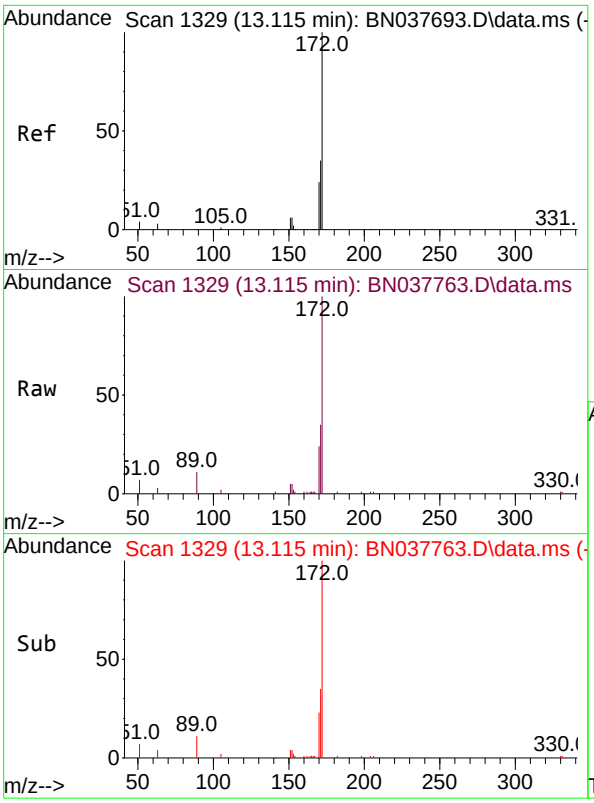




#14
2,4,6-Tribromophenol
Concen: 0.263 ng
RT: 15.982 min Scan# 1591
Delta R.T. -0.000 min
Lab File: BN037763.D
Acq: 18 Sep 2025 05:10

Tgt Ion:330 Resp: 707

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 330 | 100 | | |
| 332 | 98.4 | 75.3 | 112.9 |
| 141 | 50.2 | 35.0 | 52.4 |



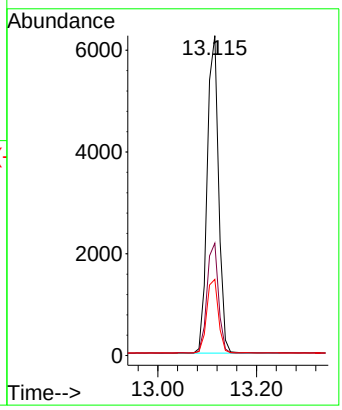


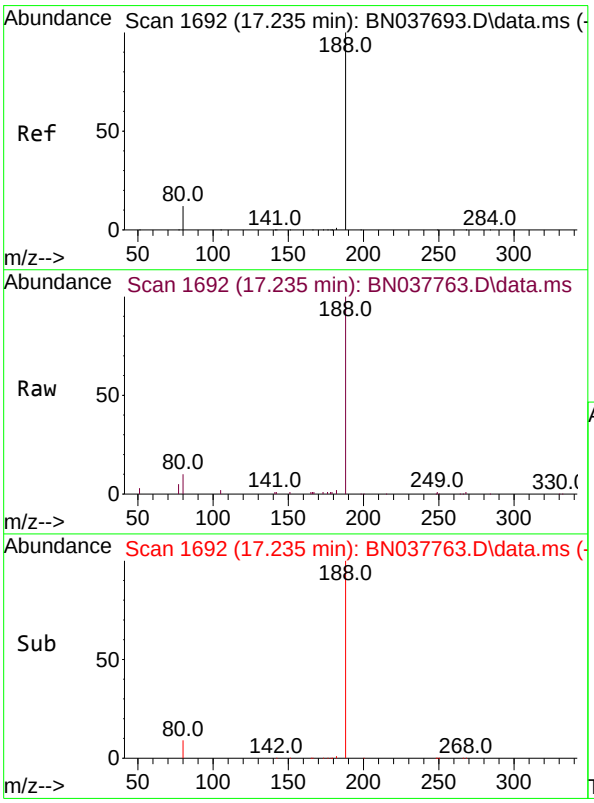

#15
2-Fluorobiphenyl
Concen: 0.232 ng
RT: 13.115 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN037763.D
Acq: 18 Sep 2025 05:10

**Instrument :**
BNA_N
**ClientSampleId :**
RE123D3-20250909

Tgt Ion:172 Resp: 9995

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 172 | 100 | | |
| 171 | 35.1 | 28.6 | 43.0 |
| 170 | 23.8 | 19.8 | 29.8 |

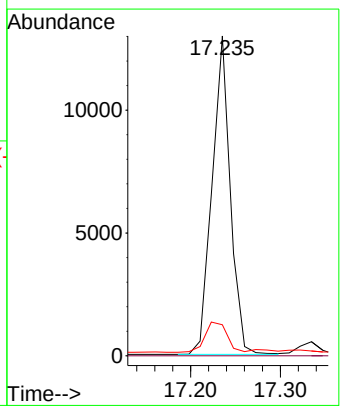


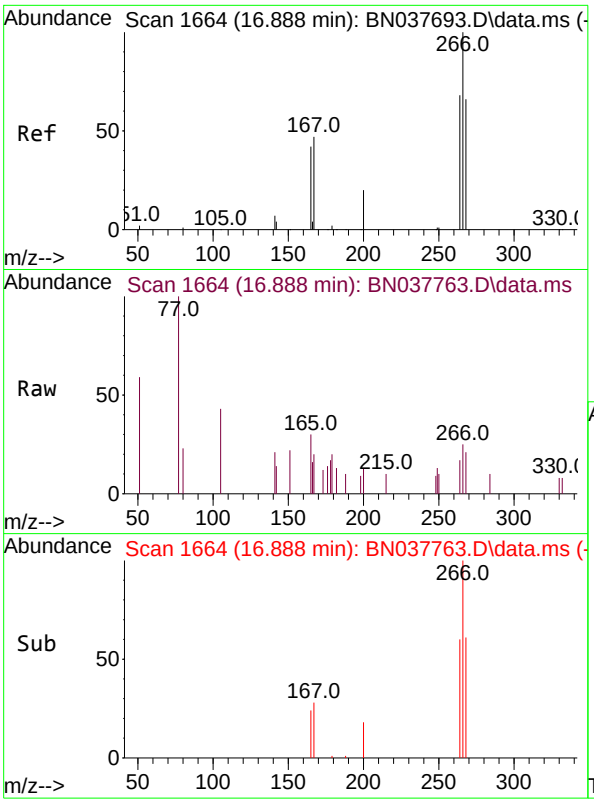




#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.235 min Scan# 1692
Delta R.T. -0.000 min
Lab File: BN037763.D
Acq: 18 Sep 2025 05:10

Tgt Ion:188 Resp: 18311

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 188 | 100 | | |
| 94 | 0.0 | 0.0 | 0.0 |
| 80 | 9.7 | 10.6 | 15.8# |



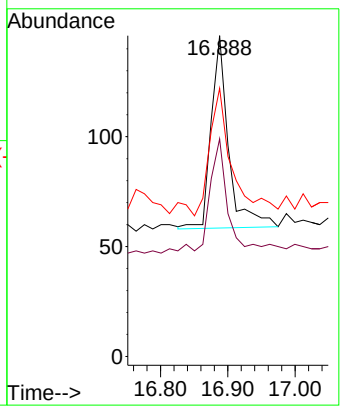


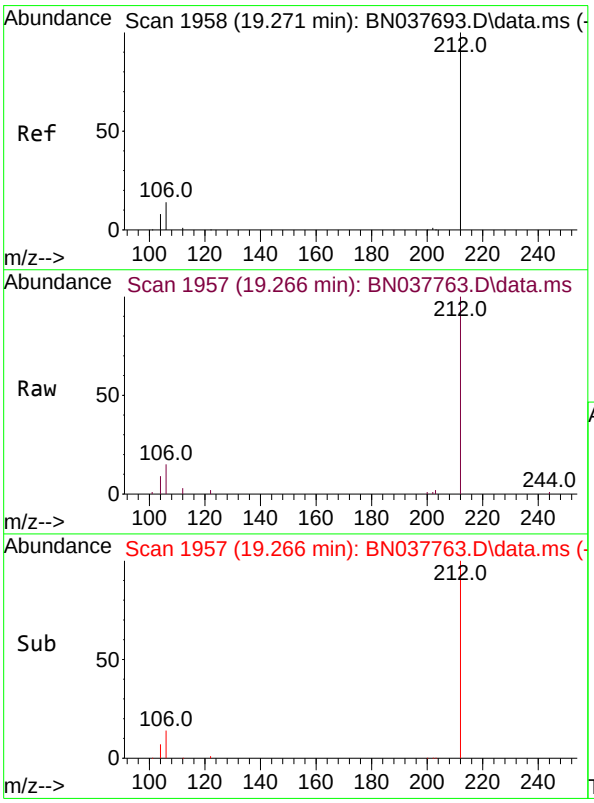

#24
Pentachlorophenol
Concen: 0.039 ng
RT: 16.888 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN037763.D
Acq: 18 Sep 2025 05:10

**Instrument :**
BNA_N
**ClientSampleId :**
RE123D3-20250909

Tgt Ion:266 Resp: 157

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 266 | 100 | | |
| 264 | 67.5 | 51.6 | 77.4 |
| 268 | 85.4 | 53.2 | 79.8# |

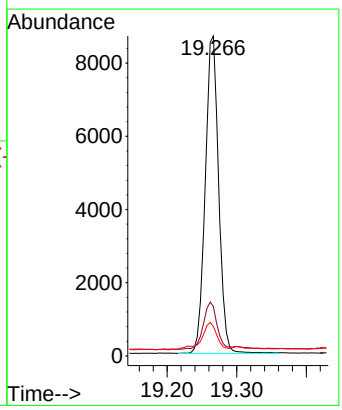


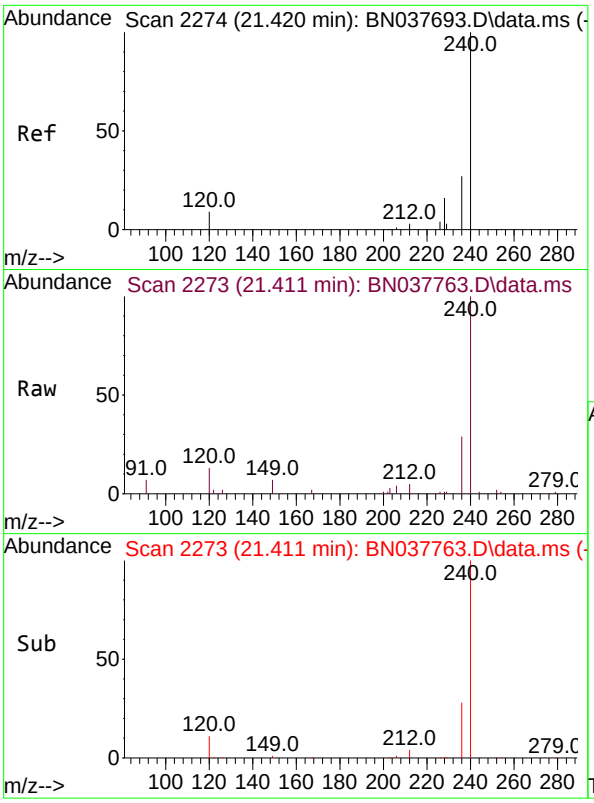




#27
Fluoranthene-d10
Concen: 0.252 ng
RT: 19.266 min Scan# 1957
Delta R.T. -0.005 min
Lab File: BN037763.D
Acq: 18 Sep 2025 05:10

Tgt Ion:212 Resp: 11583

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 212 | 100 | | |
| 106 | 15.2 | 12.2 | 18.2 |
| 104 | 9.8 | 6.9 | 10.3 |



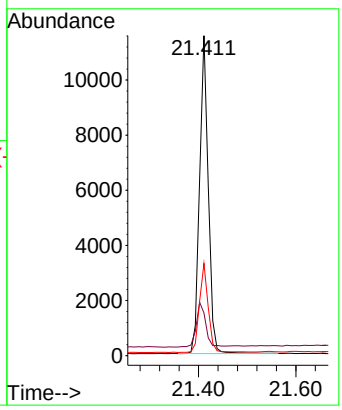


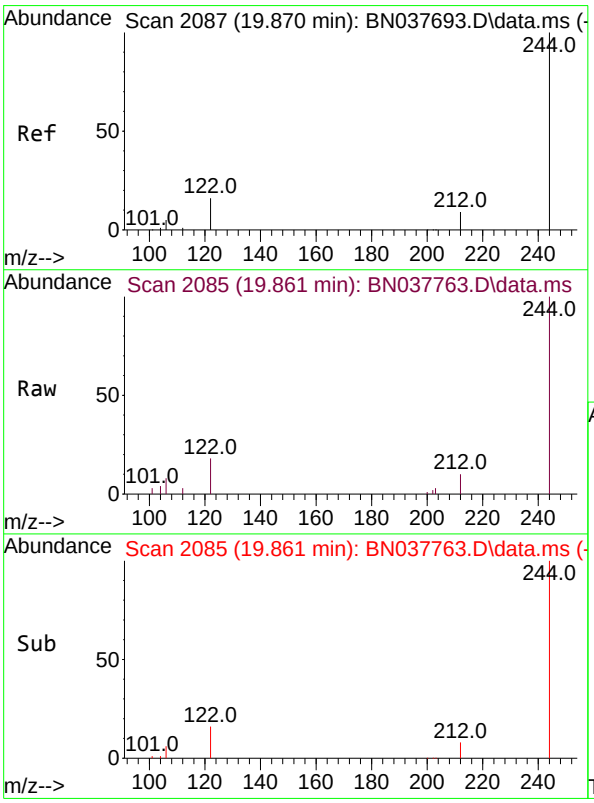

#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.411 min Scan# 2
Delta R.T. -0.009 min
Lab File: BN037763.D
Acq: 18 Sep 2025 05:10

**Instrument :**
BNA_N
**ClientSampleId :**
RE123D3-20250909

Tgt Ion:240 Resp: 14395

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 240 | 100 | | |
| 120 | 13.4 | 9.2 | 13.8 |
| 236 | 28.8 | 22.6 | 33.8 |

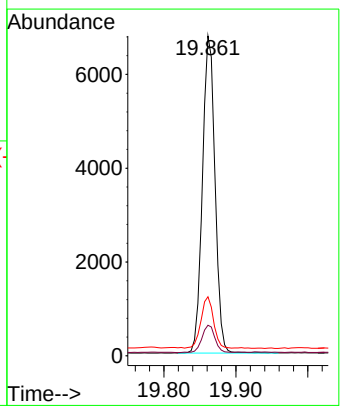


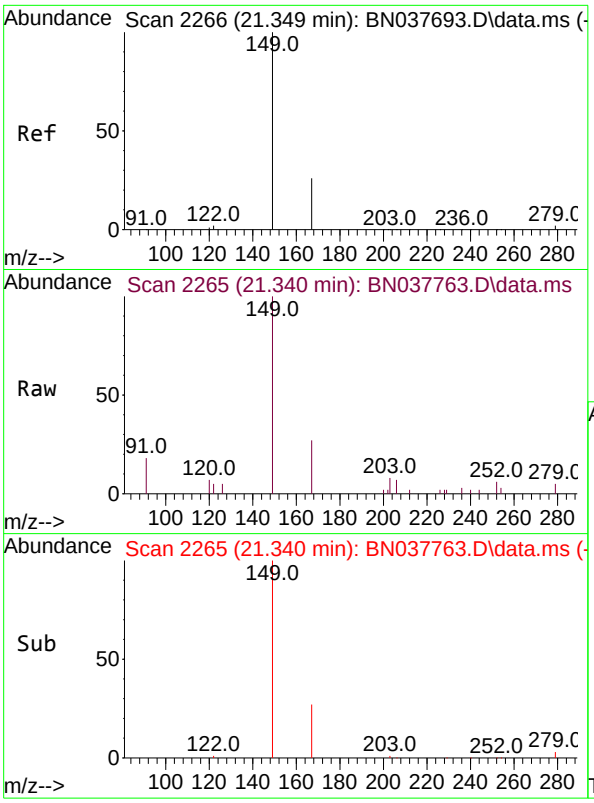




#31
Terphenyl-d14
Concen: 0.282 ng
RT: 19.861 min Scan# 2085
Delta R.T. -0.009 min
Lab File: BN037763.D
Acq: 18 Sep 2025 05:10

Tgt Ion:244 Resp: 8243

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 244 | 100 | | |
| 212 | 9.6 | 7.5 | 11.3 |
| 122 | 18.5 | 13.2 | 19.8 |



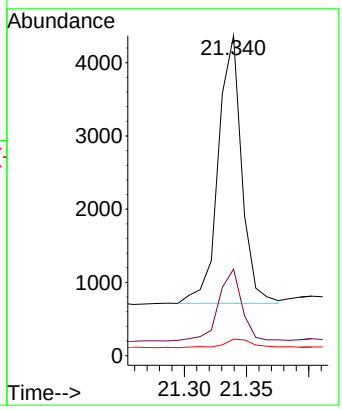


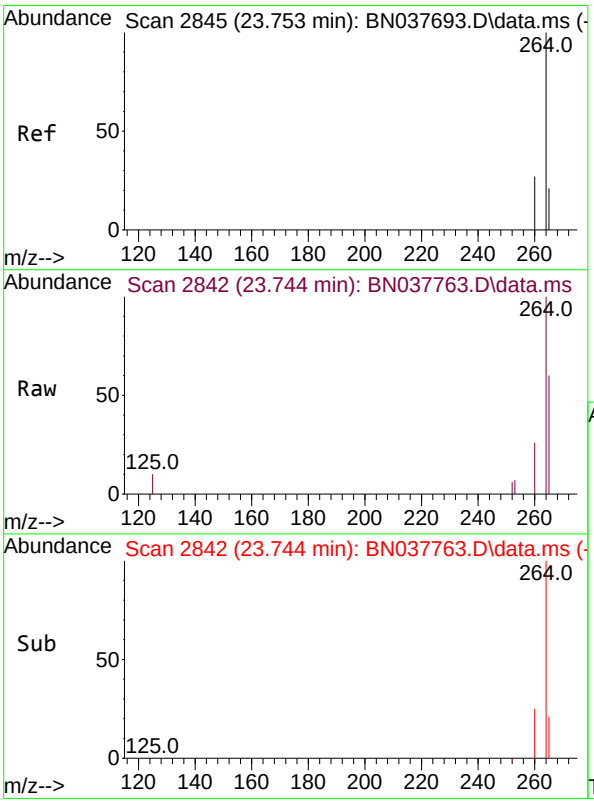

#34
Bis(2-ethylhexyl)phthalate
Concen: 0.322 ng
RT: 21.340 min Scan# 2
Delta R.T. -0.009 min
Lab File: BN037763.D
Acq: 18 Sep 2025 05:10

**Instrument :**
BNA_N
**ClientSampleId :**
RE123D3-20250909

Tgt Ion:149 Resp: 4799

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 149 | 100 | | |
| 167 | 26.8 | 20.8 | 31.2 |
| 279 | 4.3 | 3.3 | 4.9 |

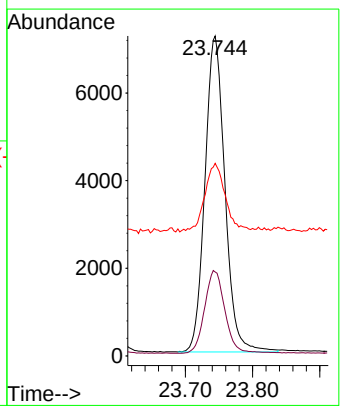



#35
Perylene-d12
Concen: 0.400 ng
RT: 23.744 min Scan# 2842
Delta R.T. -0.009 min
Lab File: BN037763.D
Acq: 18 Sep 2025 05:10

Tgt Ion:264 Resp: 14910

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 264 | 100 | | |
| 260 | 26.2 | 21.8 | 32.8 |
| 265 | 60.2 | 39.4 | 59.2# |



Raw Data: **BN037764.D**

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

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | AECOM Technical Services, Inc. | Date Collected: | 09/09/25 |
| Project: | NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258 | Date Received: | 09/12/25 |
| Client Sample ID: | MW305D-20250909 | SDG No.: | Q3095 |
| Lab Sample ID: | Q3095-16 | Matrix: | Water |
| Analytical Method: | SW8270ESIM | % Solid: | 0 |
| Sample Wt/Vol: | 1000 Units: mL | Final Vol: | 1000 uL |
| Soil Aliquot Vol: | uL | Test: | SVOC-SIMGroup1 |
| Extraction Type : | Decanted : N | Level : | LOW |
| Injection Volume : | GPC Factor : 1.0 | GPC Cleanup : | N PH : |
| Prep Method : | | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| BN037764.D | 1 | 09/15/25 10:15 | 09/18/25 05:46 | PB169692 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOD | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | | |
| 123-91-1 | 1,4-Dioxane | 0.53 | | 0.070 | 0.20 | 0.20 | ug/L |
| **SURROGATES** | | | | | | | |
| 7297-45-2 | 2-Methylnaphthalene-d10 | 0.29 | | 30 - 150 | | 72% | SPK: 0.4 |
| 93951-69-0 | Fluoranthene-d10 | 0.38 | | 30 - 150 | | 96% | SPK: 0.4 |
| 4165-60-0 | Nitrobenzene-d5 | 0.31 | | 55 - 111 | | 79% | SPK: 0.4 |
| 321-60-8 | 2-Fluorobiphenyl | 0.31 | | 53 - 106 | | 77% | SPK: 0.4 |
| 1718-51-0 | Terphenyl-d14 | 0.39 | | 58 - 132 | | 97% | SPK: 0.4 |
| **INTERNAL STANDARDS** | | | | | | | |
| 3855-82-1 | 1,4-Dichlorobenzene-d4 | 7660 | 7.833 | | | | |
| 1146-65-2 | Naphthalene-d8 | 21200 | 10.637 | | | | |
| 15067-26-2 | Acenaphthene-d10 | 9850 | 14.484 | | | | |
| 1517-22-2 | Phenanthrene-d10 | 18500 | 17.235 | | | | |
| 1719-03-5 | Chrysene-d12 | 16400 | 21.411 | | | | |
| 1520-96-3 | Perylene-d12 | 17100 | 23.744 | | | | |

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

Sample Results: **BN037764.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN091725\
Data File : BN037764.D
Acq On : 18 Sep 2025 05:46
Operator : RC/JU
Sample : Q3095-16
Misc :
ALS Vial : 25 Sample Multiplier: 1

**Instrument :**
BNA_N
**ClientSampleId :**
MW305D-20250909

Quant Time: Sep 18 07:54:43 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN091125.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Sep 11 14:20:01 2025
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) 1,4-Dichlorobenzene-d4 | 7.833 | 152 | 7657 | 0.400 | ng | 0.00 |
| 7) Naphthalene-d8 | 10.637 | 136 | 21168 | 0.400 | ng | -0.01 |
| 13) Acenaphthene-d10 | 14.484 | 164 | 9850 | 0.400 | ng | -0.01 |
| 19) Phenanthrene-d10 | 17.235 | 188 | 18466 | 0.400 | ng | # 0.00 |
| 29) Chrysene-d12 | 21.411 | 240 | 16400 | 0.400 | ng | 0.00 |
| 35) Perylene-d12 | 23.744 | 264 | 17053 | 0.400 | ng | 0.00 |
| System Monitoring Compounds | | | | | | |
| 4) 2-Fluorophenol | 5.399 | 112 | 1748 | 0.099 | ng | 0.00 |
| 5) Phenol-d6 | 6.988 | 99 | 1348 | 0.059 | ng | 0.00 |
| 8) Nitrobenzene-d5 | 8.982 | 82 | 4861 | 0.314 | ng | -0.01 |
| 11) 2-Methylnaphthalene-d10 | 12.233 | 152 | 8118 | 0.289 | ng | -0.01 |
| 14) 2,4,6-Tribromophenol | 15.982 | 330 | 816 | 0.318 | ng | 0.00 |
| 15) 2-Fluorobiphenyl | 13.115 | 172 | 12714 | 0.309 | ng | 0.00 |
| 27) Fluoranthene-d10 | 19.266 | 212 | 17805 | 0.384 | ng | 0.00 |
| 31) Terphenyl-d14 | 19.861 | 244 | 12957 | 0.389 | ng | 0.00 |
| Target Compounds | | | | | | Qvalue |
| 2) 1,4-Dioxane | 3.297 | 88 | 4227 | 0.530 | ng | # 93 |
| 34) Bis(2-ethylhexyl)phtha... | 21.340 | 149 | 4749 | 0.280 | ng | # 99 |

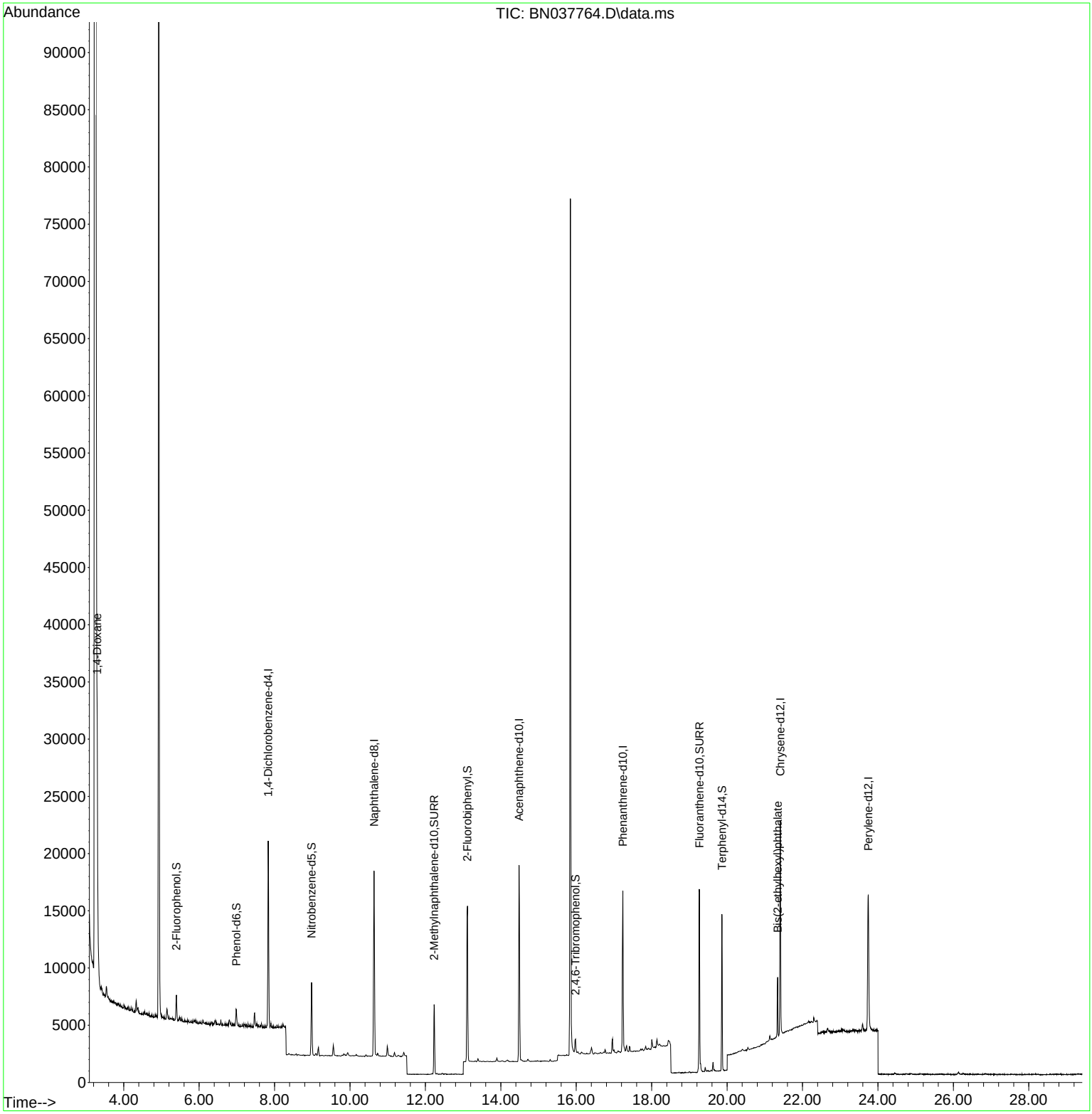
(#) = qualifier out of range (m) = manual integration (+) = signals summed

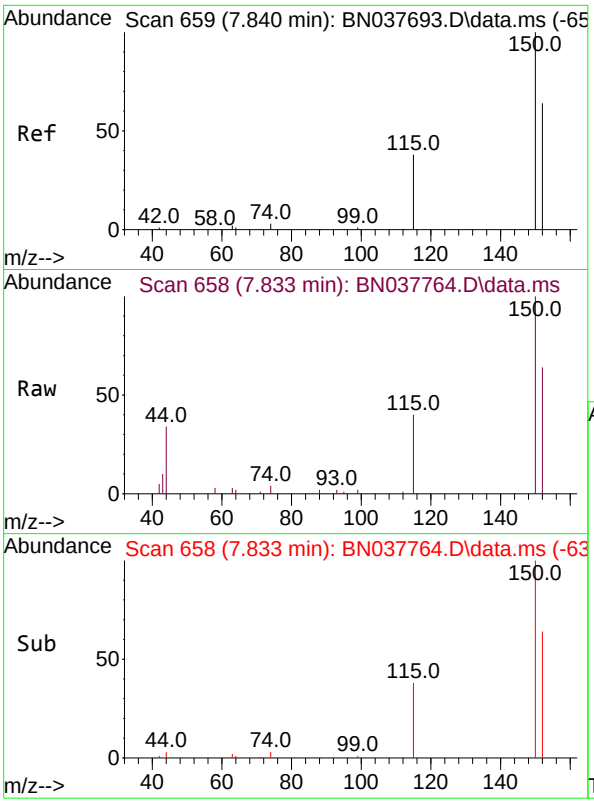
Sample Results: **BN037764.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN091725\
Data File : BN037764.D
Acq On : 18 Sep 2025 05:46
Operator : RC/JU
Sample : Q3095-16
Misc :
ALS Vial : 25 Sample Multiplier: 1

**Instrument :**
BNA_N
**ClientSampleId :**
MW305D-20250909

Quant Time: Sep 18 07:54:43 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN091125.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Sep 11 14:20:01 2025
Response via : Initial Calibration



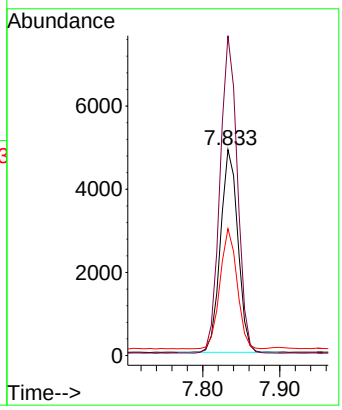


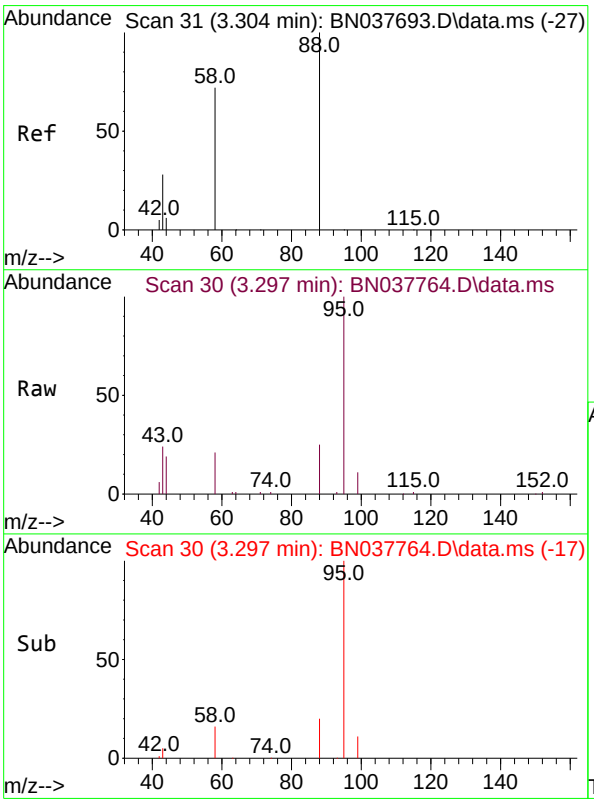

#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.833 min Scan# 6
Delta R.T. -0.007 min
Lab File: BN037764.D
Acq: 18 Sep 2025 05:46

**Instrument :**
BNA_N
**ClientSampleId :**
MW305D-20250909

Tgt Ion:152 Resp: 7657

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 150 | 155.3 | 124.5 | 186.7 |
| 115 | 61.6 | 49.2 | 73.8 |

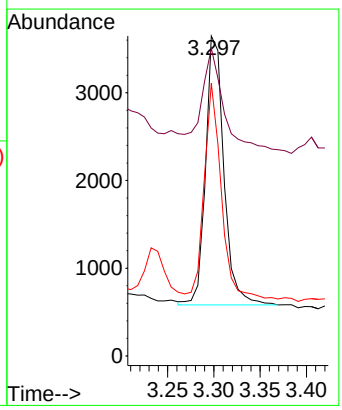


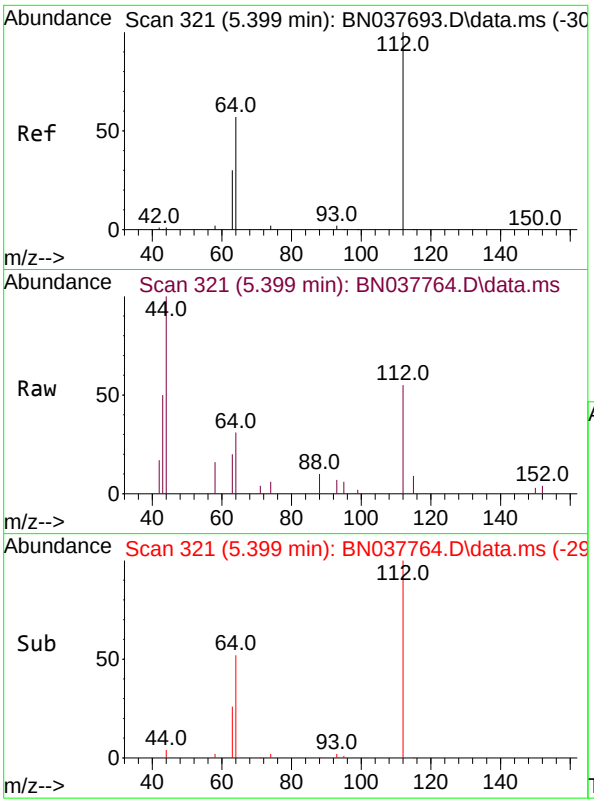




#2
1,4-Dioxane
Concen: 0.530 ng
RT: 3.297 min Scan# 30
Delta R.T. -0.007 min
Lab File: BN037764.D
Acq: 18 Sep 2025 05:46

Tgt Ion: 88 Resp: 4227

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 88 | 100 | | |
| 43 | 43.3 | 26.8 | 40.2# |
| 58 | 74.8 | 61.9 | 92.9 |



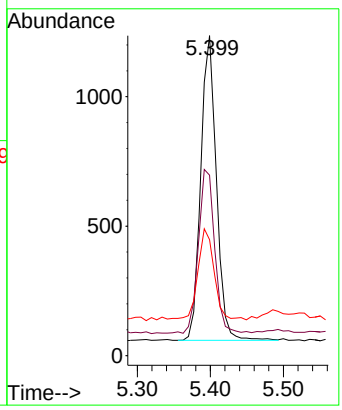


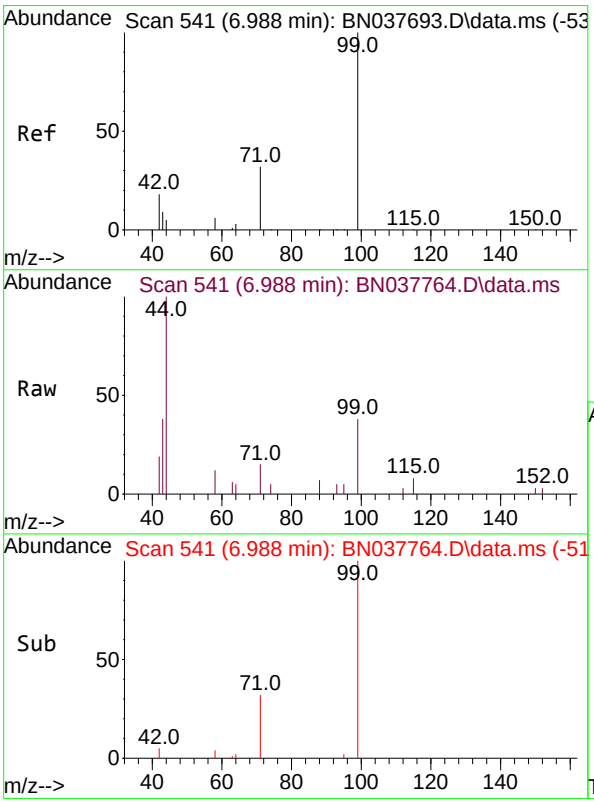

#4
2-Fluorophenol
Concen: 0.099 ng
RT: 5.399 min Scan# 3
Delta R.T. -0.000 min
Lab File: BN037764.D
Acq: 18 Sep 2025 05:46

**Instrument :**
BNA_N
**ClientSampleId :**
MW305D-20250909

Tgt Ion:112 Resp: 1748

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 112 | 100 | | |
| 64 | 55.8 | 44.9 | 67.3 |
| 63 | 30.7 | 24.7 | 37.1 |

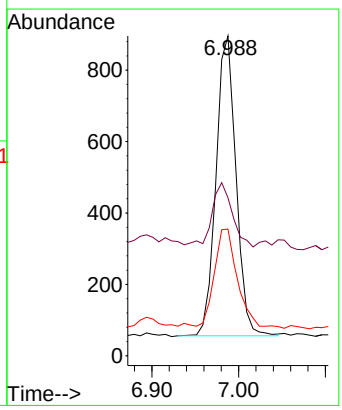


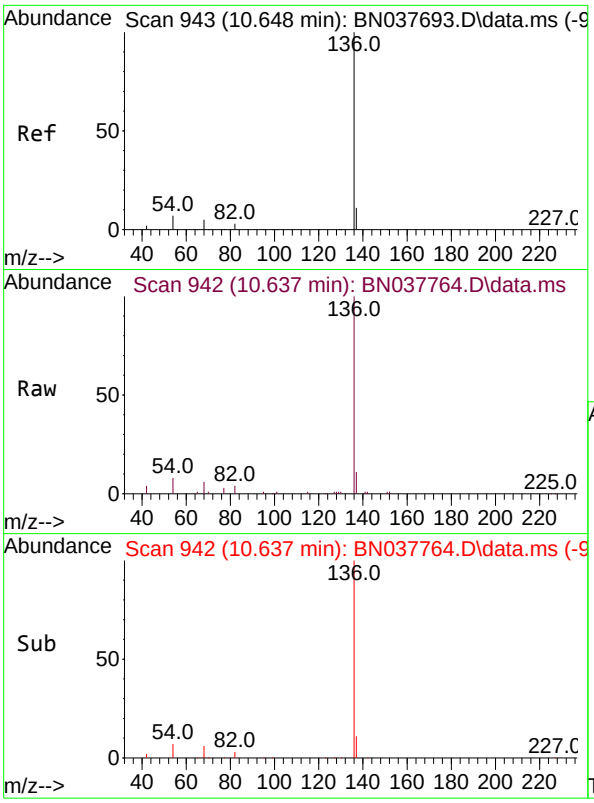




#5
Phenol-d6
Concen: 0.059 ng
RT: 6.988 min Scan# 541
Delta R.T. -0.000 min
Lab File: BN037764.D
Acq: 18 Sep 2025 05:46

Tgt Ion: 99 Resp: 1348

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 99 | 100 | | |
| 42 | 21.4 | 16.6 | 24.8 |
| 71 | 38.6 | 26.7 | 40.1 |



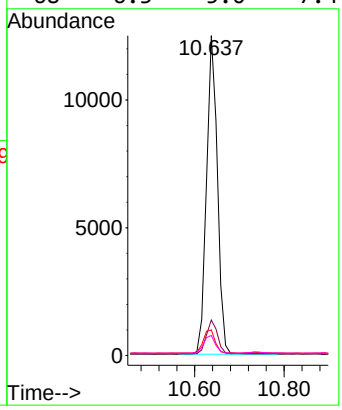


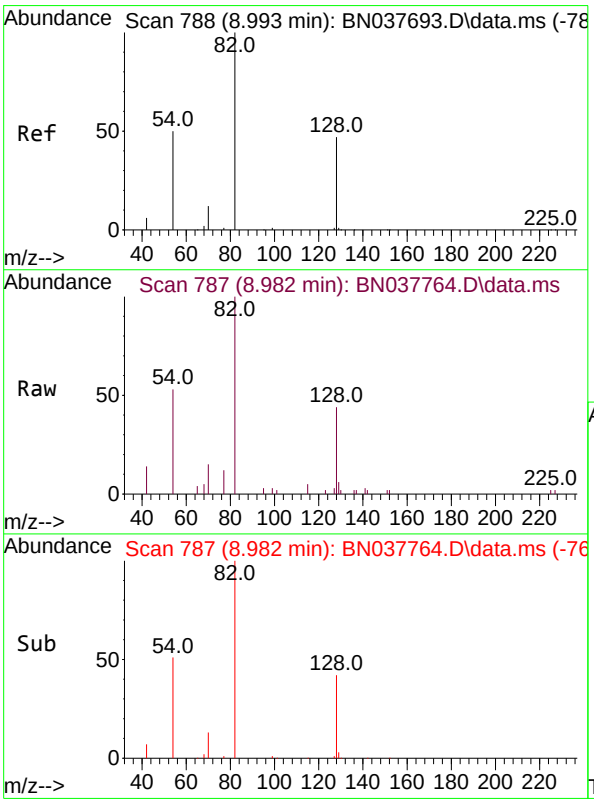

#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.637 min Scan# 94
Delta R.T. -0.011 min
Lab File: BN037764.D
Acq: 18 Sep 2025 05:46

**Instrument :**
BNA_N
**ClientSampleId :**
MW305D-20250909

Tgt Ion:136 Resp: 21168

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 136 | 100 | | |
| 137 | 11.1 | 9.1 | 13.7 |
| 54 | 8.0 | 6.3 | 9.5 |
| 68 | 6.3 | 5.0 | 7.4 |

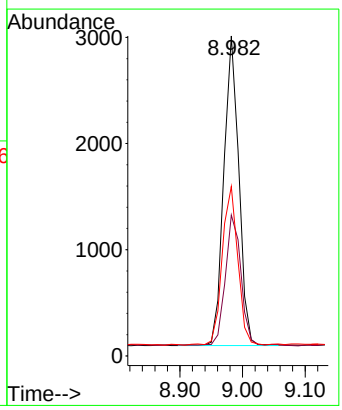


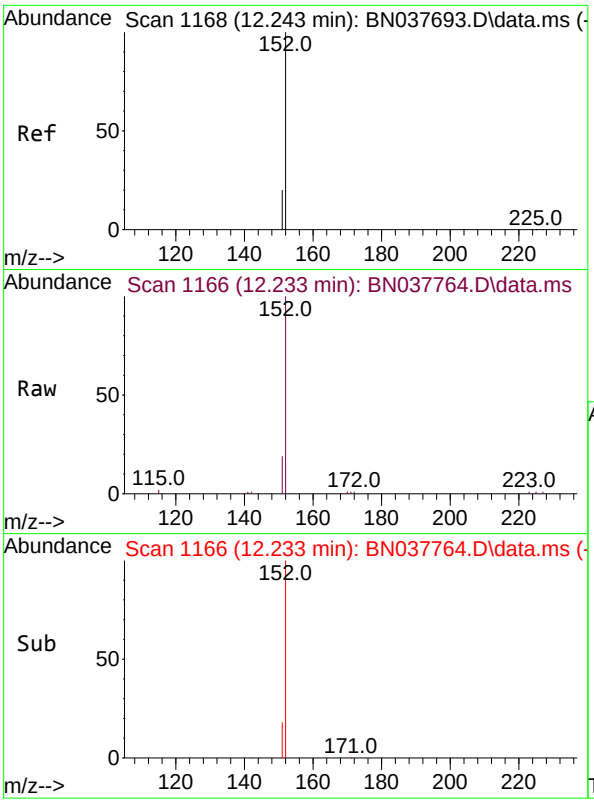




#8
Nitrobenzene-d5
Concen: 0.314 ng
RT: 8.982 min Scan# 787
Delta R.T. -0.011 min
Lab File: BN037764.D
Acq: 18 Sep 2025 05:46

Tgt Ion: 82 Resp: 4861

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 82 | 100 | | |
| 128 | 44.0 | 38.3 | 57.5 |
| 54 | 53.0 | 41.4 | 62.2 |



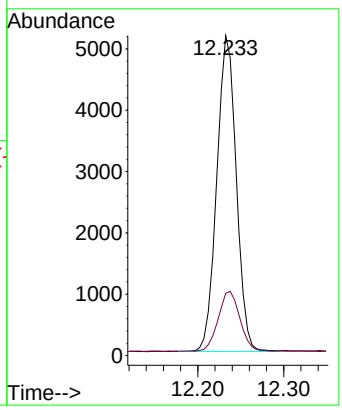


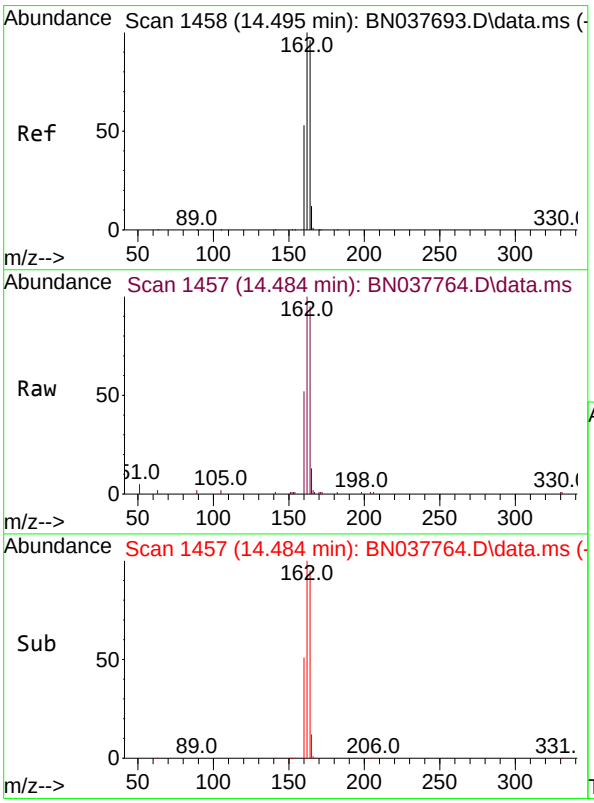

#11
2-Methylnaphthalene-d10
Concen: 0.289 ng
RT: 12.233 min Scan# 11
Delta R.T. -0.010 min
Lab File: BN037764.D
Acq: 18 Sep 2025 05:46

**Instrument :**
BNA_N
**ClientSampleId :**
MW305D-20250909

Tgt Ion:152 Resp: 8118

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

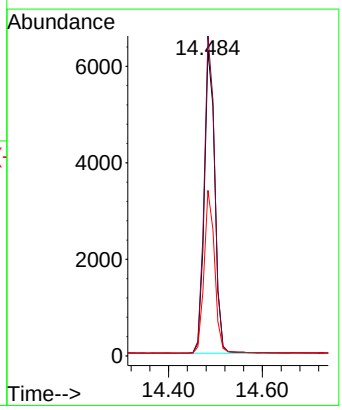


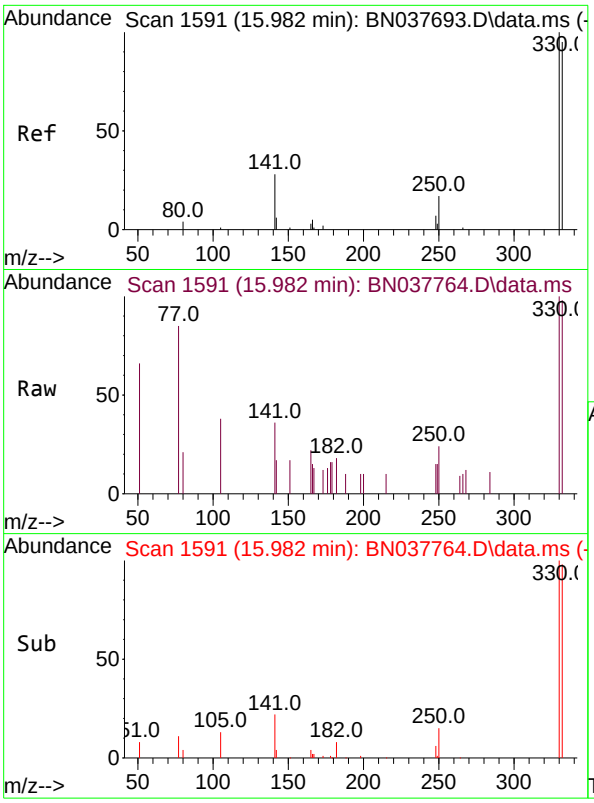




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.484 min Scan# 1457
Delta R.T. -0.011 min
Lab File: BN037764.D
Acq: 18 Sep 2025 05:46

Tgt Ion:164 Resp: 9850

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 164 | 100 | | |
| 162 | 104.8 | 83.1 | 124.7 |
| 160 | 54.2 | 44.3 | 66.5 |



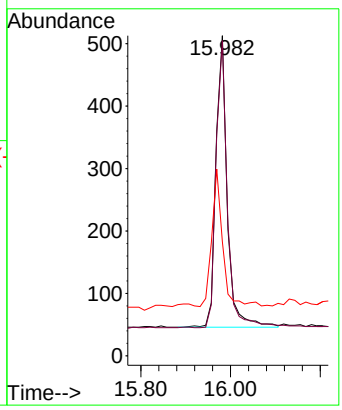


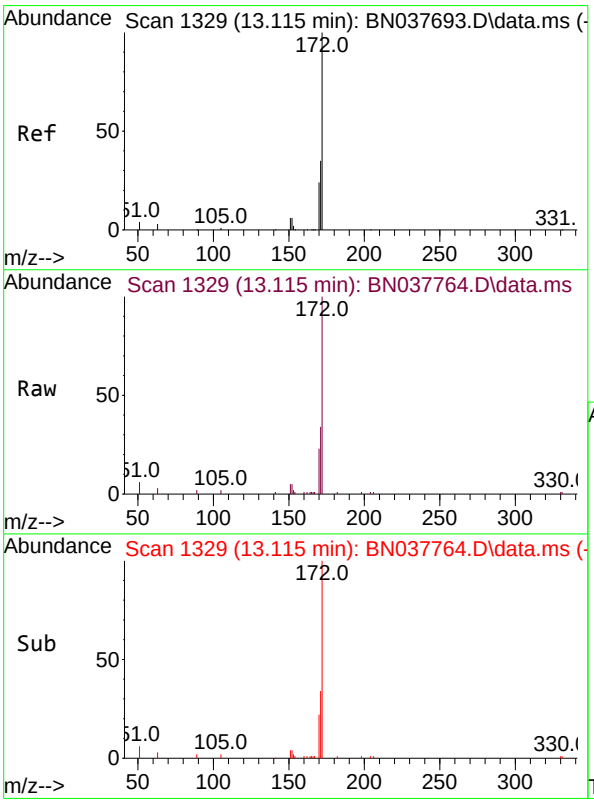

#14
2,4,6-Tribromophenol
Concen: 0.318 ng
RT: 15.982 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN037764.D
Acq: 18 Sep 2025 05:46

**Instrument :**
BNA_N
**ClientSampleId :**
MW305D-20250909

Tgt Ion:330 Resp: 816

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 330 | 100 | | |
| 332 | 99.0 | 75.3 | 112.9 |
| 141 | 47.2 | 35.0 | 52.4 |

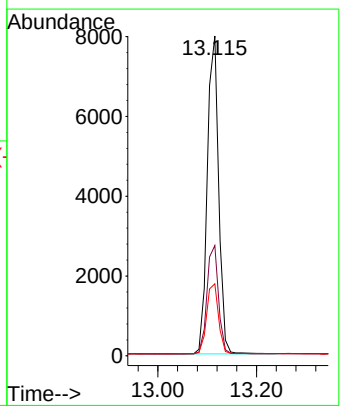


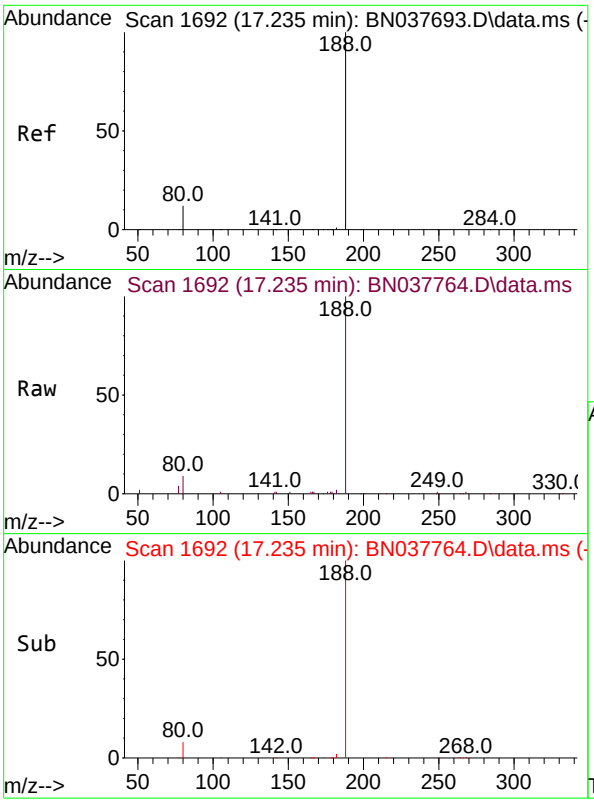




#15
2-Fluorobiphenyl
Concen: 0.309 ng
RT: 13.115 min Scan# 1329
Delta R.T. -0.000 min
Lab File: BN037764.D
Acq: 18 Sep 2025 05:46

Tgt Ion:172 Resp: 12714

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 172 | 100 | | |
| 171 | 34.5 | 28.6 | 43.0 |
| 170 | 22.5 | 19.8 | 29.8 |



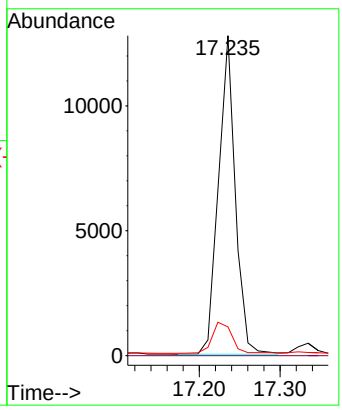


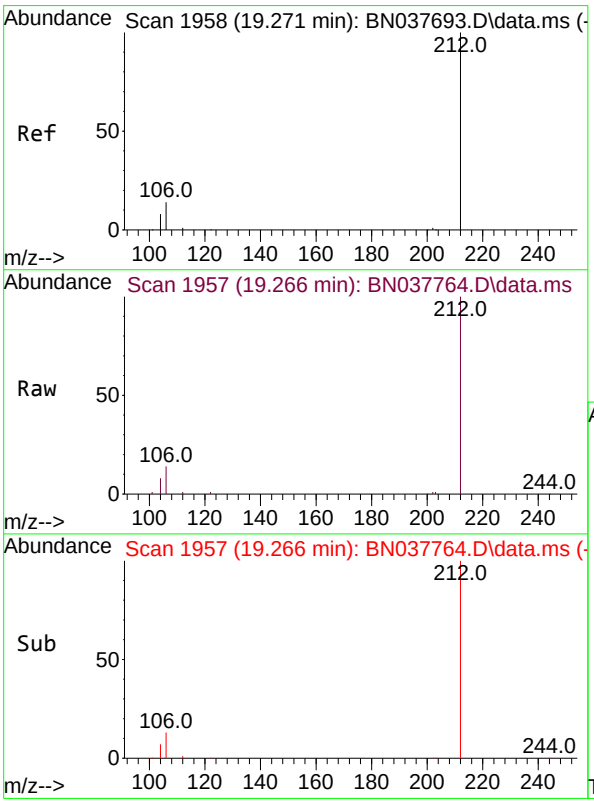

#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.235 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN037764.D
Acq: 18 Sep 2025 05:46

**Instrument :**
BNA_N
**ClientSampleId :**
MW305D-20250909

Tgt Ion:188 Resp: 18466

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 188 | 100 | | |
| 94 | 0.0 | 0.0 | 0.0 |
| 80 | 9.0 | 10.6 | 15.8# |

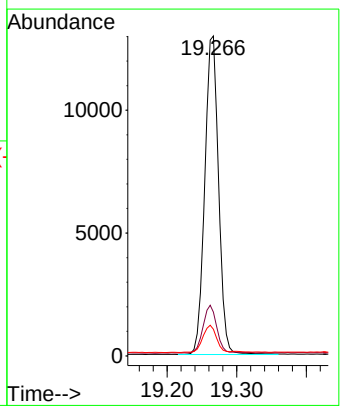


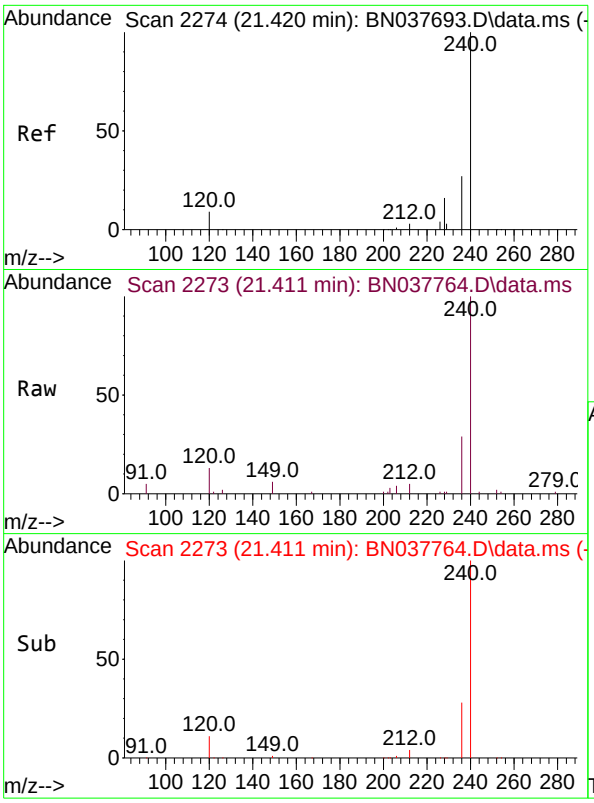




#27
Fluoranthene-d10
Concen: 0.384 ng
RT: 19.266 min Scan# 1957
Delta R.T. -0.005 min
Lab File: BN037764.D
Acq: 18 Sep 2025 05:46

Tgt Ion:212 Resp: 17805

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 212 | 100 | | |
| 106 | 14.9 | 12.2 | 18.2 |
| 104 | 8.4 | 6.9 | 10.3 |



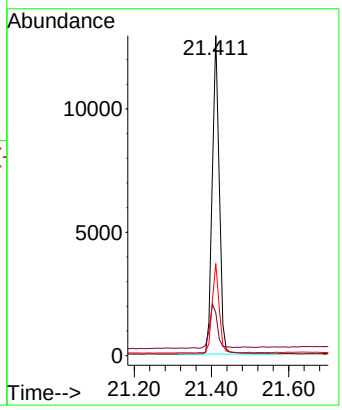


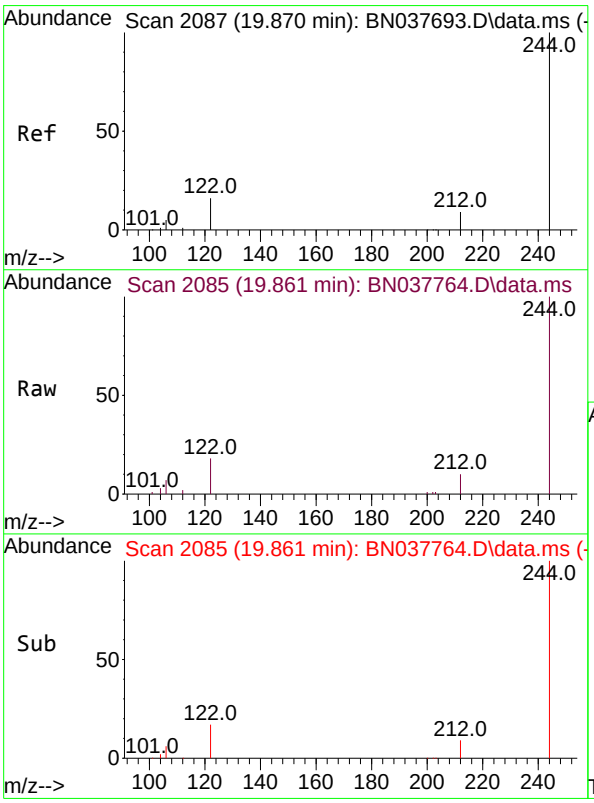

#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.411 min Scan# 21
Delta R.T. -0.009 min
Lab File: BN037764.D
Acq: 18 Sep 2025 05:46

**Instrument :**
BNA_N
**ClientSampleId :**
MW305D-20250909

Tgt Ion:240 Resp: 16400

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 240 | 100 | | |
| 120 | 13.4 | 9.2 | 13.8 |
| 236 | 28.8 | 22.6 | 33.8 |

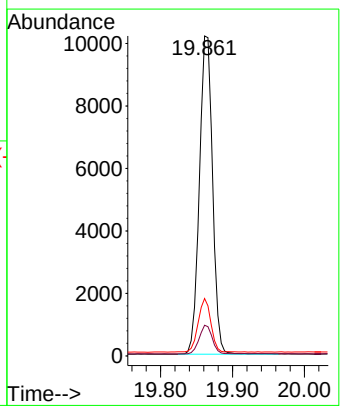


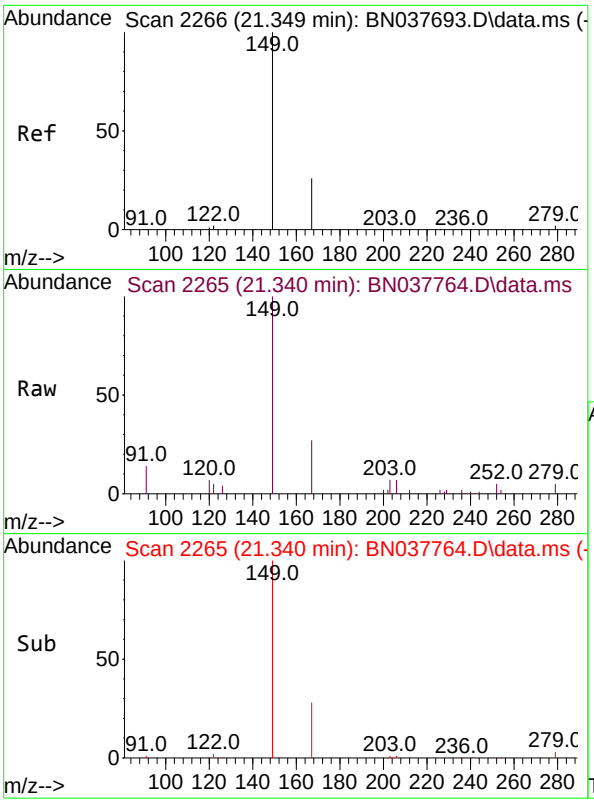




#31
Terphenyl-d14
Concen: 0.389 ng
RT: 19.861 min Scan# 2085
Delta R.T. -0.009 min
Lab File: BN037764.D
Acq: 18 Sep 2025 05:46

Tgt Ion:244 Resp: 12957

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 244 | 100 | | |
| 212 | 9.6 | 7.5 | 11.3 |
| 122 | 17.9 | 13.2 | 19.8 |



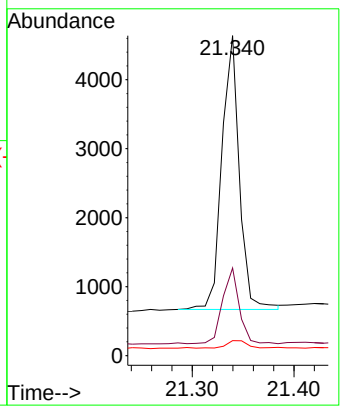


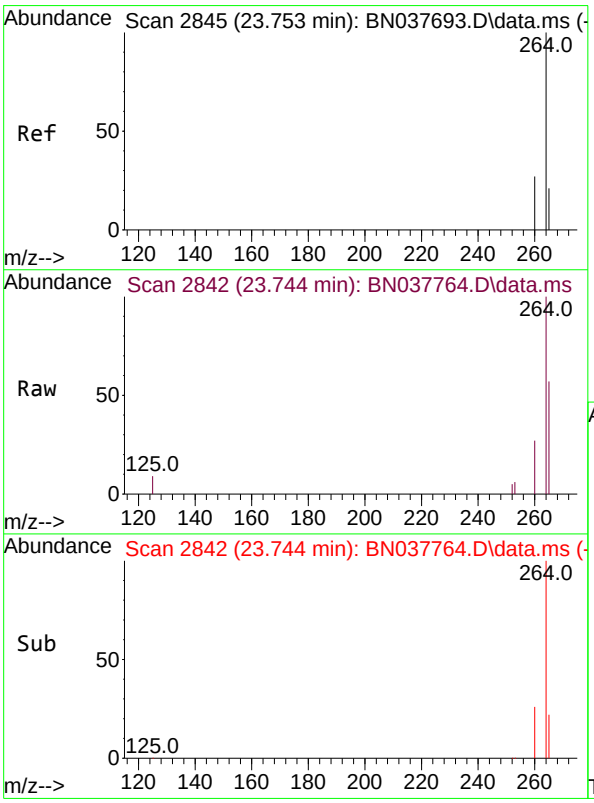

#34
Bis(2-ethylhexyl)phthalate
Concen: 0.280 ng
RT: 21.340 min Scan# 2
Delta R.T. -0.009 min
Lab File: BN037764.D
Acq: 18 Sep 2025 05:46

**Instrument :**
BNA_N
**ClientSampleId :**
MW305D-20250909

Tgt Ion:149 Resp: 4749

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 149 | 100 | | |
| 167 | 26.4 | 20.8 | 31.2 |
| 279 | 3.2 | 3.3 | 4.9# |

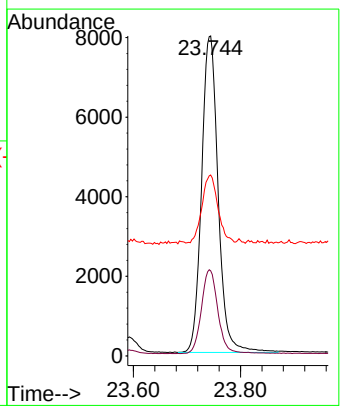



#35
Perylene-d12
Concen: 0.400 ng
RT: 23.744 min Scan# 2842
Delta R.T. -0.009 min
Lab File: BN037764.D
Acq: 18 Sep 2025 05:46

Tgt Ion:264 Resp: 17053

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 264 | 100 | | |
| 260 | 26.6 | 21.8 | 32.8 |
| 265 | 56.5 | 39.4 | 59.2 |



Raw Data: **BN037765.D**

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

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | AECOM Technical Services, Inc. | Date Collected: | 09/09/25 |
| Project: | NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258 | Date Received: | 09/12/25 |
| Client Sample ID: | DUP01-20250909 | SDG No.: | Q3095 |
| Lab Sample ID: | Q3095-17 | Matrix: | Water |
| Analytical Method: | SW8270ESIM | % Solid: | 0 |
| Sample Wt/Vol: | 1000 Units: mL | Final Vol: | 1000 uL |
| Soil Aliquot Vol: | uL | Test: | SVOC-SIMGroup1 |
| Extraction Type : | Decanted : N | Level : | LOW |
| Injection Volume : | GPC Factor : 1.0 | GPC Cleanup : | N PH : |
| Prep Method : | | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| BN037765.D | 1 | 09/15/25 10:15 | 09/18/25 06:23 | PB169692 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOD | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | | |
| 123-91-1 | 1,4-Dioxane | 0.52 | | 0.070 | 0.20 | 0.20 | ug/L |
| **SURROGATES** | | | | | | | |
| 7297-45-2 | 2-Methylnaphthalene-d10 | 0.30 | | 30 - 150 | | 75% | SPK: 0.4 |
| 93951-69-0 | Fluoranthene-d10 | 0.37 | | 30 - 150 | | 92% | SPK: 0.4 |
| 4165-60-0 | Nitrobenzene-d5 | 0.33 | | 55 - 111 | | 81% | SPK: 0.4 |
| 321-60-8 | 2-Fluorobiphenyl | 0.33 | | 53 - 106 | | 83% | SPK: 0.4 |
| 1718-51-0 | Terphenyl-d14 | 0.43 | | 58 - 132 | | 106% | SPK: 0.4 |
| **INTERNAL STANDARDS** | | | | | | | |
| 3855-82-1 | 1,4-Dichlorobenzene-d4 | 7820 | 7.833 | | | | |
| 1146-65-2 | Naphthalene-d8 | 21300 | 10.637 | | | | |
| 15067-26-2 | Acenaphthene-d10 | 9720 | 14.484 | | | | |
| 1517-22-2 | Phenanthrene-d10 | 17200 | 17.236 | | | | |
| 1719-03-5 | Chrysene-d12 | 13600 | 21.411 | | | | |
| 1520-96-3 | Perylene-d12 | 14200 | 23.742 | | | | |

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\BN091725\
Data File : BN037765.D
Acq On : 18 Sep 2025 06:23
Operator : RC/JU
Sample : Q3095-17
Misc :
ALS Vial : 26 Sample Multiplier: 1

**Instrument :**
BNA_N
**ClientSampleId :**
DUP01-20250909

Quant Time: Sep 18 07:55:01 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN091125.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Sep 11 14:20:01 2025
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) 1,4-Dichlorobenzene-d4 | 7.833 | 152 | 7819 | 0.400 | ng | 0.00 |
| 7) Naphthalene-d8 | 10.637 | 136 | 21320 | 0.400 | ng | -0.01 |
| 13) Acenaphthene-d10 | 14.484 | 164 | 9718 | 0.400 | ng | -0.01 |
| 19) Phenanthrene-d10 | 17.236 | 188 | 17159 | 0.400 | ng | # 0.00 |
| 29) Chrysene-d12 | 21.411 | 240 | 13647 | 0.400 | ng | # 0.00 |
| 35) Perylene-d12 | 23.742 | 264 | 14246 | 0.400 | ng | #-0.01 |
| System Monitoring Compounds | | | | | | |
| 4) 2-Fluorophenol | 5.399 | 112 | 2247 | 0.125 | ng | 0.00 |
| 5) Phenol-d6 | 6.988 | 99 | 1627 | 0.070 | ng | 0.00 |
| 8) Nitrobenzene-d5 | 8.982 | 82 | 5074 | 0.325 | ng | -0.01 |
| 11) 2-Methylnaphthalene-d10 | 12.233 | 152 | 8485 | 0.300 | ng | -0.01 |
| 14) 2,4,6-Tribromophenol | 15.982 | 330 | 988 | 0.390 | ng | 0.00 |
| 15) 2-Fluorobiphenyl | 13.115 | 172 | 13429 | 0.330 | ng | 0.00 |
| 27) Fluoranthene-d10 | 19.267 | 212 | 15856 | 0.368 | ng | 0.00 |
| 31) Terphenyl-d14 | 19.861 | 244 | 11784 | 0.425 | ng | 0.00 |
| Target Compounds | | | | | | Qvalue |
| 2) 1,4-Dioxane | 3.297 | 88 | 4197 | 0.515 | ng | # 93 |
| 34) Bis(2-ethylhexyl)phtha... | 21.340 | 149 | 2344 | 0.166 | ng | 98 |

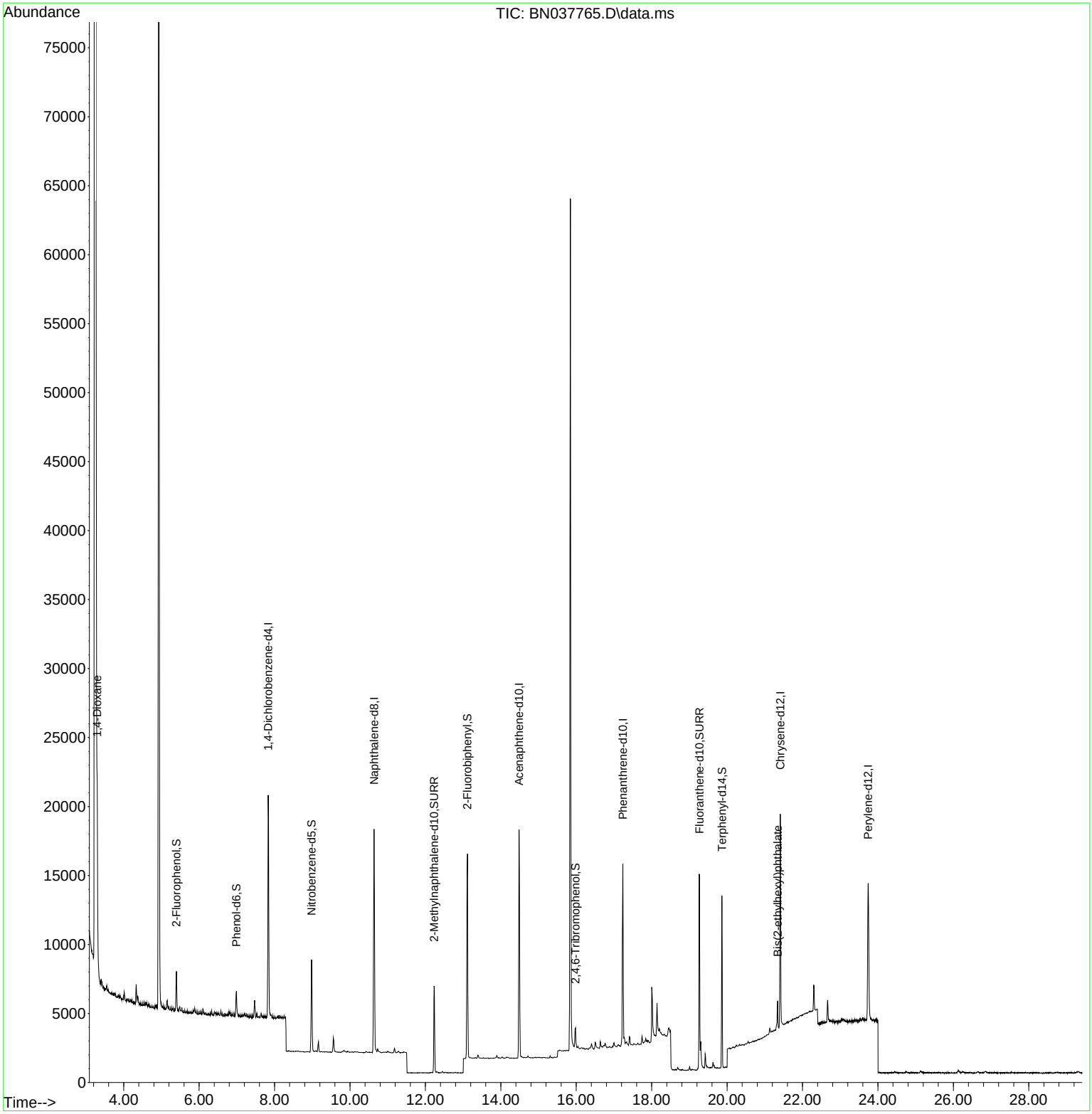
(#) = qualifier out of range (m) = manual integration (+) = signals summed

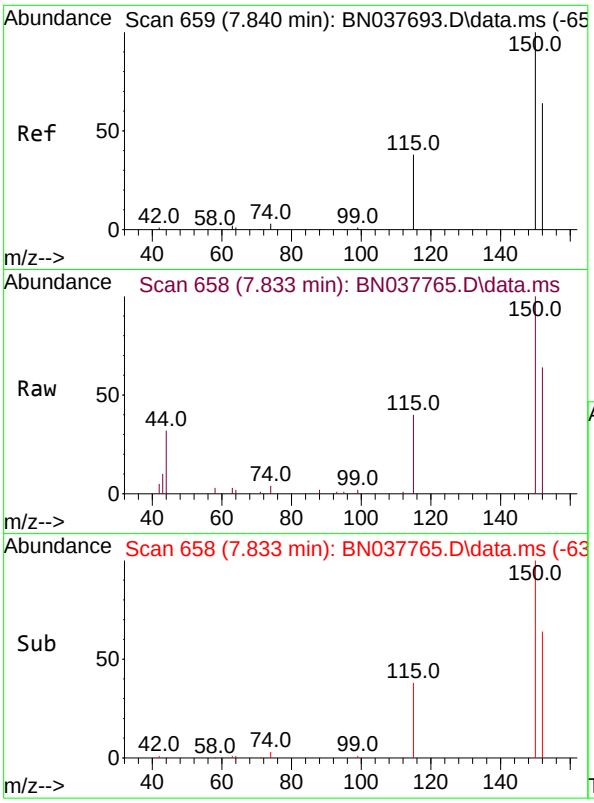
Sample Results: **BN037765.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN091725\
Data File : BN037765.D
Acq On : 18 Sep 2025 06:23
Operator : RC/JU
Sample : Q3095-17
Misc :
ALS Vial : 26 Sample Multiplier: 1

**Instrument :**
BNA_N
**ClientSampleId :**
DUP01-20250909

Quant Time: Sep 18 07:55:01 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN091125.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Sep 11 14:20:01 2025
Response via : Initial Calibration



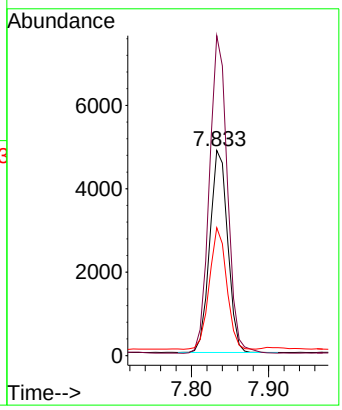


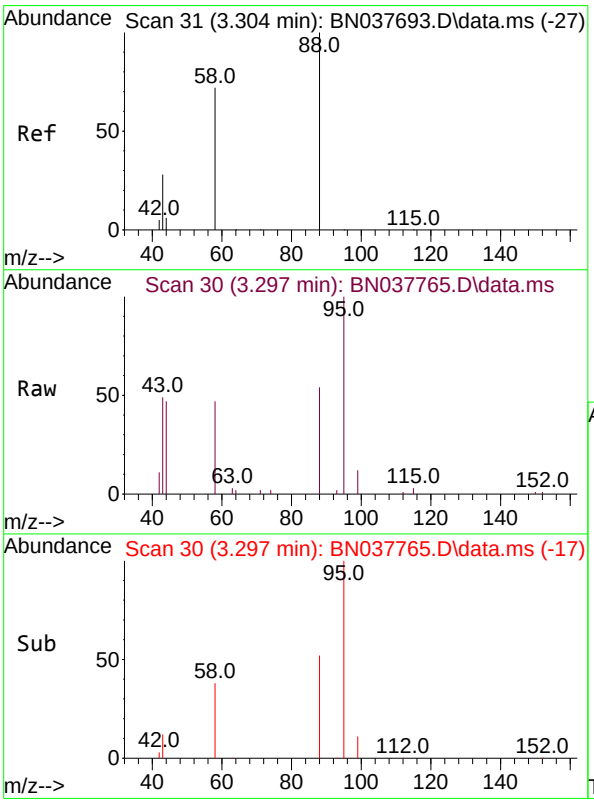

#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.833 min Scan# 6
Delta R.T. -0.007 min
Lab File: BN037765.D
Acq: 18 Sep 2025 06:23

**Instrument :**
BNA_N
**ClientSampleId :**
DUP01-20250909

Tgt Ion:152 Resp: 7819

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 150 | 155.9 | 124.5 | 186.7 |
| 115 | 62.3 | 49.2 | 73.8 |

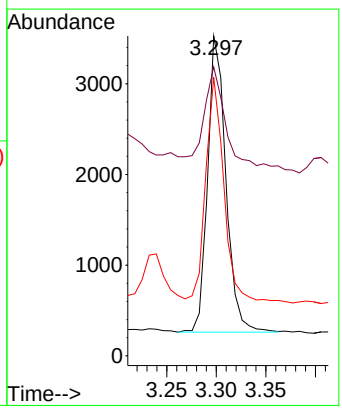


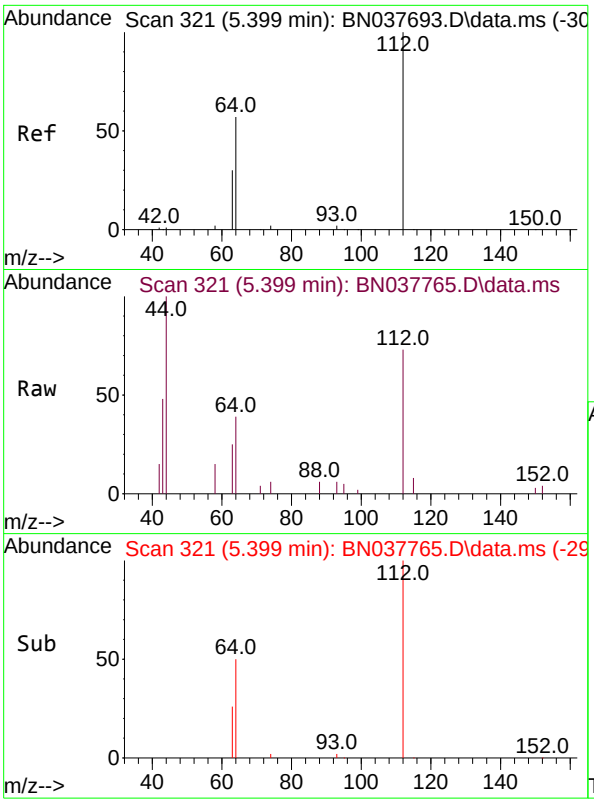




#2
1,4-Dioxane
Concen: 0.515 ng
RT: 3.297 min Scan# 30
Delta R.T. -0.007 min
Lab File: BN037765.D
Acq: 18 Sep 2025 06:23

Tgt Ion: 88 Resp: 4197

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 88 | 100 | | |
| 43 | 41.9 | 26.8 | 40.2# |
| 58 | 74.5 | 61.9 | 92.9 |



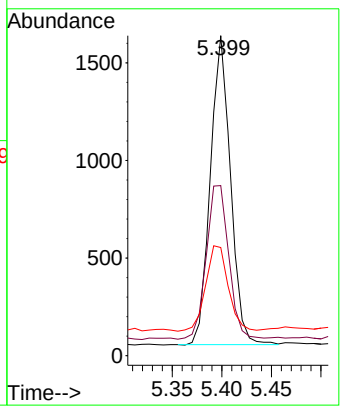


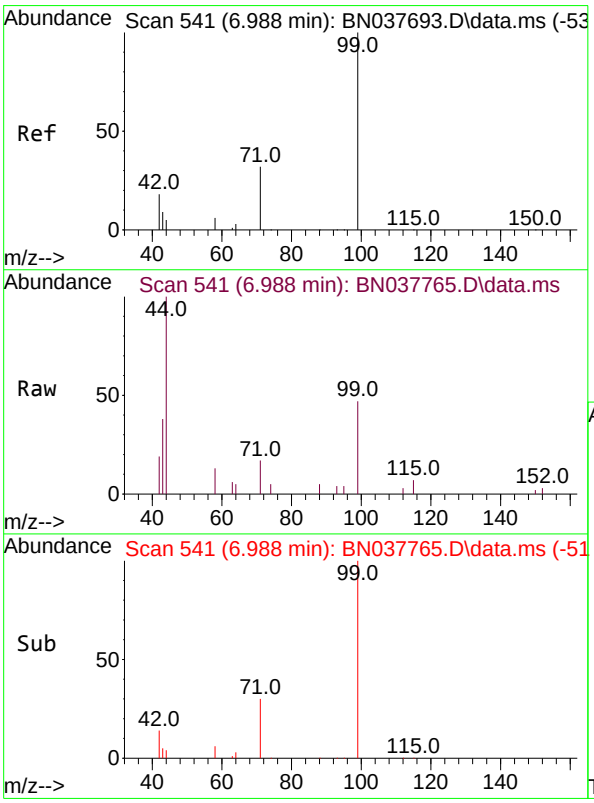

#4
2-Fluorophenol
Concen: 0.125 ng
RT: 5.399 min Scan# 3
Delta R.T. 0.000 min
Lab File: BN037765.D
Acq: 18 Sep 2025 06:23

**Instrument :**
BNA_N
**ClientSampleId :**
DUP01-20250909

Tgt Ion:112 Resp: 2247

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 112 | 100 | | |
| 64 | 55.4 | 44.9 | 67.3 |
| 63 | 31.0 | 24.7 | 37.1 |

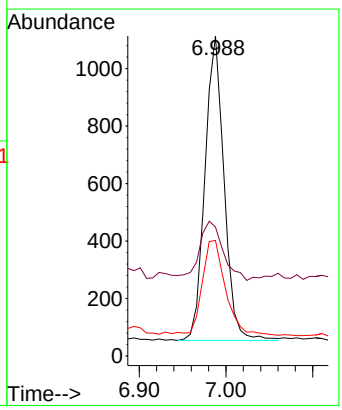


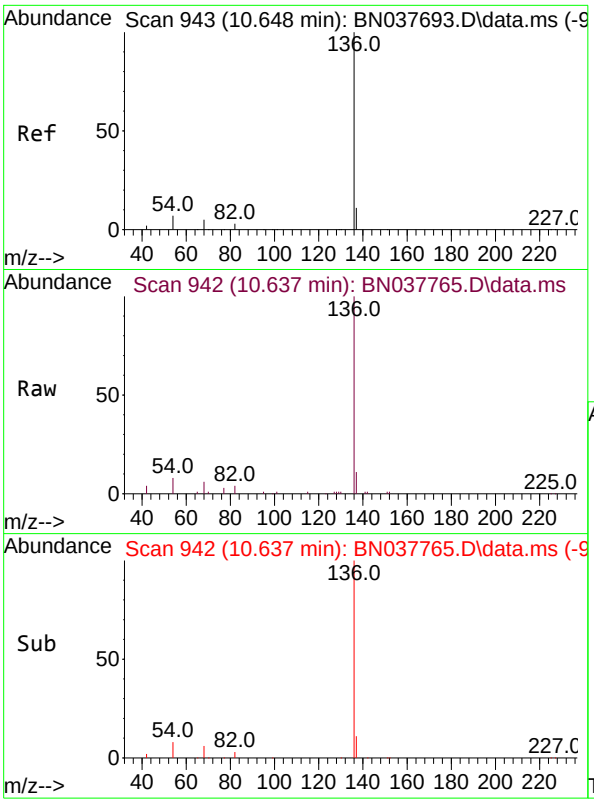




#5
Phenol-d6
Concen: 0.070 ng
RT: 6.988 min Scan# 541
Delta R.T. 0.000 min
Lab File: BN037765.D
Acq: 18 Sep 2025 06:23

Tgt Ion: 99 Resp: 1627

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 99 | 100 | | |
| 42 | 21.9 | 16.6 | 24.8 |
| 71 | 38.0 | 26.7 | 40.1 |



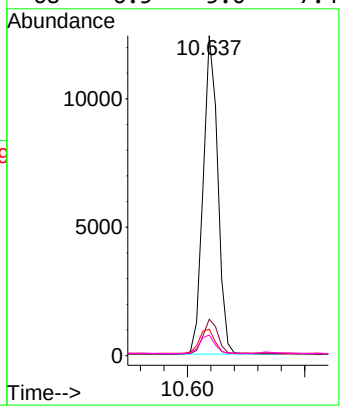


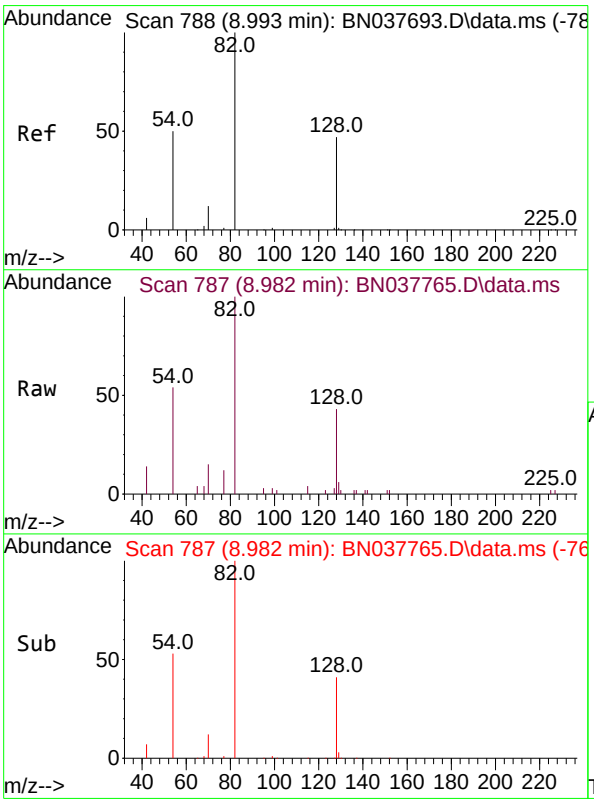

#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.637 min Scan# 94
Delta R.T. -0.011 min
Lab File: BN037765.D
Acq: 18 Sep 2025 06:23

**Instrument :**
BNA_N
**ClientSampleId :**
DUP01-20250909

Tgt Ion:136 Resp: 21320

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 136 | 100 | | |
| 137 | 11.4 | 9.1 | 13.7 |
| 54 | 8.2 | 6.3 | 9.5 |
| 68 | 6.5 | 5.0 | 7.4 |

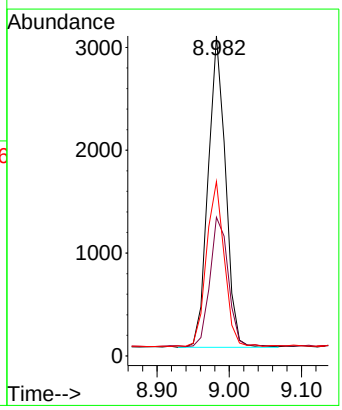


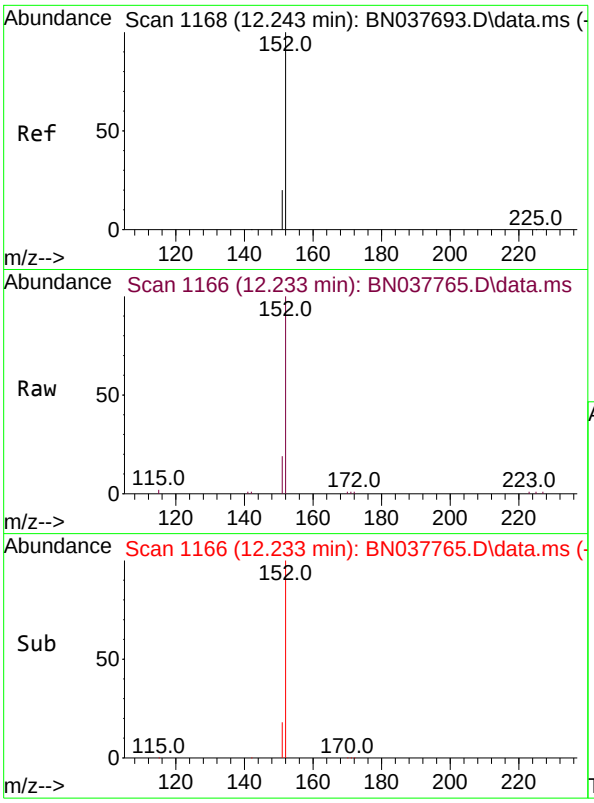




#8
Nitrobenzene-d5
Concen: 0.325 ng
RT: 8.982 min Scan# 787
Delta R.T. -0.011 min
Lab File: BN037765.D
Acq: 18 Sep 2025 06:23

Tgt Ion: 82 Resp: 5074

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 82 | 100 | | |
| 128 | 43.3 | 38.3 | 57.5 |
| 54 | 54.5 | 41.4 | 62.2 |



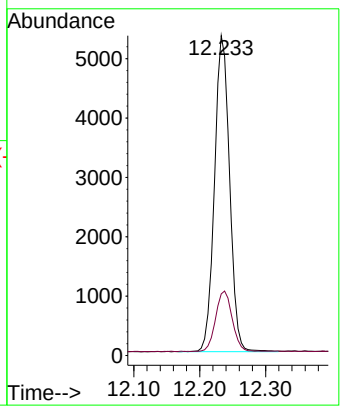


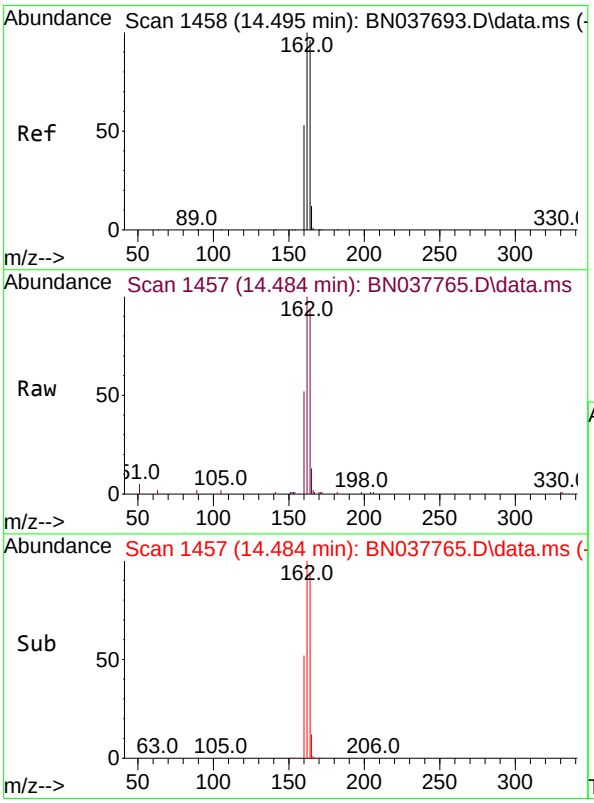

#11
2-Methylnaphthalene-d10
Concen: 0.300 ng
RT: 12.233 min Scan# 11
Delta R.T. -0.010 min
Lab File: BN037765.D
Acq: 18 Sep 2025 06:23

**Instrument :**
BNA_N
**ClientSampleId :**
DUP01-20250909

Tgt Ion:152 Resp: 8485

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

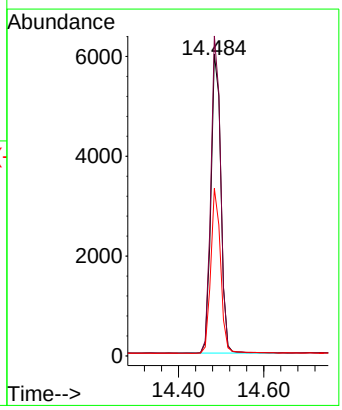


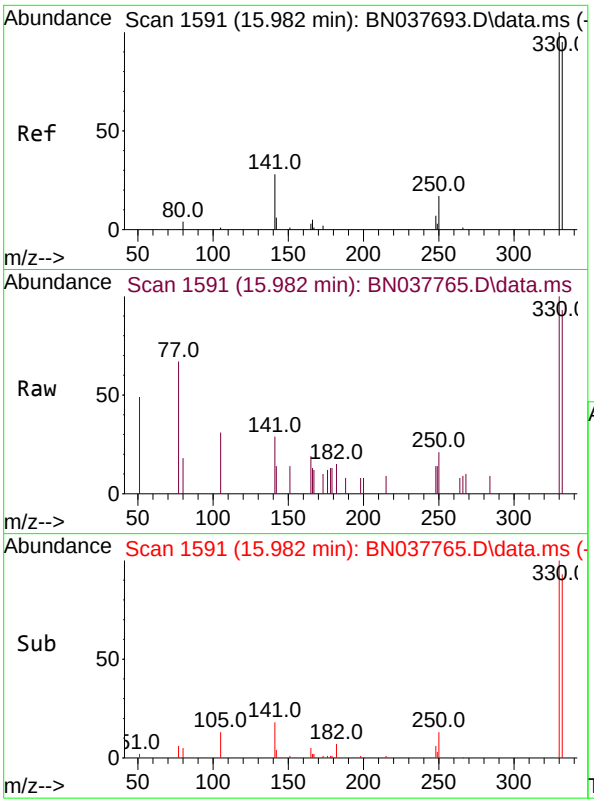




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.484 min Scan# 1457
Delta R.T. -0.011 min
Lab File: BN037765.D
Acq: 18 Sep 2025 06:23

Tgt Ion:164 Resp: 9718

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 164 | 100 | | |
| 162 | 106.1 | 83.1 | 124.7 |
| 160 | 55.5 | 44.3 | 66.5 |



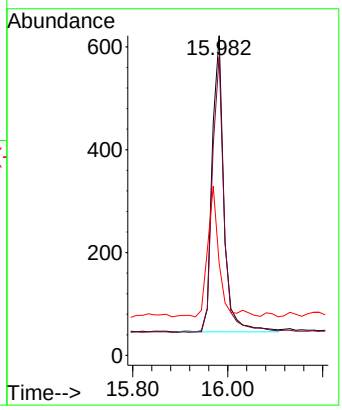


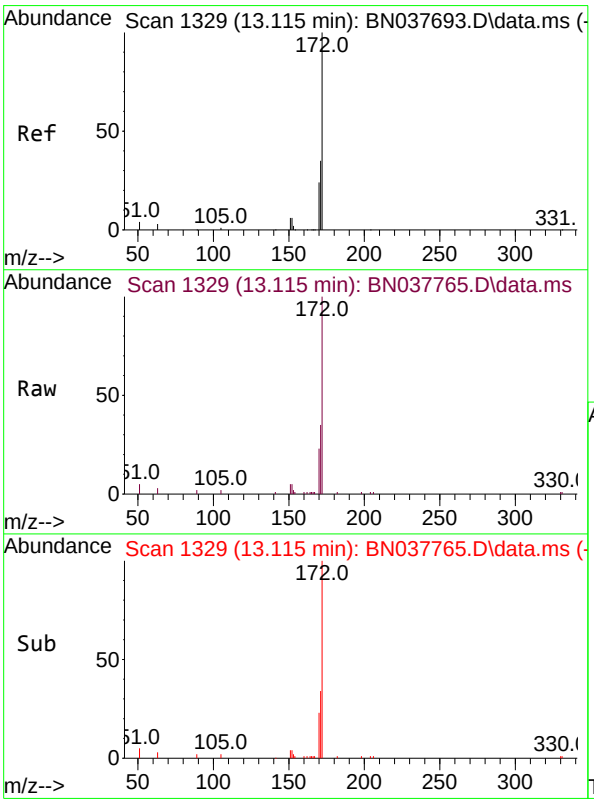

#14
2,4,6-Tribromophenol
Concen: 0.390 ng
RT: 15.982 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN037765.D
Acq: 18 Sep 2025 06:23

**Instrument :**
BNA_N
**ClientSampleId :**
DUP01-20250909

Tgt Ion:330 Resp: 988

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 330 | 100 | | |
| 332 | 93.3 | 75.3 | 112.9 |
| 141 | 41.8 | 35.0 | 52.4 |

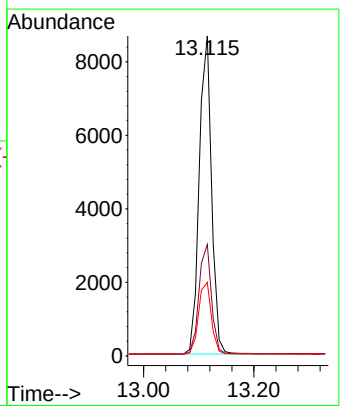


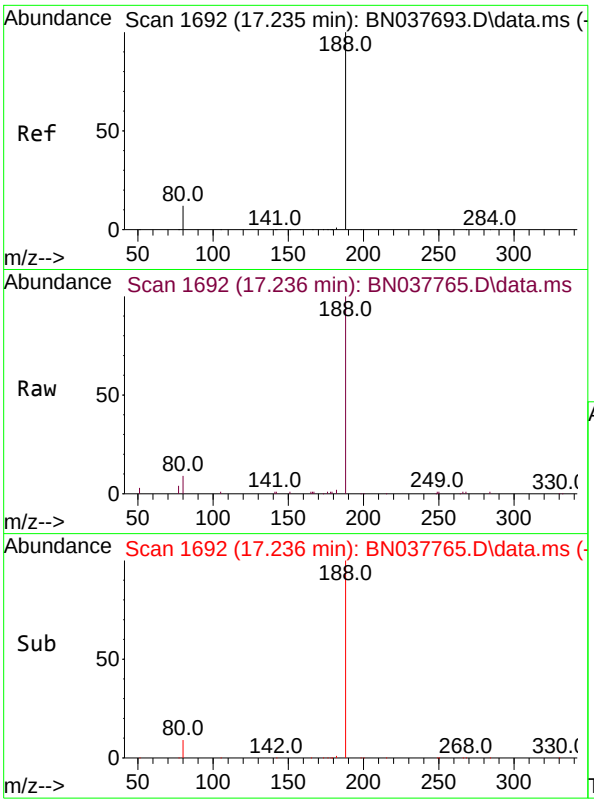




#15
2-Fluorobiphenyl
Concen: 0.330 ng
RT: 13.115 min Scan# 1329
Delta R.T. 0.000 min
Lab File: BN037765.D
Acq: 18 Sep 2025 06:23

Tgt Ion:172 Resp: 13429

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 172 | 100 | | |
| 171 | 34.8 | 28.6 | 43.0 |
| 170 | 23.0 | 19.8 | 29.8 |



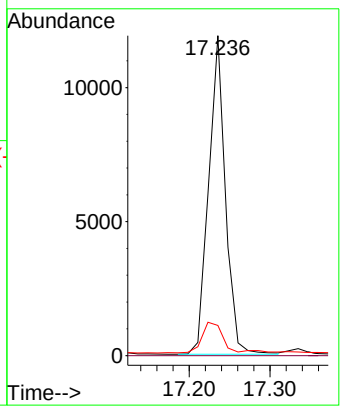


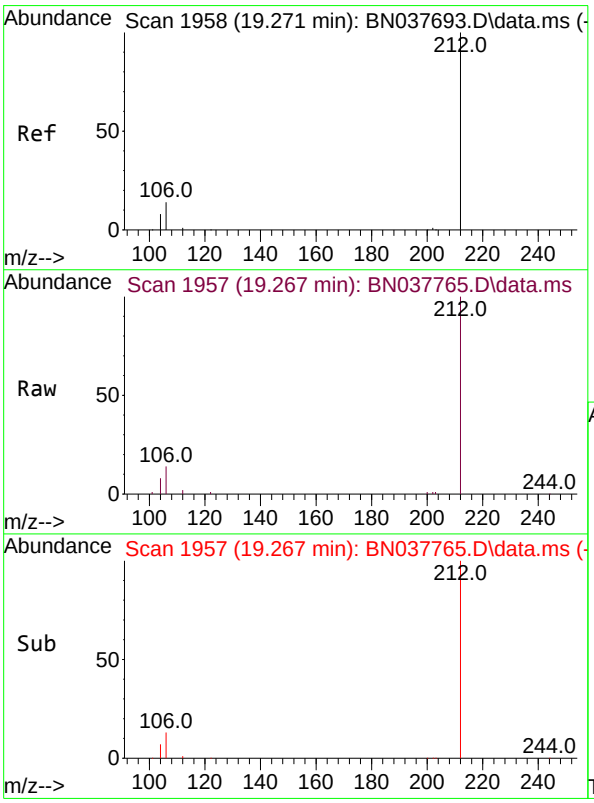

#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.236 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN037765.D
Acq: 18 Sep 2025 06:23

**Instrument :**
BNA_N
**ClientSampleId :**
DUP01-20250909

Tgt Ion:188 Resp: 17159

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 188 | 100 | | |
| 94 | 0.0 | 0.0 | 0.0 |
| 80 | 9.4 | 10.6 | 15.8# |

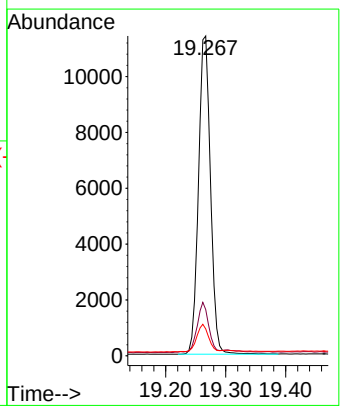


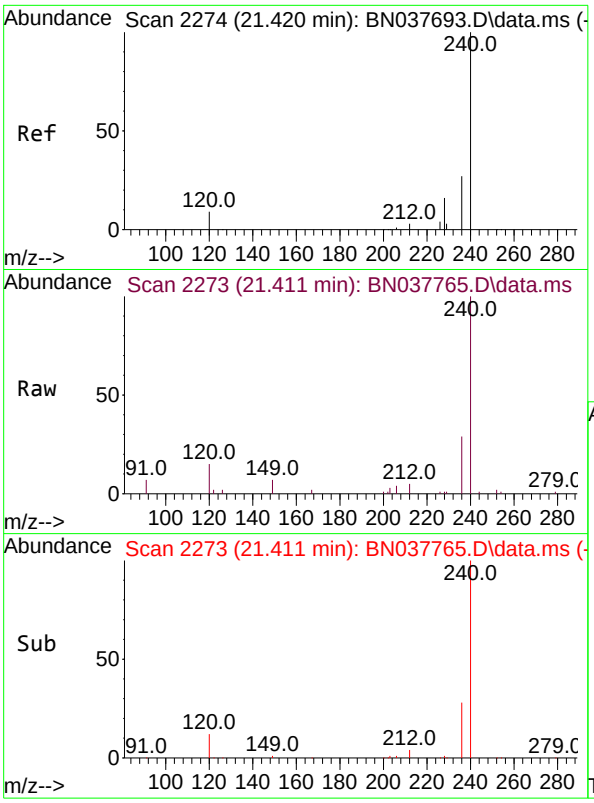




#27
Fluoranthene-d10
Concen: 0.368 ng
RT: 19.267 min Scan# 1957
Delta R.T. -0.005 min
Lab File: BN037765.D
Acq: 18 Sep 2025 06:23

Tgt Ion:212 Resp: 15856

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 212 | 100 | | |
| 106 | 15.3 | 12.2 | 18.2 |
| 104 | 8.7 | 6.9 | 10.3 |



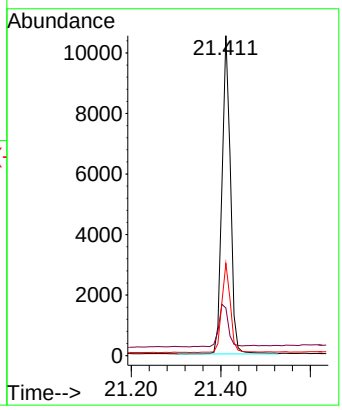


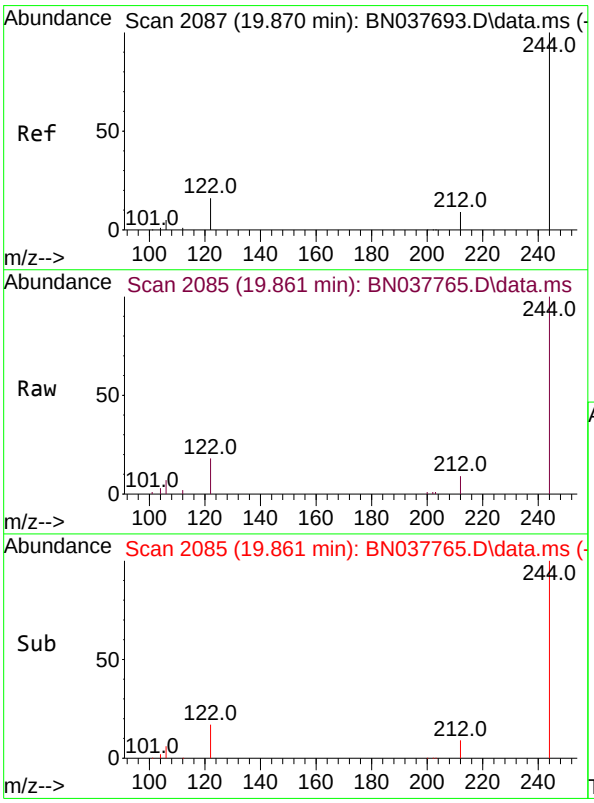

#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.411 min Scan# 21
Delta R.T. -0.009 min
Lab File: BN037765.D
Acq: 18 Sep 2025 06:23

**Instrument :**
BNA_N
**ClientSampleId :**
DUP01-20250909

Tgt Ion:240 Resp: 13647

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 240 | 100 | | |
| 120 | 14.9 | 9.2 | 13.8# |
| 236 | 28.8 | 22.6 | 33.8 |

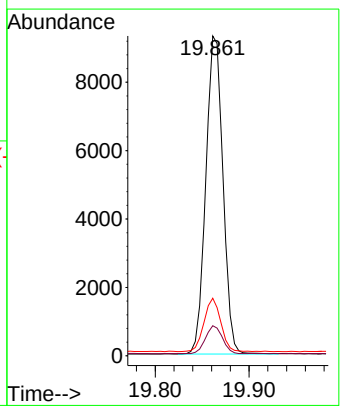


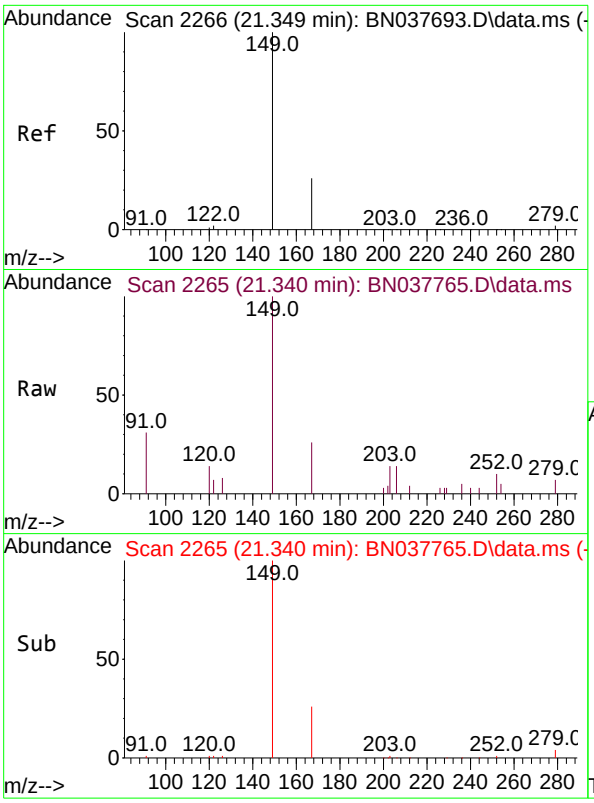




#31
Terphenyl-d14
Concen: 0.425 ng
RT: 19.861 min Scan# 2085
Delta R.T. -0.009 min
Lab File: BN037765.D
Acq: 18 Sep 2025 06:23

Tgt Ion:244 Resp: 11784

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 244 | 100 | | |
| 212 | 9.4 | 7.5 | 11.3 |
| 122 | 18.0 | 13.2 | 19.8 |



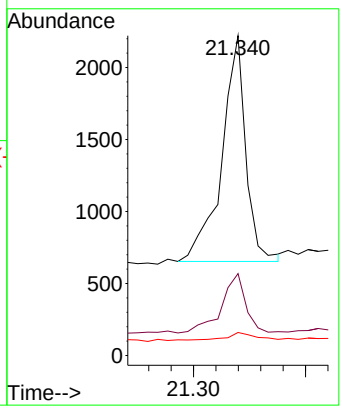


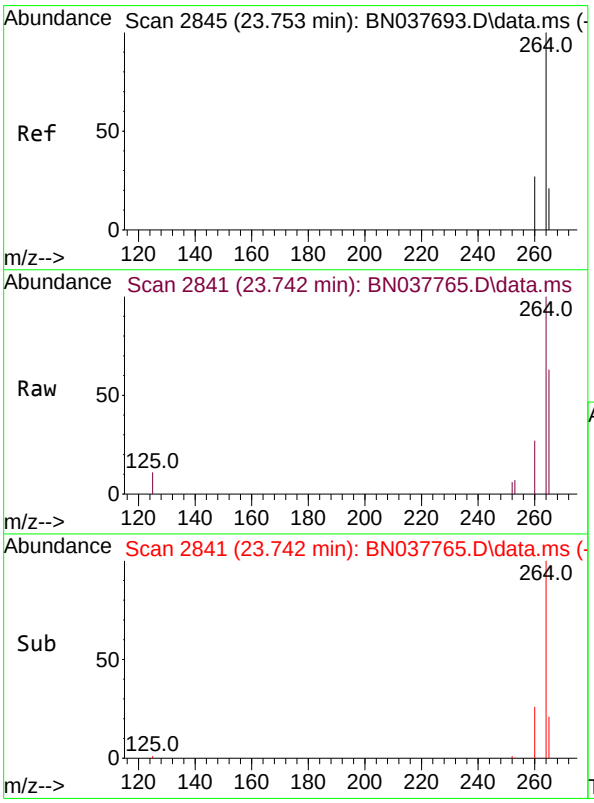

#34
Bis(2-ethylhexyl)phthalate
Concen: 0.166 ng
RT: 21.340 min Scan# 2
Delta R.T. -0.009 min
Lab File: BN037765.D
Acq: 18 Sep 2025 06:23

**Instrument :**
BNA_N
**ClientSampleId :**
DUP01-20250909

Tgt Ion:149 Resp: 2344

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 149 | 100 | | |
| 167 | 26.8 | 20.8 | 31.2 |
| 279 | 3.6 | 3.3 | 4.9 |

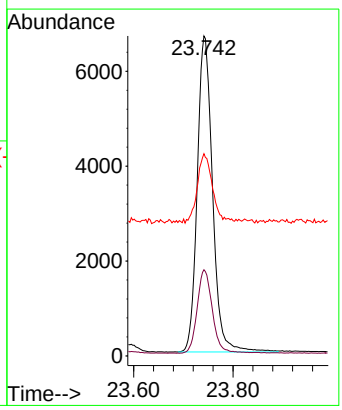



#35
Perylene-d12
Concen: 0.400 ng
RT: 23.742 min Scan# 2841
Delta R.T. -0.012 min
Lab File: BN037765.D
Acq: 18 Sep 2025 06:23

Tgt Ion:264 Resp: 14246

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 264 | 100 | | |
| 260 | 26.9 | 21.8 | 32.8 |
| 265 | 63.2 | 39.4 | 59.2# |



Raw Data: **BN037766.D**

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

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | AECOM Technical Services, Inc. | Date Collected: | 09/09/25 |
| Project: | NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258 | Date Received: | 09/12/25 |
| Client Sample ID: | RE126D2-20250909 | SDG No.: | Q3095 |
| Lab Sample ID: | Q3095-18 | Matrix: | Water |
| Analytical Method: | SW8270ESIM | % Solid: | 0 |
| Sample Wt/Vol: | 1000 Units: mL | Final Vol: | 1000 uL |
| Soil Aliquot Vol: | uL | Test: | SVOC-SIMGroup1 |
| Extraction Type : | Decanted : N | Level : | LOW |
| Injection Volume : | GPC Factor : 1.0 | GPC Cleanup : | N PH : |
| Prep Method : | | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| BN037766.D | 1 | 09/15/25 10:15 | 09/18/25 06:59 | PB169692 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOD | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | | |
| 123-91-1 | 1,4-Dioxane | 2.60 | | 0.070 | 0.20 | 0.20 | ug/L |
| **SURROGATES** | | | | | | | |
| 7297-45-2 | 2-Methylnaphthalene-d10 | 0.29 | | 30 - 150 | | 72% | SPK: 0.4 |
| 93951-69-0 | Fluoranthene-d10 | 0.35 | | 30 - 150 | | 88% | SPK: 0.4 |
| 4165-60-0 | Nitrobenzene-d5 | 0.31 | | 55 - 111 | | 76% | SPK: 0.4 |
| 321-60-8 | 2-Fluorobiphenyl | 0.32 | | 53 - 106 | | 79% | SPK: 0.4 |
| 1718-51-0 | Terphenyl-d14 | 0.43 | | 58 - 132 | | 108% | SPK: 0.4 |
| **INTERNAL STANDARDS** | | | | | | | |
| 3855-82-1 | 1,4-Dichlorobenzene-d4 | 8400 | 7.833 | | | | |
| 1146-65-2 | Naphthalene-d8 | 23300 | 10.637 | | | | |
| 15067-26-2 | Acenaphthene-d10 | 10700 | 14.484 | | | | |
| 1517-22-2 | Phenanthrene-d10 | 18600 | 17.236 | | | | |
| 1719-03-5 | Chrysene-d12 | 13600 | 21.411 | | | | |
| 1520-96-3 | Perylene-d12 | 14300 | 23.745 | | | | |

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\BN091725\
Data File : BN037766.D
Acq On : 18 Sep 2025 06:59
Operator : RC/JU
Sample : Q3095-18
Misc :
ALS Vial : 27 Sample Multiplier: 1

**Instrument :**
BNA_N
**ClientSampleId :**
RE126D2-20250909

Quant Time: Sep 18 07:55:18 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN091125.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Sep 11 14:20:01 2025
Response via : Initial Calibration

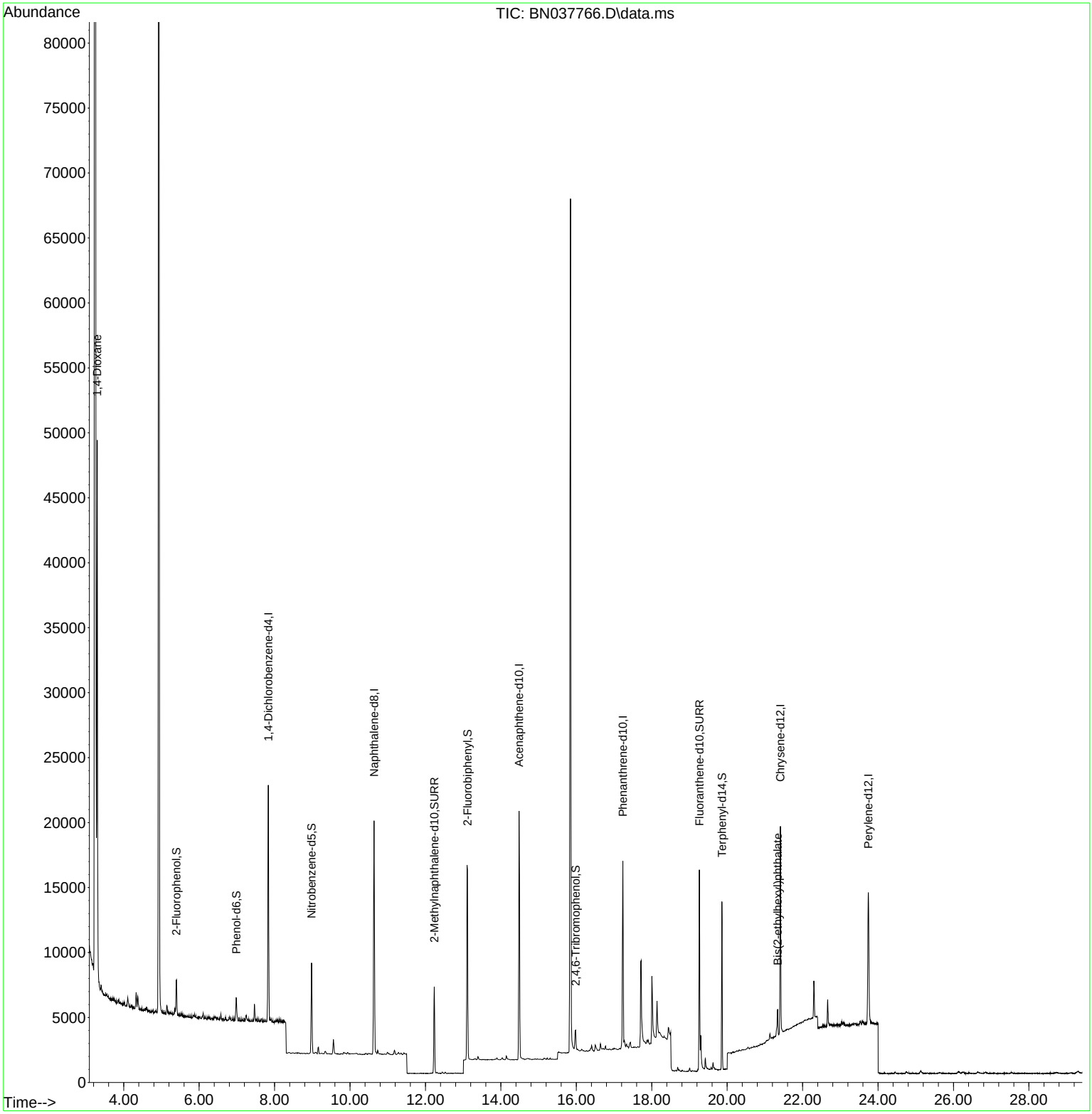
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) 1,4-Dichlorobenzene-d4 | 7.833 | 152 | 8399 | 0.400 | ng | 0.00 |
| 7) Naphthalene-d8 | 10.637 | 136 | 23335 | 0.400 | ng | -0.01 |
| 13) Acenaphthene-d10 | 14.484 | 164 | 10732 | 0.400 | ng | -0.01 |
| 19) Phenanthrene-d10 | 17.236 | 188 | 18615 | 0.400 | ng | # 0.00 |
| 29) Chrysene-d12 | 21.411 | 240 | 13639 | 0.400 | ng | 0.00 |
| 35) Perylene-d12 | 23.745 | 264 | 14319 | 0.400 | ng | # 0.00 |
| System Monitoring Compounds | | | | | | |
| 4) 2-Fluorophenol | 5.399 | 112 | 2304 | 0.119 | ng | 0.00 |
| 5) Phenol-d6 | 6.988 | 99 | 1698 | 0.068 | ng | 0.00 |
| 8) Nitrobenzene-d5 | 8.982 | 82 | 5216 | 0.306 | ng | -0.01 |
| 11) 2-Methylnaphthalene-d10 | 12.233 | 152 | 8958 | 0.290 | ng | -0.01 |
| 14) 2,4,6-Tribromophenol | 15.982 | 330 | 1036 | 0.370 | ng | 0.00 |
| 15) 2-Fluorobiphenyl | 13.116 | 172 | 14218 | 0.317 | ng | 0.00 |
| 27) Fluoranthene-d10 | 19.262 | 212 | 16425 | 0.351 | ng | 0.00 |
| 31) Terphenyl-d14 | 19.861 | 244 | 11960 | 0.432 | ng | 0.00 |
| Target Compounds | | | | | | Qvalue |
| 2) 1,4-Dioxane | 3.297 | 88 | 22522 | 2.574 | ng | 96 |
| 34) Bis(2-ethylhexyl)phtha... | 21.340 | 149 | 2756 | 0.195 | ng | 96 |

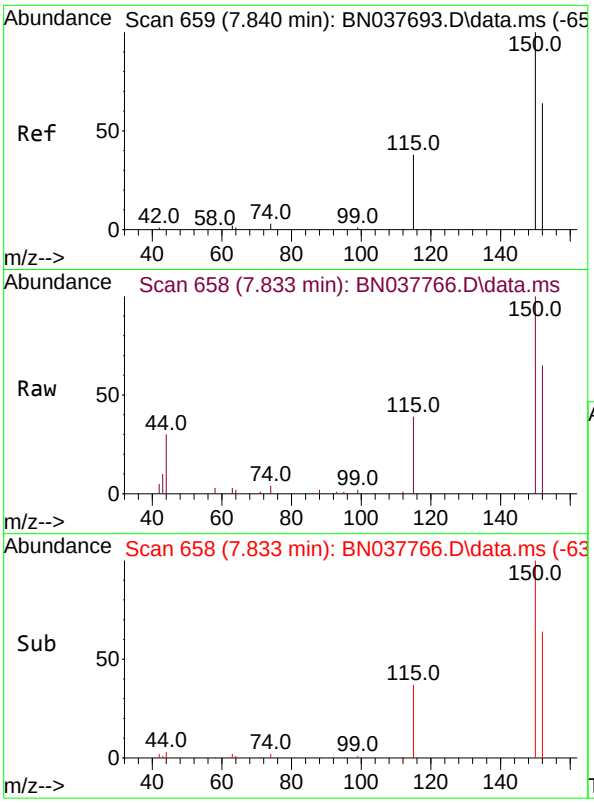
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN091725\
Data File : BN037766.D
Acq On : 18 Sep 2025 06:59
Operator : RC/JU
Sample : Q3095-18
Misc :
ALS Vial : 27 Sample Multiplier: 1

**Instrument :**
BNA_N
**ClientSampleId :**
RE126D2-20250909

Quant Time: Sep 18 07:55:18 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN091125.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Sep 11 14:20:01 2025
Response via : Initial Calibration



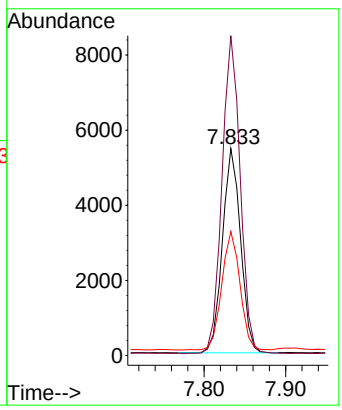


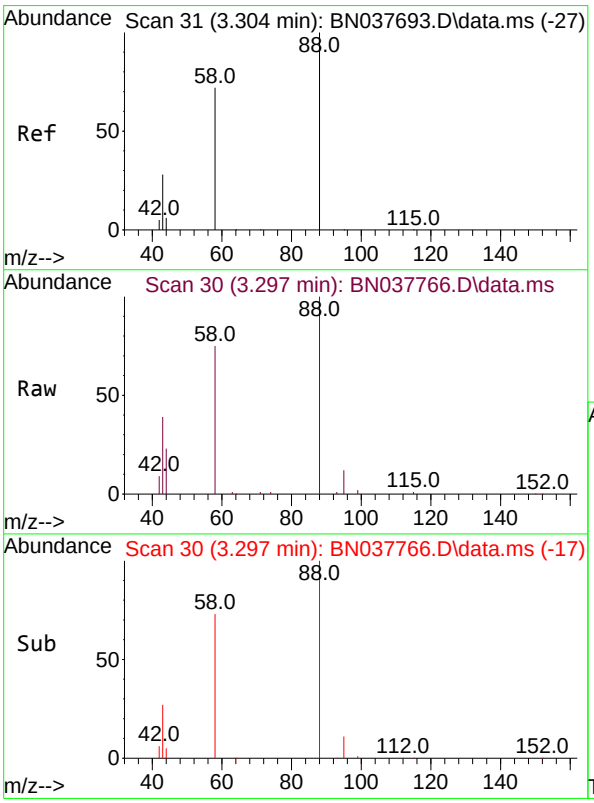

#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.833 min Scan# 6
Delta R.T. -0.007 min
Lab File: BN037766.D
Acq: 18 Sep 2025 06:59

**Instrument :**
BNA_N
**ClientSampleId :**
RE126D2-20250909

Tgt Ion:152 Resp: 8399

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 150 | 154.5 | 124.5 | 186.7 |
| 115 | 59.9 | 49.2 | 73.8 |

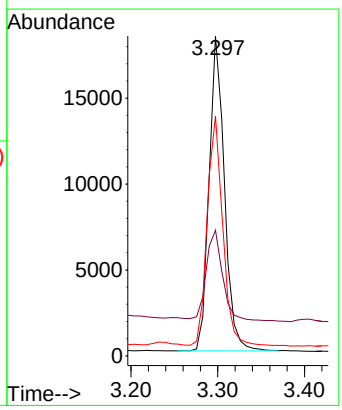


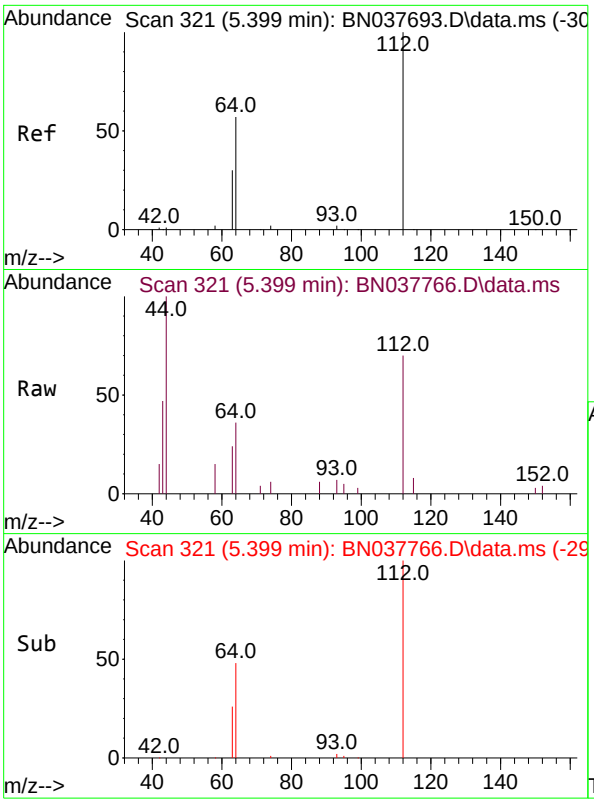




#2
1,4-Dioxane
Concen: 2.574 ng
RT: 3.297 min Scan# 30
Delta R.T. -0.007 min
Lab File: BN037766.D
Acq: 18 Sep 2025 06:59

Tgt Ion: 88 Resp: 22522

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 88 | 100 | | |
| 43 | 31.1 | 26.8 | 40.2 |
| 58 | 73.4 | 61.9 | 92.9 |



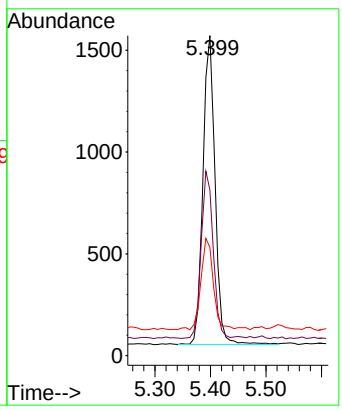


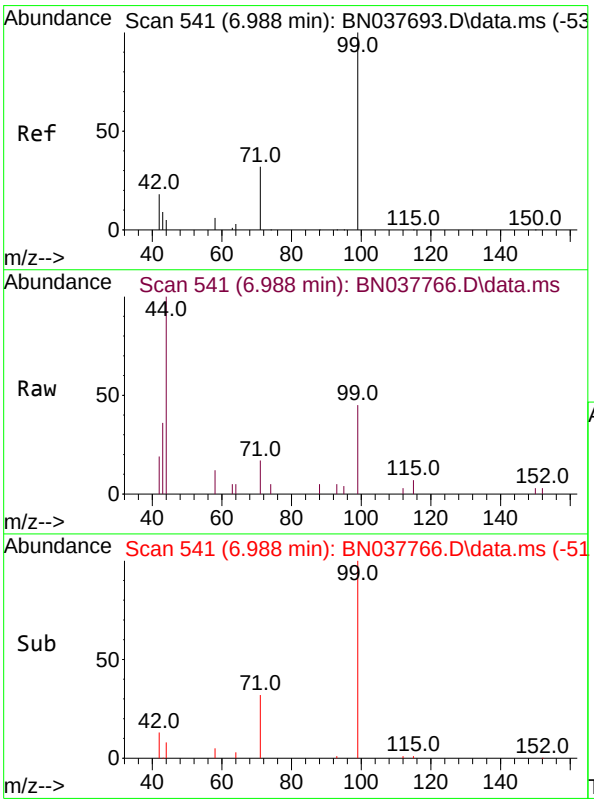

#4
2-Fluorophenol
Concen: 0.119 ng
RT: 5.399 min Scan# 3
Delta R.T. 0.000 min
Lab File: BN037766.D
Acq: 18 Sep 2025 06:59

**Instrument :**
BNA_N
**ClientSampleId :**
RE126D2-20250909

Tgt Ion:112 Resp: 2304

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 112 | 100 | | |
| 64 | 53.8 | 44.9 | 67.3 |
| 63 | 29.9 | 24.7 | 37.1 |

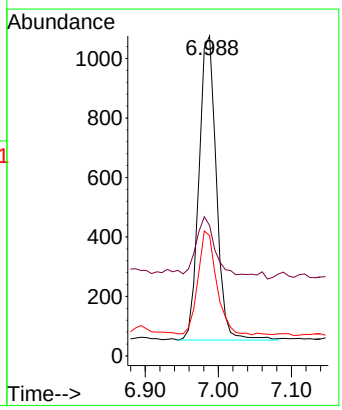


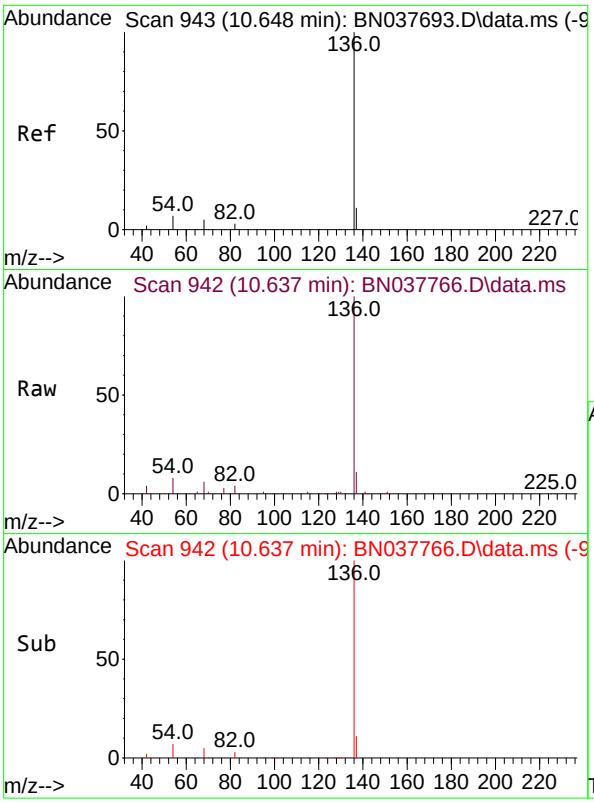




#5
Phenol-d6
Concen: 0.068 ng
RT: 6.988 min Scan# 541
Delta R.T. 0.000 min
Lab File: BN037766.D
Acq: 18 Sep 2025 06:59

Tgt Ion: 99 Resp: 1698

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 99 | 100 | | |
| 42 | 20.7 | 16.6 | 24.8 |
| 71 | 36.6 | 26.7 | 40.1 |



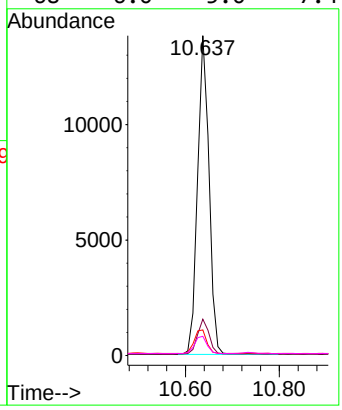


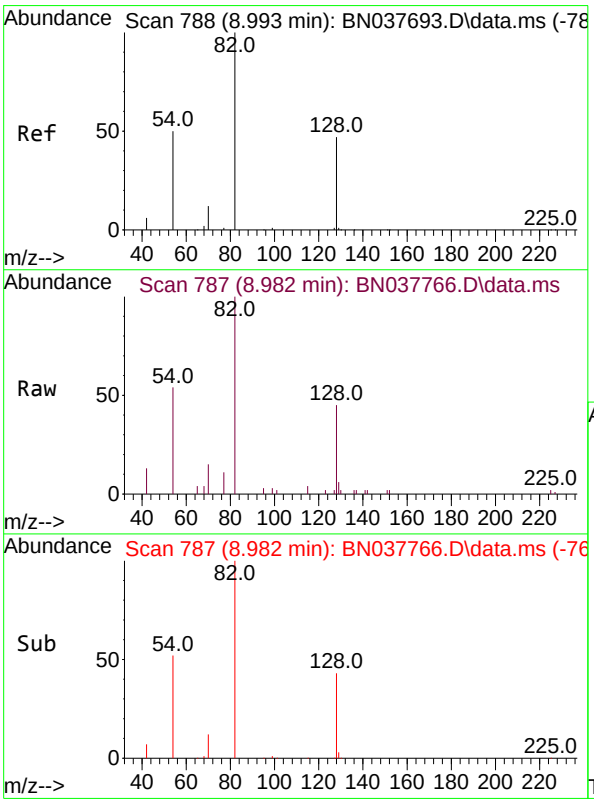

#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.637 min Scan# 94
Delta R.T. -0.011 min
Lab File: BN037766.D
Acq: 18 Sep 2025 06:59

**Instrument :**
BNA_N
**ClientSampleId :**
RE126D2-20250909

Tgt Ion:136 Resp: 23335

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 136 | 100 | | |
| 137 | 11.4 | 9.1 | 13.7 |
| 54 | 8.0 | 6.3 | 9.5 |
| 68 | 6.0 | 5.0 | 7.4 |

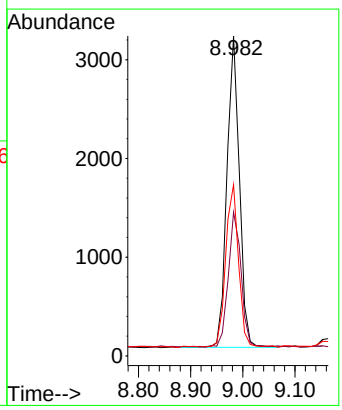


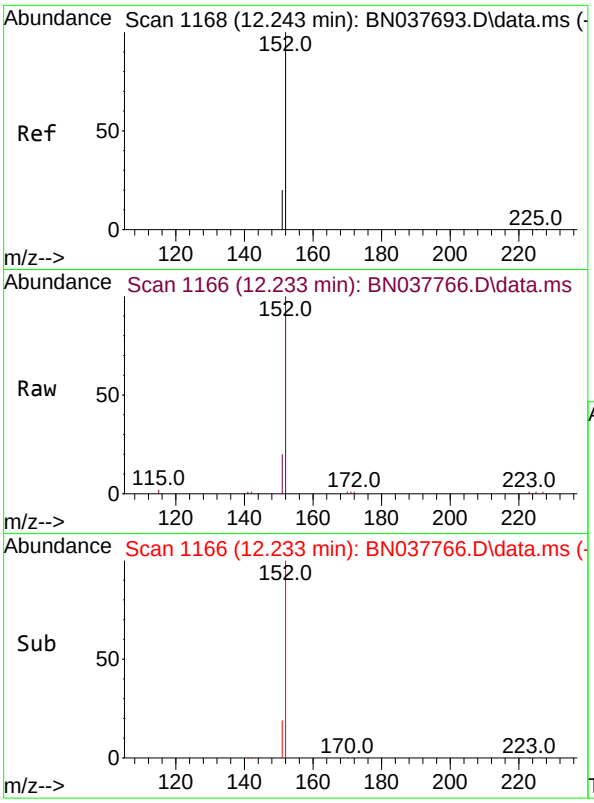




#8
Nitrobenzene-d5
Concen: 0.306 ng
RT: 8.982 min Scan# 787
Delta R.T. -0.011 min
Lab File: BN037766.D
Acq: 18 Sep 2025 06:59

Tgt Ion: 82 Resp: 5216

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 82 | 100 | | |
| 128 | 44.9 | 38.3 | 57.5 |
| 54 | 53.5 | 41.4 | 62.2 |



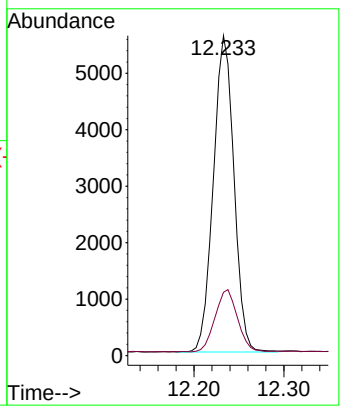


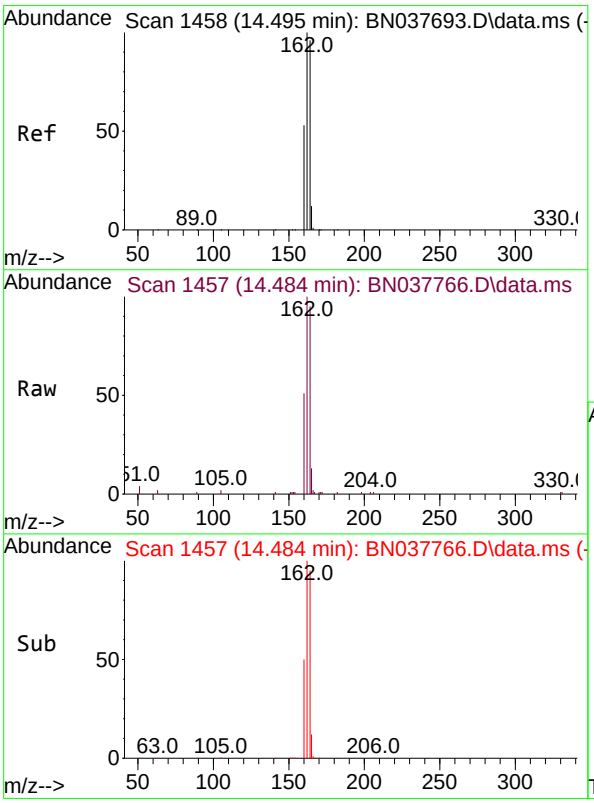

#11
2-Methylnaphthalene-d10
Concen: 0.290 ng
RT: 12.233 min Scan# 11
Delta R.T. -0.010 min
Lab File: BN037766.D
Acq: 18 Sep 2025 06:59

**Instrument :**
BNA_N
**ClientSampleId :**
RE126D2-20250909

Tgt Ion:152 Resp: 8958

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

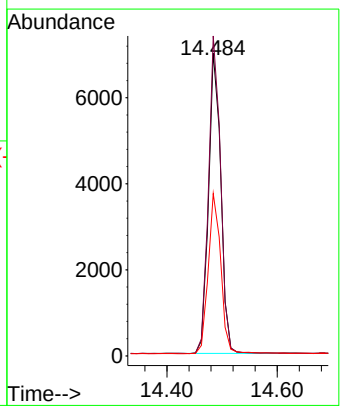


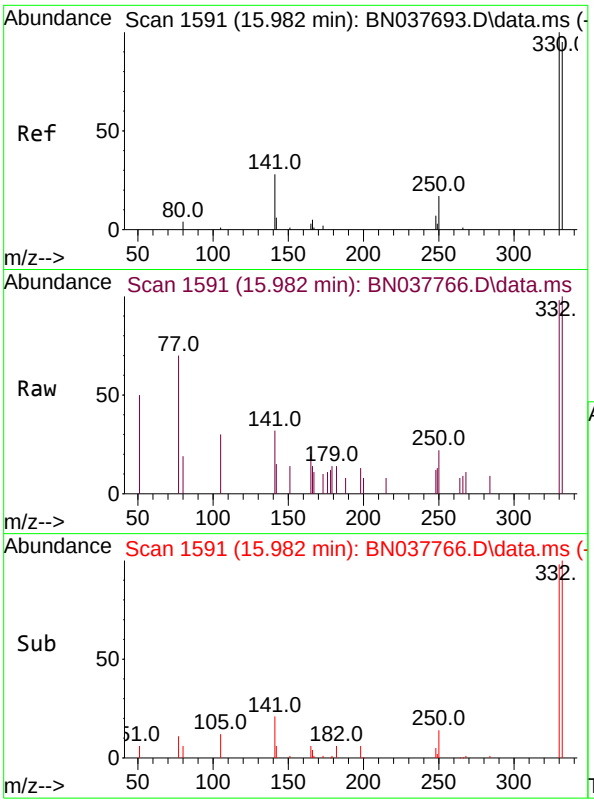




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.484 min Scan# 1457
Delta R.T. -0.011 min
Lab File: BN037766.D
Acq: 18 Sep 2025 06:59

Tgt Ion:164 Resp: 10732

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 164 | 100 | | |
| 162 | 105.6 | 83.1 | 124.7 |
| 160 | 53.6 | 44.3 | 66.5 |



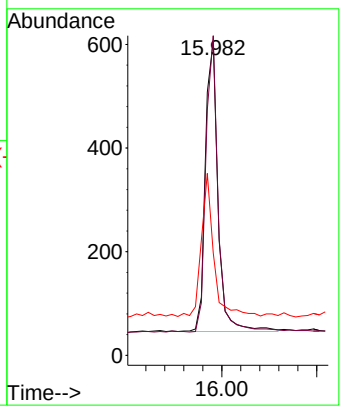


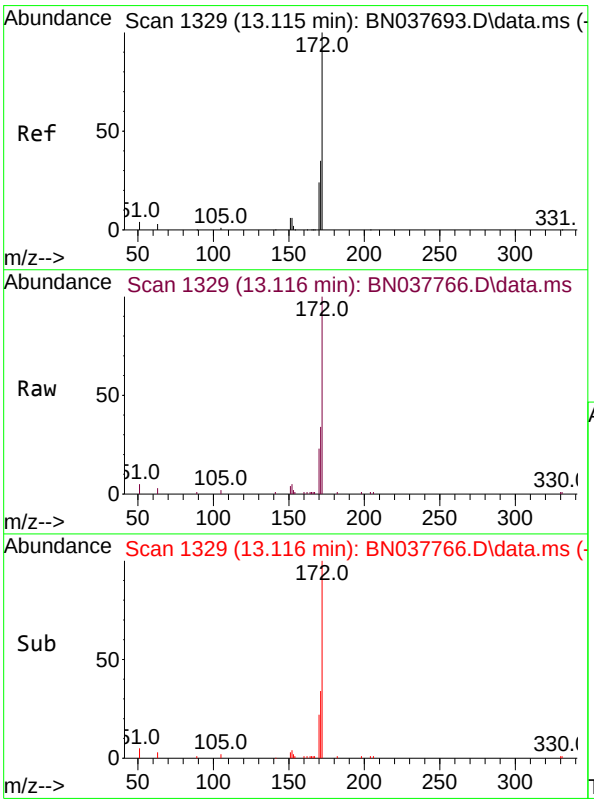

#14
2,4,6-Tribromophenol
Concen: 0.370 ng
RT: 15.982 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN037766.D
Acq: 18 Sep 2025 06:59

**Instrument :**
BNA_N
**ClientSampleId :**
RE126D2-20250909

Tgt Ion:330 Resp: 1036

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 330 | 100 | | |
| 332 | 98.0 | 75.3 | 112.9 |
| 141 | 47.9 | 35.0 | 52.4 |

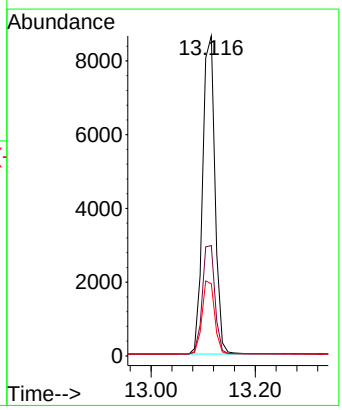


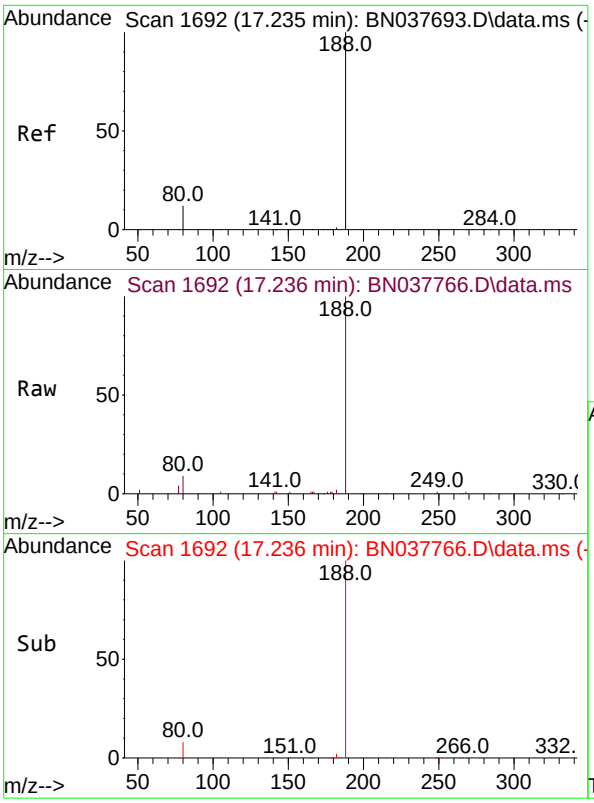




#15
2-Fluorobiphenyl
Concen: 0.317 ng
RT: 13.116 min Scan# 1329
Delta R.T. 0.000 min
Lab File: BN037766.D
Acq: 18 Sep 2025 06:59

Tgt Ion:172 Resp: 14218

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 172 | 100 | | |
| 171 | 34.5 | 28.6 | 43.0 |
| 170 | 22.5 | 19.8 | 29.8 |



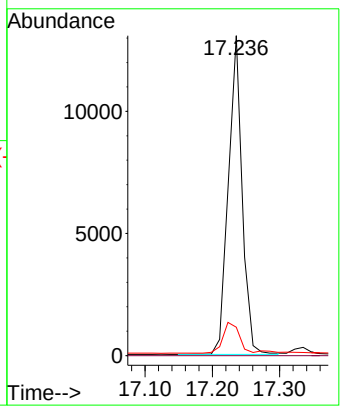


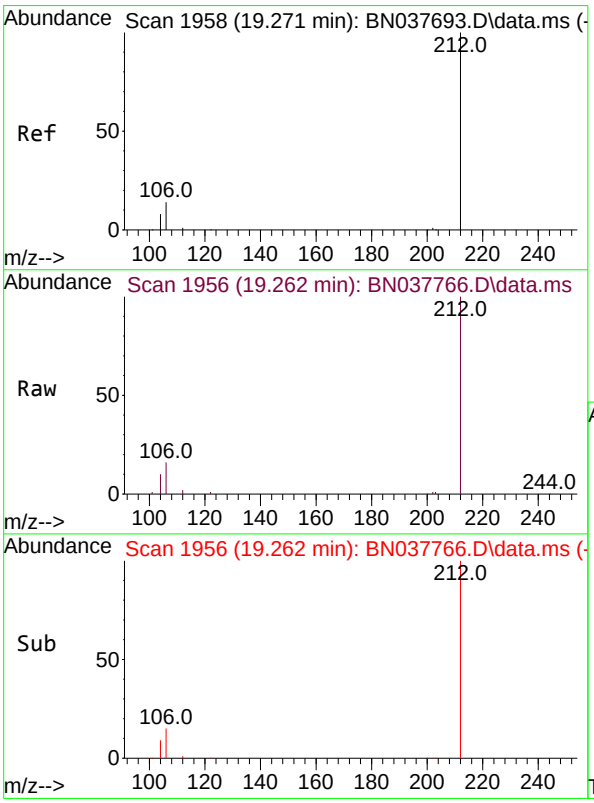

#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.236 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN037766.D
Acq: 18 Sep 2025 06:59

**Instrument :**
BNA_N
**ClientSampleId :**
RE126D2-20250909

Tgt Ion:188 Resp: 18615

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 188 | 100 | | |
| 94 | 0.0 | 0.0 | 0.0 |
| 80 | 8.9 | 10.6 | 15.8# |

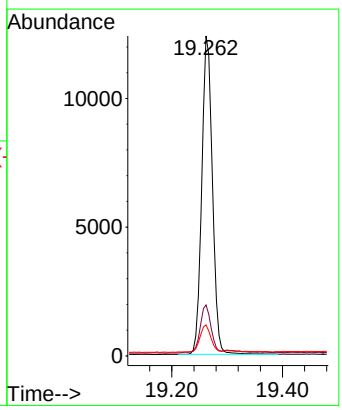


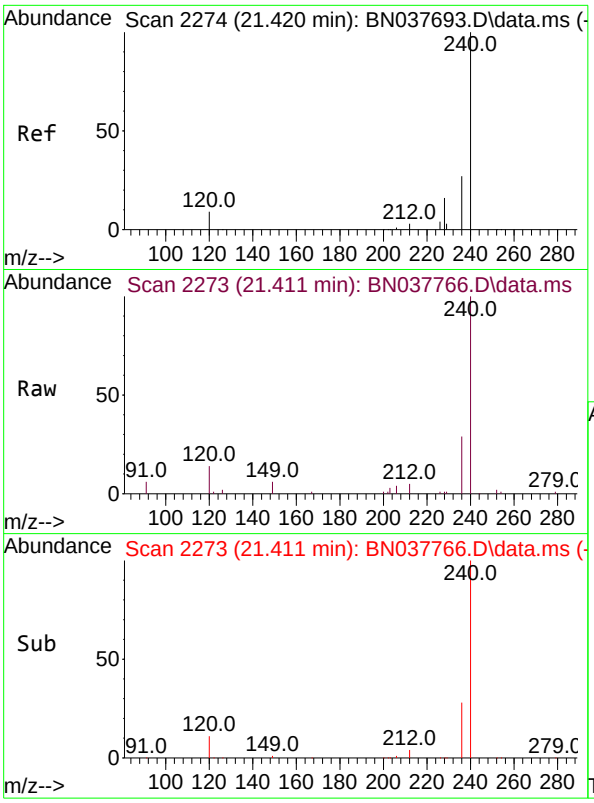




#27
Fluoranthene-d10
Concen: 0.351 ng
RT: 19.262 min Scan# 1956
Delta R.T. -0.009 min
Lab File: BN037766.D
Acq: 18 Sep 2025 06:59

Tgt Ion:212 Resp: 16425

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 212 | 100 | | |
| 106 | 15.7 | 12.2 | 18.2 |
| 104 | 8.8 | 6.9 | 10.3 |



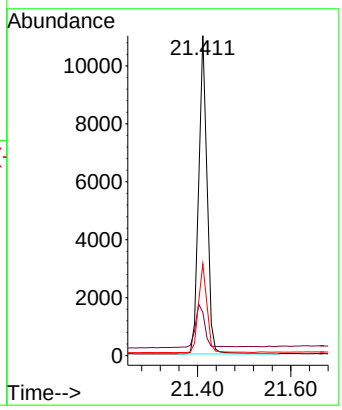


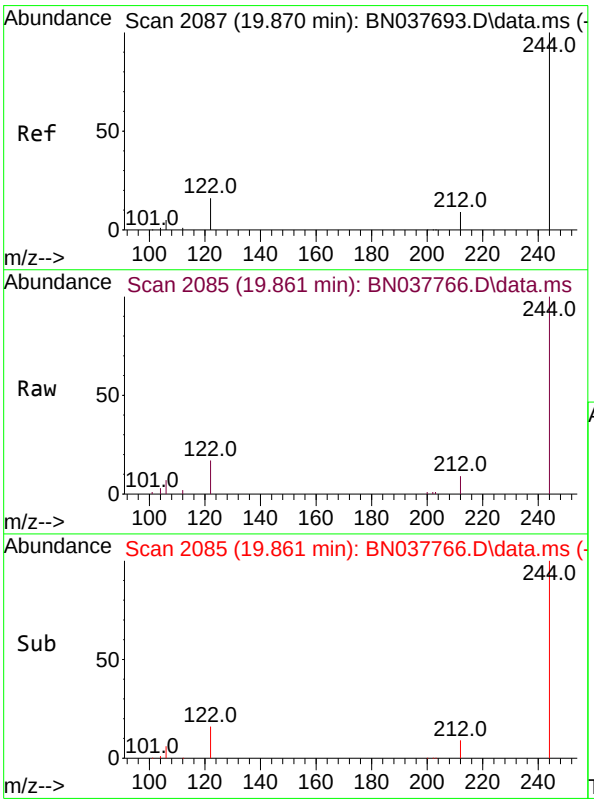

#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.411 min Scan# 2
Delta R.T. -0.009 min
Lab File: BN037766.D
Acq: 18 Sep 2025 06:59

**Instrument :**
BNA_N
**ClientSampleId :**
RE126D2-20250909

Tgt Ion:240 Resp: 13639

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 240 | 100 | | |
| 120 | 13.5 | 9.2 | 13.8 |
| 236 | 28.7 | 22.6 | 33.8 |

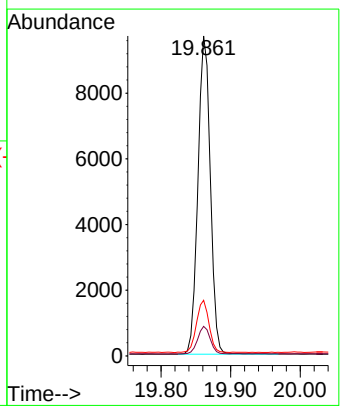


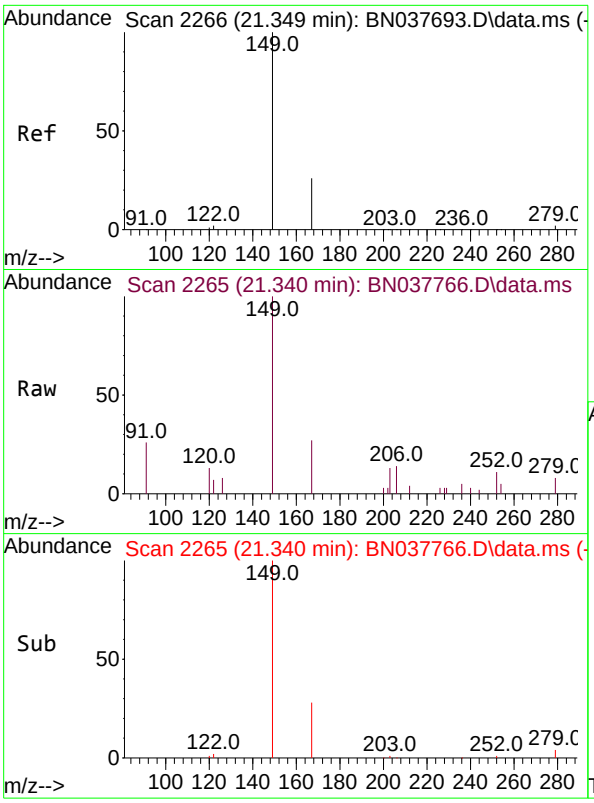




#31
Terphenyl-d14
Concen: 0.432 ng
RT: 19.861 min Scan# 2085
Delta R.T. -0.009 min
Lab File: BN037766.D
Acq: 18 Sep 2025 06:59

Tgt Ion:244 Resp: 11960

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 244 | 100 | | |
| 212 | 9.2 | 7.5 | 11.3 |
| 122 | 17.4 | 13.2 | 19.8 |



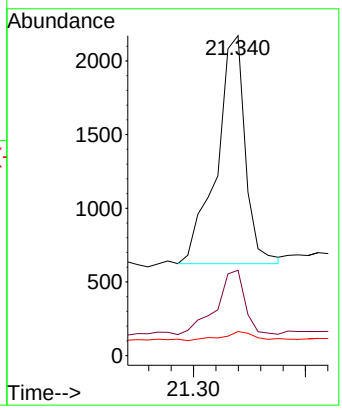


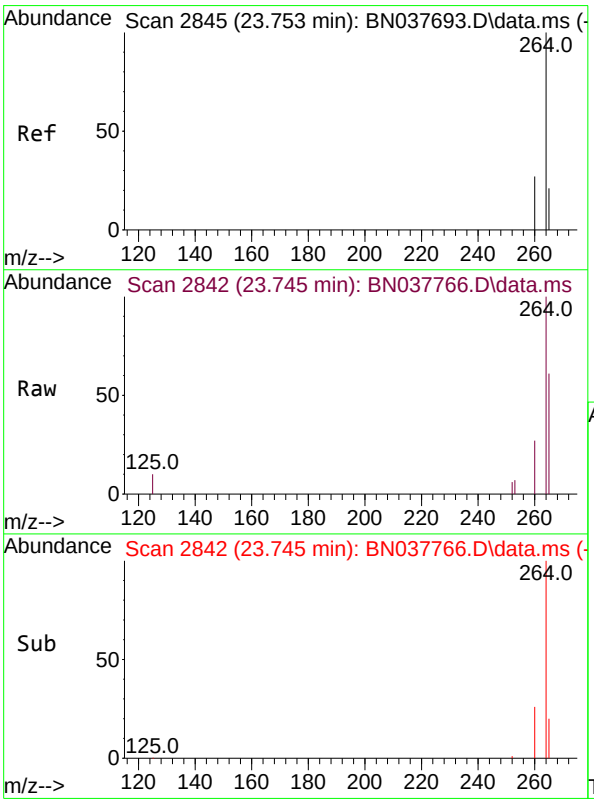

#34
Bis(2-ethylhexyl)phthalate
Concen: 0.195 ng
RT: 21.340 min Scan# 2
Delta R.T. -0.009 min
Lab File: BN037766.D
Acq: 18 Sep 2025 06:59

**Instrument :**
BNA_N
**ClientSampleId :**
RE126D2-20250909

Tgt Ion:149 Resp: 2756

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 149 | 100 | | |
| 167 | 28.0 | 20.8 | 31.2 |
| 279 | 4.9 | 3.3 | 4.9 |

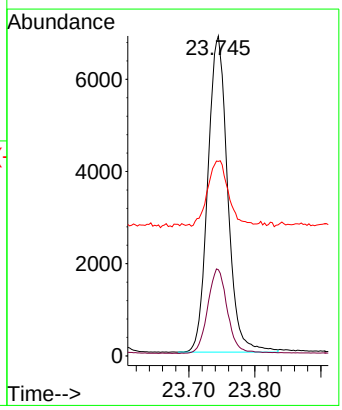



#35
Perylene-d12
Concen: 0.400 ng
RT: 23.745 min Scan# 2842
Delta R.T. -0.009 min
Lab File: BN037766.D
Acq: 18 Sep 2025 06:59

Tgt Ion:264 Resp: 14319

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 264 | 100 | | |
| 260 | 26.9 | 21.8 | 32.8 |
| 265 | 60.8 | 39.4 | 59.2# |



Raw Data: **BN037767.D**

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

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | AECOM Technical Services, Inc. | Date Collected: | 09/09/25 |
| Project: | NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258 | Date Received: | 09/12/25 |
| Client Sample ID: | RE126D3-20250909 | SDG No.: | Q3095 |
| Lab Sample ID: | Q3095-19 | Matrix: | Water |
| Analytical Method: | SW8270ESIM | % Solid: | 0 |
| Sample Wt/Vol: | 1000 Units: mL | Final Vol: | 1000 uL |
| Soil Aliquot Vol: | uL | Test: | SVOC-SIMGroup1 |
| Extraction Type : | Decanted : N | Level : | LOW |
| Injection Volume : | GPC Factor : 1.0 | GPC Cleanup : | N PH : |
| Prep Method : | | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| BN037767.D | 1 | 09/15/25 10:15 | 09/18/25 07:35 | PB169692 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOD | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | | |
| 123-91-1 | 1,4-Dioxane | 0.43 | | 0.070 | 0.20 | 0.20 | ug/L |
| **SURROGATES** | | | | | | | |
| 7297-45-2 | 2-Methylnaphthalene-d10 | 0.34 | | 30 - 150 | | 85% | SPK: 0.4 |
| 93951-69-0 | Fluoranthene-d10 | 0.41 | | 30 - 150 | | 103% | SPK: 0.4 |
| 4165-60-0 | Nitrobenzene-d5 | 0.37 | | 55 - 111 | | 93% | SPK: 0.4 |
| 321-60-8 | 2-Fluorobiphenyl | 0.38 | | 53 - 106 | | 95% | SPK: 0.4 |
| 1718-51-0 | Terphenyl-d14 | 0.48 | | 58 - 132 | | 120% | SPK: 0.4 |
| **INTERNAL STANDARDS** | | | | | | | |
| 3855-82-1 | 1,4-Dichlorobenzene-d4 | 8360 | 7.833 | | | | |
| 1146-65-2 | Naphthalene-d8 | 22900 | 10.637 | | | | |
| 15067-26-2 | Acenaphthene-d10 | 10200 | 14.484 | | | | |
| 1517-22-2 | Phenanthrene-d10 | 17500 | 17.236 | | | | |
| 1719-03-5 | Chrysene-d12 | 14100 | 21.411 | | | | |
| 1520-96-3 | Perylene-d12 | 14400 | 23.745 | | | | |

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

Sample Results: **BN037767.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN091725\
Data File : BN037767.D
Acq On : 18 Sep 2025 07:35
Operator : RC/JU
Sample : Q3095-19
Misc :
ALS Vial : 28 Sample Multiplier: 1

**Instrument :**
BNA_N
**ClientSampleId :**
RE126D3-20250909

Quant Time: Sep 18 07:59:45 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN091125.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Sep 11 14:20:01 2025
Response via : Initial Calibration

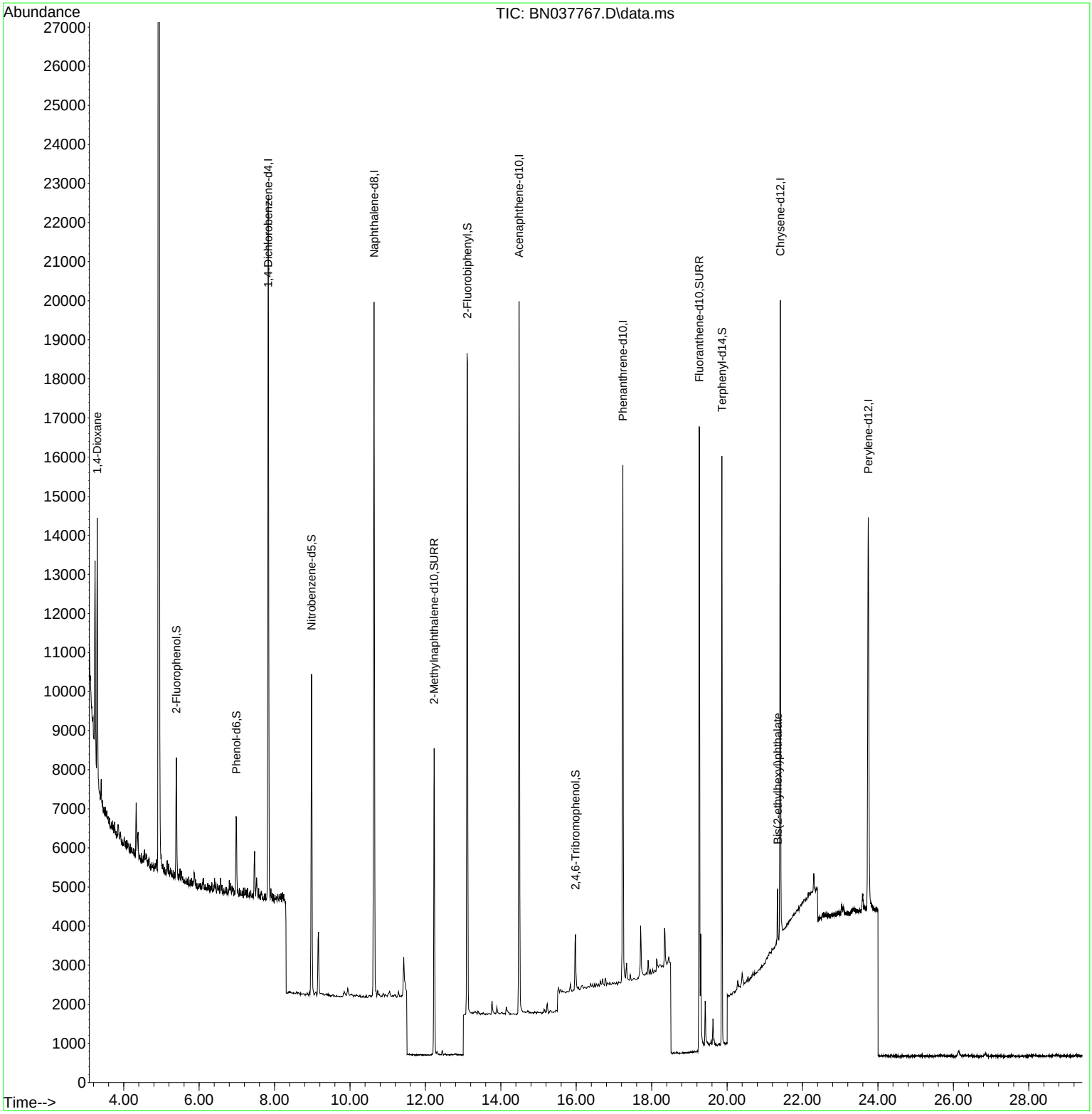
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) 1,4-Dichlorobenzene-d4 | 7.833 | 152 | 8360 | 0.400 | ng | 0.00 |
| 7) Naphthalene-d8 | 10.637 | 136 | 22865 | 0.400 | ng | -0.01 |
| 13) Acenaphthene-d10 | 14.484 | 164 | 10200 | 0.400 | ng | -0.01 |
| 19) Phenanthrene-d10 | 17.236 | 188 | 17532 | 0.400 | ng | # 0.00 |
| 29) Chrysene-d12 | 21.411 | 240 | 14129 | 0.400 | ng | # 0.00 |
| 35) Perylene-d12 | 23.745 | 264 | 14395 | 0.400 | ng | # 0.00 |
| System Monitoring Compounds | | | | | | |
| 4) 2-Fluorophenol | 5.399 | 112 | 2560 | 0.133 | ng | 0.00 |
| 5) Phenol-d6 | 6.988 | 99 | 1878 | 0.075 | ng | 0.00 |
| 8) Nitrobenzene-d5 | 8.982 | 82 | 6211 | 0.371 | ng | -0.01 |
| 11) 2-Methylnaphthalene-d10 | 12.233 | 152 | 10276 | 0.339 | ng | -0.01 |
| 14) 2,4,6-Tribromophenol | 15.982 | 330 | 987 | 0.371 | ng | 0.00 |
| 15) 2-Fluorobiphenyl | 13.116 | 172 | 16260 | 0.381 | ng | 0.00 |
| 27) Fluoranthene-d10 | 19.262 | 212 | 18084 | 0.411 | ng | 0.00 |
| 31) Terphenyl-d14 | 19.861 | 244 | 13760 | 0.480 | ng | 0.00 |
| Target Compounds | | | | | | Qvalue |
| 2) 1,4-Dioxane | 3.297 | 88 | 3731 | 0.428 | ng | # 93 |
| 34) Bis(2-ethylhexyl)phtha... | 21.340 | 149 | 1409 | 0.096 | ng | 99 |

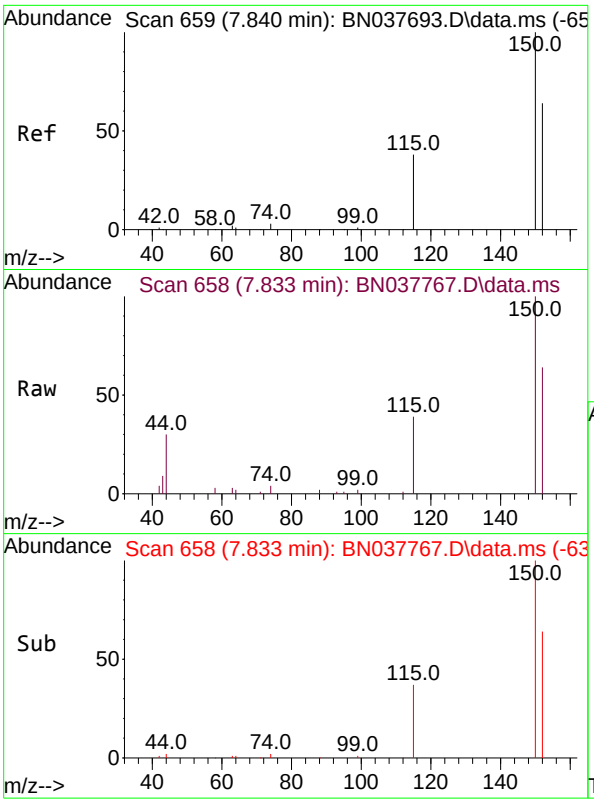
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN091725\
Data File : BN037767.D
Acq On : 18 Sep 2025 07:35
Operator : RC/JU
Sample : Q3095-19
Misc :
ALS Vial : 28 Sample Multiplier: 1

**Instrument :**
BNA_N
**ClientSampleId :**
RE126D3-20250909

Quant Time: Sep 18 07:59:45 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN091125.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Sep 11 14:20:01 2025
Response via : Initial Calibration



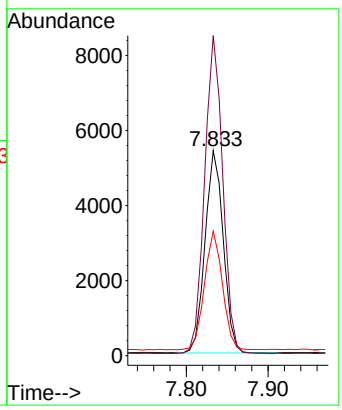


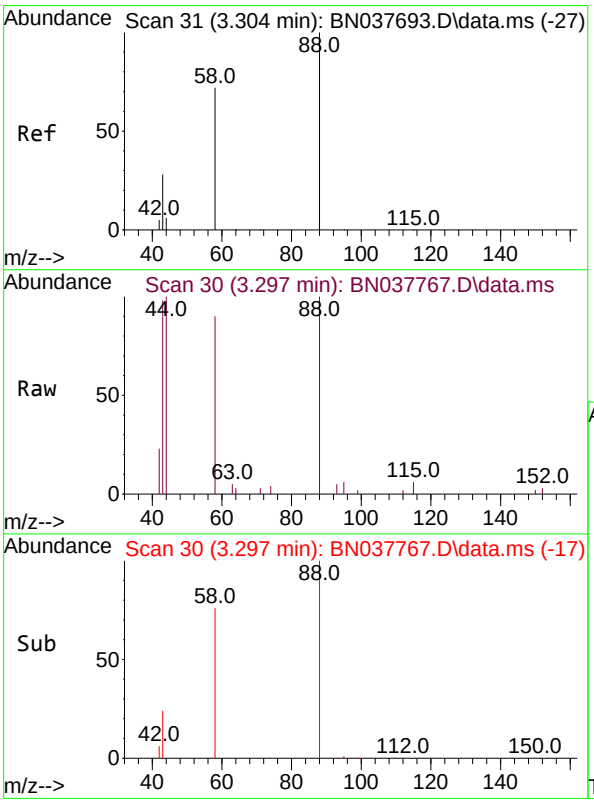

#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.833 min Scan# 6
Delta R.T. -0.007 min
Lab File: BN037767.D
Acq: 18 Sep 2025 07:35

**Instrument :**
BNA_N
**ClientSampleId :**
RE126D3-20250909

Tgt Ion:152 Resp: 8360

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 150 | 156.2 | 124.5 | 186.7 |
| 115 | 60.8 | 49.2 | 73.8 |

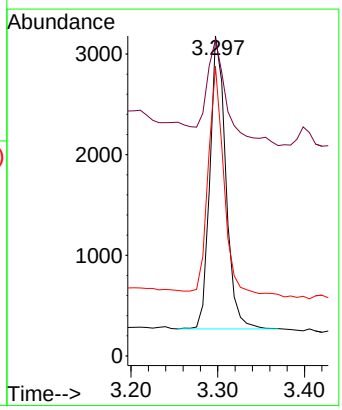


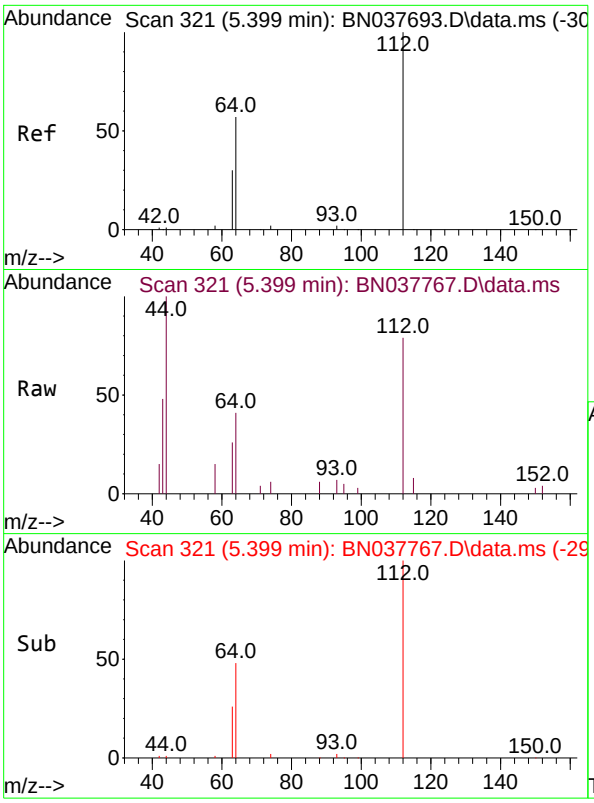




#2
1,4-Dioxane
Concen: 0.428 ng
RT: 3.297 min Scan# 30
Delta R.T. -0.007 min
Lab File: BN037767.D
Acq: 18 Sep 2025 07:35

Tgt Ion: 88 Resp: 3731

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 88 | 100 | | |
| 43 | 45.5 | 26.8 | 40.2# |
| 58 | 76.1 | 61.9 | 92.9 |



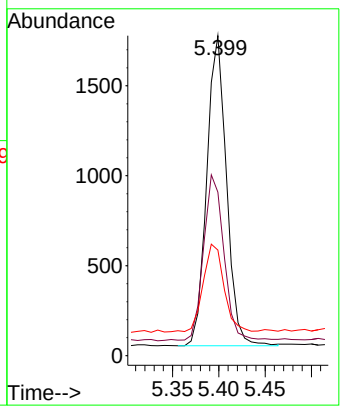


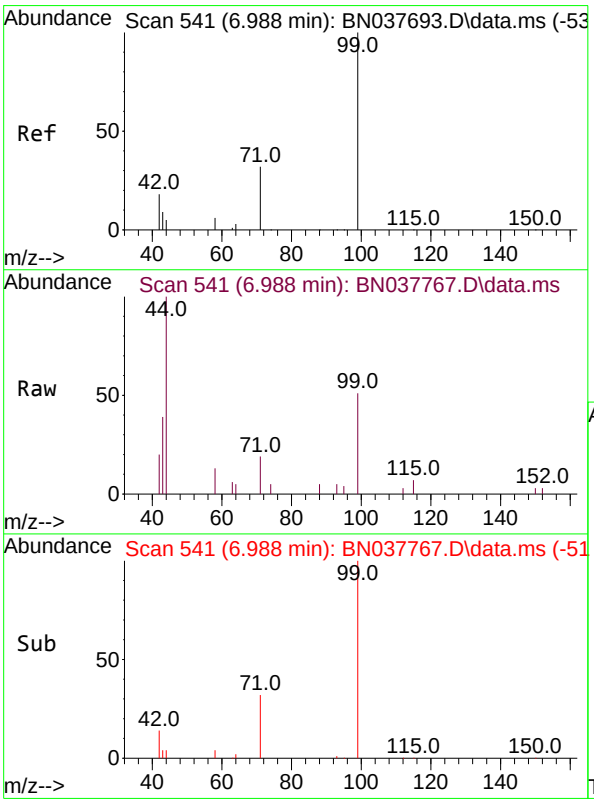

#4
2-Fluorophenol
Concen: 0.133 ng
RT: 5.399 min Scan# 3
Delta R.T. 0.000 min
Lab File: BN037767.D
Acq: 18 Sep 2025 07:35

**Instrument :**
BNA_N
**ClientSampleId :**
RE126D3-20250909

Tgt Ion:112 Resp: 2560

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 112 | 100 | | |
| 64 | 55.7 | 44.9 | 67.3 |
| 63 | 29.7 | 24.7 | 37.1 |

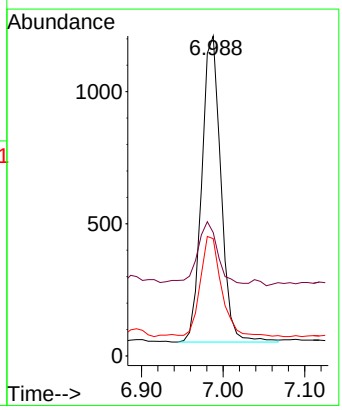


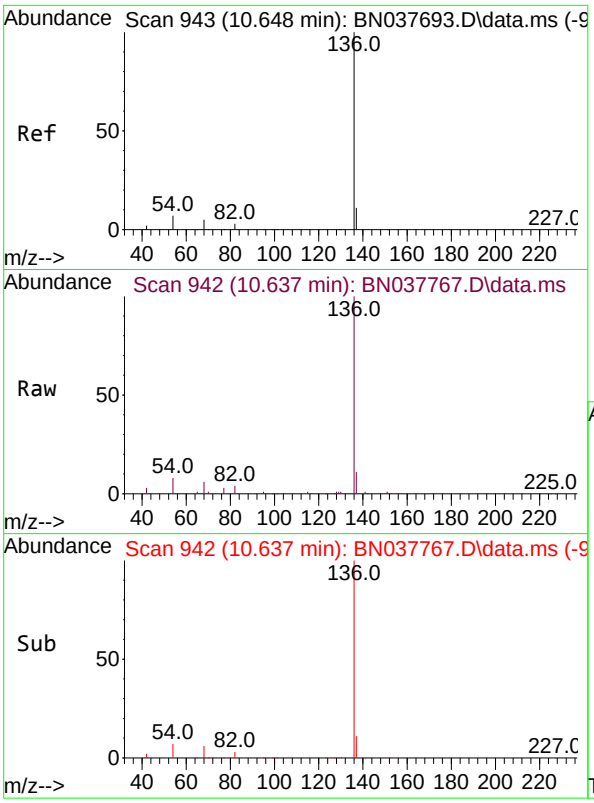




#5
Phenol-d6
Concen: 0.075 ng
RT: 6.988 min Scan# 541
Delta R.T. 0.000 min
Lab File: BN037767.D
Acq: 18 Sep 2025 07:35

Tgt Ion: 99 Resp: 1878

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 99 | 100 | | |
| 42 | 20.6 | 16.6 | 24.8 |
| 71 | 37.8 | 26.7 | 40.1 |



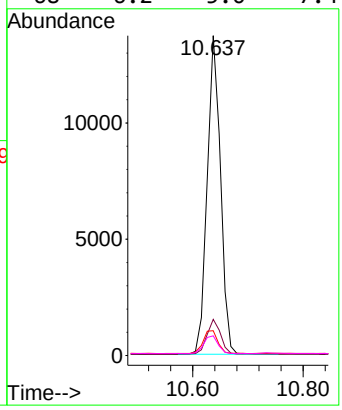


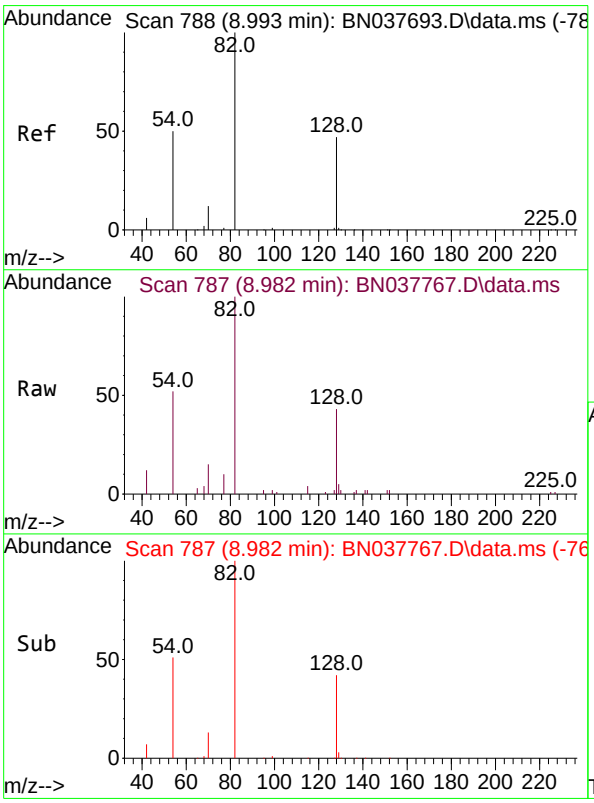

#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.637 min Scan# 94
Delta R.T. -0.011 min
Lab File: BN037767.D
Acq: 18 Sep 2025 07:35

**Instrument :**
BNA_N
**ClientSampleId :**
RE126D3-20250909

Tgt Ion:136 Resp: 22865

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 136 | 100 | | |
| 137 | 11.3 | 9.1 | 13.7 |
| 54 | 7.7 | 6.3 | 9.5 |
| 68 | 6.2 | 5.0 | 7.4 |

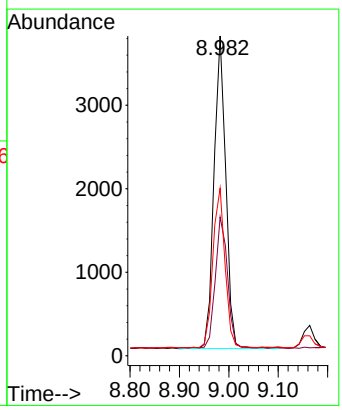


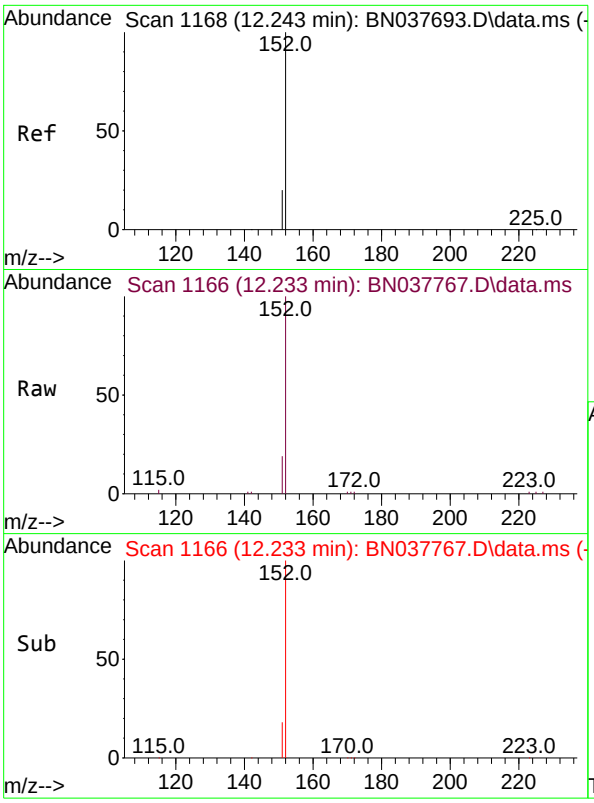




#8
Nitrobenzene-d5
Concen: 0.371 ng
RT: 8.982 min Scan# 787
Delta R.T. -0.011 min
Lab File: BN037767.D
Acq: 18 Sep 2025 07:35

Tgt Ion: 82 Resp: 6211

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 82 | 100 | | |
| 128 | 43.4 | 38.3 | 57.5 |
| 54 | 52.4 | 41.4 | 62.2 |



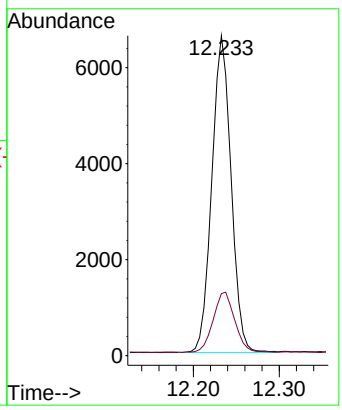


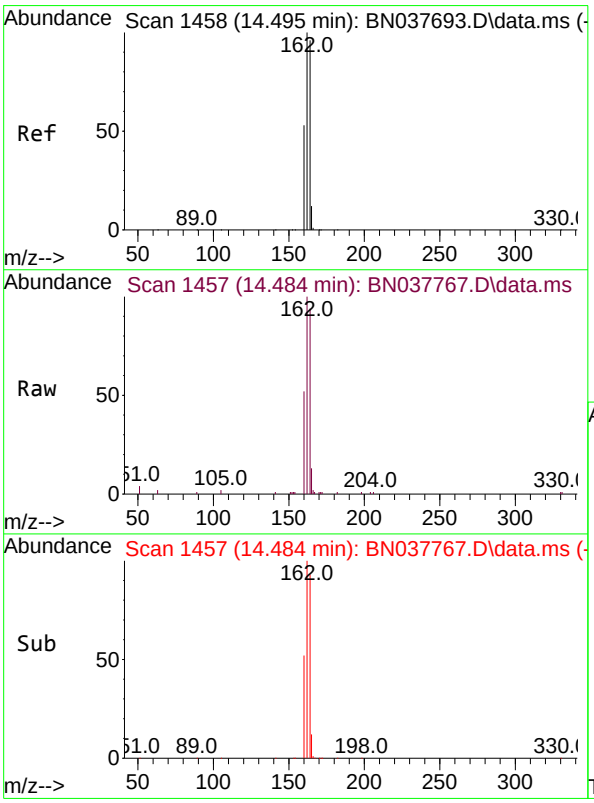

#11
2-Methylnaphthalene-d10
Concen: 0.339 ng
RT: 12.233 min Scan# 11
Delta R.T. -0.010 min
Lab File: BN037767.D
Acq: 18 Sep 2025 07:35

**Instrument :**
BNA_N
**ClientSampleId :**
RE126D3-20250909

Tgt Ion:152 Resp: 10276

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

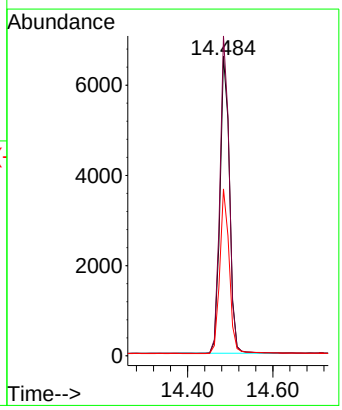


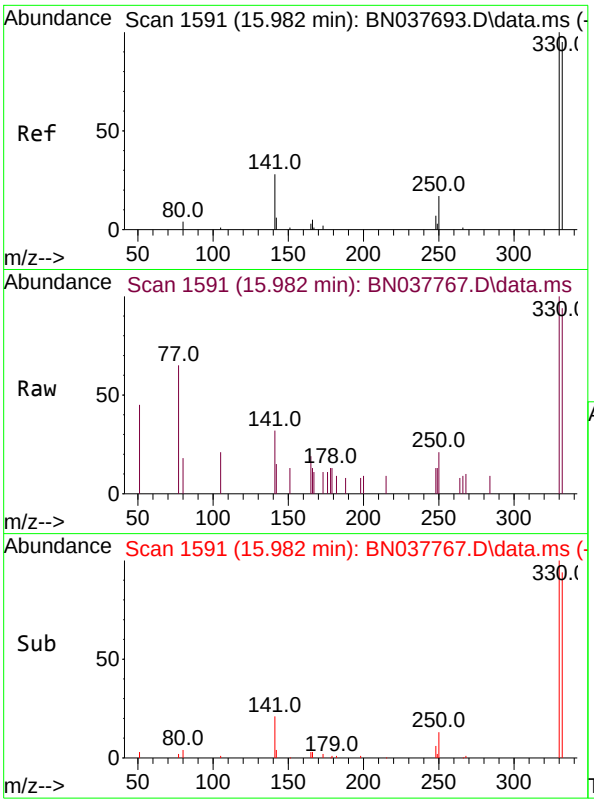




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.484 min Scan# 1457
Delta R.T. -0.011 min
Lab File: BN037767.D
Acq: 18 Sep 2025 07:35

Tgt Ion:164 Resp: 10200

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 164 | 100 | | |
| 162 | 106.9 | 83.1 | 124.7 |
| 160 | 55.8 | 44.3 | 66.5 |



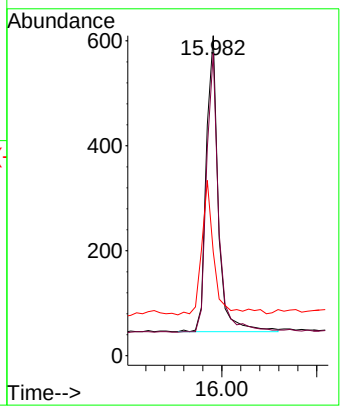


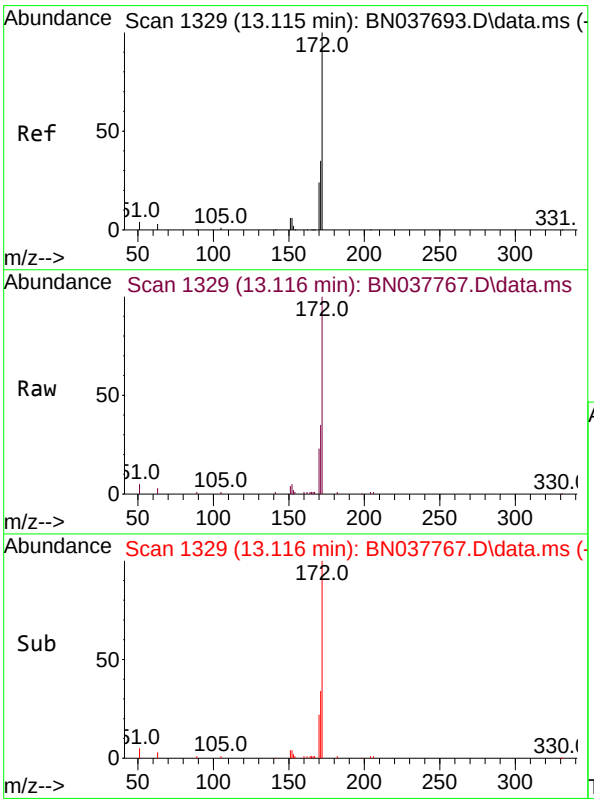

#14
2,4,6-Tribromophenol
Concen: 0.371 ng
RT: 15.982 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN037767.D
Acq: 18 Sep 2025 07:35

**Instrument :**
BNA_N
**ClientSampleId :**
RE126D3-20250909

Tgt Ion:330 Resp: 987

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 330 | 100 | | |
| 332 | 95.0 | 75.3 | 112.9 |
| 141 | 44.8 | 35.0 | 52.4 |

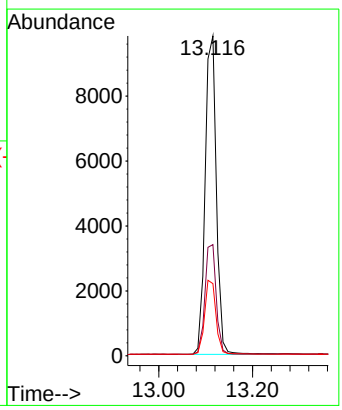


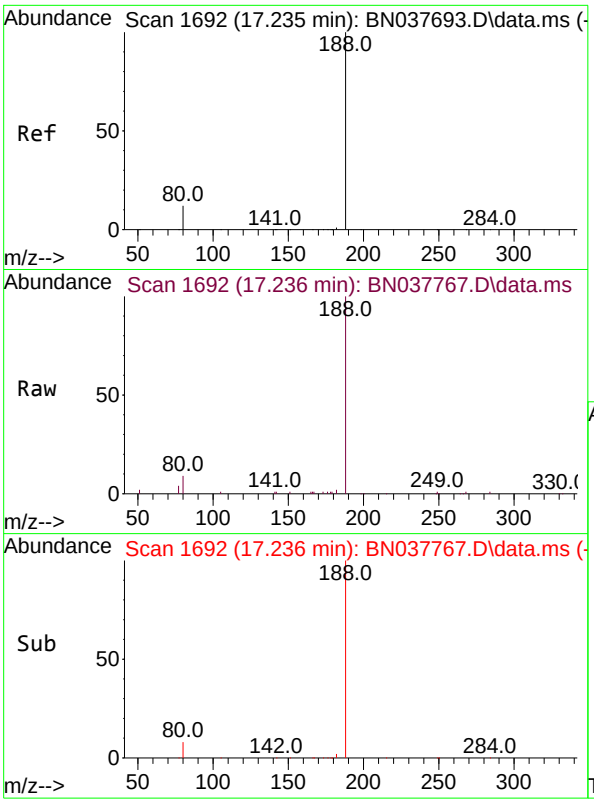




#15
2-Fluorobiphenyl
Concen: 0.381 ng
RT: 13.116 min Scan# 1329
Delta R.T. 0.000 min
Lab File: BN037767.D
Acq: 18 Sep 2025 07:35

Tgt Ion:172 Resp: 16260

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 172 | 100 | | |
| 171 | 34.8 | 28.6 | 43.0 |
| 170 | 22.6 | 19.8 | 29.8 |



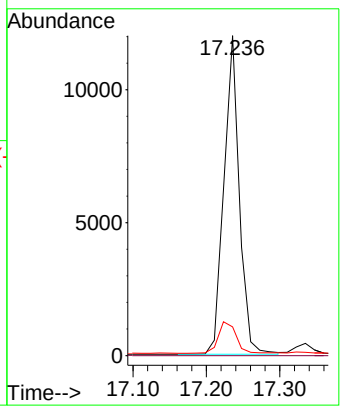


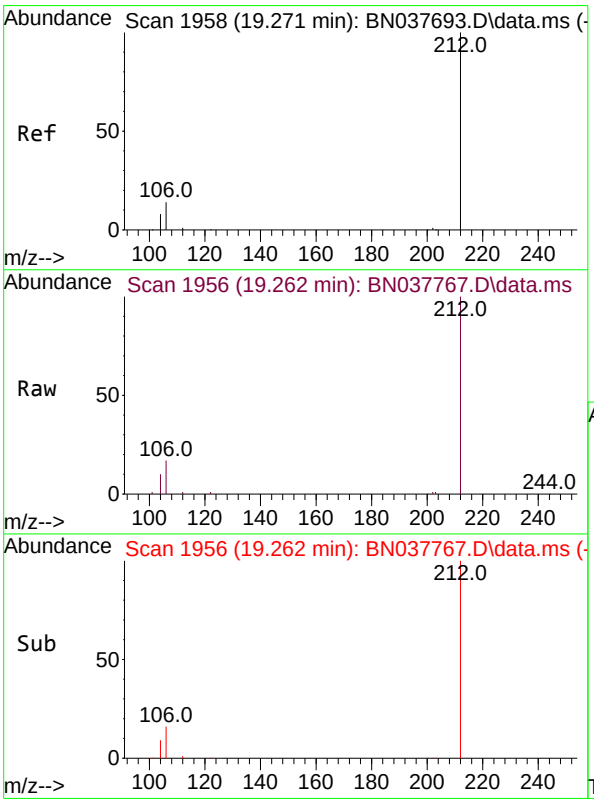

#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.236 min Scan# 1(
Delta R.T. 0.000 min
Lab File: BN037767.D
Acq: 18 Sep 2025 07:35

**Instrument :**
BNA_N
**ClientSampleId :**
RE126D3-20250909

Tgt Ion:188 Resp: 17532

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 188 | 100 | | |
| 94 | 0.0 | 0.0 | 0.0 |
| 80 | 9.0 | 10.6 | 15.8# |

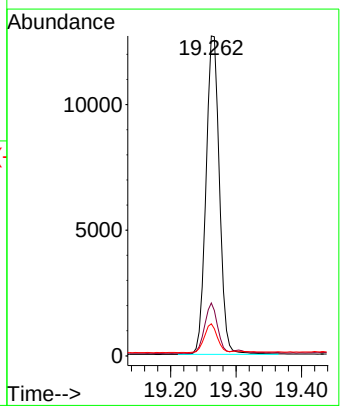


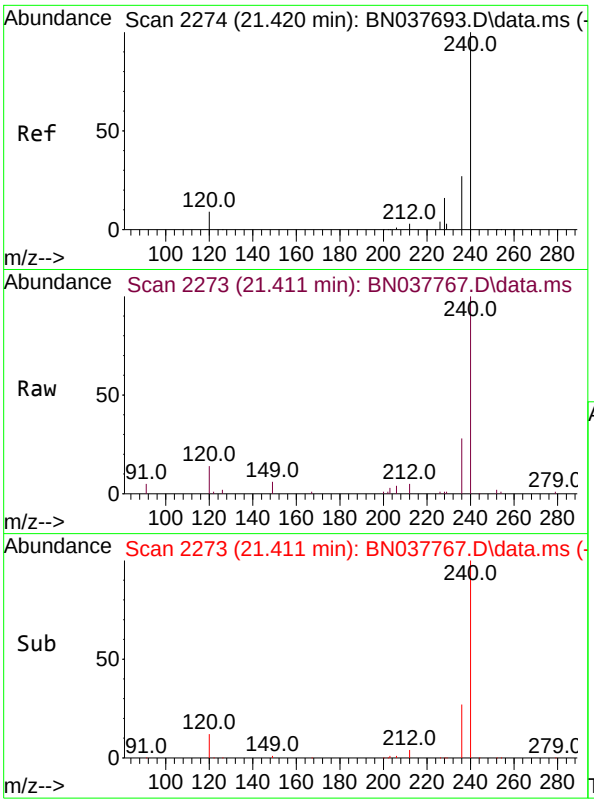




#27
Fluoranthene-d10
Concen: 0.411 ng
RT: 19.262 min Scan# 1956
Delta R.T. -0.009 min
Lab File: BN037767.D
Acq: 18 Sep 2025 07:35

Tgt Ion:212 Resp: 18084

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 212 | 100 | | |
| 106 | 15.1 | 12.2 | 18.2 |
| 104 | 8.7 | 6.9 | 10.3 |



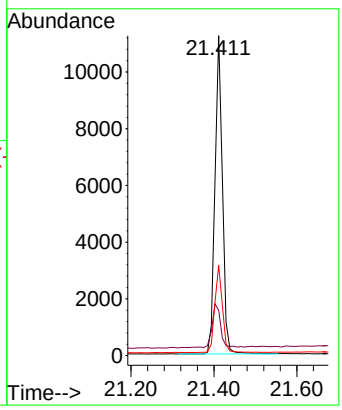


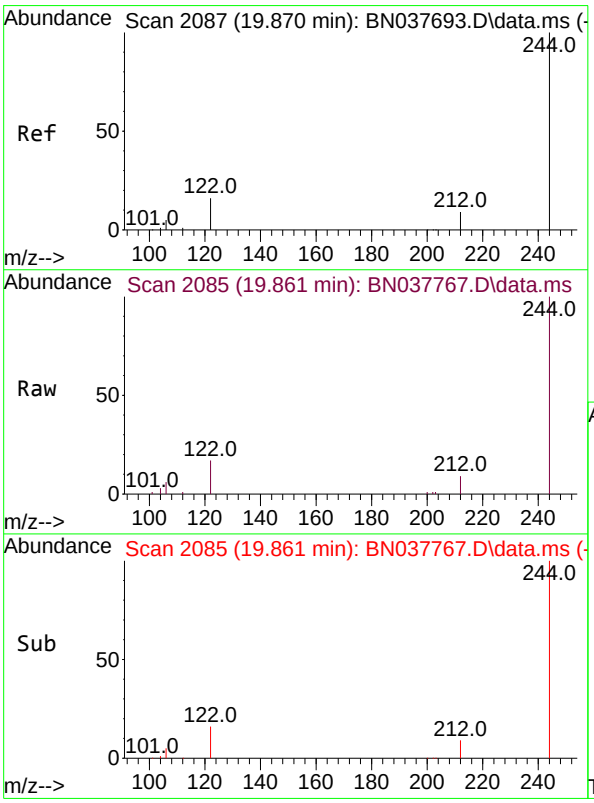

#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.411 min Scan# 2
Delta R.T. -0.009 min
Lab File: BN037767.D
Acq: 18 Sep 2025 07:35

**Instrument :**
BNA_N
**ClientSampleId :**
RE126D3-20250909

Tgt Ion:240 Resp: 14129

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 240 | 100 | | |
| 120 | 14.2 | 9.2 | 13.8# |
| 236 | 28.2 | 22.6 | 33.8 |

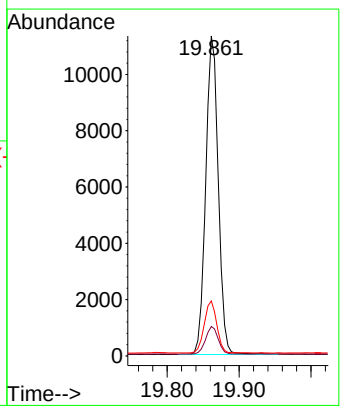


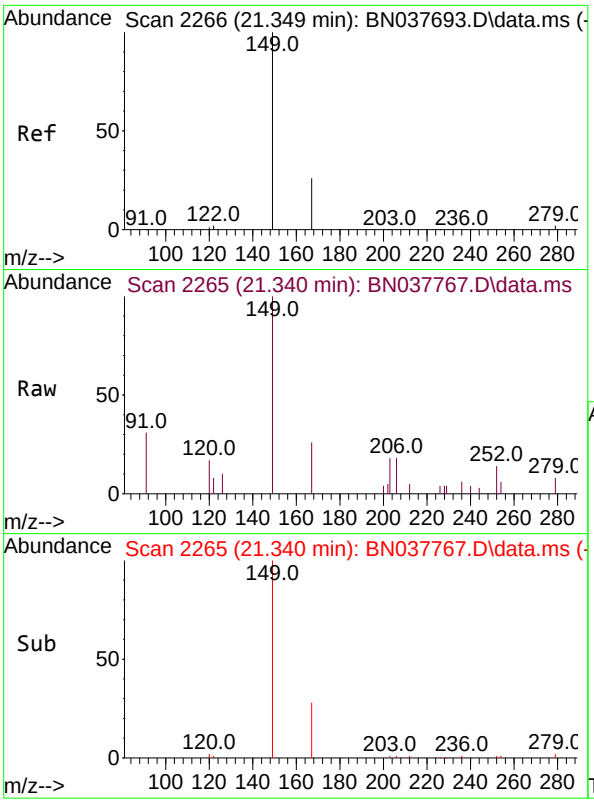




#31
Terphenyl-d14
Concen: 0.480 ng
RT: 19.861 min Scan# 2085
Delta R.T. -0.009 min
Lab File: BN037767.D
Acq: 18 Sep 2025 07:35

Tgt Ion:244 Resp: 13760

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 244 | 100 | | |
| 212 | 9.2 | 7.5 | 11.3 |
| 122 | 17.2 | 13.2 | 19.8 |



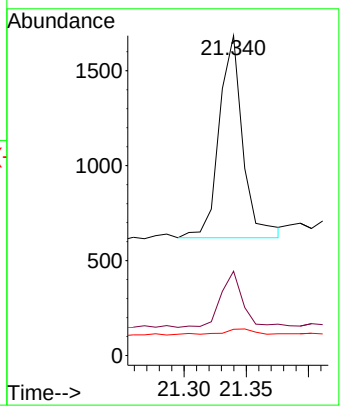


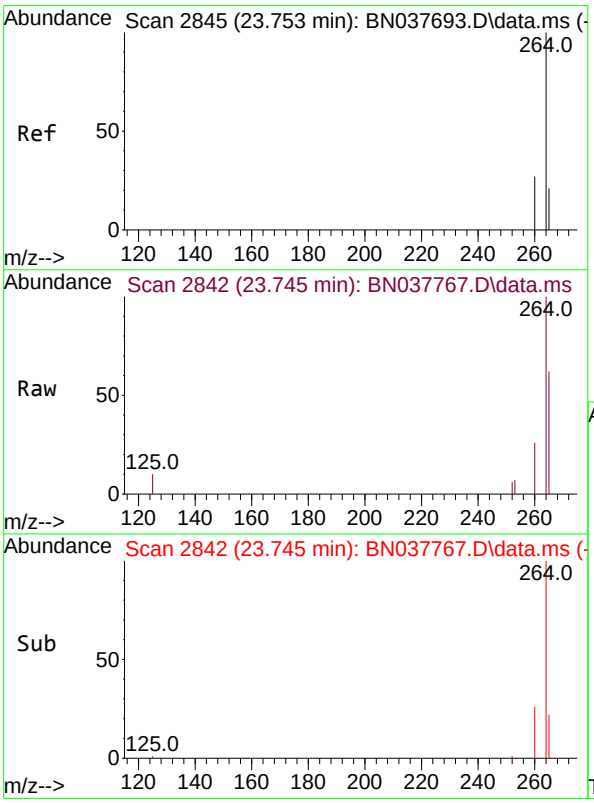

#34
Bis(2-ethylhexyl)phthalate
Concen: 0.096 ng
RT: 21.340 min Scan# 2
Delta R.T. -0.009 min
Lab File: BN037767.D
Acq: 18 Sep 2025 07:35

**Instrument :**
BNA_N
**ClientSampleId :**
RE126D3-20250909

Tgt Ion:149 Resp: 1409

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 149 | 100 | | |
| 167 | 26.6 | 20.8 | 31.2 |
| 279 | 4.6 | 3.3 | 4.9 |

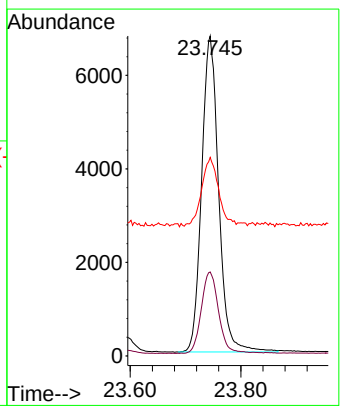



#35
Perylene-d12
Concen: 0.400 ng
RT: 23.745 min Scan# 2842
Delta R.T. -0.009 min
Lab File: BN037767.D
Acq: 18 Sep 2025 07:35

Tgt Ion:264 Resp: 14395

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 264 | 100 | | |
| 260 | 26.2 | 21.8 | 32.8 |
| 265 | 62.0 | 39.4 | 59.2# |



Raw Data: **BN037768.D**

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

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | AECOM Technical Services, Inc. | Date Collected: | 09/10/25 |
| Project: | NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258 | Date Received: | 09/12/25 |
| Client Sample ID: | MW178S-20250910 | SDG No.: | Q3095 |
| Lab Sample ID: | Q3095-20 | Matrix: | Water |
| Analytical Method: | SW8270ESIM | % Solid: | 0 |
| Sample Wt/Vol: | 1000 Units: mL | Final Vol: | 1000 uL |
| Soil Aliquot Vol: | uL | Test: | SVOC-SIMGroup1 |
| Extraction Type : | Decanted : N | Level : | LOW |
| Injection Volume : | GPC Factor : 1.0 | GPC Cleanup : | N PH : |
| Prep Method : | | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| BN037768.D | 1 | 09/15/25 10:15 | 09/18/25 08:11 | PB169692 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOD | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | | |
| 123-91-1 | 1,4-Dioxane | 0.11 | J | 0.070 | 0.20 | 0.20 | ug/L |
| **SURROGATES** | | | | | | | |
| 7297-45-2 | 2-Methylnaphthalene-d10 | 0.26 | | 30 - 150 | | 64% | SPK: 0.4 |
| 93951-69-0 | Fluoranthene-d10 | 0.30 | | 30 - 150 | | 76% | SPK: 0.4 |
| 4165-60-0 | Nitrobenzene-d5 | 0.28 | | 55 - 111 | | 71% | SPK: 0.4 |
| 321-60-8 | 2-Fluorobiphenyl | 0.28 | | 53 - 106 | | 71% | SPK: 0.4 |
| 1718-51-0 | Terphenyl-d14 | 0.29 | | 58 - 132 | | 74% | SPK: 0.4 |
| **INTERNAL STANDARDS** | | | | | | | |
| 3855-82-1 | 1,4-Dichlorobenzene-d4 | 7450 | 7.833 | | | | |
| 1146-65-2 | Naphthalene-d8 | 20000 | 10.637 | | | | |
| 15067-26-2 | Acenaphthene-d10 | 9140 | 14.484 | | | | |
| 1517-22-2 | Phenanthrene-d10 | 17500 | 17.235 | | | | |
| 1719-03-5 | Chrysene-d12 | 16200 | 21.411 | | | | |
| 1520-96-3 | Perylene-d12 | 15600 | 23.744 | | | | |

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

Sample Results: **BN037768.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN091725\
Data File : BN037768.D
Acq On : 18 Sep 2025 08:11
Operator : RC/JU
Sample : Q3095-20
Misc :
ALS Vial : 29 Sample Multiplier: 1

**Instrument :**
BNA_N
**ClientSampleId :**
MW178S-20250910

Quant Time: Sep 18 08:46:04 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN091125.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Sep 11 14:20:01 2025
Response via : Initial Calibration

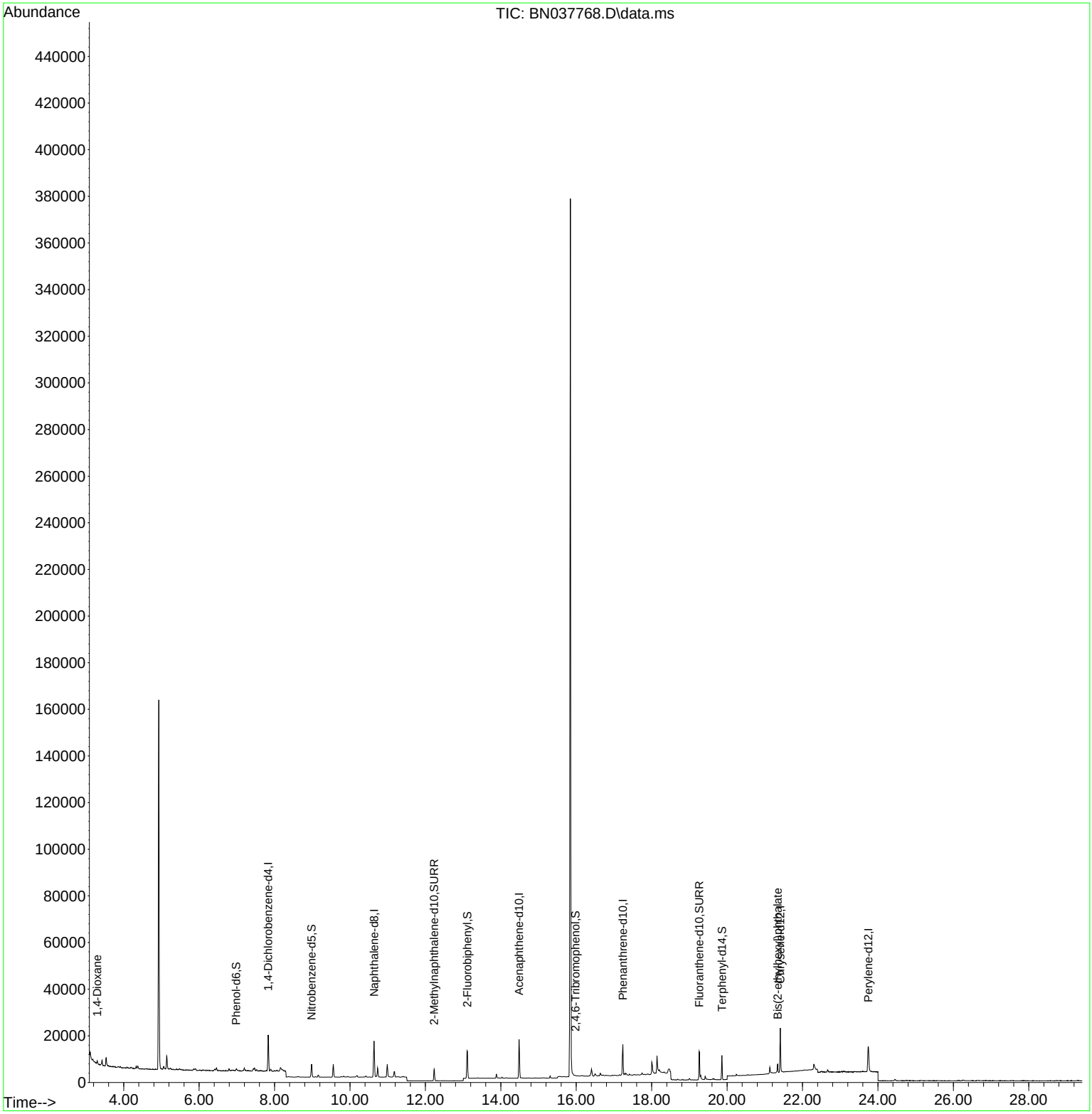
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) 1,4-Dichlorobenzene-d4 | 7.833 | 152 | 7451 | 0.400 | ng | 0.00 |
| 7) Naphthalene-d8 | 10.637 | 136 | 19960 | 0.400 | ng | -0.01 |
| 13) Acenaphthene-d10 | 14.484 | 164 | 9139 | 0.400 | ng | -0.01 |
| 19) Phenanthrene-d10 | 17.235 | 188 | 17489 | 0.400 | ng | # 0.00 |
| 29) Chrysene-d12 | 21.411 | 240 | 16160 | 0.400 | ng | 0.00 |
| 35) Perylene-d12 | 23.744 | 264 | 15607 | 0.400 | ng | # 0.00 |
| System Monitoring Compounds | | | | | | |
| 4) 2-Fluorophenol | 5.399 | 112 | 323 | 0.019 | ng | 0.00 |
| 5) Phenol-d6 | 6.980 | 99 | 674 | 0.030 | ng | 0.00 |
| 8) Nitrobenzene-d5 | 8.982 | 82 | 4143 | 0.284 | ng | -0.01 |
| 11) 2-Methylnaphthalene-d10 | 12.233 | 152 | 6791 | 0.257 | ng | -0.01 |
| 14) 2,4,6-Tribromophenol | 15.982 | 330 | 68 | 0.029 | ng | 0.00 |
| 15) 2-Fluorobiphenyl | 13.115 | 172 | 10809 | 0.283 | ng | 0.00 |
| 27) Fluoranthene-d10 | 19.262 | 212 | 13318 | 0.303 | ng | 0.00 |
| 31) Terphenyl-d14 | 19.861 | 244 | 9643 | 0.294 | ng | 0.00 |
| Target Compounds | | | | | | Qvalue |
| 2) 1,4-Dioxane | 3.297 | 88 | 855 | 0.110 | ng | # 81 |
| 34) Bis(2-ethylhexyl)phtha... | 21.340 | 149 | 3845 | 0.230 | ng | 100 |

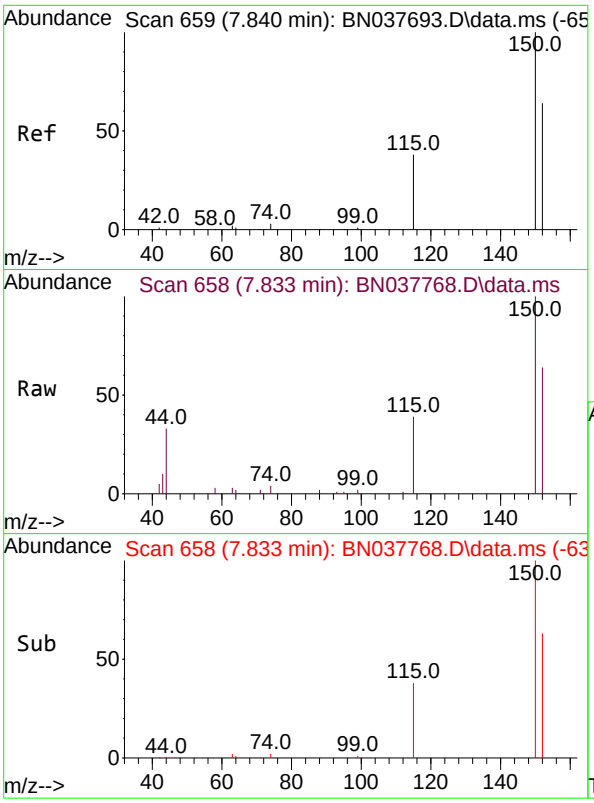
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN091725\
Data File : BN037768.D
Acq On : 18 Sep 2025 08:11
Operator : RC/JU
Sample : Q3095-20
Misc :
ALS Vial : 29 Sample Multiplier: 1

**Instrument :**
BNA_N
**ClientSampleId :**
MW178S-20250910

Quant Time: Sep 18 08:46:04 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN091125.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Sep 11 14:20:01 2025
Response via : Initial Calibration



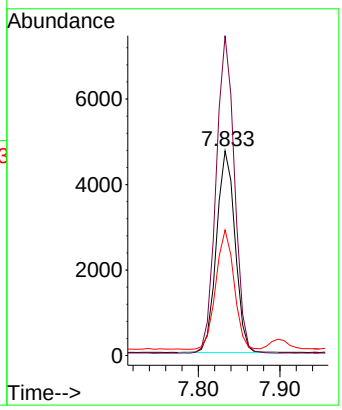


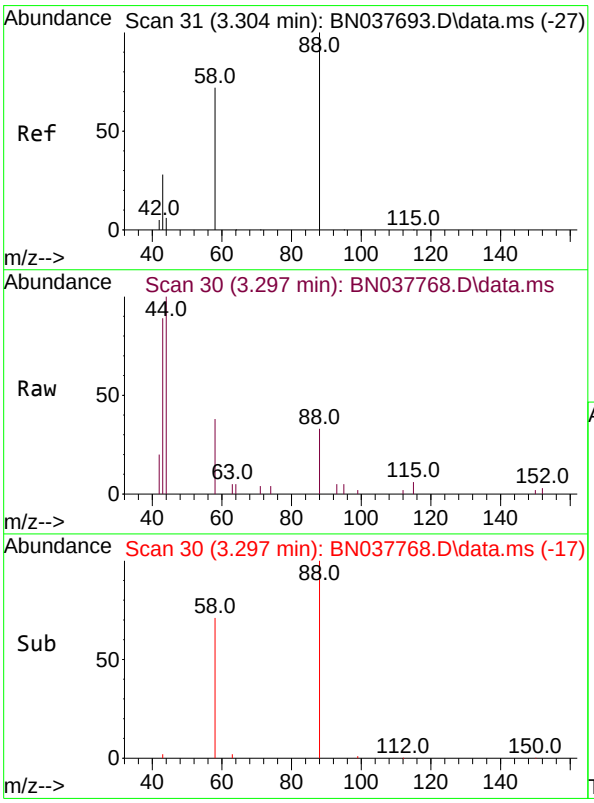

#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.833 min Scan# 6
Delta R.T. -0.007 min
Lab File: BN037768.D
Acq: 18 Sep 2025 08:11

**Instrument :**
BNA_N
**ClientSampleId :**
MW178S-20250910

Tgt Ion:152 Resp: 7451

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 150 | 156.3 | 124.5 | 186.7 |
| 115 | 61.4 | 49.2 | 73.8 |

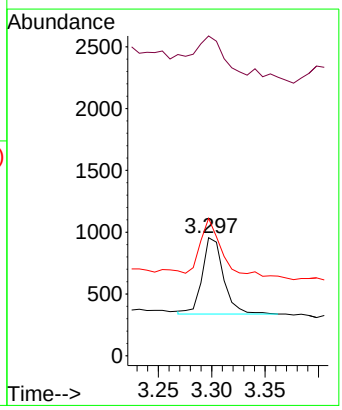


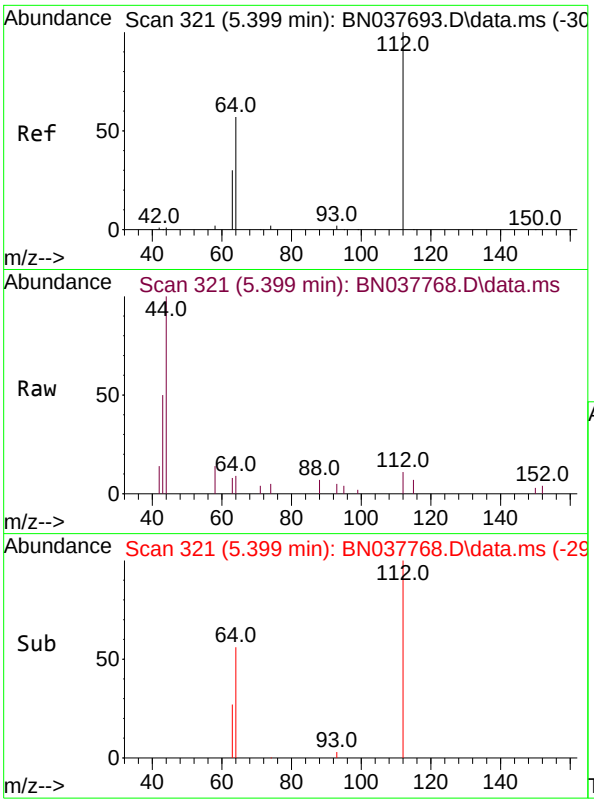




#2
1,4-Dioxane
Concen: 0.110 ng
RT: 3.297 min Scan# 30
Delta R.T. -0.007 min
Lab File: BN037768.D
Acq: 18 Sep 2025 08:11

Tgt Ion: 88 Resp: 855

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 88 | 100 | | |
| 43 | 62.8 | 26.8 | 40.2# |
| 58 | 82.0 | 61.9 | 92.9 |



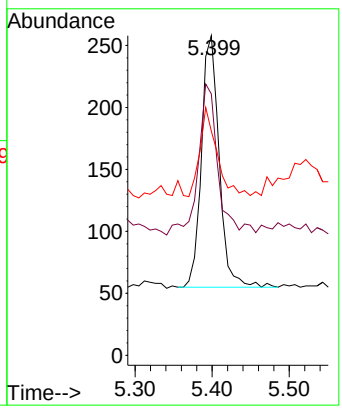


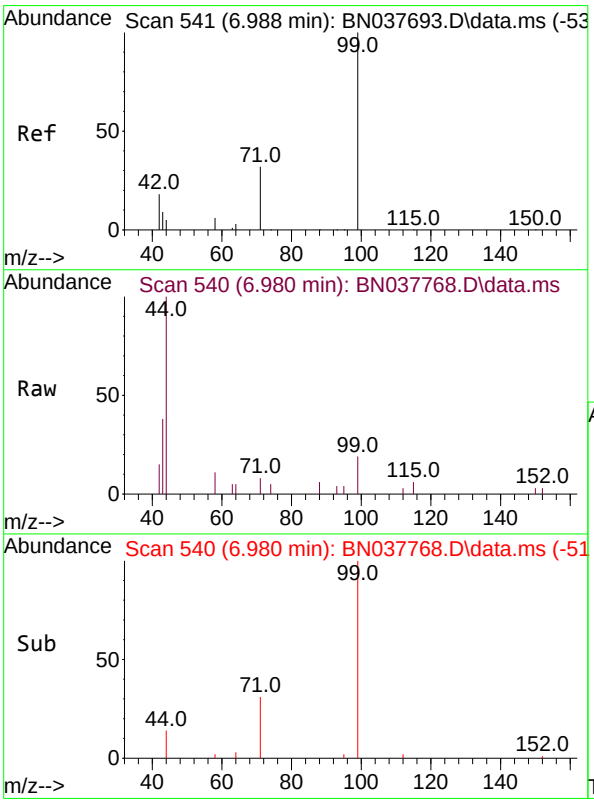

#4
2-Fluorophenol
Concen: 0.019 ng
RT: 5.399 min Scan# 3
Delta R.T. -0.000 min
Lab File: BN037768.D
Acq: 18 Sep 2025 08:11

**Instrument :**
BNA_N
**ClientSampleId :**
MW178S-20250910

Tgt Ion:112 Resp: 323

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 112 | 100 | | |
| 64 | 67.8 | 44.9 | 67.3# |
| 63 | 34.4 | 24.7 | 37.1 |

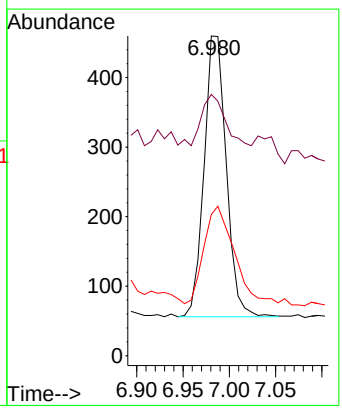


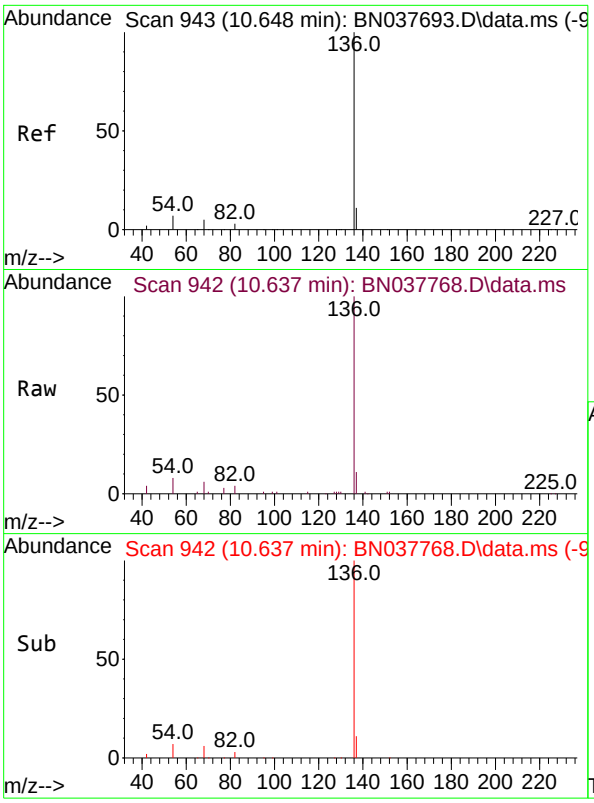




#5
Phenol-d6
Concen: 0.030 ng
RT: 6.980 min Scan# 540
Delta R.T. -0.007 min
Lab File: BN037768.D
Acq: 18 Sep 2025 08:11

Tgt Ion: 99 Resp: 674

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 99 | 100 | | |
| 42 | 23.4 | 16.6 | 24.8 |
| 71 | 50.1 | 26.7 | 40.1# |



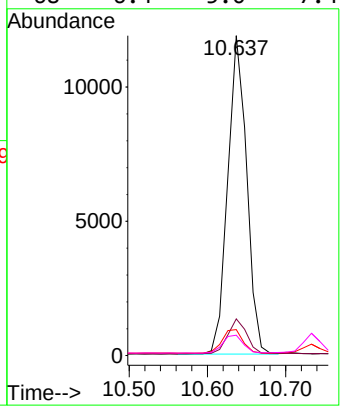


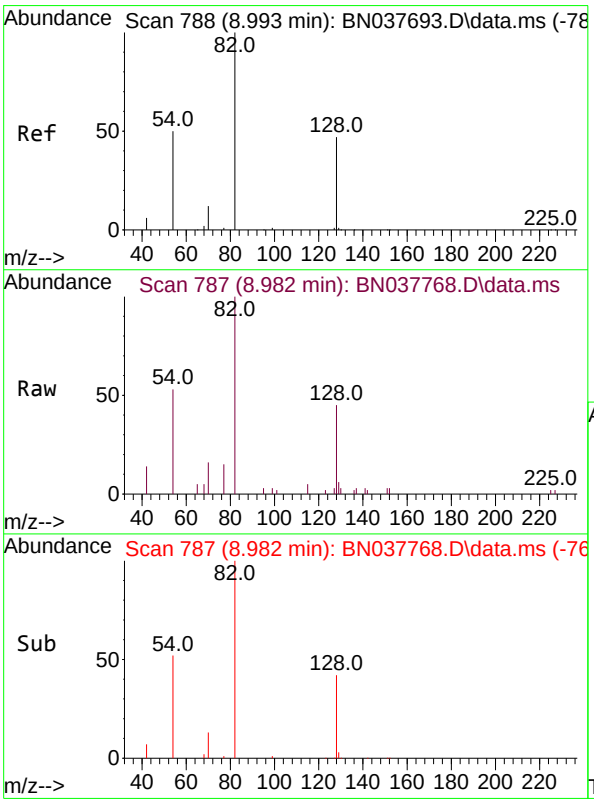

#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.637 min Scan# 94
Delta R.T. -0.011 min
Lab File: BN037768.D
Acq: 18 Sep 2025 08:11

**Instrument :**
BNA_N
**ClientSampleId :**
MW178S-20250910

Tgt Ion:136 Resp: 19960

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 136 | 100 | | |
| 137 | 11.5 | 9.1 | 13.7 |
| 54 | 8.1 | 6.3 | 9.5 |
| 68 | 6.4 | 5.0 | 7.4 |

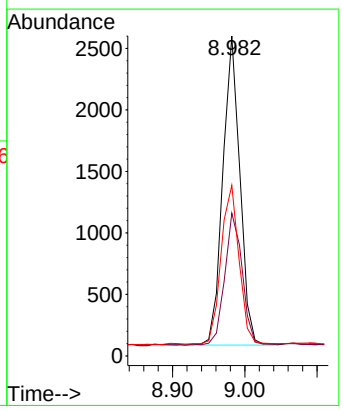


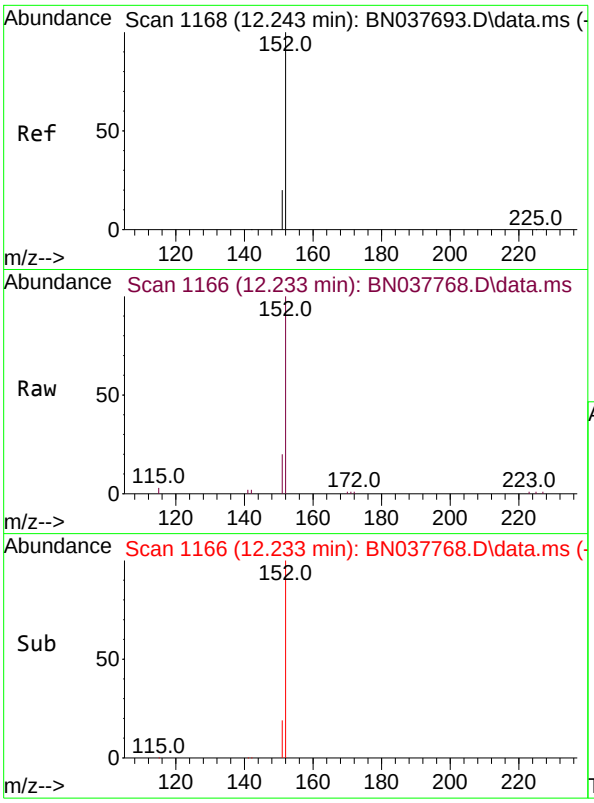




#8
Nitrobenzene-d5
Concen: 0.284 ng
RT: 8.982 min Scan# 787
Delta R.T. -0.011 min
Lab File: BN037768.D
Acq: 18 Sep 2025 08:11

Tgt Ion: 82 Resp: 4143

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 82 | 100 | | |
| 128 | 44.6 | 38.3 | 57.5 |
| 54 | 53.3 | 41.4 | 62.2 |



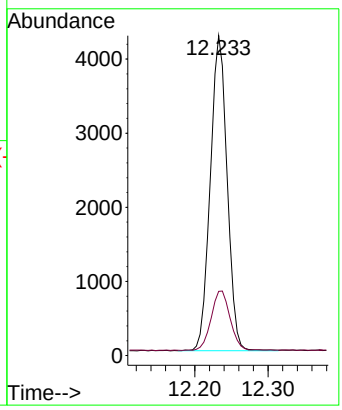


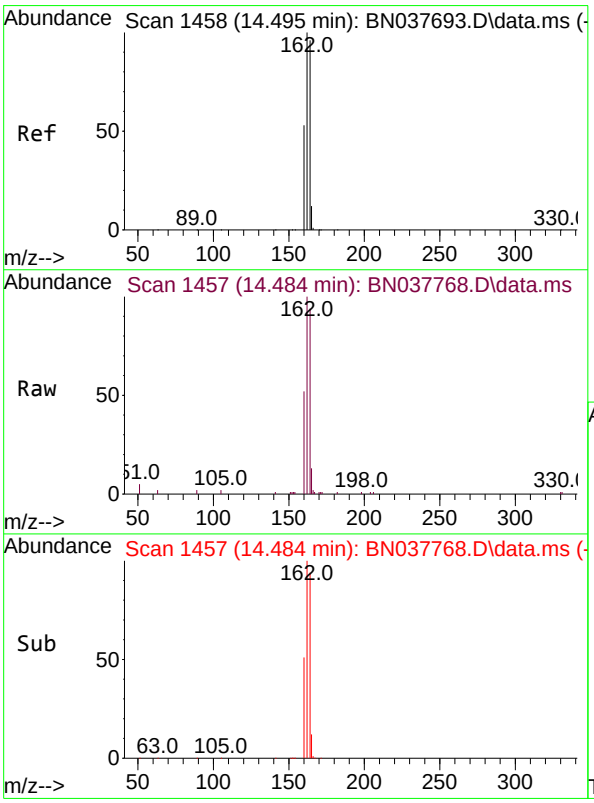

#11
2-Methylnaphthalene-d10
Concen: 0.257 ng
RT: 12.233 min Scan# 11
Delta R.T. -0.010 min
Lab File: BN037768.D
Acq: 18 Sep 2025 08:11

**Instrument :**
BNA_N
**ClientSampleId :**
MW178S-20250910

Tgt Ion:152 Resp: 6791

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 151 | 21.4 | 17.0 | 25.6 |

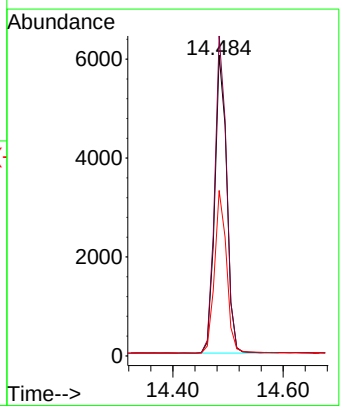


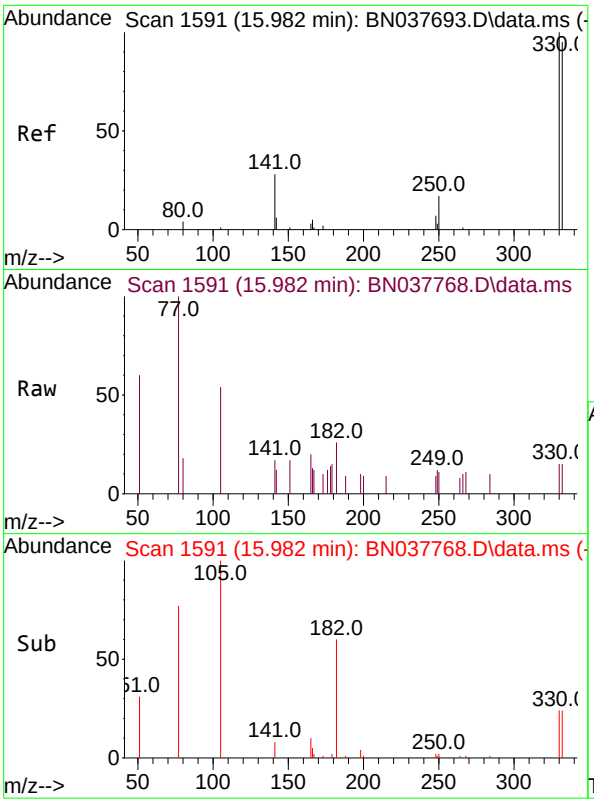




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.484 min Scan# 1457
Delta R.T. -0.011 min
Lab File: BN037768.D
Acq: 18 Sep 2025 08:11

Tgt Ion:164 Resp: 9139

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 164 | 100 | | |
| 162 | 106.4 | 83.1 | 124.7 |
| 160 | 55.0 | 44.3 | 66.5 |



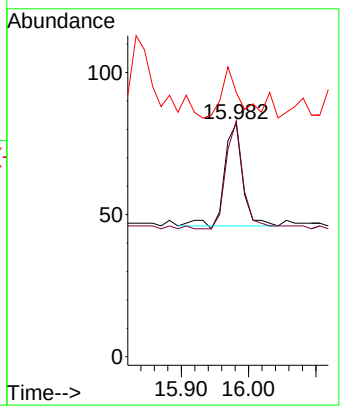


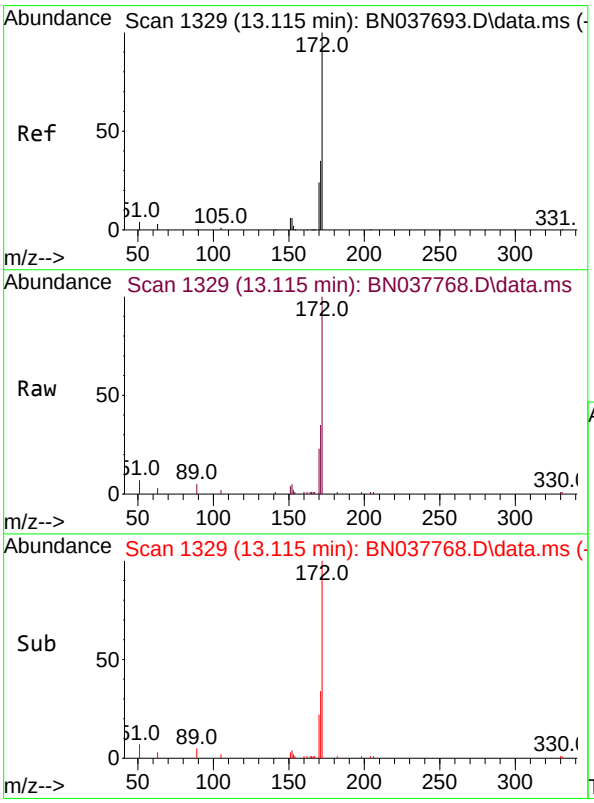

#14
2,4,6-Tribromophenol
Concen: 0.029 ng
RT: 15.982 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN037768.D
Acq: 18 Sep 2025 08:11

**Instrument :**
BNA_N
**ClientSampleId :**
MW178S-20250910

Tgt Ion:330 Resp: 68

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 330 | 100 | | |
| 332 | 102.9 | 75.3 | 112.9 |
| 141 | 51.5 | 35.0 | 52.4 |

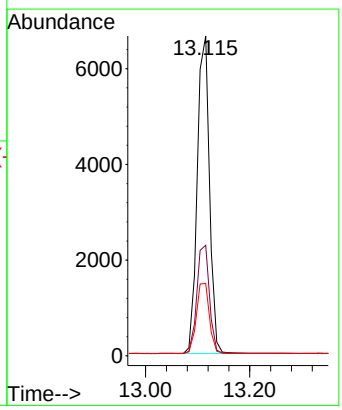


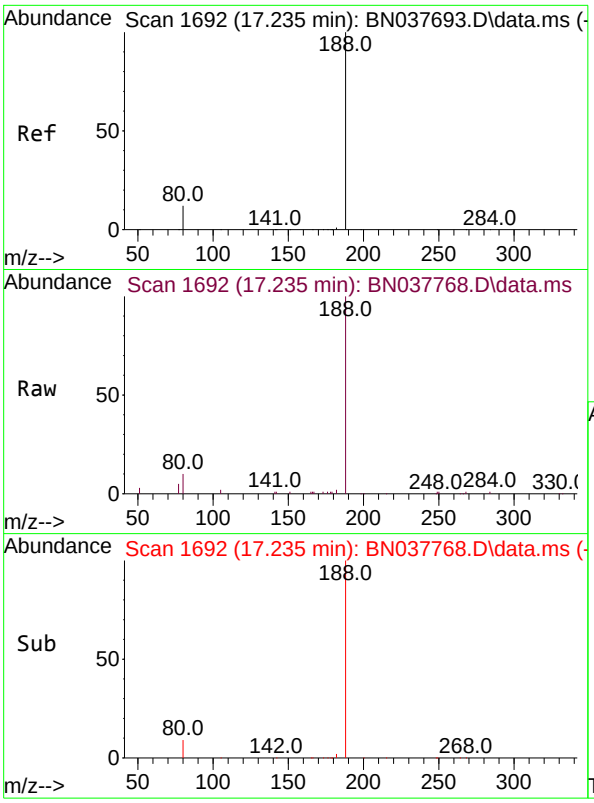




#15
2-Fluorobiphenyl
Concen: 0.283 ng
RT: 13.115 min Scan# 1329
Delta R.T. -0.000 min
Lab File: BN037768.D
Acq: 18 Sep 2025 08:11

Tgt Ion:172 Resp: 10809

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 172 | 100 | | |
| 171 | 34.6 | 28.6 | 43.0 |
| 170 | 22.6 | 19.8 | 29.8 |



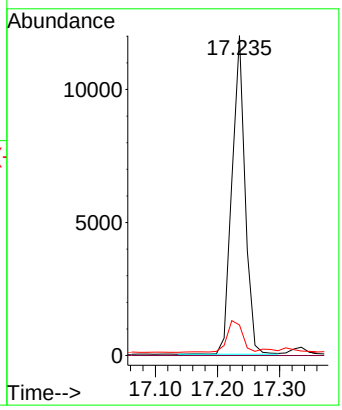


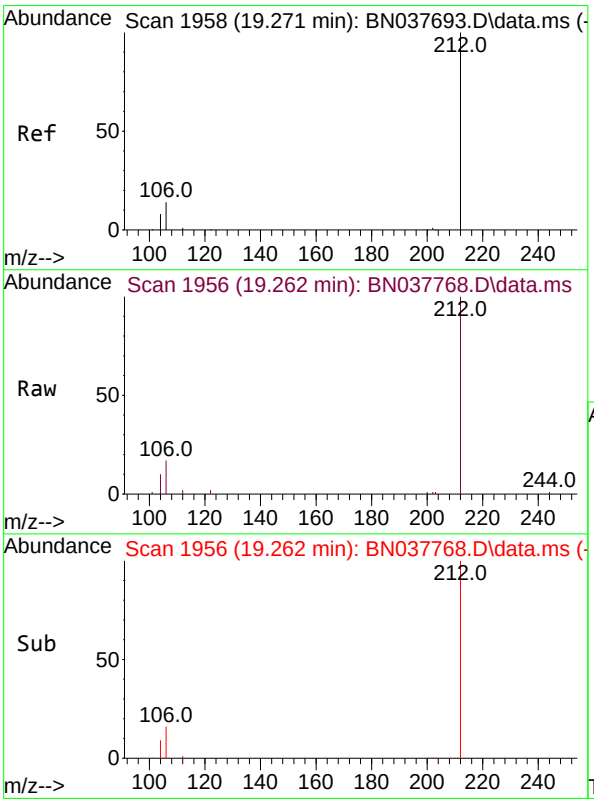

#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.235 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN037768.D
Acq: 18 Sep 2025 08:11

**Instrument :**
BNA_N
**ClientSampleId :**
MW178S-20250910

Tgt Ion:188 Resp: 17489

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 188 | 100 | | |
| 94 | 0.0 | 0.0 | 0.0 |
| 80 | 9.6 | 10.6 | 15.8# |

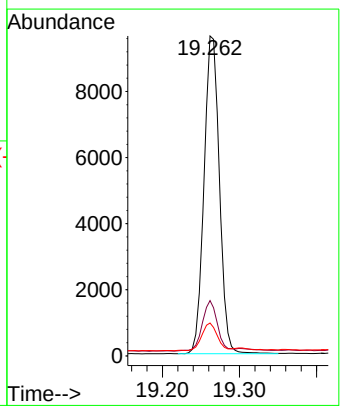


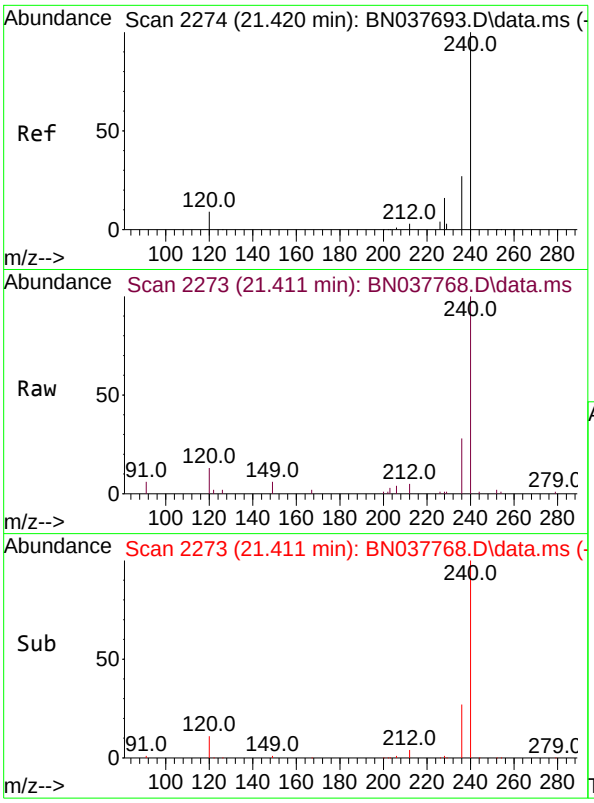




#27
Fluoranthene-d10
Concen: 0.303 ng
RT: 19.262 min Scan# 1956
Delta R.T. -0.009 min
Lab File: BN037768.D
Acq: 18 Sep 2025 08:11

Tgt Ion:212 Resp: 13318

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 212 | 100 | | |
| 106 | 15.7 | 12.2 | 18.2 |
| 104 | 8.9 | 6.9 | 10.3 |



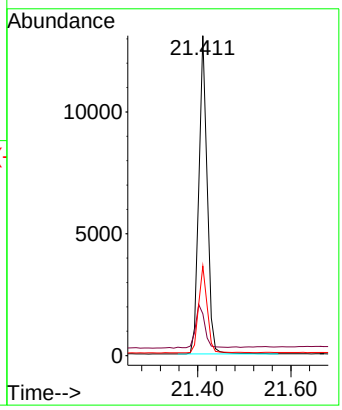


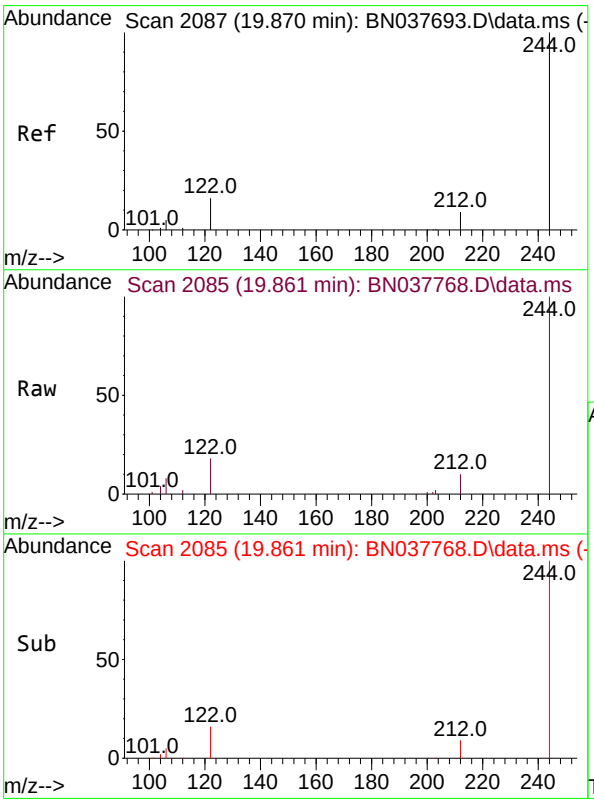

#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.411 min Scan# 2
Delta R.T. -0.009 min
Lab File: BN037768.D
Acq: 18 Sep 2025 08:11

**Instrument :**
BNA_N
**ClientSampleId :**
MW178S-20250910

Tgt Ion:240 Resp: 16160

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 240 | 100 | | |
| 120 | 13.1 | 9.2 | 13.8 |
| 236 | 28.0 | 22.6 | 33.8 |

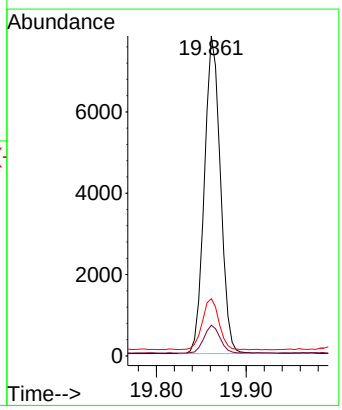


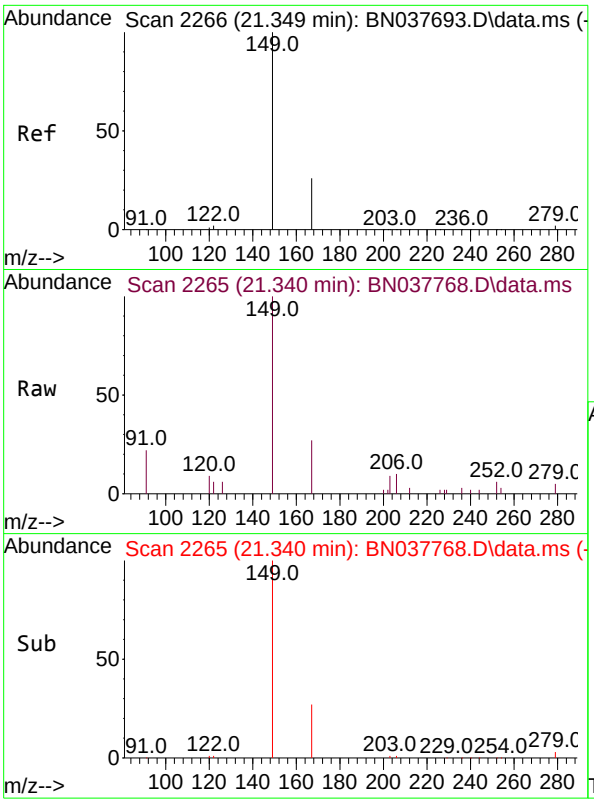




#31
Terphenyl-d14
Concen: 0.294 ng
RT: 19.861 min Scan# 2085
Delta R.T. -0.009 min
Lab File: BN037768.D
Acq: 18 Sep 2025 08:11

Tgt Ion:244 Resp: 9643

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 244 | 100 | | |
| 212 | 9.6 | 7.5 | 11.3 |
| 122 | 17.9 | 13.2 | 19.8 |



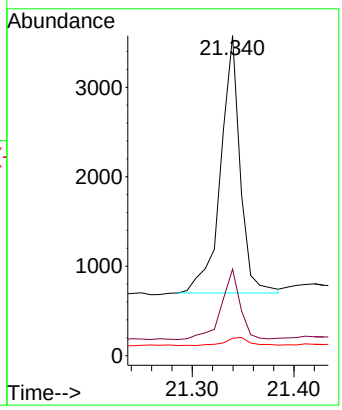


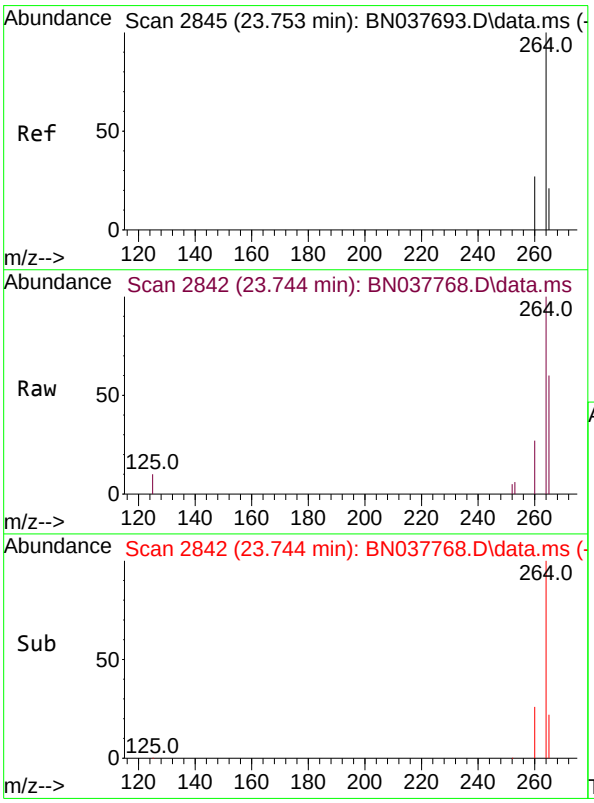

#34
Bis(2-ethylhexyl)phthalate
Concen: 0.230 ng
RT: 21.340 min Scan# 2
Delta R.T. -0.009 min
Lab File: BN037768.D
Acq: 18 Sep 2025 08:11

**Instrument :**
BNA_N
**ClientSampleId :**
MW178S-20250910

Tgt Ion:149 Resp: 3845

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 149 | 100 | | |
| 167 | 26.2 | 20.8 | 31.2 |
| 279 | 3.9 | 3.3 | 4.9 |

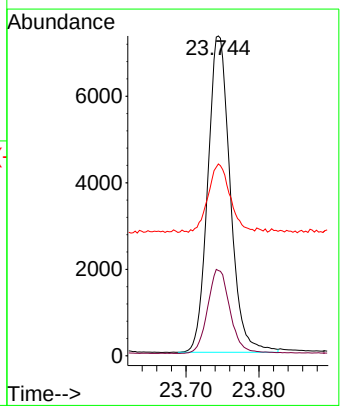



#35
Perylene-d12
Concen: 0.400 ng
RT: 23.744 min Scan# 2842
Delta R.T. -0.009 min
Lab File: BN037768.D
Acq: 18 Sep 2025 08:11

Tgt Ion:264 Resp: 15607

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 264 | 100 | | |
| 260 | 26.7 | 21.8 | 32.8 |
| 265 | 60.0 | 39.4 | 59.2# |



Raw Data: **BN037783.D**

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

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | AECOM Technical Services, Inc. | Date Collected: | 09/10/25 |
| Project: | NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258 | Date Received: | 09/12/25 |
| Client Sample ID: | RE126D1-20250910 | SDG No.: | Q3095 |
| Lab Sample ID: | Q3095-21 | Matrix: | Water |
| Analytical Method: | SW8270ESIM | % Solid: | 0 |
| Sample Wt/Vol: | 990 Units: mL | Final Vol: | 1000 uL |
| Soil Aliquot Vol: | uL | Test: | SVOC-SIMGroup1 |
| Extraction Type : | Decanted : N | Level : | LOW |
| Injection Volume : | GPC Factor : 1.0 | GPC Cleanup : | N PH : |
| Prep Method : | | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| BN037783.D | 1 | 09/15/25 12:00 | 09/18/25 18:49 | PB169693 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOD | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | | |
| 123-91-1 | 1,4-Dioxane | 2.20 | | 0.070 | 0.20 | 0.20 | ug/L |
| **SURROGATES** | | | | | | | |
| 7297-45-2 | 2-Methylnaphthalene-d10 | 0.28 | | 30 - 150 | | 70% | SPK: 0.4 |
| 93951-69-0 | Fluoranthene-d10 | 0.35 | | 30 - 150 | | 86% | SPK: 0.4 |
| 4165-60-0 | Nitrobenzene-d5 | 0.32 | | 55 - 111 | | 79% | SPK: 0.4 |
| 321-60-8 | 2-Fluorobiphenyl | 0.30 | | 53 - 106 | | 74% | SPK: 0.4 |
| 1718-51-0 | Terphenyl-d14 | 0.36 | | 58 - 132 | | 90% | SPK: 0.4 |
| **INTERNAL STANDARDS** | | | | | | | |
| 3855-82-1 | 1,4-Dichlorobenzene-d4 | 8230 | 7.833 | | | | |
| 1146-65-2 | Naphthalene-d8 | 22500 | 10.637 | | | | |
| 15067-26-2 | Acenaphthene-d10 | 10500 | 14.484 | | | | |
| 1517-22-2 | Phenanthrene-d10 | 19300 | 17.235 | | | | |
| 1719-03-5 | Chrysene-d12 | 17300 | 21.411 | | | | |
| 1520-96-3 | Perylene-d12 | 17700 | 23.744 | | | | |

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\BN091825\
Data File : BN037783.D
Acq On : 18 Sep 2025 18:49
Operator : RC/JU
Sample : Q3095-21
Misc :
ALS Vial : 9 Sample Multiplier: 1

**Instrument :**
BNA_N
**ClientSampleId :**
RE126D1-20250910

Quant Time: Sep 18 19:16:33 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN091125.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Sep 11 14:20:01 2025
Response via : Initial Calibration

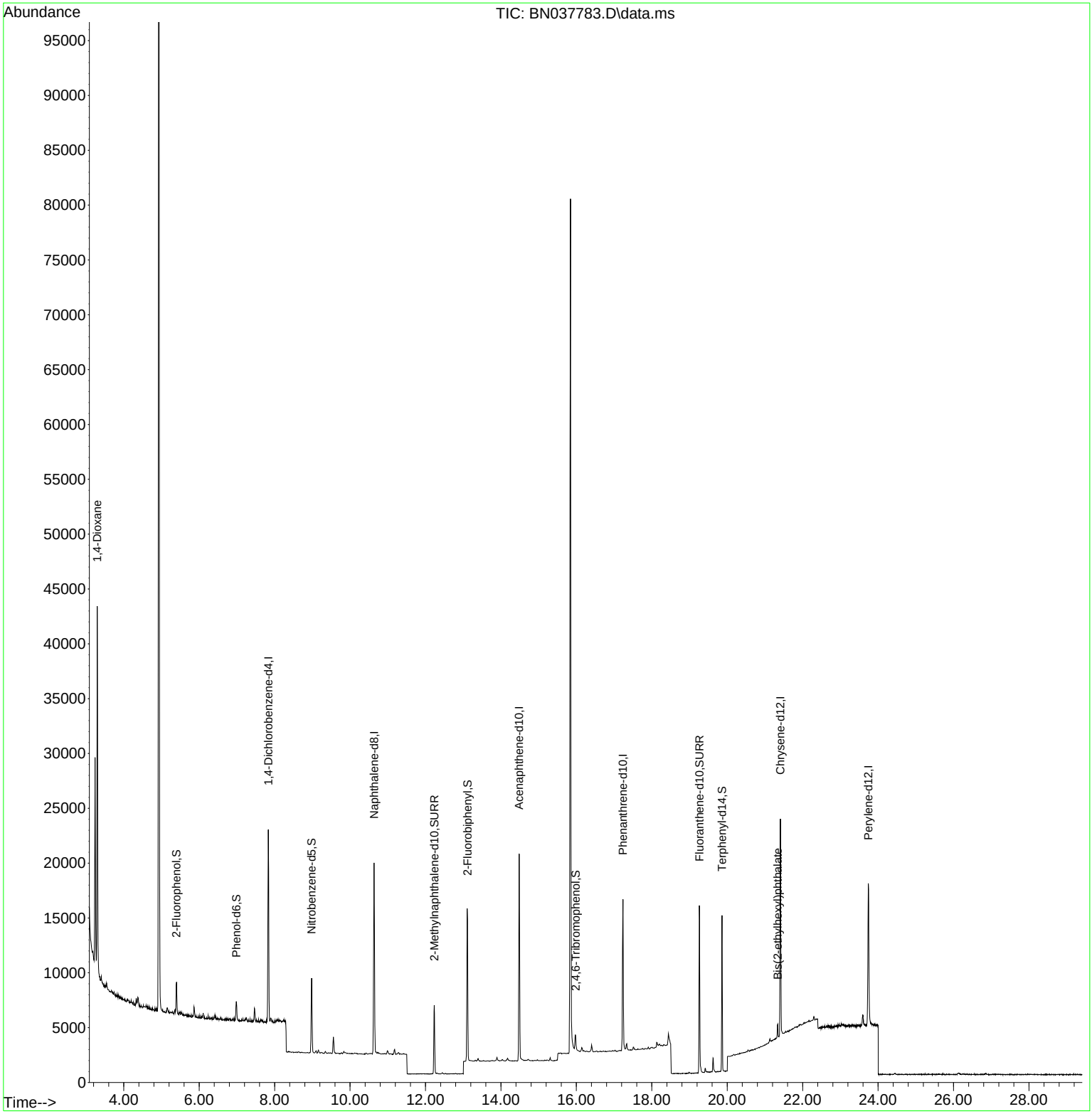
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) 1,4-Dichlorobenzene-d4 | 7.833 | 152 | 8225 | 0.400 | ng | 0.00 |
| 7) Naphthalene-d8 | 10.637 | 136 | 22467 | 0.400 | ng | -0.01 |
| 13) Acenaphthene-d10 | 14.484 | 164 | 10495 | 0.400 | ng | -0.01 |
| 19) Phenanthrene-d10 | 17.235 | 188 | 19347 | 0.400 | ng | # 0.00 |
| 29) Chrysene-d12 | 21.411 | 240 | 17267 | 0.400 | ng | 0.00 |
| 35) Perylene-d12 | 23.744 | 264 | 17743 | 0.400 | ng | 0.00 |
| System Monitoring Compounds | | | | | | |
| 4) 2-Fluorophenol | 5.399 | 112 | 2296 | 0.122 | ng | 0.00 |
| 5) Phenol-d6 | 6.988 | 99 | 1662 | 0.068 | ng | 0.00 |
| 8) Nitrobenzene-d5 | 8.982 | 82 | 5178 | 0.315 | ng | -0.01 |
| 11) 2-Methylnaphthalene-d10 | 12.233 | 152 | 8408 | 0.282 | ng | -0.01 |
| 14) 2,4,6-Tribromophenol | 15.982 | 330 | 1005 | 0.367 | ng | 0.00 |
| 15) 2-Fluorobiphenyl | 13.115 | 172 | 12964 | 0.295 | ng | 0.00 |
| 27) Fluoranthene-d10 | 19.262 | 212 | 16784 | 0.346 | ng | 0.00 |
| 31) Terphenyl-d14 | 19.861 | 244 | 12609 | 0.360 | ng | 0.00 |
| Target Compounds | | | | | | Qvalue |
| 2) 1,4-Dioxane | 3.297 | 88 | 19050 | 2.224 | ng | 97 |
| 34) Bis(2-ethylhexyl)phtha... | 21.340 | 149 | 1361 | 0.076 | ng | # 95 |

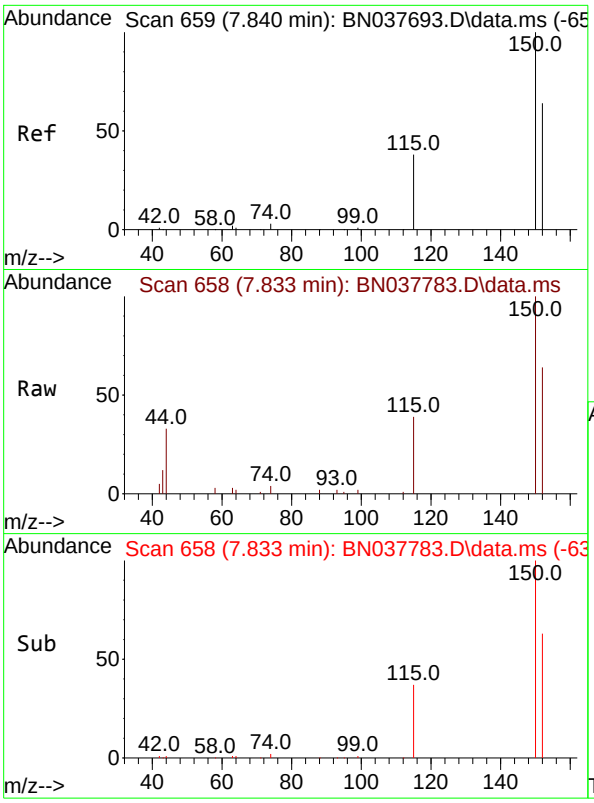
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN091825\
Data File : BN037783.D
Acq On : 18 Sep 2025 18:49
Operator : RC/JU
Sample : Q3095-21
Misc :
ALS Vial : 9 Sample Multiplier: 1

**Instrument :**
BNA_N
**ClientSampleId :**
RE126D1-20250910

Quant Time: Sep 18 19:16:33 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN091125.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Sep 11 14:20:01 2025
Response via : Initial Calibration



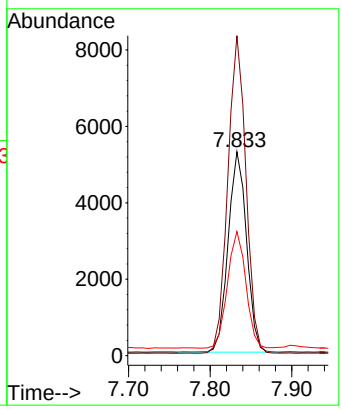


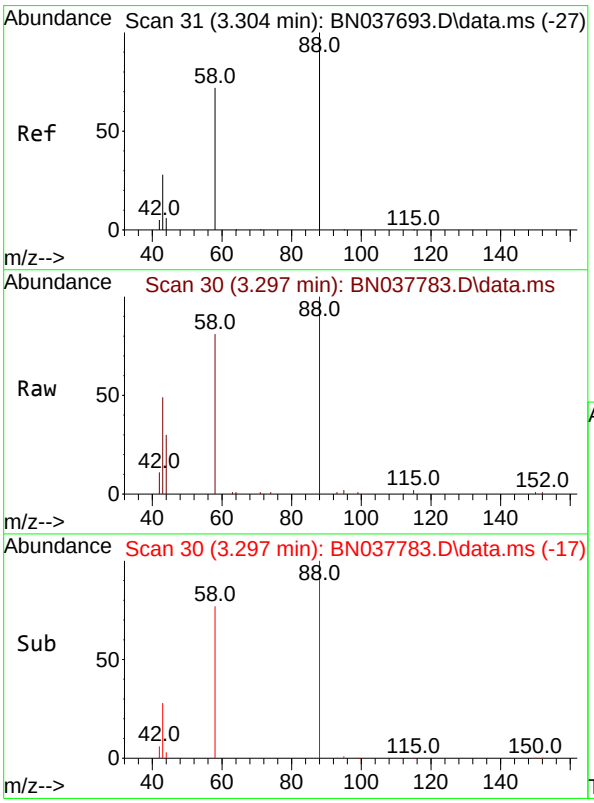

#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.833 min Scan# 6
Delta R.T. -0.007 min
Lab File: BN037783.D
Acq: 18 Sep 2025 18:49

**Instrument :**
BNA_N
**ClientSampleId :**
RE126D1-20250910

Tgt Ion:152 Resp: 8225

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 150 | 156.8 | 124.5 | 186.7 |
| 115 | 60.9 | 49.2 | 73.8 |

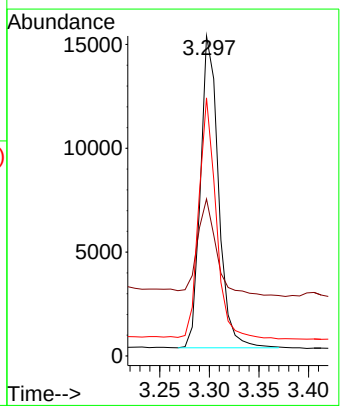


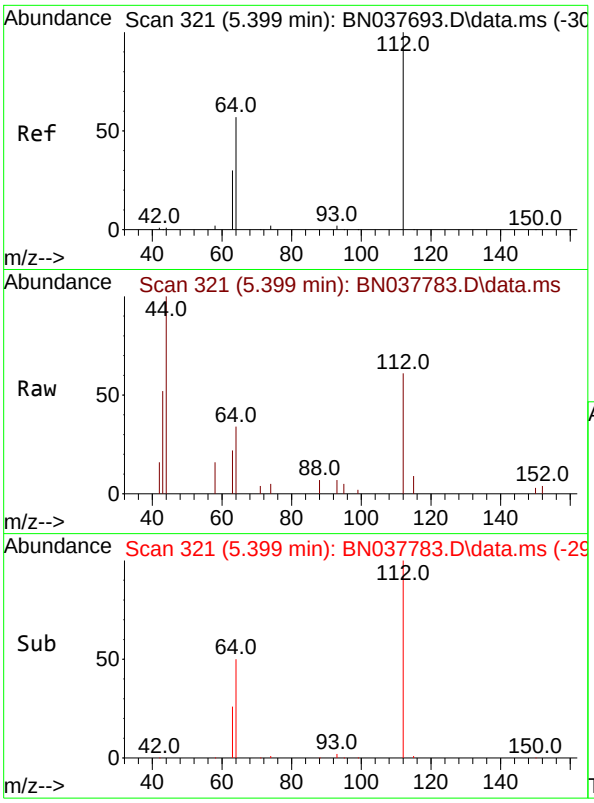




#2
1,4-Dioxane
Concen: 2.224 ng
RT: 3.297 min Scan# 30
Delta R.T. -0.007 min
Lab File: BN037783.D
Acq: 18 Sep 2025 18:49

Tgt Ion: 88 Resp: 19050

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 88 | 100 | | |
| 43 | 32.2 | 26.8 | 40.2 |
| 58 | 74.3 | 61.9 | 92.9 |



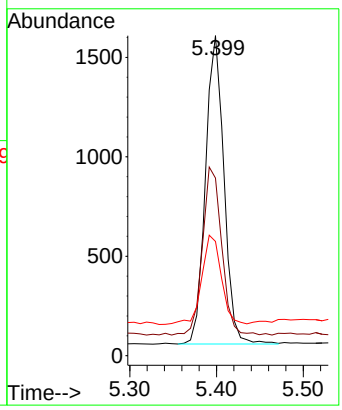


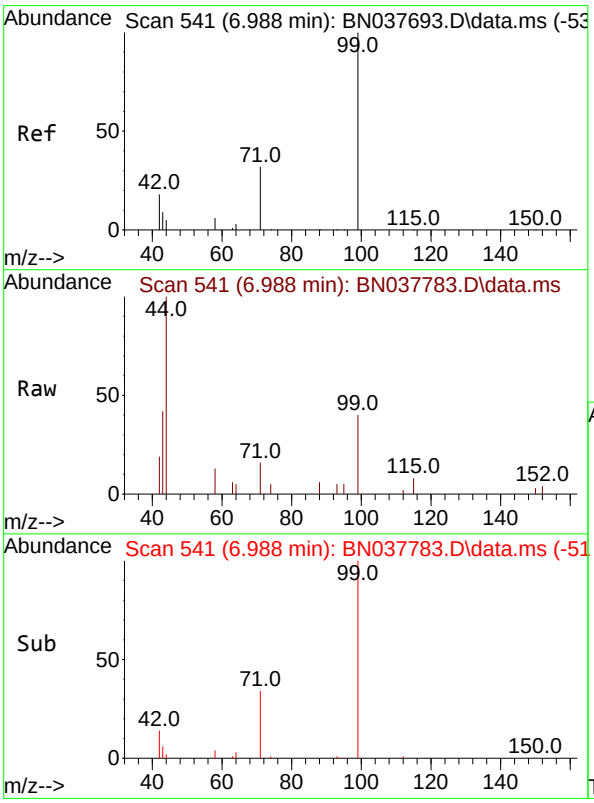

#4
2-Fluorophenol
Concen: 0.122 ng
RT: 5.399 min Scan# 3
Delta R.T. -0.000 min
Lab File: BN037783.D
Acq: 18 Sep 2025 18:49

**Instrument :**
BNA_N
**ClientSampleId :**
RE126D1-20250910

Tgt Ion:112 Resp: 2296

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 112 | 100 | | |
| 64 | 56.6 | 44.9 | 67.3 |
| 63 | 30.6 | 24.7 | 37.1 |

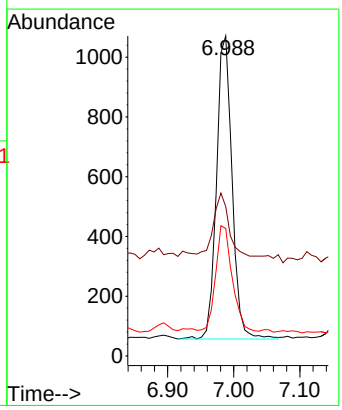


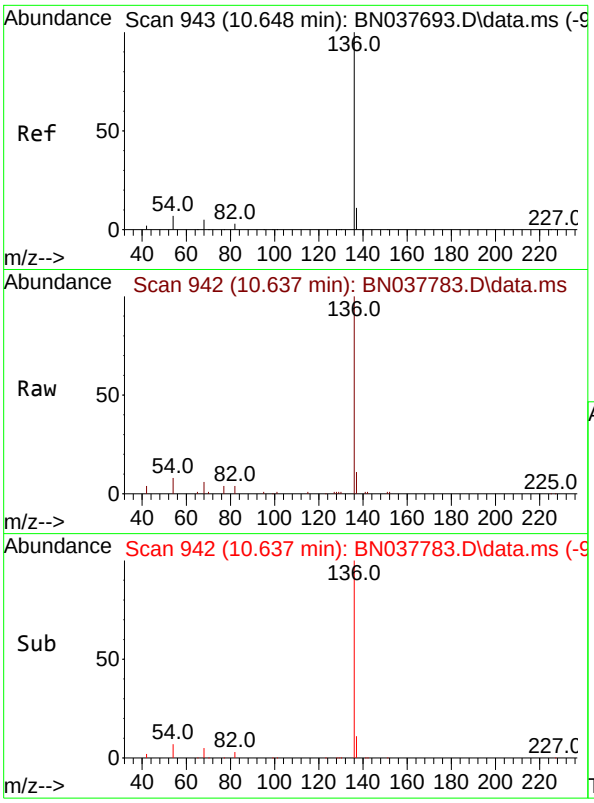




#5
Phenol-d6
Concen: 0.068 ng
RT: 6.988 min Scan# 541
Delta R.T. -0.000 min
Lab File: BN037783.D
Acq: 18 Sep 2025 18:49

Tgt Ion: 99 Resp: 1662

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 99 | 100 | | |
| 42 | 20.5 | 16.6 | 24.8 |
| 71 | 38.3 | 26.7 | 40.1 |



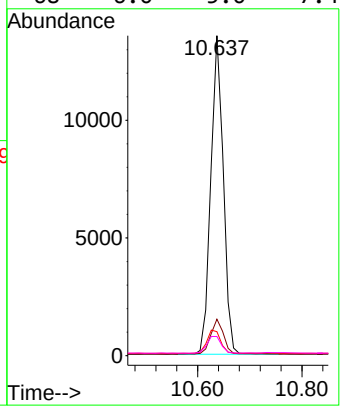


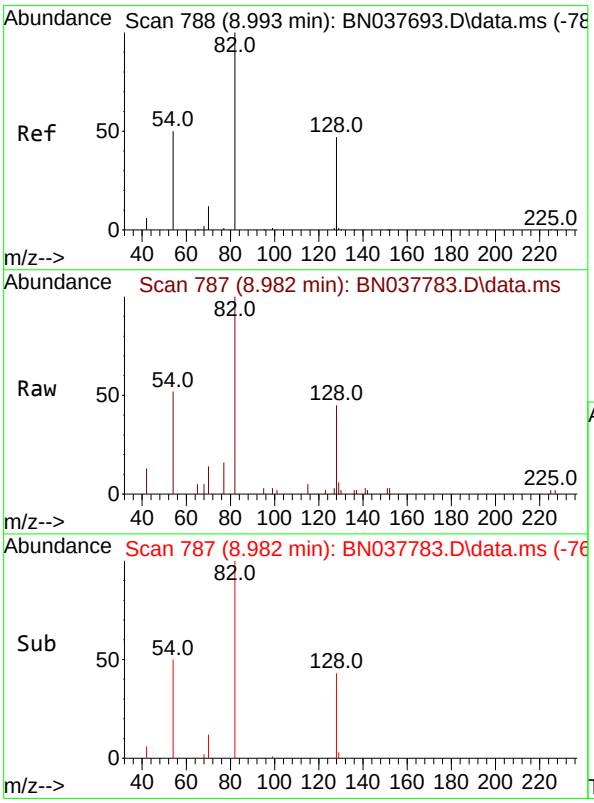

#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.637 min Scan# 94
Delta R.T. -0.011 min
Lab File: BN037783.D
Acq: 18 Sep 2025 18:49

**Instrument :**
BNA_N
**ClientSampleId :**
RE126D1-20250910

Tgt Ion:136 Resp: 22467

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 136 | 100 | | |
| 137 | 11.4 | 9.1 | 13.7 |
| 54 | 7.5 | 6.3 | 9.5 |
| 68 | 6.0 | 5.0 | 7.4 |

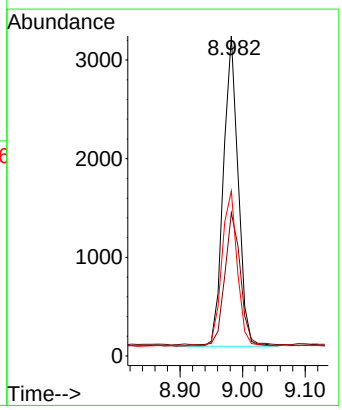


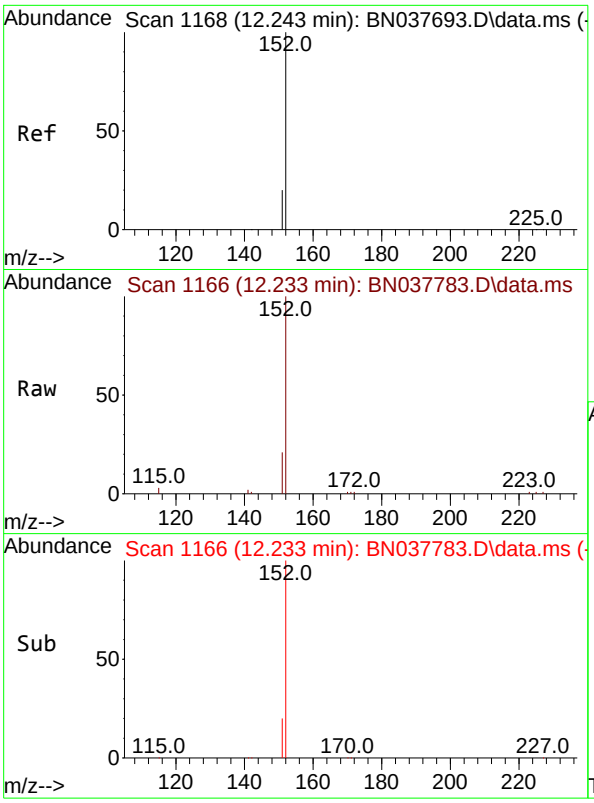




#8
Nitrobenzene-d5
Concen: 0.315 ng
RT: 8.982 min Scan# 787
Delta R.T. -0.011 min
Lab File: BN037783.D
Acq: 18 Sep 2025 18:49

Tgt Ion: 82 Resp: 5178

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 82 | 100 | | |
| 128 | 44.8 | 38.3 | 57.5 |
| 54 | 51.5 | 41.4 | 62.2 |



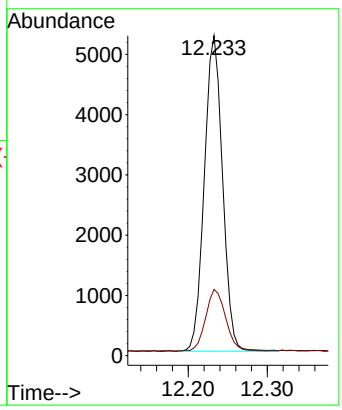


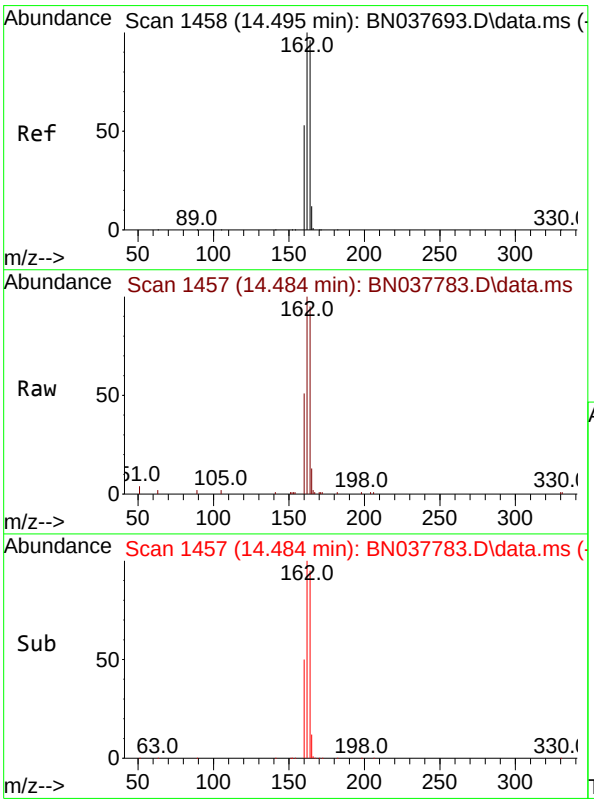

#11
2-Methylnaphthalene-d10
Concen: 0.282 ng
RT: 12.233 min Scan# 11
Delta R.T. -0.010 min
Lab File: BN037783.D
Acq: 18 Sep 2025 18:49

**Instrument :**
BNA_N
**ClientSampleId :**
RE126D1-20250910

Tgt Ion:152 Resp: 8408

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

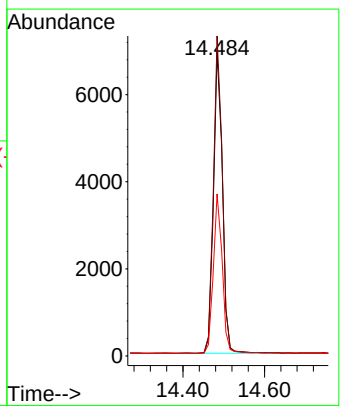


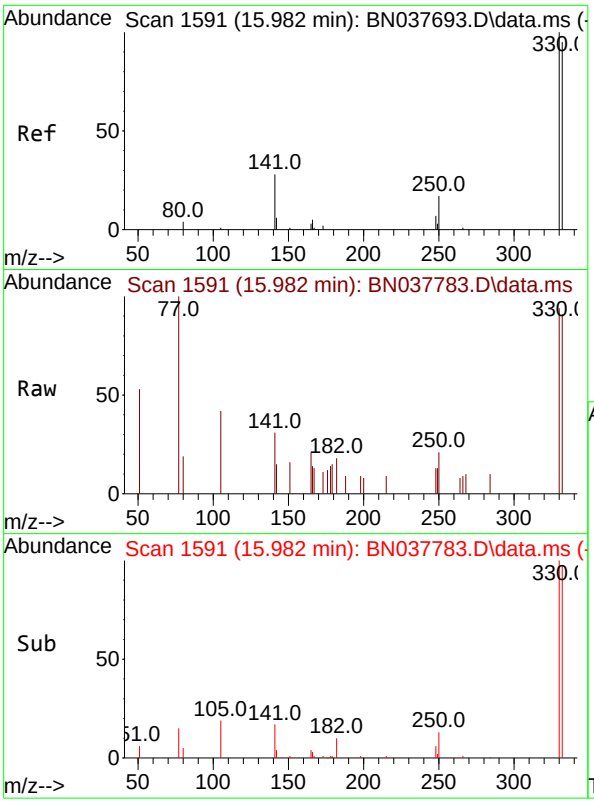




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.484 min Scan# 1457
Delta R.T. -0.011 min
Lab File: BN037783.D
Acq: 18 Sep 2025 18:49

Tgt Ion:164 Resp: 10495

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 164 | 100 | | |
| 162 | 105.2 | 83.1 | 124.7 |
| 160 | 53.3 | 44.3 | 66.5 |



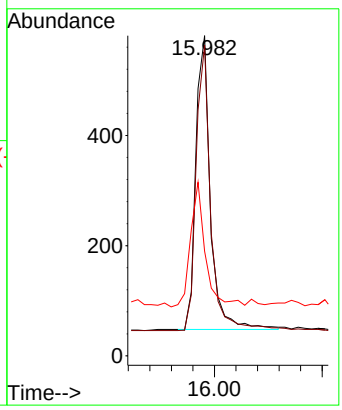


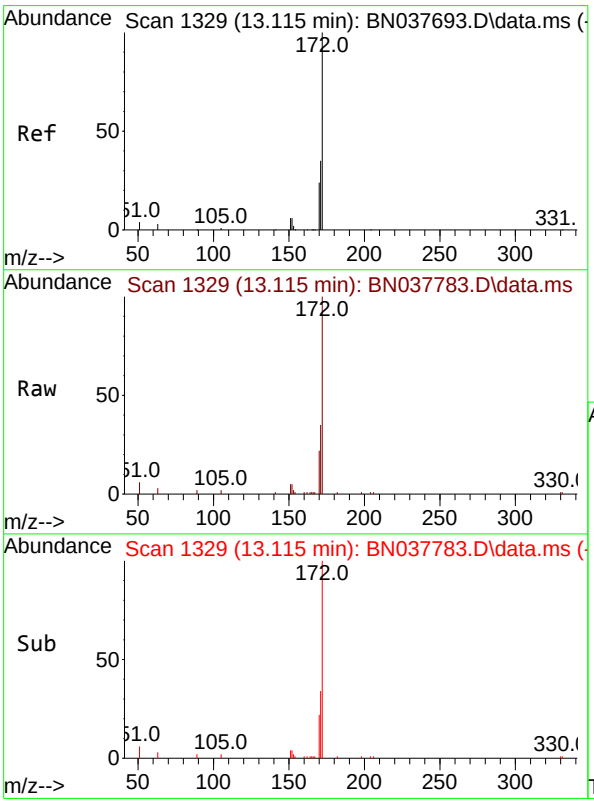

#14
2,4,6-Tribromophenol
Concen: 0.367 ng
RT: 15.982 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN037783.D
Acq: 18 Sep 2025 18:49

**Instrument :**
BNA_N
**ClientSampleId :**
RE126D1-20250910

Tgt Ion:330 Resp: 1005

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 330 | 100 | | |
| 332 | 96.8 | 75.3 | 112.9 |
| 141 | 43.0 | 35.0 | 52.4 |

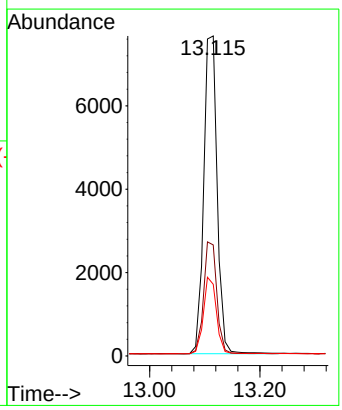


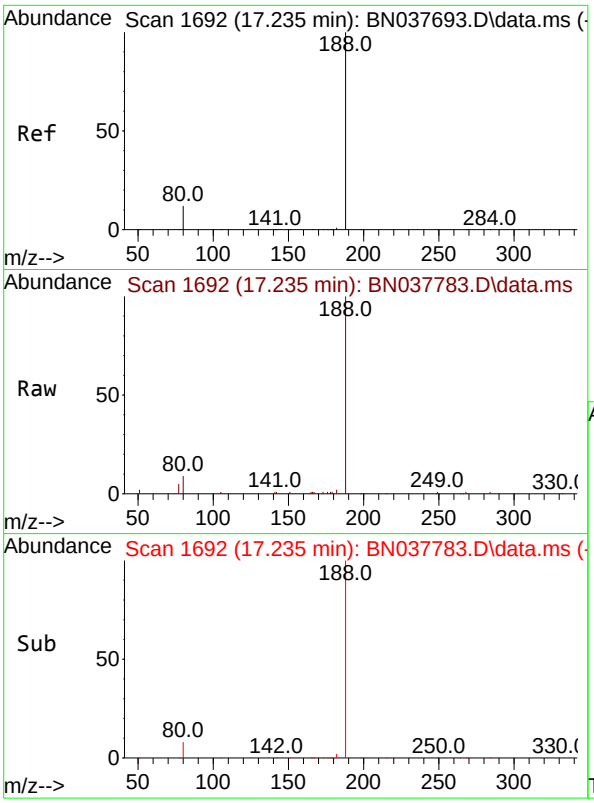




#15
2-Fluorobiphenyl
Concen: 0.295 ng
RT: 13.115 min Scan# 1329
Delta R.T. -0.000 min
Lab File: BN037783.D
Acq: 18 Sep 2025 18:49

Tgt Ion:172 Resp: 12964

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 172 | 100 | | |
| 171 | 34.7 | 28.6 | 43.0 |
| 170 | 22.4 | 19.8 | 29.8 |



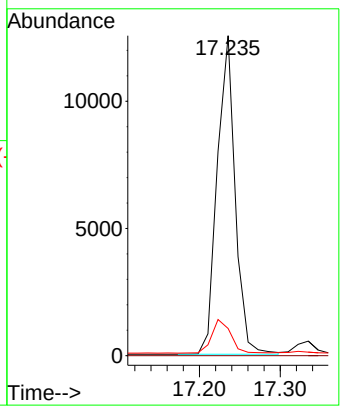


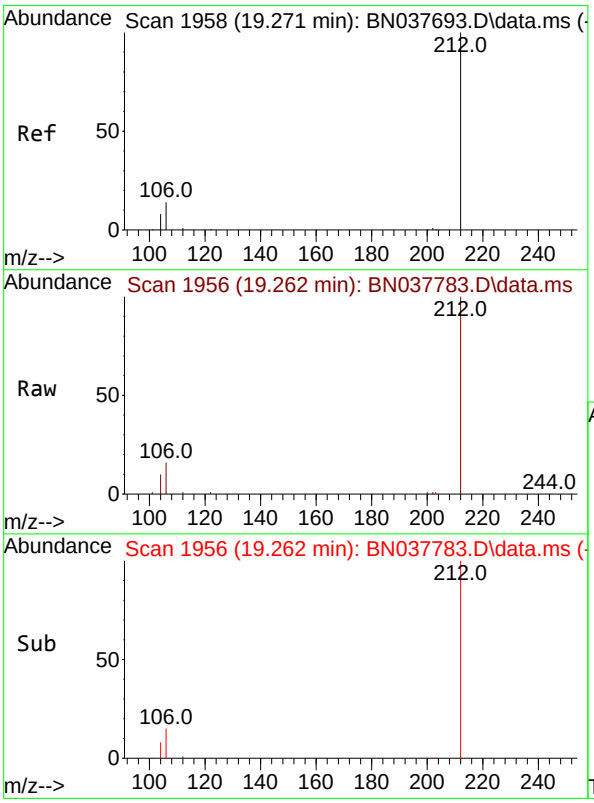

#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.235 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN037783.D
Acq: 18 Sep 2025 18:49

**Instrument :**
BNA_N
**ClientSampleId :**
RE126D1-20250910

Tgt Ion:188 Resp: 19347

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 188 | 100 | | |
| 94 | 0.0 | 0.0 | 0.0 |
| 80 | 8.5 | 10.6 | 15.8# |

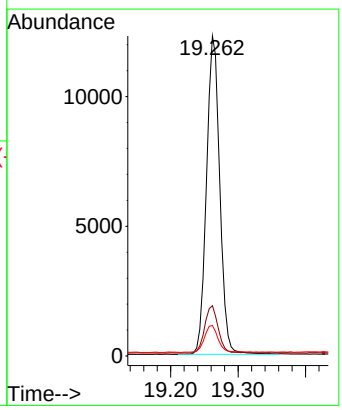


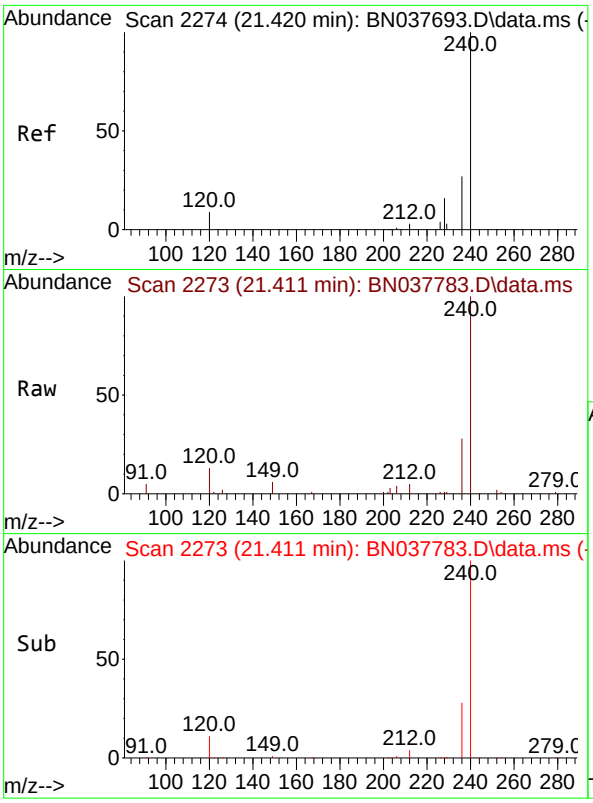




#27
Fluoranthene-d10
Concen: 0.346 ng
RT: 19.262 min Scan# 1956
Delta R.T. -0.009 min
Lab File: BN037783.D
Acq: 18 Sep 2025 18:49

Tgt Ion:212 Resp: 16784

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 212 | 100 | | |
| 106 | 15.2 | 12.2 | 18.2 |
| 104 | 8.6 | 6.9 | 10.3 |



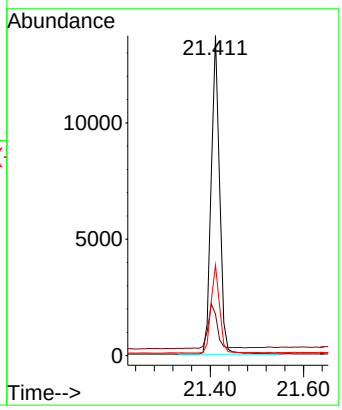


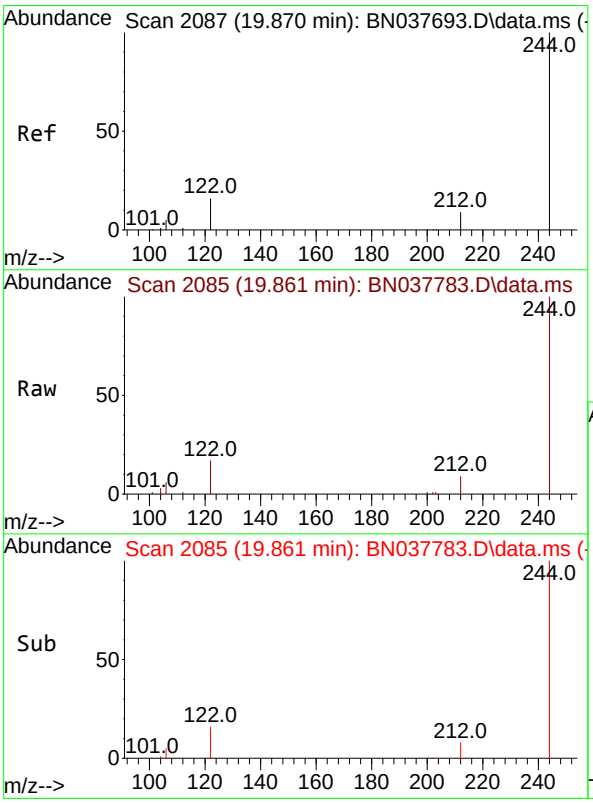

#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.411 min Scan# 2
Delta R.T. -0.009 min
Lab File: BN037783.D
Acq: 18 Sep 2025 18:49

**Instrument :**
BNA_N
**ClientSampleId :**
RE126D1-20250910

Tgt Ion:240 Resp: 17267

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 240 | 100 | | |
| 120 | 13.0 | 9.2 | 13.8 |
| 236 | 28.3 | 22.6 | 33.8 |

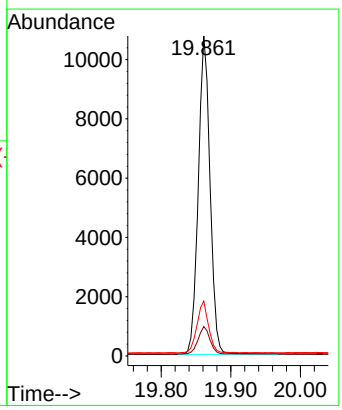


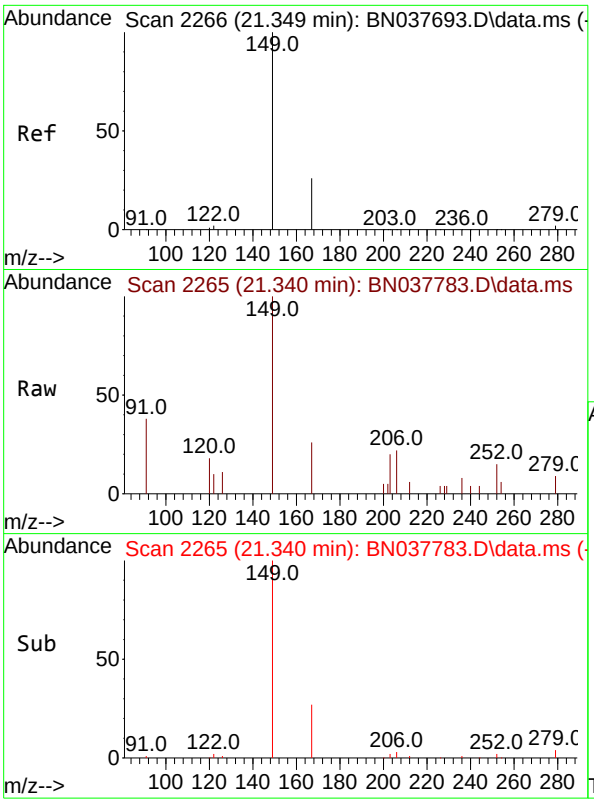




#31
Terphenyl-d14
Concen: 0.360 ng
RT: 19.861 min Scan# 2085
Delta R.T. -0.009 min
Lab File: BN037783.D
Acq: 18 Sep 2025 18:49

Tgt Ion:244 Resp: 12609

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 244 | 100 | | |
| 212 | 9.2 | 7.5 | 11.3 |
| 122 | 17.1 | 13.2 | 19.8 |



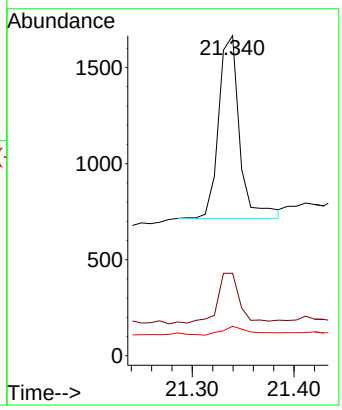


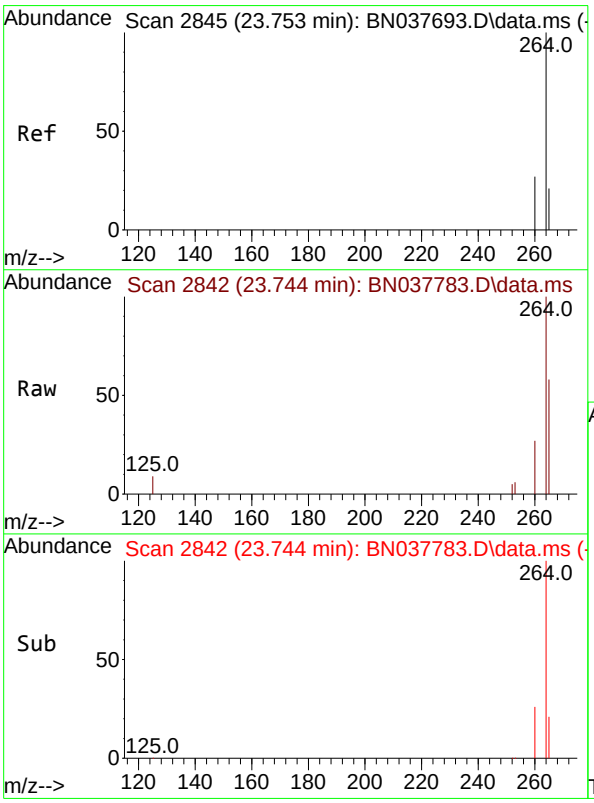

#34
Bis(2-ethylhexyl)phthalate
Concen: 0.076 ng
RT: 21.340 min Scan# 2
Delta R.T. -0.009 min
Lab File: BN037783.D
Acq: 18 Sep 2025 18:49

**Instrument :**
BNA_N
**ClientSampleId :**
RE126D1-20250910

Tgt Ion:149 Resp: 1361

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 149 | 100 | | |
| 167 | 28.1 | 20.8 | 31.2 |
| 279 | 6.6 | 3.3 | 4.9# |

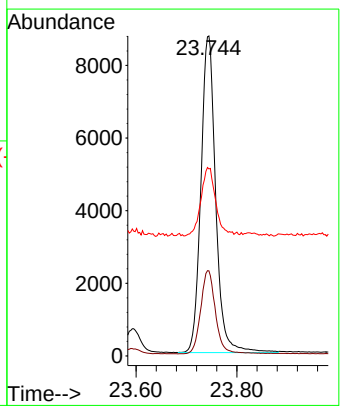



#35
Perylene-d12
Concen: 0.400 ng
RT: 23.744 min Scan# 2842
Delta R.T. -0.009 min
Lab File: BN037783.D
Acq: 18 Sep 2025 18:49

Tgt Ion:264 Resp: 17743

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 264 | 100 | | |
| 260 | 26.6 | 21.8 | 32.8 |
| 265 | 58.5 | 39.4 | 59.2 |



Raw Data: **BN037784.D**

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

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | AECOM Technical Services, Inc. | Date Collected: | 09/10/25 |
| Project: | NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258 | Date Received: | 09/12/25 |
| Client Sample ID: | MW202D1-20250910 | SDG No.: | Q3095 |
| Lab Sample ID: | Q3095-22 | Matrix: | Water |
| Analytical Method: | SW8270ESIM | % Solid: | 0 |
| Sample Wt/Vol: | 1000 Units: mL | Final Vol: | 1000 uL |
| Soil Aliquot Vol: | uL | Test: | SVOC-SIMGroup1 |
| Extraction Type : | Decanted : N | Level : | LOW |
| Injection Volume : | GPC Factor : 1.0 | GPC Cleanup : | N PH : |
| Prep Method : | | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| BN037784.D | 1 | 09/15/25 12:00 | 09/18/25 19:25 | PB169693 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOD | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | | |
| 123-91-1 | 1,4-Dioxane | 0.20 | U | 0.070 | 0.20 | 0.20 | ug/L |
| **SURROGATES** | | | | | | | |
| 7297-45-2 | 2-Methylnaphthalene-d10 | 0.34 | | 30 - 150 | | 86% | SPK: 0.4 |
| 93951-69-0 | Fluoranthene-d10 | 0.36 | | 30 - 150 | | 90% | SPK: 0.4 |
| 4165-60-0 | Nitrobenzene-d5 | 0.37 | | 55 - 111 | | 93% | SPK: 0.4 |
| 321-60-8 | 2-Fluorobiphenyl | 0.38 | | 53 - 106 | | 94% | SPK: 0.4 |
| 1718-51-0 | Terphenyl-d14 | 0.39 | | 58 - 132 | | 98% | SPK: 0.4 |
| **INTERNAL STANDARDS** | | | | | | | |
| 3855-82-1 | 1,4-Dichlorobenzene-d4 | 7720 | 7.833 | | | | |
| 1146-65-2 | Naphthalene-d8 | 20900 | 10.637 | | | | |
| 15067-26-2 | Acenaphthene-d10 | 9440 | 14.484 | | | | |
| 1517-22-2 | Phenanthrene-d10 | 16200 | 17.235 | | | | |
| 1719-03-5 | Chrysene-d12 | 13600 | 21.411 | | | | |
| 1520-96-3 | Perylene-d12 | 13800 | 23.741 | | | | |

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\BN091825\
Data File : BN037784.D
Acq On : 18 Sep 2025 19:25
Operator : RC/JU
Sample : Q3095-22
Misc :
ALS Vial : 10 Sample Multiplier: 1

**Instrument :**
BNA_N
**ClientSampleId :**
MW202D1-20250910

Quant Time: Sep 19 04:17:02 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN091125.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Sep 11 14:20:01 2025
Response via : Initial Calibration

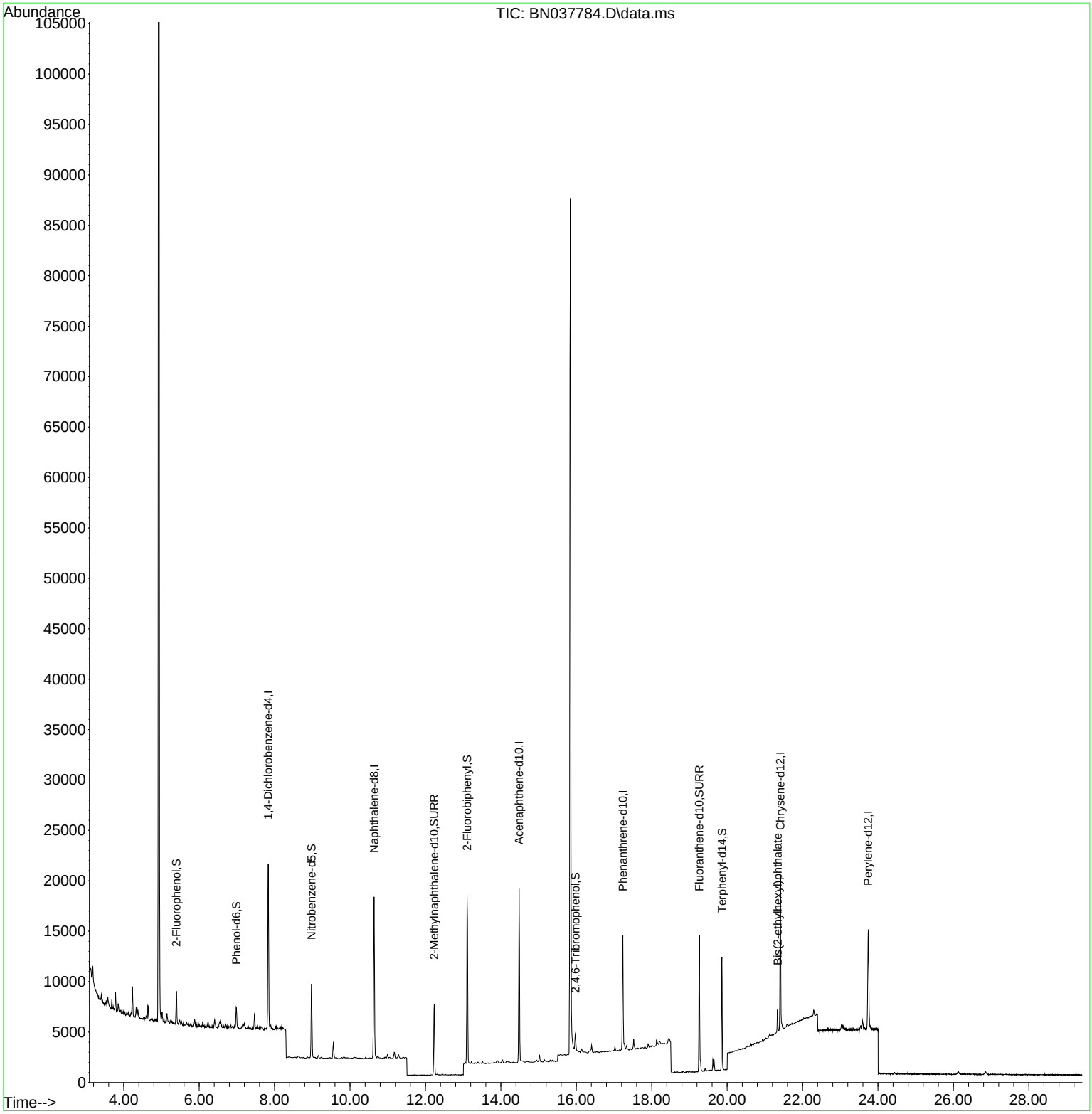
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) 1,4-Dichlorobenzene-d4 | 7.833 | 152 | 7721 | 0.400 | ng | 0.00 |
| 7) Naphthalene-d8 | 10.637 | 136 | 20880 | 0.400 | ng | -0.01 |
| 13) Acenaphthene-d10 | 14.484 | 164 | 9442 | 0.400 | ng | -0.01 |
| 19) Phenanthrene-d10 | 17.235 | 188 | 16202 | 0.400 | ng | # 0.00 |
| 29) Chrysene-d12 | 21.411 | 240 | 13556 | 0.400 | ng | 0.00 |
| 35) Perylene-d12 | 23.741 | 264 | 13782 | 0.400 | ng | #-0.01 |
| System Monitoring Compounds | | | | | | |
| 4) 2-Fluorophenol | 5.399 | 112 | 2651 | 0.150 | ng | 0.00 |
| 5) Phenol-d6 | 6.988 | 99 | 1924 | 0.084 | ng | 0.00 |
| 8) Nitrobenzene-d5 | 8.982 | 82 | 5656 | 0.370 | ng | -0.01 |
| 11) 2-Methylnaphthalene-d10 | 12.233 | 152 | 9459 | 0.342 | ng | -0.01 |
| 14) 2,4,6-Tribromophenol | 15.982 | 330 | 1049 | 0.426 | ng | 0.00 |
| 15) 2-Fluorobiphenyl | 13.105 | 172 | 14911 | 0.378 | ng | -0.01 |
| 27) Fluoranthene-d10 | 19.262 | 212 | 14723 | 0.362 | ng | 0.00 |
| 31) Terphenyl-d14 | 19.861 | 244 | 10812 | 0.393 | ng | 0.00 |
| Target Compounds | | | | | | Qvalue |
| 34) Bis(2-ethylhexyl)phtha... | 21.340 | 149 | 2668 | 0.190 | ng | 96 |

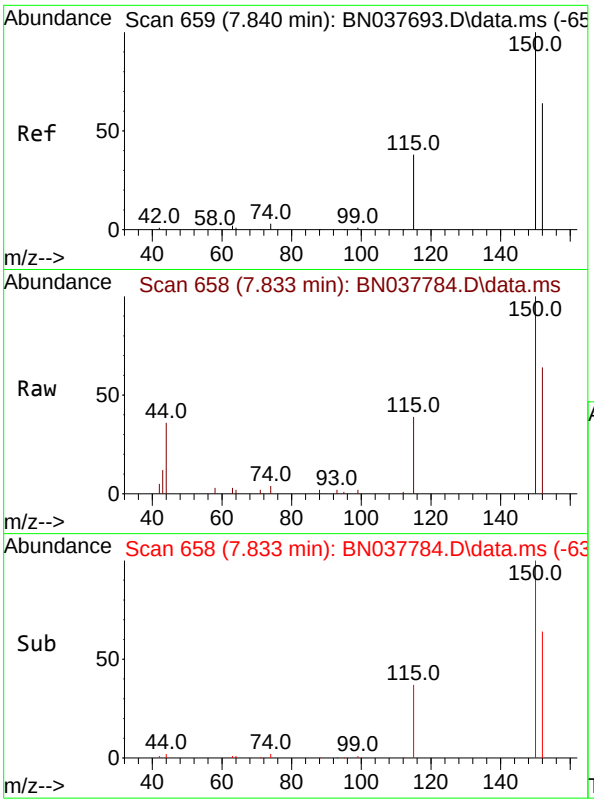
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN091825\
Data File : BN037784.D
Acq On : 18 Sep 2025 19:25
Operator : RC/JU
Sample : Q3095-22
Misc :
ALS Vial : 10 Sample Multiplier: 1

**Instrument :**
BNA_N
**ClientSampleId :**
MW202D1-20250910

Quant Time: Sep 19 04:17:02 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN091125.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Sep 11 14:20:01 2025
Response via : Initial Calibration



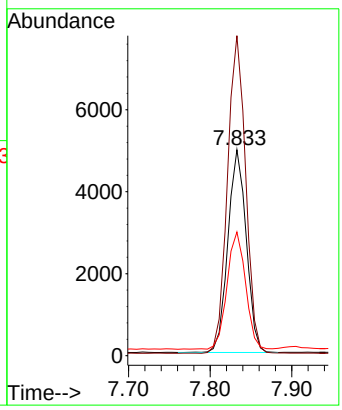


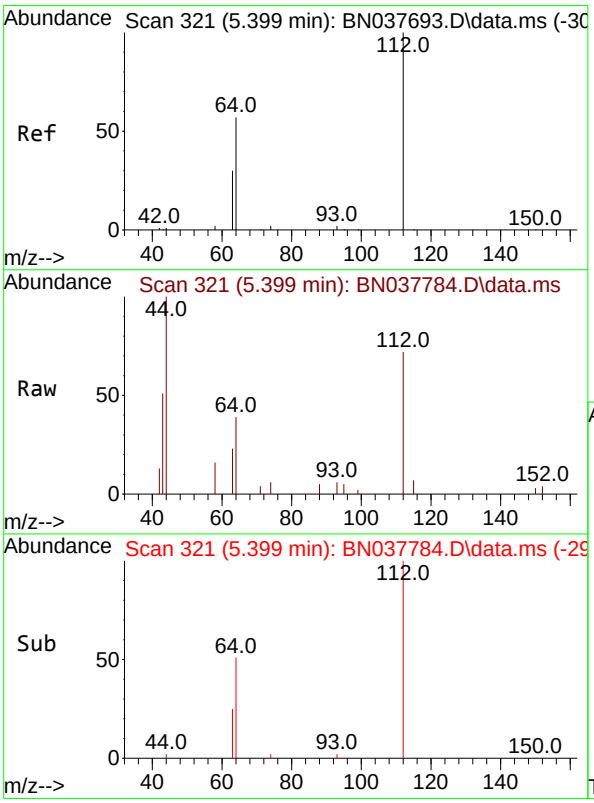

#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.833 min Scan# 6
Delta R.T. -0.007 min
Lab File: BN037784.D
Acq: 18 Sep 2025 19:25

**Instrument :**
BNA_N
**ClientSampleId :**
MW202D1-20250910

Tgt Ion:152 Resp: 7721

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 150 | 155.4 | 124.5 | 186.7 |
| 115 | 60.0 | 49.2 | 73.8 |

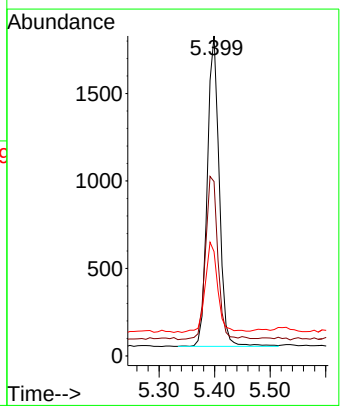


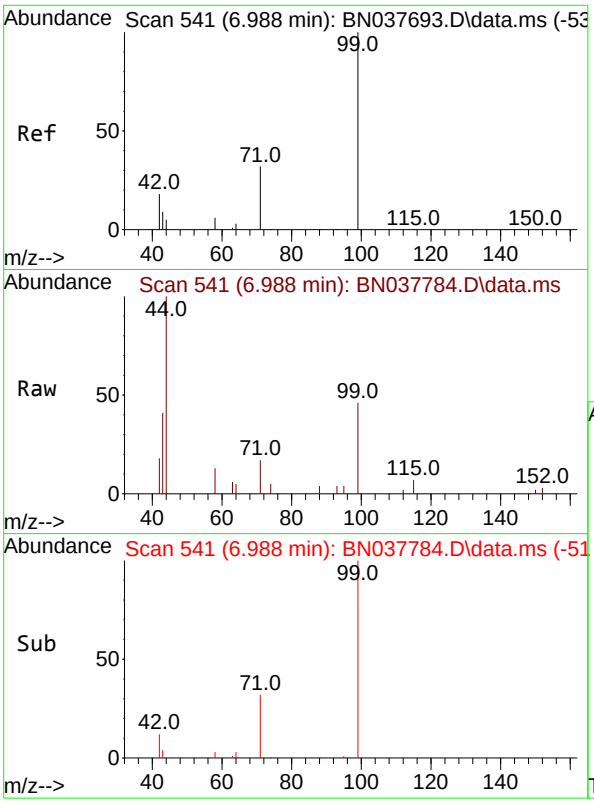




#4
2-Fluorophenol
Concen: 0.150 ng
RT: 5.399 min Scan# 321
Delta R.T. -0.000 min
Lab File: BN037784.D
Acq: 18 Sep 2025 19:25

Tgt Ion:112 Resp: 2651

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 112 | 100 | | |
| 64 | 53.9 | 44.9 | 67.3 |
| 63 | 30.7 | 24.7 | 37.1 |



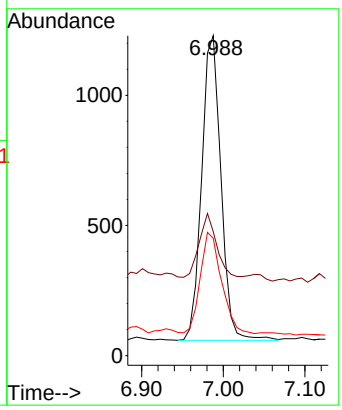


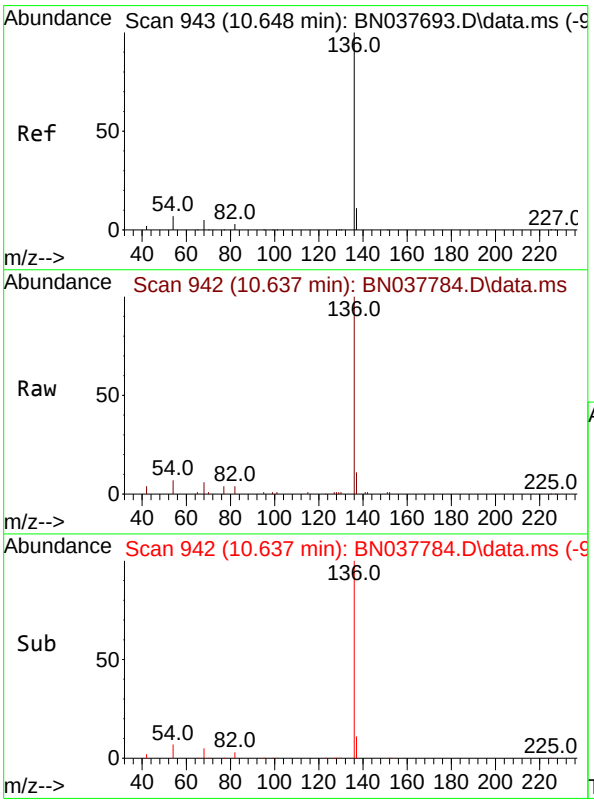

#5
Phenol-d6
Concen: 0.084 ng
RT: 6.988 min Scan# 54
Delta R.T. -0.000 min
Lab File: BN037784.D
Acq: 18 Sep 2025 19:25

**Instrument :**
BNA_N
**ClientSampleId :**
MW202D1-20250910

Tgt Ion: 99 Resp: 1924

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 99 | 100 | | |
| 42 | 19.6 | 16.6 | 24.8 |
| 71 | 36.4 | 26.7 | 40.1 |

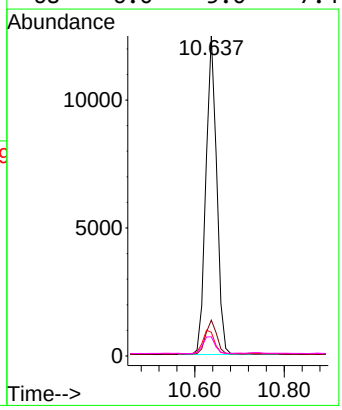


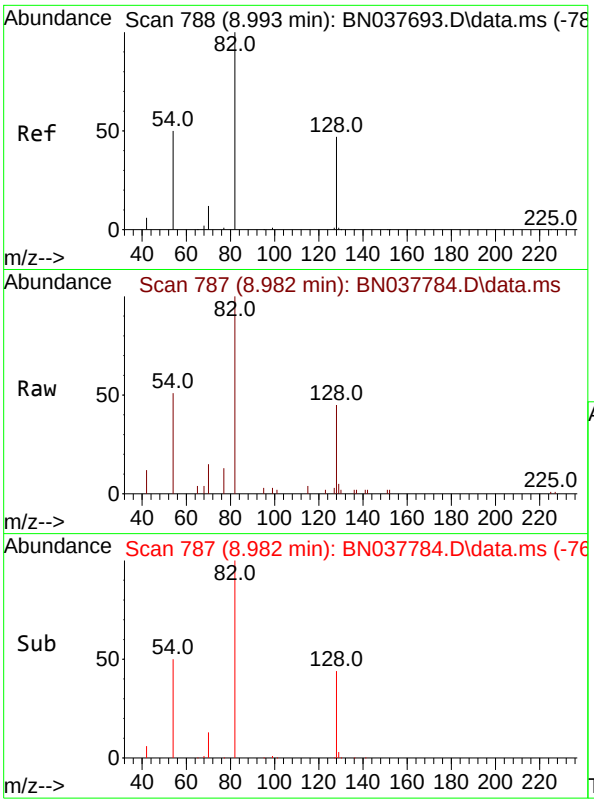




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.637 min Scan# 942
Delta R.T. -0.011 min
Lab File: BN037784.D
Acq: 18 Sep 2025 19:25

Tgt Ion:136 Resp: 20880

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 136 | 100 | | |
| 137 | 11.2 | 9.1 | 13.7 |
| 54 | 7.4 | 6.3 | 9.5 |
| 68 | 6.0 | 5.0 | 7.4 |



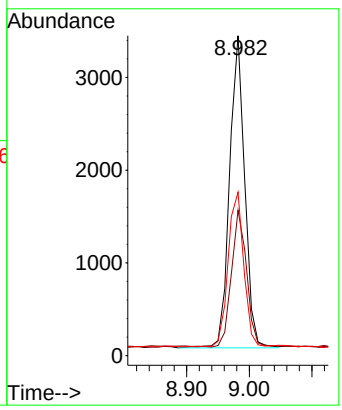


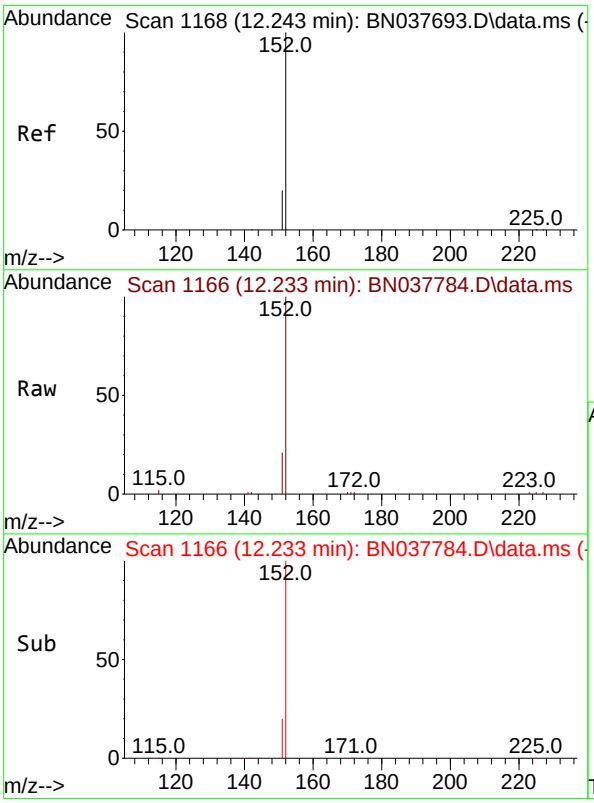

#8
Nitrobenzene-d5
Concen: 0.370 ng
RT: 8.982 min Scan# 7
Delta R.T. -0.011 min
Lab File: BN037784.D
Acq: 18 Sep 2025 19:25

**Instrument :**
BNA_N
**ClientSampleId :**
MW202D1-20250910

Tgt Ion: 82 Resp: 5656

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 82 | 100 | | |
| 128 | 45.4 | 38.3 | 57.5 |
| 54 | 51.1 | 41.4 | 62.2 |

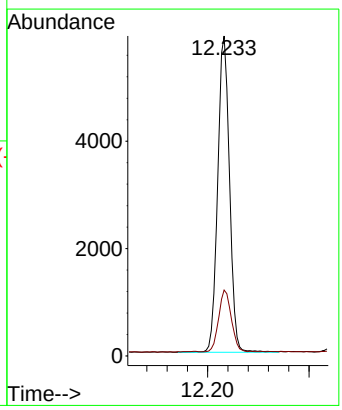


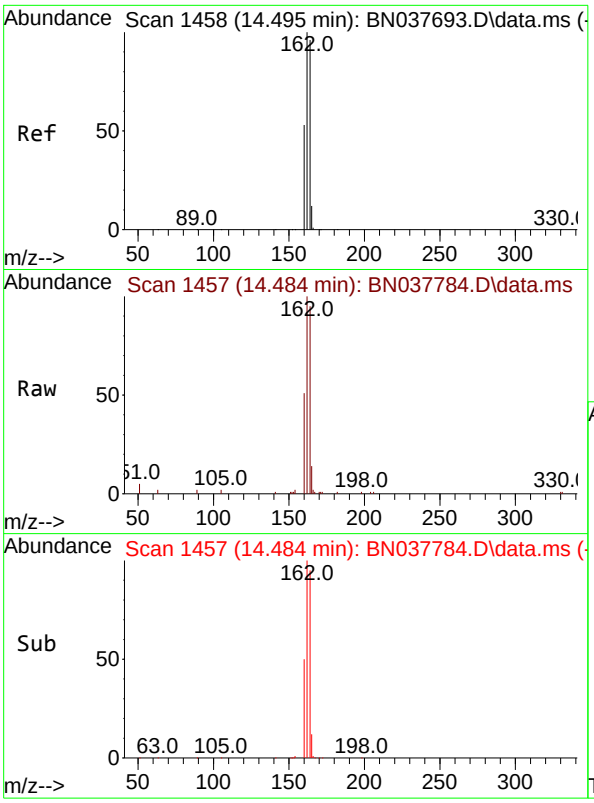




#11
2-Methylnaphthalene-d10
Concen: 0.342 ng
RT: 12.233 min Scan# 1166
Delta R.T. -0.010 min
Lab File: BN037784.D
Acq: 18 Sep 2025 19:25

Tgt Ion:152 Resp: 9459

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



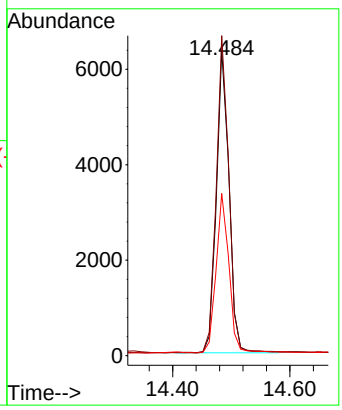


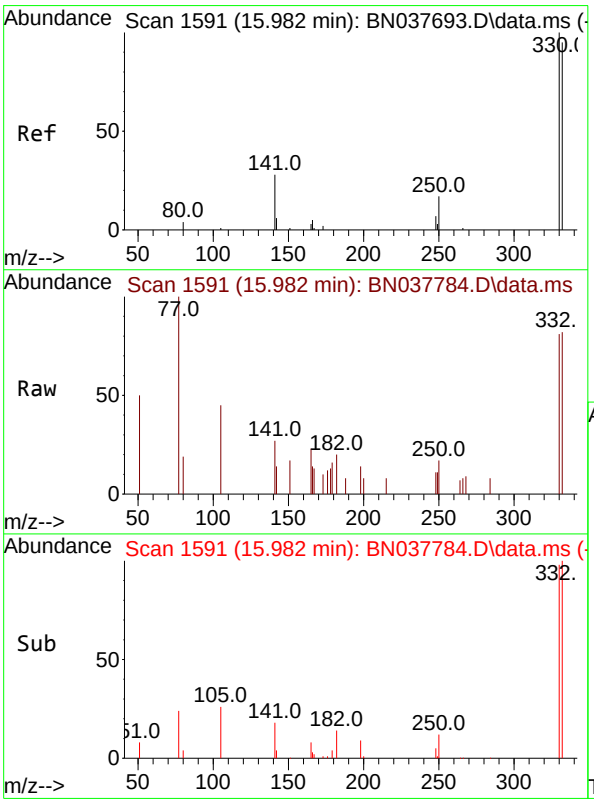

#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.484 min Scan# 14
Delta R.T. -0.011 min
Lab File: BN037784.D
Acq: 18 Sep 2025 19:25

**Instrument :**
BNA_N
**ClientSampleId :**
MW202D1-20250910

Tgt Ion:164 Resp: 9442

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 164 | 100 | | |
| 162 | 104.7 | 83.1 | 124.7 |
| 160 | 53.1 | 44.3 | 66.5 |

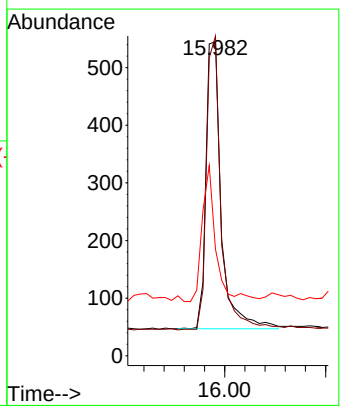


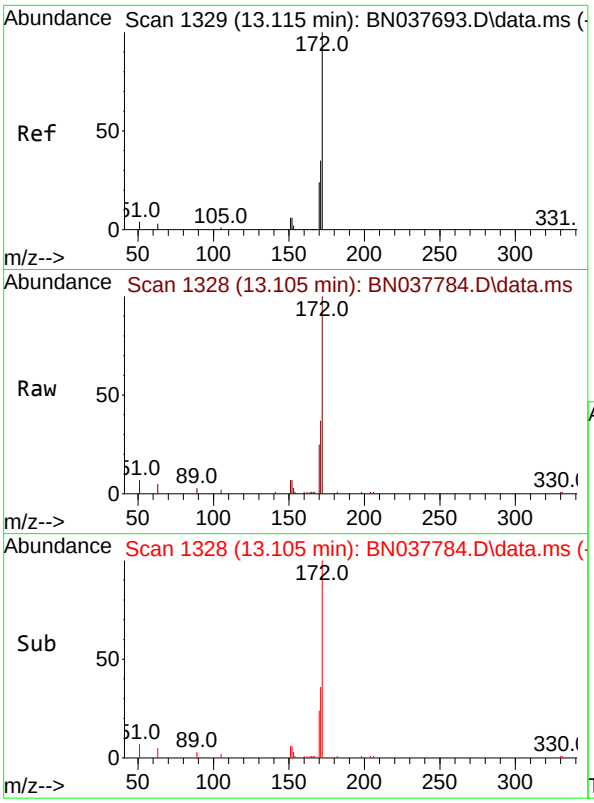




#14
2,4,6-Tribromophenol
Concen: 0.426 ng
RT: 15.982 min Scan# 1591
Delta R.T. -0.000 min
Lab File: BN037784.D
Acq: 18 Sep 2025 19:25

Tgt Ion:330 Resp: 1049

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 330 | 100 | | |
| 332 | 96.4 | 75.3 | 112.9 |
| 141 | 40.0 | 35.0 | 52.4 |



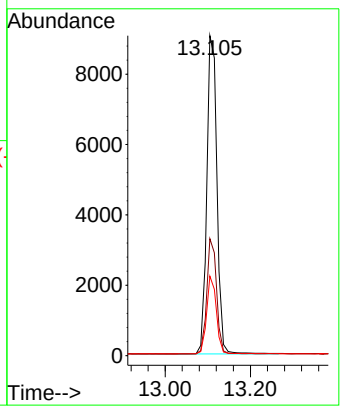


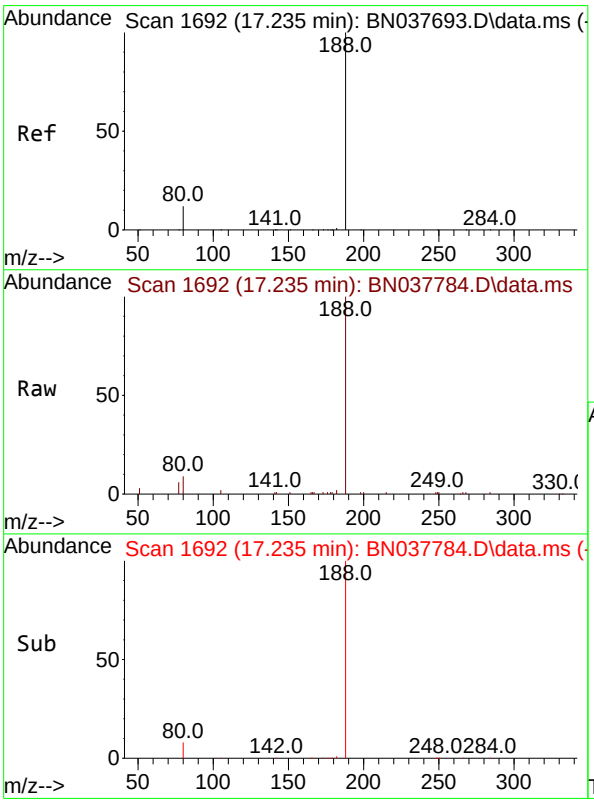

#15
2-Fluorobiphenyl
Concen: 0.378 ng
RT: 13.105 min Scan# 1
Delta R.T. -0.011 min
Lab File: BN037784.D
Acq: 18 Sep 2025 19:25

**Instrument :**
BNA_N
**ClientSampleId :**
MW202D1-20250910

Tgt Ion:172 Resp: 14911

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 172 | 100 | | |
| 171 | 36.6 | 28.6 | 43.0 |
| 170 | 24.8 | 19.8 | 29.8 |

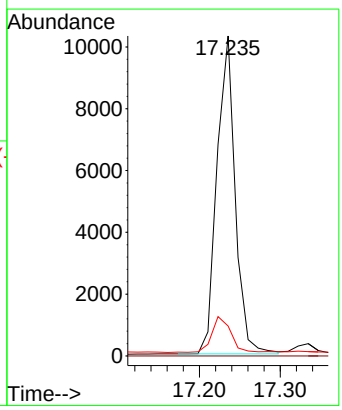


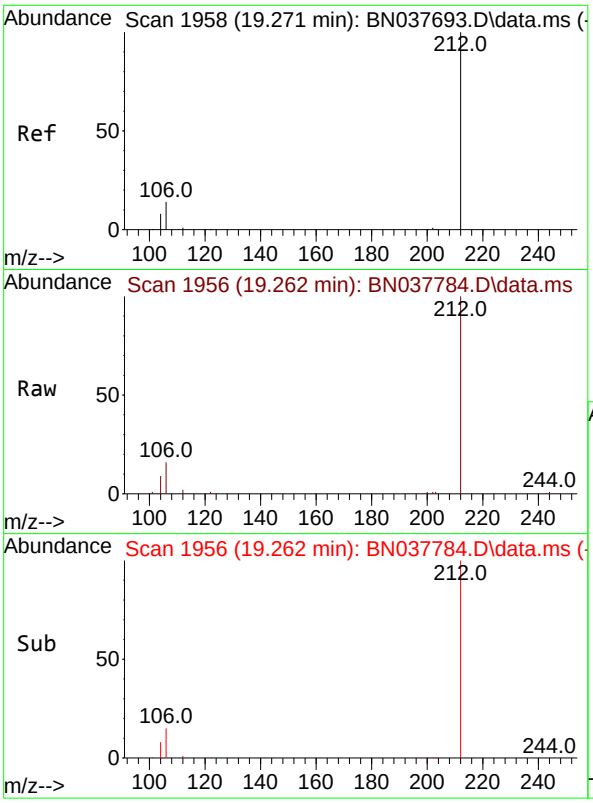




#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.235 min Scan# 1692
Delta R.T. -0.000 min
Lab File: BN037784.D
Acq: 18 Sep 2025 19:25

Tgt Ion:188 Resp: 16202

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 188 | 100 | | |
| 94 | 0.0 | 0.0 | 0.0 |
| 80 | 9.3 | 10.6 | 15.8# |



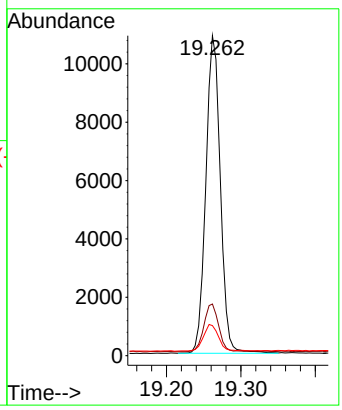


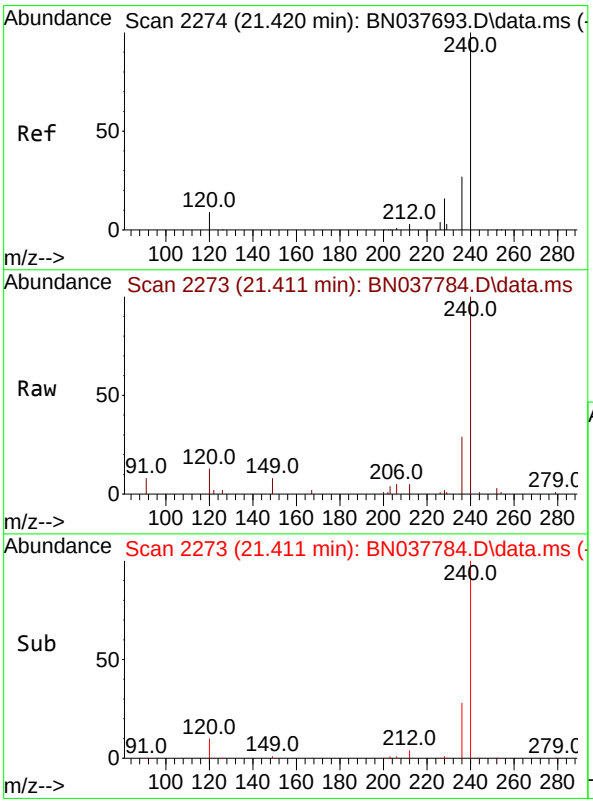

#27
Fluoranthene-d10
Concen: 0.362 ng
RT: 19.262 min Scan# 1
Delta R.T. -0.009 min
Lab File: BN037784.D
Acq: 18 Sep 2025 19:25

**Instrument :**
BNA_N
**ClientSampleId :**
MW202D1-20250910

Tgt Ion:212 Resp: 14723

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 212 | 100 | | |
| 106 | 15.3 | 12.2 | 18.2 |
| 104 | 8.6 | 6.9 | 10.3 |

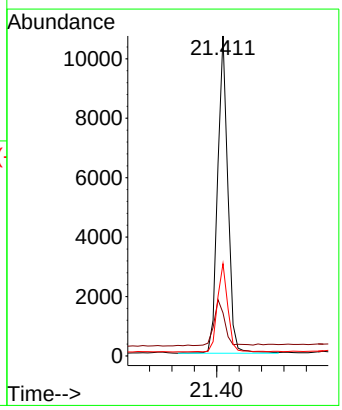


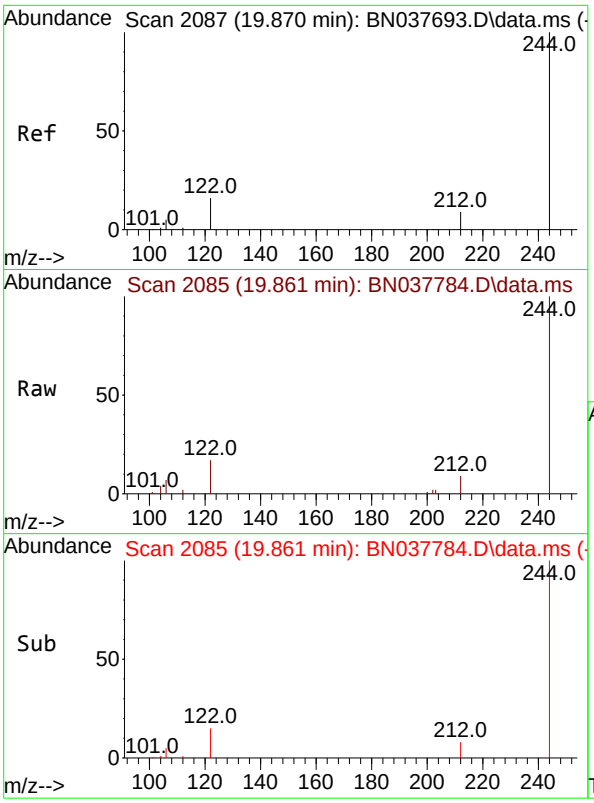




#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.411 min Scan# 2273
Delta R.T. -0.009 min
Lab File: BN037784.D
Acq: 18 Sep 2025 19:25

Tgt Ion:240 Resp: 13556

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 240 | 100 | | |
| 120 | 13.5 | 9.2 | 13.8 |
| 236 | 28.8 | 22.6 | 33.8 |



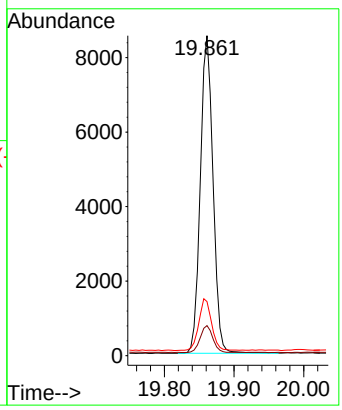


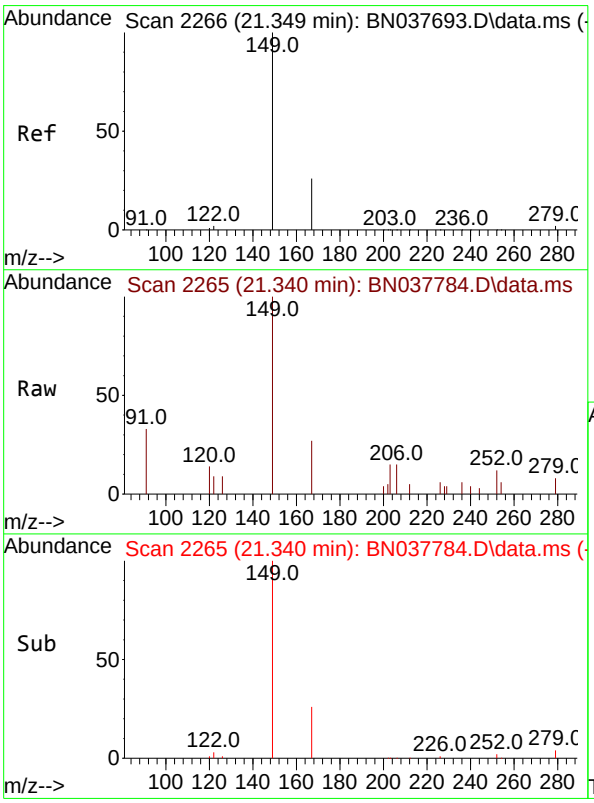

#31
Terphenyl-d14
Concen: 0.393 ng
RT: 19.861 min Scan# 2
Delta R.T. -0.009 min
Lab File: BN037784.D
Acq: 18 Sep 2025 19:25

**Instrument :**
BNA_N
**ClientSampleId :**
MW202D1-20250910

Tgt Ion:244 Resp: 10812

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 244 | 100 | | |
| 212 | 9.4 | 7.5 | 11.3 |
| 122 | 16.9 | 13.2 | 19.8 |

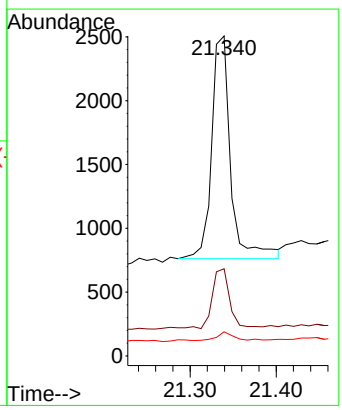


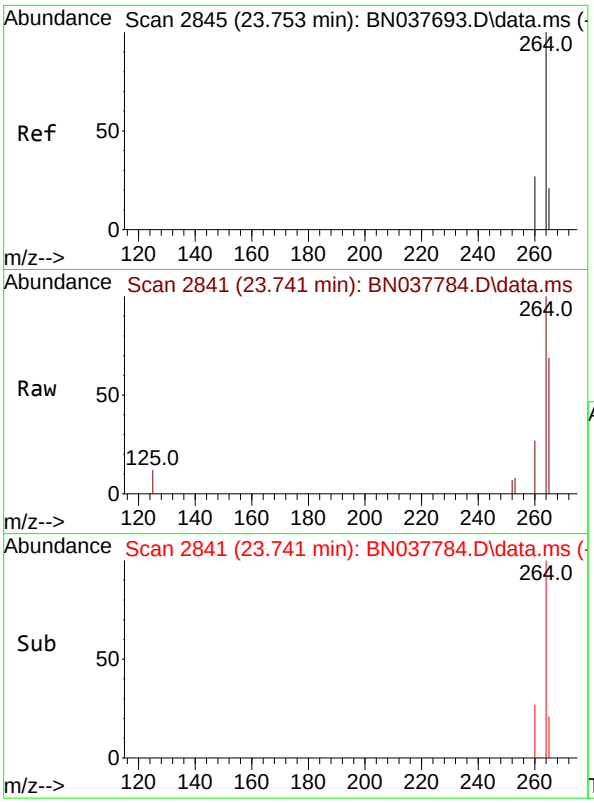




#34
Bis(2-ethylhexyl)phthalate
Concen: 0.190 ng
RT: 21.340 min Scan# 2265
Delta R.T. -0.009 min
Lab File: BN037784.D
Acq: 18 Sep 2025 19:25

Tgt Ion:149 Resp: 2668

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 149 | 100 | | |
| 167 | 23.5 | 20.8 | 31.2 |
| 279 | 3.3 | 3.3 | 4.9 |



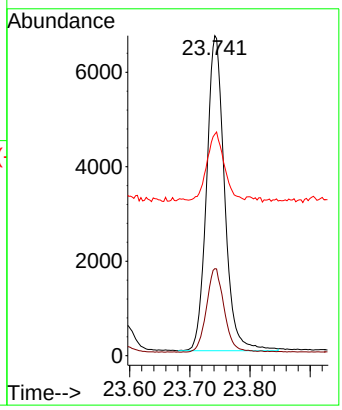



#35
Perylene-d12
Concen: 0.400 ng
RT: 23.741 min Scan# 2
Delta R.T. -0.012 min
Lab File: BN037784.D
Acq: 18 Sep 2025 19:25

**Instrument :**
BNA_N
**ClientSampleId :**
MW202D1-20250910

Tgt Ion:264 Resp: 13782

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 264 | 100 | | |
| 260 | 27.2 | 21.8 | 32.8 |
| 265 | 69.2 | 39.4 | 59.2# |



Raw Data: **BN037785.D**

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

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | AECOM Technical Services, Inc. | Date Collected: | 09/10/25 |
| Project: | NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258 | Date Received: | 09/12/25 |
| Client Sample ID: | RE104D2-20250910 | SDG No.: | Q3095 |
| Lab Sample ID: | Q3095-23 | Matrix: | Water |
| Analytical Method: | SW8270ESIM | % Solid: | 0 |
| Sample Wt/Vol: | 980 Units: mL | Final Vol: | 1000 uL |
| Soil Aliquot Vol: | uL | Test: | SVOC-SIMGroup1 |
| Extraction Type : | Decanted : N | Level : | LOW |
| Injection Volume : | GPC Factor : 1.0 | GPC Cleanup : | N PH : |
| Prep Method : | | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| BN037785.D | 1 | 09/15/25 12:00 | 09/18/25 20:02 | PB169693 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOD | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | | |
| 123-91-1 | 1,4-Dioxane | 2.10 | | 0.070 | 0.20 | 0.20 | ug/L |
| **SURROGATES** | | | | | | | |
| 7297-45-2 | 2-Methylnaphthalene-d10 | 0.32 | | 30 - 150 | | 81% | SPK: 0.4 |
| 93951-69-0 | Fluoranthene-d10 | 0.38 | | 30 - 150 | | 95% | SPK: 0.4 |
| 4165-60-0 | Nitrobenzene-d5 | 0.35 | | 55 - 111 | | 88% | SPK: 0.4 |
| 321-60-8 | 2-Fluorobiphenyl | 0.35 | | 53 - 106 | | 86% | SPK: 0.4 |
| 1718-51-0 | Terphenyl-d14 | 0.40 | | 58 - 132 | | 99% | SPK: 0.4 |
| **INTERNAL STANDARDS** | | | | | | | |
| 3855-82-1 | 1,4-Dichlorobenzene-d4 | 7420 | 7.833 | | | | |
| 1146-65-2 | Naphthalene-d8 | 19800 | 10.637 | | | | |
| 15067-26-2 | Acenaphthene-d10 | 9120 | 14.484 | | | | |
| 1517-22-2 | Phenanthrene-d10 | 16800 | 17.235 | | | | |
| 1719-03-5 | Chrysene-d12 | 15000 | 21.411 | | | | |
| 1520-96-3 | Perylene-d12 | 14800 | 23.741 | | | | |

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

Sample Results: **BN037785.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN091825\
Data File : BN037785.D
Acq On : 18 Sep 2025 20:02
Operator : RC/JU
Sample : Q3095-23
Misc :
ALS Vial : 11 Sample Multiplier: 1

**Instrument :**
BNA_N
**ClientSampleId :**
RE104D2-20250910

Quant Time: Sep 19 04:10:58 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN091125.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Sep 11 14:20:01 2025
Response via : Initial Calibration

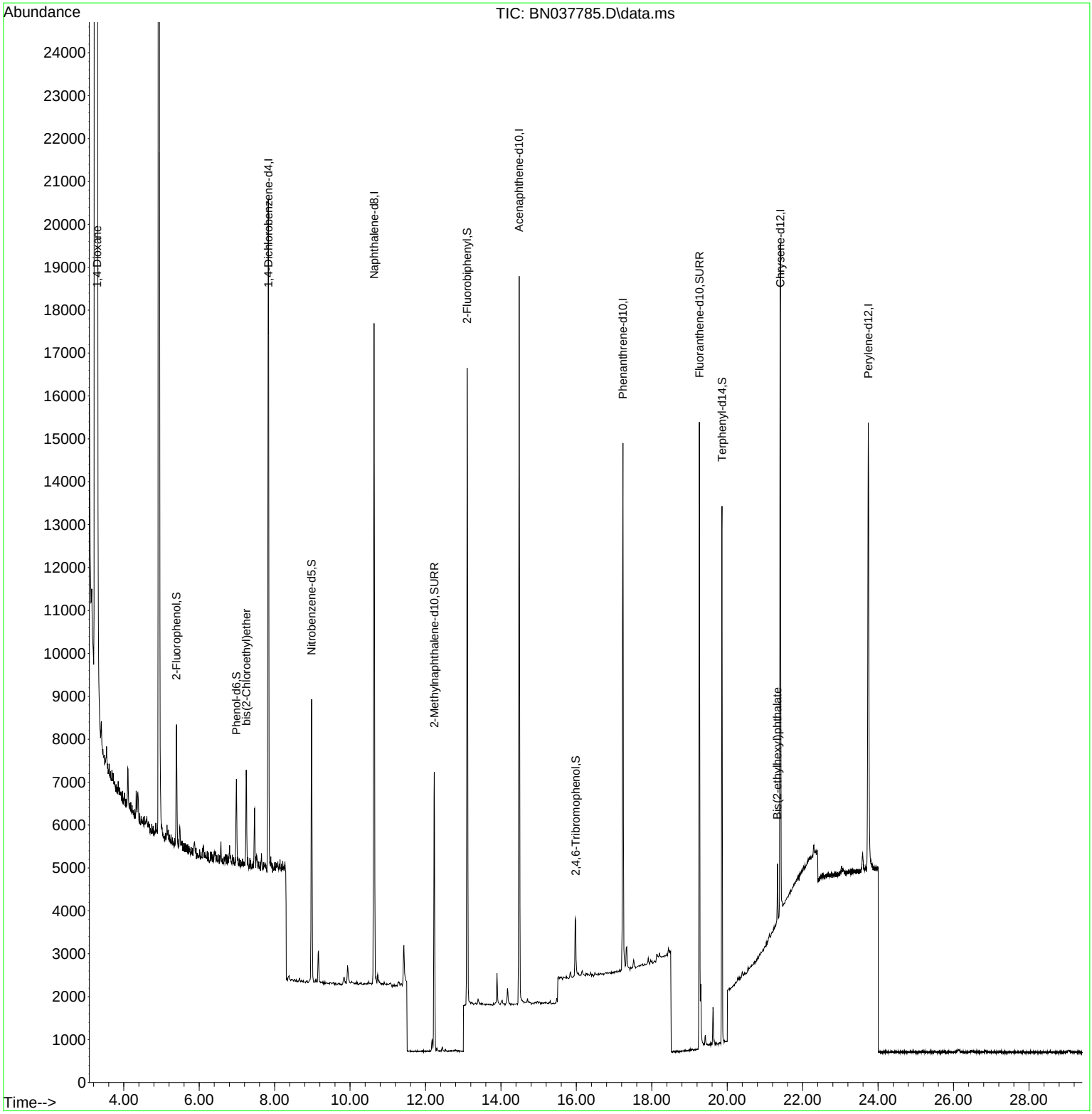
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) 1,4-Dichlorobenzene-d4 | 7.833 | 152 | 7416 | 0.400 | ng | 0.00 |
| 7) Naphthalene-d8 | 10.637 | 136 | 19792 | 0.400 | ng | -0.01 |
| 13) Acenaphthene-d10 | 14.484 | 164 | 9115 | 0.400 | ng | -0.01 |
| 19) Phenanthrene-d10 | 17.235 | 188 | 16768 | 0.400 | ng | # 0.00 |
| 29) Chrysene-d12 | 21.411 | 240 | 14951 | 0.400 | ng | 0.00 |
| 35) Perylene-d12 | 23.741 | 264 | 14804 | 0.400 | ng | #-0.01 |
| System Monitoring Compounds | | | | | | |
| 4) 2-Fluorophenol | 5.399 | 112 | 2307 | 0.136 | ng | 0.00 |
| 5) Phenol-d6 | 6.988 | 99 | 1691 | 0.077 | ng | 0.00 |
| 8) Nitrobenzene-d5 | 8.982 | 82 | 5110 | 0.353 | ng | -0.01 |
| 11) 2-Methylnaphthalene-d10 | 12.232 | 152 | 8502 | 0.324 | ng | -0.01 |
| 14) 2,4,6-Tribromophenol | 15.982 | 330 | 987 | 0.415 | ng | 0.00 |
| 15) 2-Fluorobiphenyl | 13.105 | 172 | 13157 | 0.345 | ng | -0.01 |
| 27) Fluoranthene-d10 | 19.262 | 212 | 16067 | 0.382 | ng | 0.00 |
| 31) Terphenyl-d14 | 19.861 | 244 | 12035 | 0.397 | ng | 0.00 |
| Target Compounds | | | | | | Qvalue |
| 2) 1,4-Dioxane | 3.297 | 88 | 15980 | 2.069 | ng | 96 |
| 6) bis(2-Chloroethyl)ether | 7.248 | 93 | 1596 | 0.081 | ng | 97 |
| 34) Bis(2-ethylhexyl)phtha... | 21.330 | 149 | 1394 | 0.090 | ng | # 95 |

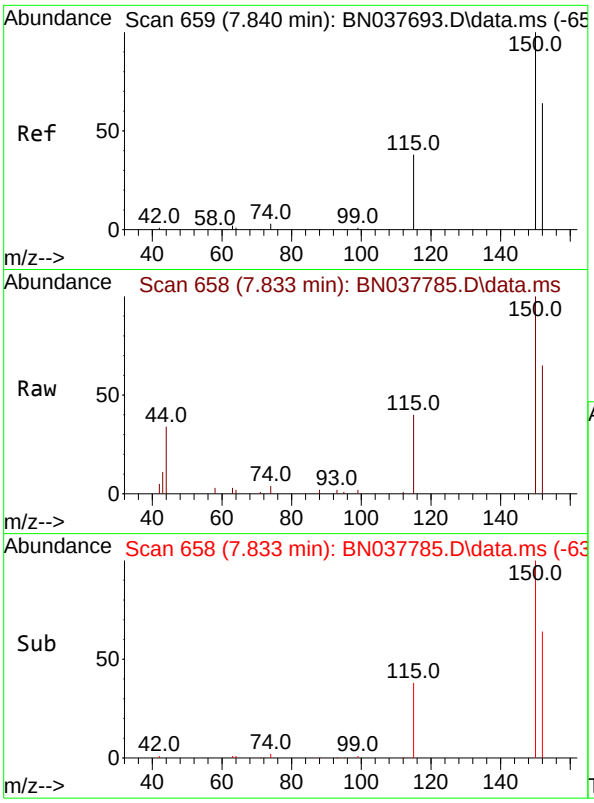
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN091825\
Data File : BN037785.D
Acq On : 18 Sep 2025 20:02
Operator : RC/JU
Sample : Q3095-23
Misc :
ALS Vial : 11 Sample Multiplier: 1

**Instrument :**
BNA_N
**ClientSampleId :**
RE104D2-20250910

Quant Time: Sep 19 04:10:58 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN091125.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Sep 11 14:20:01 2025
Response via : Initial Calibration



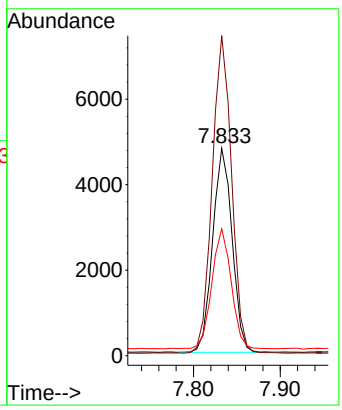


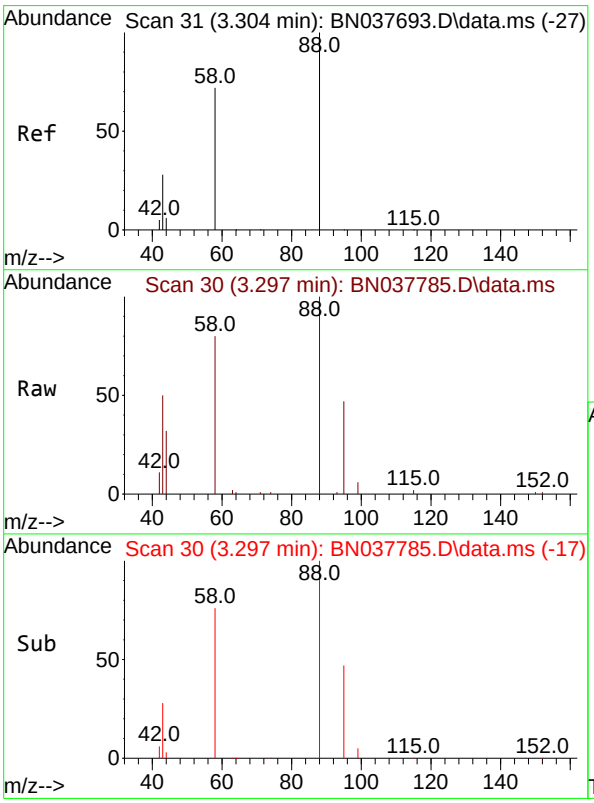

#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.833 min Scan# 6
Delta R.T. -0.007 min
Lab File: BN037785.D
Acq: 18 Sep 2025 20:02

**Instrument :**
BNA_N
**ClientSampleId :**
RE104D2-20250910

Tgt Ion:152 Resp: 7416

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 150 | 154.3 | 124.5 | 186.7 |
| 115 | 61.2 | 49.2 | 73.8 |

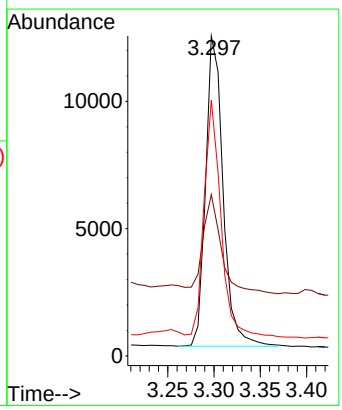


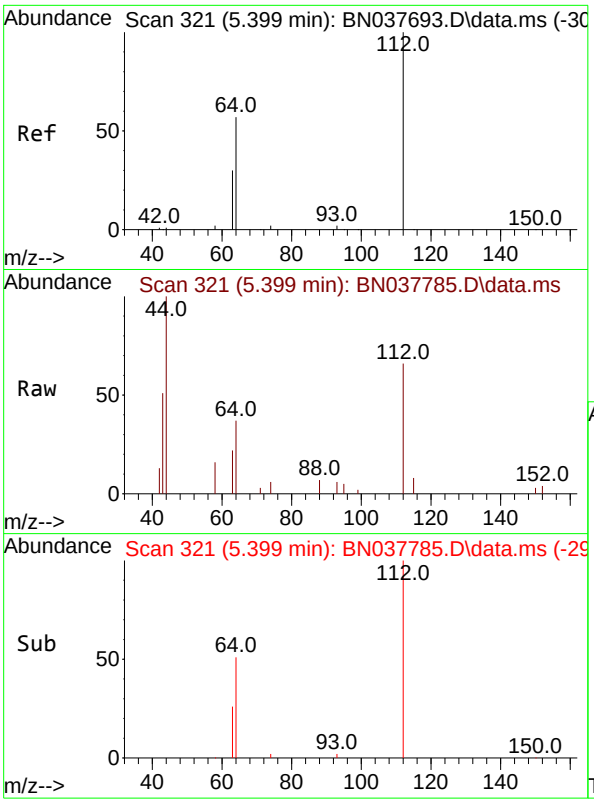




#2
1,4-Dioxane
Concen: 2.069 ng
RT: 3.297 min Scan# 30
Delta R.T. -0.007 min
Lab File: BN037785.D
Acq: 18 Sep 2025 20:02

Tgt Ion: 88 Resp: 15980

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 88 | 100 | | |
| 43 | 33.8 | 26.8 | 40.2 |
| 58 | 73.0 | 61.9 | 92.9 |



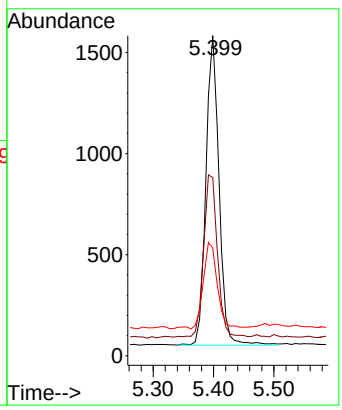


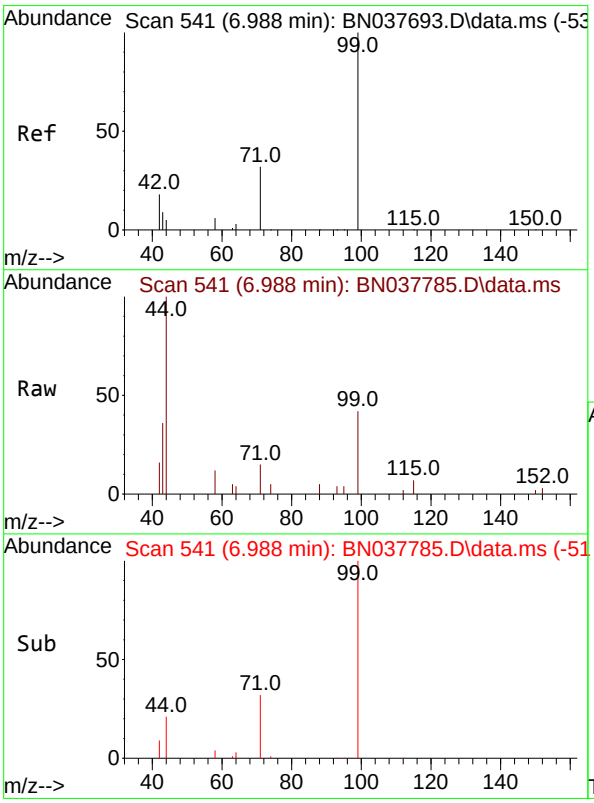

#4
2-Fluorophenol
Concen: 0.136 ng
RT: 5.399 min Scan# 3
Delta R.T. -0.000 min
Lab File: BN037785.D
Acq: 18 Sep 2025 20:02

**Instrument :**
BNA_N
**ClientSampleId :**
RE104D2-20250910

Tgt Ion:112 Resp: 2307

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 112 | 100 | | |
| 64 | 55.4 | 44.9 | 67.3 |
| 63 | 29.9 | 24.7 | 37.1 |

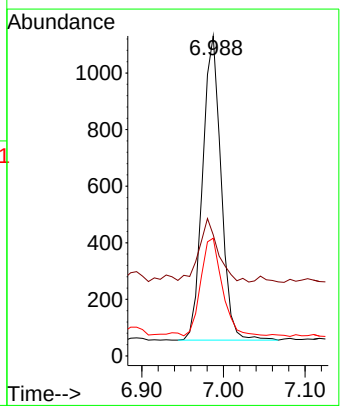


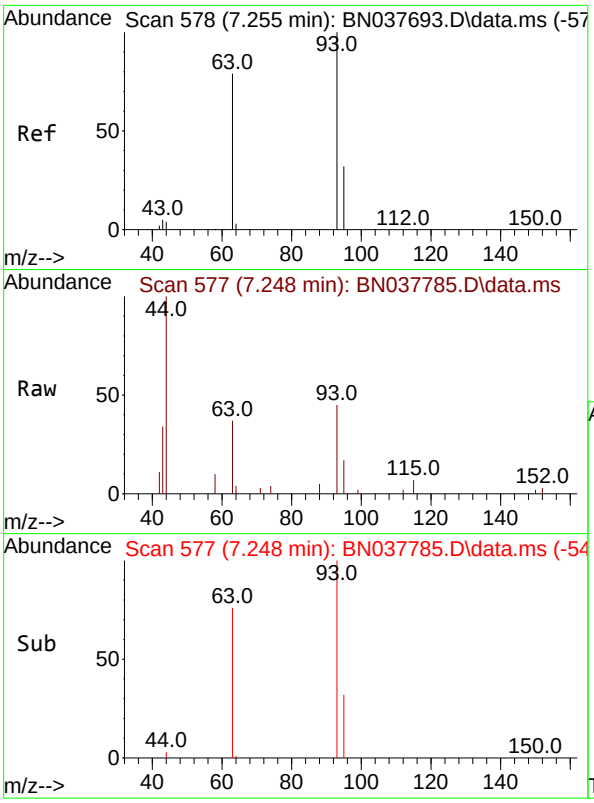




#5
Phenol-d6
Concen: 0.077 ng
RT: 6.988 min Scan# 541
Delta R.T. -0.000 min
Lab File: BN037785.D
Acq: 18 Sep 2025 20:02

Tgt Ion: 99 Resp: 1691

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 99 | 100 | | |
| 42 | 21.7 | 16.6 | 24.8 |
| 71 | 37.3 | 26.7 | 40.1 |



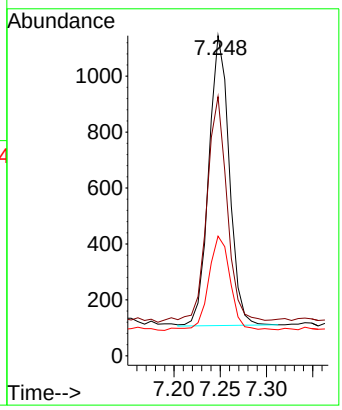


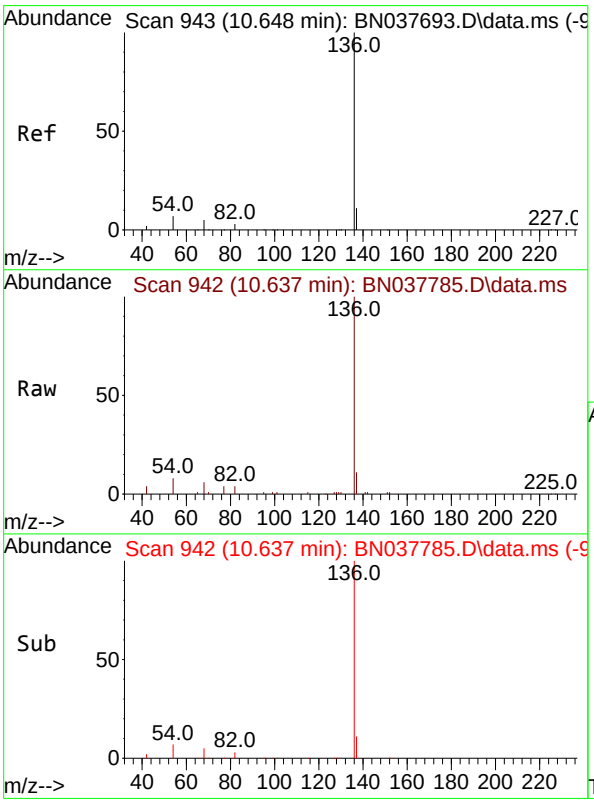

#6
bis(2-Chloroethyl)ether
Concen: 0.081 ng
RT: 7.248 min Scan# 5
Delta R.T. -0.007 min
Lab File: BN037785.D
Acq: 18 Sep 2025 20:02

**Instrument :**
BNA_N
**ClientSampleId :**
RE104D2-20250910

Tgt Ion: 93 Resp: 1596

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 93 | 100 | | |
| 63 | 77.9 | 60.6 | 90.8 |
| 95 | 34.6 | 26.0 | 39.0 |

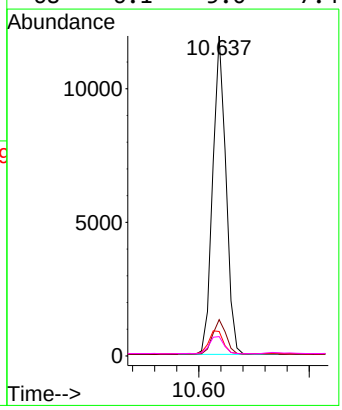


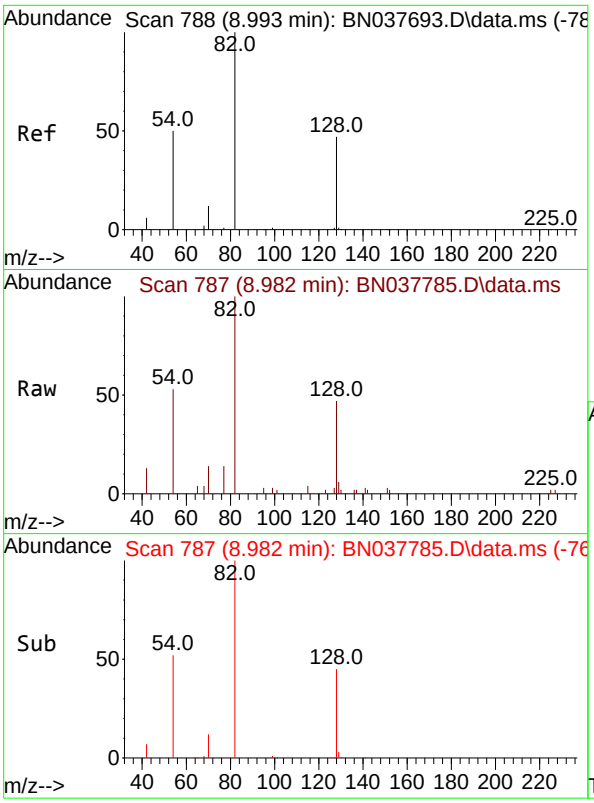




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.637 min Scan# 942
Delta R.T. -0.011 min
Lab File: BN037785.D
Acq: 18 Sep 2025 20:02

Tgt Ion:136 Resp: 19792

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 136 | 100 | | |
| 137 | 11.4 | 9.1 | 13.7 |
| 54 | 7.6 | 6.3 | 9.5 |
| 68 | 6.1 | 5.0 | 7.4 |



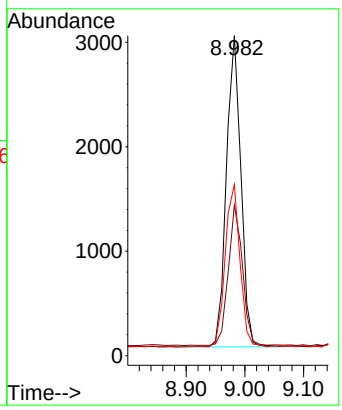


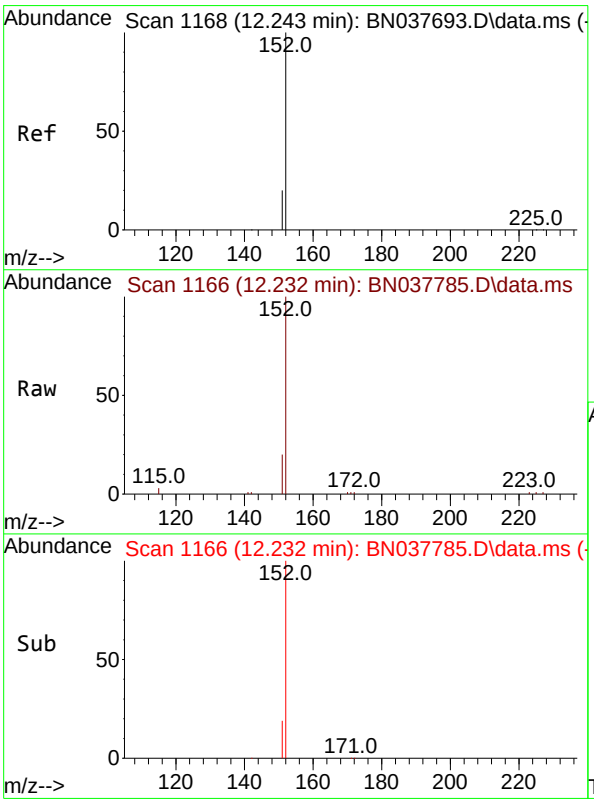

#8
Nitrobenzene-d5
Concen: 0.353 ng
RT: 8.982 min Scan# 7
Delta R.T. -0.011 min
Lab File: BN037785.D
Acq: 18 Sep 2025 20:02

**Instrument :**
BNA_N
**ClientSampleId :**
RE104D2-20250910

Tgt Ion: 82 Resp: 5110

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 82 | 100 | | |
| 128 | 47.0 | 38.3 | 57.5 |
| 54 | 53.5 | 41.4 | 62.2 |

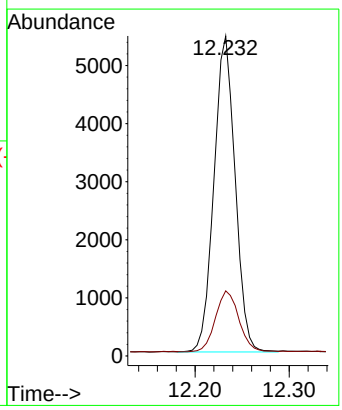


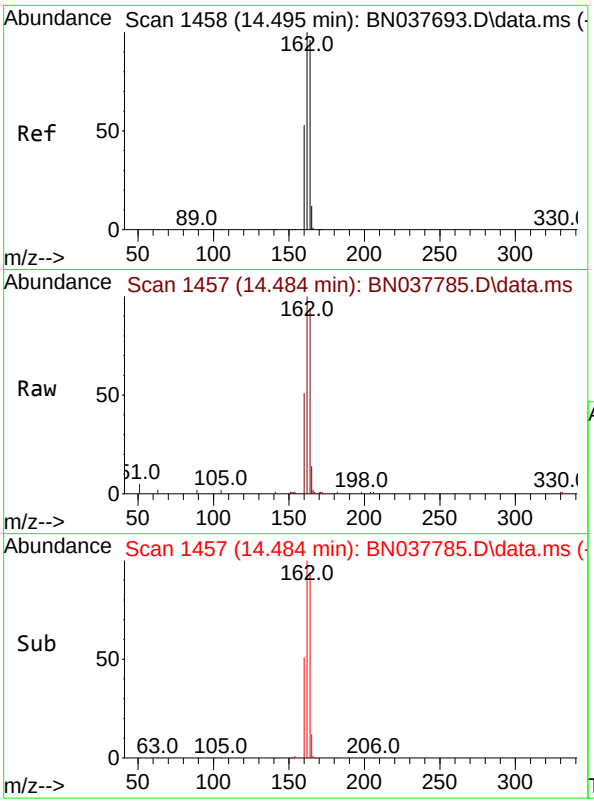




#11
2-Methylnaphthalene-d10
Concen: 0.324 ng
RT: 12.232 min Scan# 1166
Delta R.T. -0.010 min
Lab File: BN037785.D
Acq: 18 Sep 2025 20:02

Tgt Ion:152 Resp: 8502

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



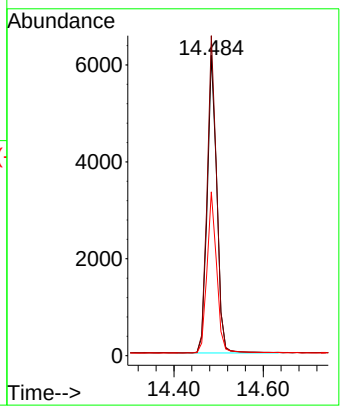


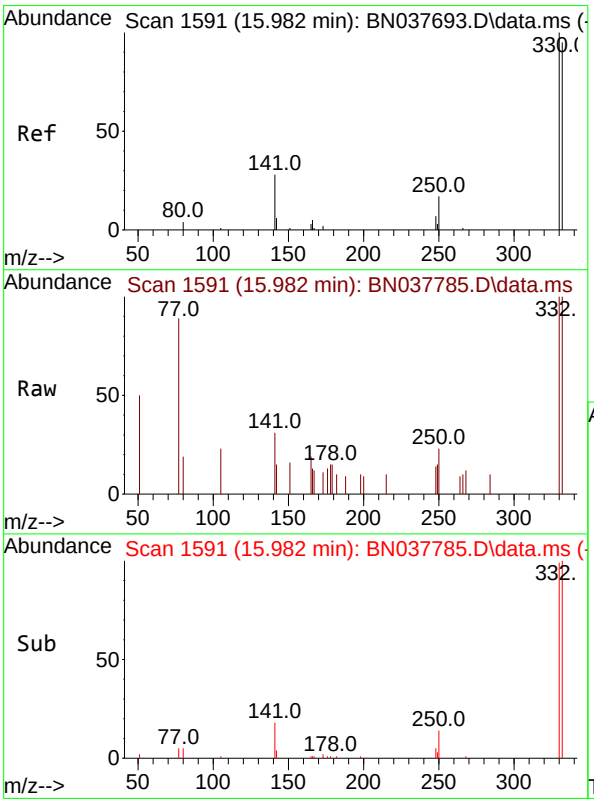

#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.484 min Scan# 14
Delta R.T. -0.011 min
Lab File: BN037785.D
Acq: 18 Sep 2025 20:02

**Instrument :**
BNA_N
**ClientSampleId :**
RE104D2-20250910

Tgt Ion:164 Resp: 9115

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 164 | 100 | | |
| 162 | 106.5 | 83.1 | 124.7 |
| 160 | 54.6 | 44.3 | 66.5 |

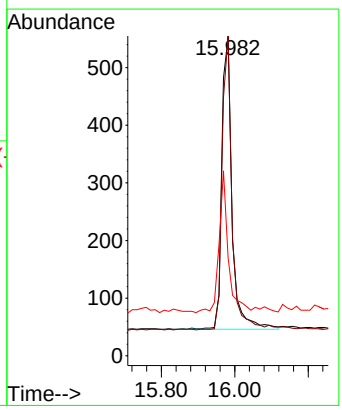


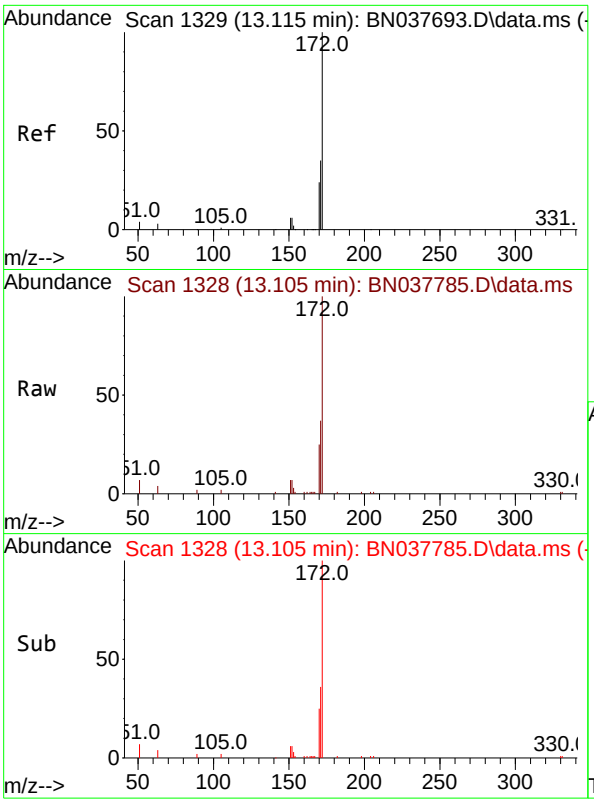




#14
2,4,6-Tribromophenol
Concen: 0.415 ng
RT: 15.982 min Scan# 1591
Delta R.T. -0.000 min
Lab File: BN037785.D
Acq: 18 Sep 2025 20:02

Tgt Ion:330 Resp: 987

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 330 | 100 | | |
| 332 | 96.3 | 75.3 | 112.9 |
| 141 | 43.2 | 35.0 | 52.4 |



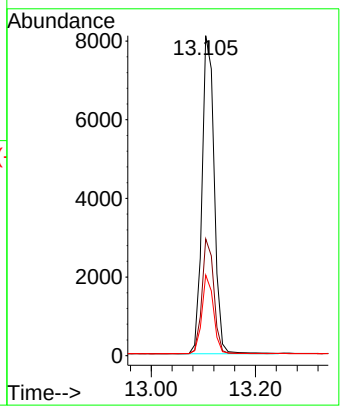


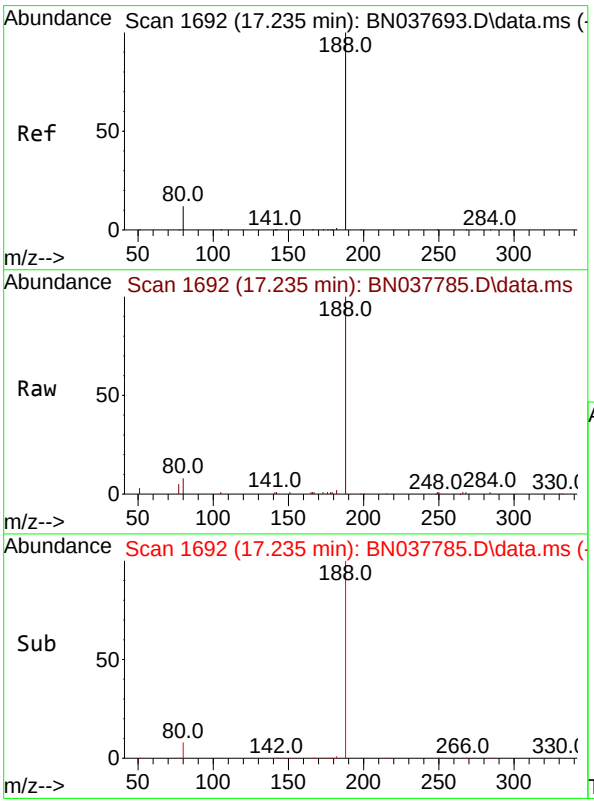

#15
2-Fluorobiphenyl
Concen: 0.345 ng
RT: 13.105 min Scan# 1
Delta R.T. -0.011 min
Lab File: BN037785.D
Acq: 18 Sep 2025 20:02

**Instrument :**
BNA_N
**ClientSampleId :**
RE104D2-20250910

Tgt Ion:172 Resp: 13157

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 172 | 100 | | |
| 171 | 36.5 | 28.6 | 43.0 |
| 170 | 25.2 | 19.8 | 29.8 |

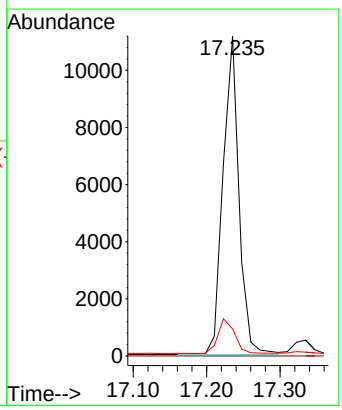


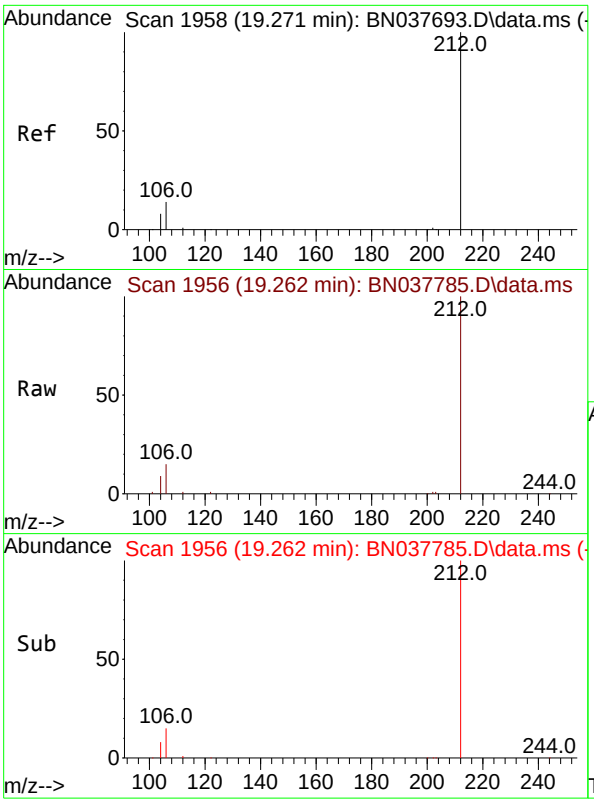




#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.235 min Scan# 1692
Delta R.T. -0.000 min
Lab File: BN037785.D
Acq: 18 Sep 2025 20:02

Tgt Ion:188 Resp: 16768

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 188 | 100 | | |
| 94 | 0.0 | 0.0 | 0.0 |
| 80 | 8.5 | 10.6 | 15.8# |



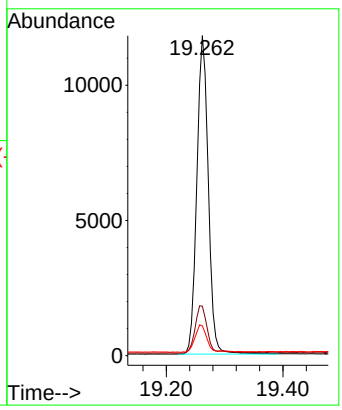


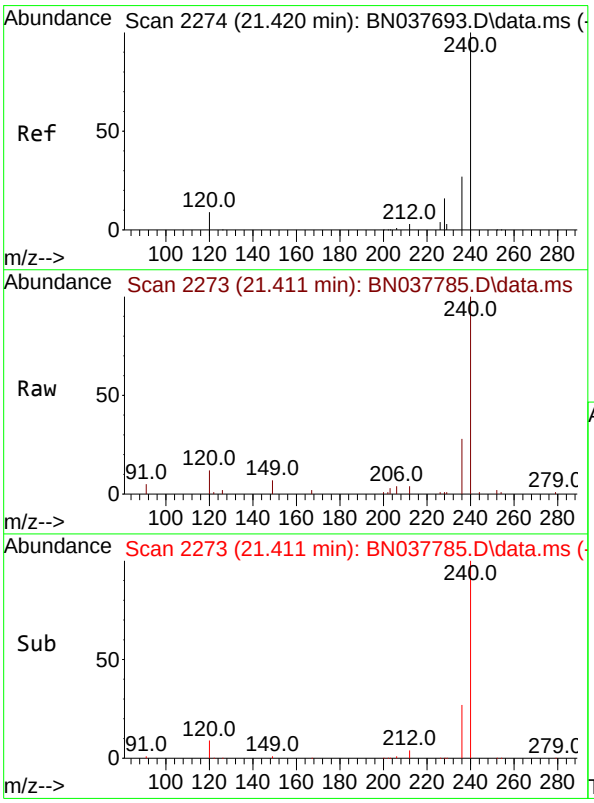

#27
Fluoranthene-d10
Concen: 0.382 ng
RT: 19.262 min Scan# 1
Delta R.T. -0.009 min
Lab File: BN037785.D
Acq: 18 Sep 2025 20:02

**Instrument :**
BNA_N
**ClientSampleId :**
RE104D2-20250910

Tgt Ion:212 Resp: 16067

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 212 | 100 | | |
| 106 | 15.4 | 12.2 | 18.2 |
| 104 | 8.7 | 6.9 | 10.3 |

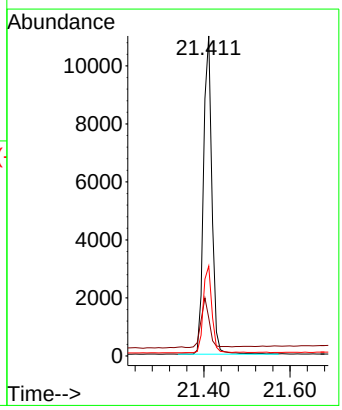


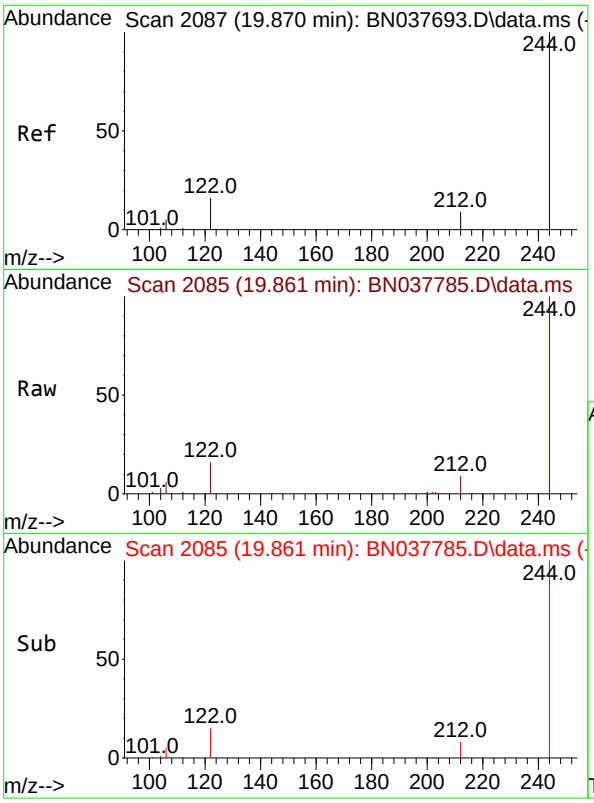




#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.411 min Scan# 2273
Delta R.T. -0.009 min
Lab File: BN037785.D
Acq: 18 Sep 2025 20:02

Tgt Ion:240 Resp: 14951

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 240 | 100 | | |
| 120 | 11.8 | 9.2 | 13.8 |
| 236 | 28.1 | 22.6 | 33.8 |



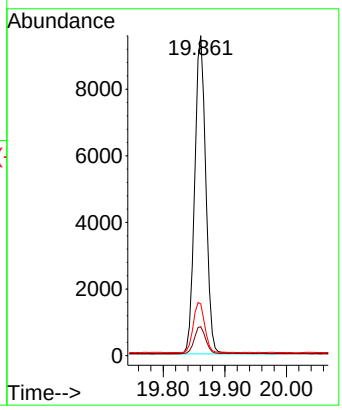


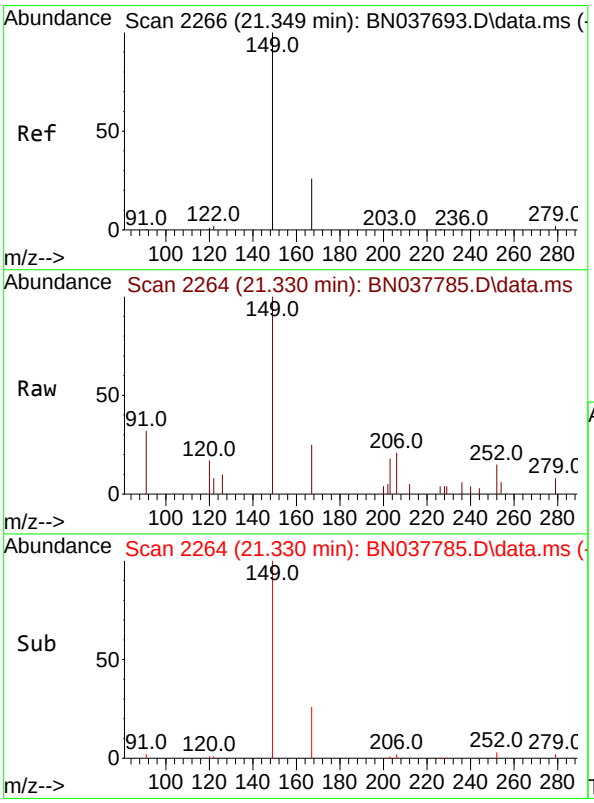

#31
Terphenyl-d14
Concen: 0.397 ng
RT: 19.861 min Scan# 2
Delta R.T. -0.009 min
Lab File: BN037785.D
Acq: 18 Sep 2025 20:02

**Instrument :**
BNA_N
**ClientSampleId :**
RE104D2-20250910

Tgt Ion:244 Resp: 12035

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 244 | 100 | | |
| 212 | 9.1 | 7.5 | 11.3 |
| 122 | 16.2 | 13.2 | 19.8 |

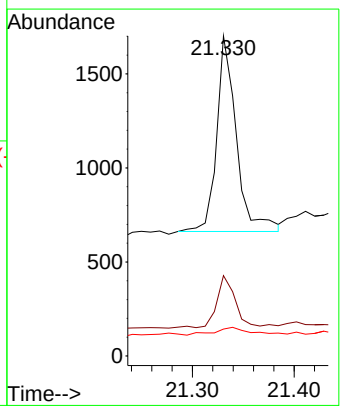


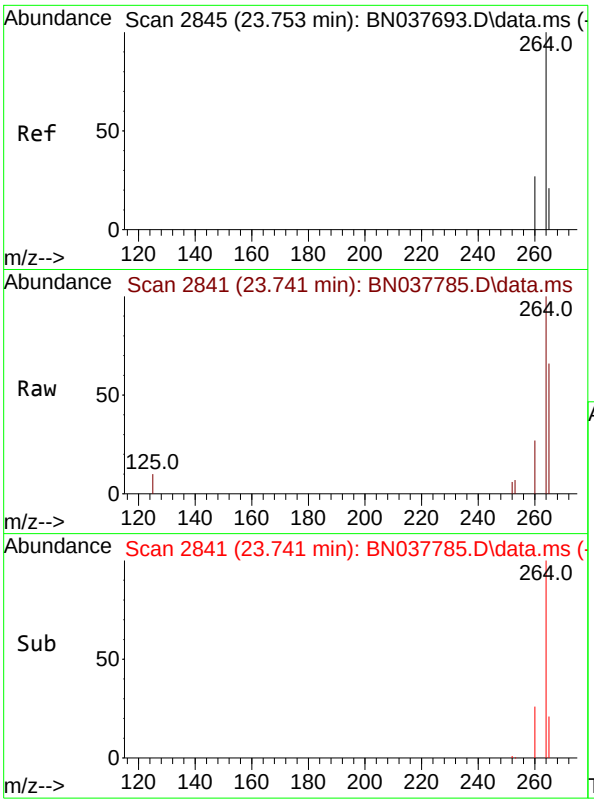




#34
Bis(2-ethylhexyl)phthalate
Concen: 0.090 ng
RT: 21.330 min Scan# 2264
Delta R.T. -0.018 min
Lab File: BN037785.D
Acq: 18 Sep 2025 20:02

Tgt Ion:149 Resp: 1394

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 149 | 100 | | |
| 167 | 23.9 | 20.8 | 31.2 |
| 279 | 7.3 | 3.3 | 4.9# |



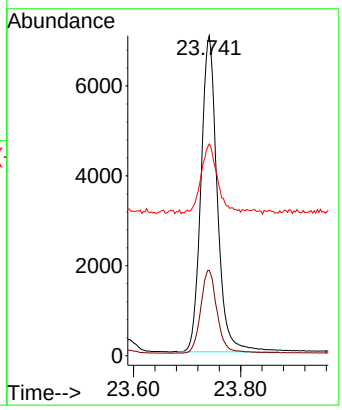



#35
Perylene-d12
Concen: 0.400 ng
RT: 23.741 min Scan# 2
Delta R.T. -0.012 min
Lab File: BN037785.D
Acq: 18 Sep 2025 20:02

**Instrument :**
BNA_N
**ClientSampleId :**
RE104D2-20250910

Tgt Ion:264 Resp: 14804

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 264 | 100 | | |
| 260 | 26.6 | 21.8 | 32.8 |
| 265 | 66.1 | 39.4 | 59.2# |



Raw Data: **BN037786.D**

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

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | AECOM Technical Services, Inc. | Date Collected: | 09/10/25 |
| Project: | NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258 | Date Received: | 09/12/25 |
| Client Sample ID: | MW178I-20250910 | SDG No.: | Q3095 |
| Lab Sample ID: | Q3095-24 | Matrix: | Water |
| Analytical Method: | SW8270ESIM | % Solid: | 0 |
| Sample Wt/Vol: | 1000 Units: mL | Final Vol: | 1000 uL |
| Soil Aliquot Vol: | uL | Test: | SVOC-SIMGroup1 |
| Extraction Type : | Decanted : N | Level : | LOW |
| Injection Volume : | GPC Factor : 1.0 | GPC Cleanup : | N PH : |
| Prep Method : | | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| BN037786.D | 1 | 09/15/25 12:00 | 09/18/25 20:38 | PB169693 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOD | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | | |
| 123-91-1 | 1,4-Dioxane | 0.12 | J | 0.070 | 0.20 | 0.20 | ug/L |
| **SURROGATES** | | | | | | | |
| 7297-45-2 | 2-Methylnaphthalene-d10 | 0.28 | | 30 - 150 | | 69% | SPK: 0.4 |
| 93951-69-0 | Fluoranthene-d10 | 0.33 | | 30 - 150 | | 81% | SPK: 0.4 |
| 4165-60-0 | Nitrobenzene-d5 | 0.31 | | 55 - 111 | | 76% | SPK: 0.4 |
| 321-60-8 | 2-Fluorobiphenyl | 0.31 | | 53 - 106 | | 77% | SPK: 0.4 |
| 1718-51-0 | Terphenyl-d14 | 0.39 | | 58 - 132 | | 97% | SPK: 0.4 |
| **INTERNAL STANDARDS** | | | | | | | |
| 3855-82-1 | 1,4-Dichlorobenzene-d4 | 7910 | 7.833 | | | | |
| 1146-65-2 | Naphthalene-d8 | 21400 | 10.637 | | | | |
| 15067-26-2 | Acenaphthene-d10 | 9550 | 14.484 | | | | |
| 1517-22-2 | Phenanthrene-d10 | 16100 | 17.235 | | | | |
| 1719-03-5 | Chrysene-d12 | 12400 | 21.411 | | | | |
| 1520-96-3 | Perylene-d12 | 12400 | 23.738 | | | | |

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\BN091825\
Data File : BN037786.D
Acq On : 18 Sep 2025 20:38
Operator : RC/JU
Sample : Q3095-24
Misc :
ALS Vial : 12 Sample Multiplier: 1

**Instrument :**
BNA_N
**ClientSampleId :**
MW178I-20250910

Quant Time: Sep 19 04:11:15 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN091125.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Sep 11 14:20:01 2025
Response via : Initial Calibration

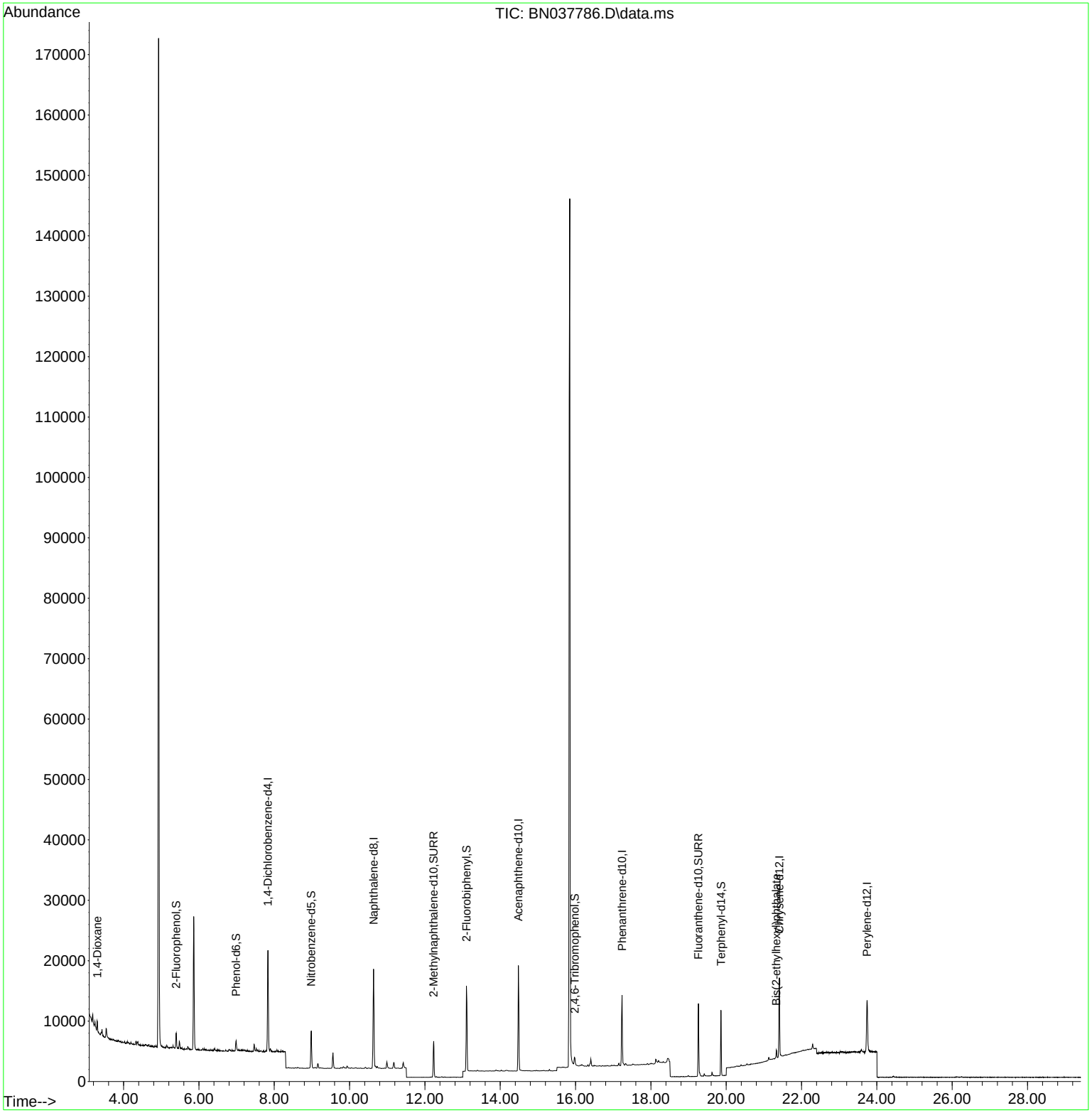
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) 1,4-Dichlorobenzene-d4 | 7.833 | 152 | 7906 | 0.400 | ng | 0.00 |
| 7) Naphthalene-d8 | 10.637 | 136 | 21432 | 0.400 | ng | -0.01 |
| 13) Acenaphthene-d10 | 14.484 | 164 | 9551 | 0.400 | ng | -0.01 |
| 19) Phenanthrene-d10 | 17.235 | 188 | 16120 | 0.400 | ng | # 0.00 |
| 29) Chrysene-d12 | 21.411 | 240 | 12351 | 0.400 | ng | 0.00 |
| 35) Perylene-d12 | 23.738 | 264 | 12408 | 0.400 | ng | #-0.01 |
| System Monitoring Compounds | | | | | | |
| 4) 2-Fluorophenol | 5.399 | 112 | 2081 | 0.115 | ng | 0.00 |
| 5) Phenol-d6 | 6.988 | 99 | 1525 | 0.065 | ng | 0.00 |
| 8) Nitrobenzene-d5 | 8.982 | 82 | 4783 | 0.305 | ng | -0.01 |
| 11) 2-Methylnaphthalene-d10 | 12.232 | 152 | 7810 | 0.275 | ng | -0.01 |
| 14) 2,4,6-Tribromophenol | 15.982 | 330 | 898 | 0.360 | ng | 0.00 |
| 15) 2-Fluorobiphenyl | 13.105 | 172 | 12279 | 0.307 | ng | -0.01 |
| 27) Fluoranthene-d10 | 19.262 | 212 | 13193 | 0.326 | ng | 0.00 |
| 31) Terphenyl-d14 | 19.861 | 244 | 9674 | 0.386 | ng | 0.00 |
| Target Compounds | | | | | | Qvalue |
| 2) 1,4-Dioxane | 3.304 | 88 | 948 | 0.115 | ng | # 69 |
| 34) Bis(2-ethylhexyl)phtha... | 21.330 | 149 | 1447 | 0.113 | ng | # 96 |

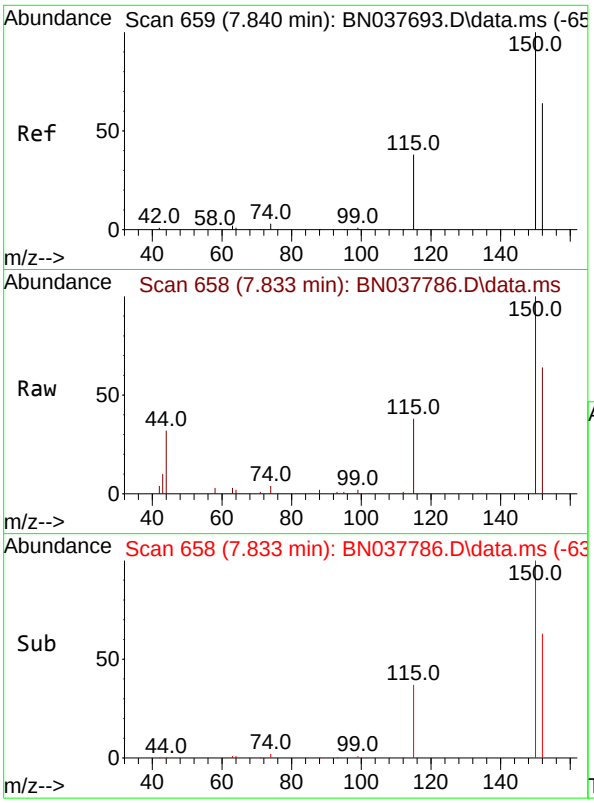
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN091825\
Data File : BN037786.D
Acq On : 18 Sep 2025 20:38
Operator : RC/JU
Sample : Q3095-24
Misc :
ALS Vial : 12 Sample Multiplier: 1

**Instrument :**
BNA_N
**ClientSampleId :**
MW178I-20250910

Quant Time: Sep 19 04:11:15 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN091125.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Sep 11 14:20:01 2025
Response via : Initial Calibration



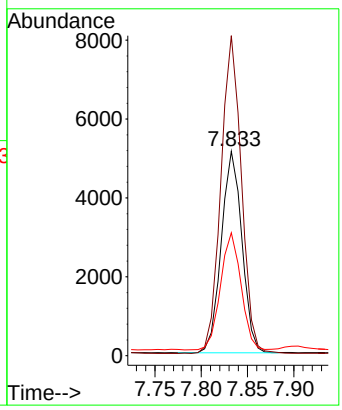


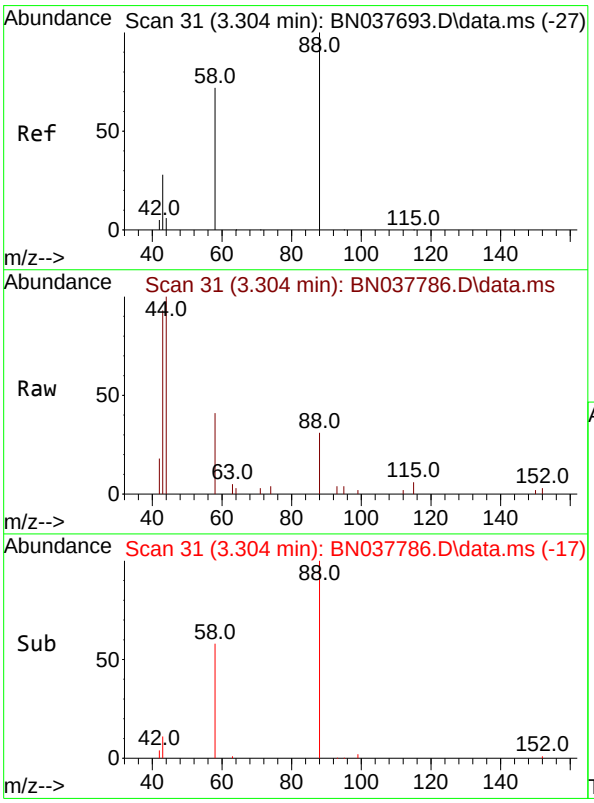

#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.833 min Scan# 6
Delta R.T. -0.007 min
Lab File: BN037786.D
Acq: 18 Sep 2025 20:38

**Instrument :**
BNA_N
**ClientSampleId :**
MW178I-20250910

Tgt Ion:152 Resp: 7906

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 150 | 156.6 | 124.5 | 186.7 |
| 115 | 60.2 | 49.2 | 73.8 |

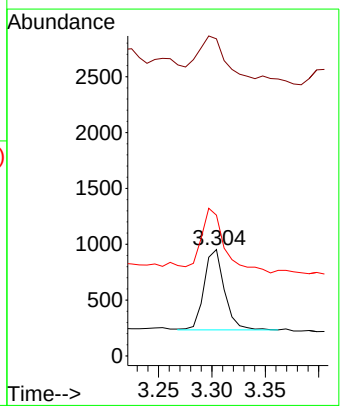


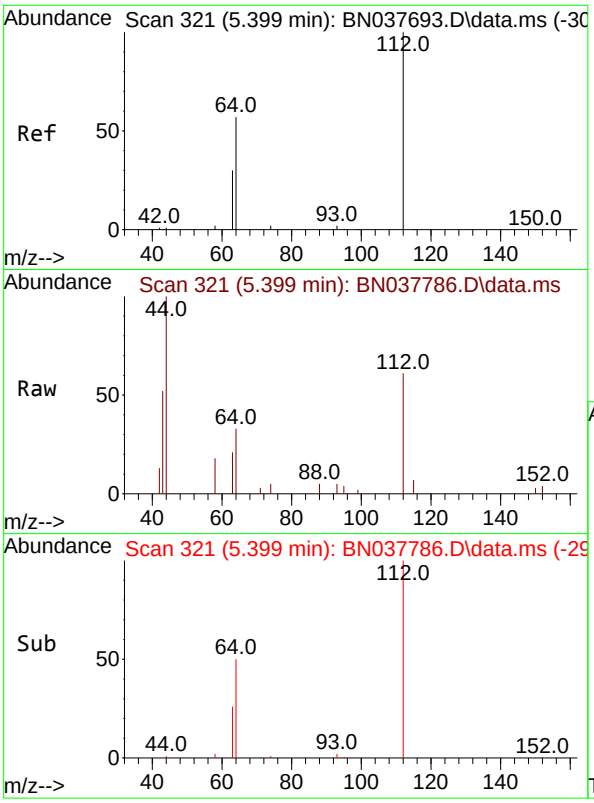




#2
1,4-Dioxane
Concen: 0.115 ng
RT: 3.304 min Scan# 31
Delta R.T. -0.000 min
Lab File: BN037786.D
Acq: 18 Sep 2025 20:38

Tgt Ion: 88 Resp: 948

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 88 | 100 | | |
| 43 | 68.2 | 26.8 | 40.2# |
| 58 | 92.9 | 61.9 | 92.9# |



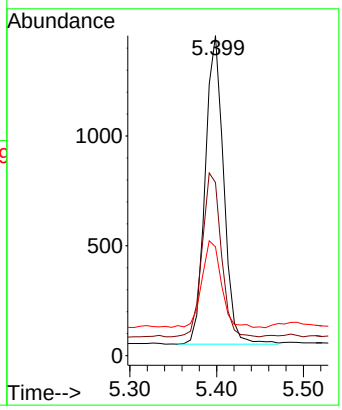


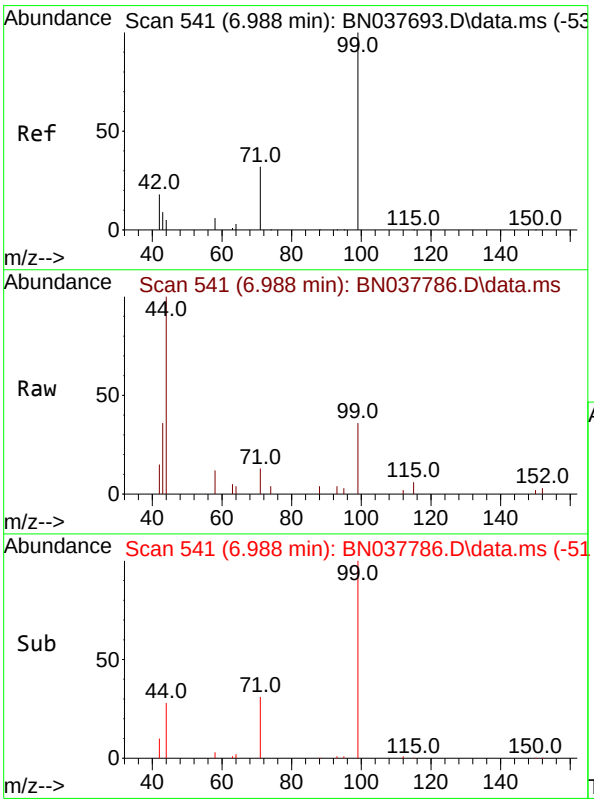

#4
2-Fluorophenol
Concen: 0.115 ng
RT: 5.399 min Scan# 3
Delta R.T. -0.000 min
Lab File: BN037786.D
Acq: 18 Sep 2025 20:38

**Instrument :**
BNA_N
**ClientSampleId :**
MW178I-20250910

Tgt Ion:112 Resp: 2081

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 112 | 100 | | |
| 64 | 54.4 | 44.9 | 67.3 |
| 63 | 29.7 | 24.7 | 37.1 |

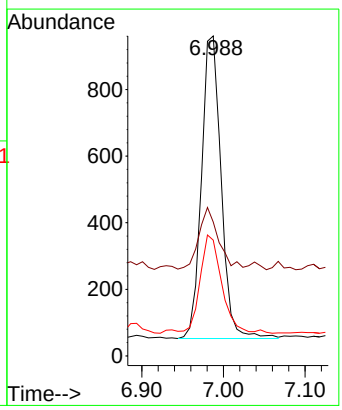


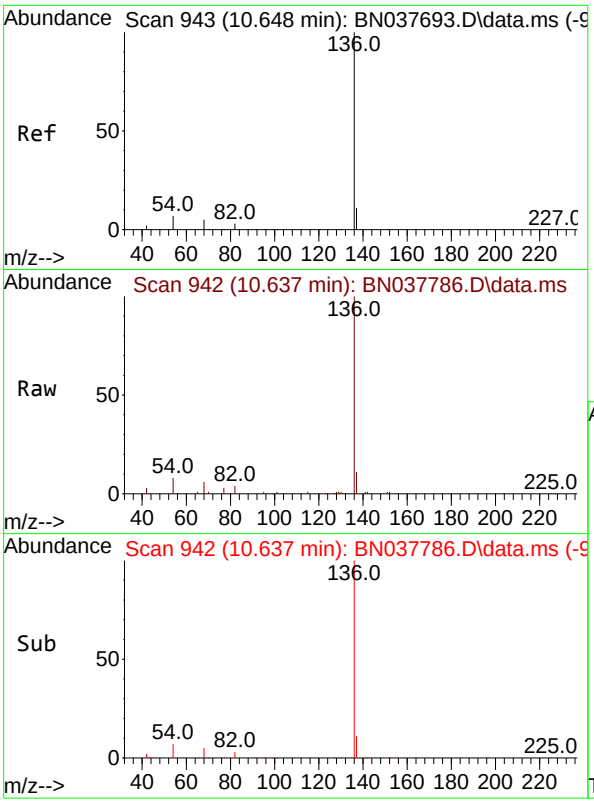




#5
Phenol-d6
Concen: 0.065 ng
RT: 6.988 min Scan# 541
Delta R.T. -0.000 min
Lab File: BN037786.D
Acq: 18 Sep 2025 20:38

Tgt Ion: 99 Resp: 1525

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 99 | 100 | | |
| 42 | 20.5 | 16.6 | 24.8 |
| 71 | 36.1 | 26.7 | 40.1 |



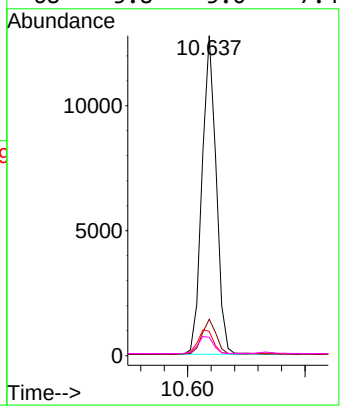


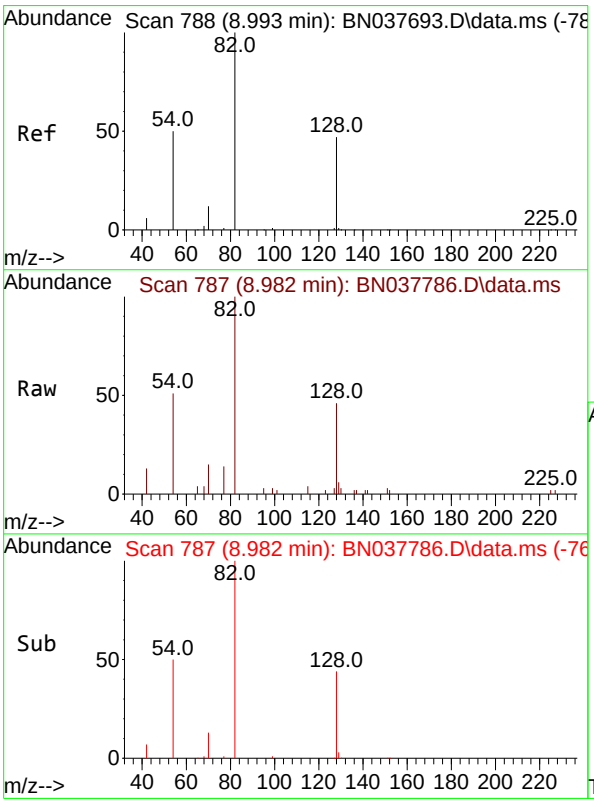

#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.637 min Scan# 94
Delta R.T. -0.011 min
Lab File: BN037786.D
Acq: 18 Sep 2025 20:38

**Instrument :**
BNA_N
**ClientSampleId :**
MW178I-20250910

Tgt Ion:136 Resp: 21432

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 136 | 100 | | |
| 137 | 11.4 | 9.1 | 13.7 |
| 54 | 7.6 | 6.3 | 9.5 |
| 68 | 5.8 | 5.0 | 7.4 |

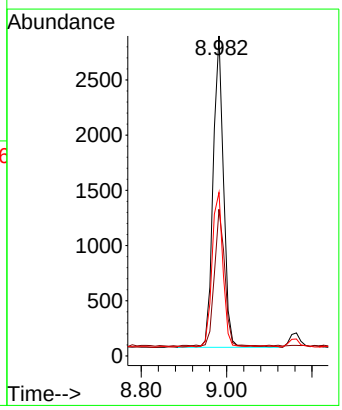


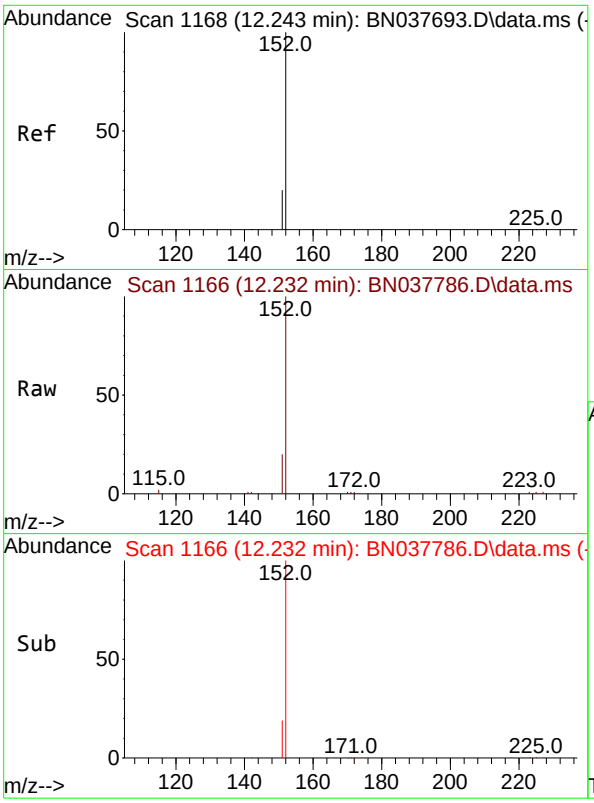




#8
Nitrobenzene-d5
Concen: 0.305 ng
RT: 8.982 min Scan# 787
Delta R.T. -0.011 min
Lab File: BN037786.D
Acq: 18 Sep 2025 20:38

Tgt Ion: 82 Resp: 4783

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 82 | 100 | | |
| 128 | 45.8 | 38.3 | 57.5 |
| 54 | 51.1 | 41.4 | 62.2 |



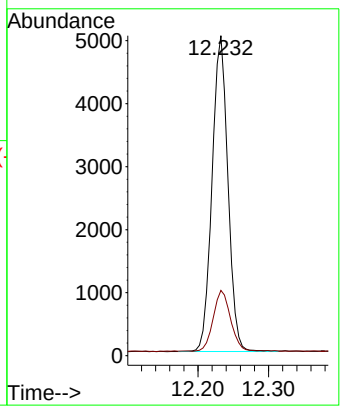


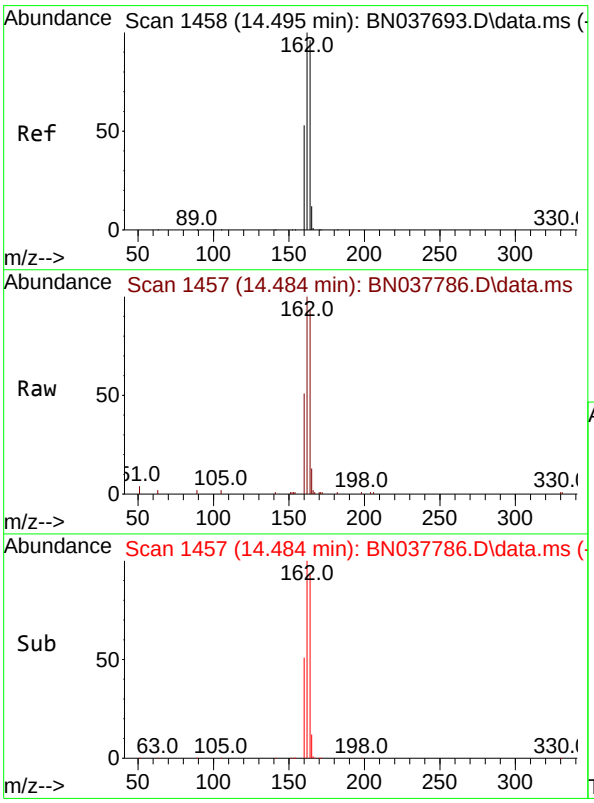

#11
2-Methylnaphthalene-d10
Concen: 0.275 ng
RT: 12.232 min Scan# 11
Delta R.T. -0.010 min
Lab File: BN037786.D
Acq: 18 Sep 2025 20:38

**Instrument :**
BNA_N
**ClientSampleId :**
MW178I-20250910

Tgt Ion:152 Resp: 7810

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 151 | 21.1 | 17.0 | 25.6 |

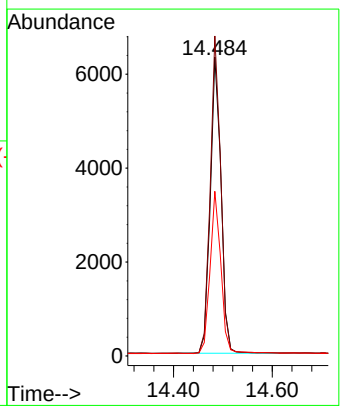


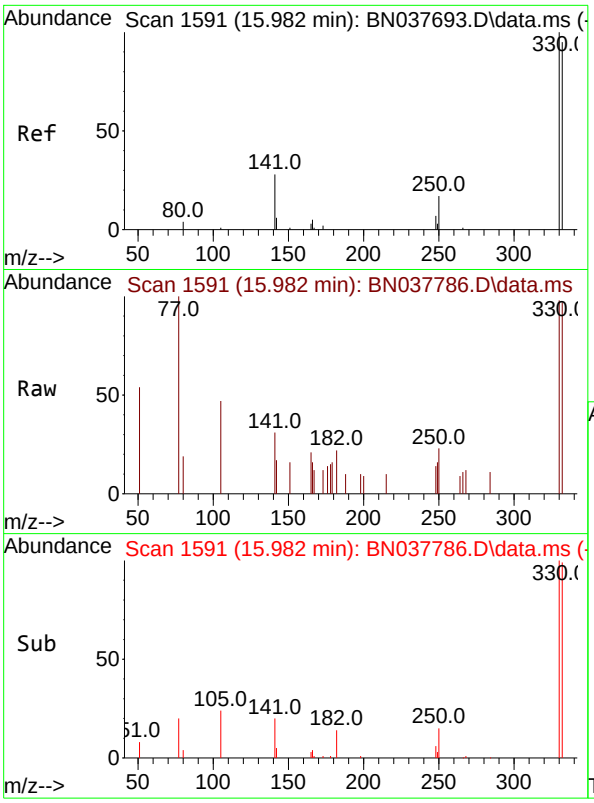




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.484 min Scan# 1457
Delta R.T. -0.011 min
Lab File: BN037786.D
Acq: 18 Sep 2025 20:38

Tgt Ion:164 Resp: 9551

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 164 | 100 | | |
| 162 | 107.1 | 83.1 | 124.7 |
| 160 | 55.1 | 44.3 | 66.5 |



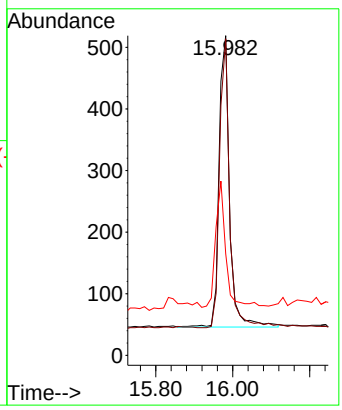


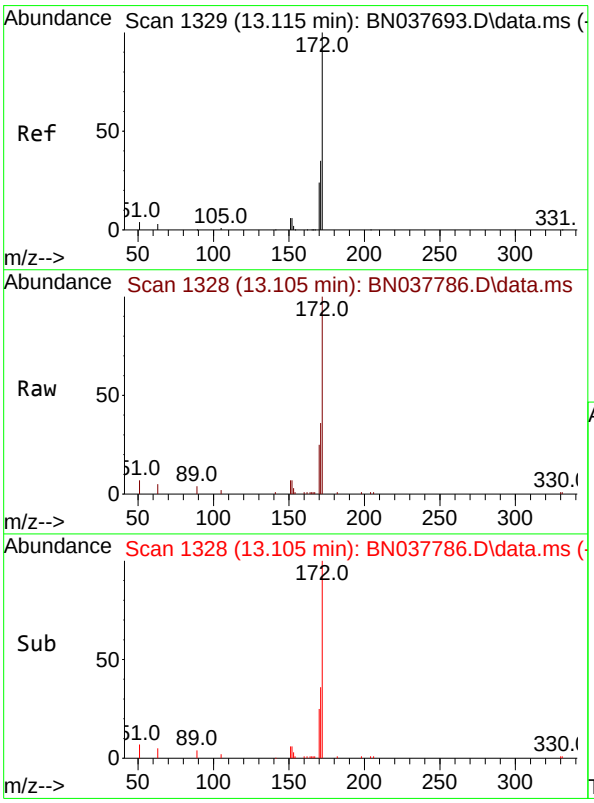

#14
2,4,6-Tribromophenol
Concen: 0.360 ng
RT: 15.982 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN037786.D
Acq: 18 Sep 2025 20:38

**Instrument :**
BNA_N
**ClientSampleId :**
MW178I-20250910

Tgt Ion:330 Resp: 898

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 330 | 100 | | |
| 332 | 94.7 | 75.3 | 112.9 |
| 141 | 42.0 | 35.0 | 52.4 |

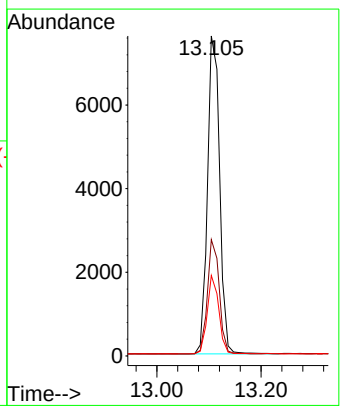


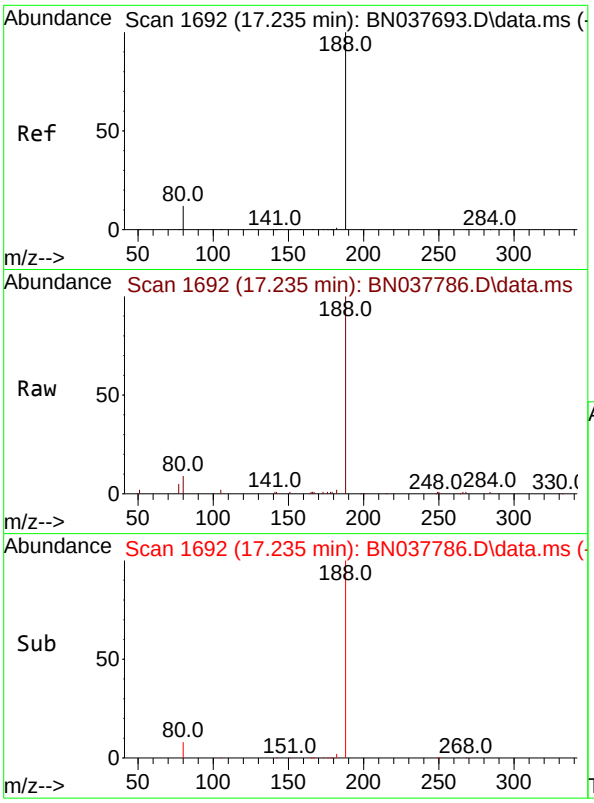




#15
2-Fluorobiphenyl
Concen: 0.307 ng
RT: 13.105 min Scan# 1328
Delta R.T. -0.011 min
Lab File: BN037786.D
Acq: 18 Sep 2025 20:38

Tgt Ion:172 Resp: 12279

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 172 | 100 | | |
| 171 | 36.3 | 28.6 | 43.0 |
| 170 | 25.1 | 19.8 | 29.8 |



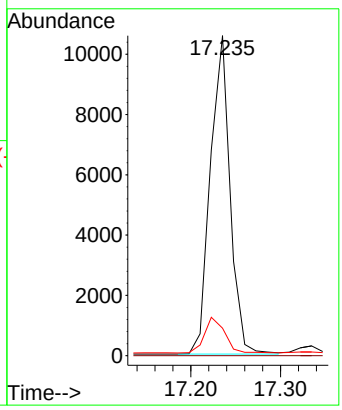


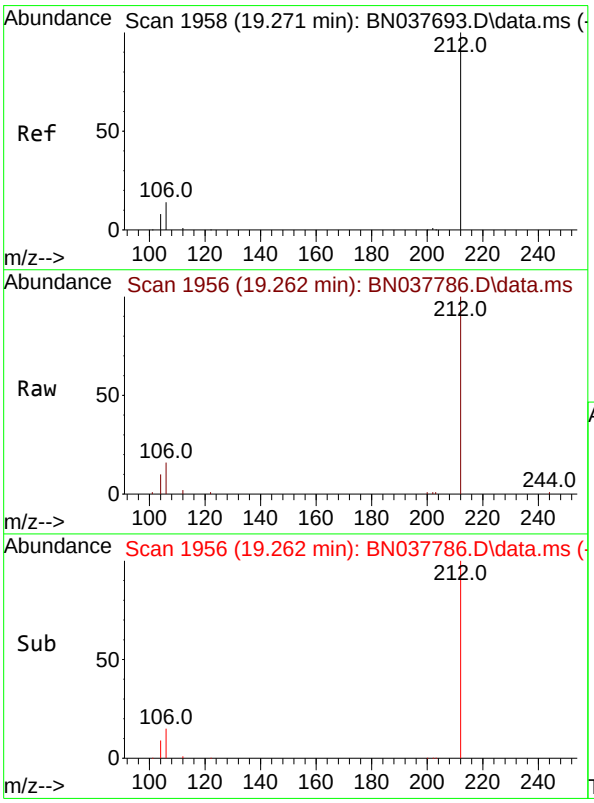

#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.235 min Scan# 1(
Delta R.T. -0.000 min
Lab File: BN037786.D
Acq: 18 Sep 2025 20:38

**Instrument :**
BNA_N
**ClientSampleId :**
MW178I-20250910

Tgt Ion:188 Resp: 16120

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 188 | 100 | | |
| 94 | 0.0 | 0.0 | 0.0 |
| 80 | 8.6 | 10.6 | 15.8# |

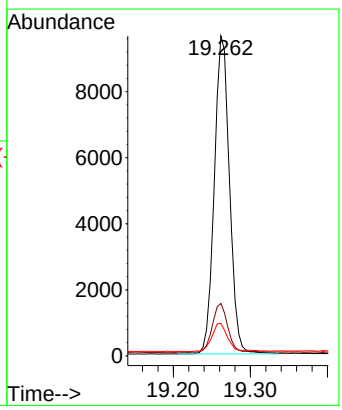


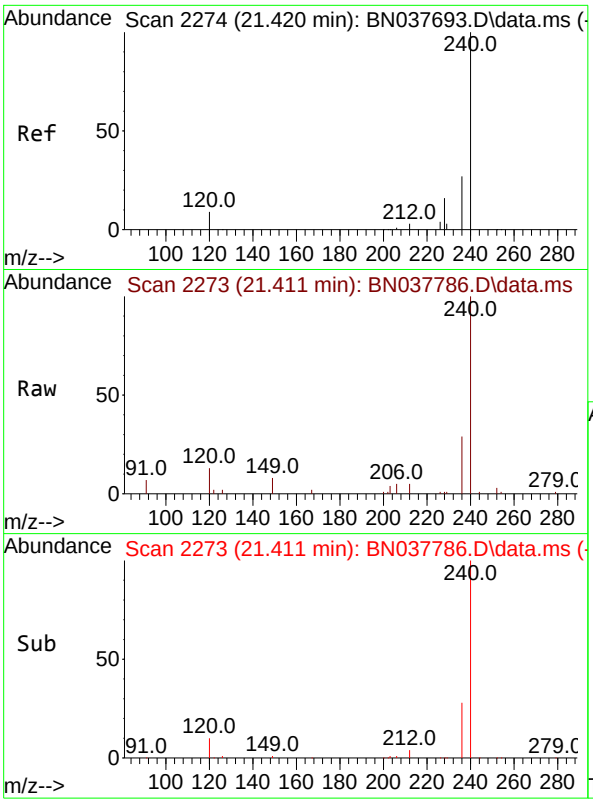




#27
Fluoranthene-d10
Concen: 0.326 ng
RT: 19.262 min Scan# 1956
Delta R.T. -0.010 min
Lab File: BN037786.D
Acq: 18 Sep 2025 20:38

Tgt Ion:212 Resp: 13193

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 212 | 100 | | |
| 106 | 15.9 | 12.2 | 18.2 |
| 104 | 9.1 | 6.9 | 10.3 |



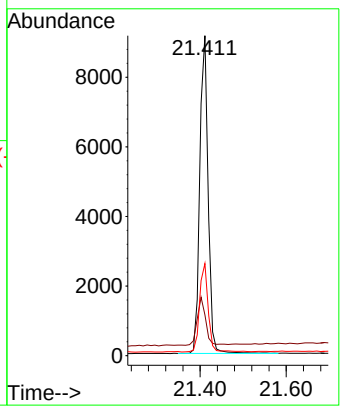


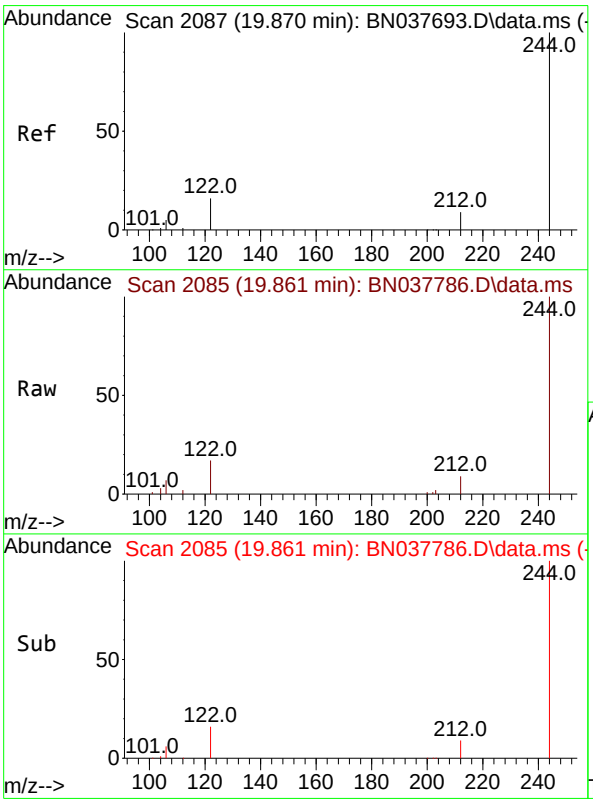

#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.411 min Scan# 2
Delta R.T. -0.009 min
Lab File: BN037786.D
Acq: 18 Sep 2025 20:38

**Instrument :**
BNA_N
**ClientSampleId :**
MW178I-20250910

Tgt Ion:240 Resp: 12351

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 240 | 100 | | |
| 120 | 12.7 | 9.2 | 13.8 |
| 236 | 28.8 | 22.6 | 33.8 |

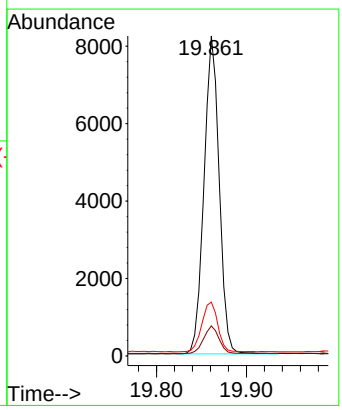


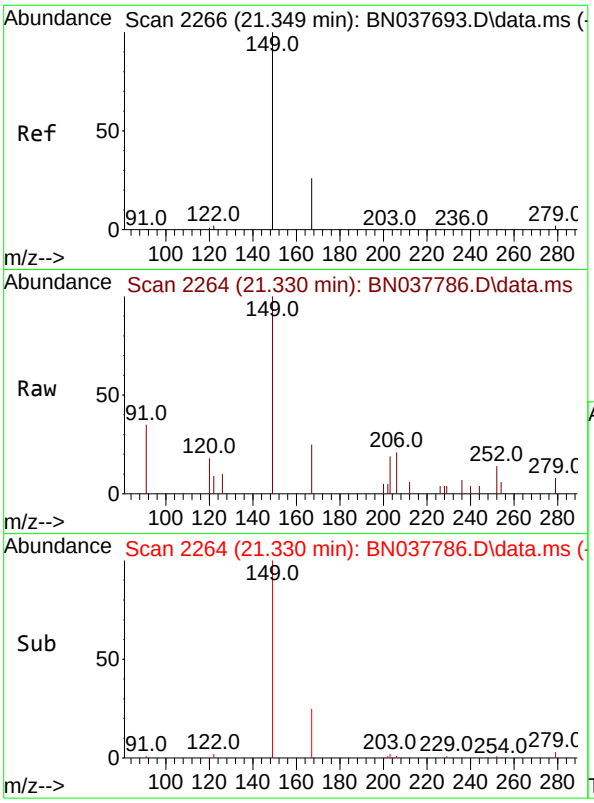




#31
Terphenyl-d14
Concen: 0.386 ng
RT: 19.861 min Scan# 2085
Delta R.T. -0.010 min
Lab File: BN037786.D
Acq: 18 Sep 2025 20:38

Tgt Ion:244 Resp: 9674

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 244 | 100 | | |
| 212 | 9.4 | 7.5 | 11.3 |
| 122 | 16.8 | 13.2 | 19.8 |



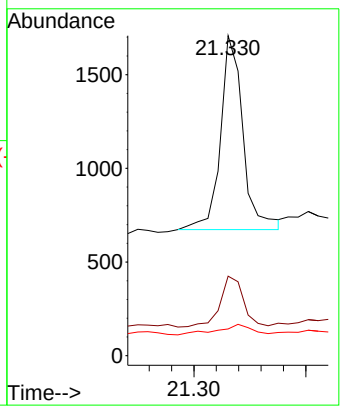


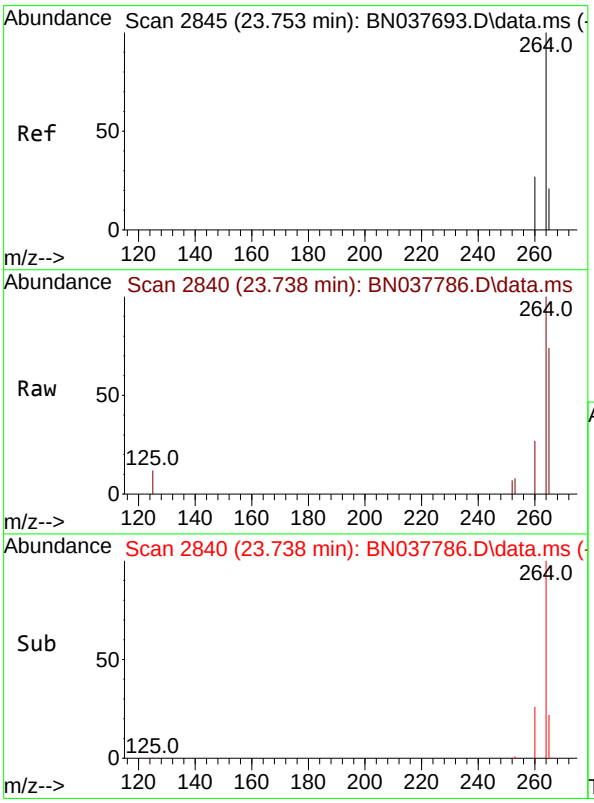

#34
Bis(2-ethylhexyl)phthalate
Concen: 0.113 ng
RT: 21.330 min Scan# 2
Delta R.T. -0.018 min
Lab File: BN037786.D
Acq: 18 Sep 2025 20:38

**Instrument :**
BNA_N
**ClientSampleId :**
MW178I-20250910

Tgt Ion:149 Resp: 1447

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 149 | 100 | | |
| 167 | 27.2 | 20.8 | 31.2 |
| 279 | 8.2 | 3.3 | 4.9# |

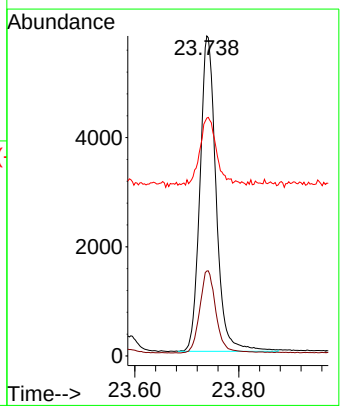



#35
Perylene-d12
Concen: 0.400 ng
RT: 23.738 min Scan# 2840
Delta R.T. -0.015 min
Lab File: BN037786.D
Acq: 18 Sep 2025 20:38

Tgt Ion:264 Resp: 12408

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 264 | 100 | | |
| 260 | 26.5 | 21.8 | 32.8 |
| 265 | 74.3 | 39.4 | 59.2# |



Raw Data: **BN037787.D**

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

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | AECOM Technical Services, Inc. | Date Collected: | 09/10/25 |
| Project: | NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258 | Date Received: | 09/12/25 |
| Client Sample ID: | DUP02-20250910 | SDG No.: | Q3095 |
| Lab Sample ID: | Q3095-25 | Matrix: | Water |
| Analytical Method: | SW8270ESIM | % Solid: | 0 |
| Sample Wt/Vol: | 970 Units: mL | Final Vol: | 1000 uL |
| Soil Aliquot Vol: | uL | Test: | SVOC-SIMGroup1 |
| Extraction Type : | Decanted : N | Level : | LOW |
| Injection Volume : | GPC Factor : 1.0 | GPC Cleanup : | N PH : |
| Prep Method : | | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| BN037787.D | 1 | 09/15/25 12:00 | 09/18/25 21:14 | PB169693 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOD | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | | |
| 123-91-1 | 1,4-Dioxane | 3.40 | | 0.070 | 0.21 | 0.21 | ug/L |
| **SURROGATES** | | | | | | | |
| 7297-45-2 | 2-Methylnaphthalene-d10 | 0.30 | | 30 - 150 | | 75% | SPK: 0.4 |
| 93951-69-0 | Fluoranthene-d10 | 0.34 | | 30 - 150 | | 84% | SPK: 0.4 |
| 4165-60-0 | Nitrobenzene-d5 | 0.33 | | 55 - 111 | | 83% | SPK: 0.4 |
| 321-60-8 | 2-Fluorobiphenyl | 0.33 | | 53 - 106 | | 83% | SPK: 0.4 |
| 1718-51-0 | Terphenyl-d14 | 0.43 | | 58 - 132 | | 108% | SPK: 0.4 |
| **INTERNAL STANDARDS** | | | | | | | |
| 3855-82-1 | 1,4-Dichlorobenzene-d4 | 8070 | 7.833 | | | | |
| 1146-65-2 | Naphthalene-d8 | 22000 | 10.637 | | | | |
| 15067-26-2 | Acenaphthene-d10 | 10100 | 14.484 | | | | |
| 1517-22-2 | Phenanthrene-d10 | 17200 | 17.235 | | | | |
| 1719-03-5 | Chrysene-d12 | 12300 | 21.411 | | | | |
| 1520-96-3 | Perylene-d12 | 12000 | 23.738 | | | | |

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\BN091825\
Data File : BN037787.D
Acq On : 18 Sep 2025 21:14
Operator : RC/JU
Sample : Q3095-25
Misc :
ALS Vial : 13 Sample Multiplier: 1

**Instrument :**
BNA_N
**ClientSampleId :**
DUP02-20250910

Quant Time: Sep 19 04:11:30 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN091125.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Sep 11 14:20:01 2025
Response via : Initial Calibration

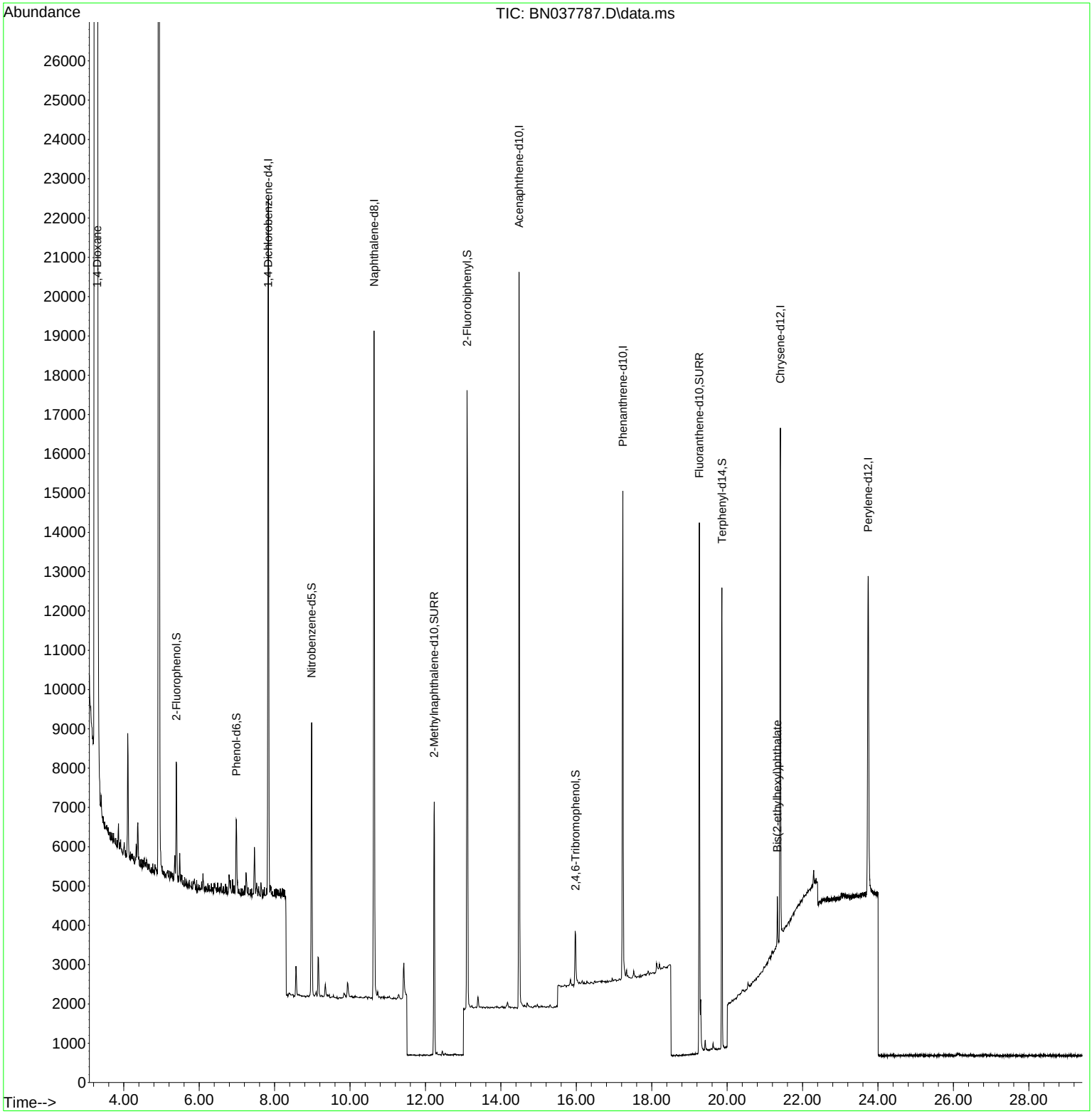
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) 1,4-Dichlorobenzene-d4 | 7.833 | 152 | 8067 | 0.400 | ng | 0.00 |
| 7) Naphthalene-d8 | 10.637 | 136 | 22034 | 0.400 | ng | -0.01 |
| 13) Acenaphthene-d10 | 14.484 | 164 | 10108 | 0.400 | ng | -0.01 |
| 19) Phenanthrene-d10 | 17.235 | 188 | 17248 | 0.400 | ng | # 0.00 |
| 29) Chrysene-d12 | 21.411 | 240 | 12319 | 0.400 | ng | 0.00 |
| 35) Perylene-d12 | 23.738 | 264 | 12006 | 0.400 | ng | #-0.01 |
| System Monitoring Compounds | | | | | | |
| 4) 2-Fluorophenol | 5.399 | 112 | 2470 | 0.133 | ng | 0.00 |
| 5) Phenol-d6 | 6.988 | 99 | 1800 | 0.075 | ng | 0.00 |
| 8) Nitrobenzene-d5 | 8.982 | 82 | 5355 | 0.332 | ng | -0.01 |
| 11) 2-Methylnaphthalene-d10 | 12.232 | 152 | 8807 | 0.302 | ng | -0.01 |
| 14) 2,4,6-Tribromophenol | 15.982 | 330 | 970 | 0.368 | ng | 0.00 |
| 15) 2-Fluorobiphenyl | 13.105 | 172 | 14047 | 0.332 | ng | -0.01 |
| 27) Fluoranthene-d10 | 19.262 | 212 | 14644 | 0.338 | ng | 0.00 |
| 31) Terphenyl-d14 | 19.861 | 244 | 10800 | 0.432 | ng | 0.00 |
| Target Compounds | | | | | | Qvalue |
| 2) 1,4-Dioxane | 3.297 | 88 | 27660 | 3.292 | ng | 95 |
| 34) Bis(2-ethylhexyl)phtha... | 21.331 | 149 | 1286 | 0.101 | ng | 97 |

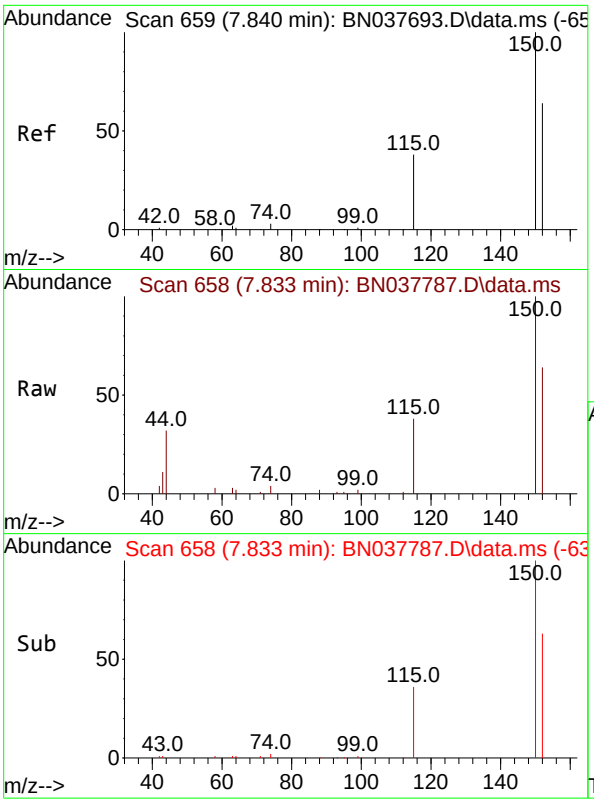
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN091825\
Data File : BN037787.D
Acq On : 18 Sep 2025 21:14
Operator : RC/JU
Sample : Q3095-25
Misc :
ALS Vial : 13 Sample Multiplier: 1

**Instrument :**
BNA_N
**ClientSampleId :**
DUP02-20250910

Quant Time: Sep 19 04:11:30 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN091125.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Sep 11 14:20:01 2025
Response via : Initial Calibration



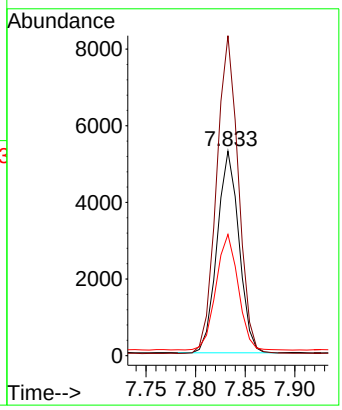


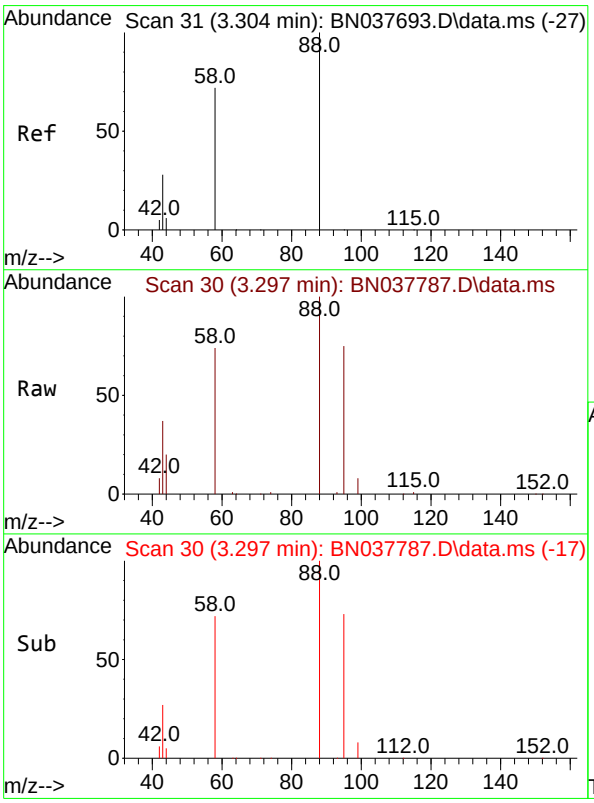

#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.833 min Scan# 6
Delta R.T. -0.007 min
Lab File: BN037787.D
Acq: 18 Sep 2025 21:14

**Instrument :**
BNA_N
**ClientSampleId :**
DUP02-20250910

Tgt Ion:152 Resp: 8067

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 150 | 156.5 | 124.5 | 186.7 |
| 115 | 59.3 | 49.2 | 73.8 |

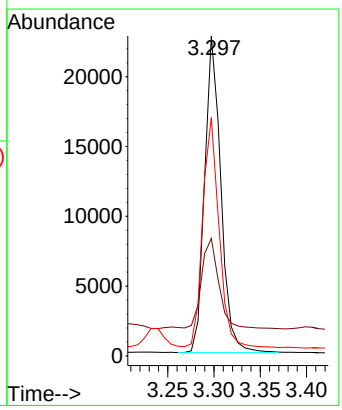


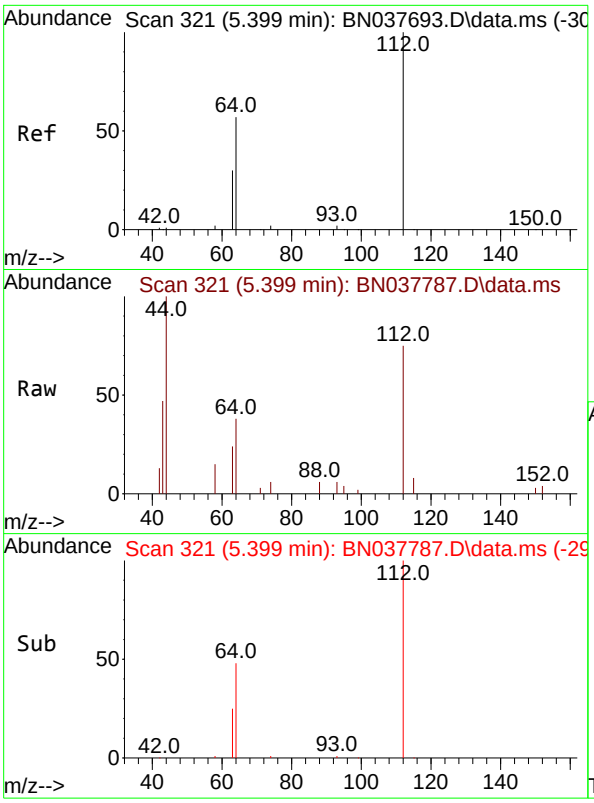




#2
1,4-Dioxane
Concen: 3.292 ng
RT: 3.297 min Scan# 30
Delta R.T. -0.007 min
Lab File: BN037787.D
Acq: 18 Sep 2025 21:14

Tgt Ion: 88 Resp: 27660

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 88 | 100 | | |
| 43 | 30.8 | 26.8 | 40.2 |
| 58 | 72.9 | 61.9 | 92.9 |



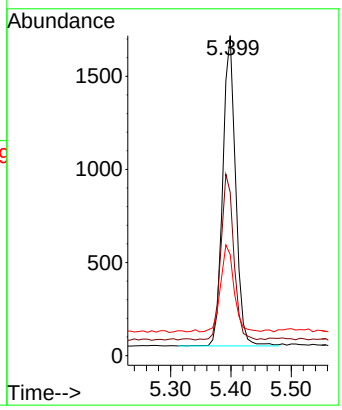


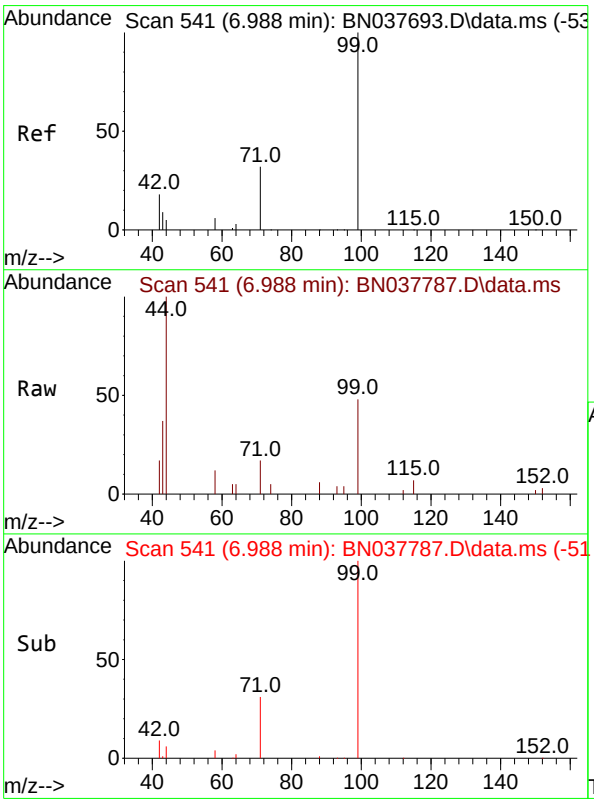

#4
2-Fluorophenol
Concen: 0.133 ng
RT: 5.399 min Scan# 3
Delta R.T. -0.000 min
Lab File: BN037787.D
Acq: 18 Sep 2025 21:14

**Instrument :**
BNA_N
**ClientSampleId :**
DUP02-20250910

Tgt Ion:112 Resp: 2470

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 112 | 100 | | |
| 64 | 53.9 | 44.9 | 67.3 |
| 63 | 29.0 | 24.7 | 37.1 |

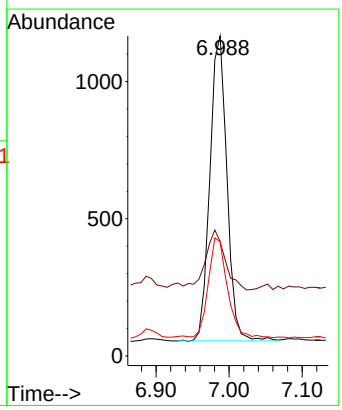


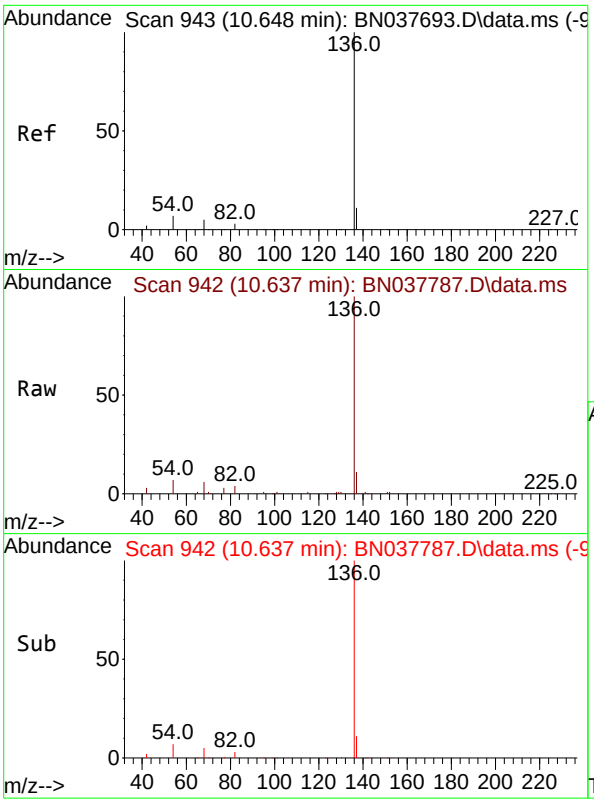




#5
Phenol-d6
Concen: 0.075 ng
RT: 6.988 min Scan# 541
Delta R.T. -0.000 min
Lab File: BN037787.D
Acq: 18 Sep 2025 21:14

Tgt Ion: 99 Resp: 1800

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 99 | 100 | | |
| 42 | 22.3 | 16.6 | 24.8 |
| 71 | 37.0 | 26.7 | 40.1 |



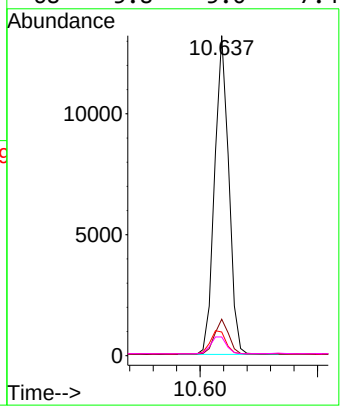


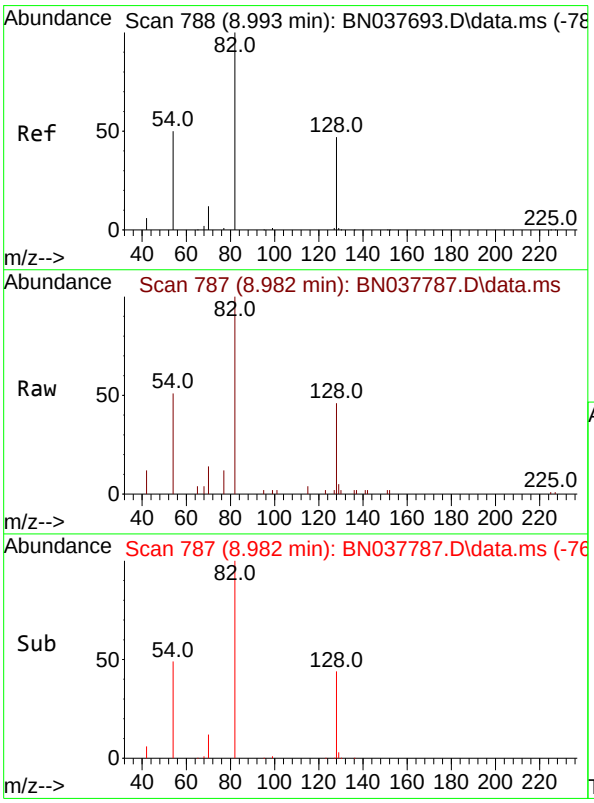

#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.637 min Scan# 94
Delta R.T. -0.011 min
Lab File: BN037787.D
Acq: 18 Sep 2025 21:14

**Instrument :**
BNA_N
**ClientSampleId :**
DUP02-20250910

Tgt Ion:136 Resp: 22034

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 136 | 100 | | |
| 137 | 11.4 | 9.1 | 13.7 |
| 54 | 7.4 | 6.3 | 9.5 |
| 68 | 5.8 | 5.0 | 7.4 |

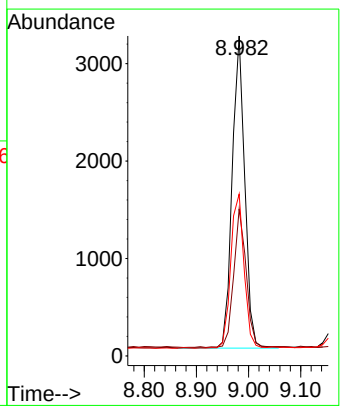


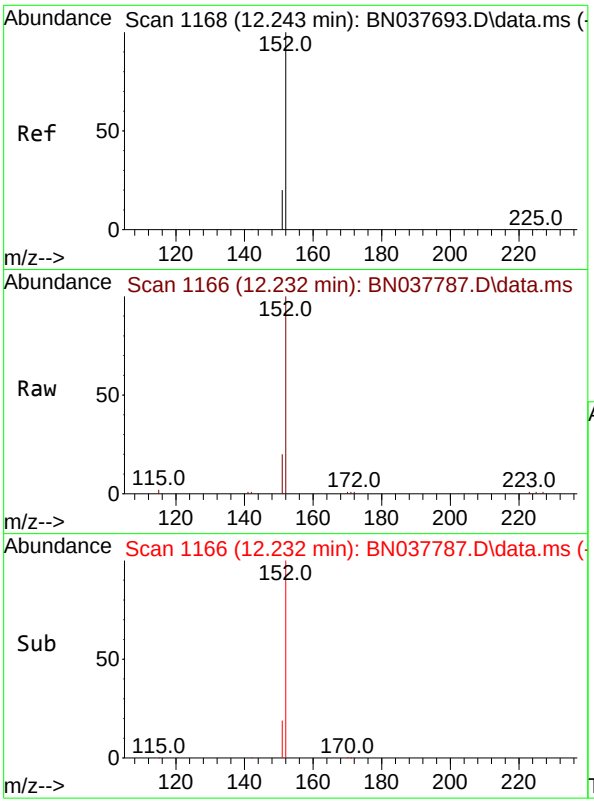




#8
Nitrobenzene-d5
Concen: 0.332 ng
RT: 8.982 min Scan# 787
Delta R.T. -0.011 min
Lab File: BN037787.D
Acq: 18 Sep 2025 21:14

Tgt Ion: 82 Resp: 5355

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 82 | 100 | | |
| 128 | 45.9 | 38.3 | 57.5 |
| 54 | 50.6 | 41.4 | 62.2 |



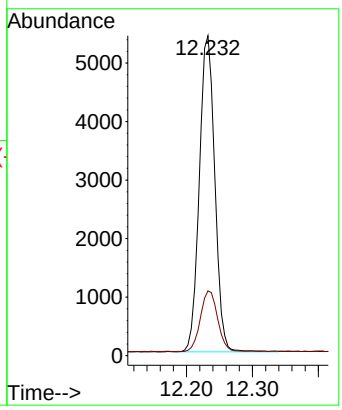


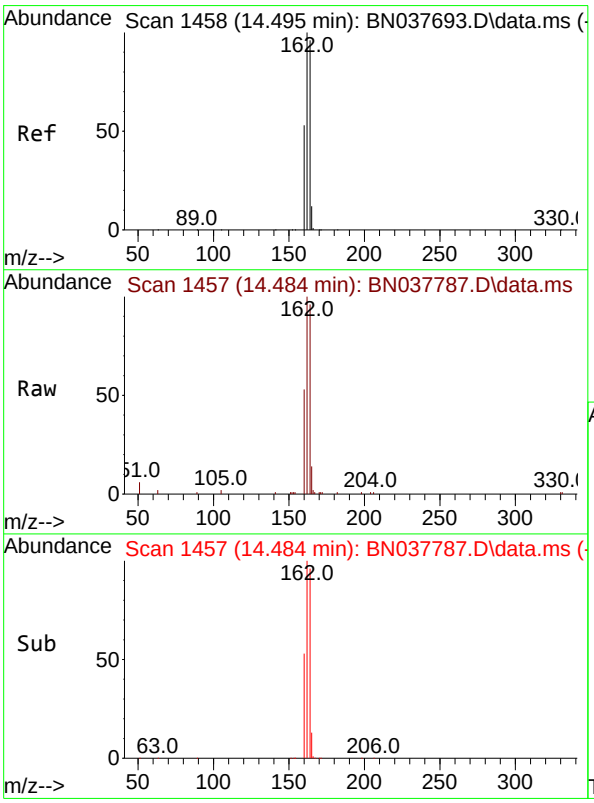

#11
2-Methylnaphthalene-d10
Concen: 0.302 ng
RT: 12.232 min Scan# 11
Delta R.T. -0.010 min
Lab File: BN037787.D
Acq: 18 Sep 2025 21:14

**Instrument :**
BNA_N
**ClientSampleId :**
DUP02-20250910

Tgt Ion:152 Resp: 8807

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

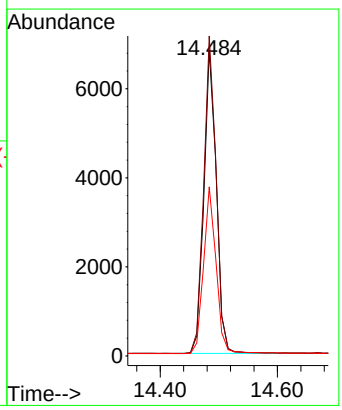


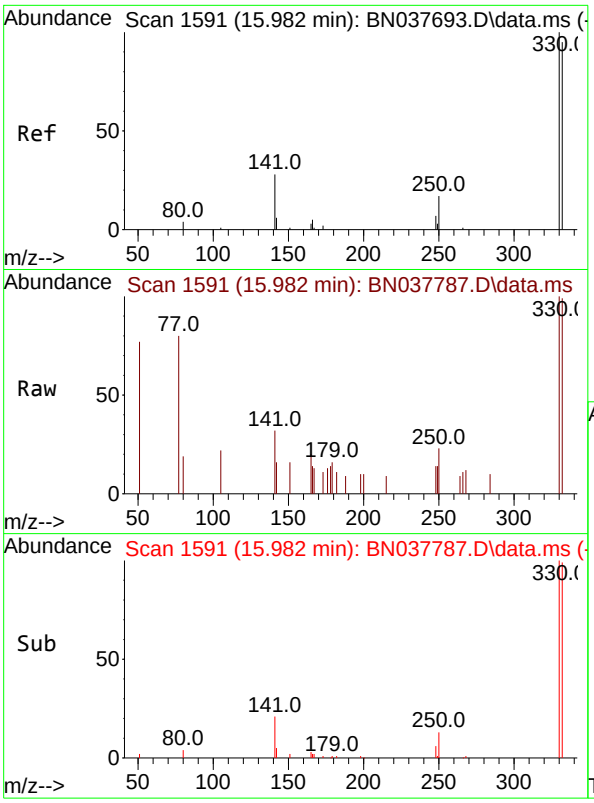




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.484 min Scan# 1457
Delta R.T. -0.011 min
Lab File: BN037787.D
Acq: 18 Sep 2025 21:14

Tgt Ion:164 Resp: 10108

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 164 | 100 | | |
| 162 | 104.5 | 83.1 | 124.7 |
| 160 | 55.2 | 44.3 | 66.5 |



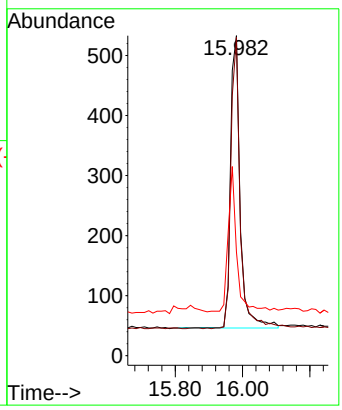


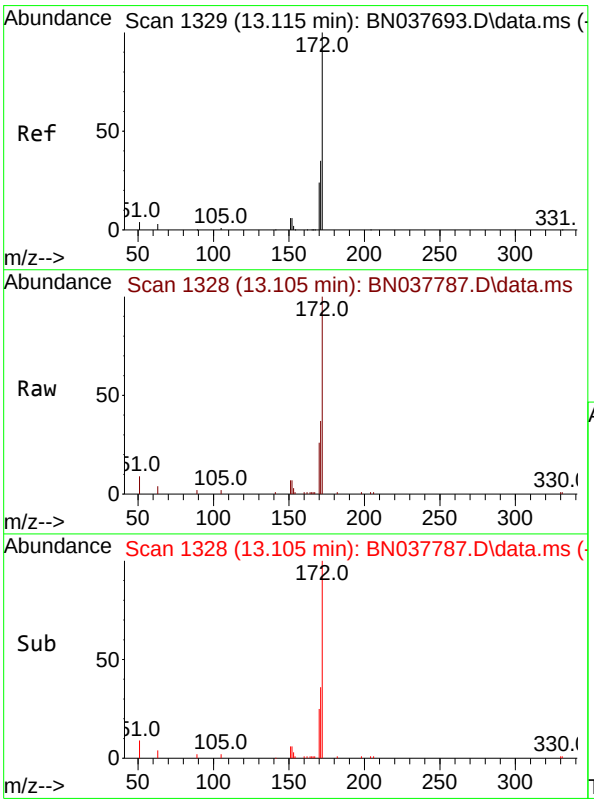

#14
2,4,6-Tribromophenol
Concen: 0.368 ng
RT: 15.982 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN037787.D
Acq: 18 Sep 2025 21:14

**Instrument :**
BNA_N
**ClientSampleId :**
DUP02-20250910

Tgt Ion:330 Resp: 970

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 330 | 100 | | |
| 332 | 95.9 | 75.3 | 112.9 |
| 141 | 43.1 | 35.0 | 52.4 |

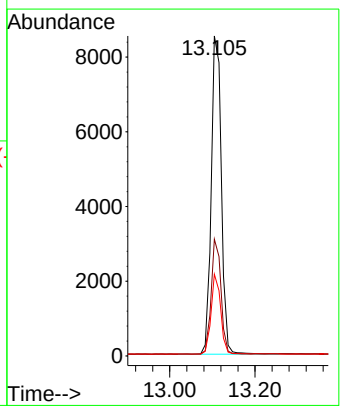


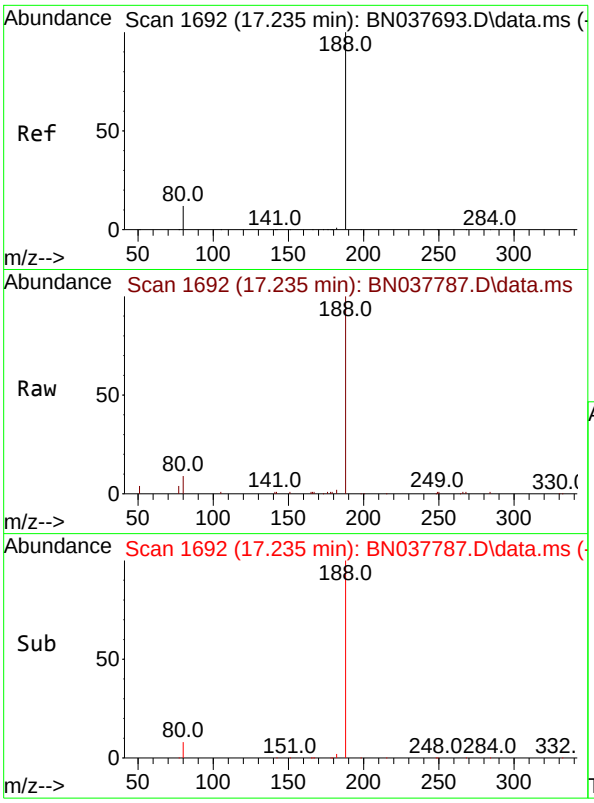




#15
2-Fluorobiphenyl
Concen: 0.332 ng
RT: 13.105 min Scan# 1328
Delta R.T. -0.011 min
Lab File: BN037787.D
Acq: 18 Sep 2025 21:14

Tgt Ion:172 Resp: 14047

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 172 | 100 | | |
| 171 | 36.5 | 28.6 | 43.0 |
| 170 | 25.6 | 19.8 | 29.8 |



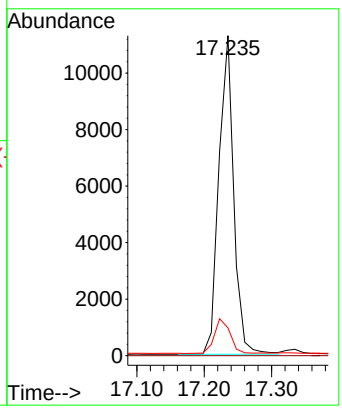


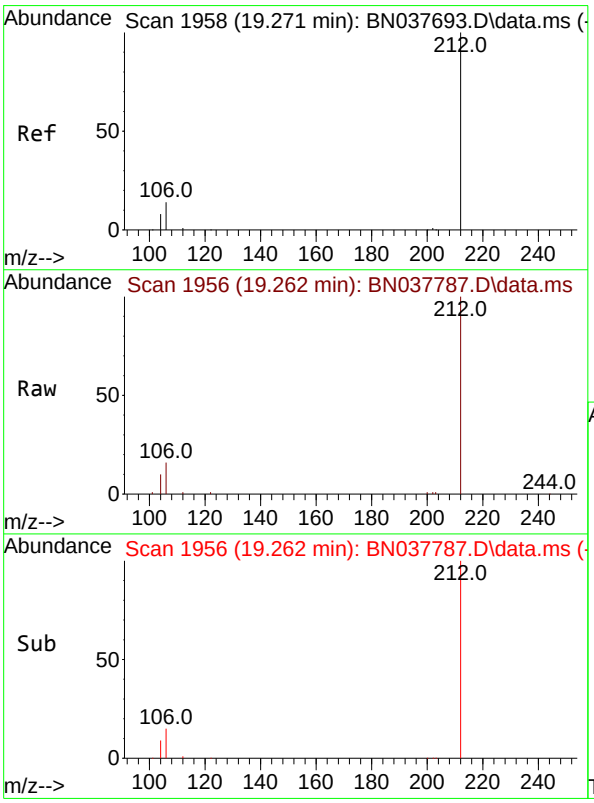

#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.235 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN037787.D
Acq: 18 Sep 2025 21:14

**Instrument :**
BNA_N
**ClientSampleId :**
DUP02-20250910

Tgt Ion:188 Resp: 17248

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 188 | 100 | | |
| 94 | 0.0 | 0.0 | 0.0 |
| 80 | 8.7 | 10.6 | 15.8# |

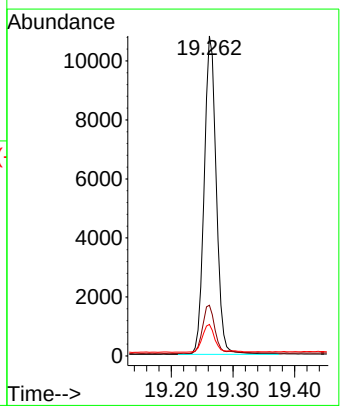


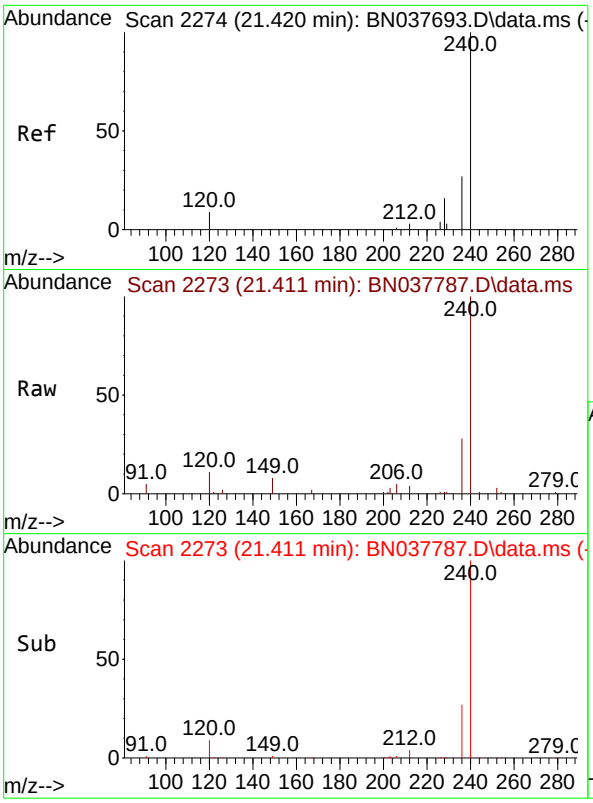




#27
Fluoranthene-d10
Concen: 0.338 ng
RT: 19.262 min Scan# 1956
Delta R.T. -0.009 min
Lab File: BN037787.D
Acq: 18 Sep 2025 21:14

Tgt Ion:212 Resp: 14644

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 212 | 100 | | |
| 106 | 15.9 | 12.2 | 18.2 |
| 104 | 9.1 | 6.9 | 10.3 |



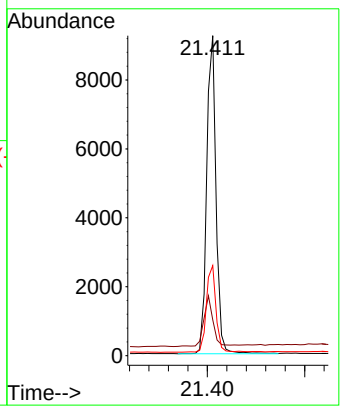


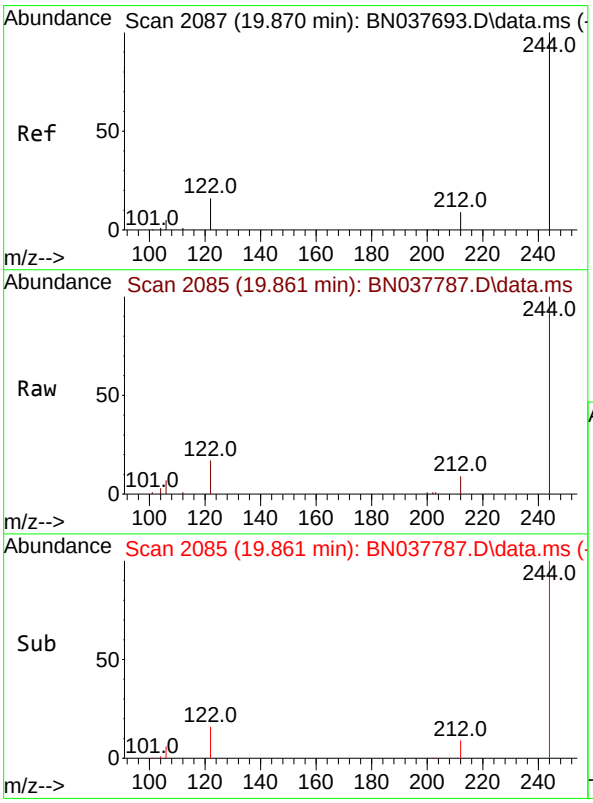

#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.411 min Scan# 21
Delta R.T. -0.009 min
Lab File: BN037787.D
Acq: 18 Sep 2025 21:14

**Instrument :**
BNA_N
**ClientSampleId :**
DUP02-20250910

Tgt Ion:240 Resp: 12319

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 240 | 100 | | |
| 120 | 11.2 | 9.2 | 13.8 |
| 236 | 28.1 | 22.6 | 33.8 |

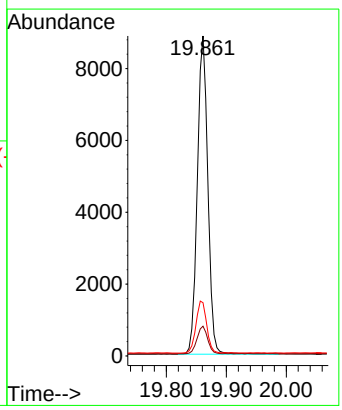


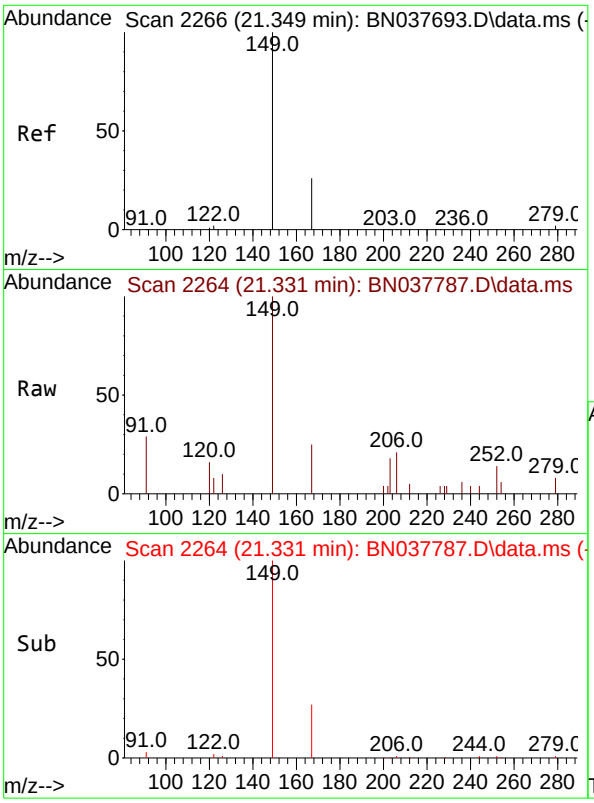




#31
Terphenyl-d14
Concen: 0.432 ng
RT: 19.861 min Scan# 2085
Delta R.T. -0.009 min
Lab File: BN037787.D
Acq: 18 Sep 2025 21:14

Tgt Ion:244 Resp: 10800

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 244 | 100 | | |
| 212 | 9.3 | 7.5 | 11.3 |
| 122 | 16.7 | 13.2 | 19.8 |



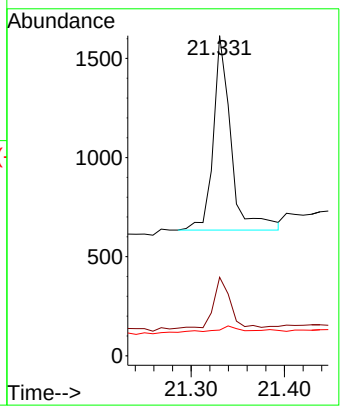


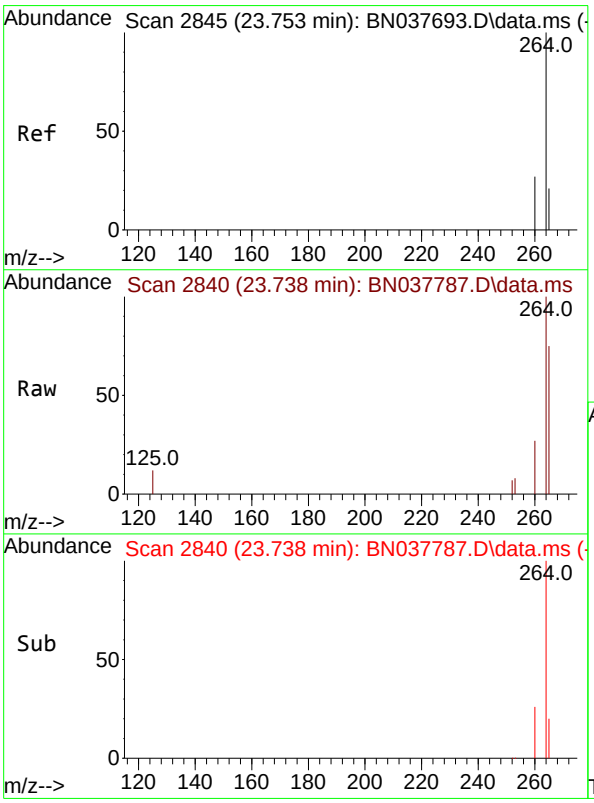

#34
Bis(2-ethylhexyl)phthalate
Concen: 0.101 ng
RT: 21.331 min Scan# 2
Delta R.T. -0.018 min
Lab File: BN037787.D
Acq: 18 Sep 2025 21:14

**Instrument :**
BNA_N
**ClientSampleId :**
DUP02-20250910

Tgt Ion:149 Resp: 1286

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 149 | 100 | | |
| 167 | 24.3 | 20.8 | 31.2 |
| 279 | 4.5 | 3.3 | 4.9 |

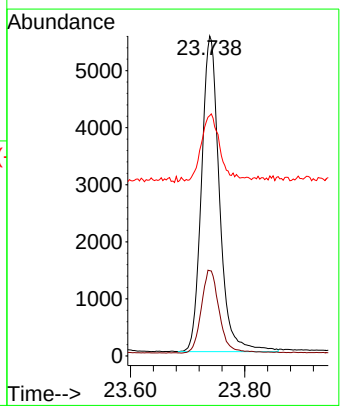



#35
Perylene-d12
Concen: 0.400 ng
RT: 23.738 min Scan# 2840
Delta R.T. -0.015 min
Lab File: BN037787.D
Acq: 18 Sep 2025 21:14

Tgt Ion:264 Resp: 12006

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 264 | 100 | | |
| 260 | 26.6 | 21.8 | 32.8 |
| 265 | 75.1 | 39.4 | 59.2# |



Raw Data: **BN037788.D**

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

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | AECOM Technical Services, Inc. | Date Collected: | 09/10/25 |
| Project: | NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258 | Date Received: | 09/12/25 |
| Client Sample ID: | DUP03-20250910 | SDG No.: | Q3095 |
| Lab Sample ID: | Q3095-26 | Matrix: | Water |
| Analytical Method: | SW8270ESIM | % Solid: | 0 |
| Sample Wt/Vol: | 1000 Units: mL | Final Vol: | 1000 uL |
| Soil Aliquot Vol: | uL | Test: | SVOC-SIMGroup1 |
| Extraction Type : | Decanted : N | Level : | LOW |
| Injection Volume : | GPC Factor : 1.0 | GPC Cleanup : | N PH : |
| Prep Method : | | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| BN037788.D | 1 | 09/15/25 12:00 | 09/18/25 21:51 | PB169693 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOD | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | | |
| 123-91-1 | 1,4-Dioxane | 0.11 | J | 0.070 | 0.20 | 0.20 | ug/L |
| **SURROGATES** | | | | | | | |
| 7297-45-2 | 2-Methylnaphthalene-d10 | 0.32 | | 30 - 150 | | 80% | SPK: 0.4 |
| 93951-69-0 | Fluoranthene-d10 | 0.35 | | 30 - 150 | | 88% | SPK: 0.4 |
| 4165-60-0 | Nitrobenzene-d5 | 0.35 | | 55 - 111 | | 88% | SPK: 0.4 |
| 321-60-8 | 2-Fluorobiphenyl | 0.37 | | 53 - 106 | | 92% | SPK: 0.4 |
| 1718-51-0 | Terphenyl-d14 | 0.39 | | 58 - 132 | | 96% | SPK: 0.4 |
| **INTERNAL STANDARDS** | | | | | | | |
| 3855-82-1 | 1,4-Dichlorobenzene-d4 | 7670 | 7.833 | | | | |
| 1146-65-2 | Naphthalene-d8 | 20400 | 10.637 | | | | |
| 15067-26-2 | Acenaphthene-d10 | 8850 | 14.484 | | | | |
| 1517-22-2 | Phenanthrene-d10 | 15300 | 17.235 | | | | |
| 1719-03-5 | Chrysene-d12 | 12400 | 21.411 | | | | |
| 1520-96-3 | Perylene-d12 | 11800 | 23.741 | | | | |

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\BN091825\
Data File : BN037788.D
Acq On : 18 Sep 2025 21:51
Operator : RC/JU
Sample : Q3095-26
Misc :
ALS Vial : 14 Sample Multiplier: 1

**Instrument :**
BNA_N
**ClientSampleId :**
DUP03-20250910

Quant Time: Sep 19 04:11:46 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN091125.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Sep 11 14:20:01 2025
Response via : Initial Calibration

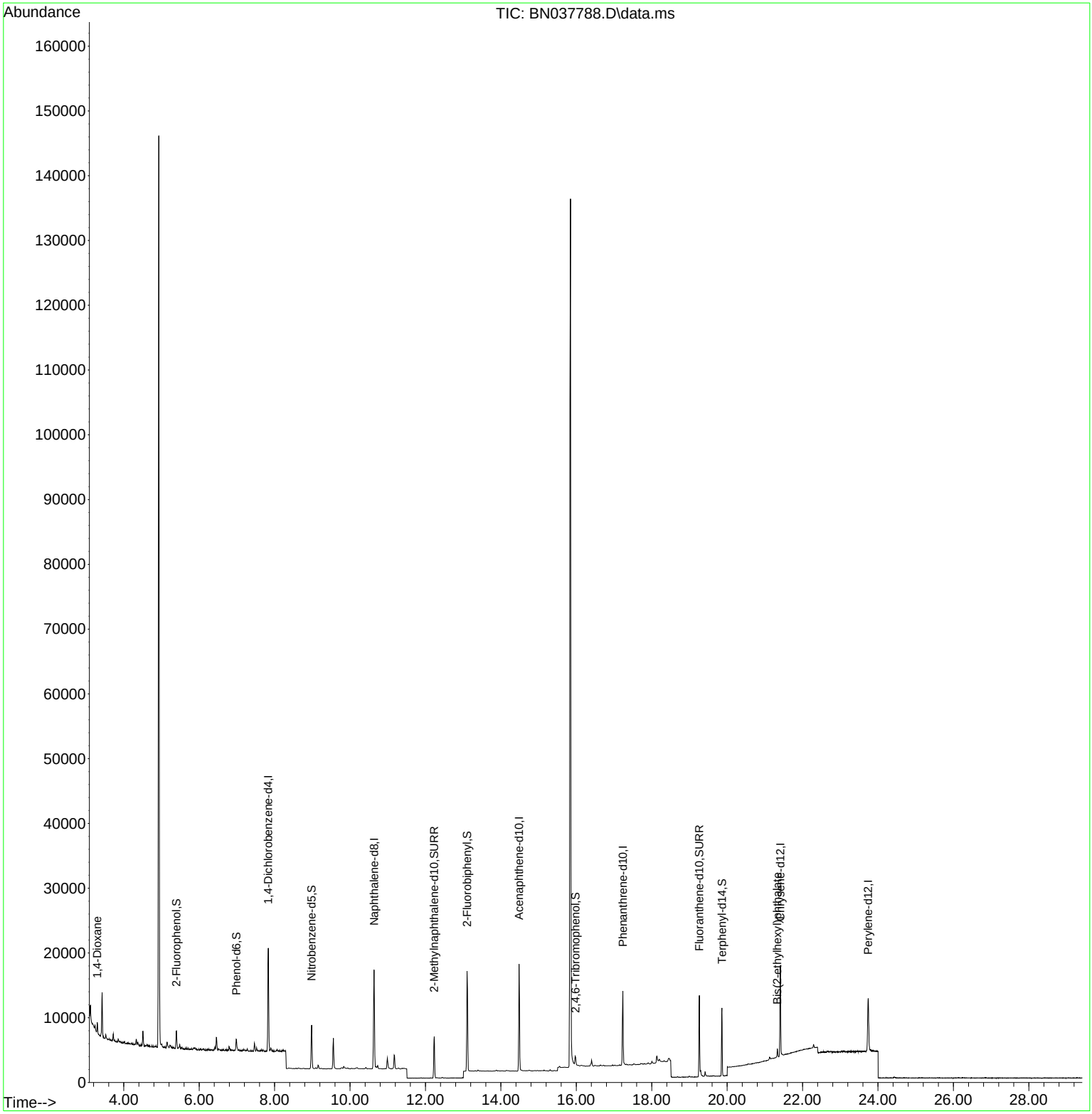
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) 1,4-Dichlorobenzene-d4 | 7.833 | 152 | 7666 | 0.400 | ng | 0.00 |
| 7) Naphthalene-d8 | 10.637 | 136 | 20364 | 0.400 | ng | -0.01 |
| 13) Acenaphthene-d10 | 14.484 | 164 | 8849 | 0.400 | ng | -0.01 |
| 19) Phenanthrene-d10 | 17.235 | 188 | 15319 | 0.400 | ng | # 0.00 |
| 29) Chrysene-d12 | 21.411 | 240 | 12443 | 0.400 | ng | 0.00 |
| 35) Perylene-d12 | 23.741 | 264 | 11797 | 0.400 | ng | #-0.01 |
| System Monitoring Compounds | | | | | | |
| 4) 2-Fluorophenol | 5.399 | 112 | 2255 | 0.128 | ng | 0.00 |
| 5) Phenol-d6 | 6.988 | 99 | 1672 | 0.073 | ng | 0.00 |
| 8) Nitrobenzene-d5 | 8.982 | 82 | 5250 | 0.352 | ng | -0.01 |
| 11) 2-Methylnaphthalene-d10 | 12.232 | 152 | 8618 | 0.319 | ng | -0.01 |
| 14) 2,4,6-Tribromophenol | 15.982 | 330 | 891 | 0.386 | ng | 0.00 |
| 15) 2-Fluorobiphenyl | 13.105 | 172 | 13638 | 0.368 | ng | -0.01 |
| 27) Fluoranthene-d10 | 19.262 | 212 | 13525 | 0.352 | ng | 0.00 |
| 31) Terphenyl-d14 | 19.861 | 244 | 9731 | 0.385 | ng | 0.00 |
| Target Compounds | | | | | | Qvalue |
| 2) 1,4-Dioxane | 3.297 | 88 | 903 | 0.113 | ng | # 84 |
| 34) Bis(2-ethylhexyl)phtha... | 21.331 | 149 | 1314 | 0.102 | ng | 93 |

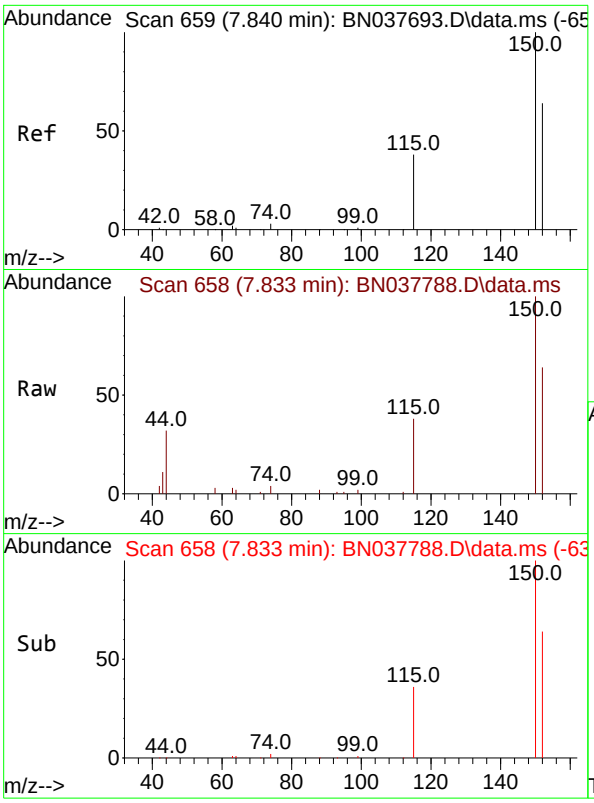
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN091825\
Data File : BN037788.D
Acq On : 18 Sep 2025 21:51
Operator : RC/JU
Sample : Q3095-26
Misc :
ALS Vial : 14 Sample Multiplier: 1

**Instrument :**
BNA_N
**ClientSampleId :**
DUP03-20250910

Quant Time: Sep 19 04:11:46 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN091125.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Sep 11 14:20:01 2025
Response via : Initial Calibration



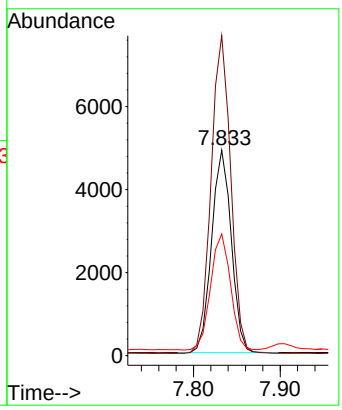


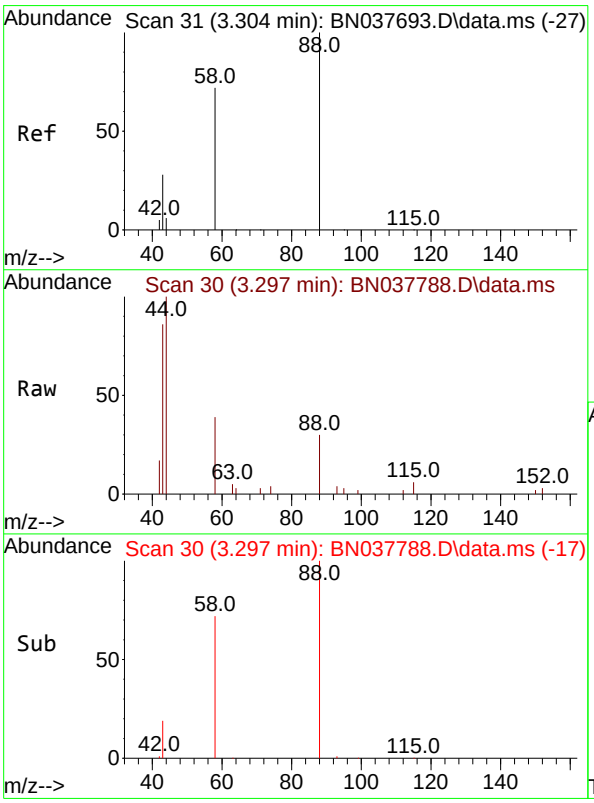

#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.833 min Scan# 6
Delta R.T. -0.007 min
Lab File: BN037788.D
Acq: 18 Sep 2025 21:51

**Instrument :**
BNA_N
**ClientSampleId :**
DUP03-20250910

Tgt Ion:152 Resp: 7666

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 150 | 155.6 | 124.5 | 186.7 |
| 115 | 59.2 | 49.2 | 73.8 |

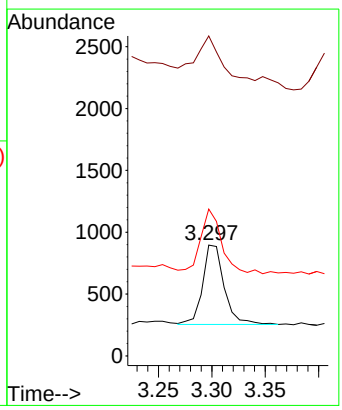


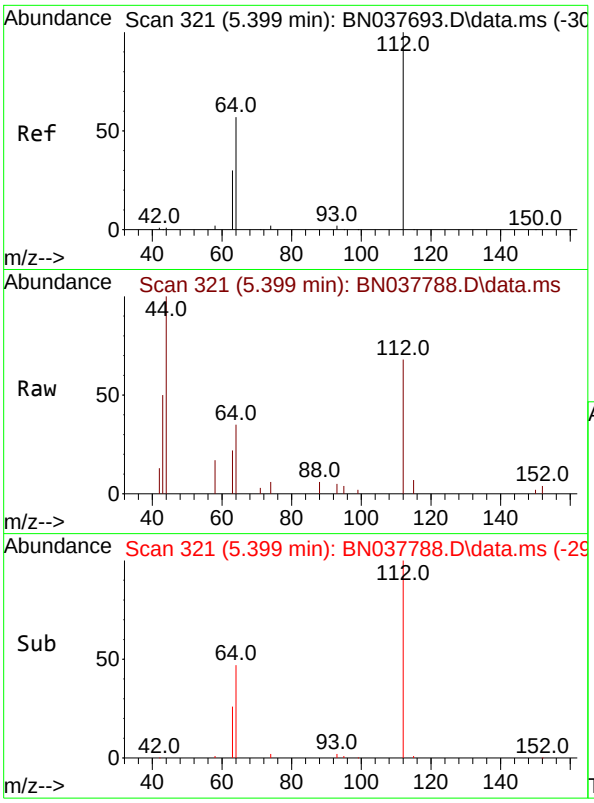




#2
1,4-Dioxane
Concen: 0.113 ng
RT: 3.297 min Scan# 30
Delta R.T. -0.007 min
Lab File: BN037788.D
Acq: 18 Sep 2025 21:51

Tgt Ion: 88 Resp: 903

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 88 | 100 | | |
| 43 | 63.6 | 26.8 | 40.2# |
| 58 | 77.2 | 61.9 | 92.9 |



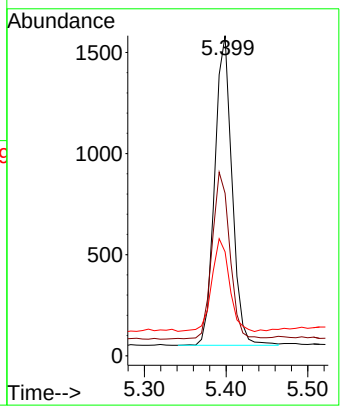


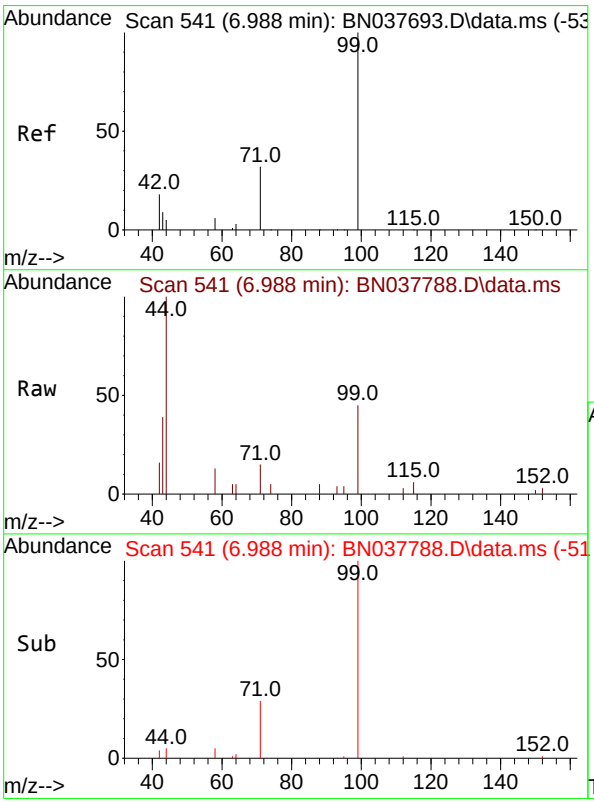

#4
2-Fluorophenol
Concen: 0.128 ng
RT: 5.399 min Scan# 3
Delta R.T. -0.000 min
Lab File: BN037788.D
Acq: 18 Sep 2025 21:51

**Instrument :**
BNA_N
**ClientSampleId :**
DUP03-20250910

Tgt Ion:112 Resp: 2255

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 112 | 100 | | |
| 64 | 55.4 | 44.9 | 67.3 |
| 63 | 30.6 | 24.7 | 37.1 |

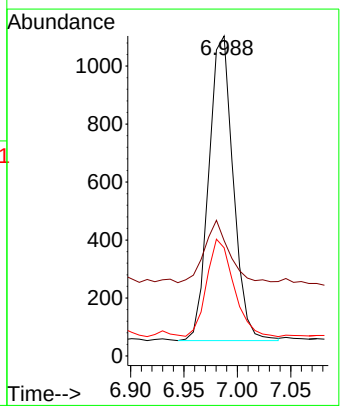


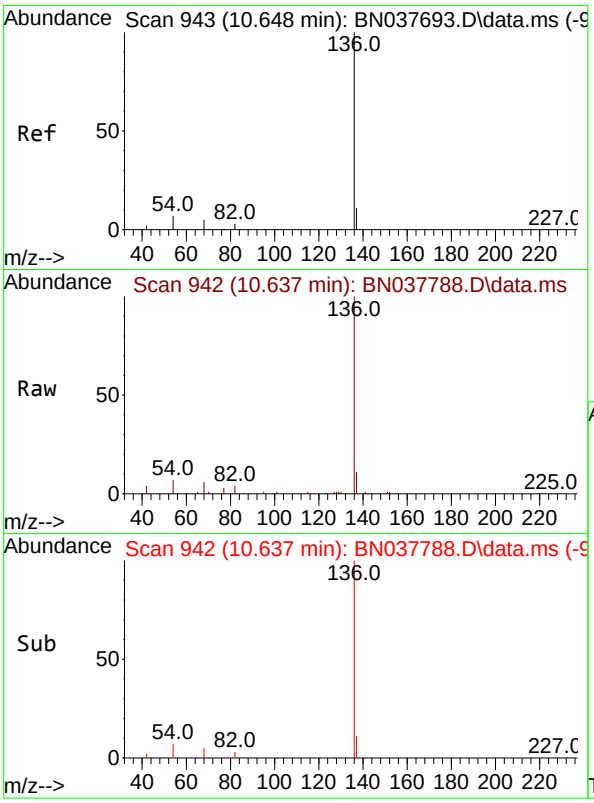




#5
Phenol-d6
Concen: 0.073 ng
RT: 6.988 min Scan# 541
Delta R.T. -0.000 min
Lab File: BN037788.D
Acq: 18 Sep 2025 21:51

Tgt Ion: 99 Resp: 1672

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 99 | 100 | | |
| 42 | 20.6 | 16.6 | 24.8 |
| 71 | 35.4 | 26.7 | 40.1 |



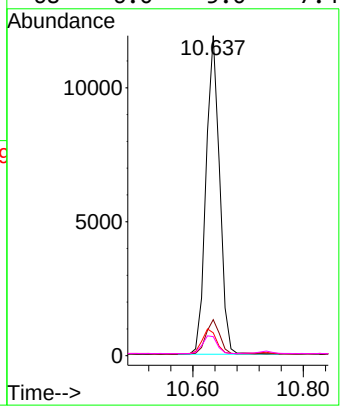


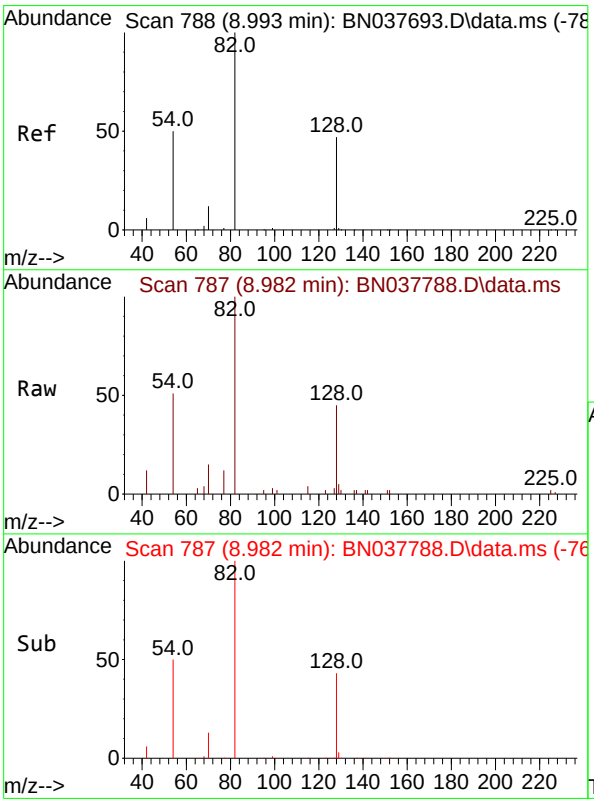

#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.637 min Scan# 94
Delta R.T. -0.011 min
Lab File: BN037788.D
Acq: 18 Sep 2025 21:51

**Instrument :**
BNA_N
**ClientSampleId :**
DUP03-20250910

Tgt Ion:136 Resp: 20364

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 136 | 100 | | |
| 137 | 11.3 | 9.1 | 13.7 |
| 54 | 7.2 | 6.3 | 9.5 |
| 68 | 6.0 | 5.0 | 7.4 |

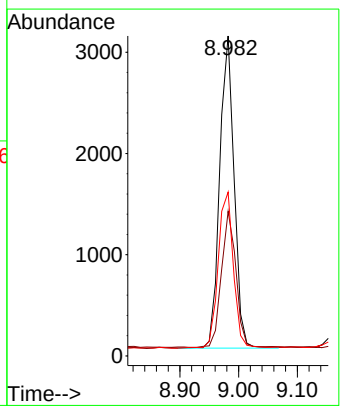


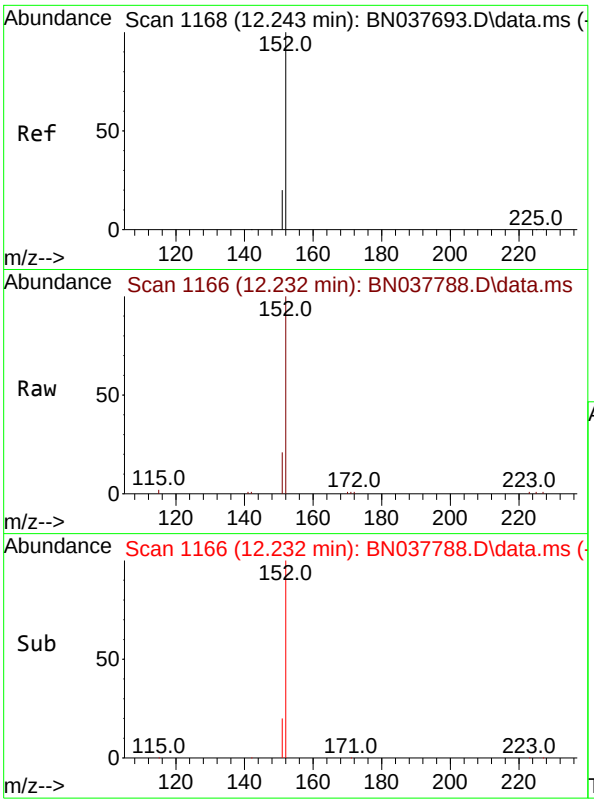




#8
Nitrobenzene-d5
Concen: 0.352 ng
RT: 8.982 min Scan# 787
Delta R.T. -0.011 min
Lab File: BN037788.D
Acq: 18 Sep 2025 21:51

Tgt Ion: 82 Resp: 5250

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 82 | 100 | | |
| 128 | 45.2 | 38.3 | 57.5 |
| 54 | 51.2 | 41.4 | 62.2 |



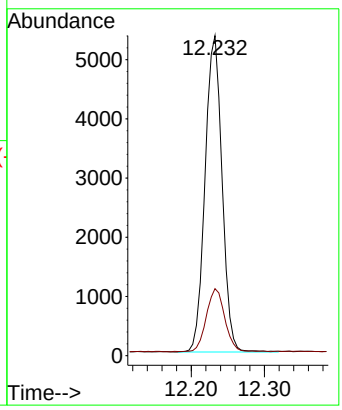


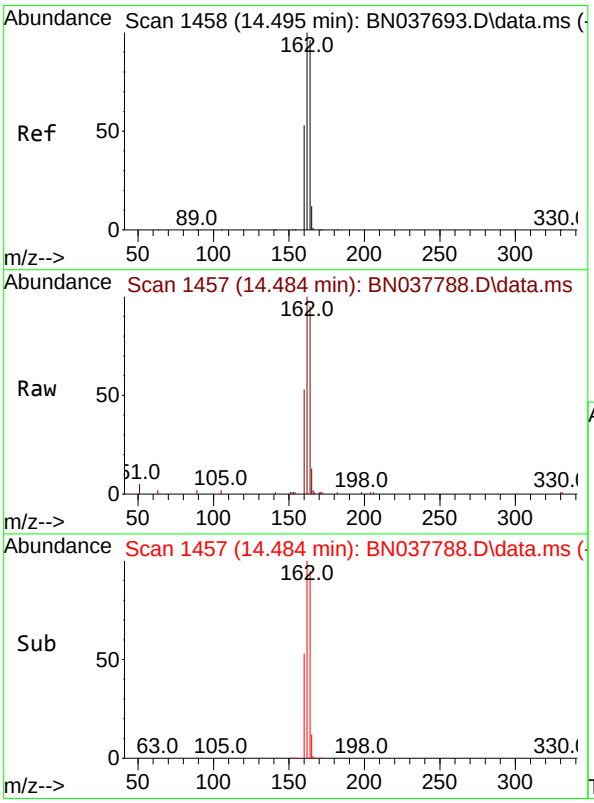

#11
2-Methylnaphthalene-d10
Concen: 0.319 ng
RT: 12.232 min Scan# 11
Delta R.T. -0.010 min
Lab File: BN037788.D
Acq: 18 Sep 2025 21:51

**Instrument :**
BNA_N
**ClientSampleId :**
DUP03-20250910

Tgt Ion:152 Resp: 8618

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 151 | 21.7 | 17.0 | 25.6 |

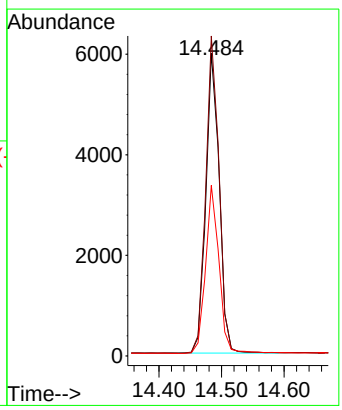


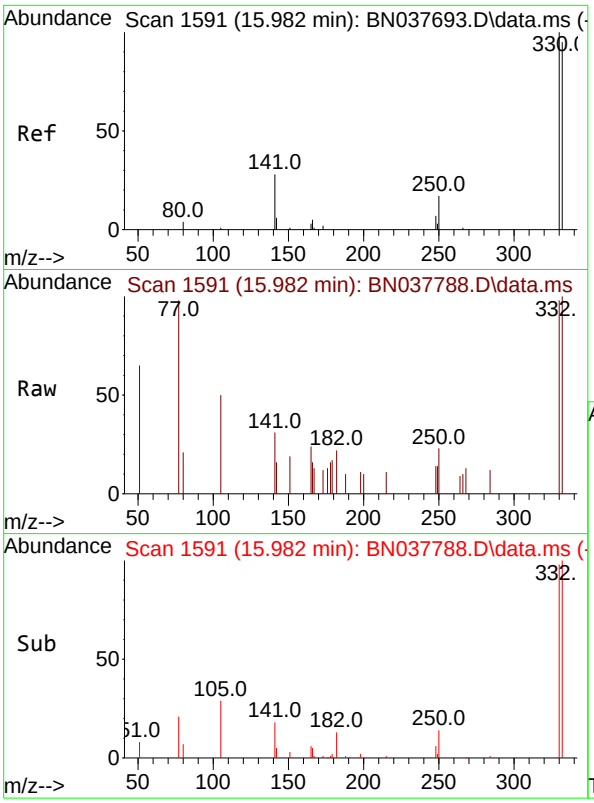




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.484 min Scan# 1457
Delta R.T. -0.011 min
Lab File: BN037788.D
Acq: 18 Sep 2025 21:51

Tgt Ion:164 Resp: 8849

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 164 | 100 | | |
| 162 | 105.7 | 83.1 | 124.7 |
| 160 | 56.3 | 44.3 | 66.5 |



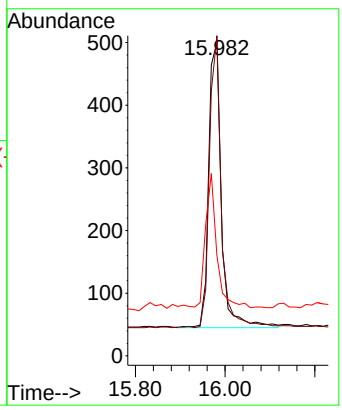


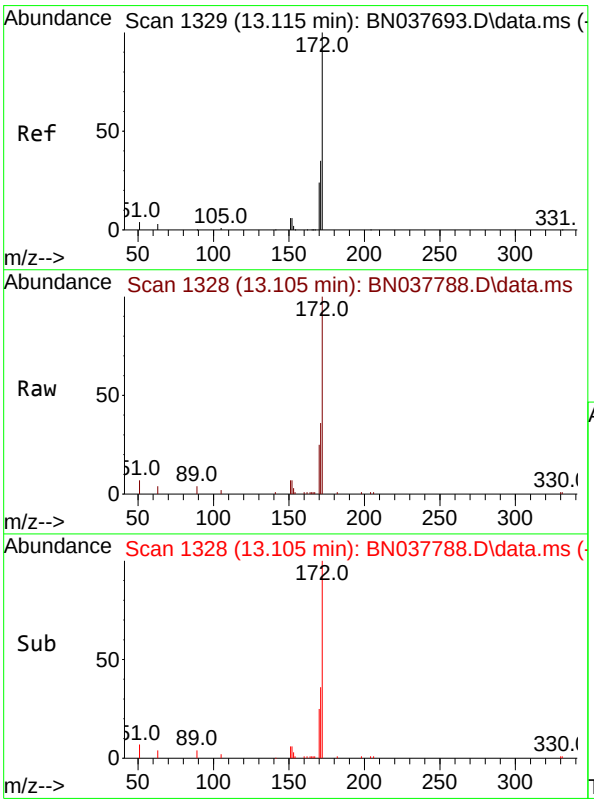

#14
2,4,6-Tribromophenol
Concen: 0.386 ng
RT: 15.982 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN037788.D
Acq: 18 Sep 2025 21:51

**Instrument :**
BNA_N
**ClientSampleId :**
DUP03-20250910

Tgt Ion:330 Resp: 891

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 330 | 100 | | |
| 332 | 95.7 | 75.3 | 112.9 |
| 141 | 43.1 | 35.0 | 52.4 |

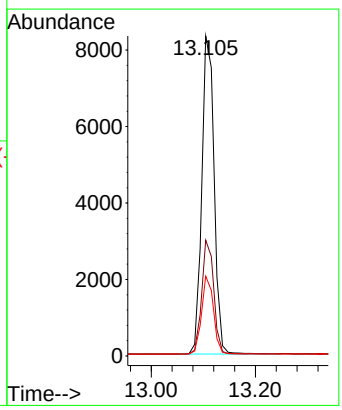


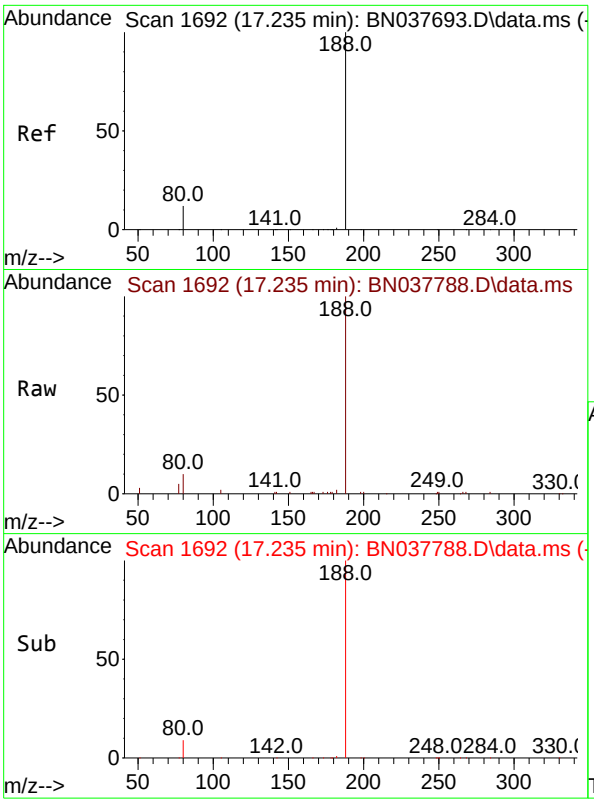




#15
2-Fluorobiphenyl
Concen: 0.368 ng
RT: 13.105 min Scan# 1328
Delta R.T. -0.011 min
Lab File: BN037788.D
Acq: 18 Sep 2025 21:51

Tgt Ion:172 Resp: 13638

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 172 | 100 | | |
| 171 | 36.2 | 28.6 | 43.0 |
| 170 | 25.0 | 19.8 | 29.8 |



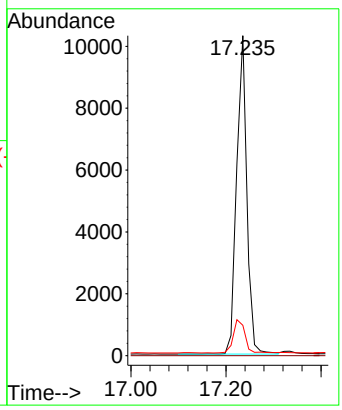


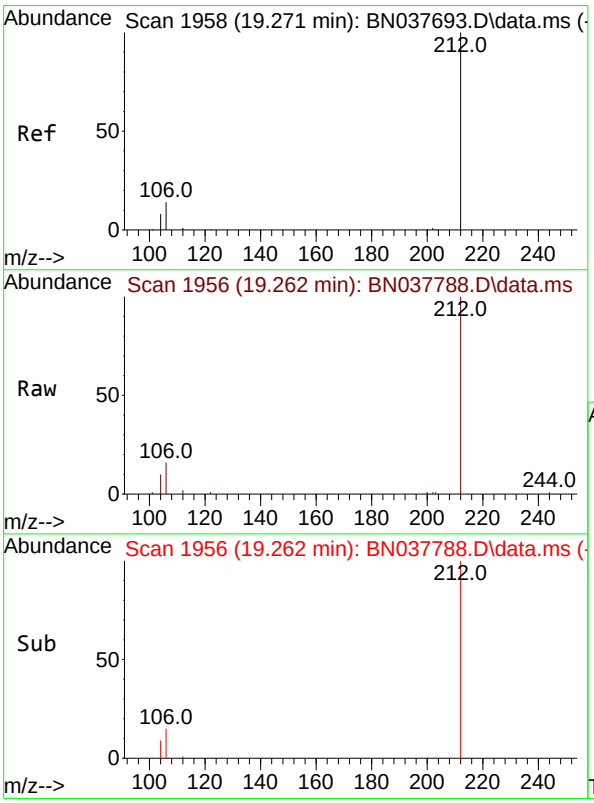

#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.235 min Scan# 1(
Delta R.T. -0.000 min
Lab File: BN037788.D
Acq: 18 Sep 2025 21:51

**Instrument :**
BNA_N
**ClientSampleId :**
DUP03-20250910

Tgt Ion:188 Resp: 15319

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 188 | 100 | | |
| 94 | 0.0 | 0.0 | 0.0 |
| 80 | 9.5 | 10.6 | 15.8# |

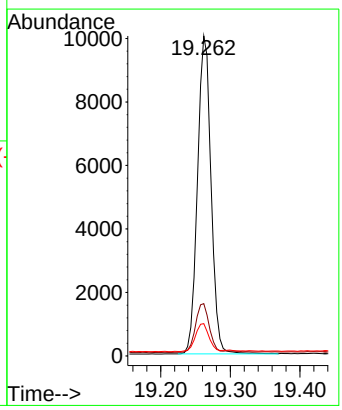


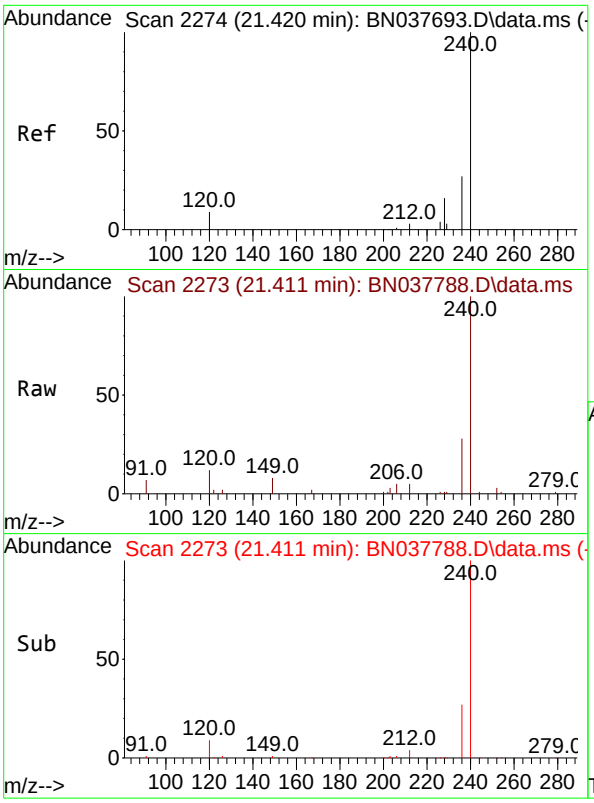




#27
Fluoranthene-d10
Concen: 0.352 ng
RT: 19.262 min Scan# 1956
Delta R.T. -0.009 min
Lab File: BN037788.D
Acq: 18 Sep 2025 21:51

Tgt Ion:212 Resp: 13525

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 212 | 100 | | |
| 106 | 15.5 | 12.2 | 18.2 |
| 104 | 9.1 | 6.9 | 10.3 |



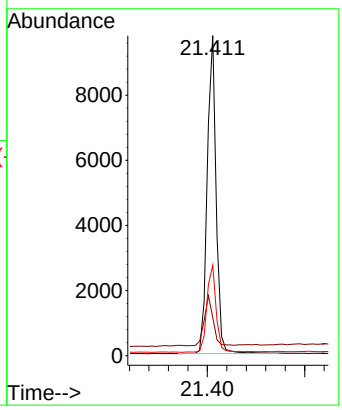


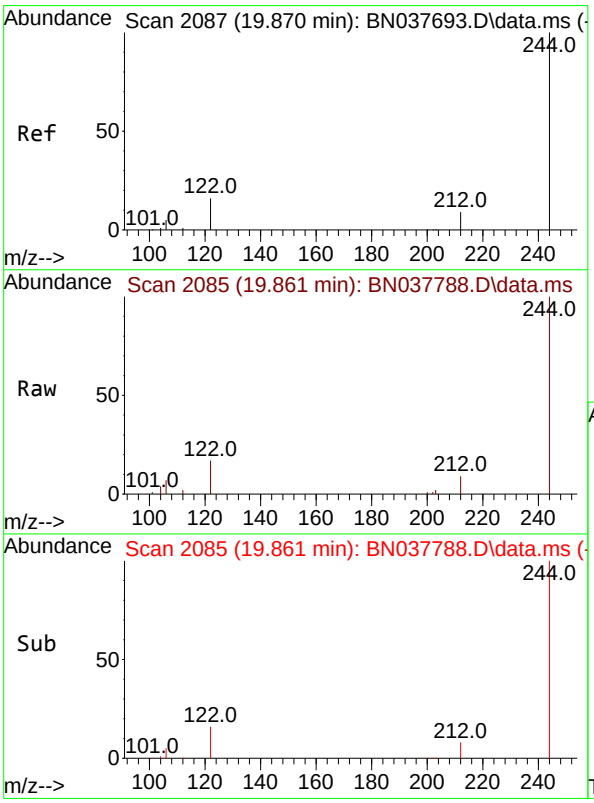

#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.411 min Scan# 21
Delta R.T. -0.009 min
Lab File: BN037788.D
Acq: 18 Sep 2025 21:51

**Instrument :**
BNA_N
**ClientSampleId :**
DUP03-20250910

Tgt Ion:240 Resp: 12443

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 240 | 100 | | |
| 120 | 12.0 | 9.2 | 13.8 |
| 236 | 28.2 | 22.6 | 33.8 |

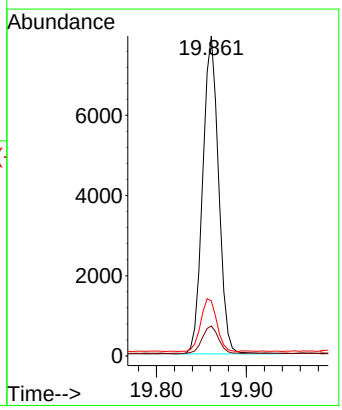


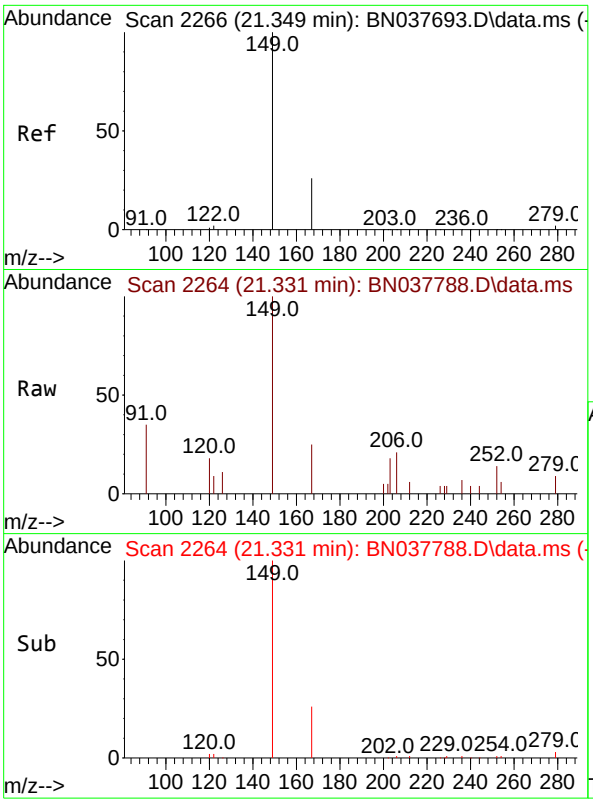




#31
Terphenyl-d14
Concen: 0.385 ng
RT: 19.861 min Scan# 2085
Delta R.T. -0.009 min
Lab File: BN037788.D
Acq: 18 Sep 2025 21:51

Tgt Ion:244 Resp: 9731

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 244 | 100 | | |
| 212 | 9.4 | 7.5 | 11.3 |
| 122 | 17.2 | 13.2 | 19.8 |



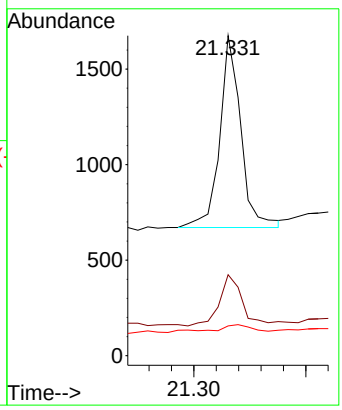


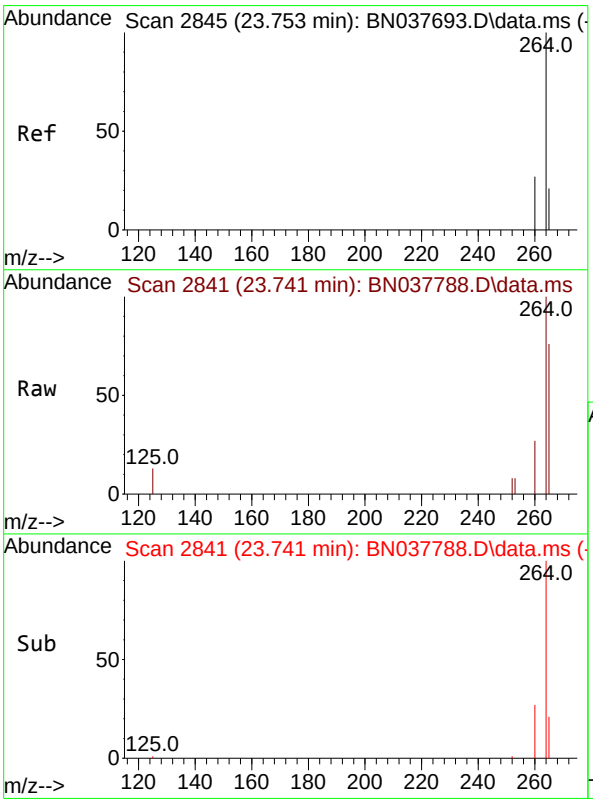

#34
Bis(2-ethylhexyl)phthalate
Concen: 0.102 ng
RT: 21.331 min Scan# 2
Delta R.T. -0.018 min
Lab File: BN037788.D
Acq: 18 Sep 2025 21:51

**Instrument :**
BNA_N
**ClientSampleId :**
DUP03-20250910

Tgt Ion:149 Resp: 1314

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 149 | 100 | | |
| 167 | 30.2 | 20.8 | 31.2 |
| 279 | 4.0 | 3.3 | 4.9 |

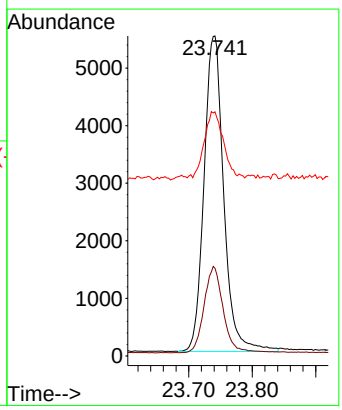



#35
Perylene-d12
Concen: 0.400 ng
RT: 23.741 min Scan# 2841
Delta R.T. -0.012 min
Lab File: BN037788.D
Acq: 18 Sep 2025 21:51

Tgt Ion:264 Resp: 11797

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 264 | 100 | | |
| 260 | 27.4 | 21.8 | 32.8 |
| 265 | 76.3 | 39.4 | 59.2# |



Raw Data: **BN037815.D**

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

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | AECOM Technical Services, Inc. | Date Collected: | 09/10/25 |
| Project: | NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258 | Date Received: | 09/12/25 |
| Client Sample ID: | RE117D1-20250910 | SDG No.: | Q3095 |
| Lab Sample ID: | Q3095-27 | Matrix: | Water |
| Analytical Method: | SW8270ESIM | % Solid: | 0 |
| Sample Wt/Vol: | 1000 Units: mL | Final Vol: | 1000 uL |
| Soil Aliquot Vol: | uL | Test: | SVOC-SIMGroup1 |
| Extraction Type : | Decanted : N | Level : | LOW |
| Injection Volume : | GPC Factor : 1.0 | GPC Cleanup : | N PH : |
| Prep Method : | | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| BN037815.D | 1 | 09/15/25 12:00 | 09/19/25 15:32 | PB169693 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOD | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | | |
| 123-91-1 | 1,4-Dioxane | 0.74 | | 0.070 | 0.20 | 0.20 | ug/L |
| **SURROGATES** | | | | | | | |
| 7297-45-2 | 2-Methylnaphthalene-d10 | 0.35 | | 30 - 150 | | 87% | SPK: 0.4 |
| 93951-69-0 | Fluoranthene-d10 | 0.39 | | 30 - 150 | | 98% | SPK: 0.4 |
| 4165-60-0 | Nitrobenzene-d5 | 0.41 | | 55 - 111 | | 103% | SPK: 0.4 |
| 321-60-8 | 2-Fluorobiphenyl | 0.40 | | 53 - 106 | | 101% | SPK: 0.4 |
| 1718-51-0 | Terphenyl-d14 | 0.40 | | 58 - 132 | | 100% | SPK: 0.4 |
| **INTERNAL STANDARDS** | | | | | | | |
| 3855-82-1 | 1,4-Dichlorobenzene-d4 | 4750 | 7.833 | | | | |
| 1146-65-2 | Naphthalene-d8 | 12200 | 10.637 | | | | |
| 15067-26-2 | Acenaphthene-d10 | 5110 | 14.484 | | | | |
| 1517-22-2 | Phenanthrene-d10 | 8980 | 17.223 | | | | |
| 1719-03-5 | Chrysene-d12 | 8110 | 21.411 | | | | |
| 1520-96-3 | Perylene-d12 | 7860 | 23.744 | | | | |

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

Sample Results: **BN037815.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN091925\
Data File : BN037815.D
Acq On : 19 Sep 2025 15:32
Operator : RC/JU
Sample : Q3095-27
Misc :
ALS Vial : 4 Sample Multiplier: 1

**Instrument :**
BNA_N
**ClientSampleId :**
RE117D1-20250910

Quant Time: Sep 19 16:55:45 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN091125.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Sep 11 14:20:01 2025
Response via : Initial Calibration

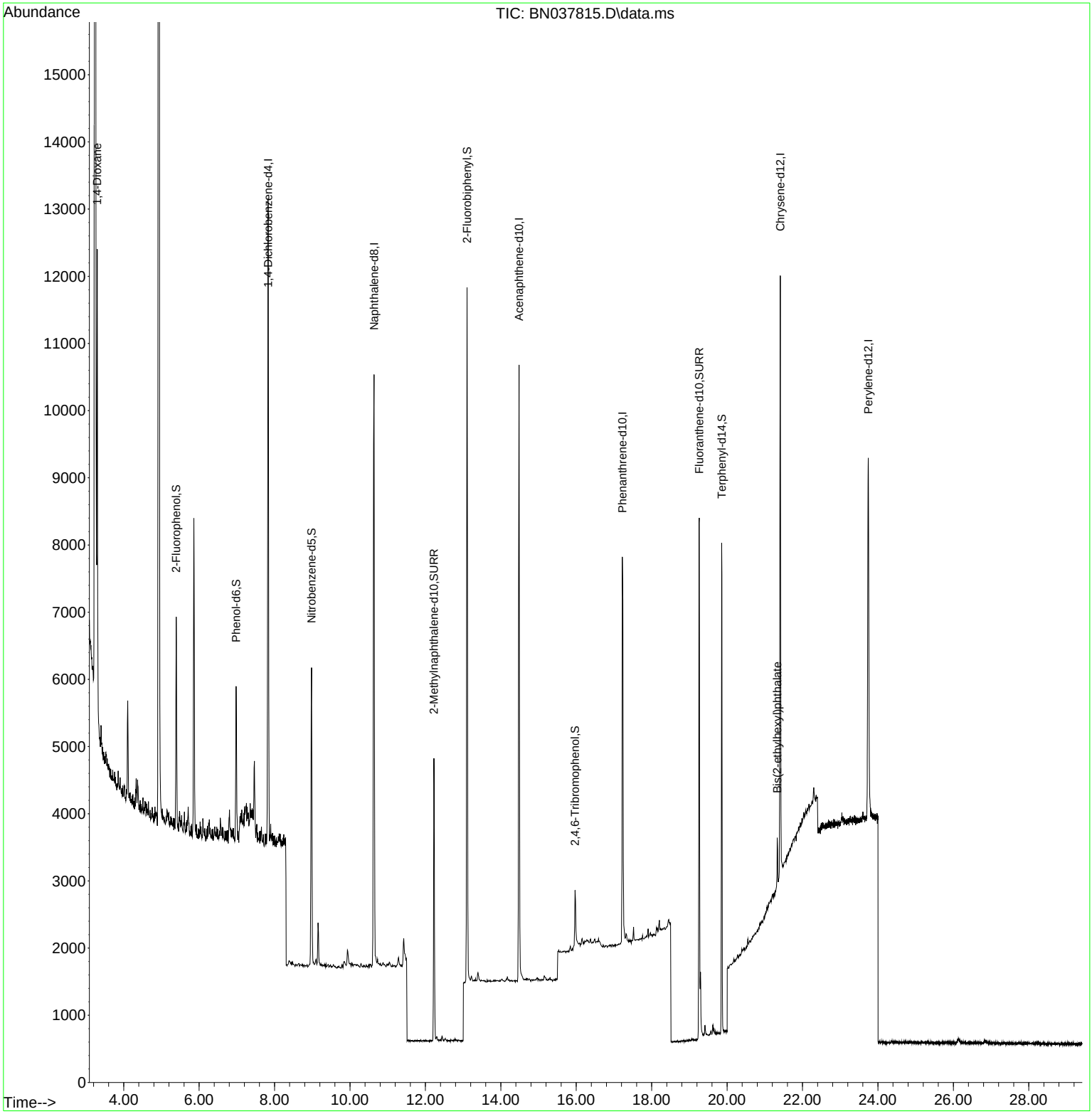
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) 1,4-Dichlorobenzene-d4 | 7.833 | 152 | 4745 | 0.400 | ng | 0.00 |
| 7) Naphthalene-d8 | 10.637 | 136 | 12184 | 0.400 | ng | -0.01 |
| 13) Acenaphthene-d10 | 14.484 | 164 | 5111 | 0.400 | ng | -0.01 |
| 19) Phenanthrene-d10 | 17.223 | 188 | 8978 | 0.400 | ng | -0.01 |
| 29) Chrysene-d12 | 21.411 | 240 | 8113 | 0.400 | ng | # 0.00 |
| 35) Perylene-d12 | 23.744 | 264 | 7855 | 0.400 | ng | # 0.00 |
| System Monitoring Compounds | | | | | | |
| 4) 2-Fluorophenol | 5.391 | 112 | 2461 | 0.226 | ng | 0.00 |
| 5) Phenol-d6 | 6.980 | 99 | 1910 | 0.135 | ng | 0.00 |
| 8) Nitrobenzene-d5 | 8.982 | 82 | 3685 | 0.413 | ng | -0.01 |
| 11) 2-Methylnaphthalene-d10 | 12.227 | 152 | 5602 | 0.347 | ng | -0.02 |
| 14) 2,4,6-Tribromophenol | 15.969 | 330 | 591 | 0.443 | ng | -0.01 |
| 15) 2-Fluorobiphenyl | 13.105 | 172 | 8625 | 0.403 | ng | -0.01 |
| 27) Fluoranthene-d10 | 19.262 | 212 | 8803 | 0.391 | ng | 0.00 |
| 31) Terphenyl-d14 | 19.856 | 244 | 6620 | 0.402 | ng | -0.01 |
| Target Compounds | | | | | | Qvalue |
| 2) 1,4-Dioxane | 3.297 | 88 | 3638 | 0.736 | ng | 98 |
| 34) Bis(2-ethylhexyl)phtha... | 21.331 | 149 | 723 | 0.086 | ng | # 92 |

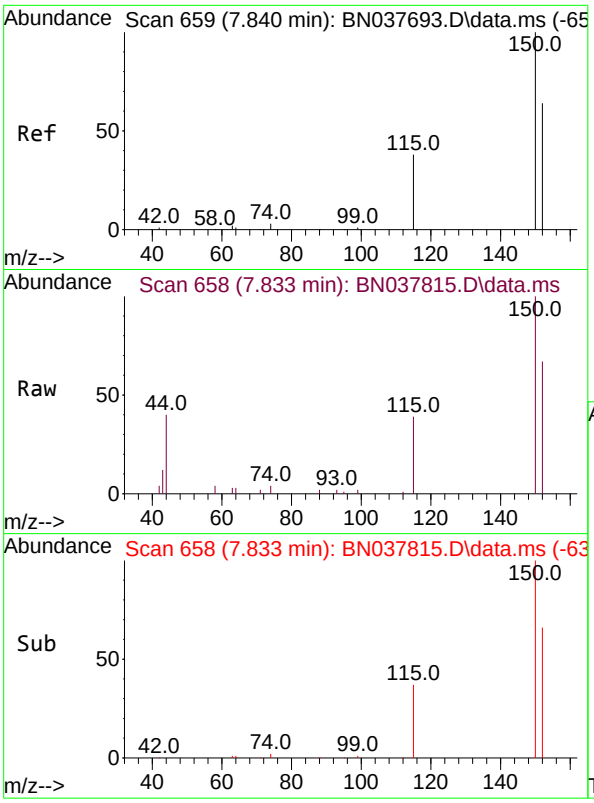
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN091925\
Data File : BN037815.D
Acq On : 19 Sep 2025 15:32
Operator : RC/JU
Sample : Q3095-27
Misc :
ALS Vial : 4 Sample Multiplier: 1

**Instrument :**
BNA_N
**ClientSampleId :**
RE117D1-20250910

Quant Time: Sep 19 16:55:45 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN091125.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Sep 11 14:20:01 2025
Response via : Initial Calibration



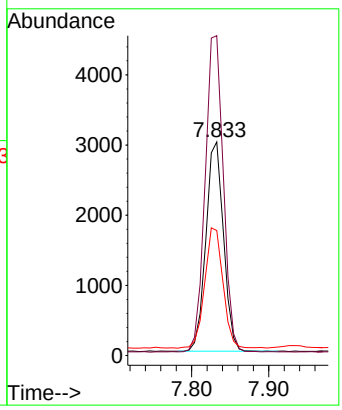


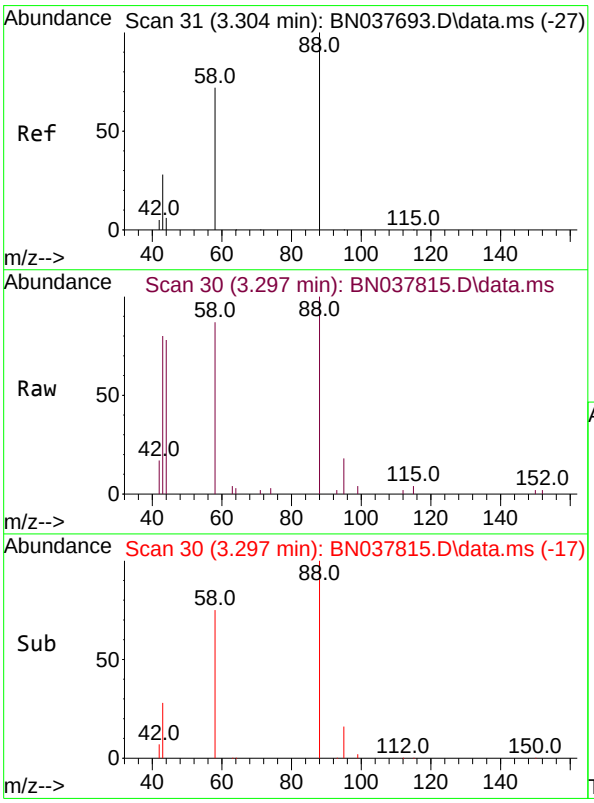

#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.833 min Scan# 6
Delta R.T. -0.007 min
Lab File: BN037815.D
Acq: 19 Sep 2025 15:32

**Instrument :**
BNA_N
**ClientSampleId :**
RE117D1-20250910

Tgt Ion:152 Resp: 4745

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 150 | 149.8 | 124.5 | 186.7 |
| 115 | 58.5 | 49.2 | 73.8 |

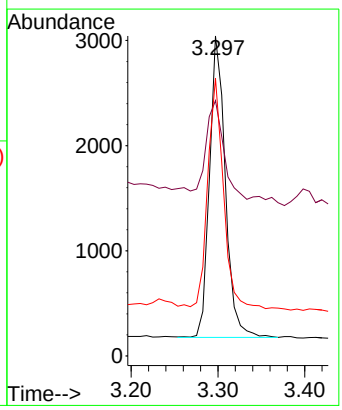


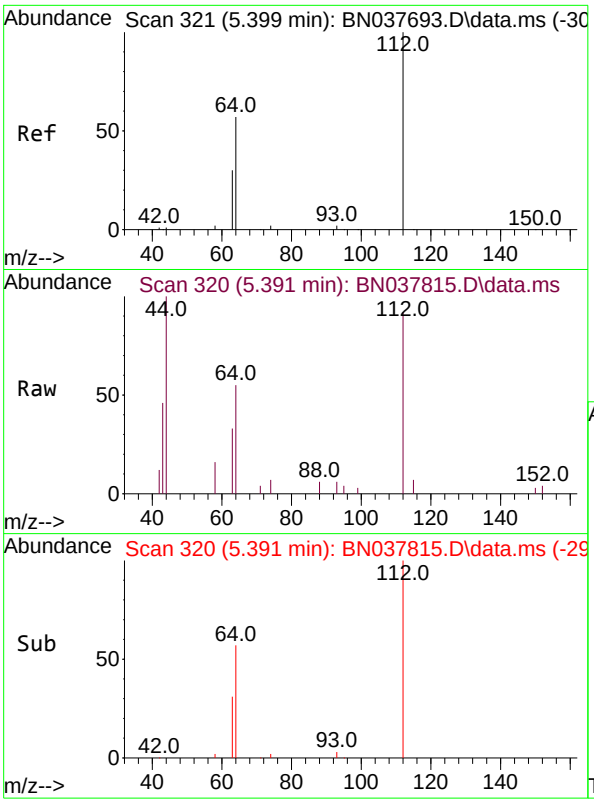




#2
1,4-Dioxane
Concen: 0.736 ng
RT: 3.297 min Scan# 30
Delta R.T. -0.007 min
Lab File: BN037815.D
Acq: 19 Sep 2025 15:32

Tgt Ion: 88 Resp: 3638

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 88 | 100 | | |
| 43 | 34.2 | 26.8 | 40.2 |
| 58 | 75.1 | 61.9 | 92.9 |



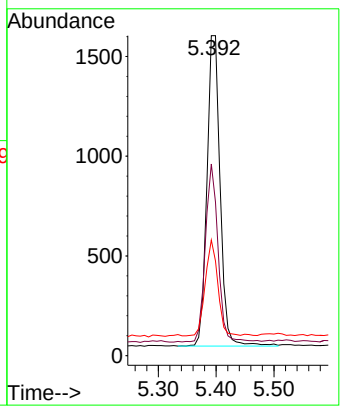


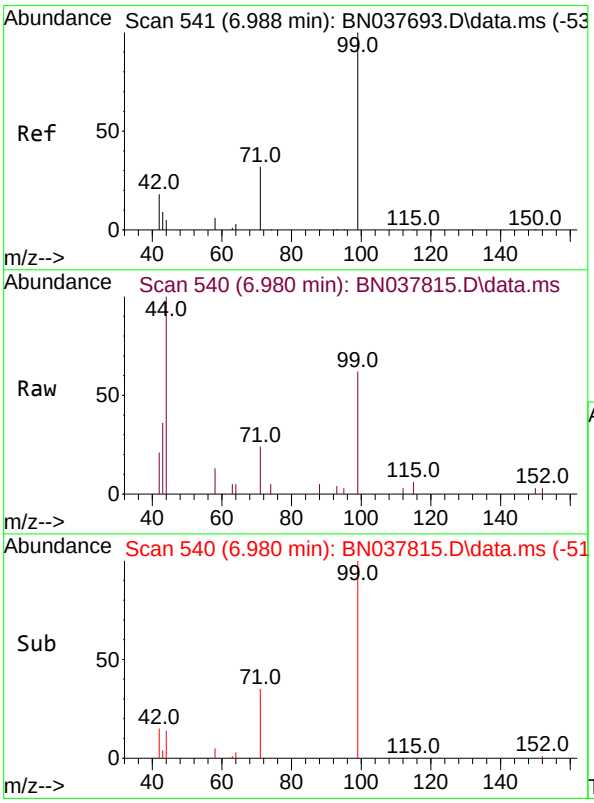

#4
2-Fluorophenol
Concen: 0.226 ng
RT: 5.391 min Scan# 3
Delta R.T. -0.007 min
Lab File: BN037815.D
Acq: 19 Sep 2025 15:32

**Instrument :**
BNA_N
**ClientSampleId :**
RE117D1-20250910

Tgt Ion:112 Resp: 2461

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 112 | 100 | | |
| 64 | 55.1 | 44.9 | 67.3 |
| 63 | 29.2 | 24.7 | 37.1 |

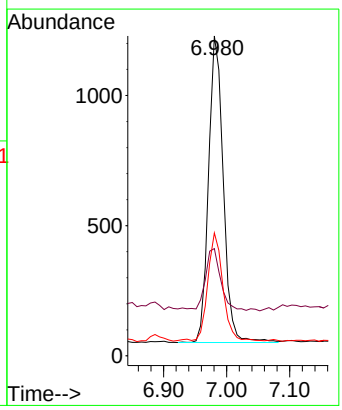


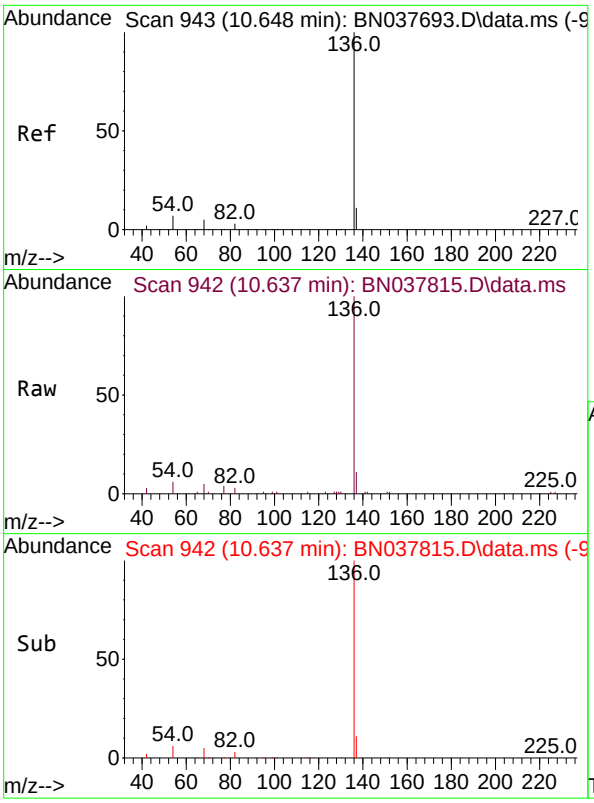




#5
Phenol-d6
Concen: 0.135 ng
RT: 6.980 min Scan# 540
Delta R.T. -0.007 min
Lab File: BN037815.D
Acq: 19 Sep 2025 15:32

Tgt Ion: 99 Resp: 1910

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 99 | 100 | | |
| 42 | 20.6 | 16.6 | 24.8 |
| 71 | 36.5 | 26.7 | 40.1 |



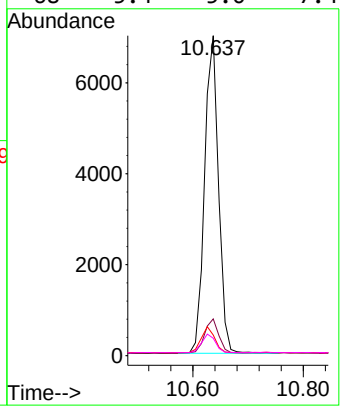


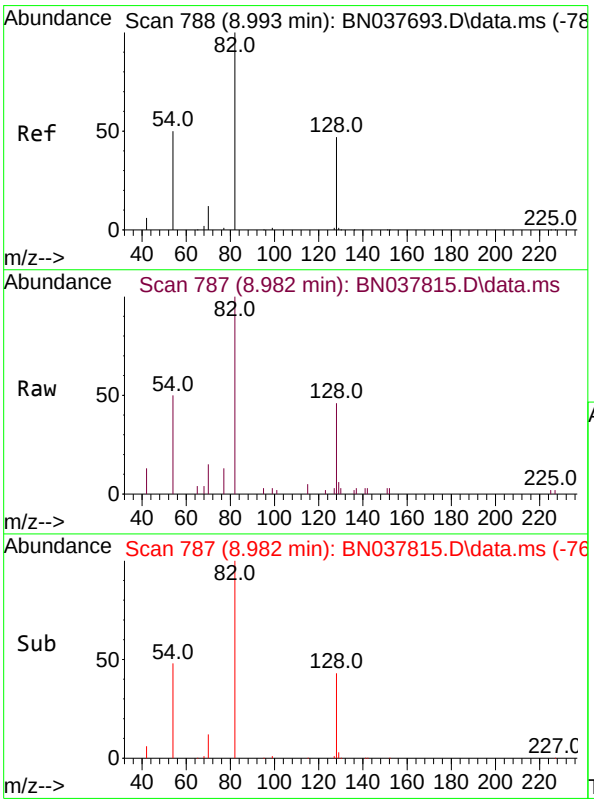

#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.637 min Scan# 94
Delta R.T. -0.011 min
Lab File: BN037815.D
Acq: 19 Sep 2025 15:32

**Instrument :**
BNA_N
**ClientSampleId :**
RE117D1-20250910

Tgt Ion:136 Resp: 12184

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 136 | 100 | | |
| 137 | 11.5 | 9.1 | 13.7 |
| 54 | 6.4 | 6.3 | 9.5 |
| 68 | 5.4 | 5.0 | 7.4 |

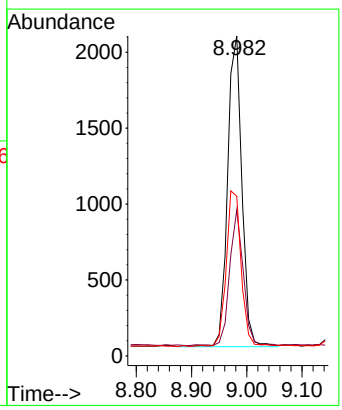


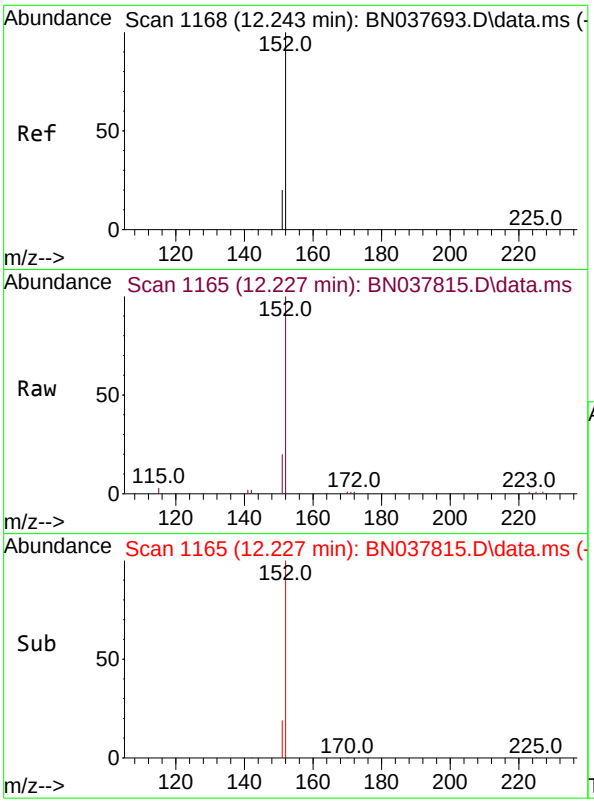




#8
Nitrobenzene-d5
Concen: 0.413 ng
RT: 8.982 min Scan# 787
Delta R.T. -0.011 min
Lab File: BN037815.D
Acq: 19 Sep 2025 15:32

Tgt Ion: 82 Resp: 3685

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 82 | 100 | | |
| 128 | 45.6 | 38.3 | 57.5 |
| 54 | 49.9 | 41.4 | 62.2 |



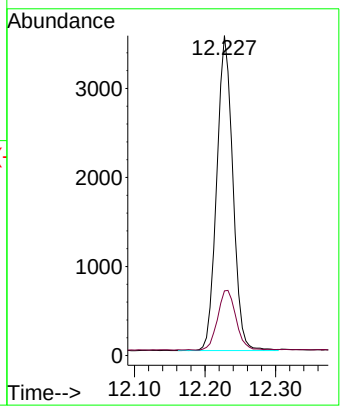


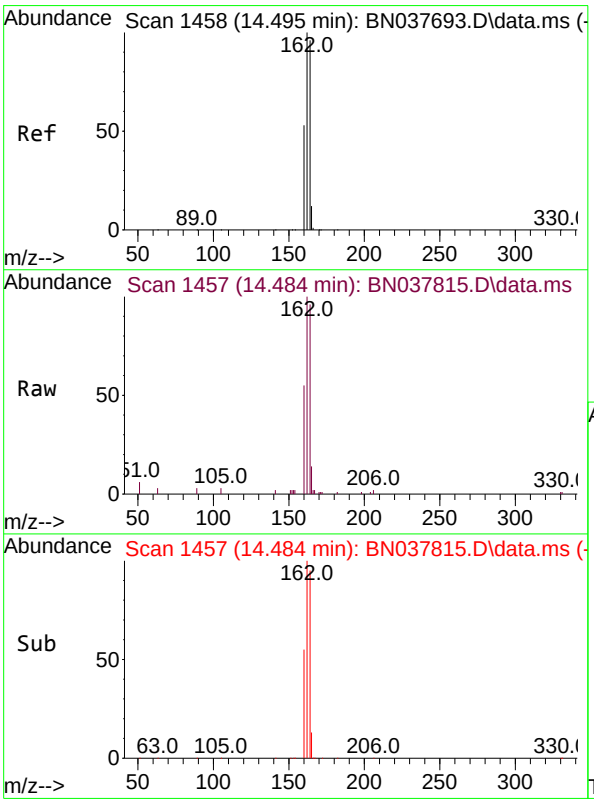

#11
2-Methylnaphthalene-d10
Concen: 0.347 ng
RT: 12.227 min Scan# 11
Delta R.T. -0.015 min
Lab File: BN037815.D
Acq: 19 Sep 2025 15:32

**Instrument :**
BNA_N
**ClientSampleId :**
RE117D1-20250910

Tgt Ion:152 Resp: 5602

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 151 | 21.6 | 17.0 | 25.6 |

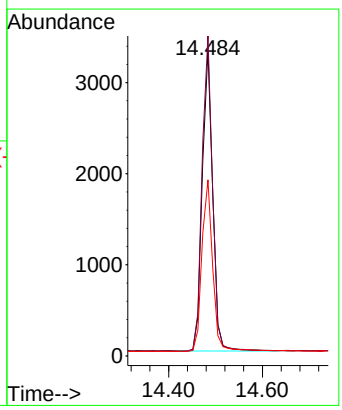


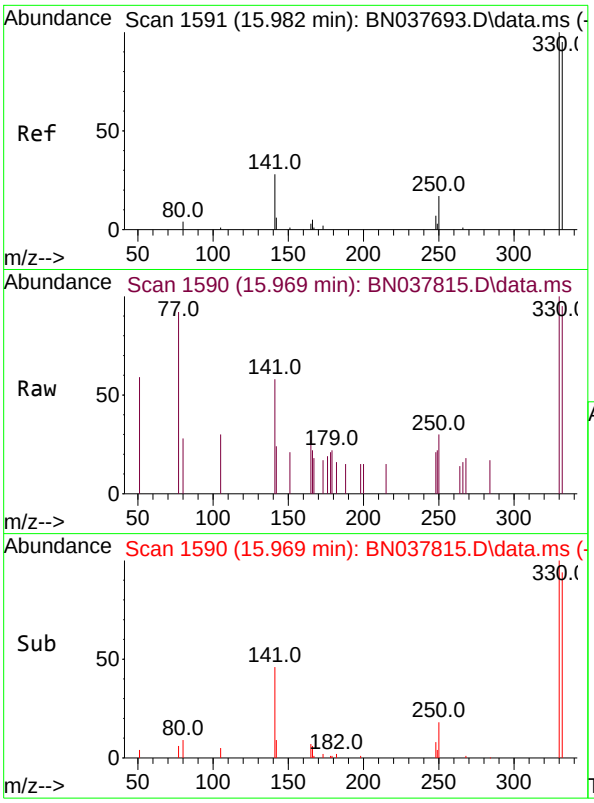




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.484 min Scan# 1457
Delta R.T. -0.011 min
Lab File: BN037815.D
Acq: 19 Sep 2025 15:32

Tgt Ion:164 Resp: 5111

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 164 | 100 | | |
| 162 | 104.7 | 83.1 | 124.7 |
| 160 | 57.6 | 44.3 | 66.5 |



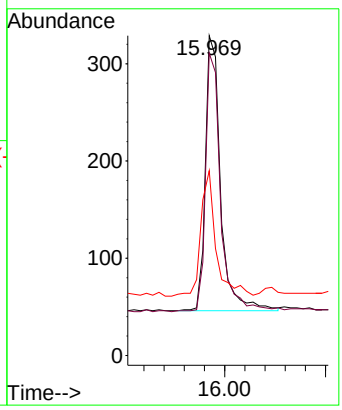


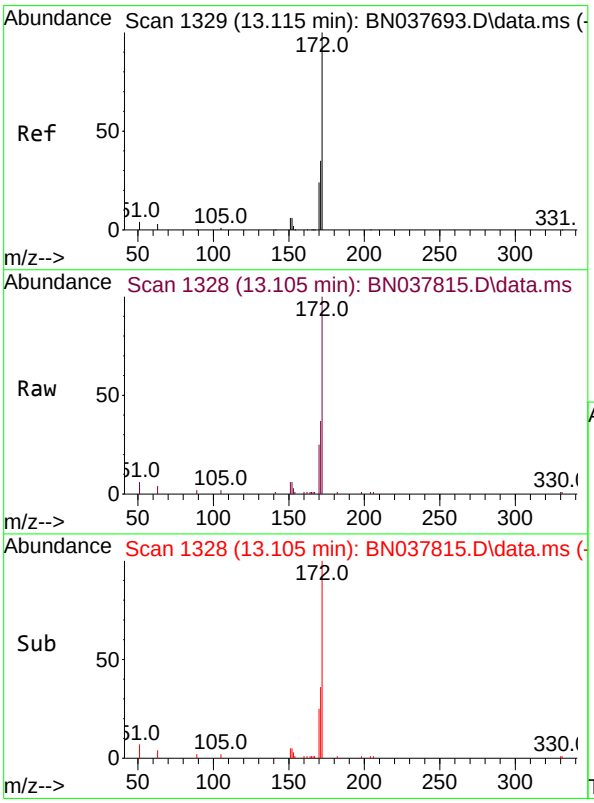

#14
2,4,6-Tribromophenol
Concen: 0.443 ng
RT: 15.969 min Scan# 1
Delta R.T. -0.013 min
Lab File: BN037815.D
Acq: 19 Sep 2025 15:32

**Instrument :**
BNA_N
**ClientSampleId :**
RE117D1-20250910

Tgt Ion:330 Resp: 591

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 330 | 100 | | |
| 332 | 93.9 | 75.3 | 112.9 |
| 141 | 45.2 | 35.0 | 52.4 |

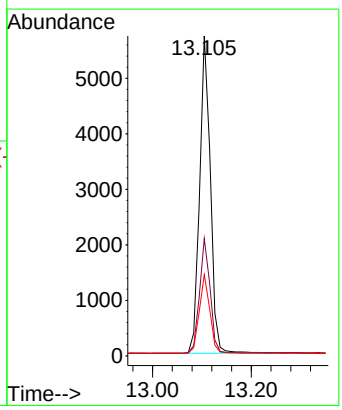


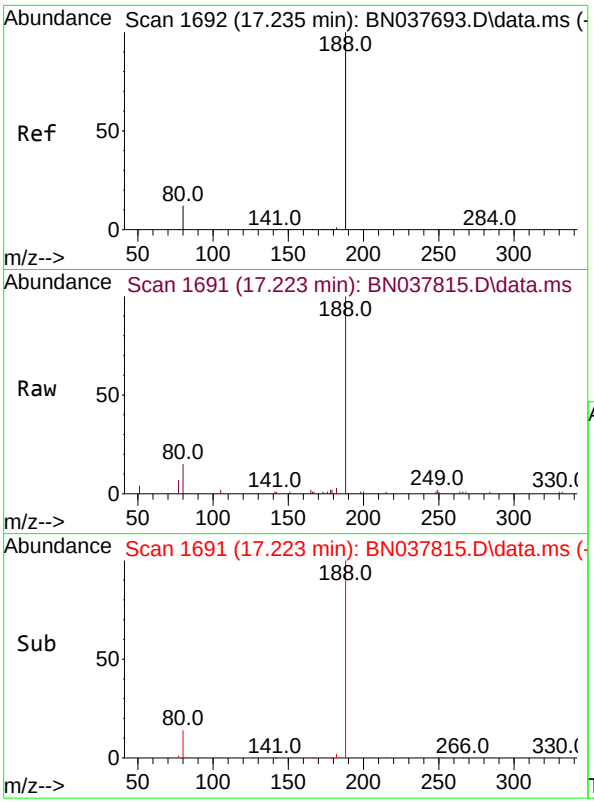




#15
2-Fluorobiphenyl
Concen: 0.403 ng
RT: 13.105 min Scan# 1328
Delta R.T. -0.011 min
Lab File: BN037815.D
Acq: 19 Sep 2025 15:32

Tgt Ion:172 Resp: 8625

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 172 | 100 | | |
| 171 | 36.7 | 28.6 | 43.0 |
| 170 | 25.4 | 19.8 | 29.8 |



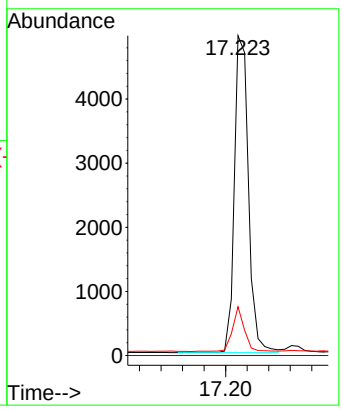


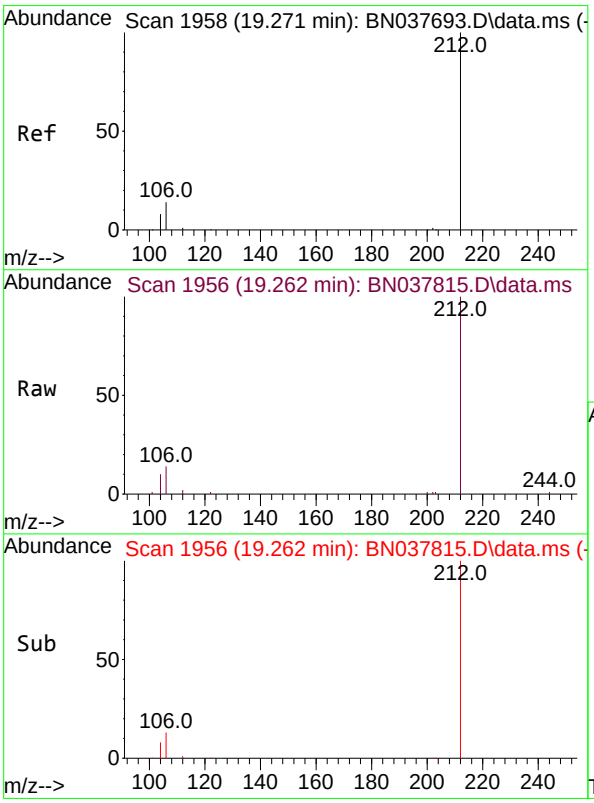

#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.223 min Scan# 1
Delta R.T. -0.013 min
Lab File: BN037815.D
Acq: 19 Sep 2025 15:32

**Instrument :**
BNA_N
**ClientSampleId :**
RE117D1-20250910

Tgt Ion:188 Resp: 8978

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 188 | 100 | | |
| 94 | 0.0 | 0.0 | 0.0 |
| 80 | 15.3 | 10.6 | 15.8 |

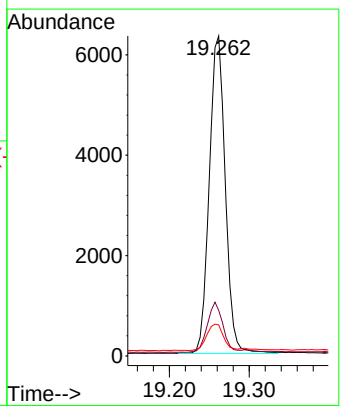


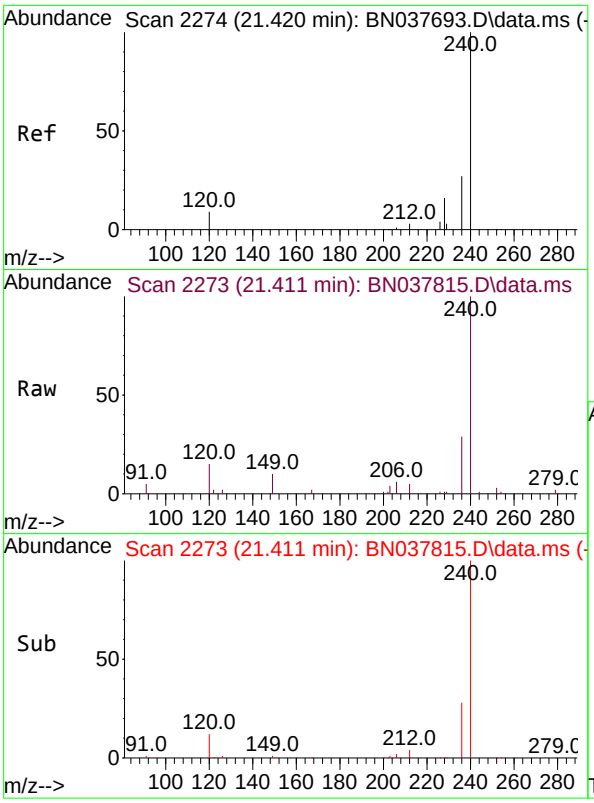




#27
Fluoranthene-d10
Concen: 0.391 ng
RT: 19.262 min Scan# 1956
Delta R.T. -0.009 min
Lab File: BN037815.D
Acq: 19 Sep 2025 15:32

Tgt Ion:212 Resp: 8803

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 212 | 100 | | |
| 106 | 15.3 | 12.2 | 18.2 |
| 104 | 8.7 | 6.9 | 10.3 |



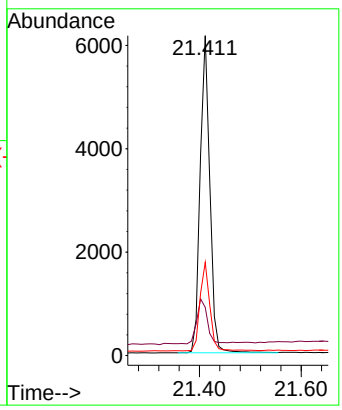


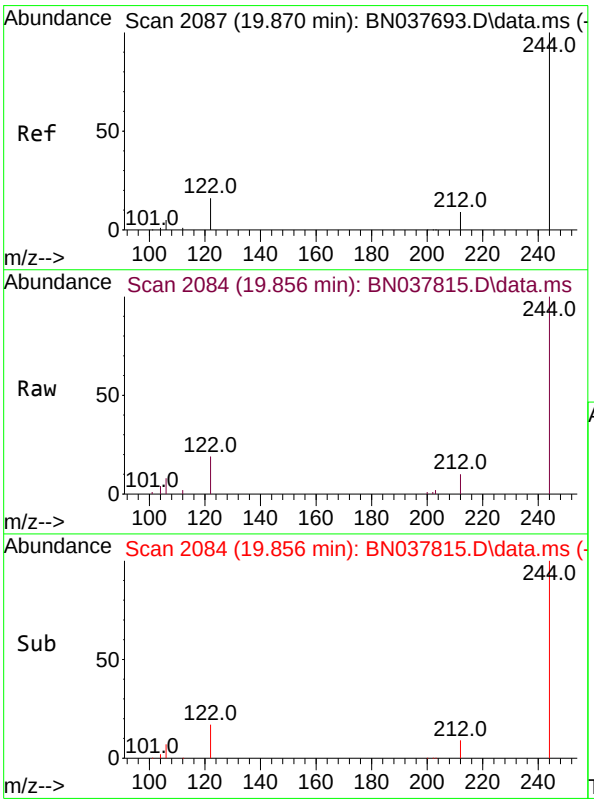

#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.411 min Scan# 2
Delta R.T. -0.009 min
Lab File: BN037815.D
Acq: 19 Sep 2025 15:32

**Instrument :**
BNA_N
**ClientSampleId :**
RE117D1-20250910

Tgt Ion:240 Resp: 8113

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 240 | 100 | | |
| 120 | 15.1 | 9.2 | 13.8# |
| 236 | 29.2 | 22.6 | 33.8 |

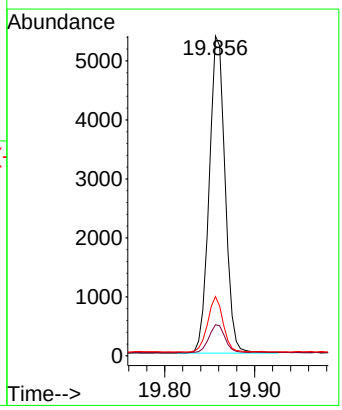


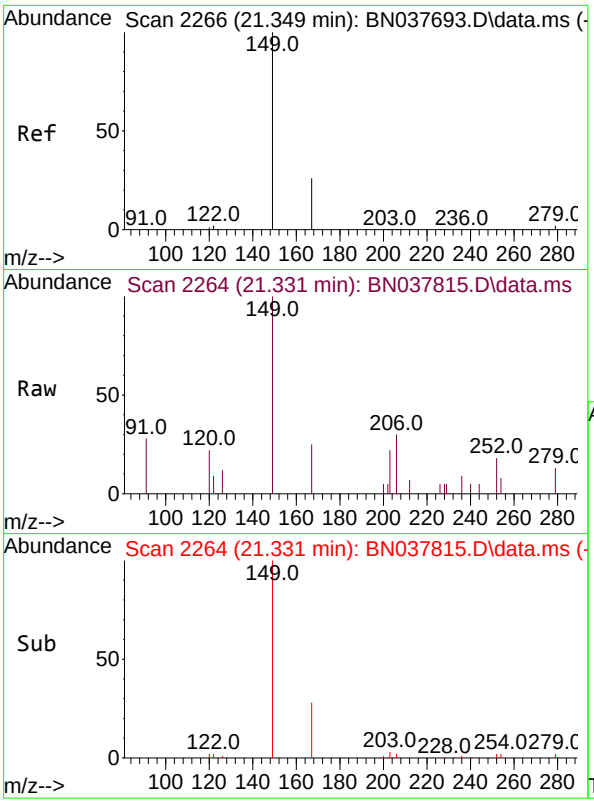




#31
Terphenyl-d14
Concen: 0.402 ng
RT: 19.856 min Scan# 2084
Delta R.T. -0.014 min
Lab File: BN037815.D
Acq: 19 Sep 2025 15:32

Tgt Ion:244 Resp: 6620

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 244 | 100 | | |
| 212 | 9.7 | 7.5 | 11.3 |
| 122 | 18.5 | 13.2 | 19.8 |



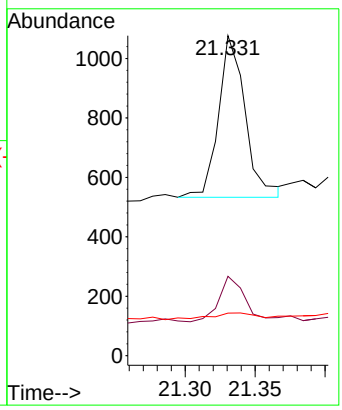


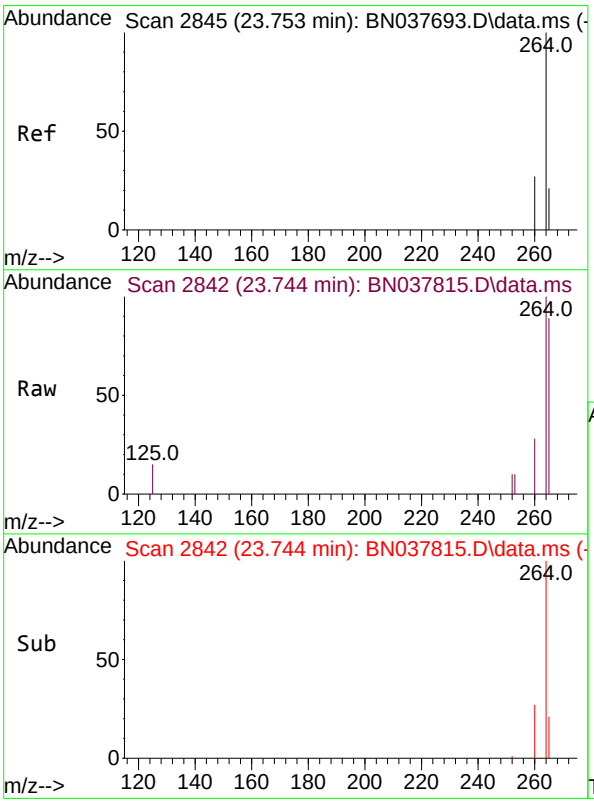

#34
Bis(2-ethylhexyl)phthalate
Concen: 0.086 ng
RT: 21.331 min Scan# 2
Delta R.T. -0.018 min
Lab File: BN037815.D
Acq: 19 Sep 2025 15:32

**Instrument :**
BNA_N
**ClientSampleId :**
RE117D1-20250910

Tgt Ion:149 Resp: 723

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 149 | 100 | | |
| 167 | 29.7 | 20.8 | 31.2 |
| 279 | 7.3 | 3.3 | 4.9# |

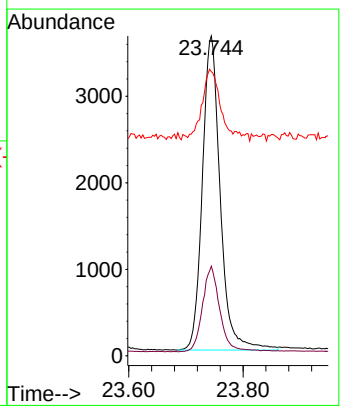



#35
Perylene-d12
Concen: 0.400 ng
RT: 23.744 min Scan# 2842
Delta R.T. -0.009 min
Lab File: BN037815.D
Acq: 19 Sep 2025 15:32

Tgt Ion:264 Resp: 7855

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 264 | 100 | | |
| 260 | 28.0 | 21.8 | 32.8 |
| 265 | 88.8 | 39.4 | 59.2# |



Raw Data: **BN037843.D**

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

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | AECOM Technical Services, Inc. | Date Collected: | 09/10/25 |
| Project: | NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258 | Date Received: | 09/12/25 |
| Client Sample ID: | RE104D3-20250910 | SDG No.: | Q3095 |
| Lab Sample ID: | Q3095-28 | Matrix: | Water |
| Analytical Method: | SW8270ESIM | % Solid: | 0 |
| Sample Wt/Vol: | 1000 Units: mL | Final Vol: | 1000 uL |
| Soil Aliquot Vol: | uL | Test: | SVOC-SIMGroup1 |
| Extraction Type : | Decanted : N | Level : | LOW |
| Injection Volume : | GPC Factor : 1.0 | GPC Cleanup : | N PH : |
| Prep Method : | | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| BN037843.D | 1 | 09/15/25 12:00 | 09/20/25 09:14 | PB169693 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOD | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | | |
| 123-91-1 | 1,4-Dioxane | 0.20 | U | 0.070 | 0.20 | 0.20 | ug/L |
| **SURROGATES** | | | | | | | |
| 7297-45-2 | 2-Methylnaphthalene-d10 | 0.32 | | 30 - 150 | | 80% | SPK: 0.4 |
| 93951-69-0 | Fluoranthene-d10 | 0.36 | | 30 - 150 | | 90% | SPK: 0.4 |
| 4165-60-0 | Nitrobenzene-d5 | 0.38 | | 55 - 111 | | 95% | SPK: 0.4 |
| 321-60-8 | 2-Fluorobiphenyl | 0.38 | | 53 - 106 | | 96% | SPK: 0.4 |
| 1718-51-0 | Terphenyl-d14 | 0.39 | | 58 - 132 | | 98% | SPK: 0.4 |
| **INTERNAL STANDARDS** | | | | | | | |
| 3855-82-1 | 1,4-Dichlorobenzene-d4 | 5580 | 7.825 | | | | |
| 1146-65-2 | Naphthalene-d8 | 14500 | 10.626 | | | | |
| 15067-26-2 | Acenaphthene-d10 | 6030 | 14.484 | | | | |
| 1517-22-2 | Phenanthrene-d10 | 10400 | 17.223 | | | | |
| 1719-03-5 | Chrysene-d12 | 8830 | 21.402 | | | | |
| 1520-96-3 | Perylene-d12 | 32.0 | 23.736 | | | | |

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\BN091925\
Data File : BN037843.D
Acq On : 20 Sep 2025 09:14
Operator : RC/JU
Sample : Q3095-28
Misc :
ALS Vial : 31 Sample Multiplier: 1

**Instrument :**
BNA_N
**ClientSampleId :**
RE104D3-20250910

Quant Time: Sep 22 00:37:04 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN091125.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Sep 11 14:20:01 2025
Response via : Initial Calibration

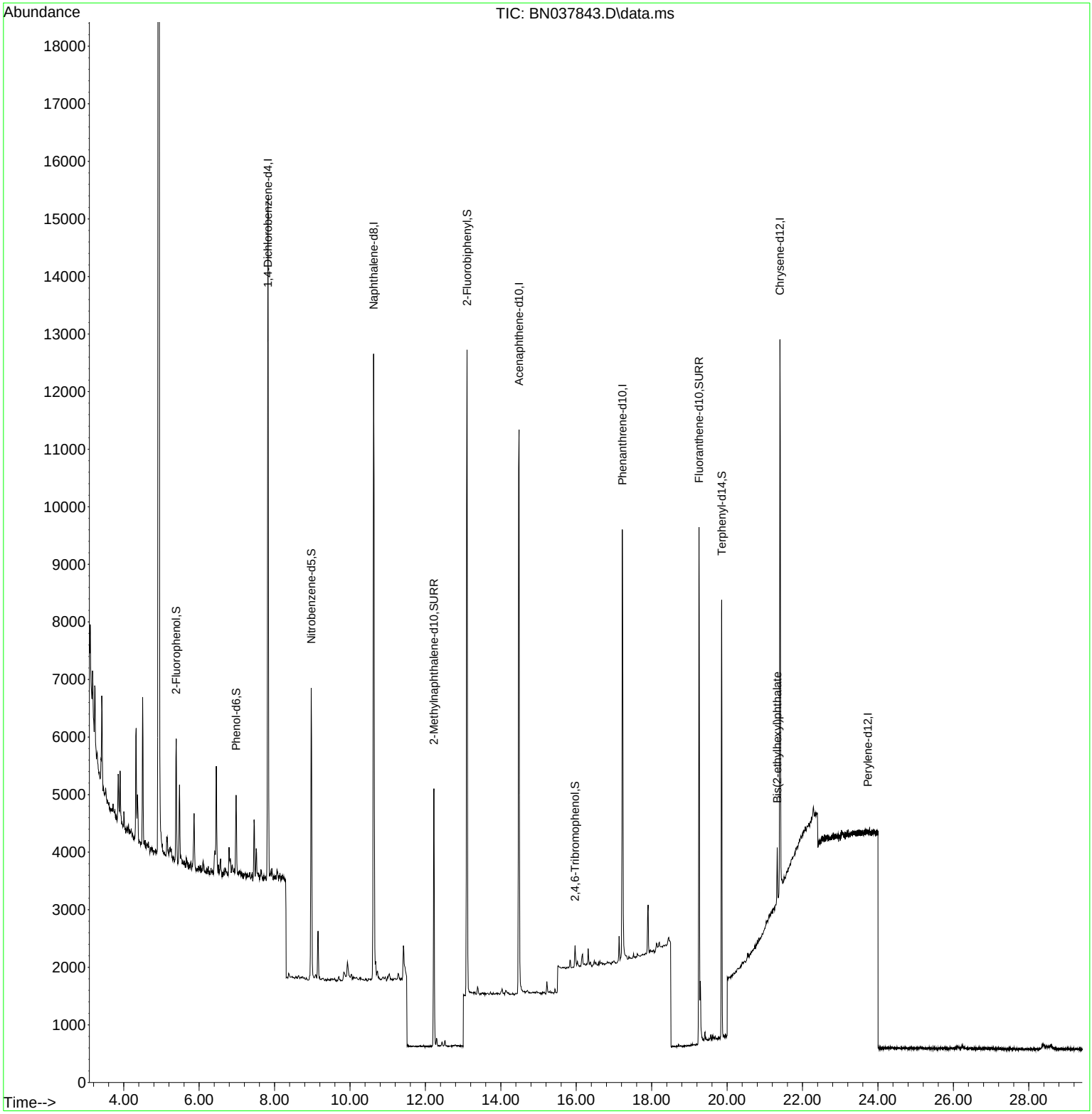
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) 1,4-Dichlorobenzene-d4 | 7.825 | 152 | 5576 | 0.400 | ng | -0.01 |
| 7) Naphthalene-d8 | 10.626 | 136 | 14489 | 0.400 | ng | -0.02 |
| 13) Acenaphthene-d10 | 14.484 | 164 | 6033 | 0.400 | ng | -0.01 |
| 19) Phenanthrene-d10 | 17.223 | 188 | 10379 | 0.400 | ng | -0.01 |
| 29) Chrysene-d12 | 21.402 | 240 | 8825 | 0.400 | ng | #-0.02 |
| 35) Perylene-d12 | 23.736 | 264 | 32 | 0.400 | ng | #-0.02 |
| System Monitoring Compounds | | | | | | |
| 4) 2-Fluorophenol | 5.392 | 112 | 1641 | 0.128 | ng | 0.00 |
| 5) Phenol-d6 | 6.980 | 99 | 1234 | 0.074 | ng | 0.00 |
| 8) Nitrobenzene-d5 | 8.971 | 82 | 4034 | 0.381 | ng | -0.02 |
| 11) 2-Methylnaphthalene-d10 | 12.227 | 152 | 6145 | 0.320 | ng | -0.02 |
| 14) 2,4,6-Tribromophenol | 15.969 | 330 | 247 | 0.157 | ng | -0.01 |
| 15) 2-Fluorobiphenyl | 13.105 | 172 | 9686 | 0.384 | ng | -0.01 |
| 27) Fluoranthene-d10 | 19.257 | 212 | 9444 | 0.362 | ng | -0.01 |
| 31) Terphenyl-d14 | 19.856 | 244 | 6998 | 0.391 | ng | -0.01 |
| Target Compounds | | | | | | Qvalue |
| 34) Bis(2-ethylhexyl)phtha... | 21.331 | 149 | 976 | 0.107 | ng | # 97 |

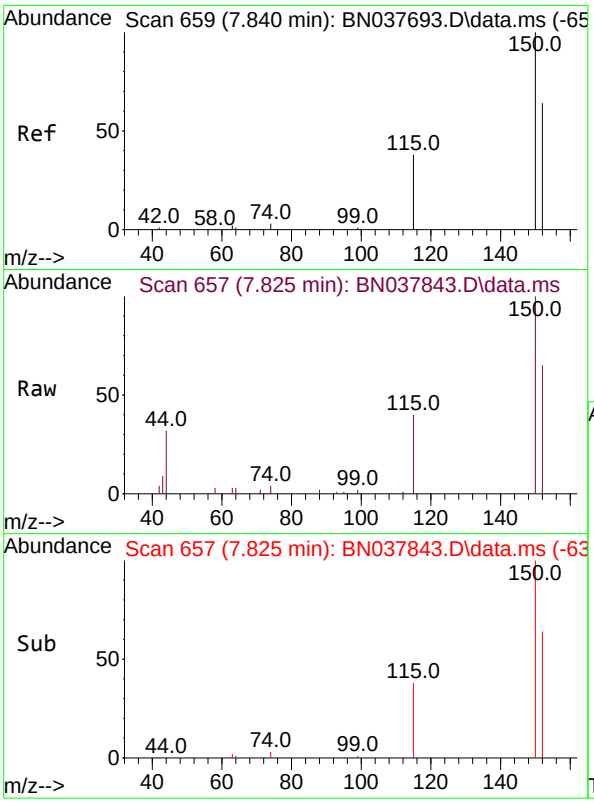
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN091925\
Data File : BN037843.D
Acq On : 20 Sep 2025 09:14
Operator : RC/JU
Sample : Q3095-28
Misc :
ALS Vial : 31 Sample Multiplier: 1

**Instrument :**
BNA_N
**ClientSampleId :**
RE104D3-20250910

Quant Time: Sep 22 00:37:04 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN091125.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Sep 11 14:20:01 2025
Response via : Initial Calibration



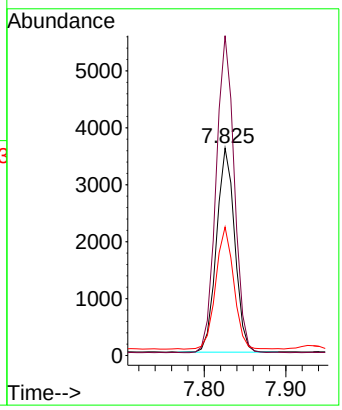


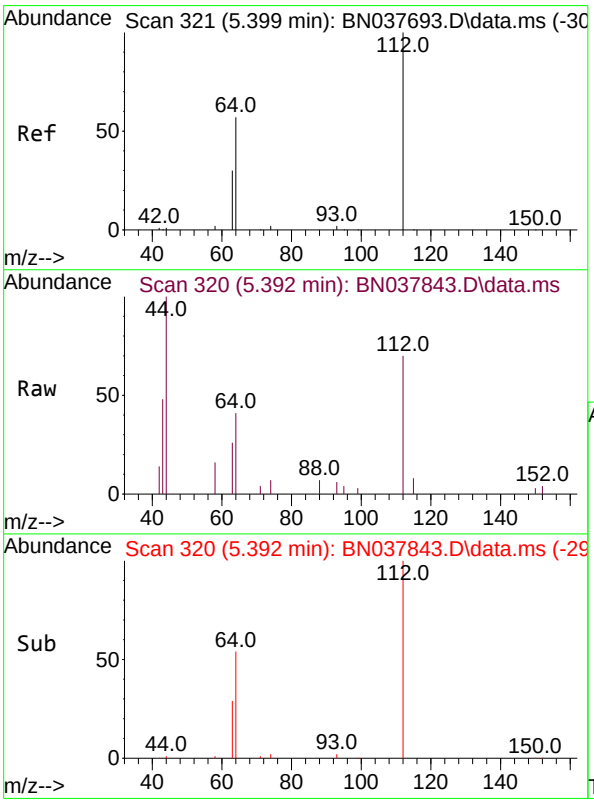

#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.825 min Scan# 6
Delta R.T. -0.015 min
Lab File: BN037843.D
Acq: 20 Sep 2025 09:14

**Instrument :**
BNA_N
**ClientSampleId :**
RE104D3-20250910

Tgt Ion:152 Resp: 5576

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 150 | 154.2 | 124.5 | 186.7 |
| 115 | 62.0 | 49.2 | 73.8 |

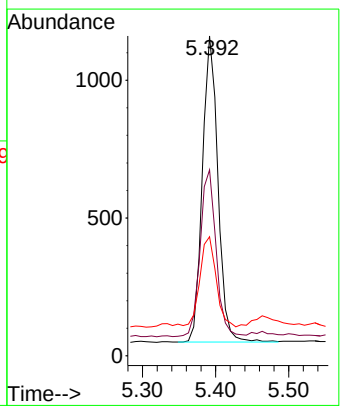


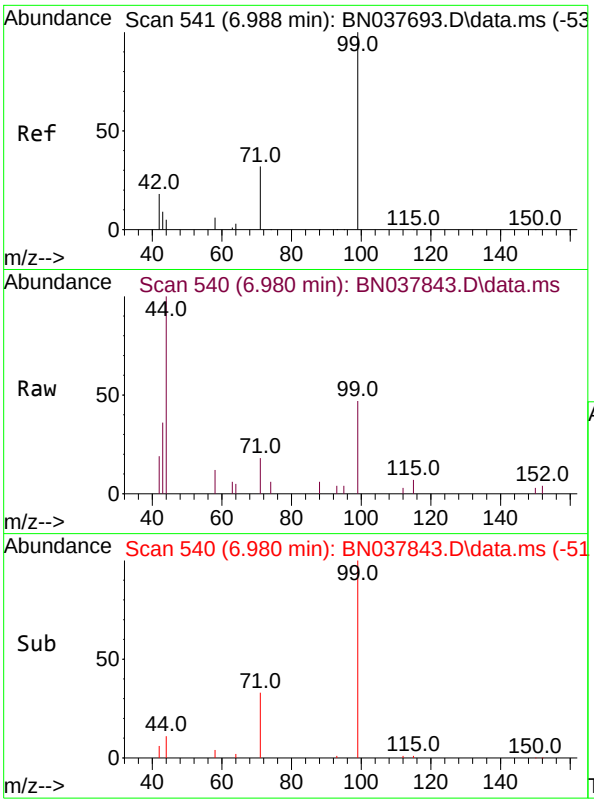




#4
2-Fluorophenol
Concen: 0.128 ng
RT: 5.392 min Scan# 320
Delta R.T. -0.007 min
Lab File: BN037843.D
Acq: 20 Sep 2025 09:14

Tgt Ion:112 Resp: 1641

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 112 | 100 | | |
| 64 | 55.9 | 44.9 | 67.3 |
| 63 | 30.8 | 24.7 | 37.1 |



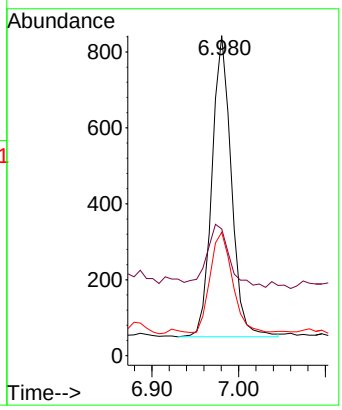


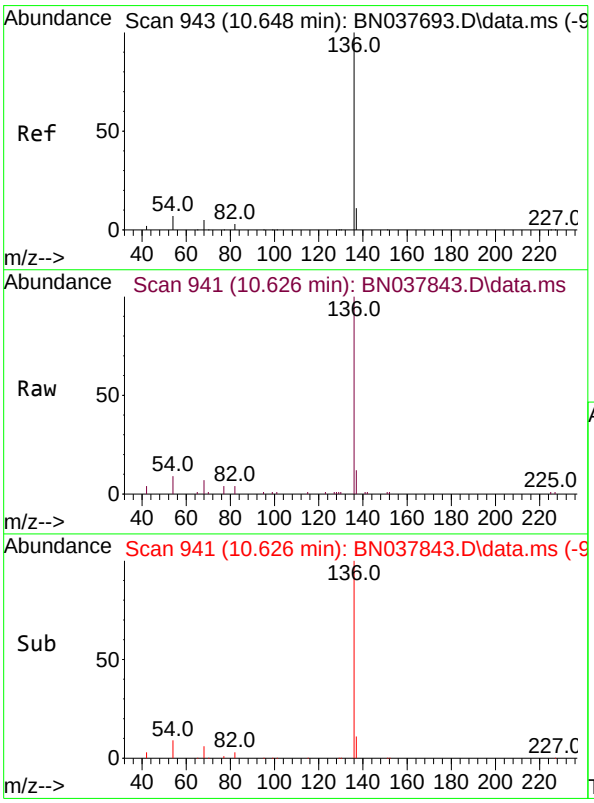

#5
Phenol-d6
Concen: 0.074 ng
RT: 6.980 min Scan# 54
Delta R.T. -0.007 min
Lab File: BN037843.D
Acq: 20 Sep 2025 09:14

**Instrument :**
BNA_N
**ClientSampleId :**
RE104D3-20250910

Tgt Ion: 99 Resp: 1234

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 99 | 100 | | |
| 42 | 24.6 | 16.6 | 24.8 |
| 71 | 38.9 | 26.7 | 40.1 |

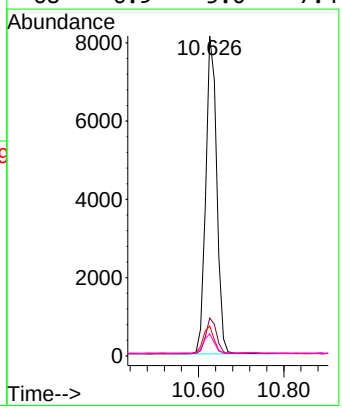


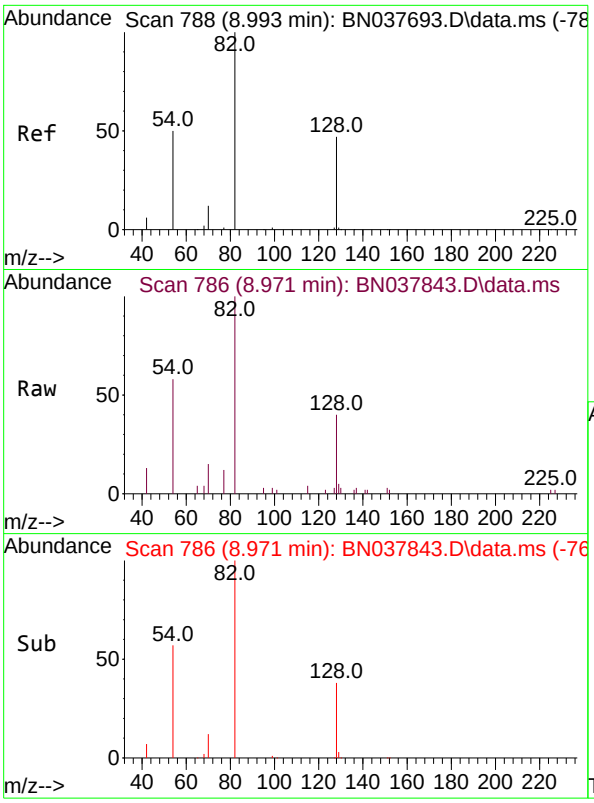




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.626 min Scan# 941
Delta R.T. -0.021 min
Lab File: BN037843.D
Acq: 20 Sep 2025 09:14

Tgt Ion:136 Resp: 14489

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 136 | 100 | | |
| 137 | 11.8 | 9.1 | 13.7 |
| 54 | 9.3 | 6.3 | 9.5 |
| 68 | 6.9 | 5.0 | 7.4 |



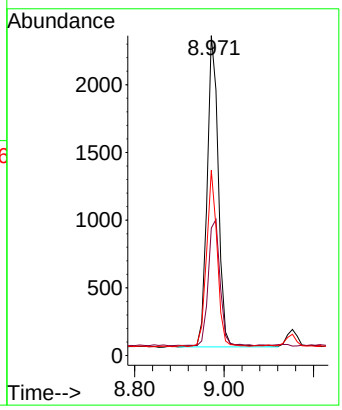


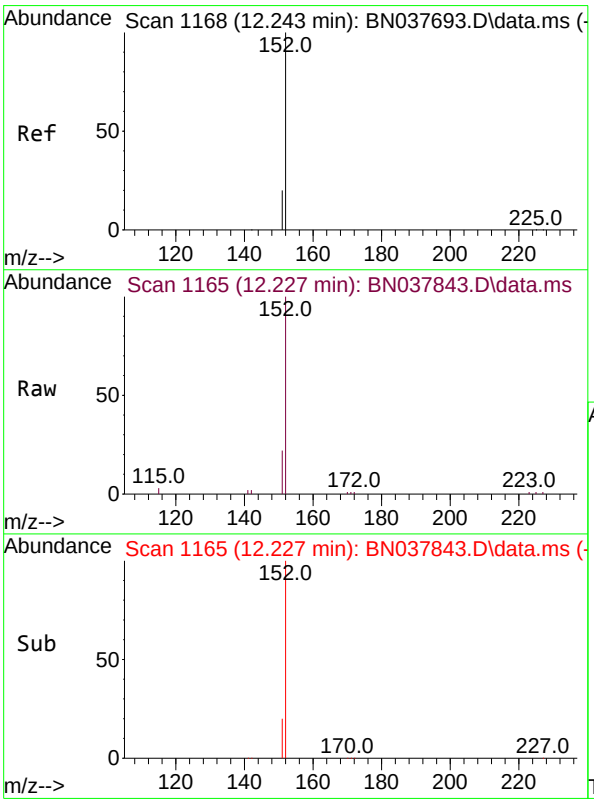

#8
Nitrobenzene-d5
Concen: 0.381 ng
RT: 8.971 min Scan# 78
Delta R.T. -0.021 min
Lab File: BN037843.D
Acq: 20 Sep 2025 09:14

**Instrument :**
BNA_N
**ClientSampleId :**
RE104D3-20250910

Tgt Ion: 82 Resp: 4034

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 82 | 100 | | |
| 128 | 39.9 | 38.3 | 57.5 |
| 54 | 57.9 | 41.4 | 62.2 |

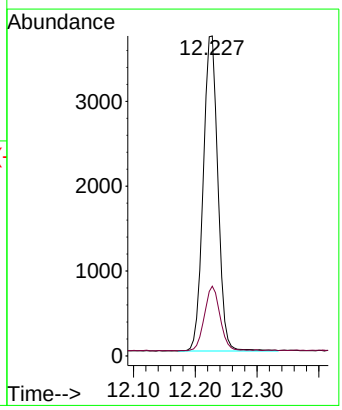


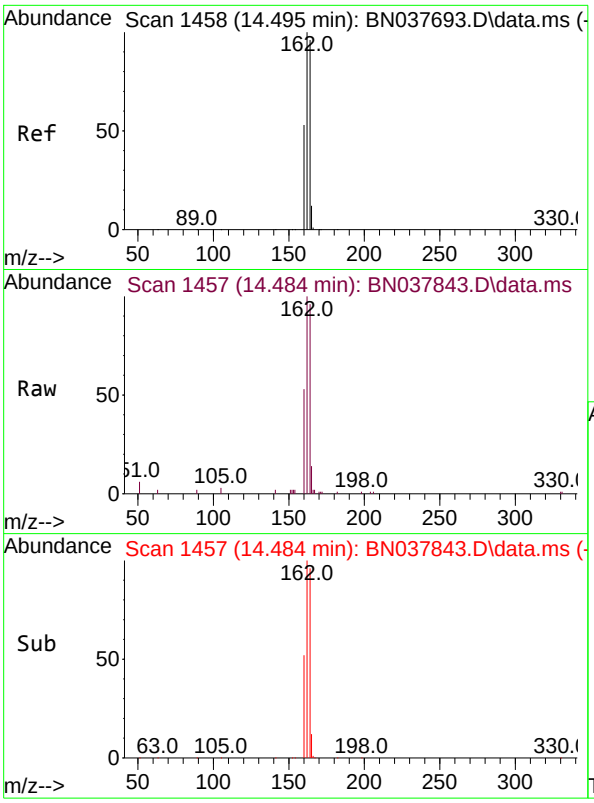




#11
2-Methylnaphthalene-d10
Concen: 0.320 ng
RT: 12.227 min Scan# 1165
Delta R.T. -0.015 min
Lab File: BN037843.D
Acq: 20 Sep 2025 09:14

Tgt Ion:152 Resp: 6145

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



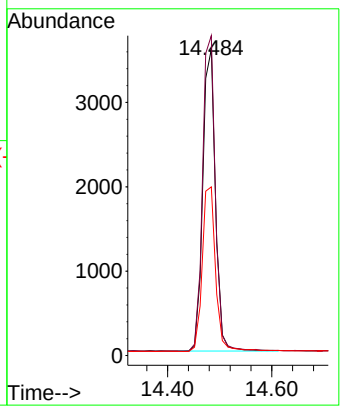


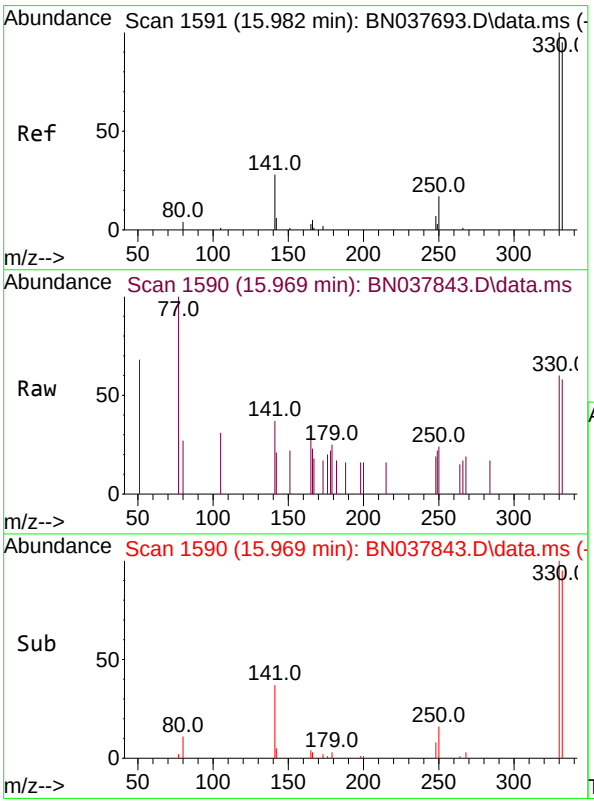

#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.484 min Scan# 14
Delta R.T. -0.011 min
Lab File: BN037843.D
Acq: 20 Sep 2025 09:14

**Instrument :**
BNA_N
**ClientSampleId :**
RE104D3-20250910

Tgt Ion:164 Resp: 6033

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 164 | 100 | | |
| 162 | 104.5 | 83.1 | 124.7 |
| 160 | 55.1 | 44.3 | 66.5 |

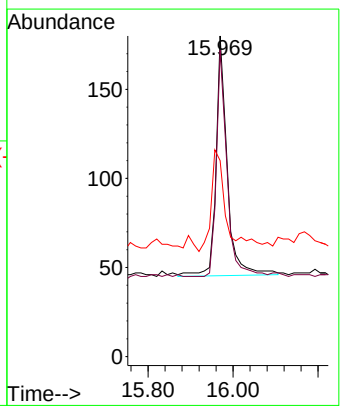


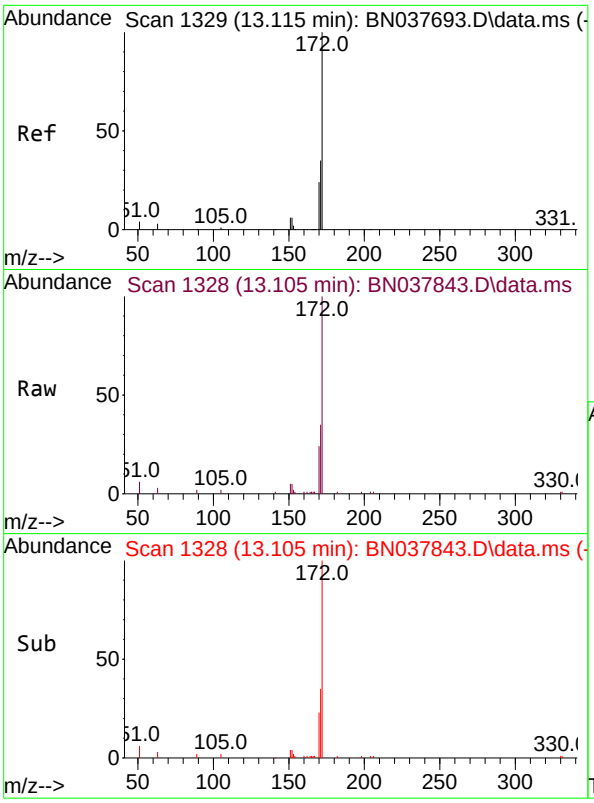




#14
2,4,6-Tribromophenol
Concen: 0.157 ng
RT: 15.969 min Scan# 1590
Delta R.T. -0.013 min
Lab File: BN037843.D
Acq: 20 Sep 2025 09:14

Tgt Ion:330 Resp: 247

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 330 | 100 | | |
| 332 | 88.7 | 75.3 | 112.9 |
| 141 | 48.2 | 35.0 | 52.4 |



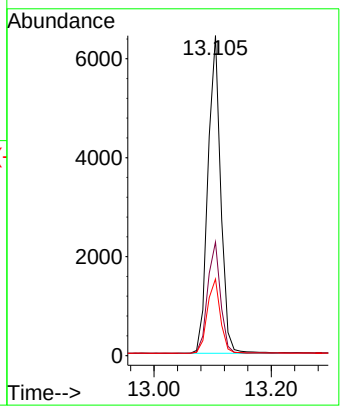


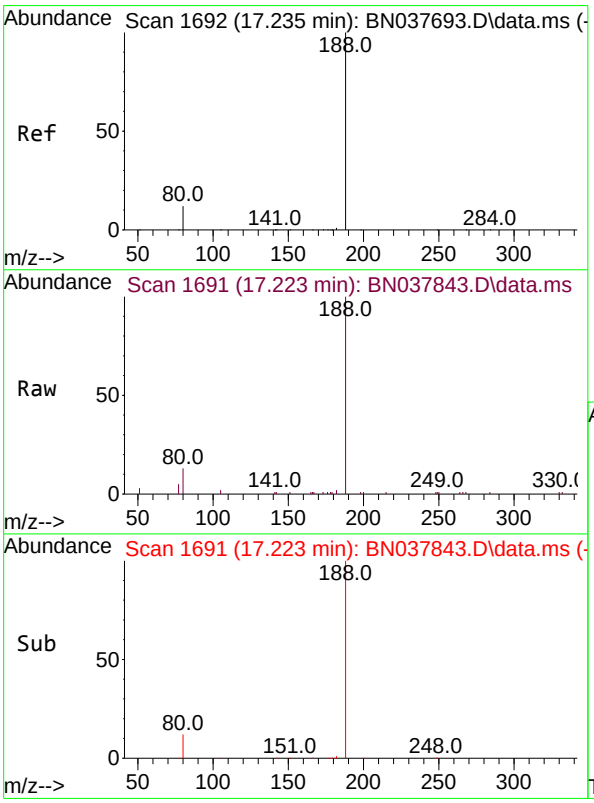

#15
2-Fluorobiphenyl
Concen: 0.384 ng
RT: 13.105 min Scan# 1
Delta R.T. -0.011 min
Lab File: BN037843.D
Acq: 20 Sep 2025 09:14

**Instrument :**
BNA_N
**ClientSampleId :**
RE104D3-20250910

Tgt Ion:172 Resp: 9686

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 172 | 100 | | |
| 171 | 35.5 | 28.6 | 43.0 |
| 170 | 23.9 | 19.8 | 29.8 |

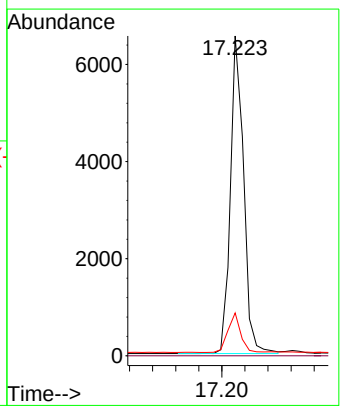


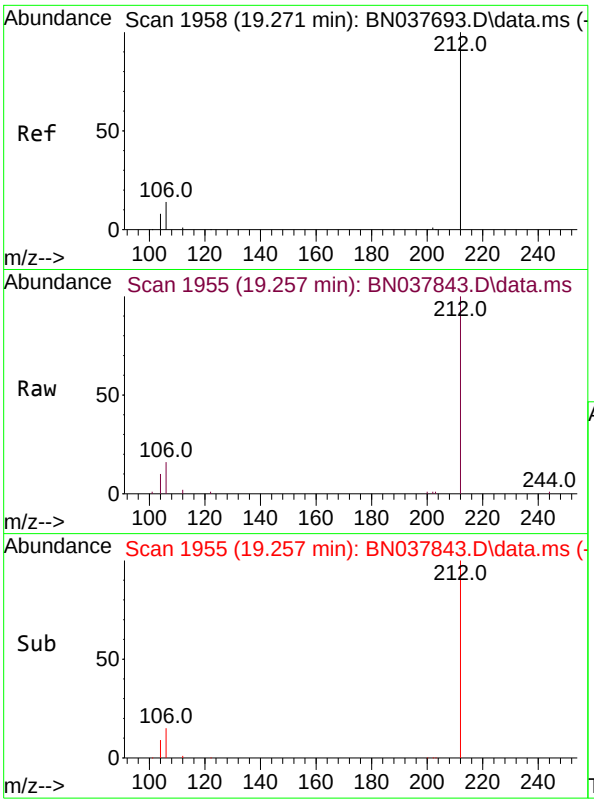




#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.223 min Scan# 1691
Delta R.T. -0.013 min
Lab File: BN037843.D
Acq: 20 Sep 2025 09:14

Tgt Ion:188 Resp: 10379

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 188 | 100 | | |
| 94 | 0.0 | 0.0 | 0.0 |
| 80 | 13.4 | 10.6 | 15.8 |



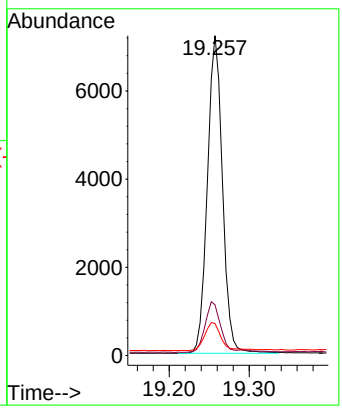


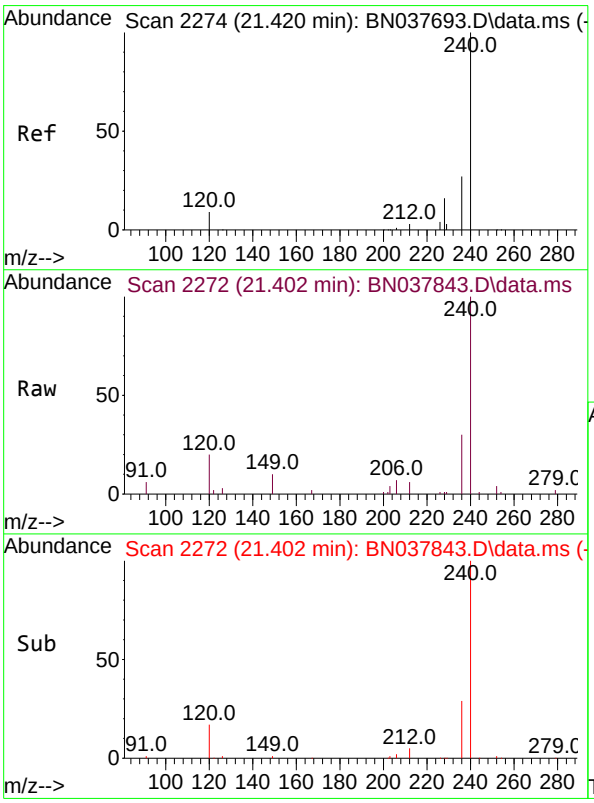

#27
Fluoranthene-d10
Concen: 0.362 ng
RT: 19.257 min Scan# 19
Delta R.T. -0.014 min
Lab File: BN037843.D
Acq: 20 Sep 2025 09:14

**Instrument :**
BNA_N
**ClientSampleId :**
RE104D3-20250910

Tgt Ion:212 Resp: 9444

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 212 | 100 | | |
| 106 | 16.3 | 12.2 | 18.2 |
| 104 | 9.8 | 6.9 | 10.3 |

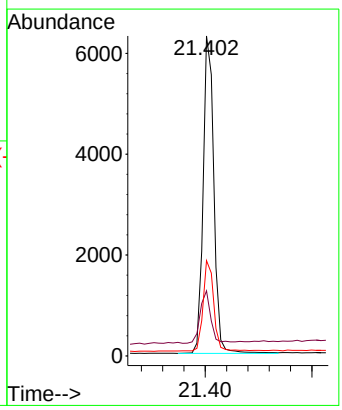


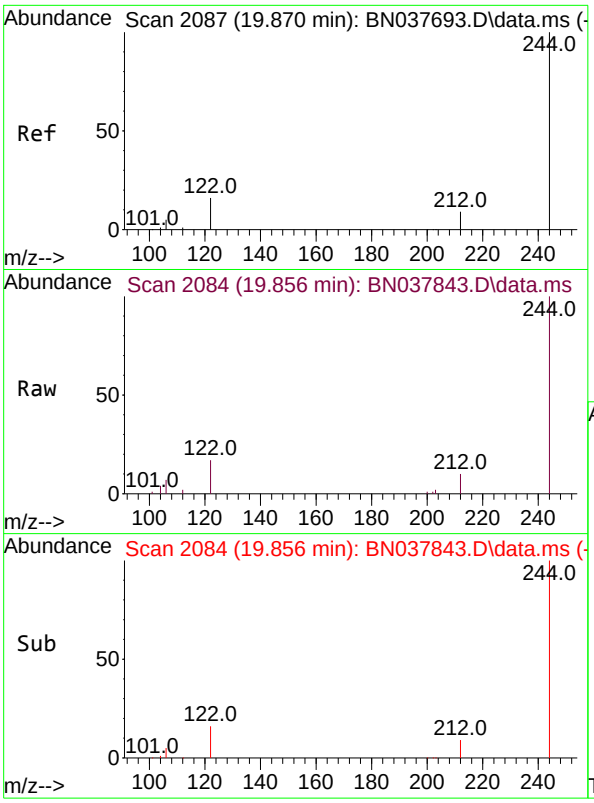




#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.402 min Scan# 2272
Delta R.T. -0.018 min
Lab File: BN037843.D
Acq: 20 Sep 2025 09:14

Tgt Ion:240 Resp: 8825

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 240 | 100 | | |
| 120 | 20.3 | 9.2 | 13.8# |
| 236 | 29.8 | 22.6 | 33.8 |



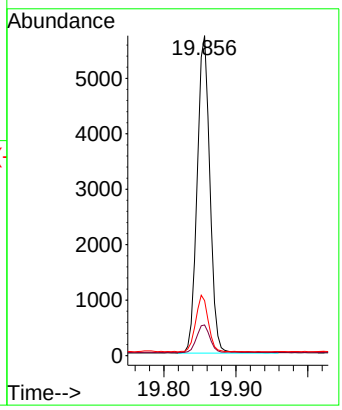


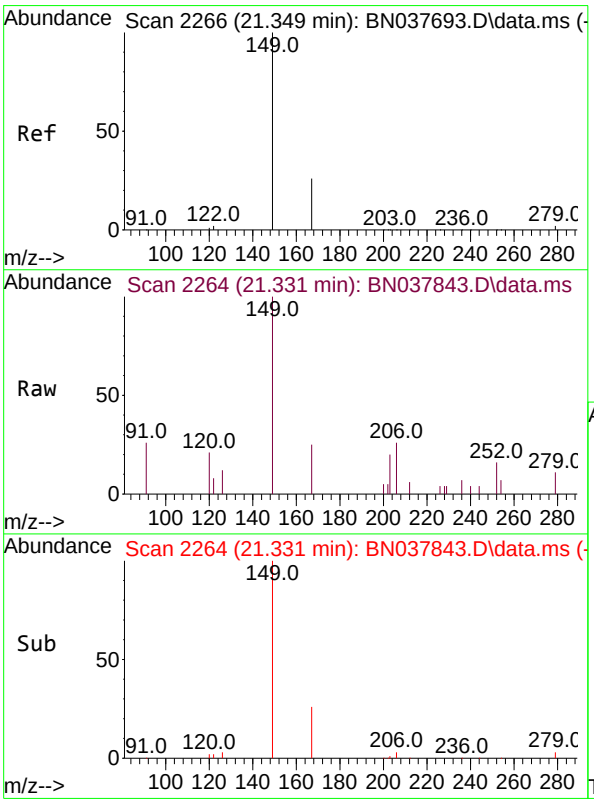

#31
Terphenyl-d14
Concen: 0.391 ng
RT: 19.856 min Scan# 20
Delta R.T. -0.014 min
Lab File: BN037843.D
Acq: 20 Sep 2025 09:14

**Instrument :**
BNA_N
**ClientSampleId :**
RE104D3-20250910

Tgt Ion:244 Resp: 6998

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 244 | 100 | | |
| 212 | 9.6 | 7.5 | 11.3 |
| 122 | 17.2 | 13.2 | 19.8 |

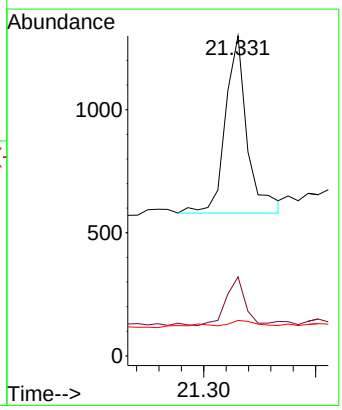


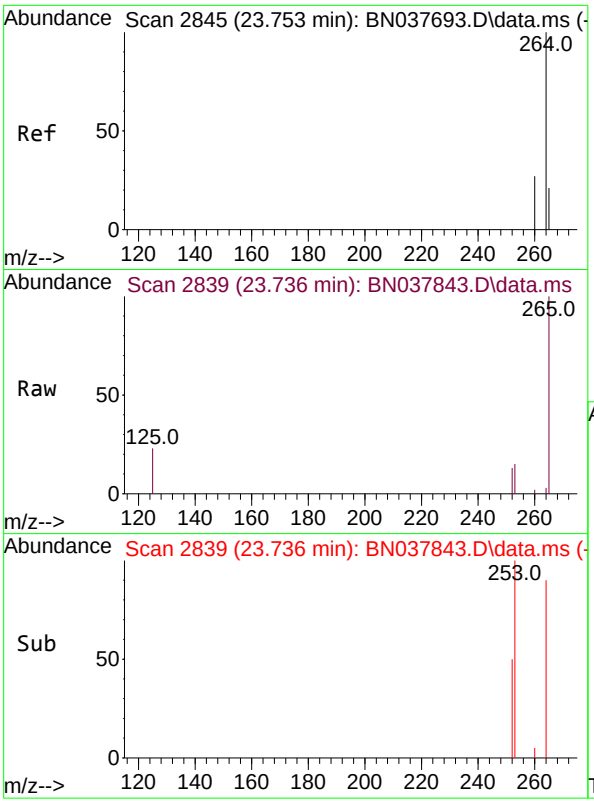




#34
Bis(2-ethylhexyl)phthalate
Concen: 0.107 ng
RT: 21.331 min Scan# 2264
Delta R.T. -0.018 min
Lab File: BN037843.D
Acq: 20 Sep 2025 09:14

Tgt Ion:149 Resp: 976

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 149 | 100 | | |
| 167 | 24.2 | 20.8 | 31.2 |
| 279 | 3.2 | 3.3 | 4.9# |



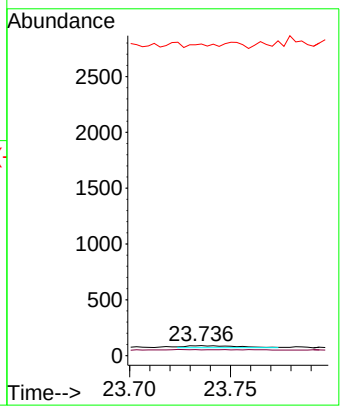



#35
Perylene-d12
Concen: 0.400 ng
RT: 23.736 min Scan# 28
Delta R.T. -0.018 min
Lab File: BN037843.D
Acq: 20 Sep 2025 09:14

**Instrument :**
BNA_N
**ClientSampleId :**
RE104D3-20250910

Tgt Ion:264 Resp: 32

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 264 | 100 | | |
| 260 | 57.3 | 21.8 | 32.8# |
| 265 | 3137.1 | 39.4 | 59.2# |



Raw Data: **BN037797.D**

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

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | AECOM Technical Services, Inc. | Date Collected: | 09/10/25 |
| Project: | NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258 | Date Received: | 09/12/25 |
| Client Sample ID: | RE122D2-20250910 | SDG No.: | Q3095 |
| Lab Sample ID: | Q3095-29 | Matrix: | Water |
| Analytical Method: | SW8270ESIM | % Solid: | 0 |
| Sample Wt/Vol: | 980 Units: mL | Final Vol: | 1000 uL |
| Soil Aliquot Vol: | uL | Test: | SVOC-SIMGroup1 |
| Extraction Type : | Decanted : N | Level : | LOW |
| Injection Volume : | GPC Factor : 1.0 | GPC Cleanup : | N PH : |
| Prep Method : | | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| BN037797.D | 1 | 09/15/25 12:00 | 09/19/25 04:00 | PB169693 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOD | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | | |
| 123-91-1 | 1,4-Dioxane | 3.80 | | 0.070 | 0.20 | 0.20 | ug/L |
| **SURROGATES** | | | | | | | |
| 7297-45-2 | 2-Methylnaphthalene-d10 | 0.35 | | 30 - 150 | | 87% | SPK: 0.4 |
| 93951-69-0 | Fluoranthene-d10 | 0.36 | | 30 - 150 | | 90% | SPK: 0.4 |
| 4165-60-0 | Nitrobenzene-d5 | 0.39 | | 55 - 111 | | 98% | SPK: 0.4 |
| 321-60-8 | 2-Fluorobiphenyl | 0.41 | | 53 - 106 | | 101% | SPK: 0.4 |
| 1718-51-0 | Terphenyl-d14 | 0.39 | | 58 - 132 | | 98% | SPK: 0.4 |
| **INTERNAL STANDARDS** | | | | | | | |
| 3855-82-1 | 1,4-Dichlorobenzene-d4 | 6380 | 7.833 | | | | |
| 1146-65-2 | Naphthalene-d8 | 15400 | 10.637 | | | | |
| 15067-26-2 | Acenaphthene-d10 | 6530 | 14.484 | | | | |
| 1517-22-2 | Phenanthrene-d10 | 11200 | 17.236 | | | | |
| 1719-03-5 | Chrysene-d12 | 9480 | 21.411 | | | | |
| 1520-96-3 | Perylene-d12 | 9340 | 23.742 | | | | |

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\BN091825\
Data File : BN037797.D
Acq On : 19 Sep 2025 04:00
Operator : RC/JU
Sample : Q3095-29
Misc :
ALS Vial : 22 Sample Multiplier: 1

**Instrument :**
BNA_N
**ClientSampleId :**
RE122D2-20250910

Quant Time: Sep 19 04:36:24 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN091125.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Sep 11 14:20:01 2025
Response via : Initial Calibration

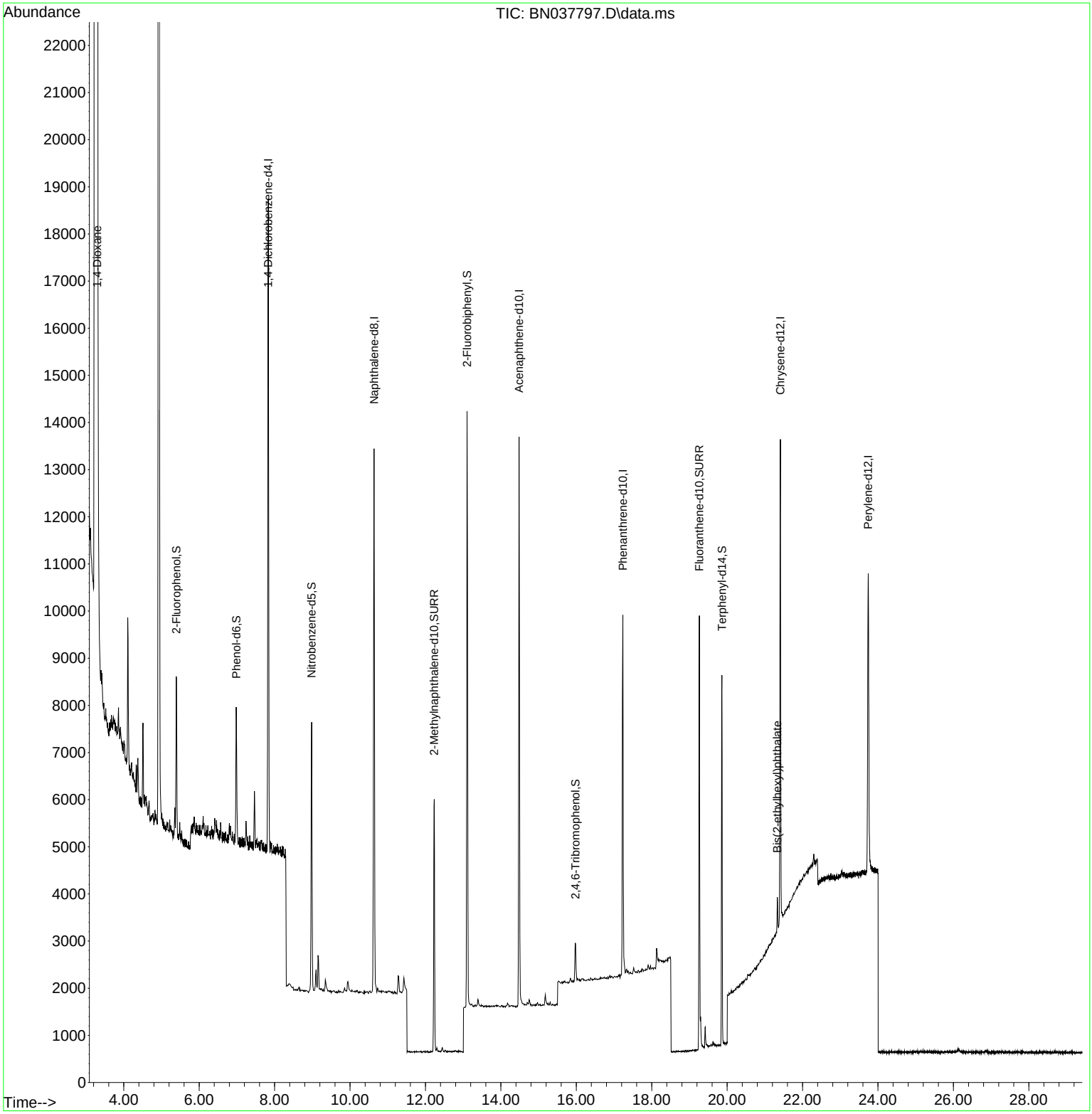
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) 1,4-Dichlorobenzene-d4 | 7.833 | 152 | 6378 | 0.400 | ng | 0.00 |
| 7) Naphthalene-d8 | 10.637 | 136 | 15422 | 0.400 | ng | -0.01 |
| 13) Acenaphthene-d10 | 14.484 | 164 | 6530 | 0.400 | ng | -0.01 |
| 19) Phenanthrene-d10 | 17.236 | 188 | 11243 | 0.400 | ng | # 0.00 |
| 29) Chrysene-d12 | 21.411 | 240 | 9477 | 0.400 | ng | 0.00 |
| 35) Perylene-d12 | 23.742 | 264 | 9344 | 0.400 | ng | #-0.01 |
| System Monitoring Compounds | | | | | | |
| 4) 2-Fluorophenol | 5.399 | 112 | 2888 | 0.197 | ng | 0.00 |
| 5) Phenol-d6 | 6.988 | 99 | 2589 | 0.136 | ng | 0.00 |
| 8) Nitrobenzene-d5 | 8.982 | 82 | 4432 | 0.393 | ng | -0.01 |
| 11) 2-Methylnaphthalene-d10 | 12.233 | 152 | 7126 | 0.349 | ng | -0.01 |
| 14) 2,4,6-Tribromophenol | 15.982 | 330 | 620 | 0.364 | ng | 0.00 |
| 15) 2-Fluorobiphenyl | 13.105 | 172 | 11049 | 0.405 | ng | -0.01 |
| 27) Fluoranthene-d10 | 19.262 | 212 | 10127 | 0.359 | ng | 0.00 |
| 31) Terphenyl-d14 | 19.861 | 244 | 7545 | 0.392 | ng | 0.00 |
| Target Compounds | | | | | | Qvalue |
| 2) 1,4-Dioxane | 3.297 | 88 | 24520 | 3.691 | ng | 95 |
| 34) Bis(2-ethylhexyl)phtha... | 21.331 | 149 | 849 | 0.087 | ng | # 96 |

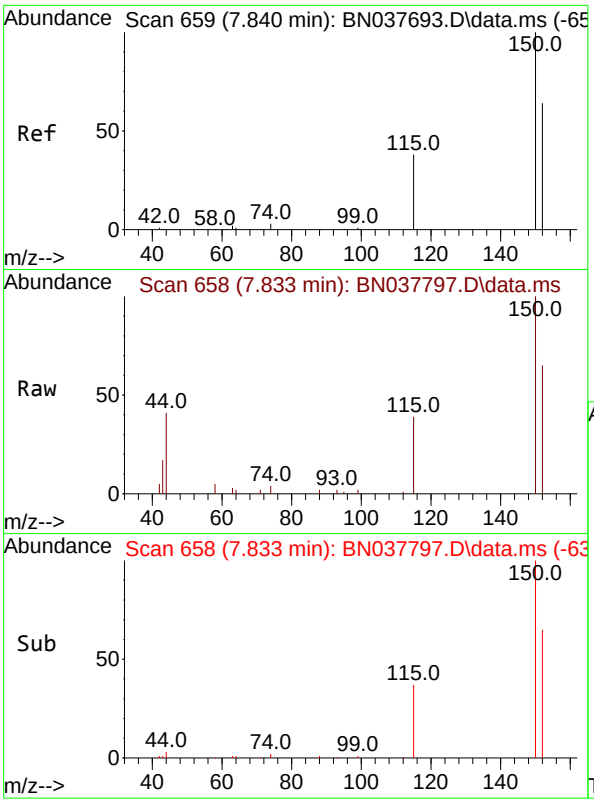
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN091825\
Data File : BN037797.D
Acq On : 19 Sep 2025 04:00
Operator : RC/JU
Sample : Q3095-29
Misc :
ALS Vial : 22 Sample Multiplier: 1

**Instrument :**
BNA_N
**ClientSampleId :**
RE122D2-20250910

Quant Time: Sep 19 04:36:24 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN091125.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Sep 11 14:20:01 2025
Response via : Initial Calibration



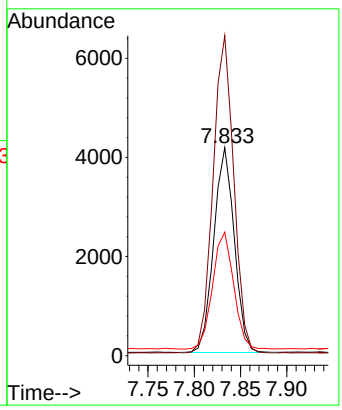


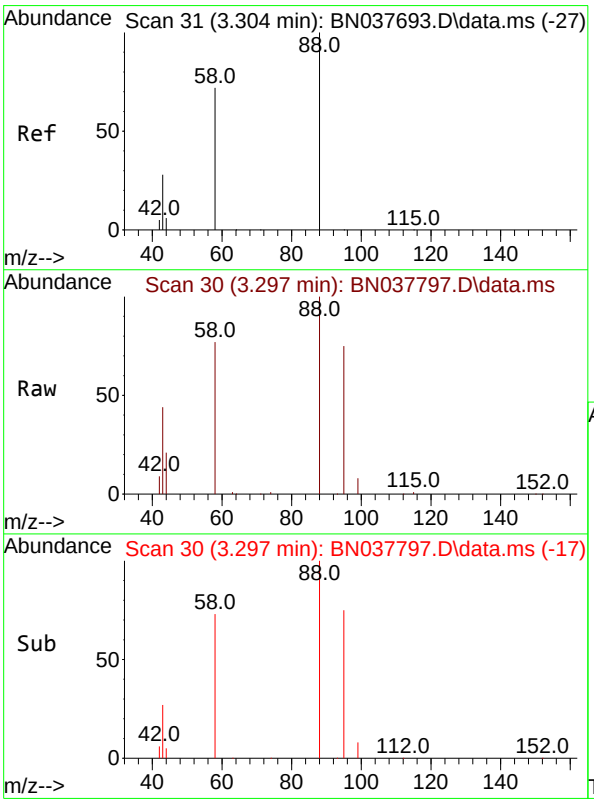

#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.833 min Scan# 6
Delta R.T. -0.007 min
Lab File: BN037797.D
Acq: 19 Sep 2025 04:00

**Instrument :**
BNA_N
**ClientSampleId :**
RE122D2-20250910

Tgt Ion:152 Resp: 6378

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 150 | 153.8 | 124.5 | 186.7 |
| 115 | 59.4 | 49.2 | 73.8 |

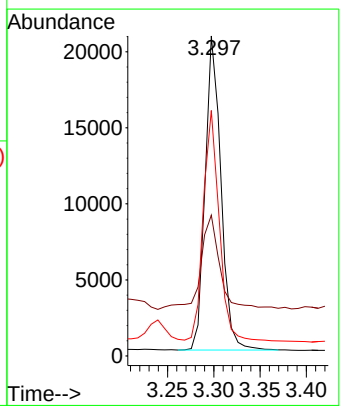


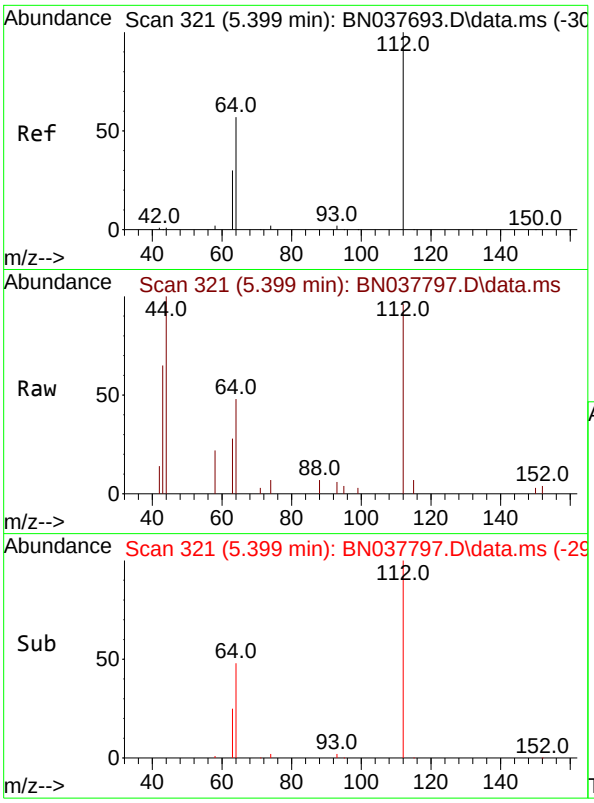




#2
1,4-Dioxane
Concen: 3.691 ng
RT: 3.297 min Scan# 30
Delta R.T. -0.007 min
Lab File: BN037797.D
Acq: 19 Sep 2025 04:00

Tgt Ion: 88 Resp: 24520

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 88 | 100 | | |
| 43 | 36.5 | 26.8 | 40.2 |
| 58 | 73.3 | 61.9 | 92.9 |



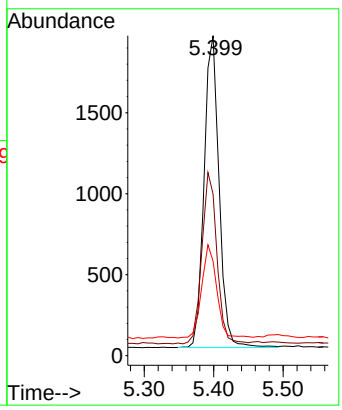


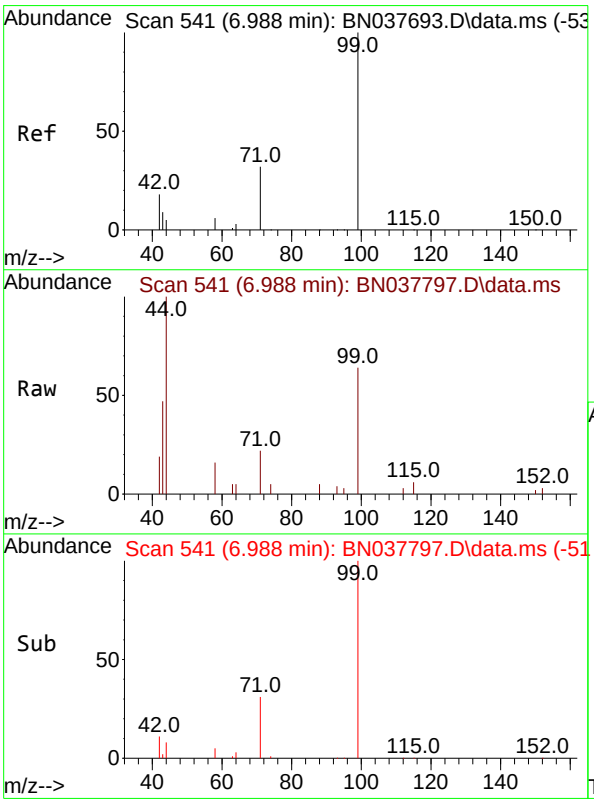

#4
2-Fluorophenol
Concen: 0.197 ng
RT: 5.399 min Scan# 3
Delta R.T. 0.000 min
Lab File: BN037797.D
Acq: 19 Sep 2025 04:00

**Instrument :**
BNA_N
**ClientSampleId :**
RE122D2-20250910

Tgt Ion:112 Resp: 2888

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 112 | 100 | | |
| 64 | 55.1 | 44.9 | 67.3 |
| 63 | 30.0 | 24.7 | 37.1 |

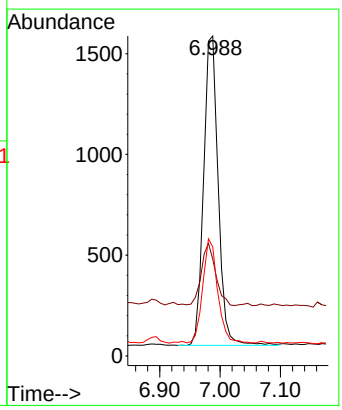


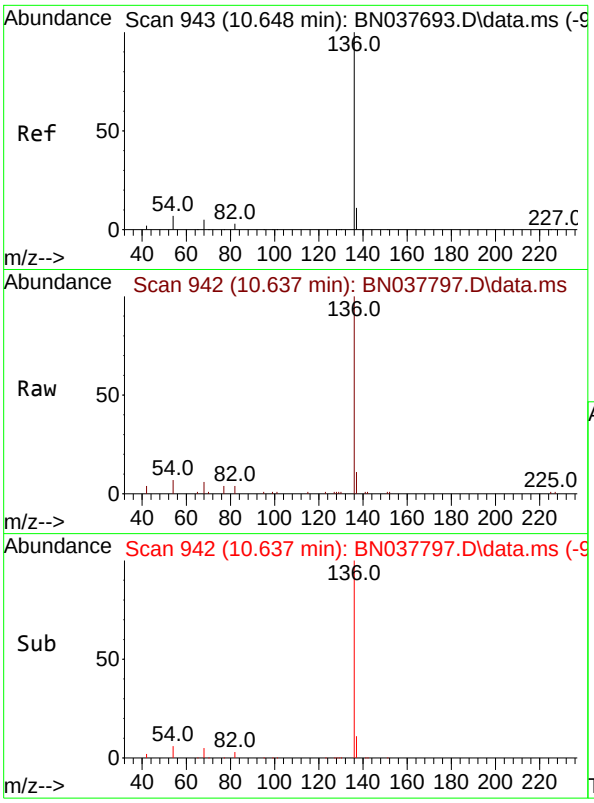




#5
Phenol-d6
Concen: 0.136 ng
RT: 6.988 min Scan# 541
Delta R.T. 0.000 min
Lab File: BN037797.D
Acq: 19 Sep 2025 04:00

Tgt Ion: 99 Resp: 2589

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 99 | 100 | | |
| 42 | 19.5 | 16.6 | 24.8 |
| 71 | 34.9 | 26.7 | 40.1 |



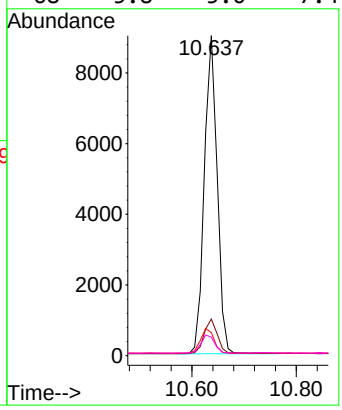


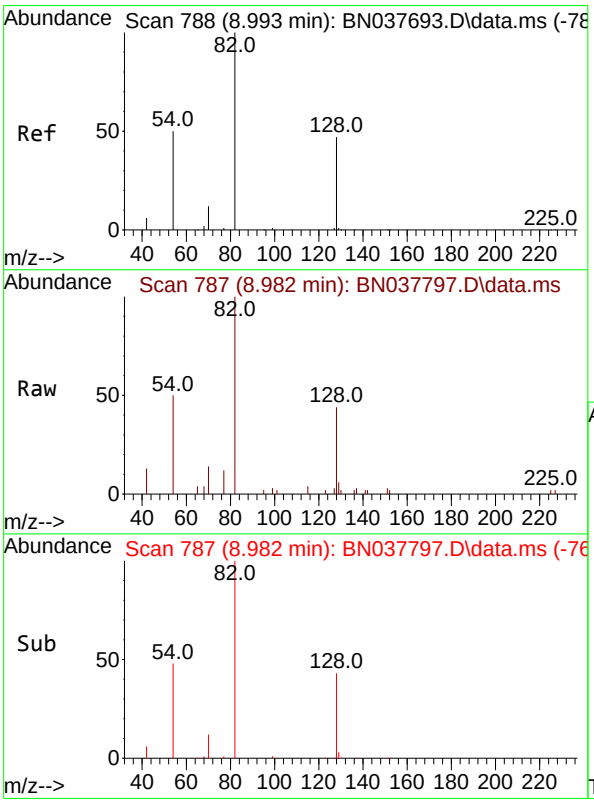

#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.637 min Scan# 94
Delta R.T. -0.011 min
Lab File: BN037797.D
Acq: 19 Sep 2025 04:00

**Instrument :**
BNA_N
**ClientSampleId :**
RE122D2-20250910

Tgt Ion:136 Resp: 15422

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 136 | 100 | | |
| 137 | 11.5 | 9.1 | 13.7 |
| 54 | 7.2 | 6.3 | 9.5 |
| 68 | 5.8 | 5.0 | 7.4 |

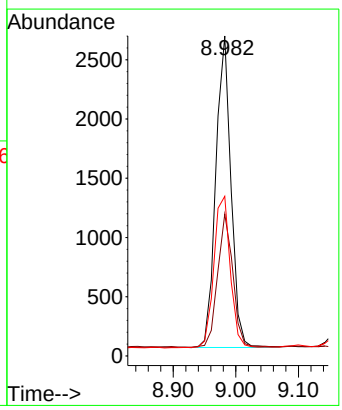


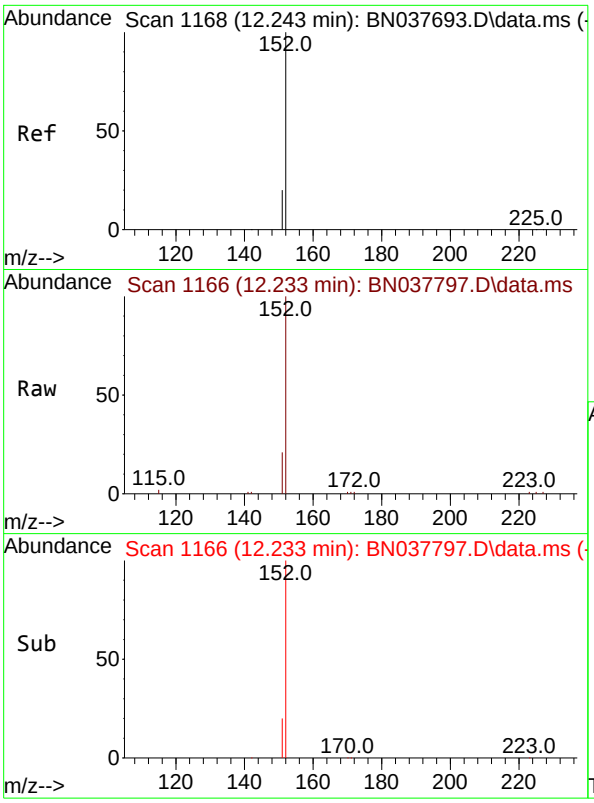




#8
Nitrobenzene-d5
Concen: 0.393 ng
RT: 8.982 min Scan# 787
Delta R.T. -0.011 min
Lab File: BN037797.D
Acq: 19 Sep 2025 04:00

Tgt Ion: 82 Resp: 4432

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 82 | 100 | | |
| 128 | 44.4 | 38.3 | 57.5 |
| 54 | 49.9 | 41.4 | 62.2 |



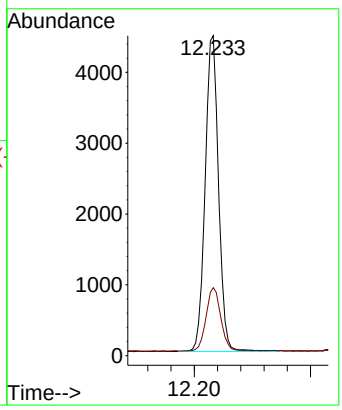


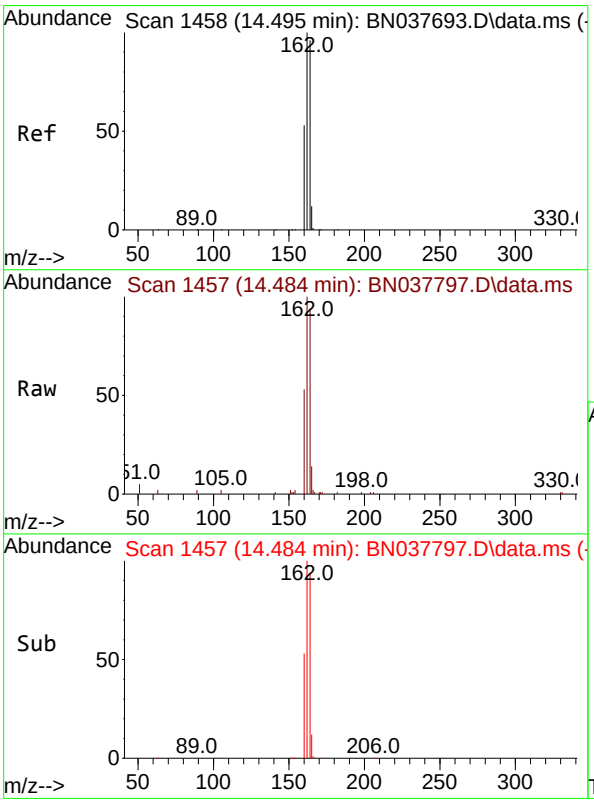

#11
2-Methylnaphthalene-d10
Concen: 0.349 ng
RT: 12.233 min Scan# 11
Delta R.T. -0.010 min
Lab File: BN037797.D
Acq: 19 Sep 2025 04:00

**Instrument :**
BNA_N
**ClientSampleId :**
RE122D2-20250910

Tgt Ion:152 Resp: 7126

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 151 | 22.1 | 17.0 | 25.6 |

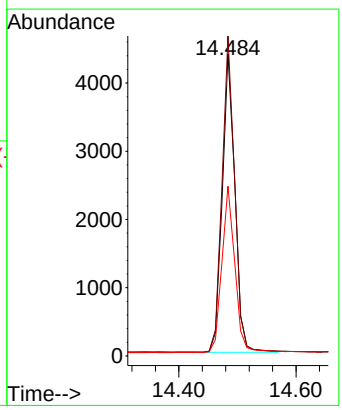


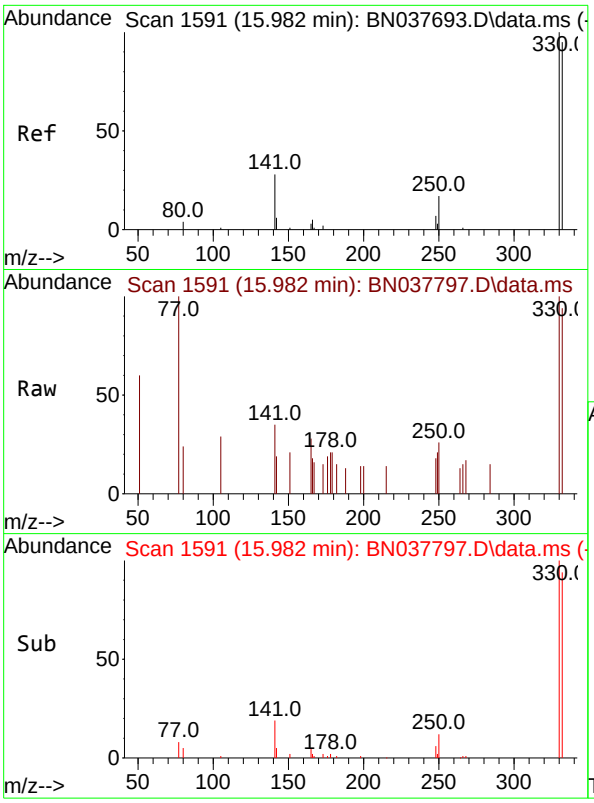




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.484 min Scan# 1457
Delta R.T. -0.011 min
Lab File: BN037797.D
Acq: 19 Sep 2025 04:00

Tgt Ion:164 Resp: 6530

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 164 | 100 | | |
| 162 | 105.9 | 83.1 | 124.7 |
| 160 | 56.2 | 44.3 | 66.5 |



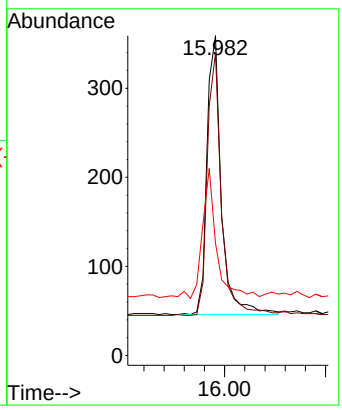


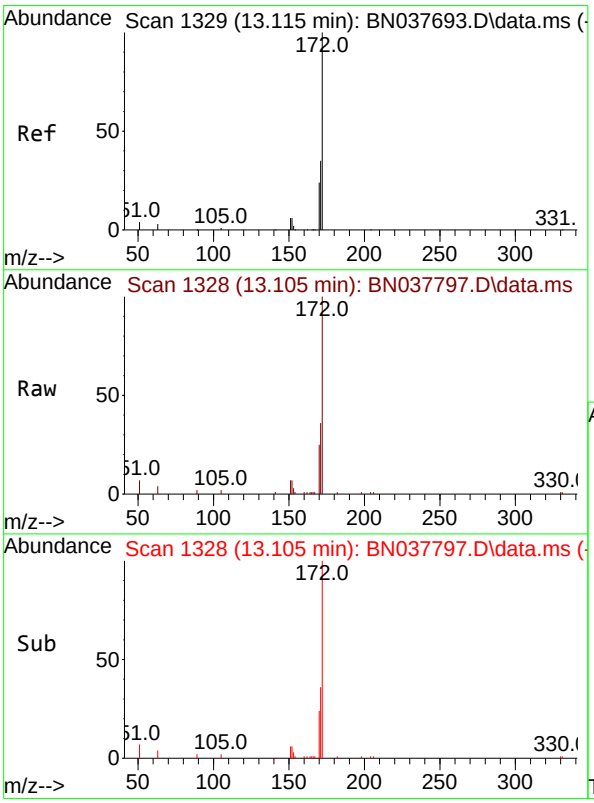

#14
2,4,6-Tribromophenol
Concen: 0.364 ng
RT: 15.982 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN037797.D
Acq: 19 Sep 2025 04:00

**Instrument :**
BNA_N
**ClientSampleId :**
RE122D2-20250910

Tgt Ion:330 Resp: 620

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 330 | 100 | | |
| 332 | 92.6 | 75.3 | 112.9 |
| 141 | 43.1 | 35.0 | 52.4 |

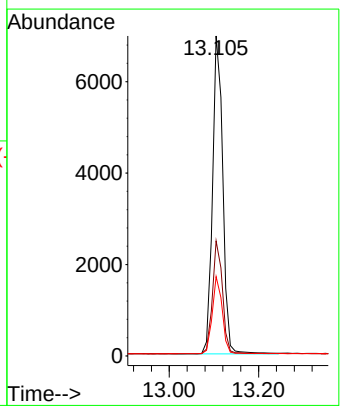


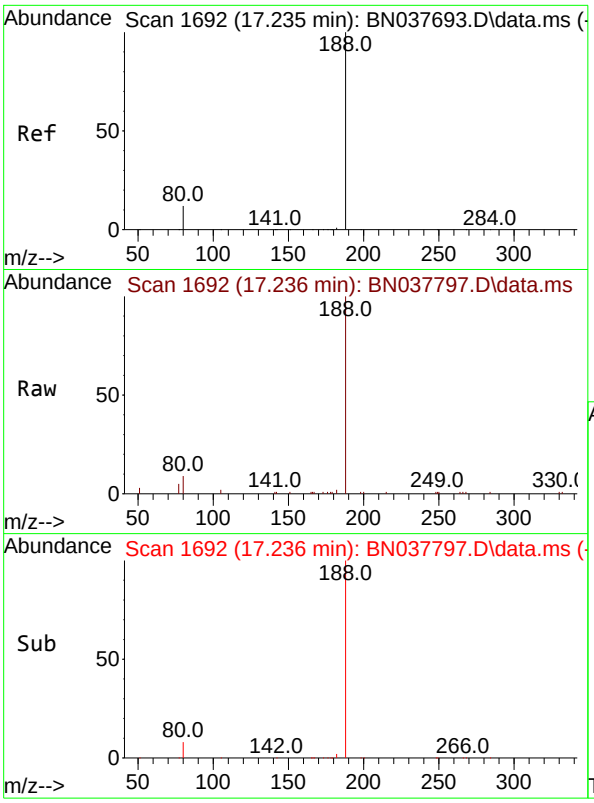




#15
2-Fluorobiphenyl
Concen: 0.405 ng
RT: 13.105 min Scan# 1328
Delta R.T. -0.011 min
Lab File: BN037797.D
Acq: 19 Sep 2025 04:00

Tgt Ion:172 Resp: 11049

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 172 | 100 | | |
| 171 | 36.0 | 28.6 | 43.0 |
| 170 | 24.8 | 19.8 | 29.8 |



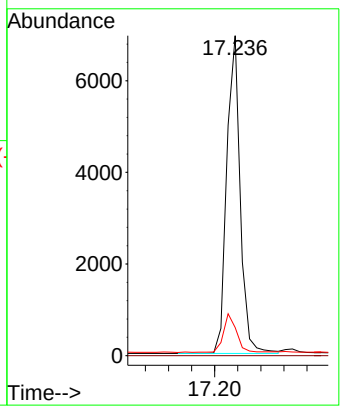


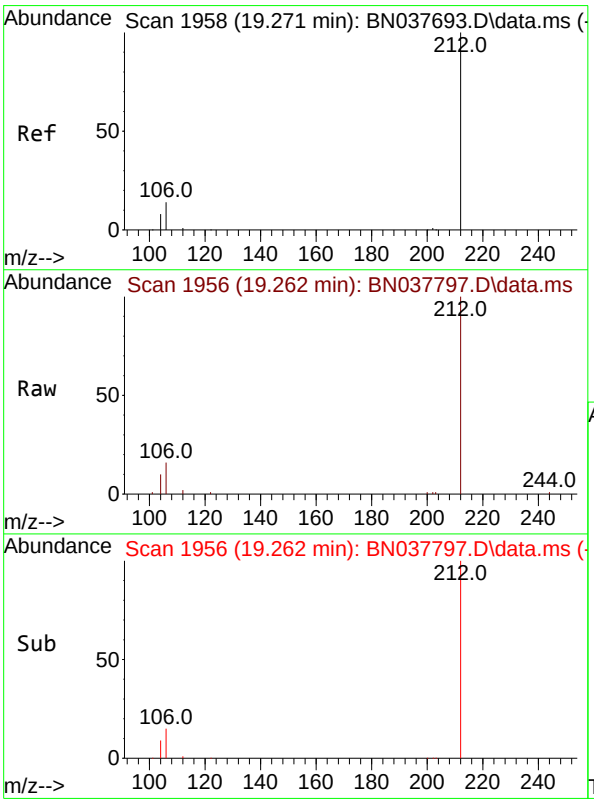

#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.236 min Scan# 1(
Delta R.T. 0.000 min
Lab File: BN037797.D
Acq: 19 Sep 2025 04:00

**Instrument :**
BNA_N
**ClientSampleId :**
RE122D2-20250910

Tgt Ion:188 Resp: 11243

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 188 | 100 | | |
| 94 | 0.0 | 0.0 | 0.0 |
| 80 | 8.8 | 10.6 | 15.8# |

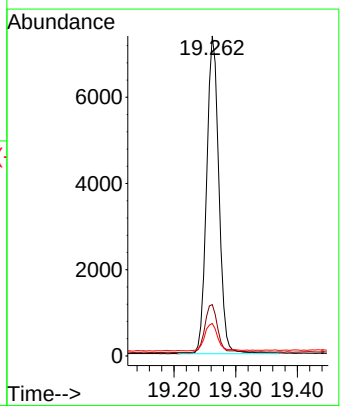


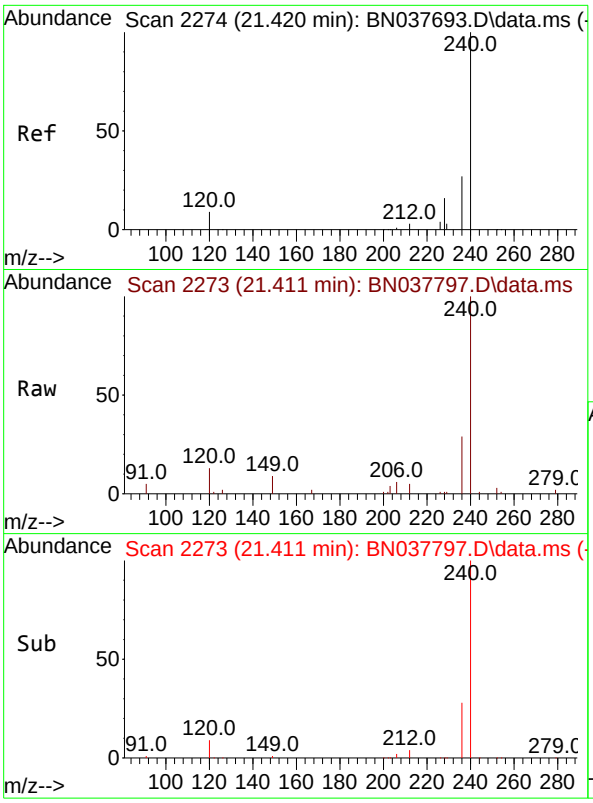




#27
Fluoranthene-d10
Concen: 0.359 ng
RT: 19.262 min Scan# 1956
Delta R.T. -0.009 min
Lab File: BN037797.D
Acq: 19 Sep 2025 04:00

Tgt Ion:212 Resp: 10127

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 212 | 100 | | |
| 106 | 16.2 | 12.2 | 18.2 |
| 104 | 9.2 | 6.9 | 10.3 |



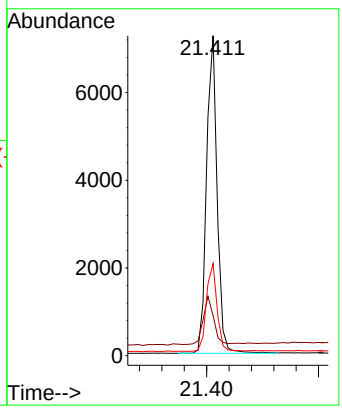


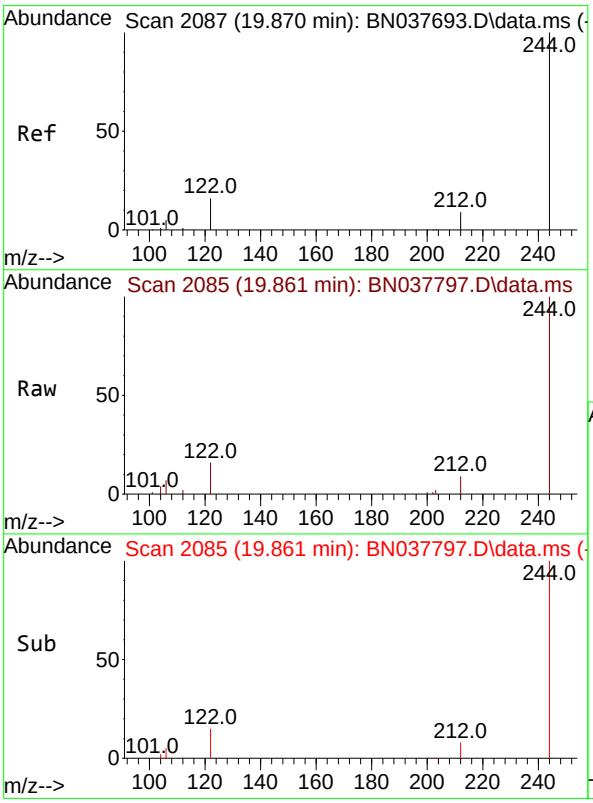

#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.411 min Scan# 2
Delta R.T. -0.009 min
Lab File: BN037797.D
Acq: 19 Sep 2025 04:00

**Instrument :**
BNA_N
**ClientSampleId :**
RE122D2-20250910

Tgt Ion:240 Resp: 9477

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 240 | 100 | | |
| 120 | 12.5 | 9.2 | 13.8 |
| 236 | 28.8 | 22.6 | 33.8 |

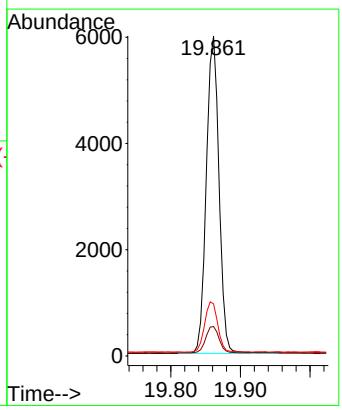


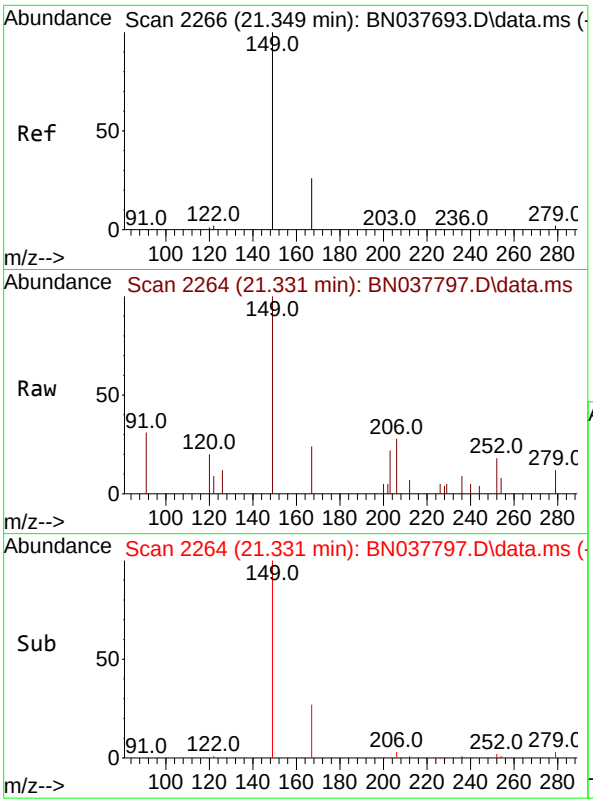




#31
Terphenyl-d14
Concen: 0.392 ng
RT: 19.861 min Scan# 2085
Delta R.T. -0.009 min
Lab File: BN037797.D
Acq: 19 Sep 2025 04:00

Tgt Ion:244 Resp: 7545

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 244 | 100 | | |
| 212 | 9.2 | 7.5 | 11.3 |
| 122 | 16.3 | 13.2 | 19.8 |



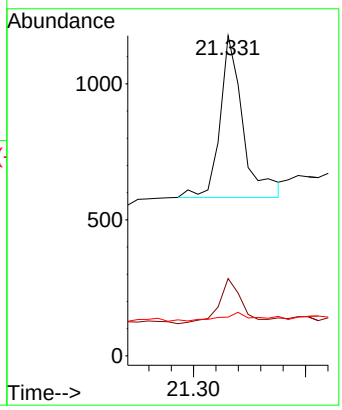


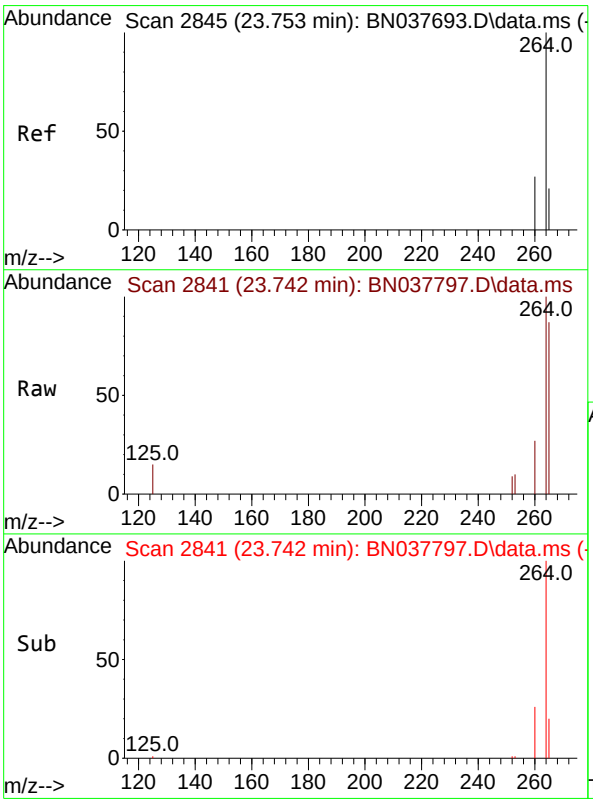

#34
Bis(2-ethylhexyl)phthalate
Concen: 0.087 ng
RT: 21.331 min Scan# 2
Delta R.T. -0.018 min
Lab File: BN037797.D
Acq: 19 Sep 2025 04:00

**Instrument :**
BNA_N
**ClientSampleId :**
RE122D2-20250910

Tgt Ion:149 Resp: 849

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 149 | 100 | | |
| 167 | 28.0 | 20.8 | 31.2 |
| 279 | 6.6 | 3.3 | 4.9# |

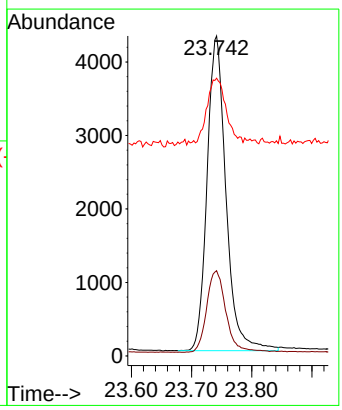



#35
Perylene-d12
Concen: 0.400 ng
RT: 23.742 min Scan# 2841
Delta R.T. -0.012 min
Lab File: BN037797.D
Acq: 19 Sep 2025 04:00

Tgt Ion:264 Resp: 9344

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 264 | 100 | | |
| 260 | 26.7 | 21.8 | 32.8 |
| 265 | 86.8 | 39.4 | 59.2# |



Raw Data: **BN037798.D**

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

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | AECOM Technical Services, Inc. | Date Collected: | 09/10/25 |
| Project: | NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258 | Date Received: | 09/12/25 |
| Client Sample ID: | RE104D1-20250910 | SDG No.: | Q3095 |
| Lab Sample ID: | Q3095-30 | Matrix: | Water |
| Analytical Method: | SW8270ESIM | % Solid: | 0 |
| Sample Wt/Vol: | 1000 Units: mL | Final Vol: | 1000 uL |
| Soil Aliquot Vol: | uL | Test: | SVOC-SIMGroup1 |
| Extraction Type : | Decanted : N | Level : | LOW |
| Injection Volume : | GPC Factor : 1.0 | GPC Cleanup : | N PH : |
| Prep Method : | | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| BN037798.D | 1 | 09/15/25 12:00 | 09/19/25 04:37 | PB169693 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOD | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | | |
| 123-91-1 | 1,4-Dioxane | 3.00 | | 0.070 | 0.20 | 0.20 | ug/L |
| **SURROGATES** | | | | | | | |
| 7297-45-2 | 2-Methylnaphthalene-d10 | 0.33 | | 30 - 150 | | 83% | SPK: 0.4 |
| 93951-69-0 | Fluoranthene-d10 | 0.37 | | 30 - 150 | | 91% | SPK: 0.4 |
| 4165-60-0 | Nitrobenzene-d5 | 0.37 | | 55 - 111 | | 92% | SPK: 0.4 |
| 321-60-8 | 2-Fluorobiphenyl | 0.37 | | 53 - 106 | | 93% | SPK: 0.4 |
| 1718-51-0 | Terphenyl-d14 | 0.38 | | 58 - 132 | | 95% | SPK: 0.4 |
| **INTERNAL STANDARDS** | | | | | | | |
| 3855-82-1 | 1,4-Dichlorobenzene-d4 | 6790 | 7.833 | | | | |
| 1146-65-2 | Naphthalene-d8 | 16400 | 10.637 | | | | |
| 15067-26-2 | Acenaphthene-d10 | 7130 | 14.484 | | | | |
| 1517-22-2 | Phenanthrene-d10 | 12500 | 17.235 | | | | |
| 1719-03-5 | Chrysene-d12 | 10400 | 21.411 | | | | |
| 1520-96-3 | Perylene-d12 | 10200 | 23.741 | | | | |

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\BN091825\
Data File : BN037798.D
Acq On : 19 Sep 2025 04:37
Operator : RC/JU
Sample : Q3095-30
Misc :
ALS Vial : 23 Sample Multiplier: 1

**Instrument :**
BNA_N
**ClientSampleId :**
RE104D1-20250910

Quant Time: Sep 19 07:42:23 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN091125.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Sep 11 14:20:01 2025
Response via : Initial Calibration

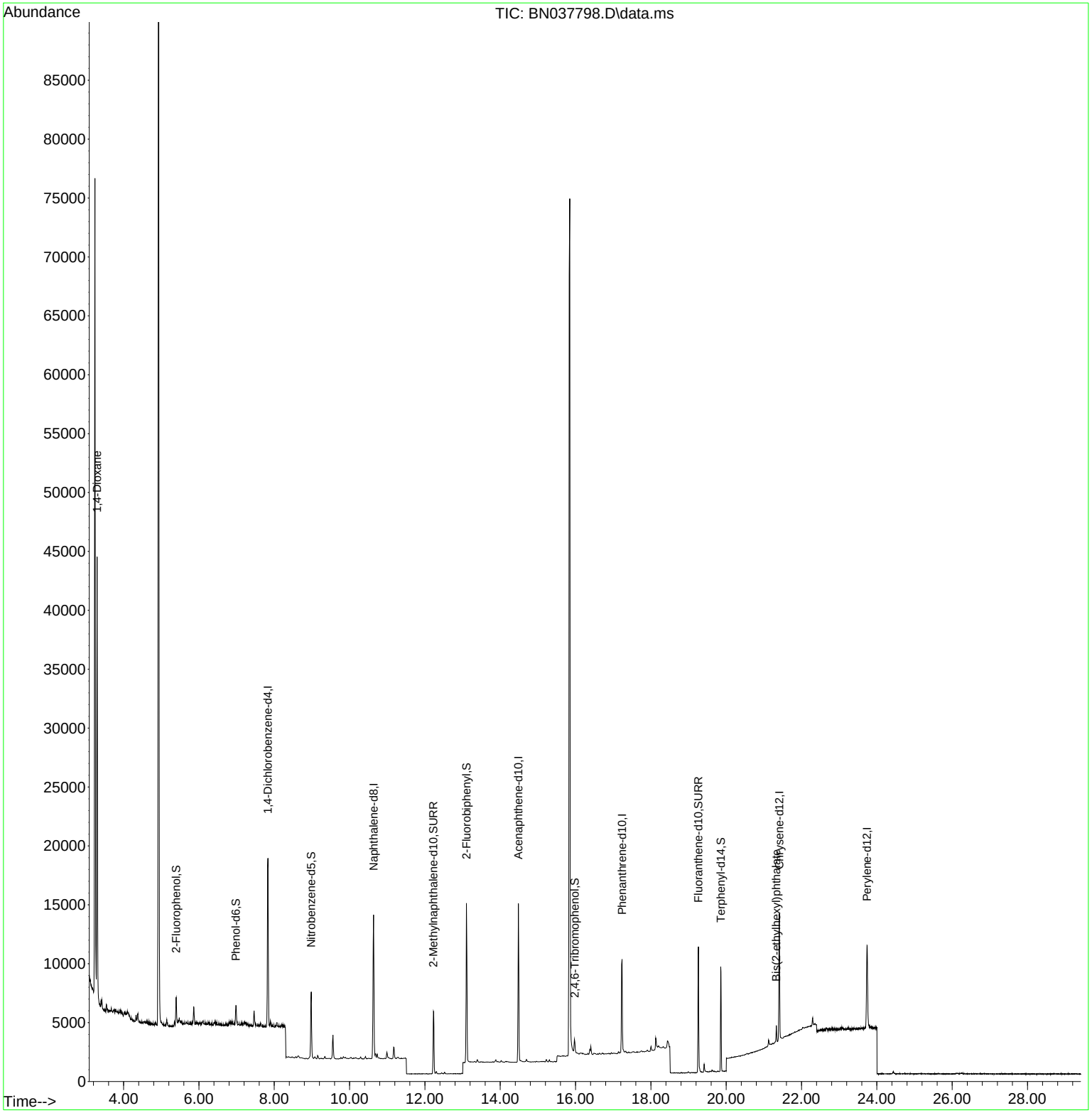
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) 1,4-Dichlorobenzene-d4 | 7.833 | 152 | 6794 | 0.400 | ng | 0.00 |
| 7) Naphthalene-d8 | 10.637 | 136 | 16429 | 0.400 | ng | -0.01 |
| 13) Acenaphthene-d10 | 14.484 | 164 | 7128 | 0.400 | ng | -0.01 |
| 19) Phenanthrene-d10 | 17.235 | 188 | 12460 | 0.400 | ng | # 0.00 |
| 29) Chrysene-d12 | 21.411 | 240 | 10431 | 0.400 | ng | 0.00 |
| 35) Perylene-d12 | 23.741 | 264 | 10216 | 0.400 | ng | #-0.01 |
| System Monitoring Compounds | | | | | | |
| 4) 2-Fluorophenol | 5.399 | 112 | 1990 | 0.128 | ng | 0.00 |
| 5) Phenol-d6 | 6.980 | 99 | 1546 | 0.076 | ng | 0.00 |
| 8) Nitrobenzene-d5 | 8.982 | 82 | 4432 | 0.369 | ng | -0.01 |
| 11) 2-Methylnaphthalene-d10 | 12.227 | 152 | 7188 | 0.330 | ng | -0.02 |
| 14) 2,4,6-Tribromophenol | 15.982 | 330 | 711 | 0.382 | ng | 0.00 |
| 15) 2-Fluorobiphenyl | 13.105 | 172 | 11119 | 0.373 | ng | -0.01 |
| 27) Fluoranthene-d10 | 19.262 | 212 | 11430 | 0.365 | ng | 0.00 |
| 31) Terphenyl-d14 | 19.856 | 244 | 8081 | 0.382 | ng | -0.01 |
| Target Compounds | | | | | | Qvalue |
| 2) 1,4-Dioxane | 3.297 | 88 | 21323 | 3.013 | ng | 95 |
| 34) Bis(2-ethylhexyl)phtha... | 21.330 | 149 | 1275 | 0.118 | ng | 98 |

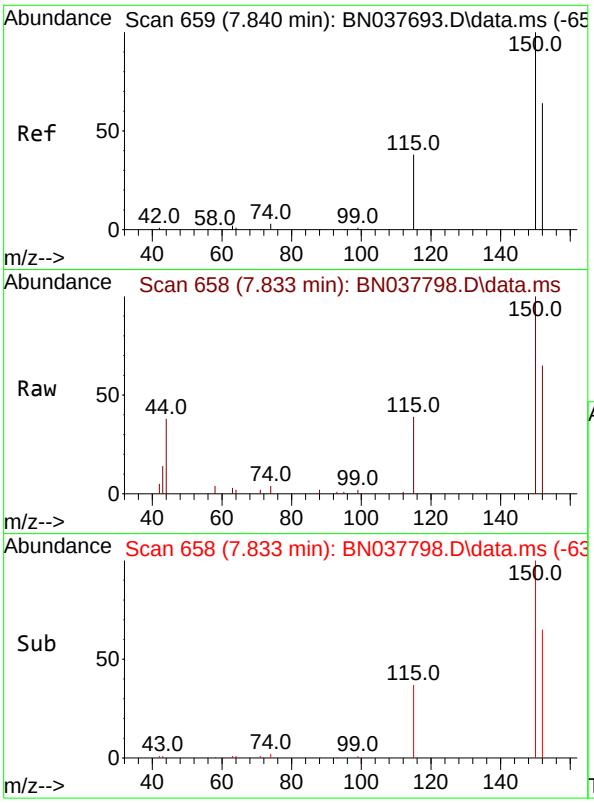
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN091825\
Data File : BN037798.D
Acq On : 19 Sep 2025 04:37
Operator : RC/JU
Sample : Q3095-30
Misc :
ALS Vial : 23 Sample Multiplier: 1

**Instrument :**
BNA_N
**ClientSampleId :**
RE104D1-20250910

Quant Time: Sep 19 07:42:23 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN091125.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Sep 11 14:20:01 2025
Response via : Initial Calibration



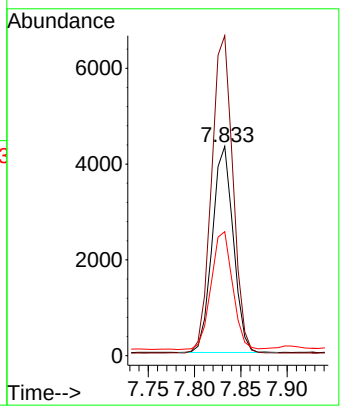


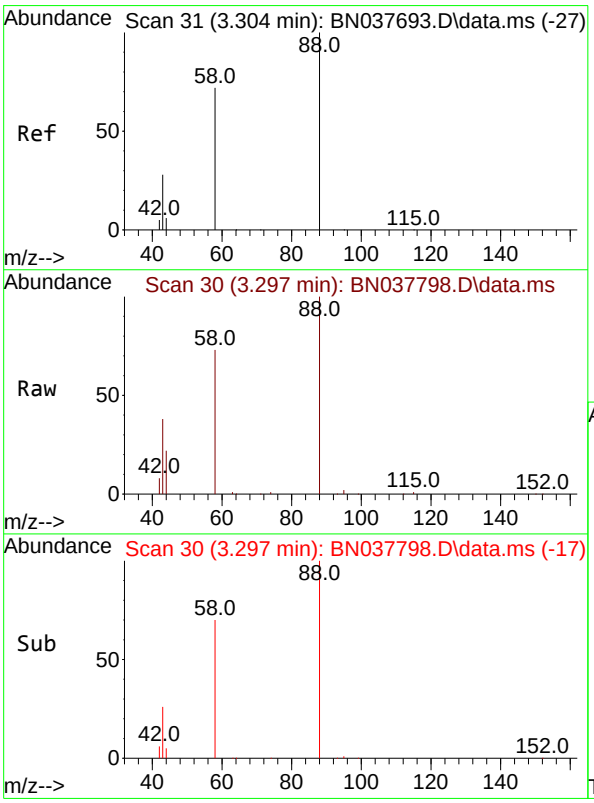

#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.833 min Scan# 6
Delta R.T. -0.007 min
Lab File: BN037798.D
Acq: 19 Sep 2025 04:37

**Instrument :**
BNA_N
**ClientSampleId :**
RE104D1-20250910

Tgt Ion:152 Resp: 6794

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 150 | 153.0 | 124.5 | 186.7 |
| 115 | 59.2 | 49.2 | 73.8 |

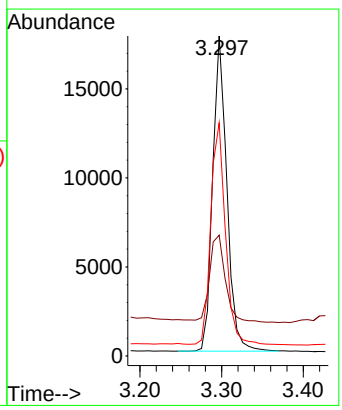


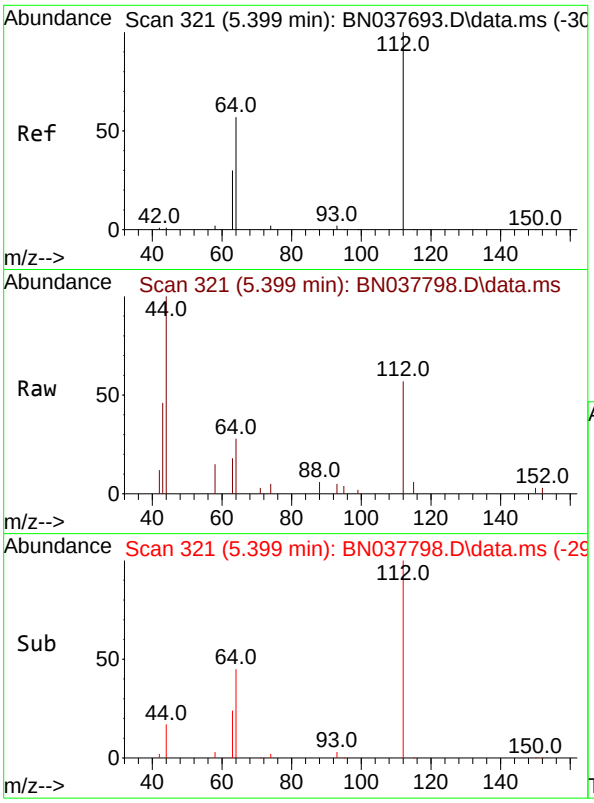




#2
1,4-Dioxane
Concen: 3.013 ng
RT: 3.297 min Scan# 30
Delta R.T. -0.007 min
Lab File: BN037798.D
Acq: 19 Sep 2025 04:37

Tgt Ion: 88 Resp: 21323

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 88 | 100 | | |
| 43 | 31.2 | 26.8 | 40.2 |
| 58 | 72.7 | 61.9 | 92.9 |



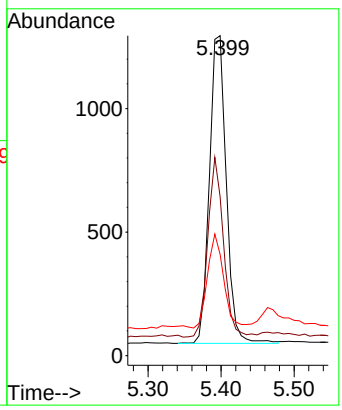


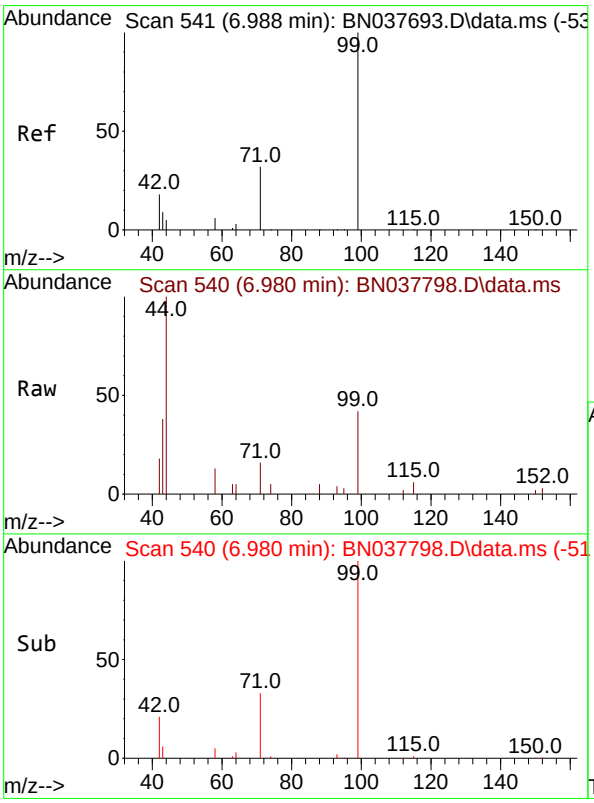

#4
2-Fluorophenol
Concen: 0.128 ng
RT: 5.399 min Scan# 3
Delta R.T. -0.000 min
Lab File: BN037798.D
Acq: 19 Sep 2025 04:37

**Instrument :**
BNA_N
**ClientSampleId :**
RE104D1-20250910

Tgt Ion:112 Resp: 1990

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 112 | 100 | | |
| 64 | 54.6 | 44.9 | 67.3 |
| 63 | 29.3 | 24.7 | 37.1 |

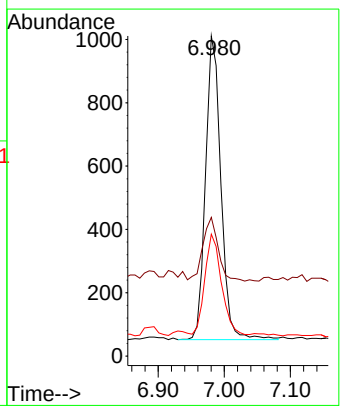


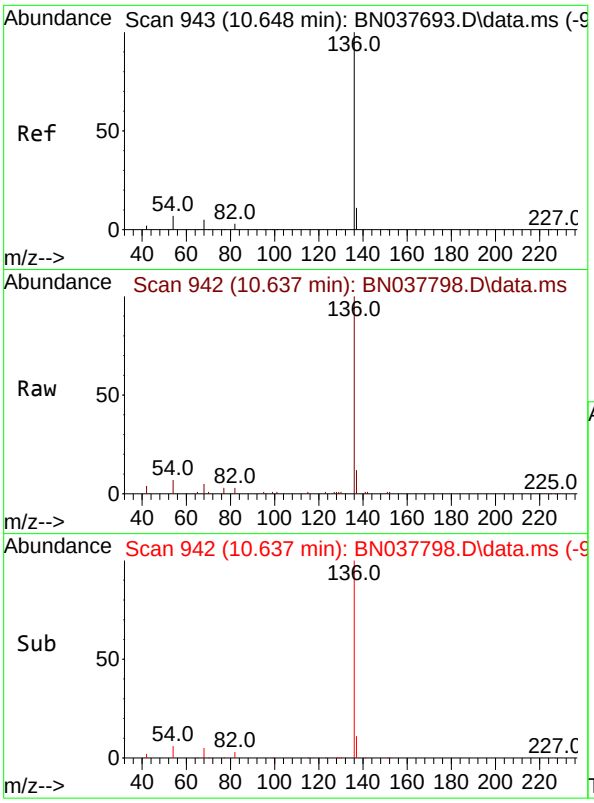




#5
Phenol-d6
Concen: 0.076 ng
RT: 6.980 min Scan# 540
Delta R.T. -0.007 min
Lab File: BN037798.D
Acq: 19 Sep 2025 04:37

Tgt Ion: 99 Resp: 1546

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 99 | 100 | | |
| 42 | 20.5 | 16.6 | 24.8 |
| 71 | 36.7 | 26.7 | 40.1 |



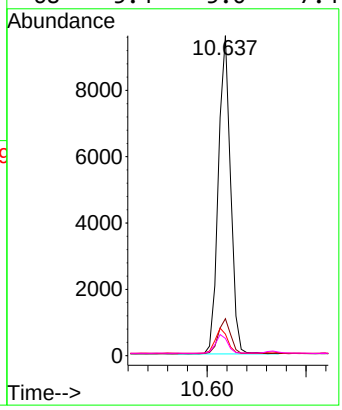


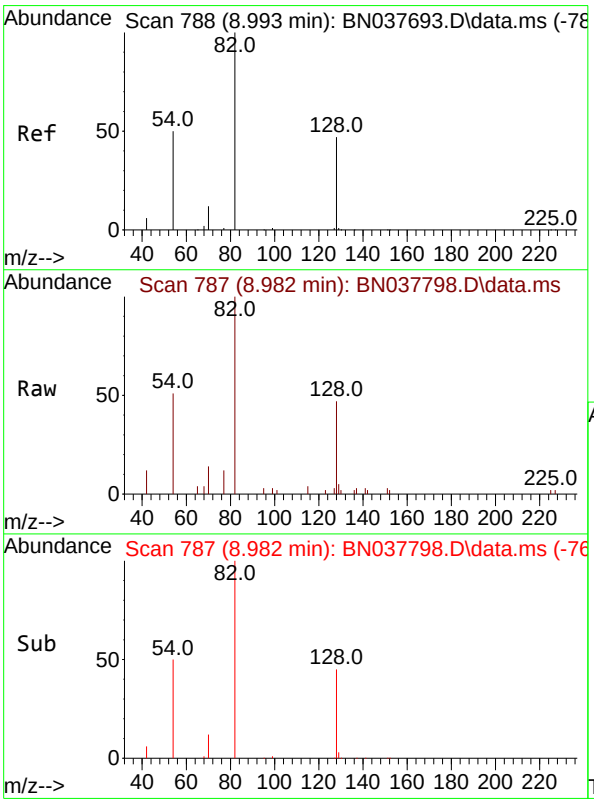

#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.637 min Scan# 94
Delta R.T. -0.011 min
Lab File: BN037798.D
Acq: 19 Sep 2025 04:37

**Instrument :**
BNA_N
**ClientSampleId :**
RE104D1-20250910

Tgt Ion:136 Resp: 16429

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 136 | 100 | | |
| 137 | 11.5 | 9.1 | 13.7 |
| 54 | 6.8 | 6.3 | 9.5 |
| 68 | 5.4 | 5.0 | 7.4 |

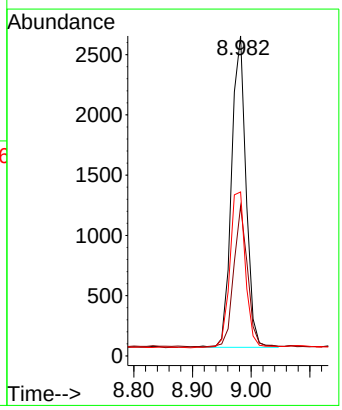


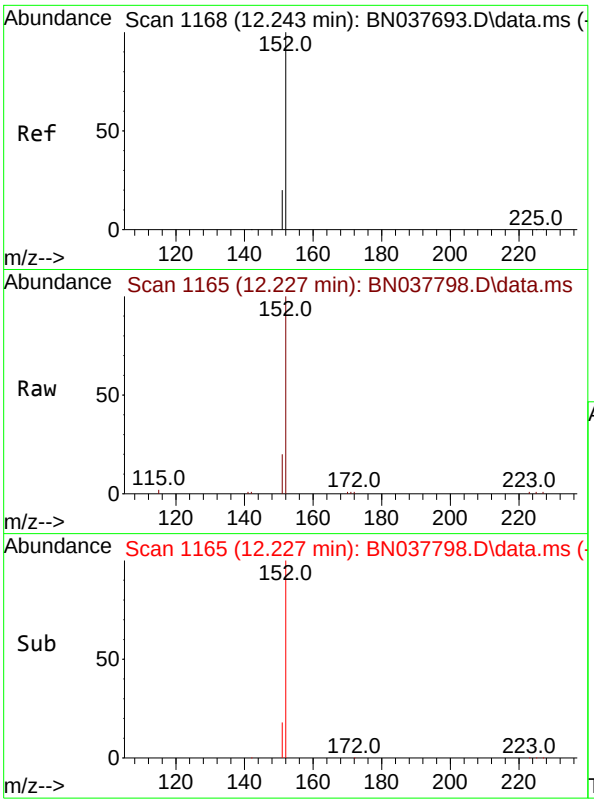




#8
Nitrobenzene-d5
Concen: 0.369 ng
RT: 8.982 min Scan# 787
Delta R.T. -0.011 min
Lab File: BN037798.D
Acq: 19 Sep 2025 04:37

Tgt Ion: 82 Resp: 4432

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 82 | 100 | | |
| 128 | 46.9 | 38.3 | 57.5 |
| 54 | 51.3 | 41.4 | 62.2 |



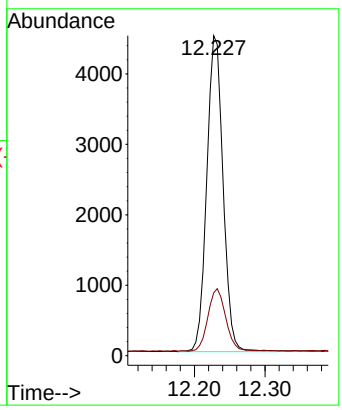


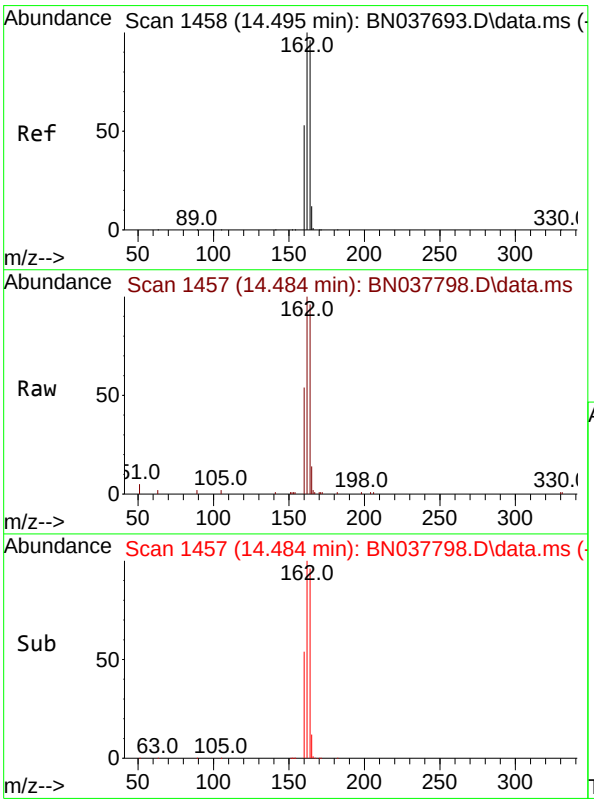

#11
2-Methylnaphthalene-d10
Concen: 0.330 ng
RT: 12.227 min Scan# 11
Delta R.T. -0.015 min
Lab File: BN037798.D
Acq: 19 Sep 2025 04:37

**Instrument :**
BNA_N
**ClientSampleId :**
RE104D1-20250910

Tgt Ion:152 Resp: 7188

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 151 | 21.5 | 17.0 | 25.6 |

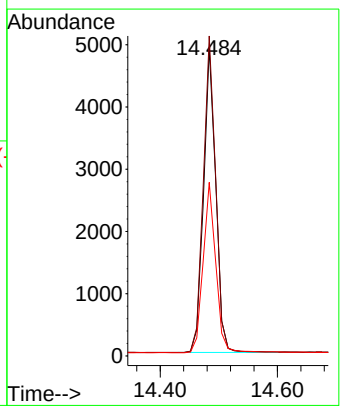


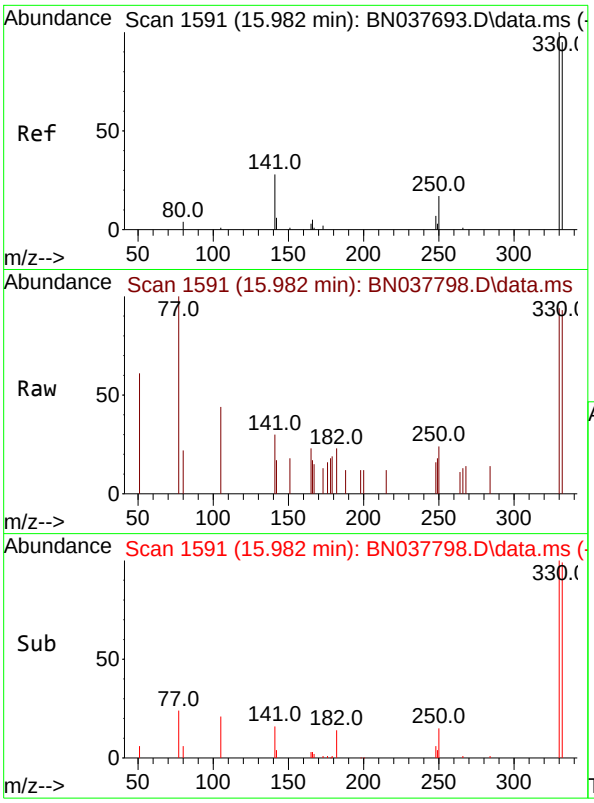




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.484 min Scan# 1457
Delta R.T. -0.011 min
Lab File: BN037798.D
Acq: 19 Sep 2025 04:37

Tgt Ion:164 Resp: 7128

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 164 | 100 | | |
| 162 | 103.8 | 83.1 | 124.7 |
| 160 | 56.3 | 44.3 | 66.5 |



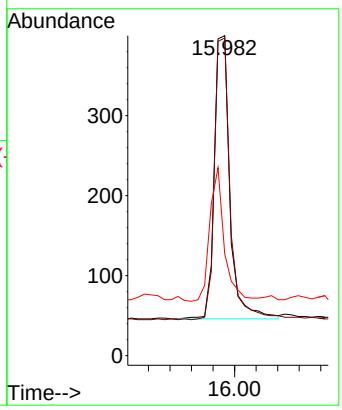


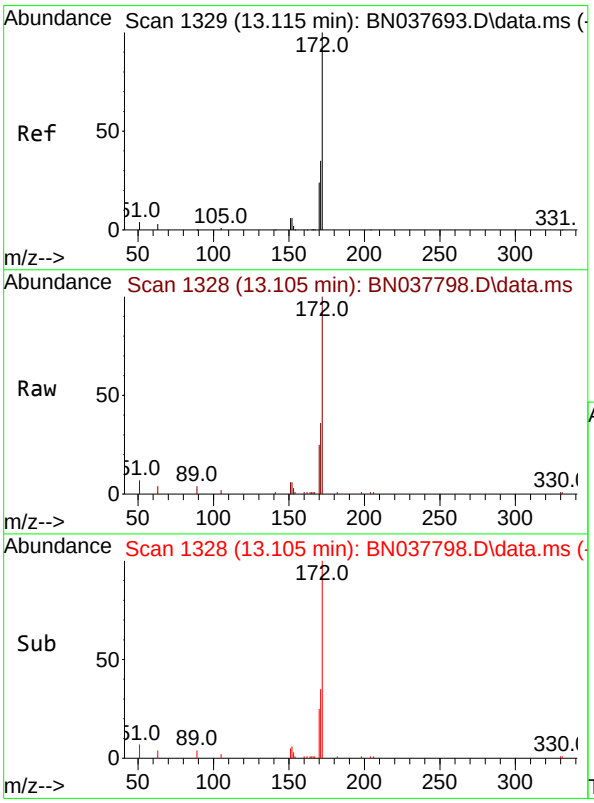

#14
2,4,6-Tribromophenol
Concen: 0.382 ng
RT: 15.982 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN037798.D
Acq: 19 Sep 2025 04:37

**Instrument :**
BNA_N
**ClientSampleId :**
RE104D1-20250910

Tgt Ion:330 Resp: 711

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 330 | 100 | | |
| 332 | 100.6 | 75.3 | 112.9 |
| 141 | 43.7 | 35.0 | 52.4 |

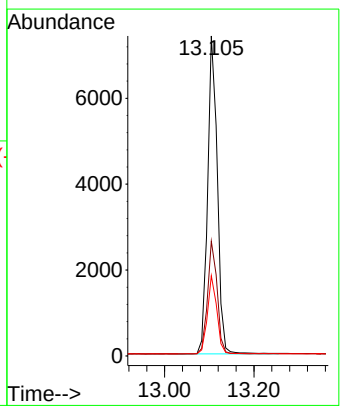


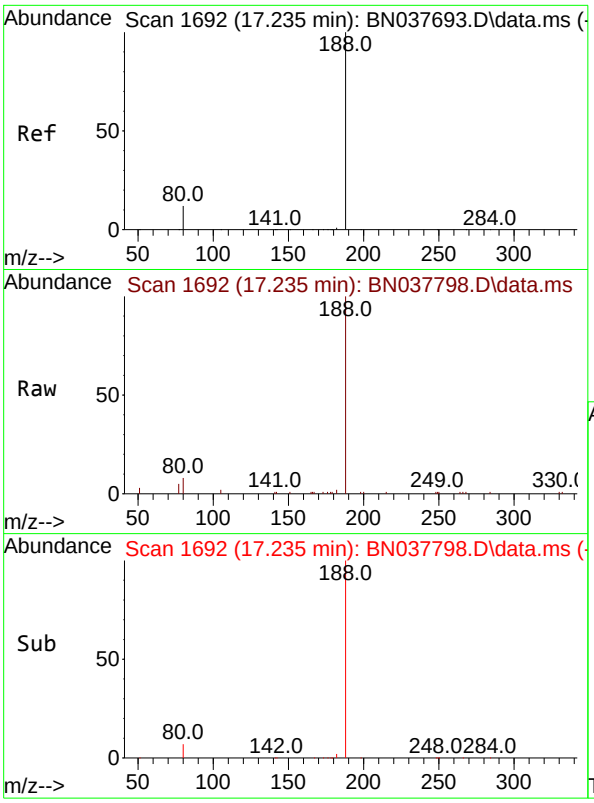




#15
2-Fluorobiphenyl
Concen: 0.373 ng
RT: 13.105 min Scan# 1328
Delta R.T. -0.011 min
Lab File: BN037798.D
Acq: 19 Sep 2025 04:37

Tgt Ion:172 Resp: 11119

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 172 | 100 | | |
| 171 | 35.9 | 28.6 | 43.0 |
| 170 | 25.1 | 19.8 | 29.8 |



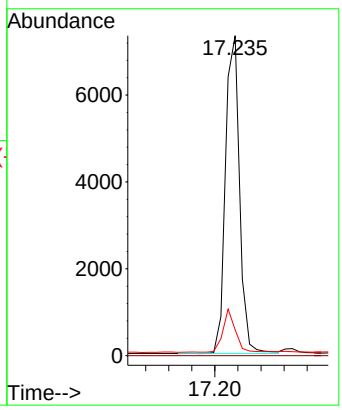


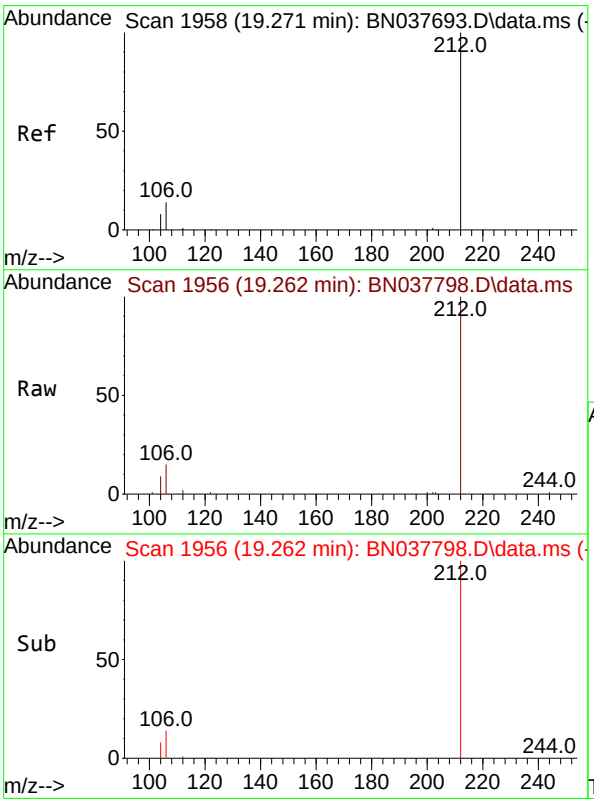

#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.235 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN037798.D
Acq: 19 Sep 2025 04:37

**Instrument :**
BNA_N
**ClientSampleId :**
RE104D1-20250910

Tgt Ion:188 Resp: 12460

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 188 | 100 | | |
| 94 | 0.0 | 0.0 | 0.0 |
| 80 | 8.1 | 10.6 | 15.8# |

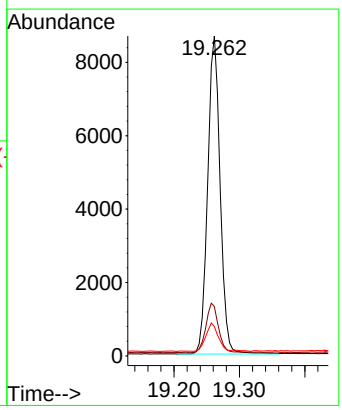


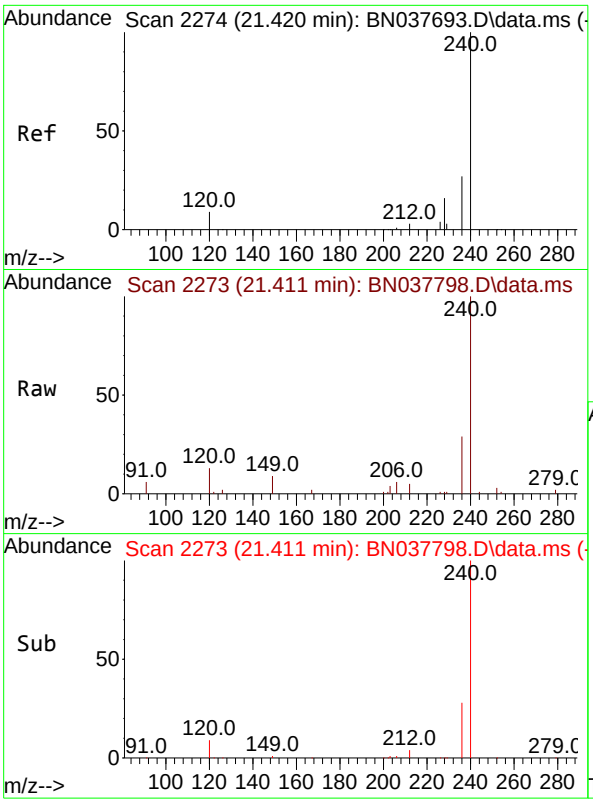




#27
Fluoranthene-d10
Concen: 0.365 ng
RT: 19.262 min Scan# 1956
Delta R.T. -0.010 min
Lab File: BN037798.D
Acq: 19 Sep 2025 04:37

Tgt Ion:212 Resp: 11430

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 212 | 100 | | |
| 106 | 15.9 | 12.2 | 18.2 |
| 104 | 9.0 | 6.9 | 10.3 |



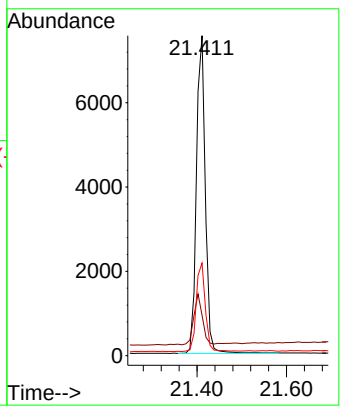


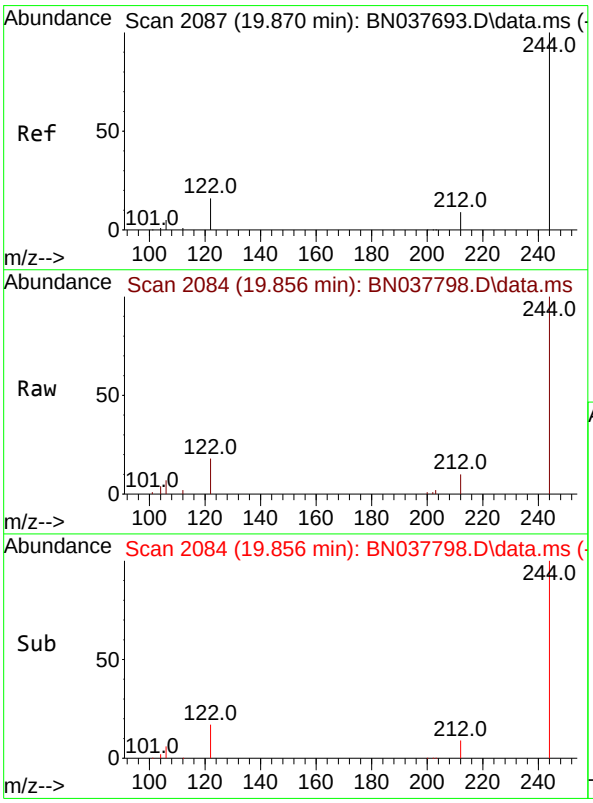

#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.411 min Scan# 2
Delta R.T. -0.009 min
Lab File: BN037798.D
Acq: 19 Sep 2025 04:37

**Instrument :**
BNA_N
**ClientSampleId :**
RE104D1-20250910

Tgt Ion:240 Resp: 10431

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 240 | 100 | | |
| 120 | 12.6 | 9.2 | 13.8 |
| 236 | 29.0 | 22.6 | 33.8 |

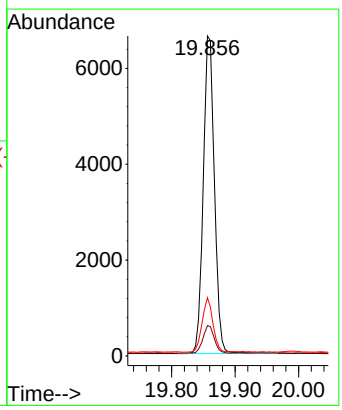


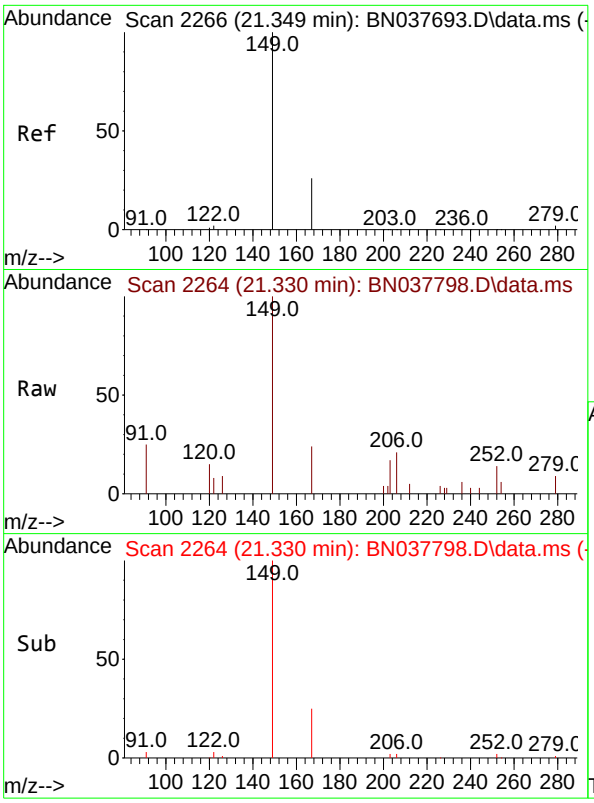




#31
Terphenyl-d14
Concen: 0.382 ng
RT: 19.856 min Scan# 2084
Delta R.T. -0.014 min
Lab File: BN037798.D
Acq: 19 Sep 2025 04:37

Tgt Ion:244 Resp: 8081

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 244 | 100 | | |
| 212 | 9.5 | 7.5 | 11.3 |
| 122 | 18.2 | 13.2 | 19.8 |



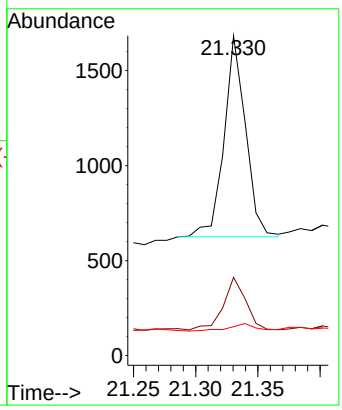


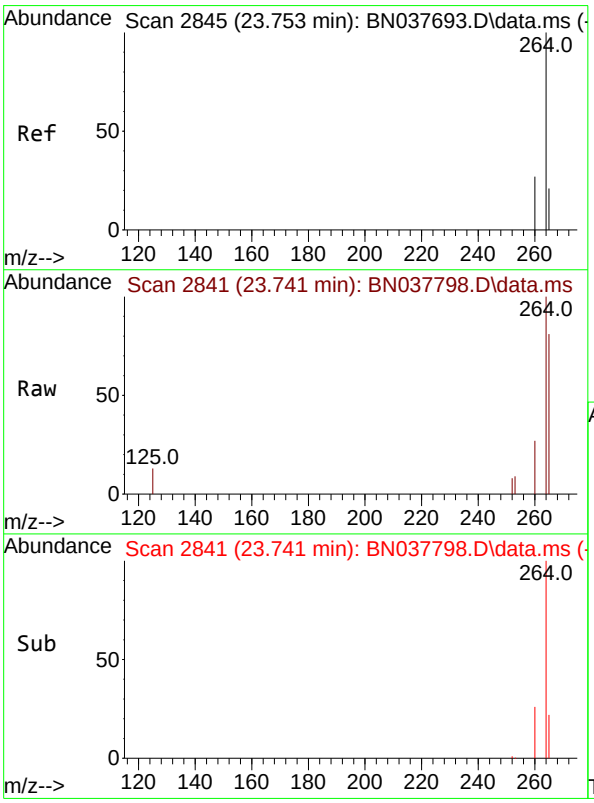

#34
Bis(2-ethylhexyl)phthalate
Concen: 0.118 ng
RT: 21.330 min Scan# 2
Delta R.T. -0.018 min
Lab File: BN037798.D
Acq: 19 Sep 2025 04:37

**Instrument :**
BNA_N
**ClientSampleId :**
RE104D1-20250910

Tgt Ion:149 Resp: 1275

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 149 | 100 | | |
| 167 | 27.1 | 20.8 | 31.2 |
| 279 | 4.5 | 3.3 | 4.9 |

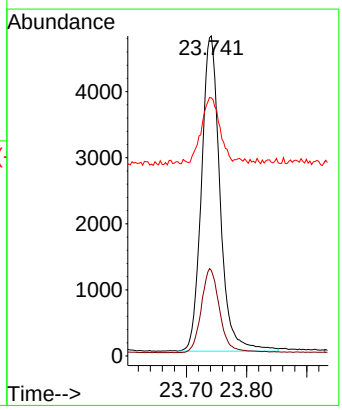



#35
Perylene-d12
Concen: 0.400 ng
RT: 23.741 min Scan# 2841
Delta R.T. -0.012 min
Lab File: BN037798.D
Acq: 19 Sep 2025 04:37

Tgt Ion:264 Resp: 10216

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 264 | 100 | | |
| 260 | 26.8 | 21.8 | 32.8 |
| 265 | 80.6 | 39.4 | 59.2# |



Raw Data: **BN037799.D**

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

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | AECOM Technical Services, Inc. | Date Collected: | 09/11/25 |
| Project: | NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258 | Date Received: | 09/12/25 |
| Client Sample ID: | TT180D-20250911 | SDG No.: | Q3095 |
| Lab Sample ID: | Q3095-31 | Matrix: | Water |
| Analytical Method: | SW8270ESIM | % Solid: | 0 |
| Sample Wt/Vol: | 1000 Units: mL | Final Vol: | 1000 uL |
| Soil Aliquot Vol: | uL | Test: | SVOC-SIMGroup1 |
| Extraction Type : | Decanted : N | Level : | LOW |
| Injection Volume : | GPC Factor : 1.0 | GPC Cleanup : | N PH : |
| Prep Method : | | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| BN037799.D | 1 | 09/15/25 12:00 | 09/19/25 05:13 | PB169693 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOD | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | | |
| 123-91-1 | 1,4-Dioxane | 0.11 | J | 0.070 | 0.20 | 0.20 | ug/L |
| **SURROGATES** | | | | | | | |
| 7297-45-2 | 2-Methylnaphthalene-d10 | 0.34 | | 30 - 150 | | 86% | SPK: 0.4 |
| 93951-69-0 | Fluoranthene-d10 | 0.36 | | 30 - 150 | | 91% | SPK: 0.4 |
| 4165-60-0 | Nitrobenzene-d5 | 0.39 | | 55 - 111 | | 97% | SPK: 0.4 |
| 321-60-8 | 2-Fluorobiphenyl | 0.39 | | 53 - 106 | | 97% | SPK: 0.4 |
| 1718-51-0 | Terphenyl-d14 | 0.39 | | 58 - 132 | | 97% | SPK: 0.4 |
| **INTERNAL STANDARDS** | | | | | | | |
| 3855-82-1 | 1,4-Dichlorobenzene-d4 | 6960 | 7.833 | | | | |
| 1146-65-2 | Naphthalene-d8 | 16600 | 10.637 | | | | |
| 15067-26-2 | Acenaphthene-d10 | 7190 | 14.484 | | | | |
| 1517-22-2 | Phenanthrene-d10 | 12500 | 17.235 | | | | |
| 1719-03-5 | Chrysene-d12 | 10600 | 21.411 | | | | |
| 1520-96-3 | Perylene-d12 | 10300 | 23.741 | | | | |

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\BN091825\
Data File : BN037799.D
Acq On : 19 Sep 2025 05:13
Operator : RC/JU
Sample : Q3095-31
Misc :
ALS Vial : 24 Sample Multiplier: 1

**Instrument :**
BNA_N
**ClientSampleId :**
TT180D-20250911

Quant Time: Sep 19 07:42:41 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN091125.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Sep 11 14:20:01 2025
Response via : Initial Calibration

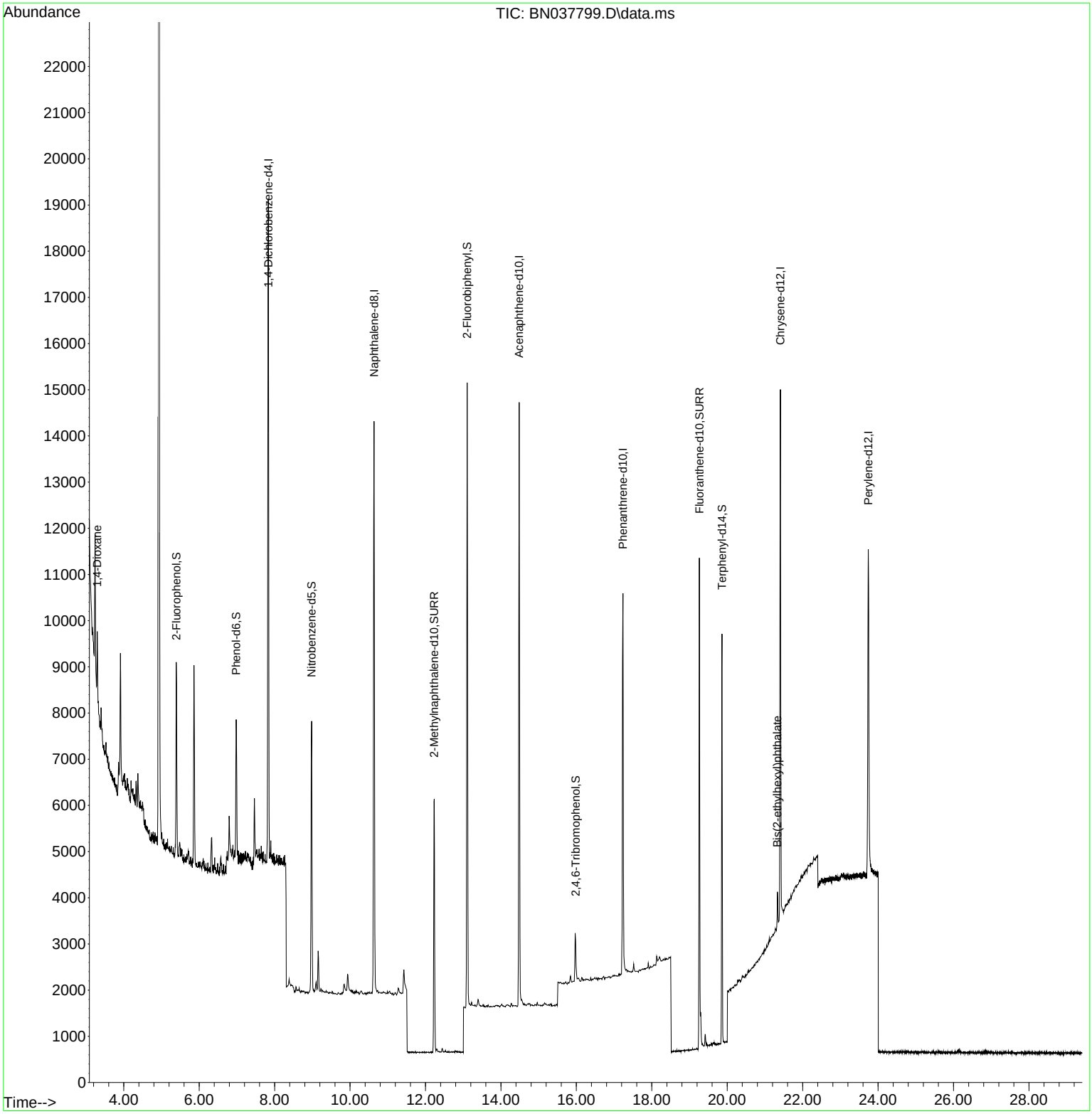
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) 1,4-Dichlorobenzene-d4 | 7.833 | 152 | 6964 | 0.400 | ng | 0.00 |
| 7) Naphthalene-d8 | 10.637 | 136 | 16642 | 0.400 | ng | -0.01 |
| 13) Acenaphthene-d10 | 14.484 | 164 | 7189 | 0.400 | ng | -0.01 |
| 19) Phenanthrene-d10 | 17.235 | 188 | 12481 | 0.400 | ng | # 0.00 |
| 29) Chrysene-d12 | 21.411 | 240 | 10625 | 0.400 | ng | 0.00 |
| 35) Perylene-d12 | 23.741 | 264 | 10338 | 0.400 | ng | #-0.01 |
| System Monitoring Compounds | | | | | | |
| 4) 2-Fluorophenol | 5.399 | 112 | 3349 | 0.209 | ng | 0.00 |
| 5) Phenol-d6 | 6.980 | 99 | 2838 | 0.137 | ng | 0.00 |
| 8) Nitrobenzene-d5 | 8.982 | 82 | 4713 | 0.387 | ng | -0.01 |
| 11) 2-Methylnaphthalene-d10 | 12.227 | 152 | 7550 | 0.342 | ng | -0.02 |
| 14) 2,4,6-Tribromophenol | 15.982 | 330 | 752 | 0.401 | ng | 0.00 |
| 15) 2-Fluorobiphenyl | 13.105 | 172 | 11713 | 0.390 | ng | -0.01 |
| 27) Fluoranthene-d10 | 19.262 | 212 | 11399 | 0.364 | ng | 0.00 |
| 31) Terphenyl-d14 | 19.861 | 244 | 8383 | 0.389 | ng | 0.00 |
| Target Compounds | | | | | | Qvalue |
| 2) 1,4-Dioxane | 3.297 | 88 | 788 | 0.109 | ng | # 32 |
| 34) Bis(2-ethylhexyl)phtha... | 21.331 | 149 | 816 | 0.074 | ng | # 96 |

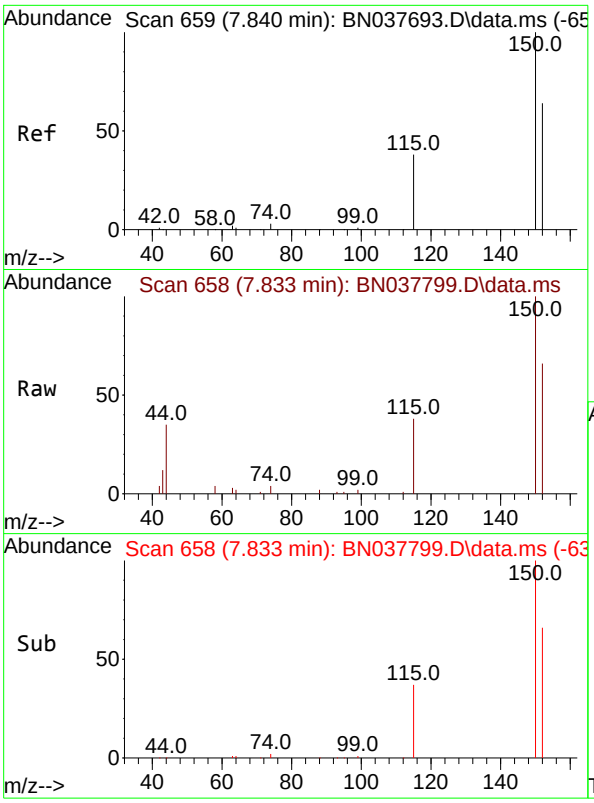
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN091825\
Data File : BN037799.D
Acq On : 19 Sep 2025 05:13
Operator : RC/JU
Sample : Q3095-31
Misc :
ALS Vial : 24 Sample Multiplier: 1

**Instrument :**
BNA_N
**ClientSampleId :**
TT180D-20250911

Quant Time: Sep 19 07:42:41 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN091125.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Sep 11 14:20:01 2025
Response via : Initial Calibration



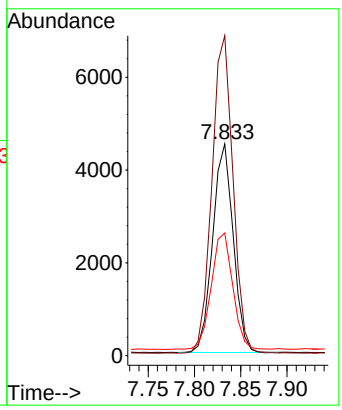


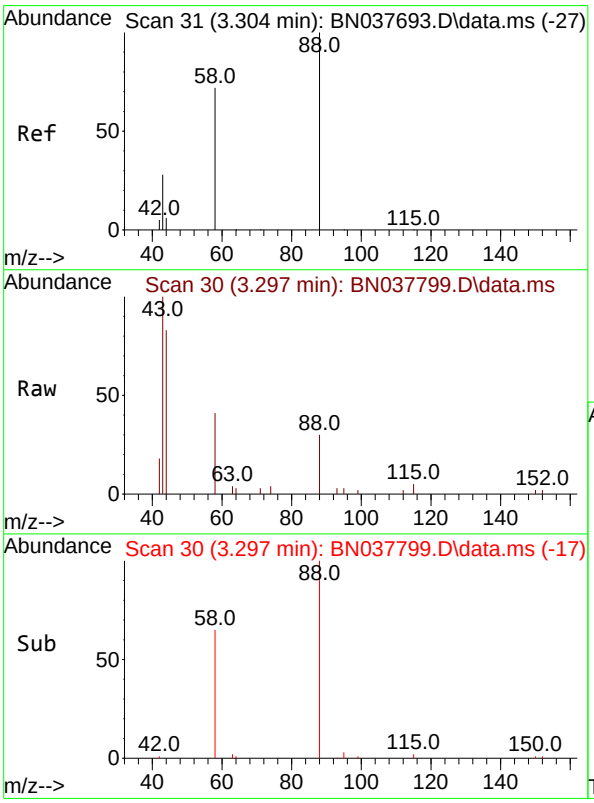

#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.833 min Scan# 6
Delta R.T. -0.007 min
Lab File: BN037799.D
Acq: 19 Sep 2025 05:13

**Instrument :**
BNA_N
**ClientSampleId :**
TT180D-20250911

Tgt Ion:152 Resp: 6964

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 150 | 151.1 | 124.5 | 186.7 |
| 115 | 57.9 | 49.2 | 73.8 |

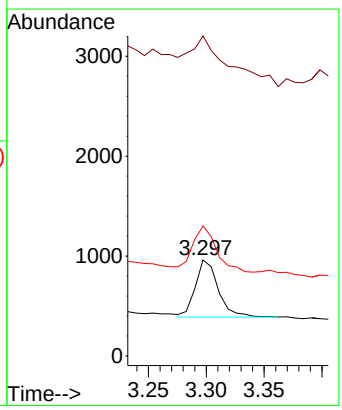


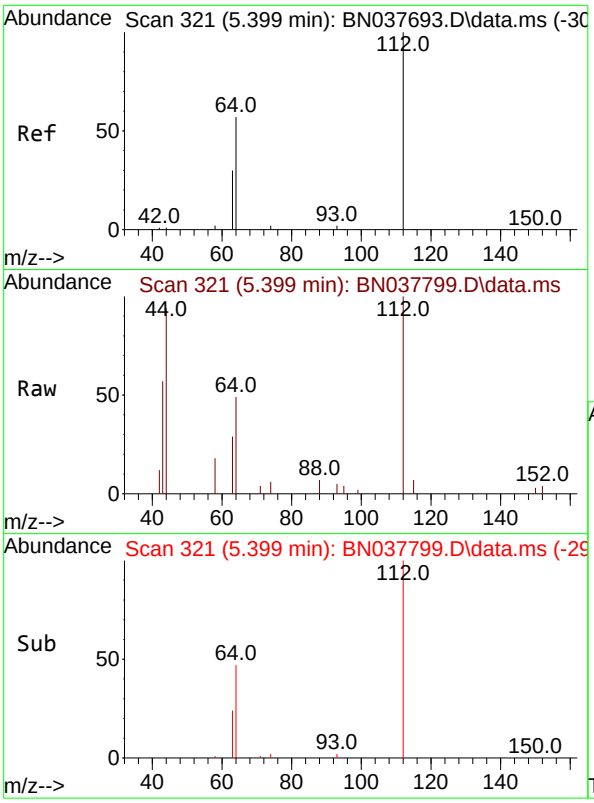




#2
1,4-Dioxane
Concen: 0.109 ng
RT: 3.297 min Scan# 30
Delta R.T. -0.007 min
Lab File: BN037799.D
Acq: 19 Sep 2025 05:13

Tgt Ion: 88 Resp: 788

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 88 | 100 | | |
| 43 | 153.0 | 26.8 | 40.2# |
| 58 | 83.1 | 61.9 | 92.9 |



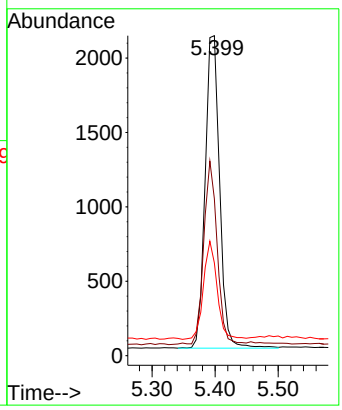


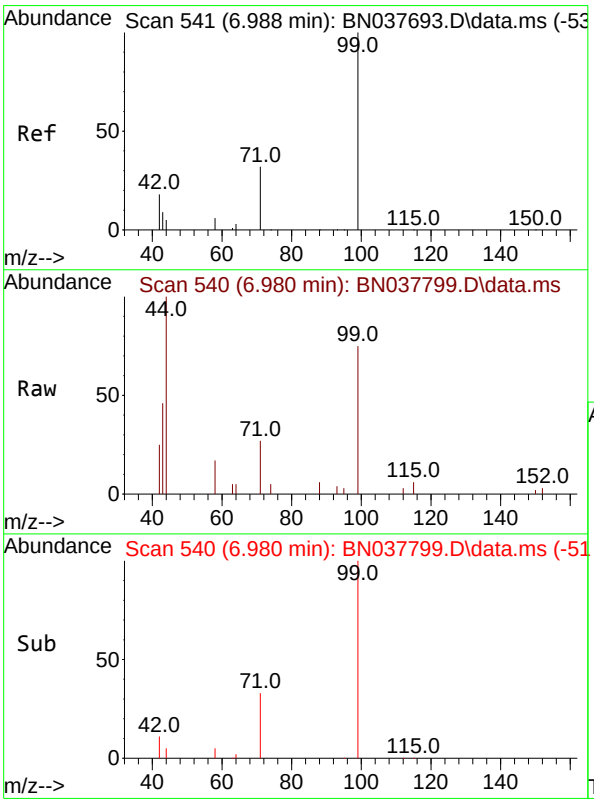

#4
2-Fluorophenol
Concen: 0.209 ng
RT: 5.399 min Scan# 3
Delta R.T. -0.000 min
Lab File: BN037799.D
Acq: 19 Sep 2025 05:13

**Instrument :**
BNA_N
**ClientSampleId :**
TT180D-20250911

Tgt Ion:112 Resp: 3349

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 112 | 100 | | |
| 64 | 54.8 | 44.9 | 67.3 |
| 63 | 29.7 | 24.7 | 37.1 |

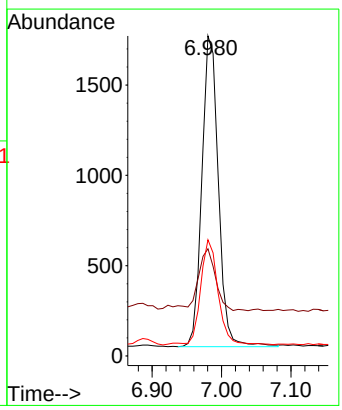


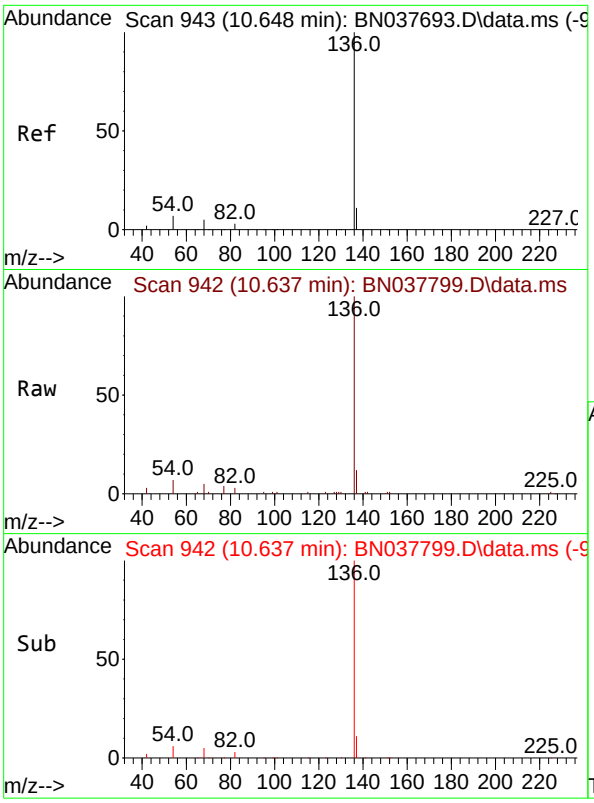




#5
Phenol-d6
Concen: 0.137 ng
RT: 6.980 min Scan# 540
Delta R.T. -0.007 min
Lab File: BN037799.D
Acq: 19 Sep 2025 05:13

Tgt Ion: 99 Resp: 2838

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 99 | 100 | | |
| 42 | 20.5 | 16.6 | 24.8 |
| 71 | 36.2 | 26.7 | 40.1 |



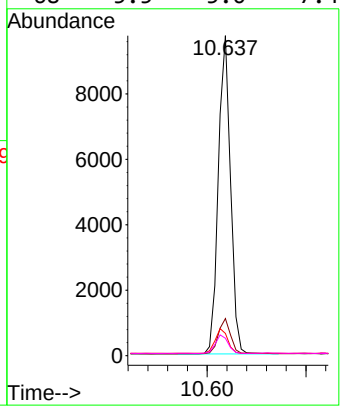


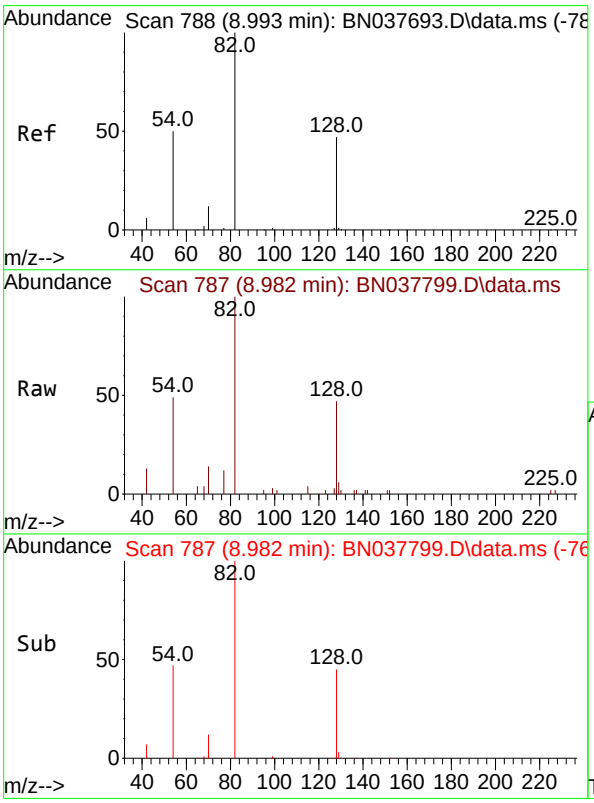

#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.637 min Scan# 94
Delta R.T. -0.011 min
Lab File: BN037799.D
Acq: 19 Sep 2025 05:13

**Instrument :**
BNA_N
**ClientSampleId :**
TT180D-20250911

Tgt Ion:136 Resp: 16642

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 136 | 100 | | |
| 137 | 11.6 | 9.1 | 13.7 |
| 54 | 6.9 | 6.3 | 9.5 |
| 68 | 5.5 | 5.0 | 7.4 |

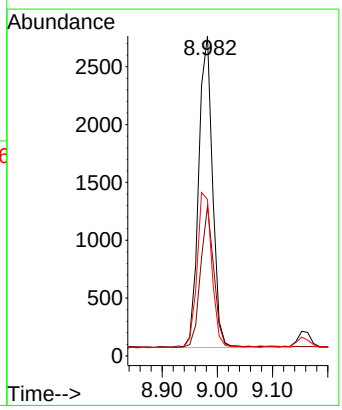


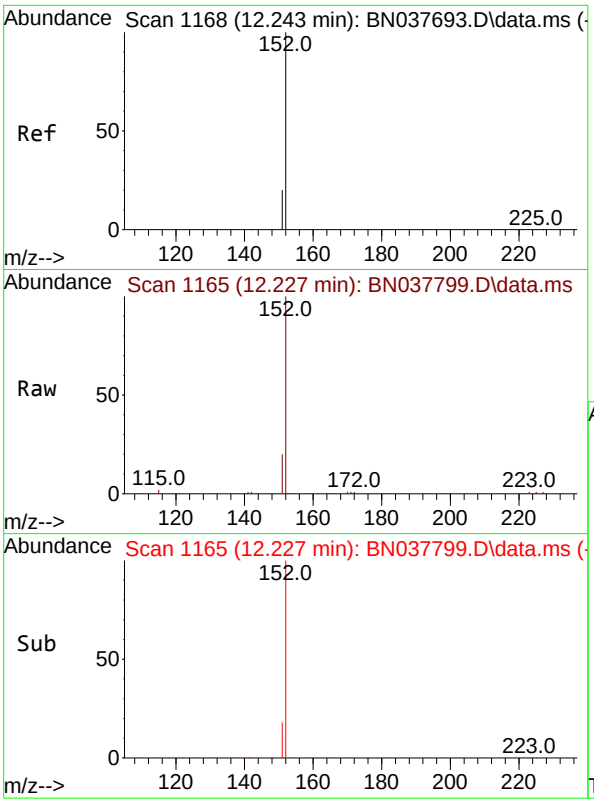




#8
Nitrobenzene-d5
Concen: 0.387 ng
RT: 8.982 min Scan# 787
Delta R.T. -0.011 min
Lab File: BN037799.D
Acq: 19 Sep 2025 05:13

Tgt Ion: 82 Resp: 4713

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 82 | 100 | | |
| 128 | 46.8 | 38.3 | 57.5 |
| 54 | 48.9 | 41.4 | 62.2 |



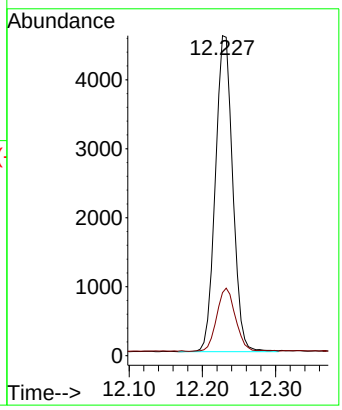


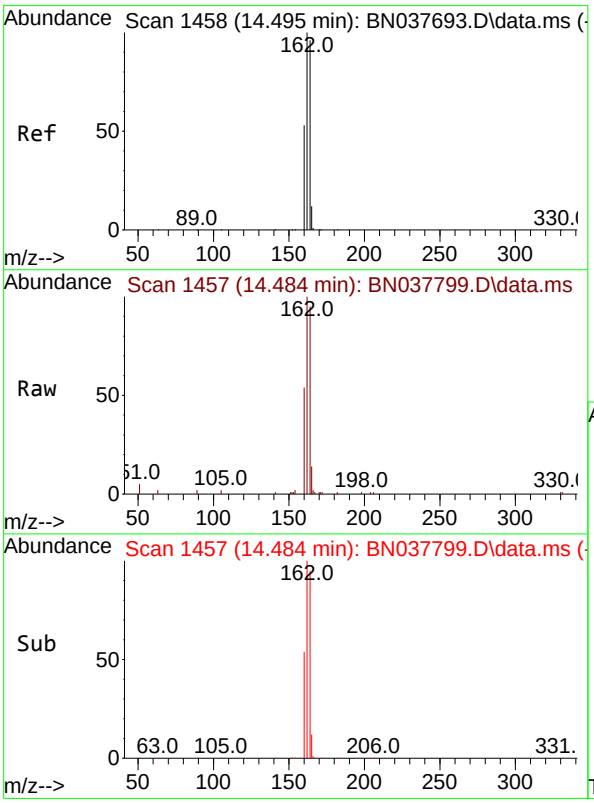

#11
2-Methylnaphthalene-d10
Concen: 0.342 ng
RT: 12.227 min Scan# 11
Delta R.T. -0.015 min
Lab File: BN037799.D
Acq: 19 Sep 2025 05:13

**Instrument :**
BNA_N
**ClientSampleId :**
TT180D-20250911

Tgt Ion:152 Resp: 7550

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 151 | 21.6 | 17.0 | 25.6 |

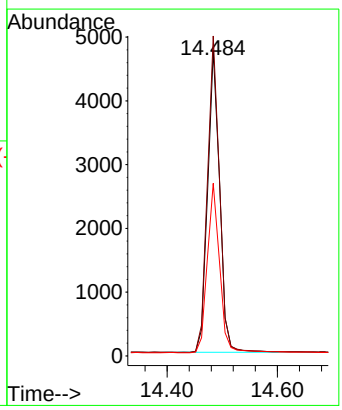


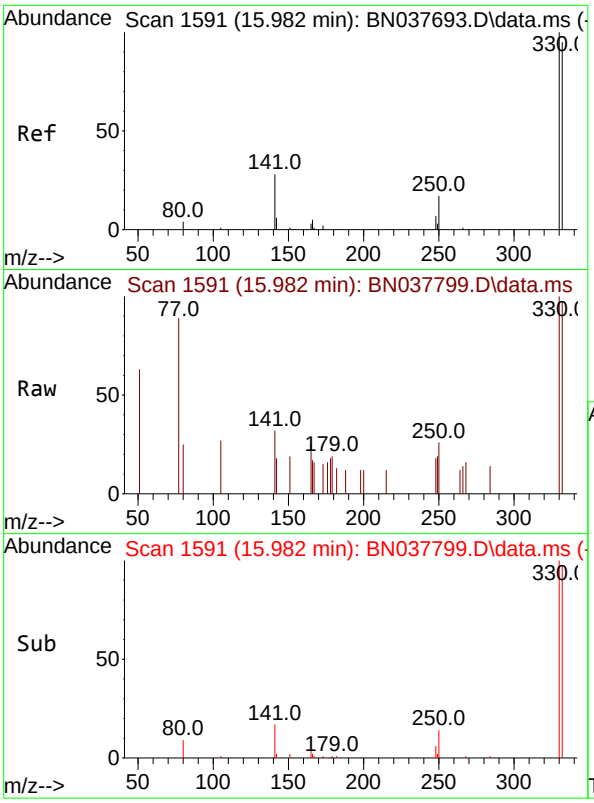




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.484 min Scan# 1457
Delta R.T. -0.011 min
Lab File: BN037799.D
Acq: 19 Sep 2025 05:13

Tgt Ion:164 Resp: 7189

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 164 | 100 | | |
| 162 | 104.8 | 83.1 | 124.7 |
| 160 | 56.5 | 44.3 | 66.5 |



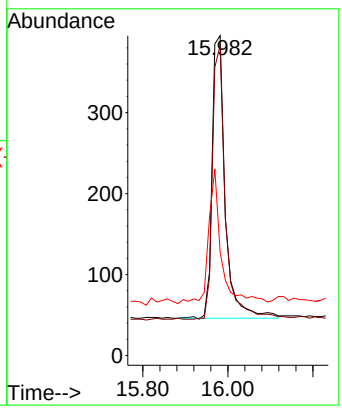


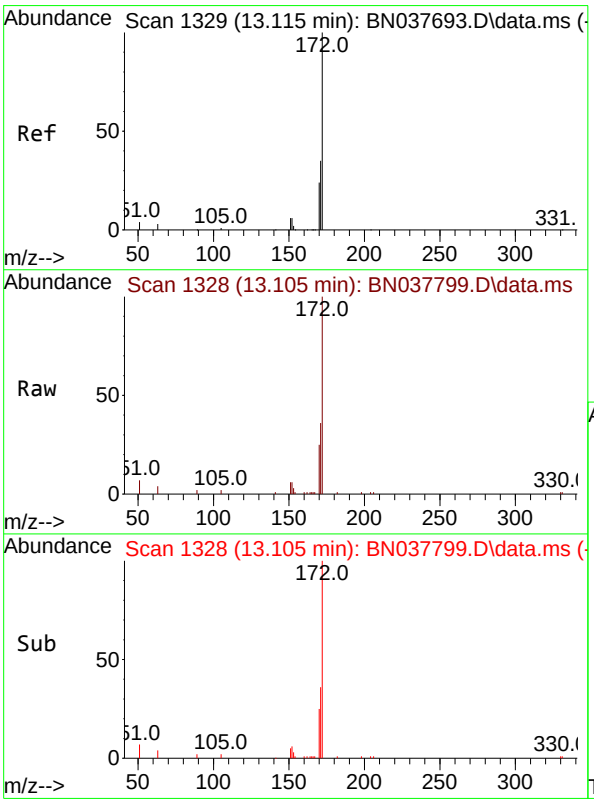

#14
2,4,6-Tribromophenol
Concen: 0.401 ng
RT: 15.982 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN037799.D
Acq: 19 Sep 2025 05:13

**Instrument :**
BNA_N
**ClientSampleId :**
TT180D-20250911

Tgt Ion:330 Resp: 752

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 330 | 100 | | |
| 332 | 95.1 | 75.3 | 112.9 |
| 141 | 46.9 | 35.0 | 52.4 |

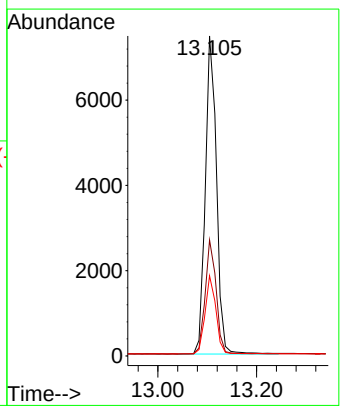


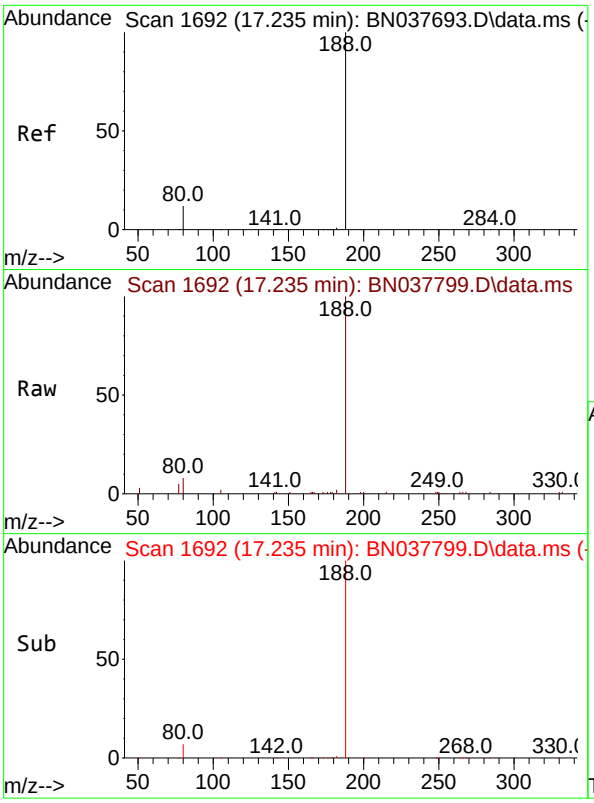




#15
2-Fluorobiphenyl
Concen: 0.390 ng
RT: 13.105 min Scan# 1328
Delta R.T. -0.011 min
Lab File: BN037799.D
Acq: 19 Sep 2025 05:13

Tgt Ion:172 Resp: 11713

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 172 | 100 | | |
| 171 | 36.3 | 28.6 | 43.0 |
| 170 | 25.0 | 19.8 | 29.8 |



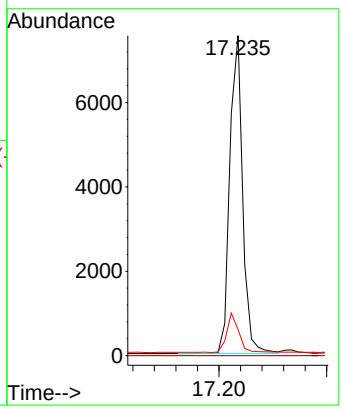


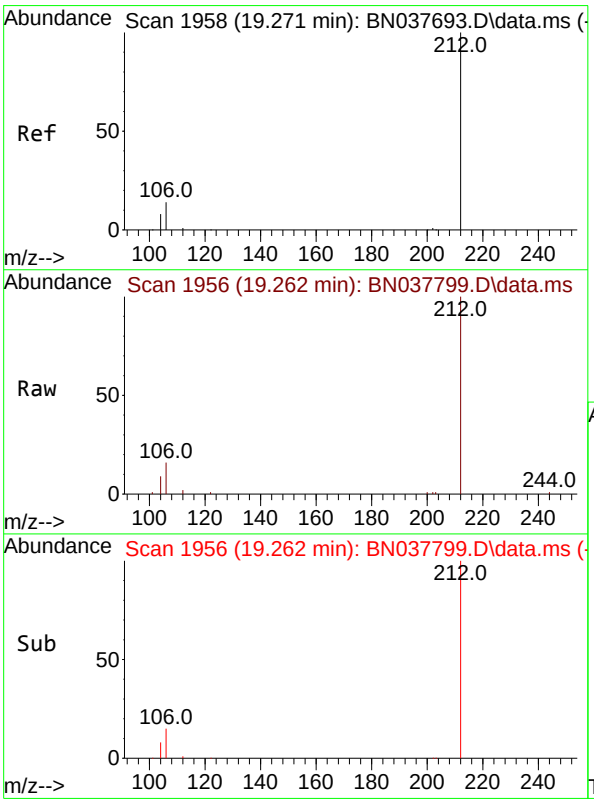

#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.235 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN037799.D
Acq: 19 Sep 2025 05:13

**Instrument :**
BNA_N
**ClientSampleId :**
TT180D-20250911

Tgt Ion:188 Resp: 12481

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 188 | 100 | | |
| 94 | 0.0 | 0.0 | 0.0 |
| 80 | 8.2 | 10.6 | 15.8# |

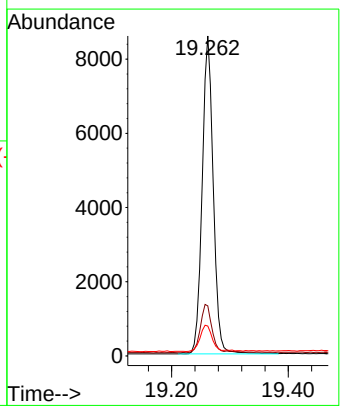


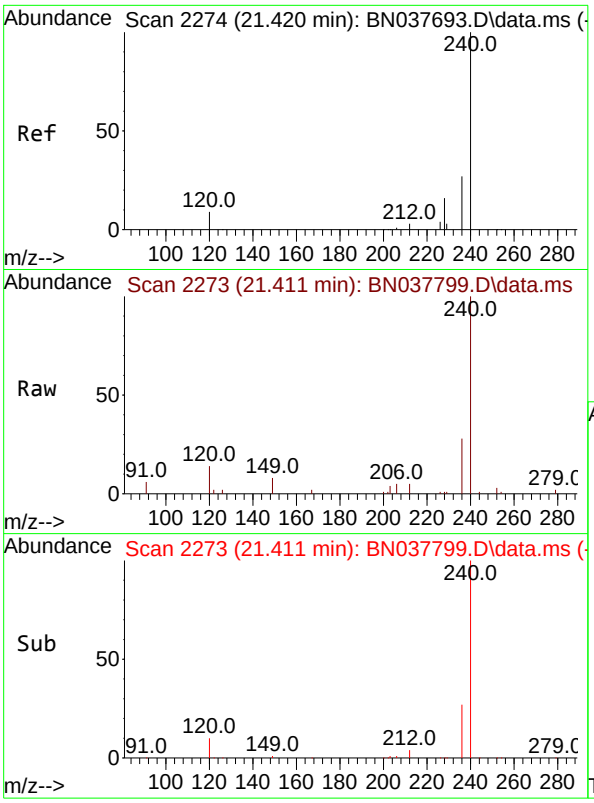




#27
Fluoranthene-d10
Concen: 0.364 ng
RT: 19.262 min Scan# 1956
Delta R.T. -0.009 min
Lab File: BN037799.D
Acq: 19 Sep 2025 05:13

Tgt Ion:212 Resp: 11399

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 212 | 100 | | |
| 106 | 16.2 | 12.2 | 18.2 |
| 104 | 8.9 | 6.9 | 10.3 |



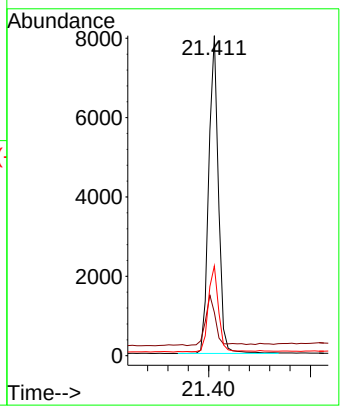


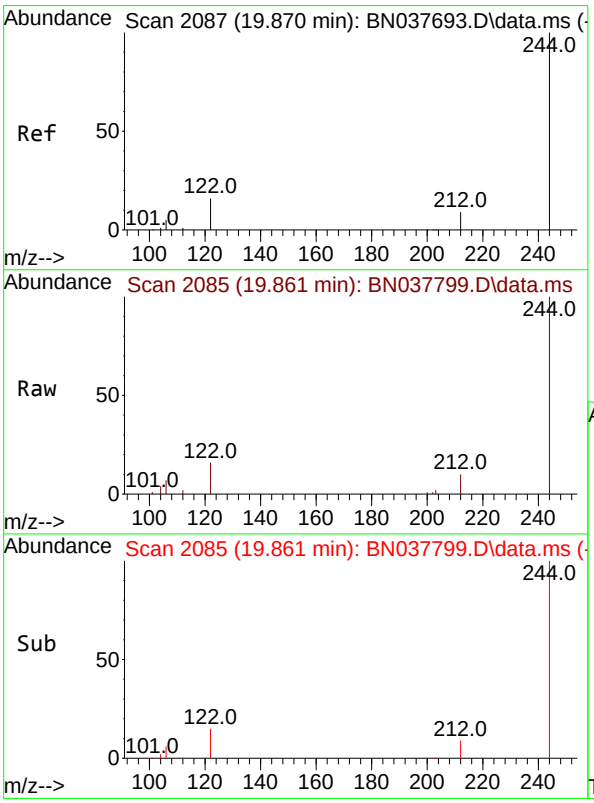

#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.411 min Scan# 2
Delta R.T. -0.009 min
Lab File: BN037799.D
Acq: 19 Sep 2025 05:13

**Instrument :**
BNA_N
**ClientSampleId :**
TT180D-20250911

Tgt Ion:240 Resp: 10625

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 240 | 100 | | |
| 120 | 13.5 | 9.2 | 13.8 |
| 236 | 28.1 | 22.6 | 33.8 |

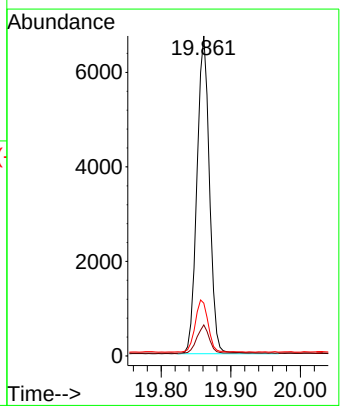


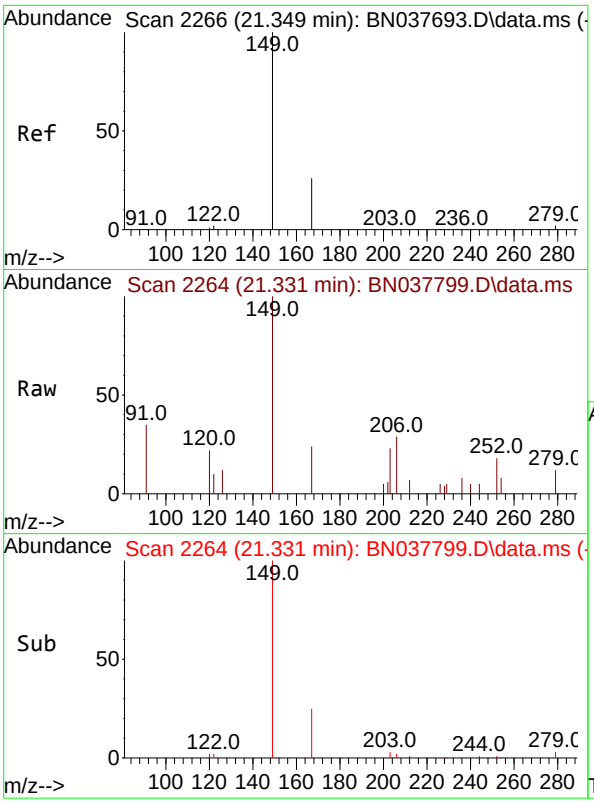




#31
Terphenyl-d14
Concen: 0.389 ng
RT: 19.861 min Scan# 2085
Delta R.T. -0.009 min
Lab File: BN037799.D
Acq: 19 Sep 2025 05:13

Tgt Ion:244 Resp: 8383

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 244 | 100 | | |
| 212 | 9.7 | 7.5 | 11.3 |
| 122 | 16.5 | 13.2 | 19.8 |



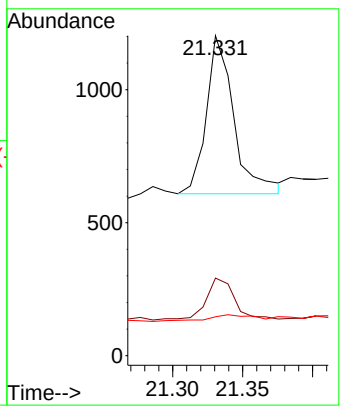


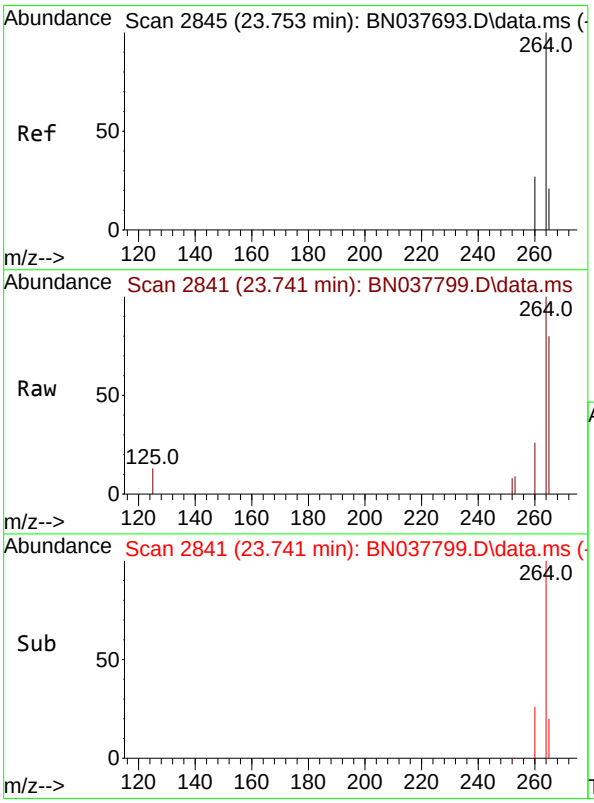

#34
Bis(2-ethylhexyl)phthalate
Concen: 0.074 ng
RT: 21.331 min Scan# 2
Delta R.T. -0.018 min
Lab File: BN037799.D
Acq: 19 Sep 2025 05:13

**Instrument :**
BNA_N
**ClientSampleId :**
TT180D-20250911

Tgt Ion:149 Resp: 816

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 149 | 100 | | |
| 167 | 27.8 | 20.8 | 31.2 |
| 279 | 7.0 | 3.3 | 4.9# |

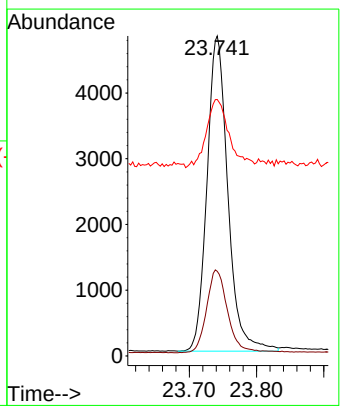



#35
Perylene-d12
Concen: 0.400 ng
RT: 23.741 min Scan# 2841
Delta R.T. -0.012 min
Lab File: BN037799.D
Acq: 19 Sep 2025 05:13

Tgt Ion:264 Resp: 10338

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 264 | 100 | | |
| 260 | 26.5 | 21.8 | 32.8 |
| 265 | 80.2 | 39.4 | 59.2# |



Raw Data: **BN037800.D**

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

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | AECOM Technical Services, Inc. | Date Collected: | 09/11/25 |
| Project: | NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258 | Date Received: | 09/12/25 |
| Client Sample ID: | RE122D3-20250911 | SDG No.: | Q3095 |
| Lab Sample ID: | Q3095-32 | Matrix: | Water |
| Analytical Method: | SW8270ESIM | % Solid: | 0 |
| Sample Wt/Vol: | 1000 Units: mL | Final Vol: | 1000 uL |
| Soil Aliquot Vol: | uL | Test: | SVOC-SIMGroup1 |
| Extraction Type : | Decanted : N | Level : | LOW |
| Injection Volume : | GPC Factor : 1.0 | GPC Cleanup : | N PH : |
| Prep Method : | | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| BN037800.D | 1 | 09/15/25 12:00 | 09/19/25 05:49 | PB169693 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOD | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | | |
| 123-91-1 | 1,4-Dioxane | 0.20 | U | 0.070 | 0.20 | 0.20 | ug/L |
| **SURROGATES** | | | | | | | |
| 7297-45-2 | 2-Methylnaphthalene-d10 | 0.35 | | 30 - 150 | | 86% | SPK: 0.4 |
| 93951-69-0 | Fluoranthene-d10 | 0.38 | | 30 - 150 | | 96% | SPK: 0.4 |
| 4165-60-0 | Nitrobenzene-d5 | 0.39 | | 55 - 111 | | 98% | SPK: 0.4 |
| 321-60-8 | 2-Fluorobiphenyl | 0.39 | | 53 - 106 | | 98% | SPK: 0.4 |
| 1718-51-0 | Terphenyl-d14 | 0.41 | | 58 - 132 | | 103% | SPK: 0.4 |
| **INTERNAL STANDARDS** | | | | | | | |
| 3855-82-1 | 1,4-Dichlorobenzene-d4 | 5970 | 7.833 | | | | |
| 1146-65-2 | Naphthalene-d8 | 15700 | 10.637 | | | | |
| 15067-26-2 | Acenaphthene-d10 | 6880 | 14.484 | | | | |
| 1517-22-2 | Phenanthrene-d10 | 11800 | 17.235 | | | | |
| 1719-03-5 | Chrysene-d12 | 9880 | 21.411 | | | | |
| 1520-96-3 | Perylene-d12 | 9590 | 23.739 | | | | |

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\BN091825\
Data File : BN037800.D
Acq On : 19 Sep 2025 05:49
Operator : RC/JU
Sample : Q3095-32
Misc :
ALS Vial : 25 Sample Multiplier: 1

**Instrument :**
BNA_N
**ClientSampleId :**
RE122D3-20250911

Quant Time: Sep 19 07:43:00 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN091125.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Sep 11 14:20:01 2025
Response via : Initial Calibration

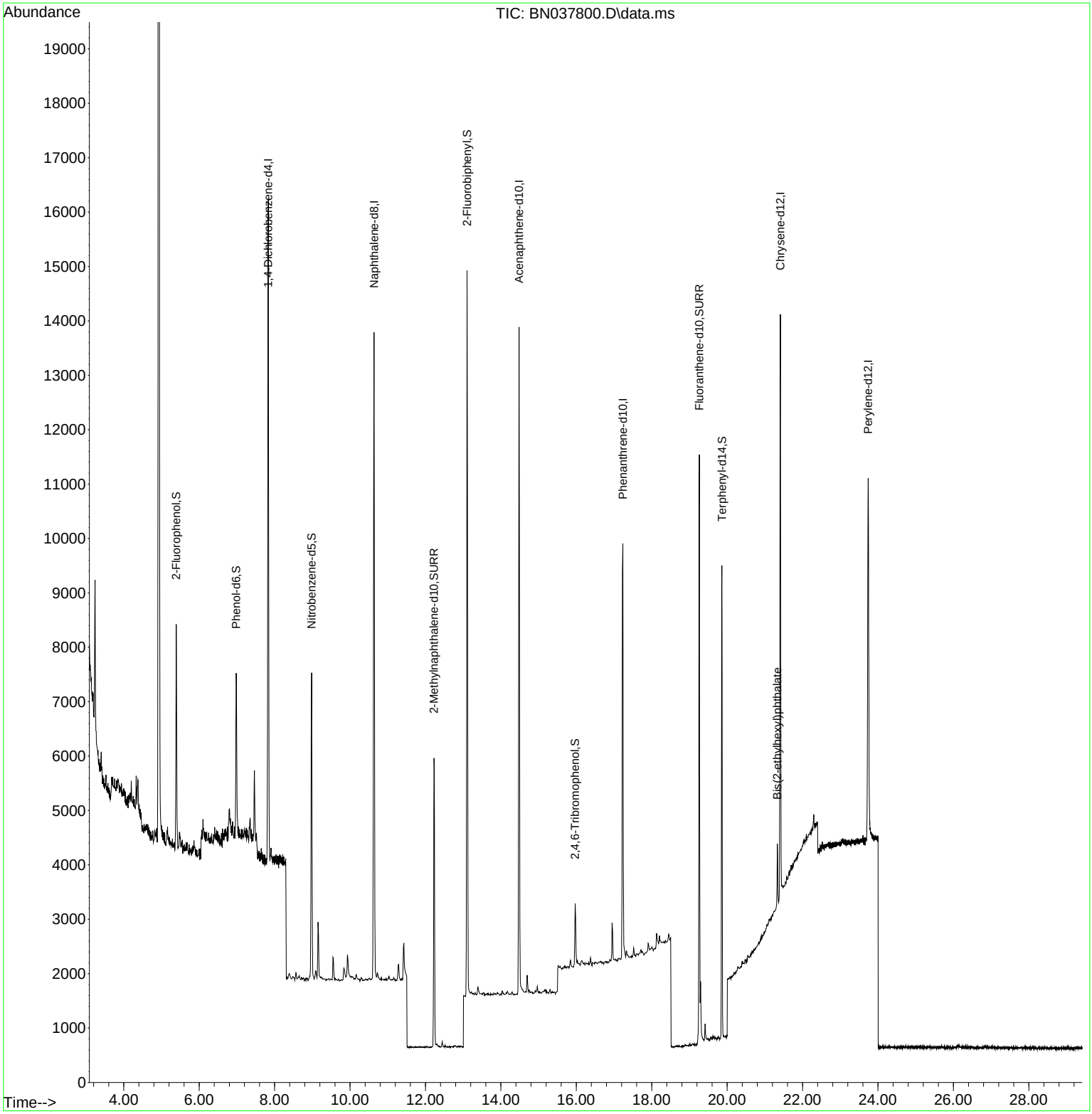
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) 1,4-Dichlorobenzene-d4 | 7.833 | 152 | 5969 | 0.400 | ng | 0.00 |
| 7) Naphthalene-d8 | 10.637 | 136 | 15717 | 0.400 | ng | -0.01 |
| 13) Acenaphthene-d10 | 14.484 | 164 | 6882 | 0.400 | ng | -0.01 |
| 19) Phenanthrene-d10 | 17.235 | 188 | 11849 | 0.400 | ng | # 0.00 |
| 29) Chrysene-d12 | 21.411 | 240 | 9882 | 0.400 | ng | 0.00 |
| 35) Perylene-d12 | 23.739 | 264 | 9588 | 0.400 | ng | #-0.01 |
| System Monitoring Compounds | | | | | | |
| 4) 2-Fluorophenol | 5.392 | 112 | 3155 | 0.230 | ng | 0.00 |
| 5) Phenol-d6 | 6.980 | 99 | 2700 | 0.152 | ng | 0.00 |
| 8) Nitrobenzene-d5 | 8.982 | 82 | 4524 | 0.394 | ng | -0.01 |
| 11) 2-Methylnaphthalene-d10 | 12.227 | 152 | 7207 | 0.346 | ng | -0.02 |
| 14) 2,4,6-Tribromophenol | 15.969 | 330 | 723 | 0.403 | ng | -0.01 |
| 15) 2-Fluorobiphenyl | 13.105 | 172 | 11287 | 0.392 | ng | -0.01 |
| 27) Fluoranthene-d10 | 19.262 | 212 | 11407 | 0.383 | ng | 0.00 |
| 31) Terphenyl-d14 | 19.861 | 244 | 8265 | 0.412 | ng | 0.00 |
| Target Compounds | | | | | | Qvalue |
| 34) Bis(2-ethylhexyl)phtha... | 21.331 | 149 | 1232 | 0.121 | ng | # 99 |

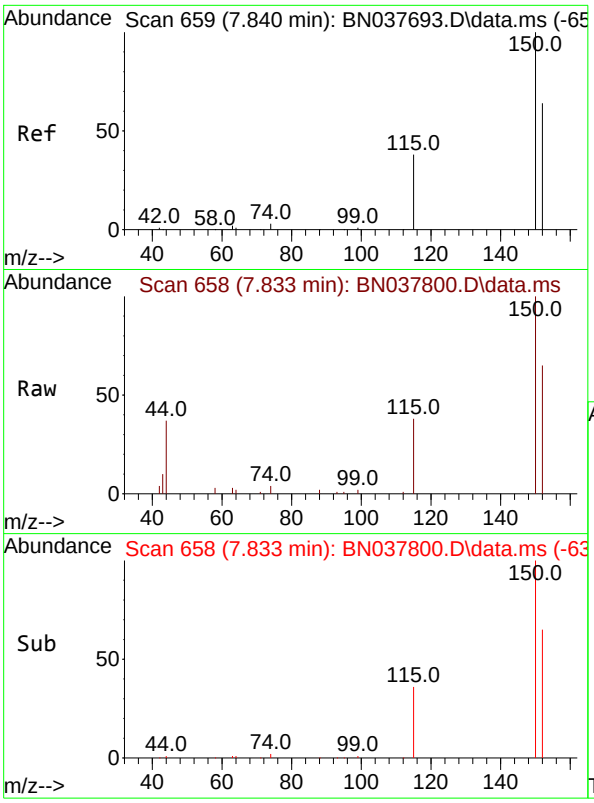
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN091825\
Data File : BN037800.D
Acq On : 19 Sep 2025 05:49
Operator : RC/JU
Sample : Q3095-32
Misc :
ALS Vial : 25 Sample Multiplier: 1

**Instrument :**
BNA_N
**ClientSampleId :**
RE122D3-20250911

Quant Time: Sep 19 07:43:00 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN091125.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Sep 11 14:20:01 2025
Response via : Initial Calibration



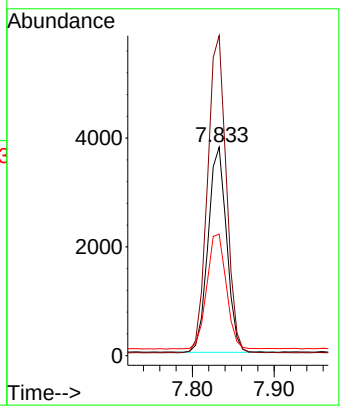


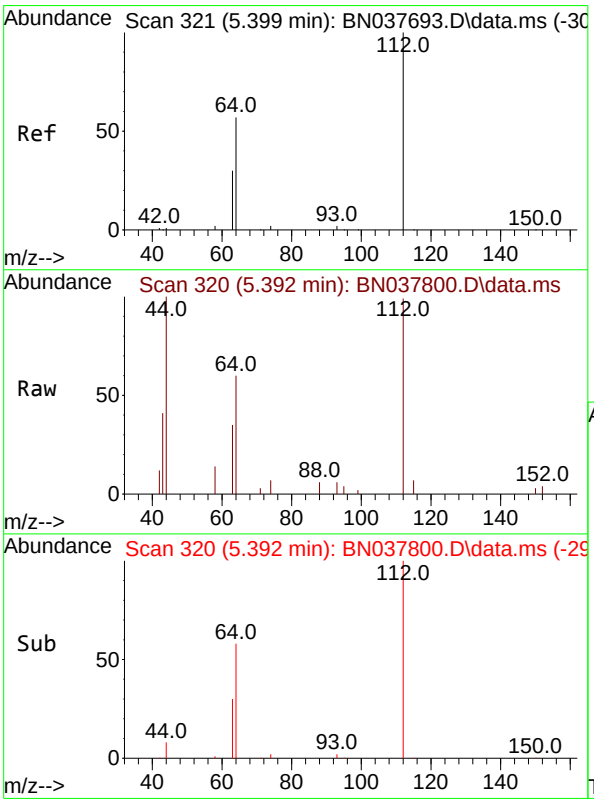

#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.833 min Scan# 6
Delta R.T. -0.007 min
Lab File: BN037800.D
Acq: 19 Sep 2025 05:49

**Instrument :**
BNA_N
**ClientSampleId :**
RE122D3-20250911

Tgt Ion:152 Resp: 5969

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 150 | 153.5 | 124.5 | 186.7 |
| 115 | 58.3 | 49.2 | 73.8 |

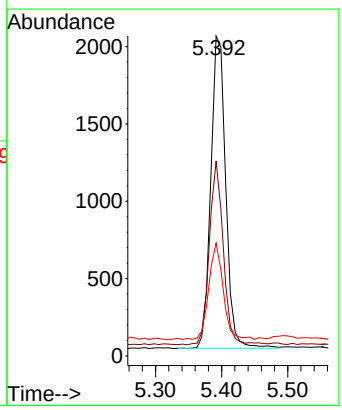


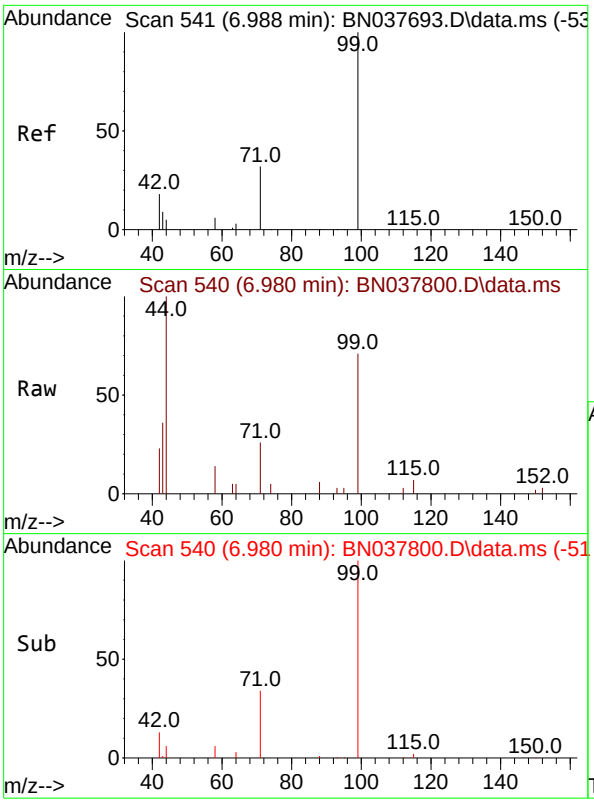




#4
2-Fluorophenol
Concen: 0.230 ng
RT: 5.392 min Scan# 320
Delta R.T. -0.007 min
Lab File: BN037800.D
Acq: 19 Sep 2025 05:49

Tgt Ion:112 Resp: 3155

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 112 | 100 | | |
| 64 | 54.7 | 44.9 | 67.3 |
| 63 | 29.5 | 24.7 | 37.1 |



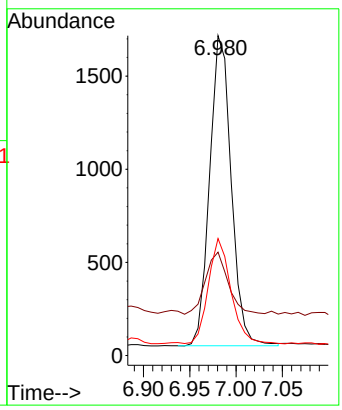


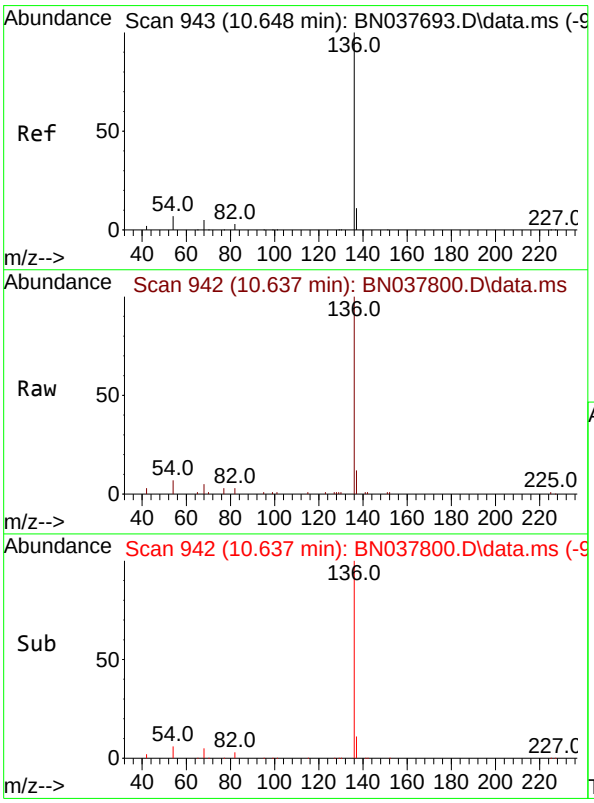

#5
Phenol-d6
Concen: 0.152 ng
RT: 6.980 min Scan# 54
Delta R.T. -0.007 min
Lab File: BN037800.D
Acq: 19 Sep 2025 05:49

**Instrument :**
BNA_N
**ClientSampleId :**
RE122D3-20250911

Tgt Ion: 99 Resp: 2700

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 99 | 100 | | |
| 42 | 21.0 | 16.6 | 24.8 |
| 71 | 36.1 | 26.7 | 40.1 |

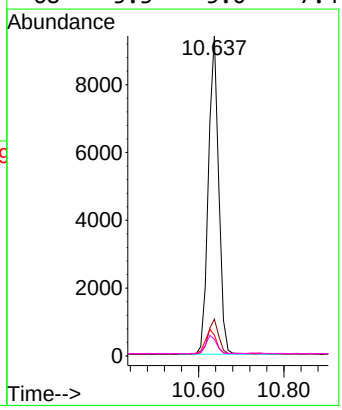


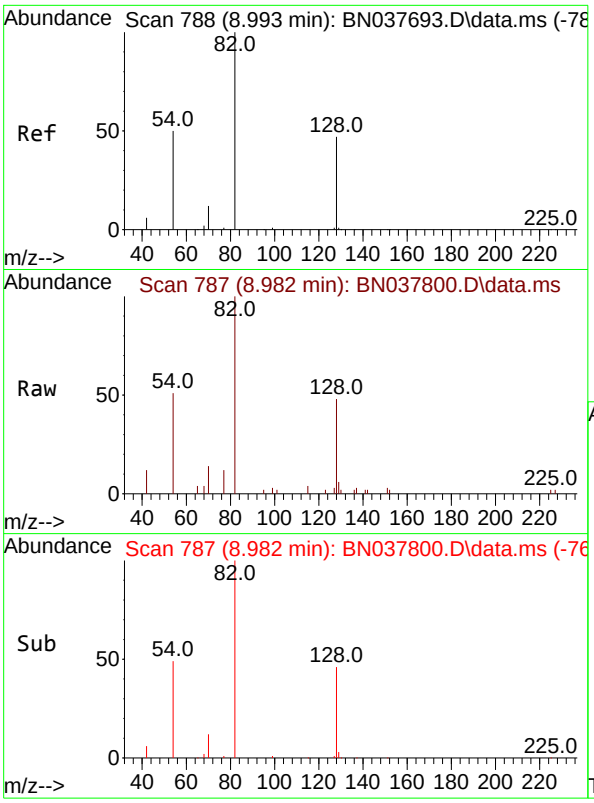




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.637 min Scan# 942
Delta R.T. -0.011 min
Lab File: BN037800.D
Acq: 19 Sep 2025 05:49

Tgt Ion:136 Resp: 15717

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 136 | 100 | | |
| 137 | 11.5 | 9.1 | 13.7 |
| 54 | 6.6 | 6.3 | 9.5 |
| 68 | 5.3 | 5.0 | 7.4 |



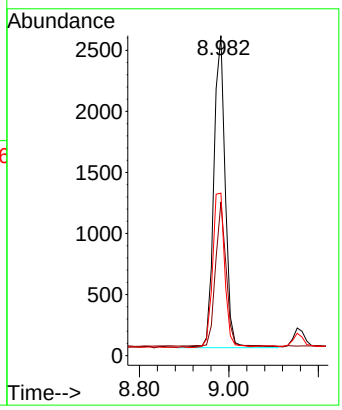


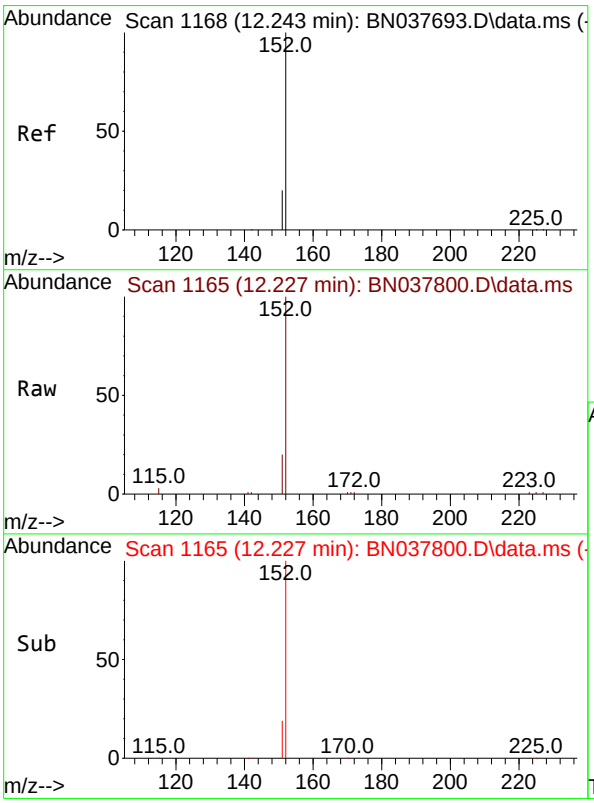

#8
Nitrobenzene-d5
Concen: 0.394 ng
RT: 8.982 min Scan# 7
Delta R.T. -0.011 min
Lab File: BN037800.D
Acq: 19 Sep 2025 05:49

**Instrument :**
BNA_N
**ClientSampleId :**
RE122D3-20250911

Tgt Ion: 82 Resp: 4524

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 82 | 100 | | |
| 128 | 48.0 | 38.3 | 57.5 |
| 54 | 50.8 | 41.4 | 62.2 |

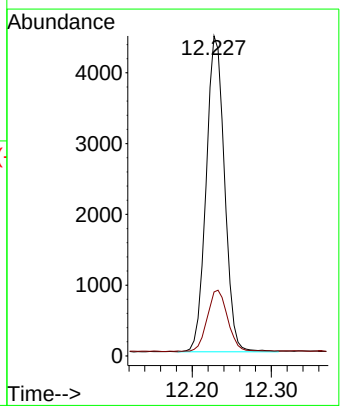


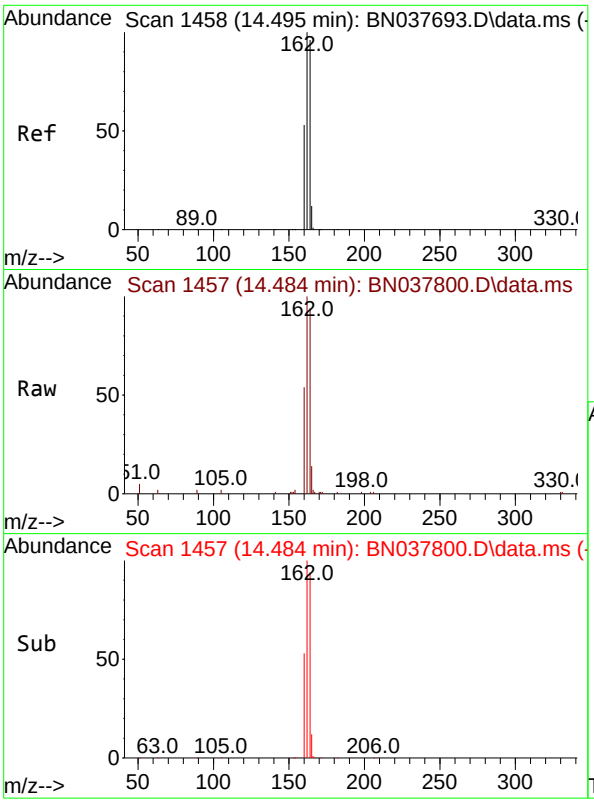




#11
2-Methylnaphthalene-d10
Concen: 0.346 ng
RT: 12.227 min Scan# 1165
Delta R.T. -0.015 min
Lab File: BN037800.D
Acq: 19 Sep 2025 05:49

Tgt Ion:152 Resp: 7207

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 151 | 21.5 | 17.0 | 25.6 |



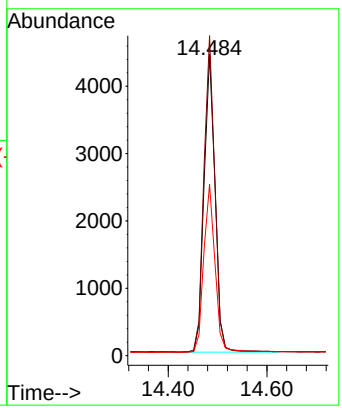


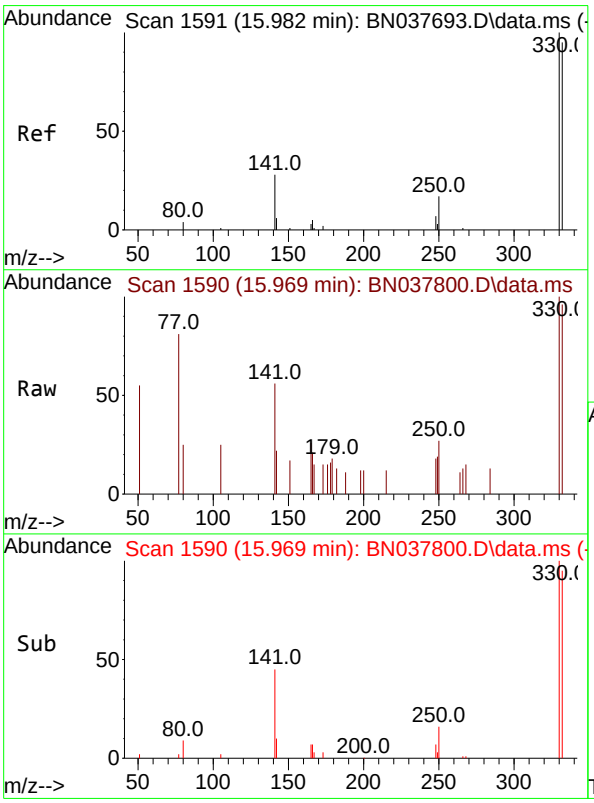

#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.484 min Scan# 14
Delta R.T. -0.011 min
Lab File: BN037800.D
Acq: 19 Sep 2025 05:49

**Instrument :**
BNA_N
**ClientSampleId :**
RE122D3-20250911

Tgt Ion:164 Resp: 6882

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 164 | 100 | | |
| 162 | 106.2 | 83.1 | 124.7 |
| 160 | 56.9 | 44.3 | 66.5 |

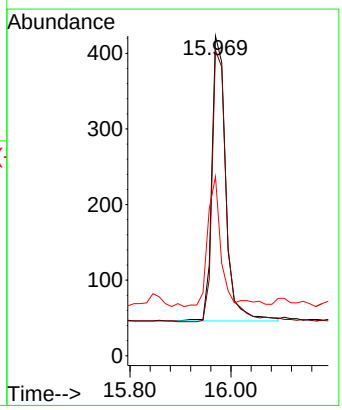


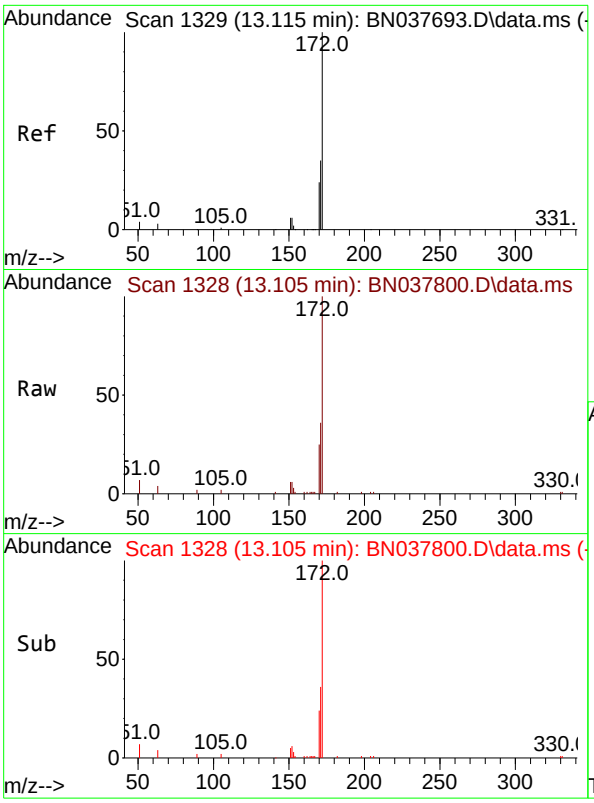




#14
2,4,6-Tribromophenol
Concen: 0.403 ng
RT: 15.969 min Scan# 1590
Delta R.T. -0.013 min
Lab File: BN037800.D
Acq: 19 Sep 2025 05:49

Tgt Ion:330 Resp: 723

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 330 | 100 | | |
| 332 | 96.7 | 75.3 | 112.9 |
| 141 | 42.6 | 35.0 | 52.4 |



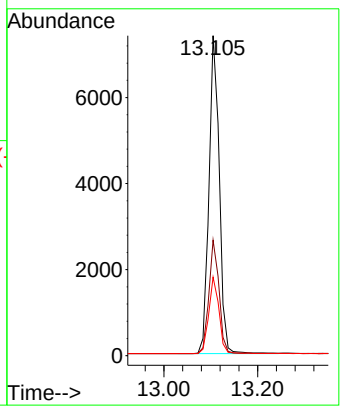


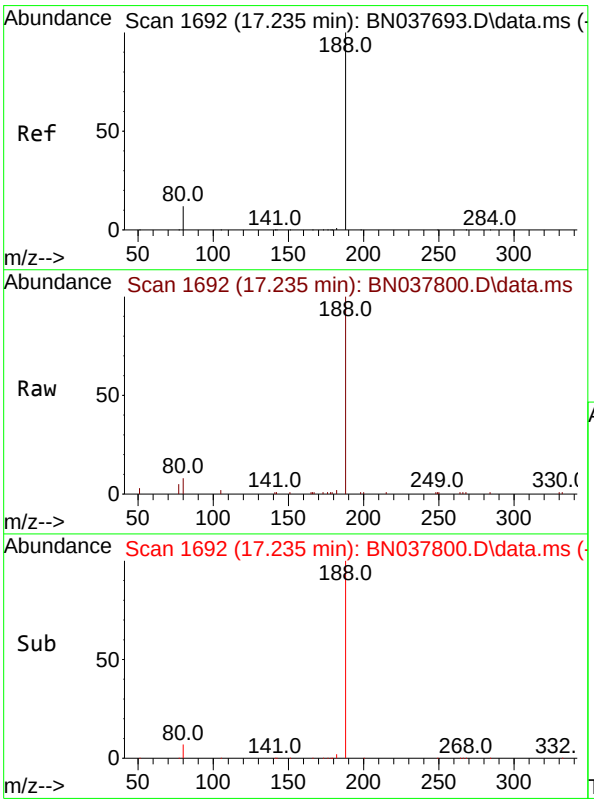

#15
2-Fluorobiphenyl
Concen: 0.392 ng
RT: 13.105 min Scan# 1
Delta R.T. -0.011 min
Lab File: BN037800.D
Acq: 19 Sep 2025 05:49

**Instrument :**
BNA_N
**ClientSampleId :**
RE122D3-20250911

Tgt Ion:172 Resp: 11287

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 172 | 100 | | |
| 171 | 36.1 | 28.6 | 43.0 |
| 170 | 24.6 | 19.8 | 29.8 |

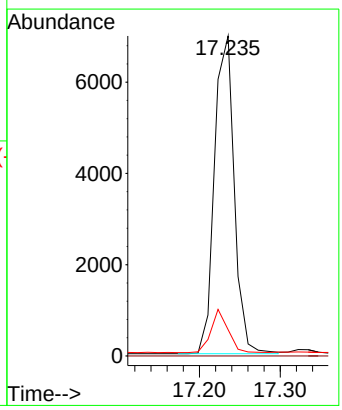


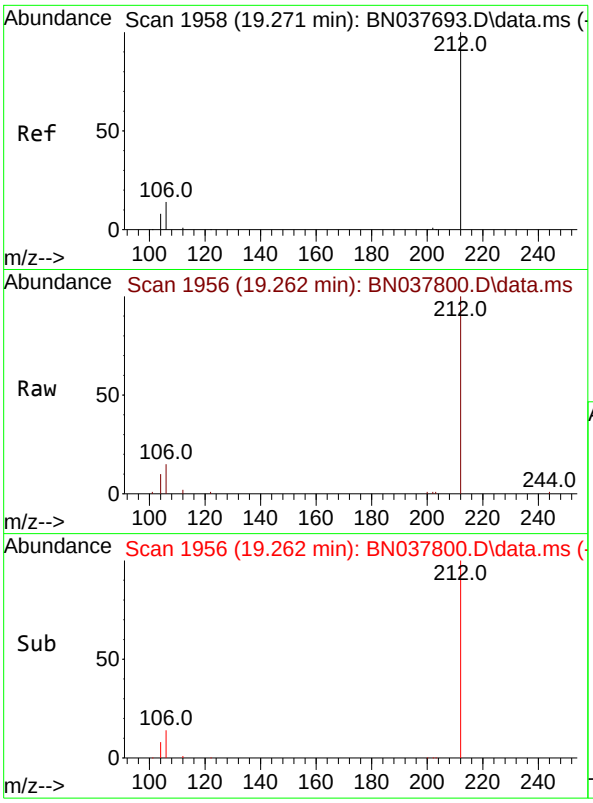




#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.235 min Scan# 1692
Delta R.T. -0.000 min
Lab File: BN037800.D
Acq: 19 Sep 2025 05:49

Tgt Ion:188 Resp: 11849

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 188 | 100 | | |
| 94 | 0.0 | 0.0 | 0.0 |
| 80 | 8.2 | 10.6 | 15.8# |



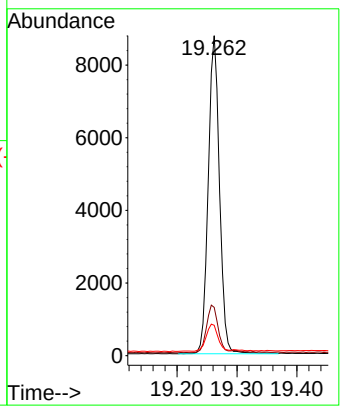


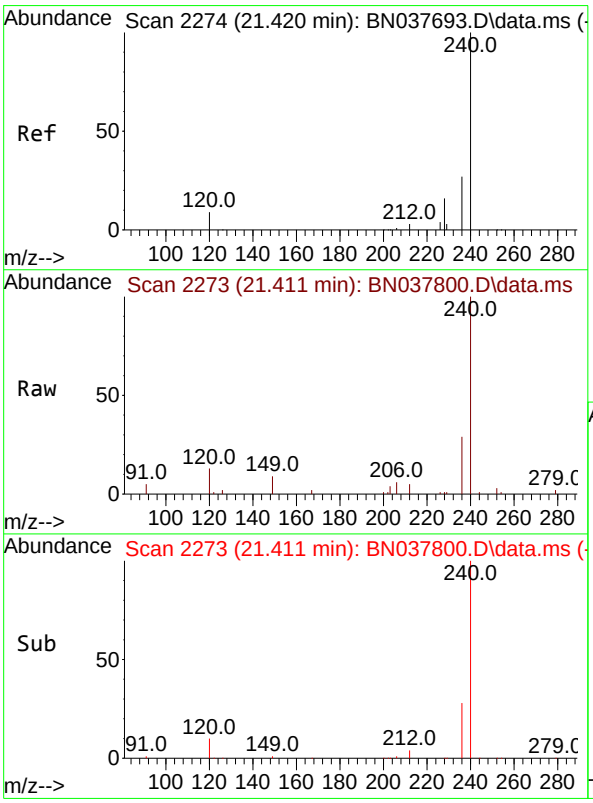

#27
Fluoranthene-d10
Concen: 0.383 ng
RT: 19.262 min Scan# 1
Delta R.T. -0.009 min
Lab File: BN037800.D
Acq: 19 Sep 2025 05:49

**Instrument :**
BNA_N
**ClientSampleId :**
RE122D3-20250911

Tgt Ion:212 Resp: 11407

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 212 | 100 | | |
| 106 | 15.3 | 12.2 | 18.2 |
| 104 | 8.8 | 6.9 | 10.3 |

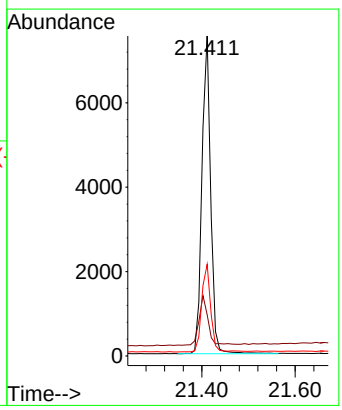


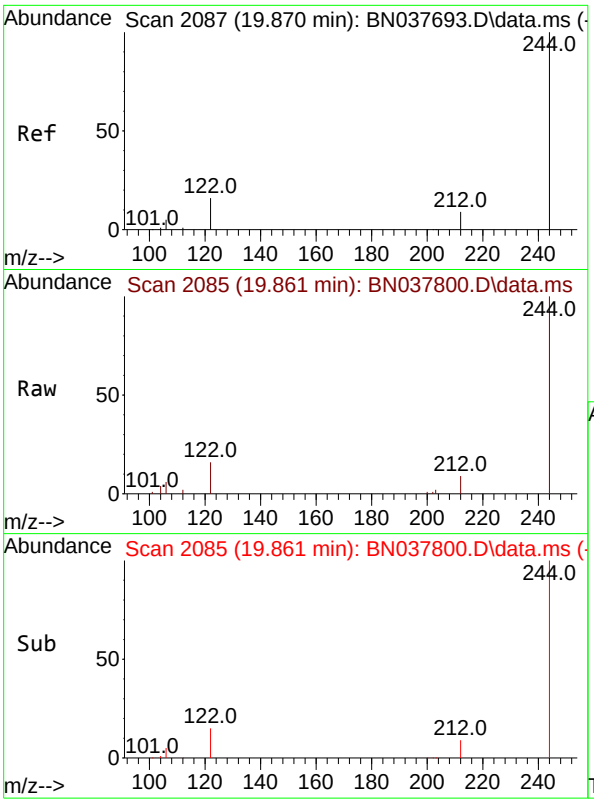




#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.411 min Scan# 2273
Delta R.T. -0.009 min
Lab File: BN037800.D
Acq: 19 Sep 2025 05:49

Tgt Ion:240 Resp: 9882

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 240 | 100 | | |
| 120 | 12.9 | 9.2 | 13.8 |
| 236 | 28.6 | 22.6 | 33.8 |



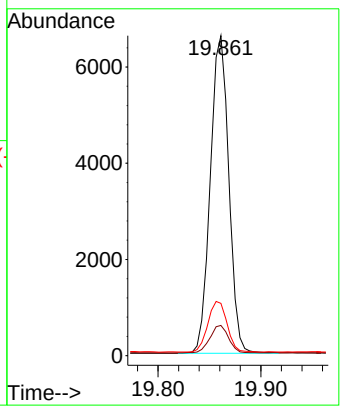


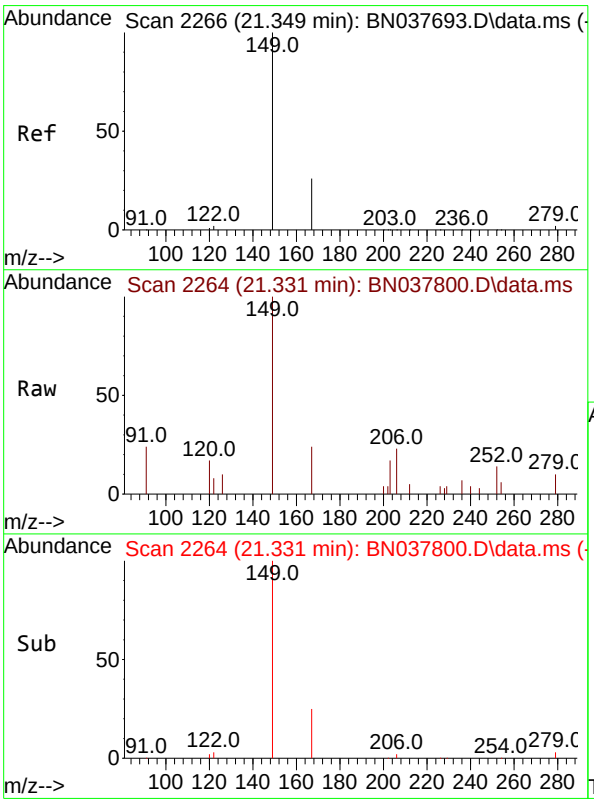

#31
Terphenyl-d14
Concen: 0.412 ng
RT: 19.861 min Scan# 2
Delta R.T. -0.009 min
Lab File: BN037800.D
Acq: 19 Sep 2025 05:49

**Instrument :**
BNA_N
**ClientSampleId :**
RE122D3-20250911

Tgt Ion:244 Resp: 8265

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 244 | 100 | | |
| 212 | 9.5 | 7.5 | 11.3 |
| 122 | 16.3 | 13.2 | 19.8 |

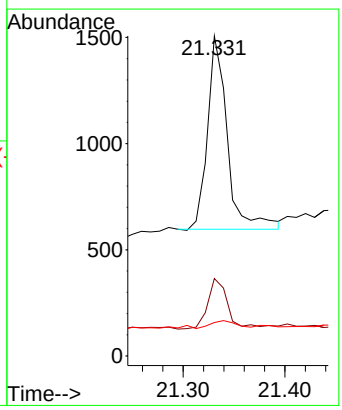


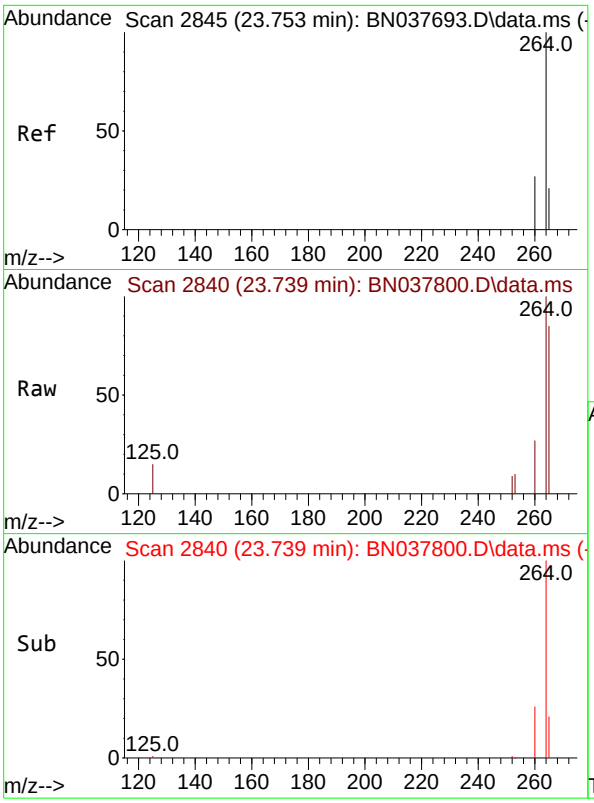




#34
Bis(2-ethylhexyl)phthalate
Concen: 0.121 ng
RT: 21.331 min Scan# 2264
Delta R.T. -0.018 min
Lab File: BN037800.D
Acq: 19 Sep 2025 05:49

Tgt Ion:149 Resp: 1232

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 149 | 100 | | |
| 167 | 26.2 | 20.8 | 31.2 |
| 279 | 5.0 | 3.3 | 4.9# |



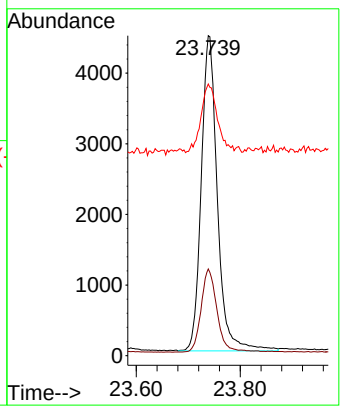



#35
Perylene-d12
Concen: 0.400 ng
RT: 23.739 min Scan# 2
Delta R.T. -0.015 min
Lab File: BN037800.D
Acq: 19 Sep 2025 05:49

**Instrument :**
BNA_N
**ClientSampleId :**
RE122D3-20250911

Tgt Ion:264 Resp: 9588

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 264 | 100 | | |
| 260 | 27.1 | 21.8 | 32.8 |
| 265 | 84.9 | 39.4 | 59.2# |



# CALIBRATION SUMMARY

Raw Data

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

6C

SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: Alliance Contract: AECO15

Lab Code: ACE SDG No.: Q3095

Instrument ID: BNA_N Calibration Date(s): 09/11/2025 09/11/2025

Calibration Time(s): 09:56 13:33

LAB FILE ID: RRF0.1 = BN037691.D RRF0.2 = BN037692.D RRF0.4 = BN037693.D
RRF0.8 = BN037694.D RRF1.6 = BN037695.D RRF3.2 = BN037696.D

| COMPOUND | RRF0.1 | RRF0.2 | RRF0.4 | RRF0.8 | RRF1.6 | RRF3.2 | RRF | % RSD |
|---|---|---|---|---|---|---|---|---|
| 2-Methylnaphthalene-d10 | 0.497 | 0.497 | 0.498 | 0.478 | 0.522 | 0.550 | 0.530 | 12.3 |
| Fluoranthene-d10 | 0.912 | 0.887 | 0.935 | 0.883 | 0.954 | 1.108 | 1.004 | 17.0 |
| 2-Fluorophenol | 0.929 | 0.913 | 0.892 | 0.840 | 0.912 | 0.937 | 0.918 | 5.4 |
| Phenol-d6 | 1.191 | 1.193 | 1.156 | 1.088 | 1.193 | 1.225 | 1.191 | 5.1 |
| Nitrobenzene-d5 | 0.287 | 0.279 | 0.285 | 0.272 | 0.296 | 0.303 | 0.293 | 6.0 |
| 2-Fluorobiphenyl | 1.663 | 1.666 | 1.649 | 1.586 | 1.689 | 1.674 | 1.673 | 3.5 |
| 2,4,6-Tribromophenol | 0.088 | 0.098 | 0.101 | 0.096 | 0.113 | 0.131 | 0.104 | 14.7 |
| Terphenyl-d14 | 0.806 | 0.833 | 0.801 | 0.754 | 0.812 | 0.784 | 0.812 | 5.3 |
| 1,4-Dioxane | | 0.429 | 0.422 | 0.411 | 0.432 | 0.418 | 0.417 | 3.8 |

All other compounds must meet a minimum RRF of 0.010.

Response Factor Report BNA_N

Method Path : Z:\svoasrv\HPCHEM1\BNA_N\Methods\
Method File : 8270-SIM-BN091125.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
Last Update : Thu Sep 11 14:20:01 2025
Response Via : Initial Calibration

Calibration Files
0.1 =BN037691.D 0.2 =BN037692.D 0.4 =BN037693.D 0.8 =BN037694.D 1.6 =BN037695.D 3.2 =BN037696.D 5 =BN037697.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 | 0.429 | 0.422 | 0.411 | 0.432 | 0.418 | 0.388 | 0.417 | | 3.80 |
| 3) | | n-Nitrosodimet... | 0.530 | 0.564 | 0.515 | 0.556 | 0.550 | 0.551 | 0.544 | | 3.34 |
| 4) | S | 2-Fluorophenol | 0.929 | 0.913 | 0.892 | 0.840 | 0.912 | 0.937 | 1.004 | 0.918 | 5.37 |
| 5) | S | Phenol-d6 | 1.191 | 1.193 | 1.156 | 1.088 | 1.193 | 1.225 | 1.289 | 1.191 | 5.15 |
| 6) | | bis(2-Chloroet... | 1.076 | 1.075 | 1.070 | 1.019 | 1.078 | 1.066 | 1.063 | 1.064 | 1.94 |
| 7) | I | Naphthalene-d8 | ----------ISTD---------- | | | | | | | | |
| 8) | S | Nitrobenzene-d5 | 0.287 | 0.279 | 0.285 | 0.272 | 0.296 | 0.303 | 0.325 | 0.293 | 6.05 |
| 9) | | Naphthalene | 1.091 | 1.072 | 1.074 | 1.036 | 1.117 | 1.115 | 1.149 | 1.093 | 3.38 |
| 10) | | Hexachlorobuta... | 0.199 | 0.196 | 0.197 | 0.189 | 0.203 | 0.199 | 0.202 | 0.198 | 2.29 |
| 11) | SURR | 2-Methylnaphth... | 0.497 | 0.497 | 0.498 | 0.478 | 0.522 | 0.550 | 0.668 | 0.530 | 12.31 |
| 12) | | 2-Methylnaphth... | 0.643 | 0.651 | 0.659 | 0.633 | 0.697 | 0.712 | 0.740 | 0.676 | 5.91 |
| 13) | I | Acenaphthene-d10 | ----------ISTD---------- | | | | | | | | |
| 14) | S | 2,4,6-Tribromo... | 0.088 | 0.098 | 0.101 | 0.096 | 0.113 | 0.131 | | 0.104 | 14.74 |
| 15) | S | 2-Fluorobiphenyl | 1.663 | 1.666 | 1.649 | 1.586 | 1.689 | 1.674 | 1.785 | 1.673 | 3.54 |
| 16) | | Acenaphthylene | 1.754 | 1.756 | 1.783 | 1.727 | 1.885 | 1.916 | 2.020 | 1.834 | 5.90 |
| 17) | | Acenaphthene | 1.165 | 1.199 | 1.215 | 1.187 | 1.272 | 1.296 | 1.348 | 1.240 | 5.37 |
| 18) | | Fluorene | 1.404 | 1.402 | 1.441 | 1.419 | 1.545 | 1.633 | 1.671 | 1.502 | 7.59 |
| 19) | I | Phenanthrene-d10 | ----------ISTD---------- | | | | | | | | |
| 20) | | 4,6-Dinitro-2-... | 0.032 | 0.033 | 0.033 | 0.040 | 0.046 | | 0.037 | | 16.34 |
| 21) | | 4-Bromophenyl-... | 0.250 | 0.252 | 0.251 | 0.248 | 0.272 | 0.269 | 0.284 | 0.261 | 5.43 |
| 22) | | Hexachlorobenzene | 0.301 | 0.308 | 0.294 | 0.280 | 0.305 | 0.302 | 0.310 | 0.300 | 3.39 |
| 23) | | Atrazine | 0.145 | 0.151 | 0.152 | 0.146 | 0.169 | 0.190 | 0.209 | 0.166 | 15.00 |
| 24) | | Pentachlorophenol | 0.074 | 0.074 | 0.073 | 0.086 | 0.100 | 0.115 | 0.087 | | 19.46 |
| 25) | | Phenanthrene | 1.228 | 1.215 | 1.223 | 1.173 | 1.285 | 1.321 | 1.371 | 1.259 | 5.47 |
| 26) | | Anthracene | 1.038 | 1.029 | 1.070 | 1.030 | 1.140 | 1.221 | 1.281 | 1.116 | 9.09 |
| 27) | SURR | Fluoranthene-d10 | 0.912 | 0.887 | 0.935 | 0.883 | 0.954 | 1.108 | 1.350 | 1.004 | 16.98 |
| 28) | | Fluoranthene | 1.257 | 1.224 | 1.310 | 1.269 | 1.393 | 1.578 | 1.637 | 1.381 | 11.91 |
| 29) | I | Chrysene-d12 | ----------ISTD---------- | | | | | | | | |
| 30) | | Pyrene | 1.578 | 1.618 | 1.557 | 1.473 | 1.603 | 1.542 | 1.590 | 1.566 | 3.09 |
| 31) | S | Terphenyl-d14 | 0.806 | 0.833 | 0.801 | 0.754 | 0.812 | 0.784 | 0.892 | 0.812 | 5.30 |
| 32) | | Benzo(a)anthra... | 1.386 | 1.345 | 1.347 | 1.297 | 1.410 | 1.459 | 1.522 | 1.395 | 5.46 |
| 33) | | Chrysene | 1.523 | 1.491 | 1.496 | 1.402 | 1.510 | 1.506 | 1.543 | 1.496 | 3.01 |
| 34) | | Bis(2-ethylhex... | 0.440 | 0.376 | 0.345 | 0.380 | 0.438 | 0.504 | 0.414 | | 13.96 |
| 35) | I | Perylene-d12 | ----------ISTD---------- | | | | | | | | |

Method Path : Z:\svoasrv\HPCHEM1\BNA_N\Methods\
Method File : 8270-SIM-BN091125.M

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| 36) | | Indeno(1,2,3-c... | 1.517 | 1.491 | 1.543 | 1.532 | 1.791 | 1.865 | 2.025 | 1.681 | 12.58 |
| 37) | | Benzo(b)fluora... | 1.463 | 1.475 | 1.554 | 1.444 | 1.636 | 1.674 | 1.778 | 1.575 | 7.99 |
| 38) | | Benzo(k)fluora... | 1.516 | 1.543 | 1.524 | 1.501 | 1.705 | 1.696 | 1.756 | 1.606 | 6.73 |
| 39) | C | Benzo(a)pyrene | 1.155 | 1.172 | 1.201 | 1.151 | 1.314 | 1.367 | 1.467 | 1.261 | 9.78 |
| 40) | | Dibenzo(a,h)an... | 1.157 | 1.175 | 1.210 | 1.232 | 1.463 | 1.519 | 1.636 | 1.342 | 14.39 |
| 41) | | Benzo(g,h,i)pe... | 1.413 | 1.402 | 1.451 | 1.375 | 1.568 | 1.607 | 1.723 | 1.506 | 8.59 |

(#) = Out of Range

Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN091125\
Data File : BN037691.D
Acq On : 11 Sep 2025 09:56
Operator : RC/JU
Sample : SSTDICC0.1
Misc :
ALS Vial : 3 Sample Multiplier: 1

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

Quant Time: Sep 11 14:05:05 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN091125.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Sep 11 14:02:44 2025
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| Internal Standards | | | | | | | |
| 1) 1,4-Dichlorobenzene-d4 | 7.840 | 152 | 5271 | 0.400 | ng | | 0.00 |
| 7) Naphthalene-d8 | 10.647 | 136 | 14013 | 0.400 | ng | | 0.00 |
| 13) Acenaphthene-d10 | 14.494 | 164 | 6484 | 0.400 | ng | | 0.00 |
| 19) Phenanthrene-d10 | 17.235 | 188 | 11736 | 0.400 | ng | | 0.00 |
| 29) Chrysene-d12 | 21.420 | 240 | 9323 | 0.400 | ng | | 0.00 |
| 35) Perylene-d12 | 23.753 | 264 | 9603 | 0.400 | ng | | 0.00 |
| System Monitoring Compounds | | | | | | | |
| 4) 2-Fluorophenol | 5.399 | 112 | 1224 | 0.101 | ng | | 0.00 |
| 5) Phenol-d6 | 6.987 | 99 | 1570 | 0.100 | ng | | 0.00 |
| 8) Nitrobenzene-d5 | 8.992 | 82 | 1006 | 0.098 | ng | | 0.00 |
| 11) 2-Methylnaphthalene-d10 | 12.242 | 152 | 1740 | 0.094 | ng | | 0.00 |
| 14) 2,4,6-Tribromophenol | 15.982 | 330 | 142 | 0.084 | ng | | 0.00 |
| 15) 2-Fluorobiphenyl | 13.115 | 172 | 2696 | 0.099 | ng | | 0.00 |
| 27) Fluoranthene-d10 | 19.271 | 212 | 2677 | 0.091 | ng | | 0.00 |
| 31) Terphenyl-d14 | 19.870 | 244 | 1879 | 0.099 | ng | | 0.00 |
| Target Compounds | | | | | | | Qvalue |
| 6) bis(2-Chloroethyl)ether | 7.255 | 93 | 1418 | 0.101 | ng | | 98 |
| 9) Naphthalene | 10.690 | 128 | 3822 | 0.100 | ng | | 95 |
| 10) Hexachlorobutadiene | 11.000 | 225 | 697 | 0.101 | ng | # | 99 |
| 12) 2-Methylnaphthalene | 12.313 | 142 | 2253 | 0.095 | ng | | 97 |
| 16) Acenaphthylene | 14.216 | 152 | 2843 | 0.096 | ng | | 99 |
| 17) Acenaphthene | 14.558 | 154 | 1889 | 0.094 | ng | | 94 |
| 18) Fluorene | 15.535 | 166 | 2276 | 0.093 | ng | | 99 |
| 21) 4-Bromophenyl-phenylether | 16.441 | 248 | 733 | 0.096 | ng | # | 95 |
| 22) Hexachlorobenzene | 16.552 | 284 | 883 | 0.100 | ng | | 99 |
| 23) Atrazine | 16.701 | 200 | 426 | 0.088 | ng | # | 89 |
| 25) Phenanthrene | 17.285 | 178 | 3604 | 0.098 | ng | | 98 |
| 26) Anthracene | 17.372 | 178 | 3046 | 0.093 | ng | | 99 |
| 28) Fluoranthene | 19.299 | 202 | 3689 | 0.091 | ng | | 99 |
| 30) Pyrene | 19.661 | 202 | 3679 | 0.101 | ng | | 99 |
| 32) Benzo(a)anthracene | 21.402 | 228 | 3231 | 0.099 | ng | | 99 |
| 33) Chrysene | 21.456 | 228 | 3549 | 0.102 | ng | | 97 |
| 36) Indeno(1,2,3-cd)pyrene | 26.142 | 276 | 3642 | 0.090 | ng | | 97 |
| 37) Benzo(b)fluoranthene | 23.048 | 252 | 3513 | 0.093 | ng | # | 82 |
| 38) Benzo(k)fluoranthene | 23.092 | 252 | 3640 | 0.094 | ng | # | 73 |
| 39) Benzo(a)pyrene | 23.651 | 252 | 2774 | 0.092 | ng | # | 76 |
| 40) Dibenzo(a,h)anthracene | 26.159 | 278 | 2778 | 0.086 | ng | # | 79 |
| 41) Benzo(g,h,i)perylene | 26.870 | 276 | 3393 | 0.094 | ng | # | 91 |

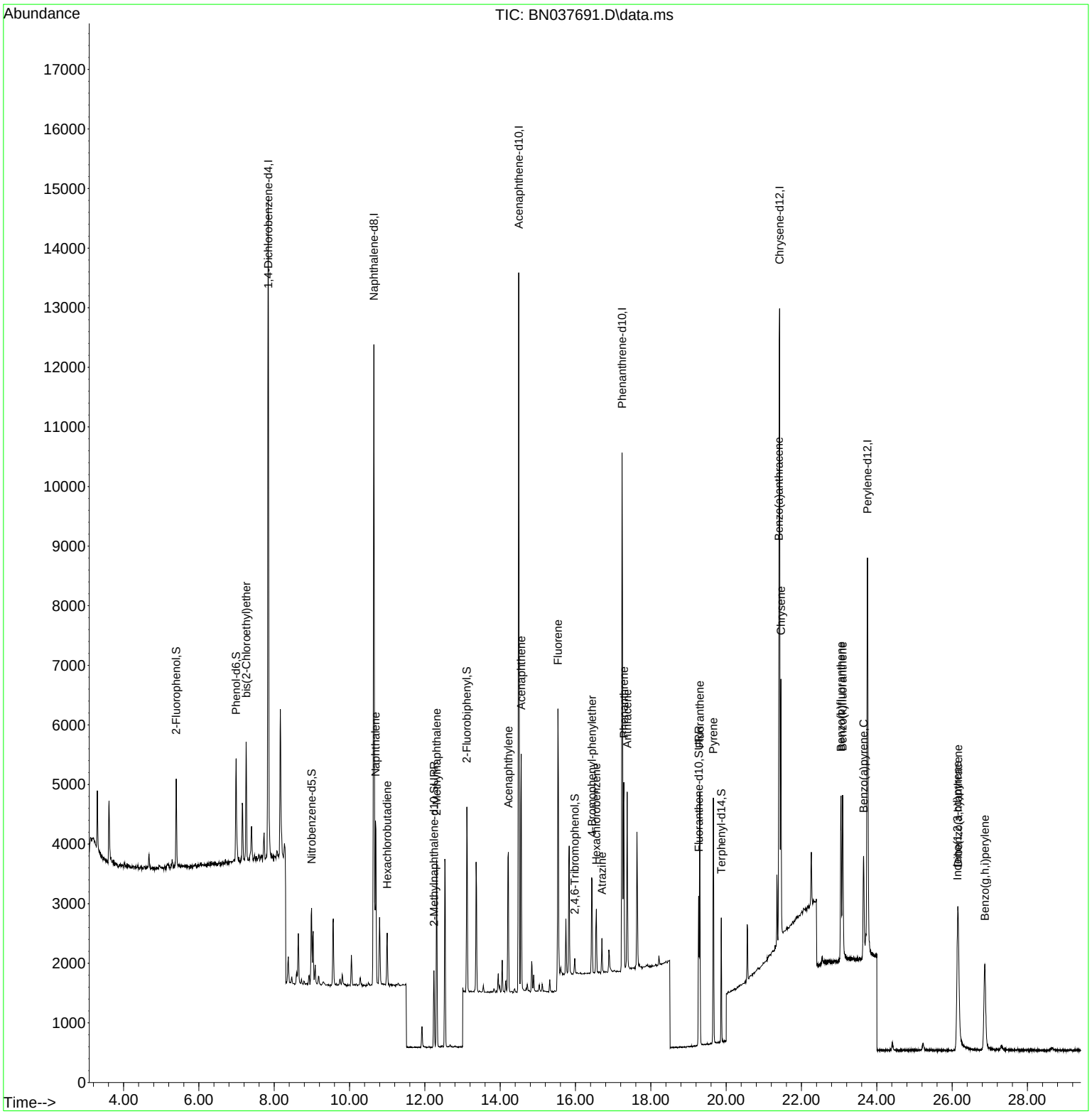
(#) = qualifier out of range (m) = manual integration (+) = signals summed

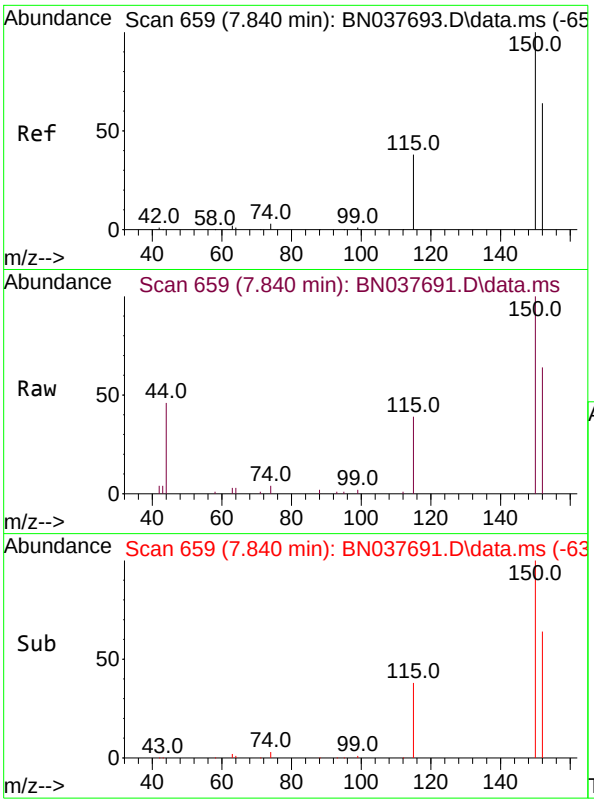
ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN091125\
Data File : BN037691.D
Acq On : 11 Sep 2025 09:56
Operator : RC/JU
Sample : SSTDICC0.1
Misc :
ALS Vial : 3 Sample Multiplier: 1

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

Quant Time: Sep 11 14:05:05 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN091125.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Sep 11 14:02:44 2025
Response via : Initial Calibration



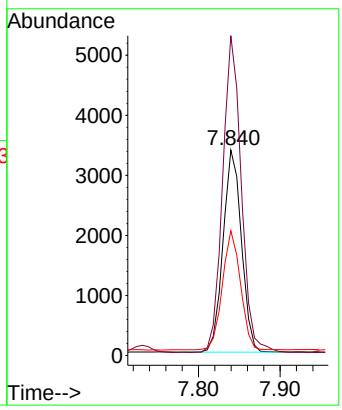


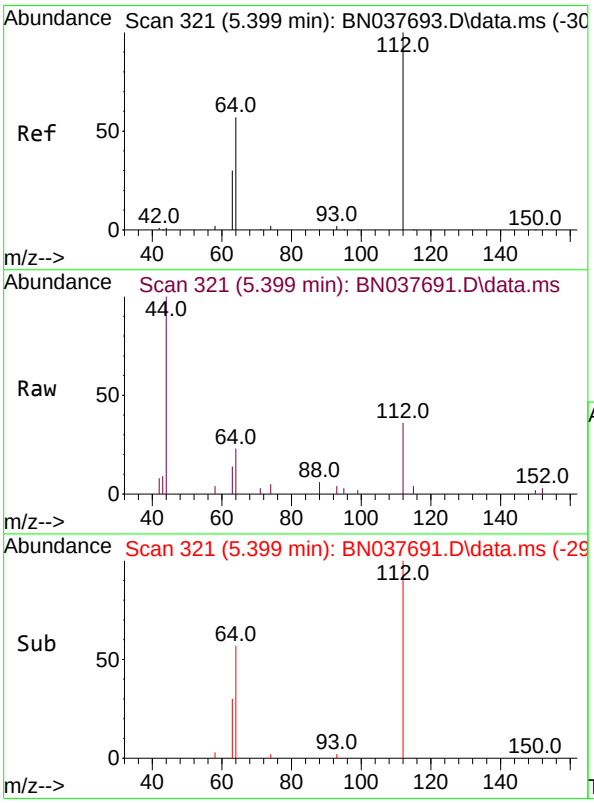

#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.840 min Scan# 6
Delta R.T. -0.000 min
Lab File: BN037691.D
Acq: 11 Sep 2025 09:56

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

Tgt Ion:152 Resp: 5271

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 150 | 155.8 | 124.5 | 186.7 |
| 115 | 60.8 | 49.2 | 73.8 |

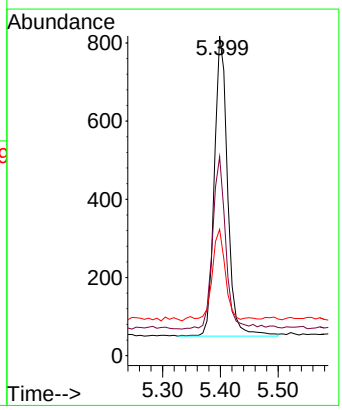


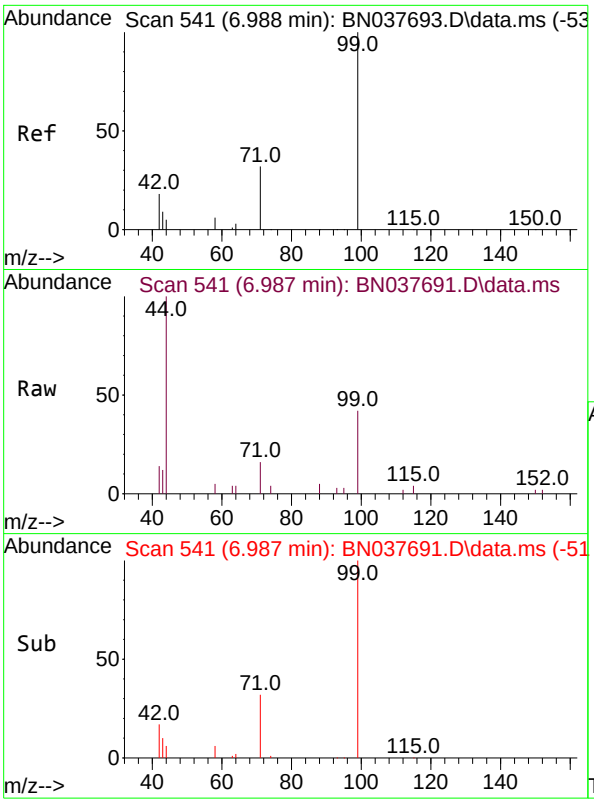




#4
2-Fluorophenol
Concen: 0.101 ng
RT: 5.399 min Scan# 321
Delta R.T. -0.000 min
Lab File: BN037691.D
Acq: 11 Sep 2025 09:56

Tgt Ion:112 Resp: 1224

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 112 | 100 | | |
| 64 | 58.5 | 44.9 | 67.3 |
| 63 | 28.8 | 24.7 | 37.1 |



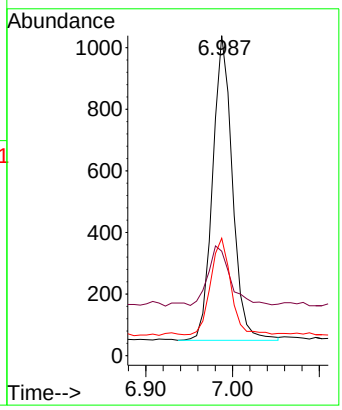


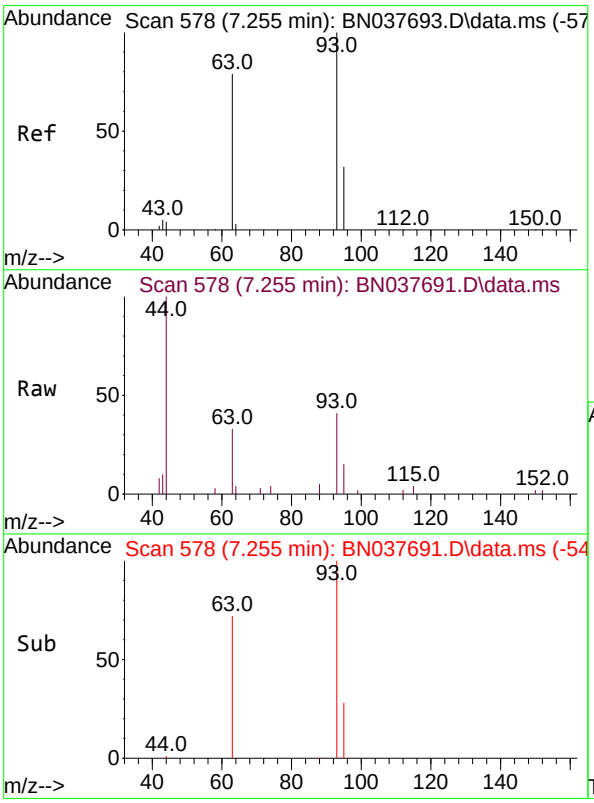

#5
Phenol-d6
Concen: 0.100 ng
RT: 6.987 min Scan# 54
Delta R.T. -0.000 min
Lab File: BN037691.D
Acq: 11 Sep 2025 09:56

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

Tgt Ion: 99 Resp: 1570

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 99 | 100 | | |
| 42 | 21.8 | 16.6 | 24.8 |
| 71 | 32.4 | 26.7 | 40.1 |

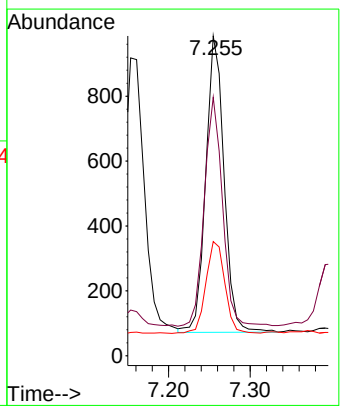


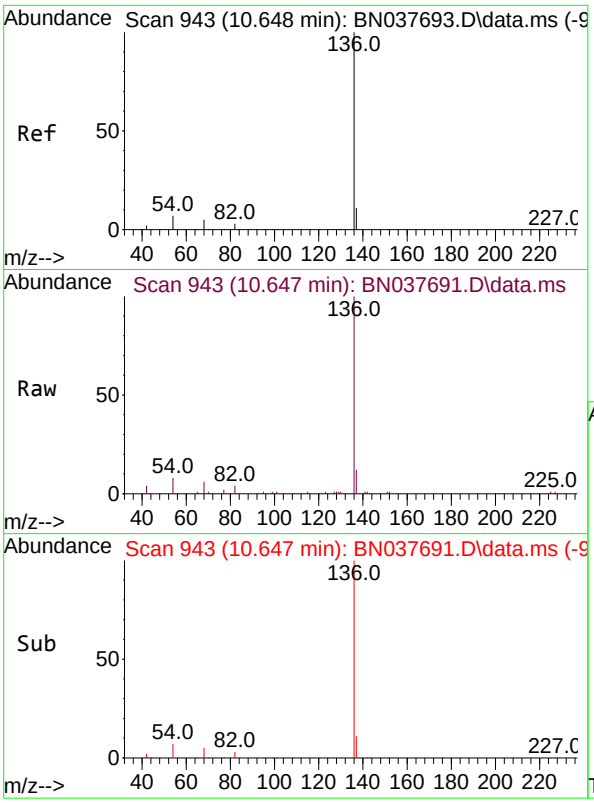




#6
bis(2-Chloroethyl)ether
Concen: 0.101 ng
RT: 7.255 min Scan# 578
Delta R.T. -0.000 min
Lab File: BN037691.D
Acq: 11 Sep 2025 09:56

Tgt Ion: 93 Resp: 1418

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 93 | 100 | | |
| 63 | 77.9 | 60.6 | 90.8 |
| 95 | 32.2 | 26.0 | 39.0 |



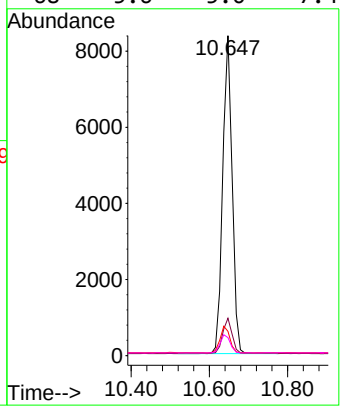


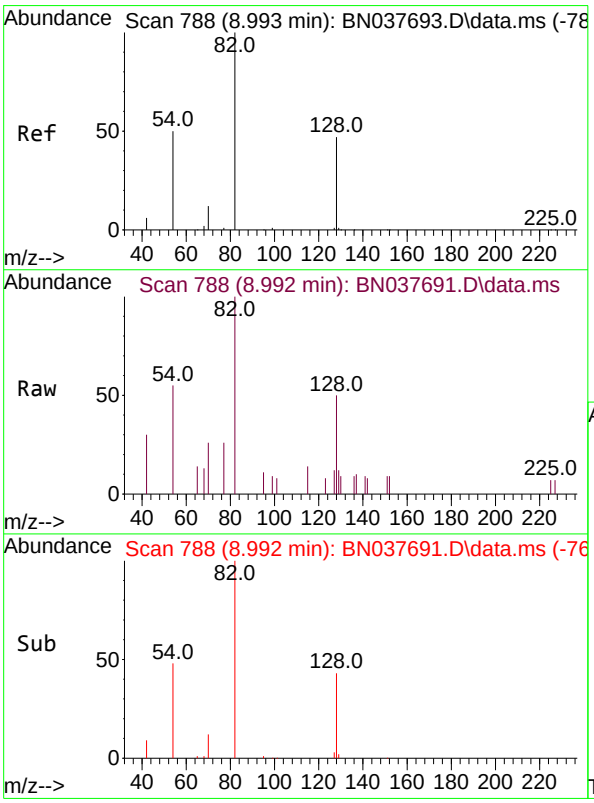

#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.647 min Scan# 94
Delta R.T. -0.000 min
Lab File: BN037691.D
Acq: 11 Sep 2025 09:56

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

Tgt Ion:136 Resp: 14013

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 136 | 100 | | |
| 137 | 11.7 | 9.1 | 13.7 |
| 54 | 7.6 | 6.3 | 9.5 |
| 68 | 5.6 | 5.0 | 7.4 |

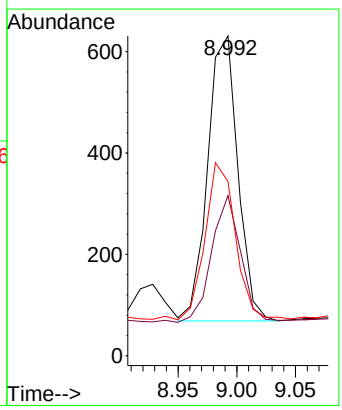


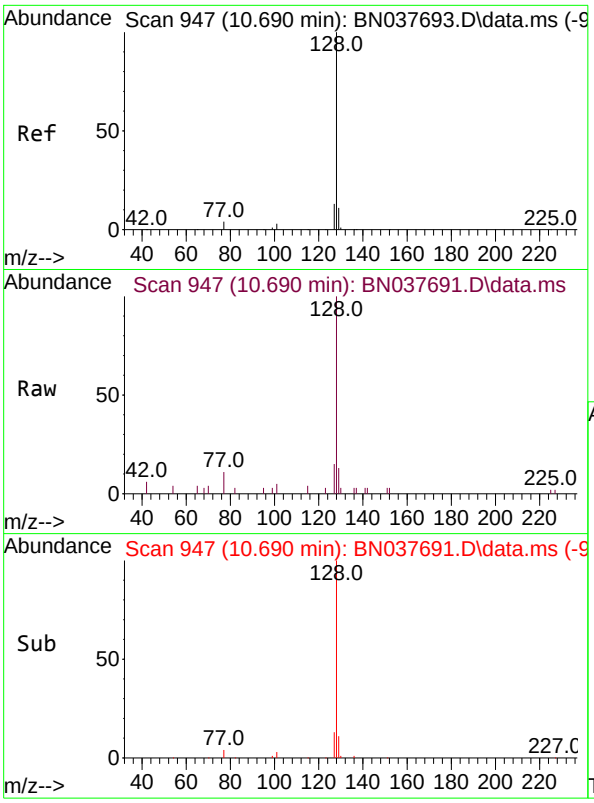




#8
Nitrobenzene-d5
Concen: 0.098 ng
RT: 8.992 min Scan# 788
Delta R.T. -0.000 min
Lab File: BN037691.D
Acq: 11 Sep 2025 09:56

Tgt Ion: 82 Resp: 1006

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 82 | 100 | | |
| 128 | 50.1 | 38.3 | 57.5 |
| 54 | 54.5 | 41.4 | 62.2 |



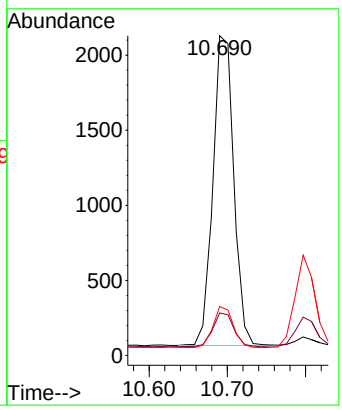


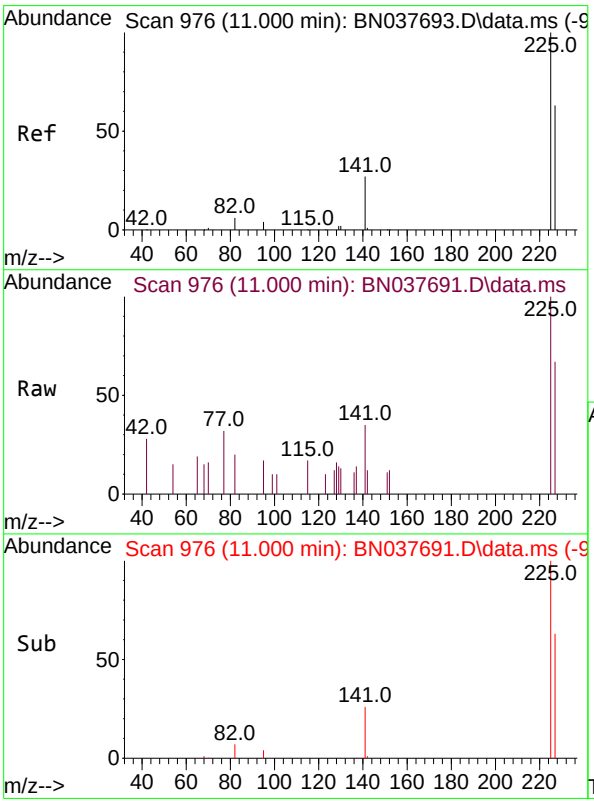

#9
Naphthalene
Concen: 0.100 ng
RT: 10.690 min Scan# 94
Delta R.T. -0.000 min
Lab File: BN037691.D
Acq: 11 Sep 2025 09:56

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

Tgt Ion:128 Resp: 3822

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 128 | 100 | | |
| 129 | 13.3 | 9.1 | 13.7 |
| 127 | 15.3 | 10.9 | 16.3 |

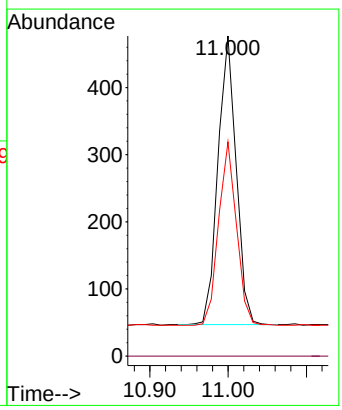


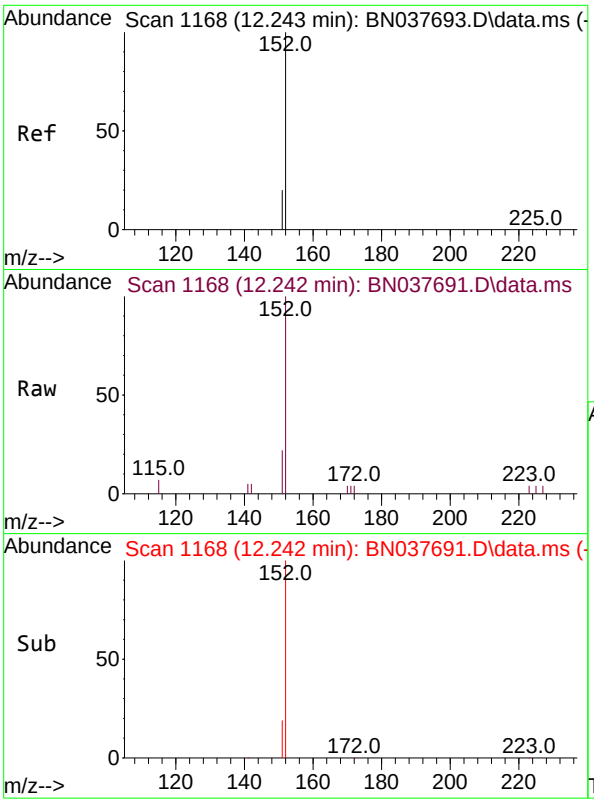




#10
Hexachlorobutadiene
Concen: 0.101 ng
RT: 11.000 min Scan# 976
Delta R.T. -0.000 min
Lab File: BN037691.D
Acq: 11 Sep 2025 09:56

Tgt Ion:225 Resp: 697

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 225 | 100 | | |
| 223 | 0.0 | 0.0 | 0.0 |
| 227 | 62.6 | 50.9 | 76.3 |



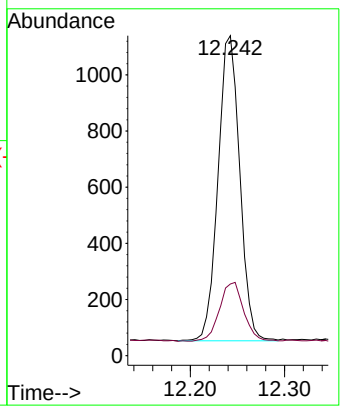


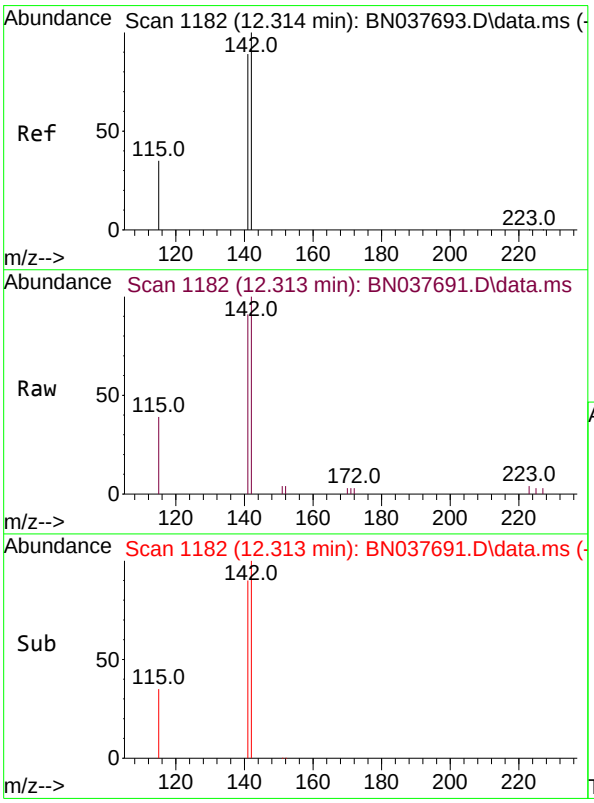

#11
2-Methylnaphthalene-d10
Concen: 0.094 ng
RT: 12.242 min Scan# 11
Delta R.T. -0.000 min
Lab File: BN037691.D
Acq: 11 Sep 2025 09:56

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

Tgt Ion:152 Resp: 1740

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

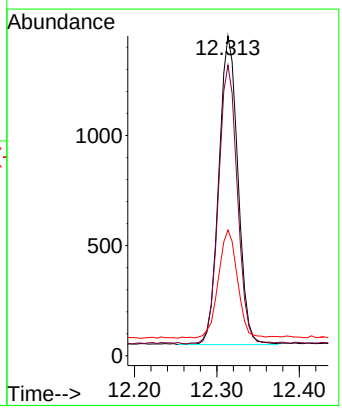


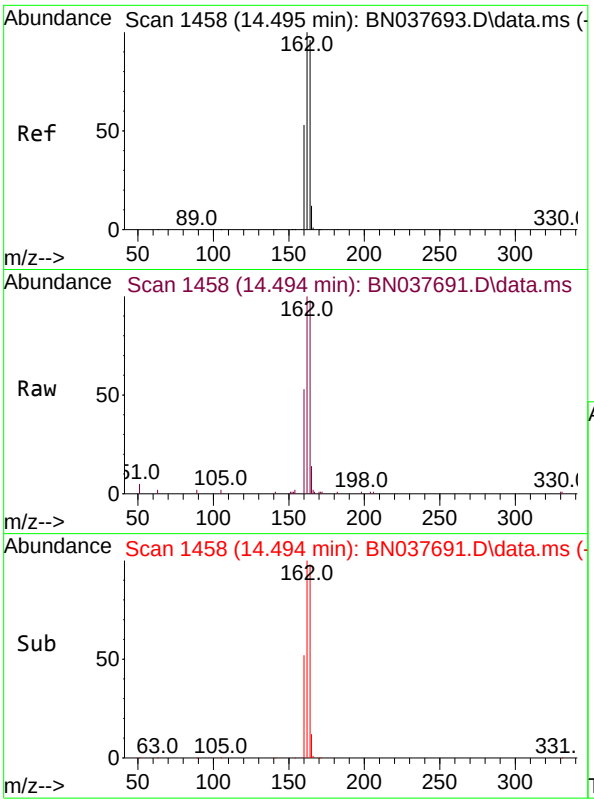




#12
2-Methylnaphthalene
Concen: 0.095 ng
RT: 12.313 min Scan# 1182
Delta R.T. -0.000 min
Lab File: BN037691.D
Acq: 11 Sep 2025 09:56

Tgt Ion:142 Resp: 2253

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 142 | 100 | | |
| 141 | 90.8 | 71.6 | 107.4 |
| 115 | 39.3 | 28.6 | 43.0 |



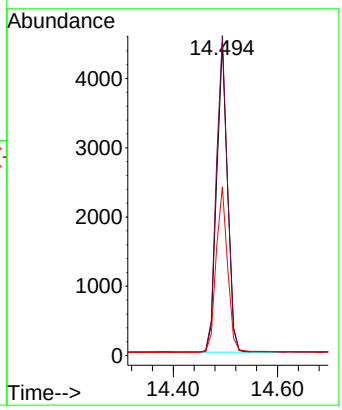


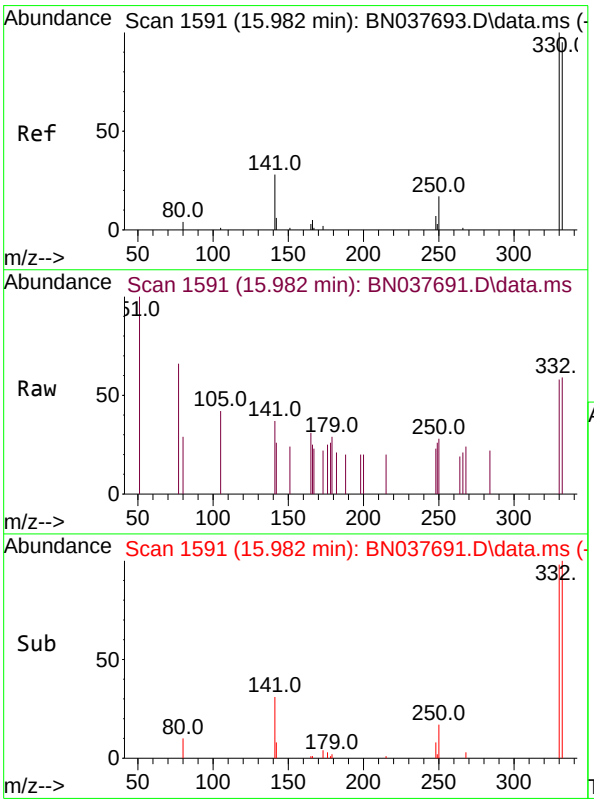

#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.494 min Scan# 14
Delta R.T. -0.000 min
Lab File: BN037691.D
Acq: 11 Sep 2025 09:56

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

Tgt Ion:164 Resp: 6484

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 164 | 100 | | |
| 162 | 102.4 | 83.1 | 124.7 |
| 160 | 54.0 | 44.3 | 66.5 |

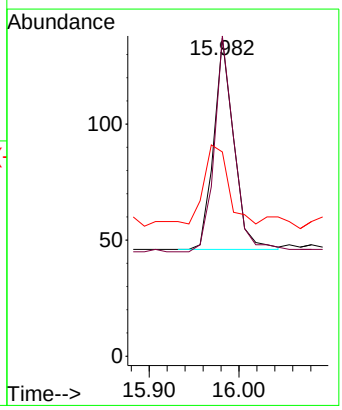


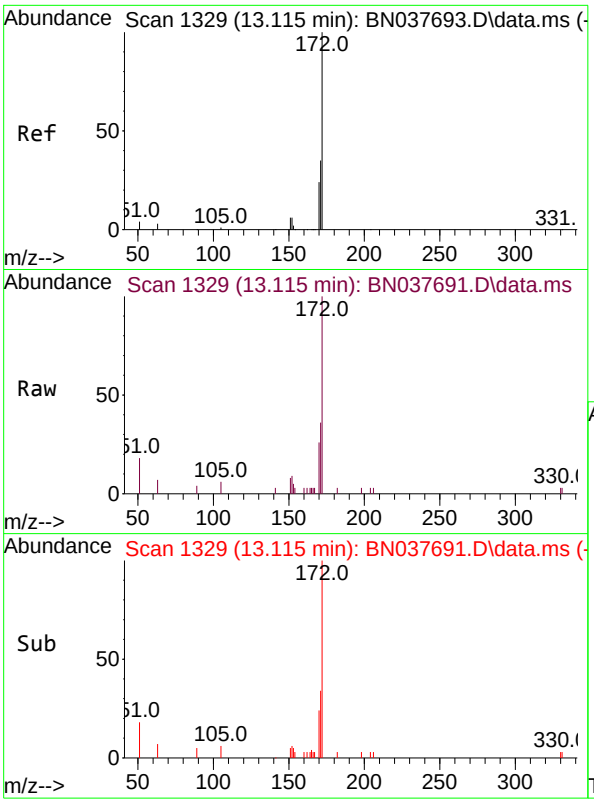




#14
2,4,6-Tribromophenol
Concen: 0.084 ng
RT: 15.982 min Scan# 1591
Delta R.T. -0.000 min
Lab File: BN037691.D
Acq: 11 Sep 2025 09:56

Tgt Ion:330 Resp: 142

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 330 | 100 | | |
| 332 | 101.4 | 75.3 | 112.9 |
| 141 | 44.4 | 35.0 | 52.4 |



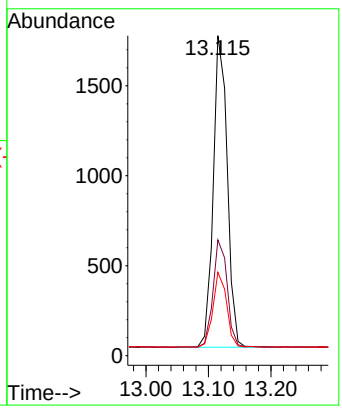


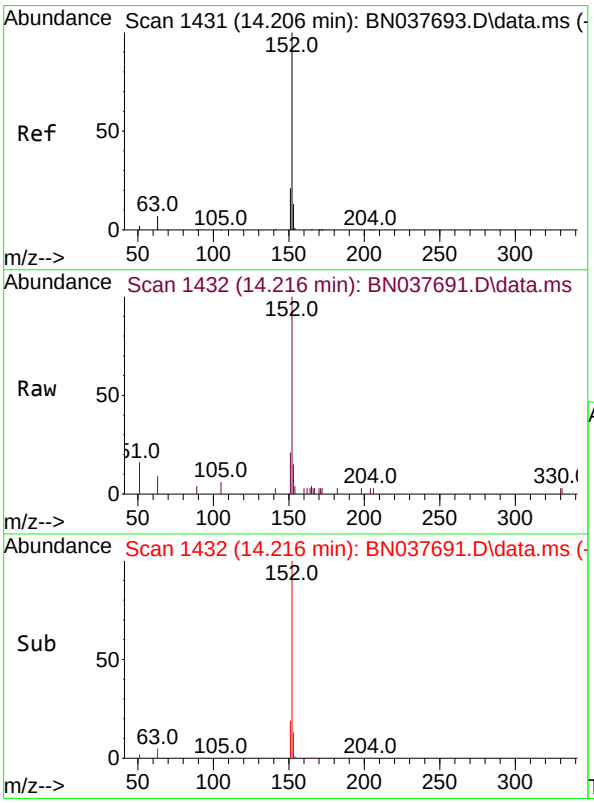

#15
2-Fluorobiphenyl
Concen: 0.099 ng
RT: 13.115 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN037691.D
Acq: 11 Sep 2025 09:56

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

Tgt Ion:172 Resp: 2696

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 172 | 100 | | |
| 171 | 36.2 | 28.6 | 43.0 |
| 170 | 26.0 | 19.8 | 29.8 |

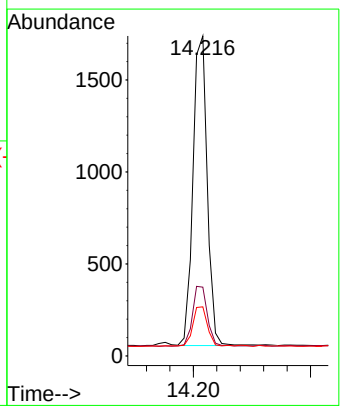


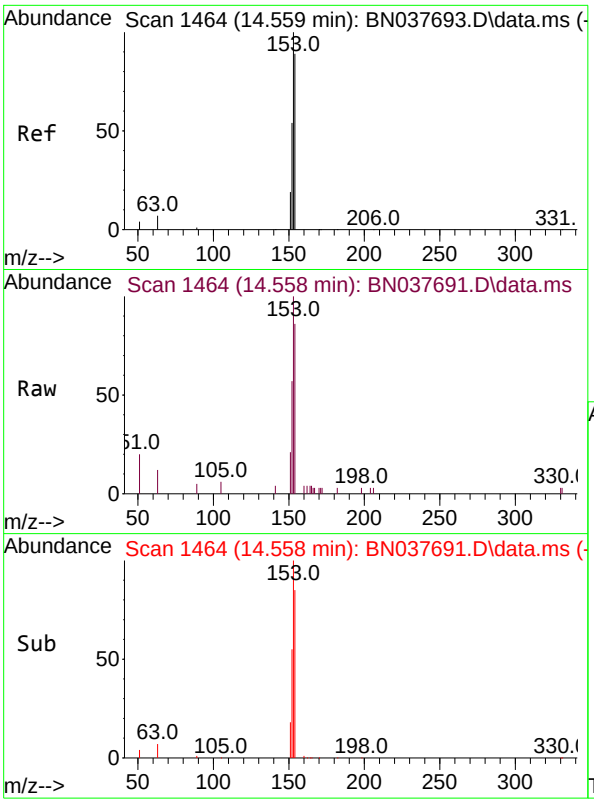




#16
Acenaphthylene
Concen: 0.096 ng
RT: 14.216 min Scan# 1432
Delta R.T. 0.010 min
Lab File: BN037691.D
Acq: 11 Sep 2025 09:56

Tgt Ion:152 Resp: 2843

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 151 | 20.5 | 16.2 | 24.2 |
| 153 | 13.5 | 10.4 | 15.6 |



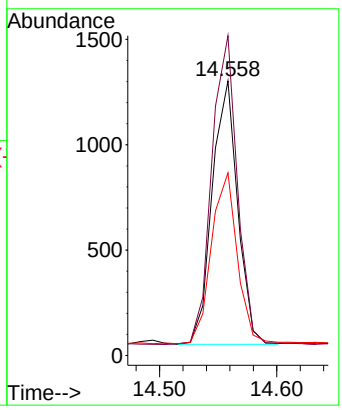


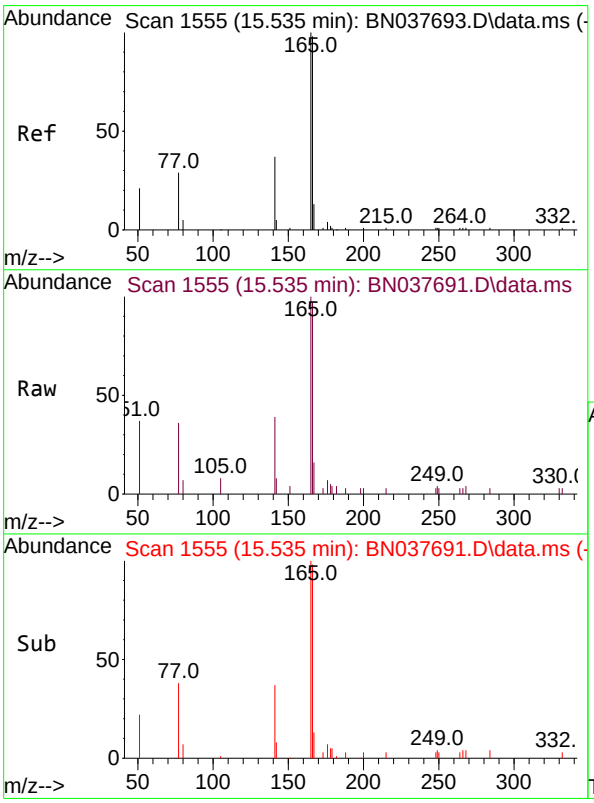

#17
Acenaphthene
Concen: 0.094 ng
RT: 14.558 min Scan# 14
Delta R.T. -0.000 min
Lab File: BN037691.D
Acq: 11 Sep 2025 09:56

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

Tgt Ion:154 Resp: 1889

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 154 | 100 | | |
| 153 | 118.1 | 89.8 | 134.8 |
| 152 | 67.5 | 50.2 | 75.2 |

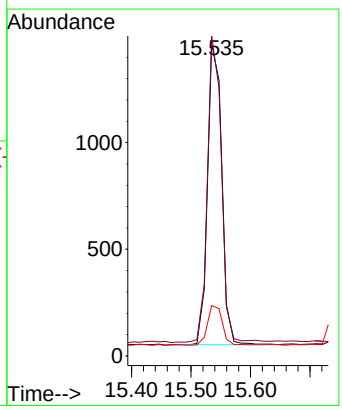


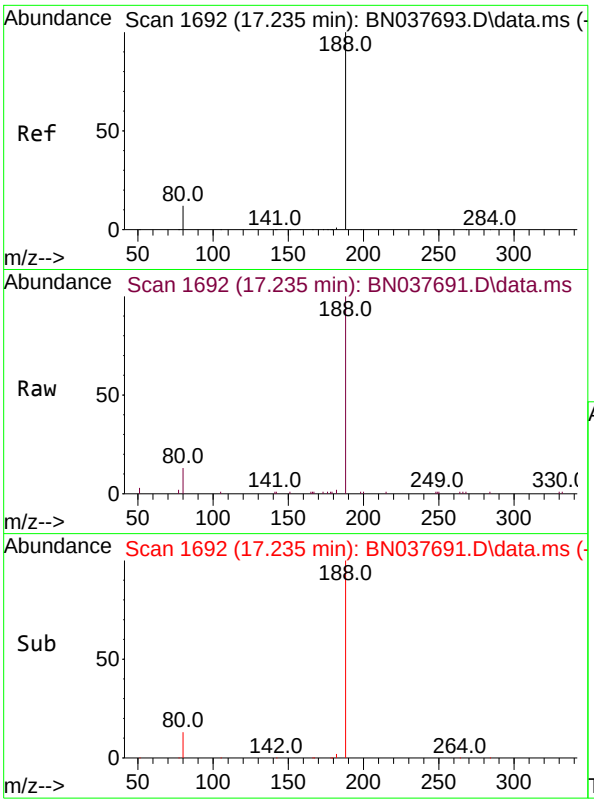




#18
Fluorene
Concen: 0.093 ng
RT: 15.535 min Scan# 1555
Delta R.T. -0.000 min
Lab File: BN037691.D
Acq: 11 Sep 2025 09:56

Tgt Ion:166 Resp: 2276

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 166 | 100 | | |
| 165 | 100.0 | 79.6 | 119.4 |
| 167 | 14.0 | 10.6 | 16.0 |



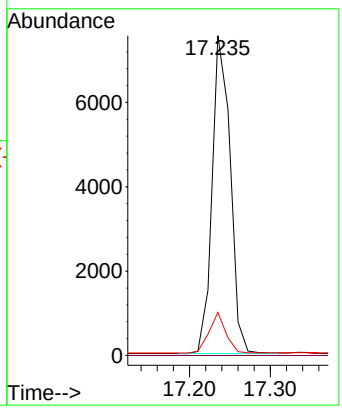


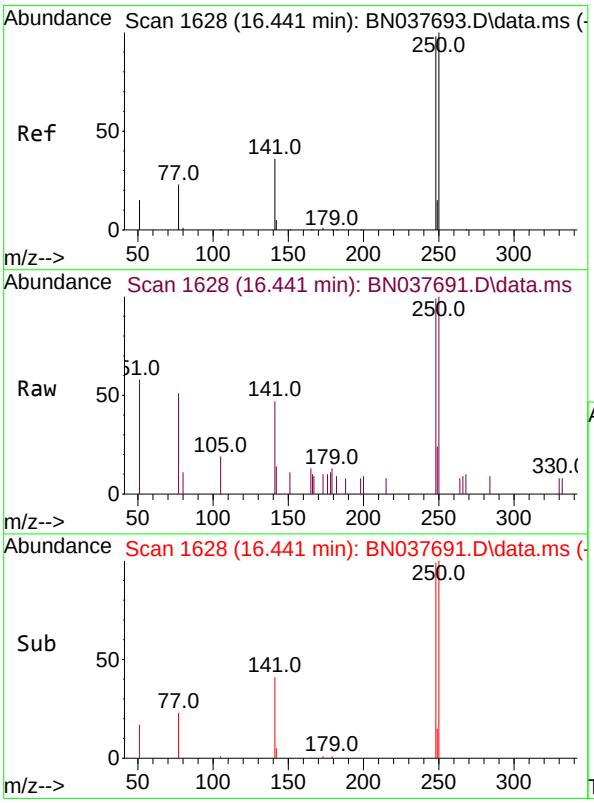

#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.235 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN037691.D
Acq: 11 Sep 2025 09:56

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

Tgt Ion:188 Resp: 11736

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 188 | 100 | | |
| 94 | 0.0 | 0.0 | 0.0 |
| 80 | 13.5 | 10.6 | 15.8 |

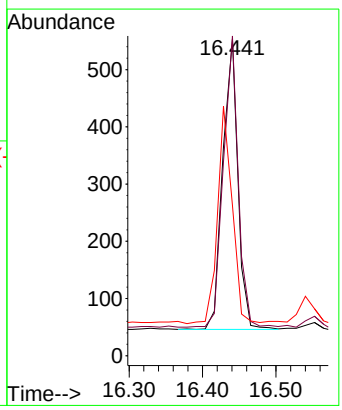


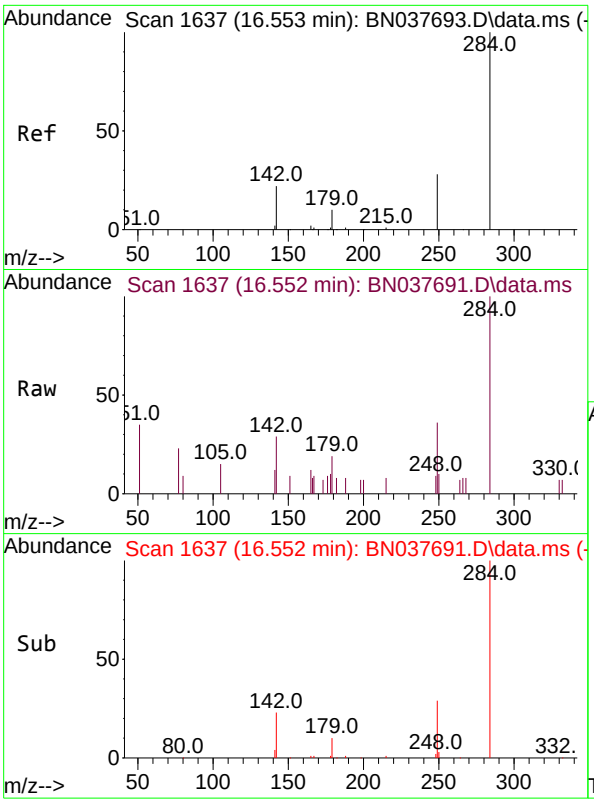




#21
4-Bromophenyl-phenylether
Concen: 0.096 ng
RT: 16.441 min Scan# 1628
Delta R.T. -0.000 min
Lab File: BN037691.D
Acq: 11 Sep 2025 09:56

Tgt Ion:248 Resp: 733

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 248 | 100 | | |
| 250 | 101.1 | 81.5 | 122.3 |
| 141 | 47.6 | 30.8 | 46.2# |



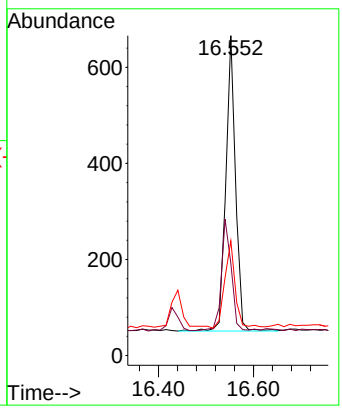


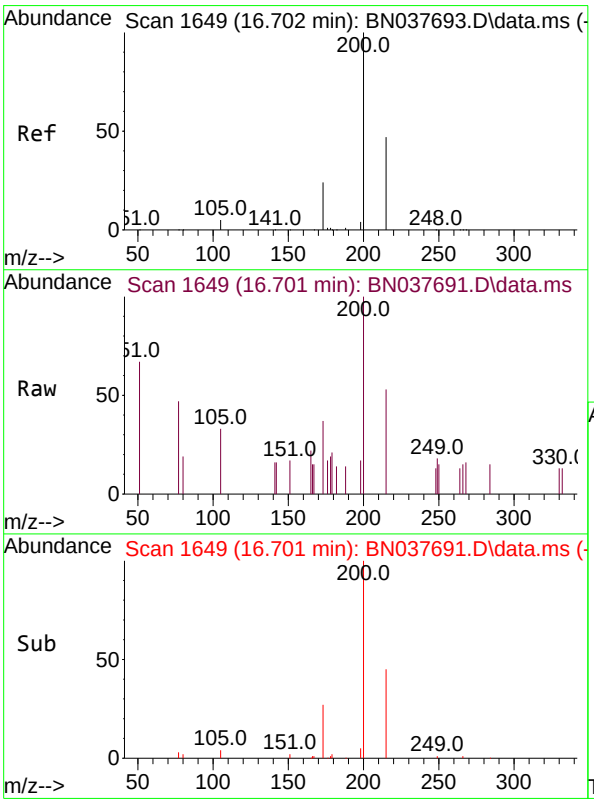

#22
Hexachlorobenzene
Concen: 0.100 ng
RT: 16.552 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN037691.D
Acq: 11 Sep 2025 09:56

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

Tgt Ion:284 Resp: 883

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 284 | 100 | | |
| 142 | 38.1 | 30.9 | 46.3 |
| 249 | 29.9 | 24.8 | 37.2 |

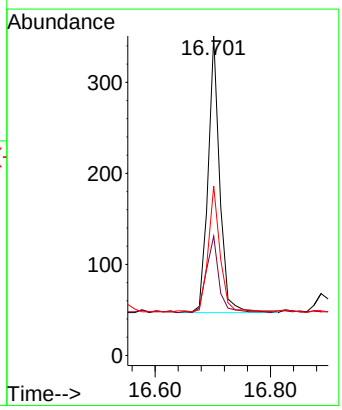


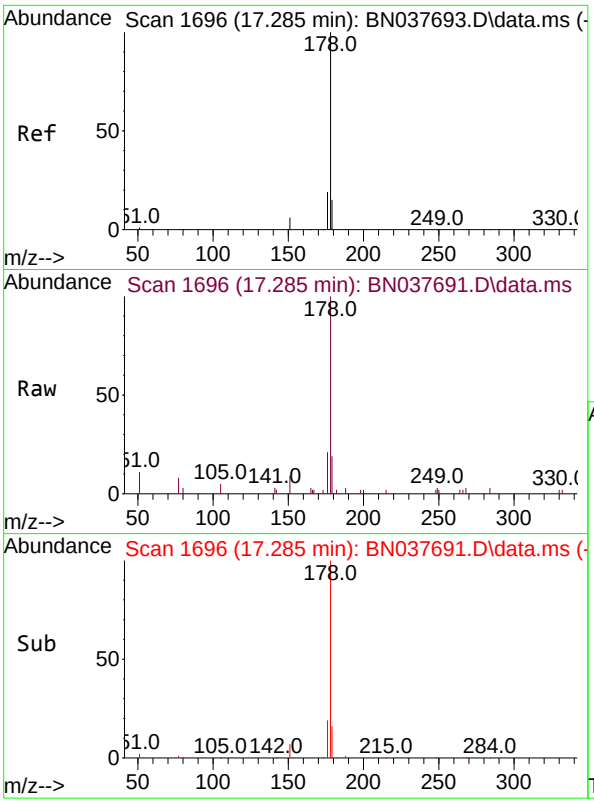




#23
Atrazine
Concen: 0.088 ng
RT: 16.701 min Scan# 1649
Delta R.T. -0.000 min
Lab File: BN037691.D
Acq: 11 Sep 2025 09:56

Tgt Ion:200 Resp: 426

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 200 | 100 | | |
| 173 | 37.3 | 21.4 | 32.2# |
| 215 | 53.0 | 39.2 | 58.8 |



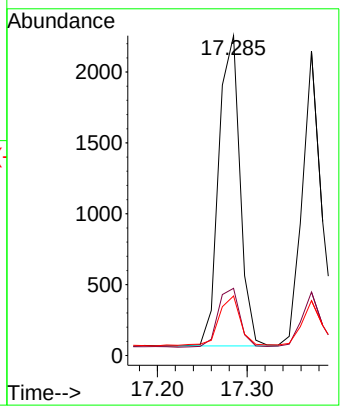


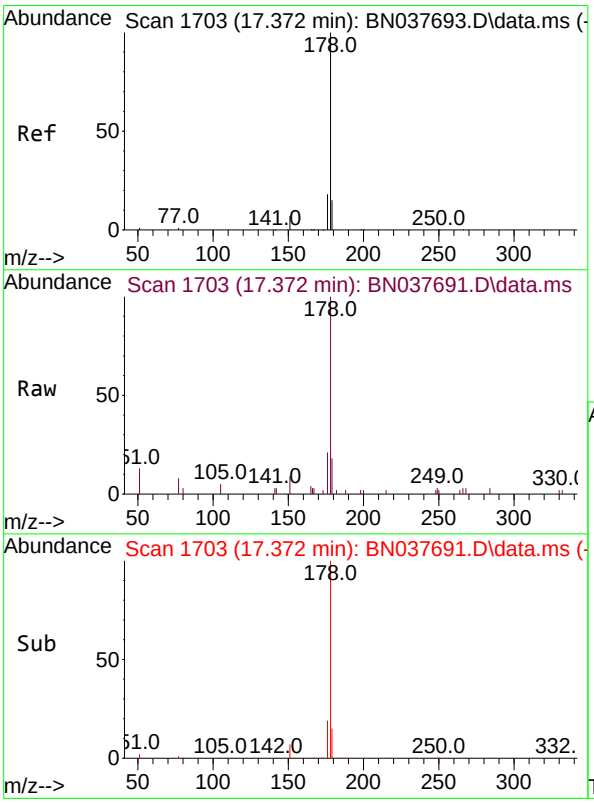

#25
Phenanthrene
Concen: 0.098 ng
RT: 17.285 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN037691.D
Acq: 11 Sep 2025 09:56

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

Tgt Ion:178 Resp: 3604

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 178 | 100 | | |
| 176 | 19.7 | 15.3 | 22.9 |
| 179 | 16.6 | 12.2 | 18.2 |

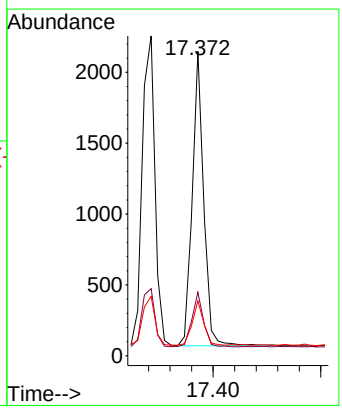


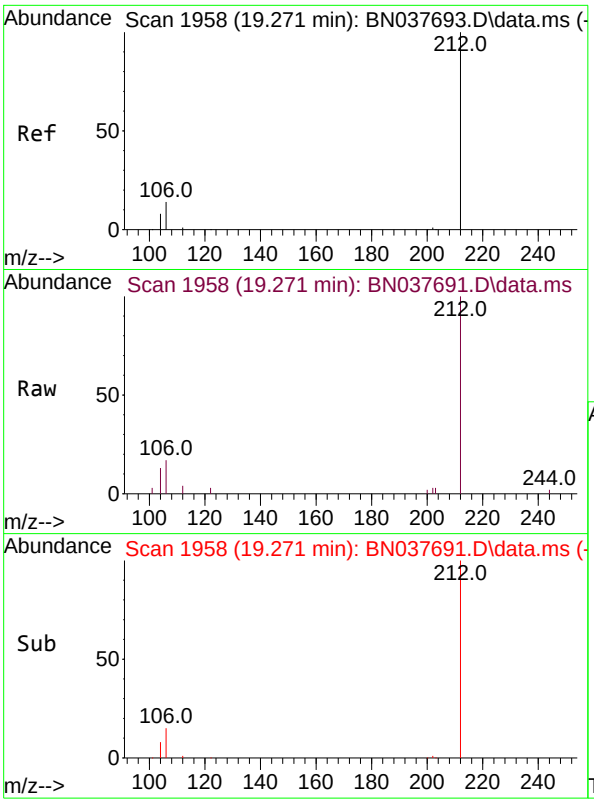




#26
Anthracene
Concen: 0.093 ng
RT: 17.372 min Scan# 1703
Delta R.T. -0.000 min
Lab File: BN037691.D
Acq: 11 Sep 2025 09:56

Tgt Ion:178 Resp: 3046

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 178 | 100 | | |
| 176 | 18.7 | 14.6 | 22.0 |
| 179 | 15.1 | 12.2 | 18.4 |



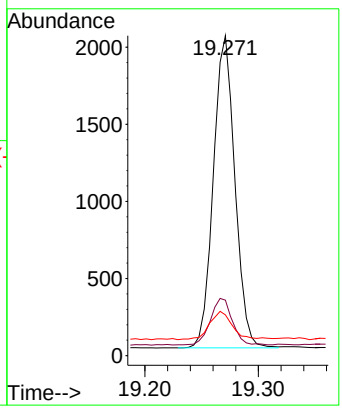


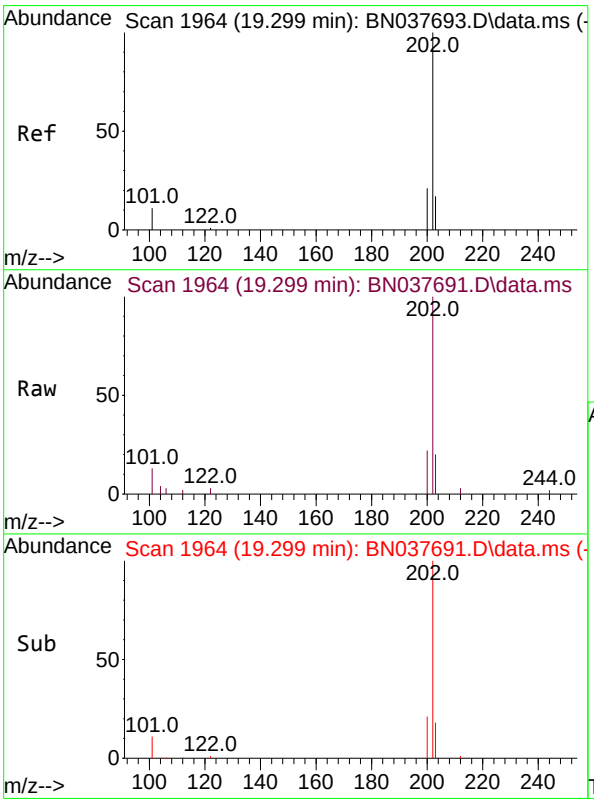

#27
Fluoranthene-d10
Concen: 0.091 ng
RT: 19.271 min Scan# 19
Delta R.T. -0.000 min
Lab File: BN037691.D
Acq: 11 Sep 2025 09:56

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

Tgt Ion:212 Resp: 2677

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 212 | 100 | | |
| 106 | 14.9 | 12.2 | 18.2 |
| 104 | 9.4 | 6.9 | 10.3 |

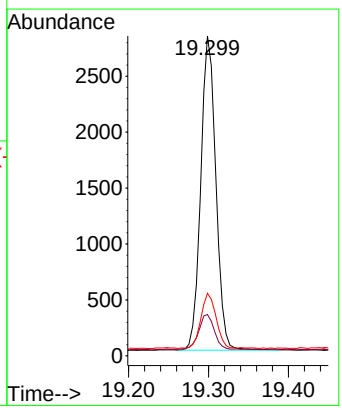


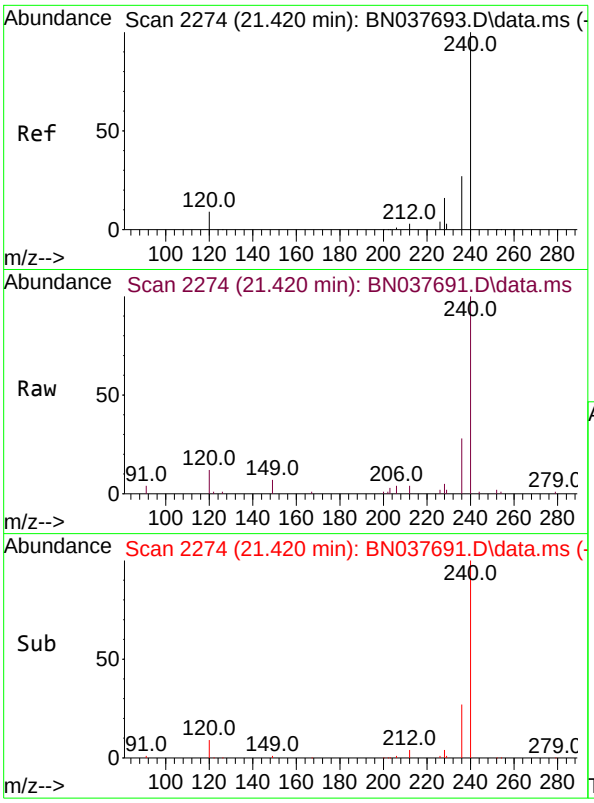




#28
Fluoranthene
Concen: 0.091 ng
RT: 19.299 min Scan# 1964
Delta R.T. -0.000 min
Lab File: BN037691.D
Acq: 11 Sep 2025 09:56

Tgt Ion:202 Resp: 3689

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 202 | 100 | | |
| 101 | 11.4 | 9.3 | 13.9 |
| 203 | 17.5 | 13.7 | 20.5 |



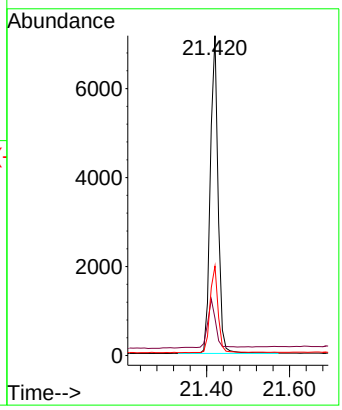


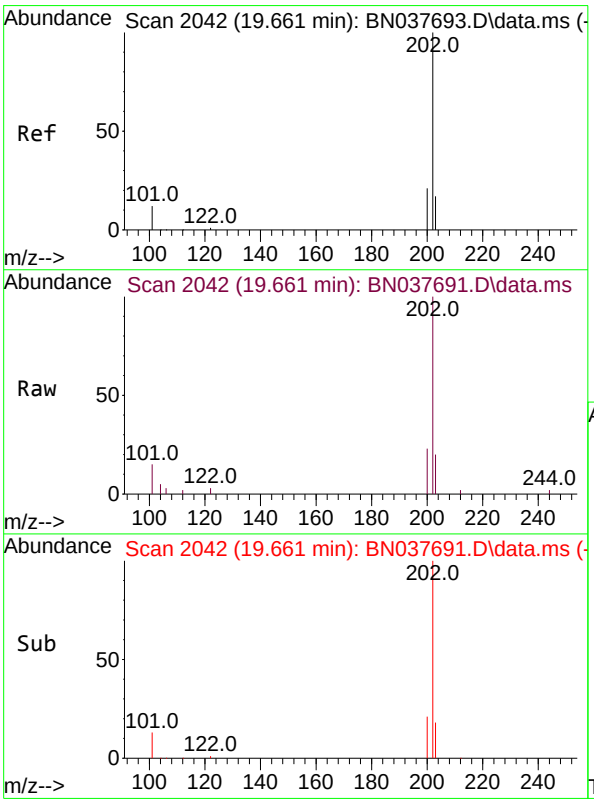

#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.420 min Scan# 2
Delta R.T. -0.000 min
Lab File: BN037691.D
Acq: 11 Sep 2025 09:56

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

Tgt Ion:240 Resp: 9323

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 240 | 100 | | |
| 120 | 11.6 | 9.2 | 13.8 |
| 236 | 28.0 | 22.6 | 33.8 |

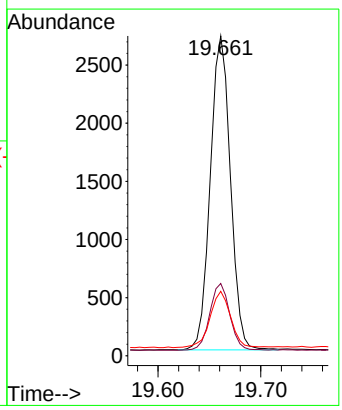


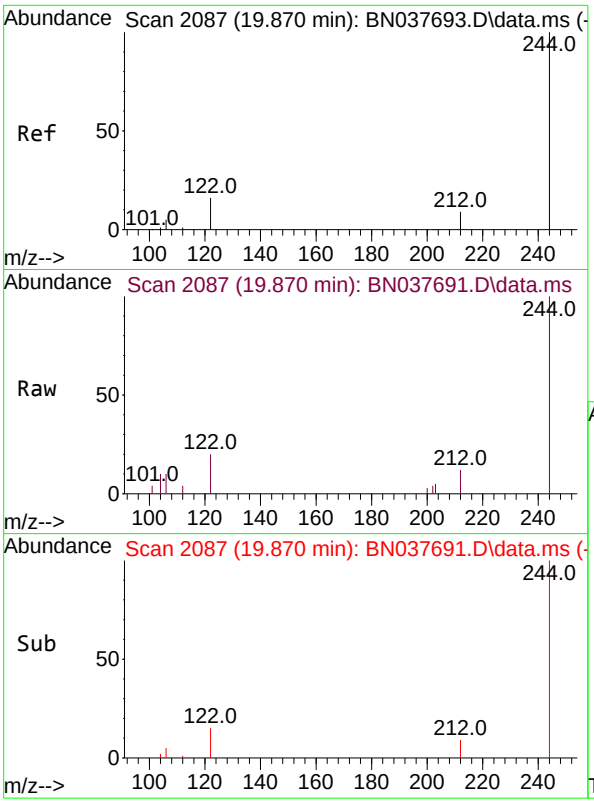




#30
Pyrene
Concen: 0.101 ng
RT: 19.661 min Scan# 2042
Delta R.T. -0.000 min
Lab File: BN037691.D
Acq: 11 Sep 2025 09:56

Tgt Ion:202 Resp: 3679

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 202 | 100 | | |
| 200 | 20.9 | 16.8 | 25.2 |
| 203 | 18.4 | 14.3 | 21.5 |



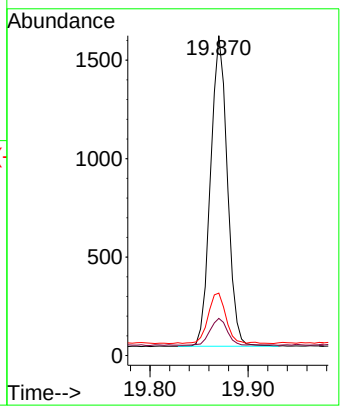


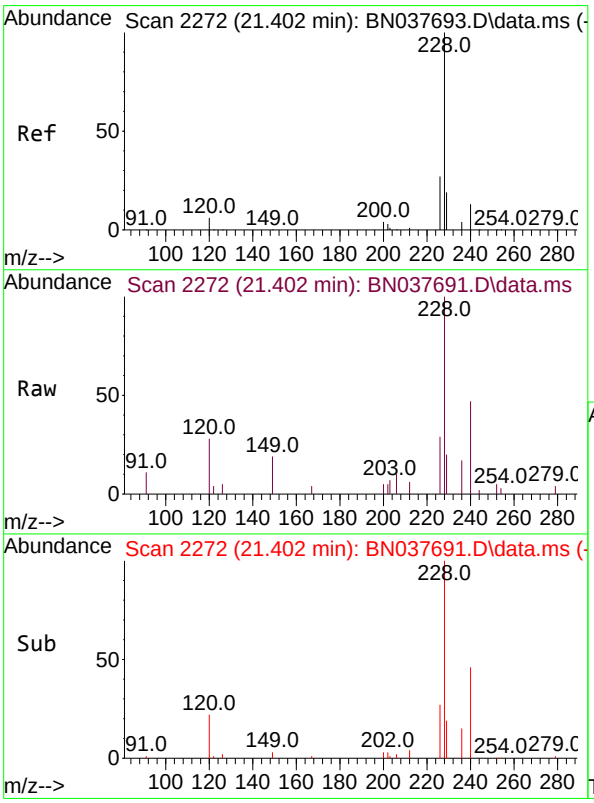

#31
Terphenyl-d14
Concen: 0.099 ng
RT: 19.870 min Scan# 20
Delta R.T. -0.000 min
Lab File: BN037691.D
Acq: 11 Sep 2025 09:56

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

Tgt Ion:244 Resp: 1879

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 244 | 100 | | |
| 212 | 11.6 | 7.5 | 11.3# |
| 122 | 19.5 | 13.2 | 19.8 |

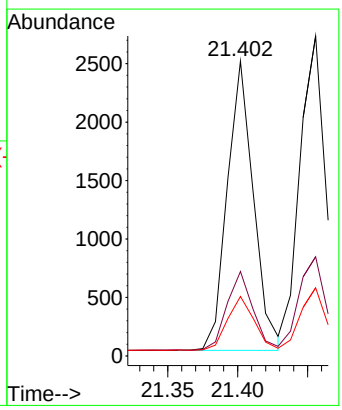


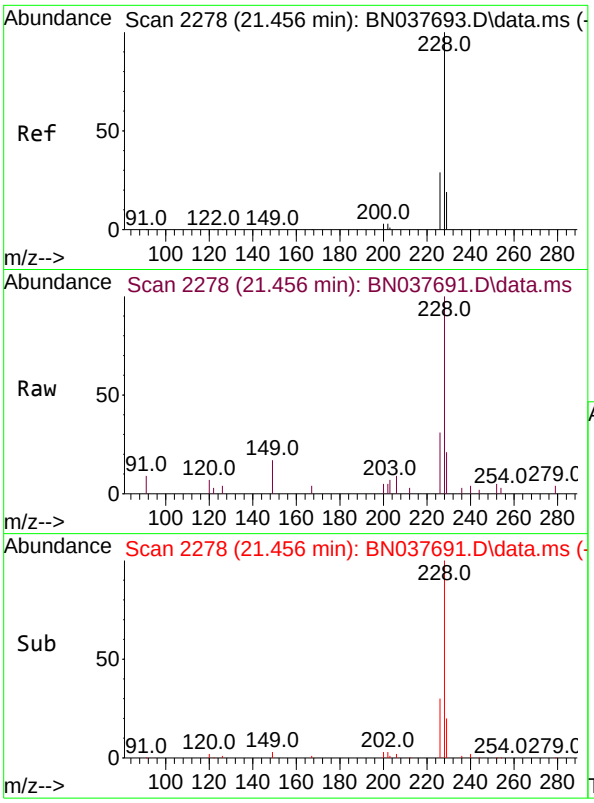




#32
Benzo(a)anthracene
Concen: 0.099 ng
RT: 21.402 min Scan# 2272
Delta R.T. -0.000 min
Lab File: BN037691.D
Acq: 11 Sep 2025 09:56

Tgt Ion:228 Resp: 3231

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 228 | 100 | | |
| 226 | 28.6 | 22.2 | 33.2 |
| 229 | 20.2 | 15.8 | 23.6 |



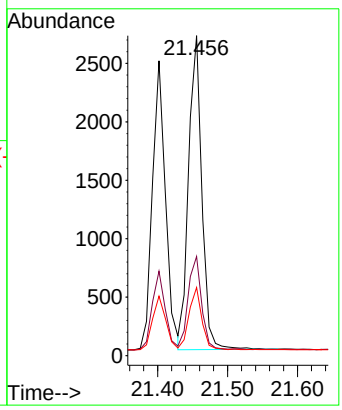


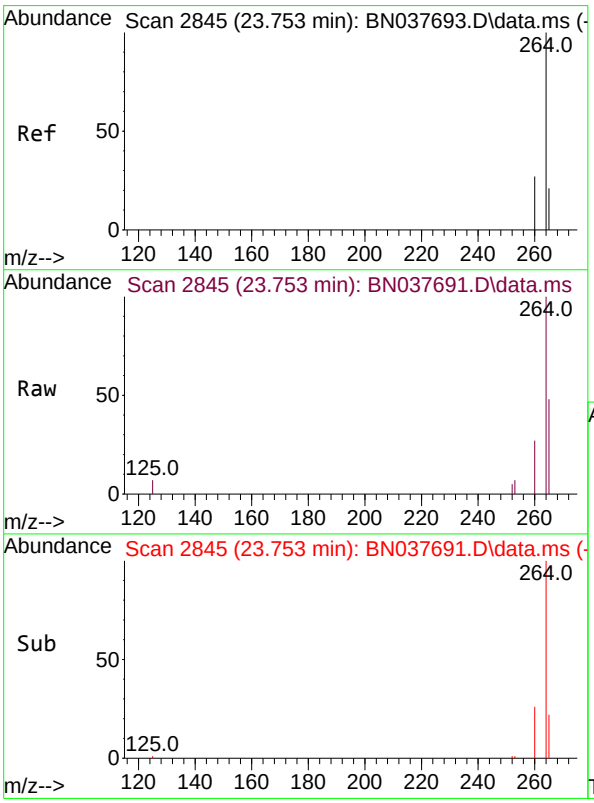

#33
Chrysene
Concen: 0.102 ng
RT: 21.456 min Scan# 2
Delta R.T. -0.000 min
Lab File: BN037691.D
Acq: 11 Sep 2025 09:56

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

Tgt Ion:228 Resp: 3549

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 228 | 100 | | |
| 226 | 31.0 | 23.5 | 35.3 |
| 229 | 21.3 | 15.9 | 23.9 |

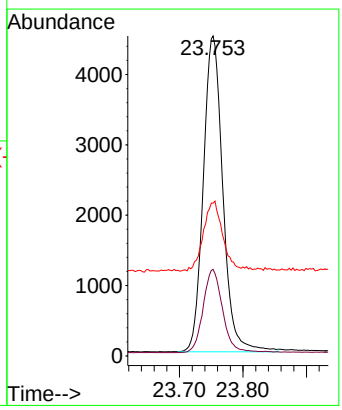


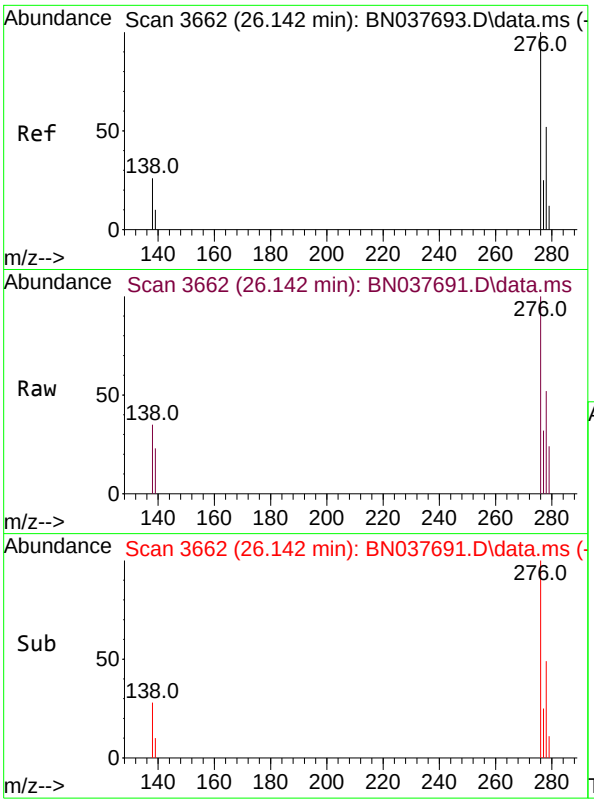




#35
Perylene-d12
Concen: 0.400 ng
RT: 23.753 min Scan# 2845
Delta R.T. -0.000 min
Lab File: BN037691.D
Acq: 11 Sep 2025 09:56

Tgt Ion:264 Resp: 9603

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 264 | 100 | | |
| 260 | 27.0 | 21.8 | 32.8 |
| 265 | 47.7 | 39.4 | 59.2 |



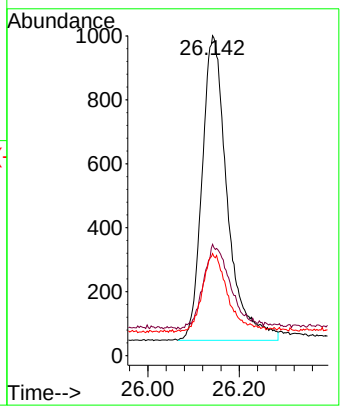


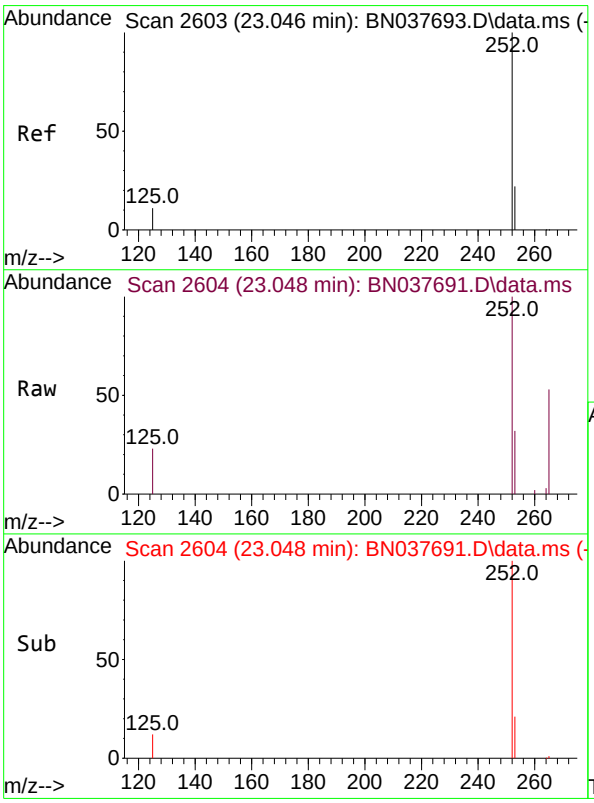

#36
Indeno(1,2,3-cd)pyrene
Concen: 0.090 ng
RT: 26.142 min Scan# 3
Delta R.T. -0.000 min
Lab File: BN037691.D
Acq: 11 Sep 2025 09:56

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

Tgt Ion:276 Resp: 3642

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 276 | 100 | | |
| 138 | 29.4 | 21.9 | 32.9 |
| 277 | 23.8 | 20.1 | 30.1 |

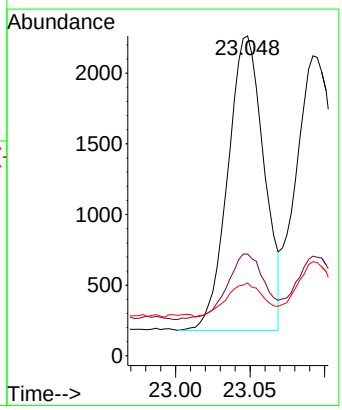


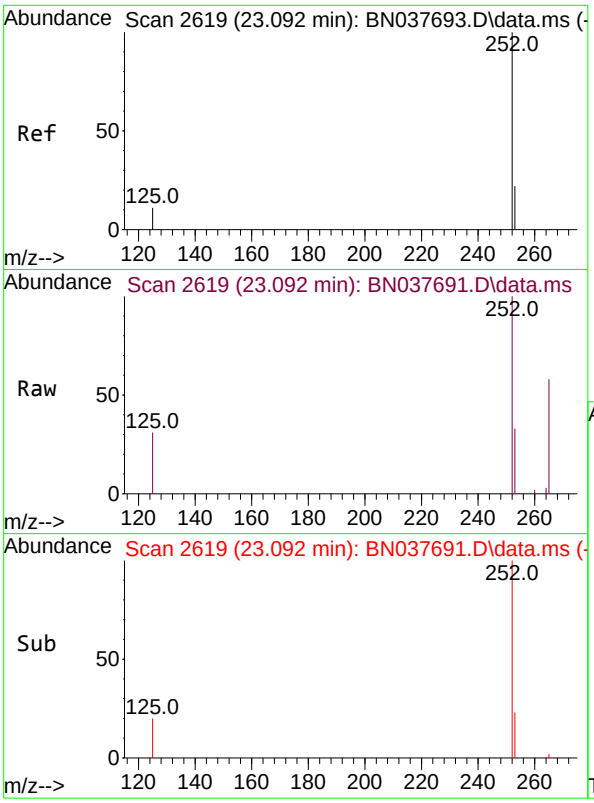




#37
Benzo(b)fluoranthene
Concen: 0.093 ng
RT: 23.048 min Scan# 2604
Delta R.T. 0.003 min
Lab File: BN037691.D
Acq: 11 Sep 2025 09:56

Tgt Ion:252 Resp: 3513

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 31.8 | 19.4 | 29.2# |
| 125 | 22.8 | 11.2 | 16.8# |



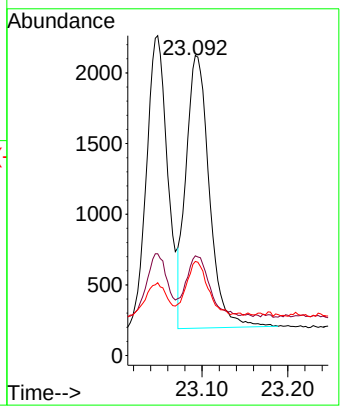


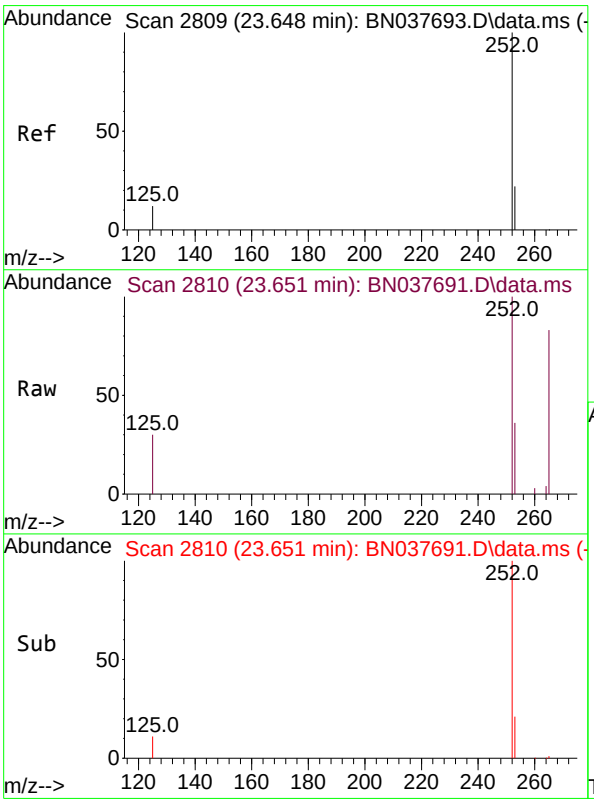

#38
Benzo(k)fluoranthene
Concen: 0.094 ng
RT: 23.092 min Scan# 2
Delta R.T. -0.000 min
Lab File: BN037691.D
Acq: 11 Sep 2025 09:56

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

Tgt Ion:252 Resp: 3640

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 33.3 | 19.4 | 29.0# |
| 125 | 31.4 | 11.6 | 17.4# |

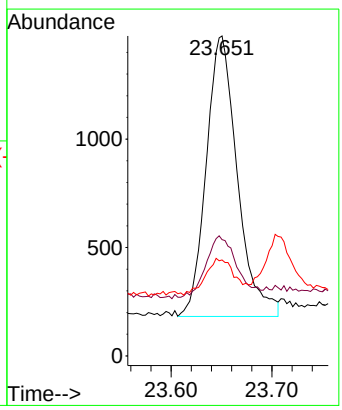


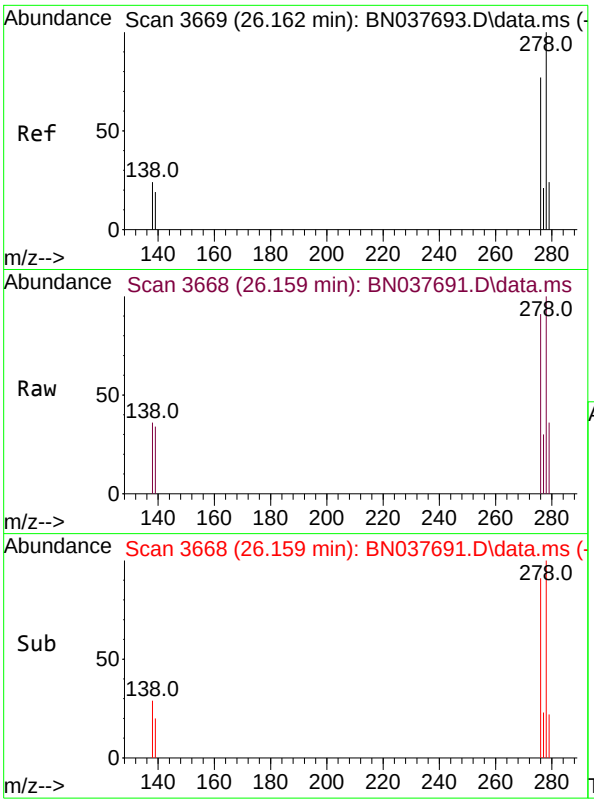




#39
Benzo(a)pyrene
Concen: 0.092 ng
RT: 23.651 min Scan# 2810
Delta R.T. 0.003 min
Lab File: BN037691.D
Acq: 11 Sep 2025 09:56

Tgt Ion:252 Resp: 2774

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 36.3 | 20.8 | 31.2# |
| 125 | 30.0 | 13.9 | 20.9# |



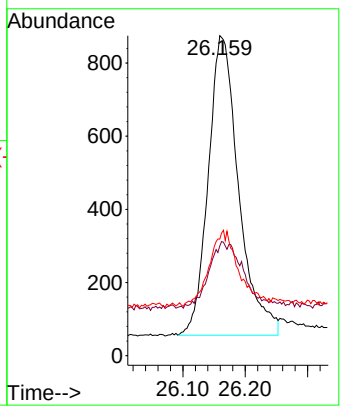


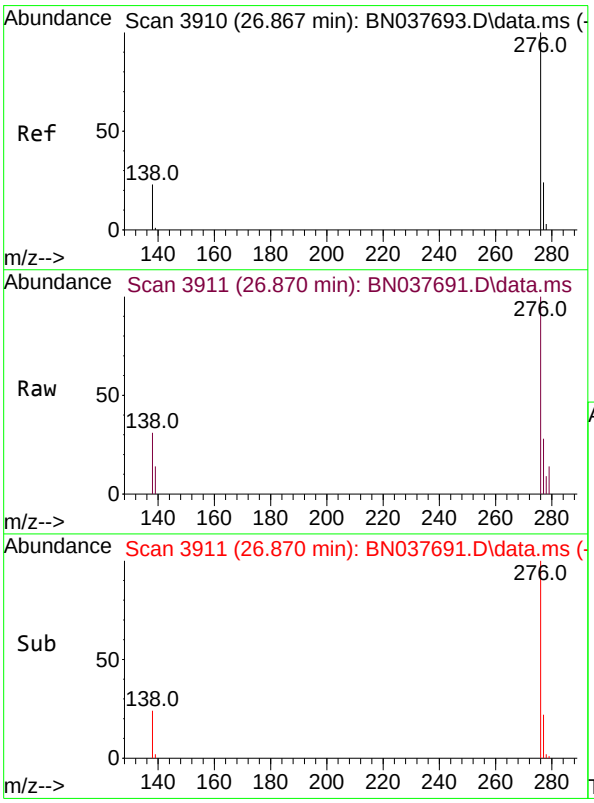

#40
Dibenzo(a,h)anthracene
Concen: 0.086 ng
RT: 26.159 min Scan# 3
Delta R.T. -0.003 min
Lab File: BN037691.D
Acq: 11 Sep 2025 09:56

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

Tgt Ion:278 Resp: 2778

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 278 | 100 | | |
| 139 | 34.3 | 17.8 | 26.6# |
| 279 | 36.5 | 22.0 | 33.0# |

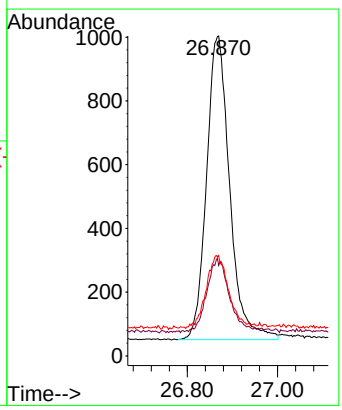



#41
Benzo(g,h,i)perylene
Concen: 0.094 ng
RT: 26.870 min Scan# 3911
Delta R.T. 0.003 min
Lab File: BN037691.D
Acq: 11 Sep 2025 09:56

Tgt Ion:276 Resp: 3393

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 276 | 100 | | |
| 277 | 28.3 | 20.6 | 31.0 |
| 138 | 31.4 | 20.2 | 30.2# |



Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN091125\
Data File : BN037692.D
Acq On : 11 Sep 2025 10:32
Operator : RC/JU
Sample : SSTDICC0.2
Misc :
ALS Vial : 4 Sample Multiplier: 1

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

**Manual Integrations APPROVED**

Reviewed By :Rahul Chavli 09/12/2025
Supervised By :Jagrut Upadhyay 09/12/2025

Quant Time: Sep 11 14:05:36 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN091125.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Sep 11 14:02:44 2025
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| Internal Standards | | | | | | | |
| 1) 1,4-Dichlorobenzene-d4 | 7.840 | 152 | 5547 | 0.400 | ng | | 0.00 |
| 7) Naphthalene-d8 | 10.648 | 136 | 15018 | 0.400 | ng | | 0.00 |
| 13) Acenaphthene-d10 | 14.494 | 164 | 6952 | 0.400 | ng | | 0.00 |
| 19) Phenanthrene-d10 | 17.235 | 188 | 12385 | 0.400 | ng | | 0.00 |
| 29) Chrysene-d12 | 21.420 | 240 | 9324 | 0.400 | ng | | 0.00 |
| 35) Perylene-d12 | 23.753 | 264 | 9364 | 0.400 | ng | | 0.00 |
| System Monitoring Compounds | | | | | | | |
| 4) 2-Fluorophenol | 5.399 | 112 | 2533 | 0.199 | ng | | 0.00 |
| 5) Phenol-d6 | 6.988 | 99 | 3308 | 0.200 | ng | | 0.00 |
| 8) Nitrobenzene-d5 | 8.993 | 82 | 2098 | 0.191 | ng | | 0.00 |
| 11) 2-Methylnaphthalene-d10 | 12.243 | 152 | 3732 | 0.188 | ng | | 0.00 |
| 14) 2,4,6-Tribromophenol | 15.982 | 330 | 340 | 0.188 | ng | | 0.00 |
| 15) 2-Fluorobiphenyl | 13.115 | 172 | 5791 | 0.199 | ng | | 0.00 |
| 27) Fluoranthene-d10 | 19.271 | 212 | 5492 | 0.177 | ng | | 0.00 |
| 31) Terphenyl-d14 | 19.870 | 244 | 3884 | 0.205 | ng | | 0.00 |
| Target Compounds | | | | | | | Qvalue |
| 2) 1,4-Dioxane | 3.304 | 88 | 1189 | 0.206 | ng | | 99 |
| 3) n-Nitrosodimethylamine | 3.608 | 42 | 1470 | 0.195 | ng | # | 93 |
| 6) bis(2-Chloroethyl)ether | 7.255 | 93 | 2982 | 0.202 | ng | | 100 |
| 9) Naphthalene | 10.701 | 128 | 8051 | 0.196 | ng | | 99 |
| 10) Hexachlorobutadiene | 11.000 | 225 | 1472 | 0.198 | ng | # | 100 |
| 12) 2-Methylnaphthalene | 12.314 | 142 | 4889 | 0.193 | ng | | 100 |
| 16) Acenaphthylene | 14.216 | 152 | 6105 | 0.191 | ng | | 98 |
| 17) Acenaphthene | 14.559 | 154 | 4168 | 0.193 | ng | | 98 |
| 18) Fluorene | 15.535 | 166 | 4875 | 0.187 | ng | | 97 |
| 20) 4,6-Dinitro-2-methylph... | 15.609 | 198 | 201 | 0.175 | ng | # | 58 |
| 21) 4-Bromophenyl-phenylether | 16.441 | 248 | 1560 | 0.193 | ng | | 97 |
| 22) Hexachlorobenzene | 16.553 | 284 | 1906 | 0.205 | ng | | 99 |
| 23) Atrazine | 16.702 | 200 | 932 | 0.181 | ng | | 96 |
| 24) Pentachlorophenol | 16.888 | 266 | 461 | 0.171 | ng | | 98 |
| 25) Phenanthrene | 17.285 | 178 | 7526 | 0.193 | ng | | 98 |
| 26) Anthracene | 17.372 | 178 | 6375 | 0.185 | ng | | 99 |
| 28) Fluoranthene | 19.299 | 202 | 7577 | 0.177 | ng | | 100 |
| 30) Pyrene | 19.661 | 202 | 7543 | 0.207 | ng | | 99 |
| 32) Benzo(a)anthracene | 21.402 | 228 | 6270 | 0.193 | ng | | 99 |
| 33) Chrysene | 21.456 | 228 | 6953 | 0.199 | ng | | 98 |
| 34) Bis(2-ethylhexyl)phtha... | 21.348 | 149 | 2049 | 0.213 | ng | # | 97 |
| 36) Indeno(1,2,3-cd)pyrene | 26.142 | 276 | 6982 | 0.177 | ng | | 99 |
| 37) Benzo(b)fluoranthene | 23.046 | 252 | 6907 | 0.187 | ng | # | 93 |
| 38) Benzo(k)fluoranthene | 23.092 | 252 | 7226m | 0.192 | ng | | |
| 39) Benzo(a)pyrene | 23.651 | 252 | 5489 | 0.186 | ng | # | 92 |
| 40) Dibenzo(a,h)anthracene | 26.165 | 278 | 5503 | 0.175 | ng | # | 90 |
| 41) Benzo(g,h,i)perylene | 26.864 | 276 | 6566 | 0.186 | ng | | 95 |

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

ICAL Form

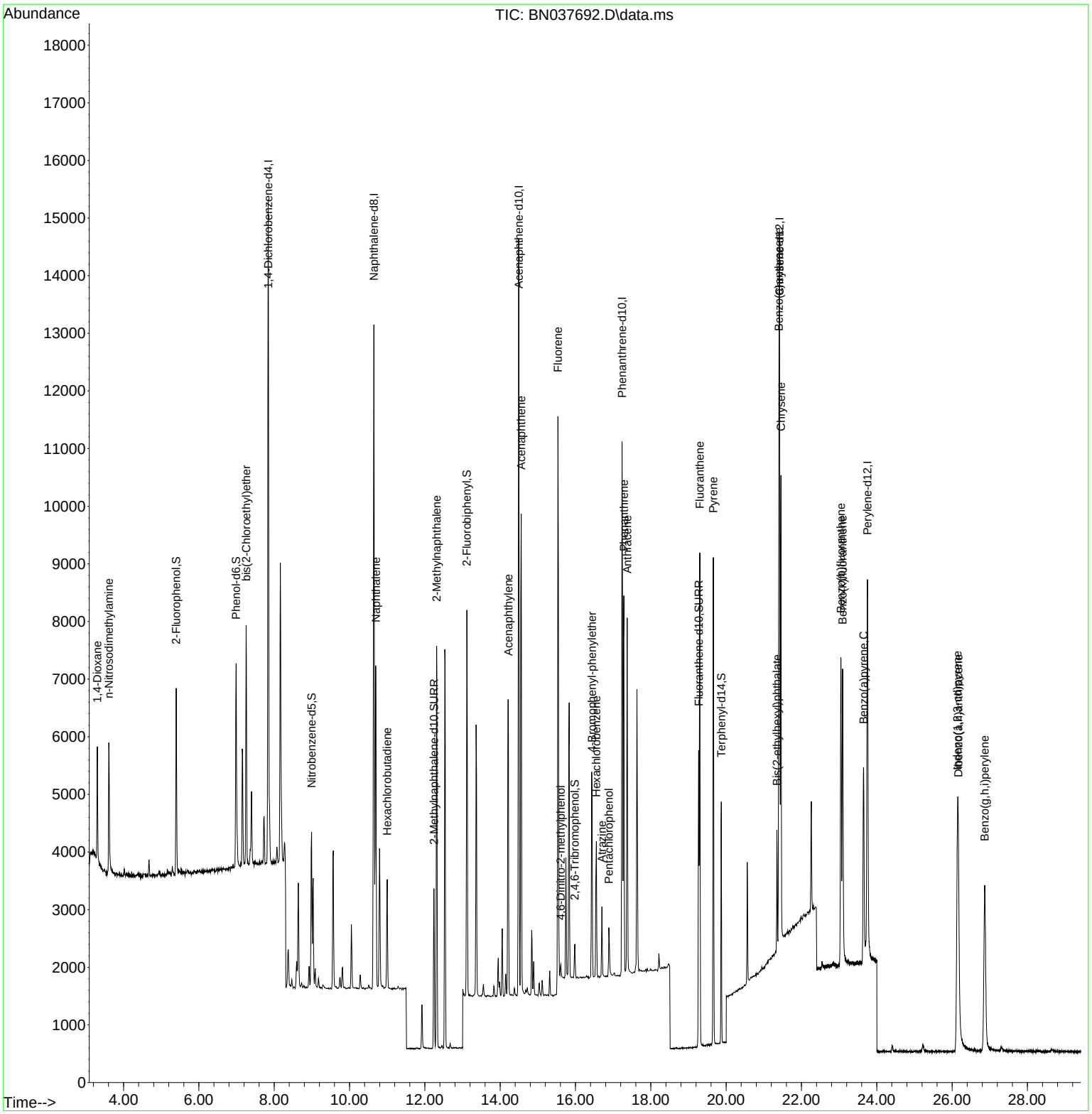
Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN091125\
Data File : BN037692.D
Acq On : 11 Sep 2025 10:32
Operator : RC/JU
Sample : SSTDICC0.2
Misc :
ALS Vial : 4 Sample Multiplier: 1

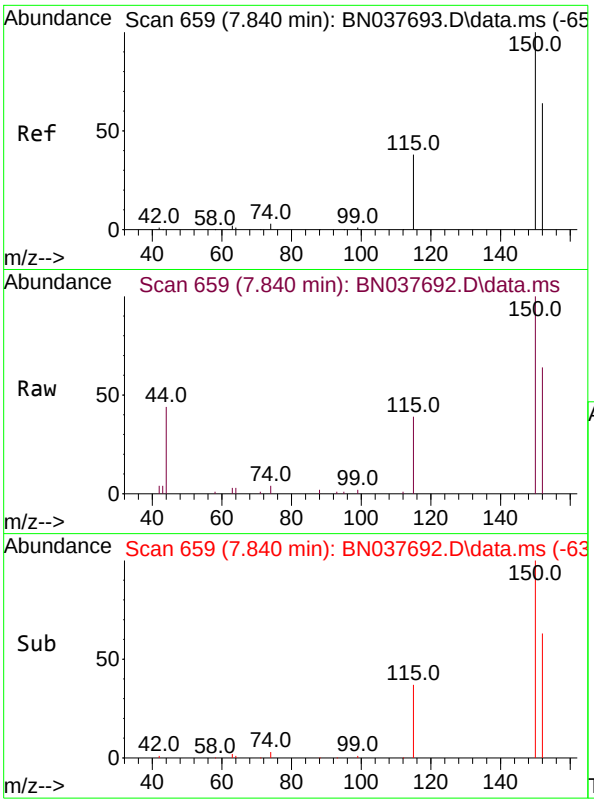
Quant Time: Sep 11 14:05:36 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN091125.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Sep 11 14:02:44 2025
Response via : Initial Calibration

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

**Manual Integrations APPROVED**

Reviewed By :Rahul Chavli 09/12/2025
Supervised By :Jagrut Upadhyay 09/12/2025

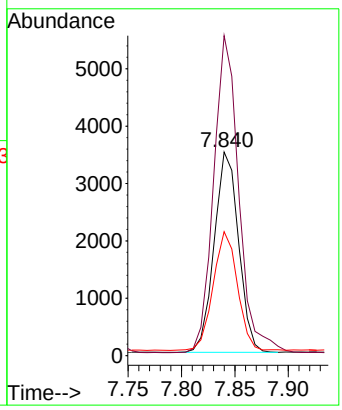





#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.840 min Scan# 6
Delta R.T. -0.000 min
Lab File: BN037692.D
Acq: 11 Sep 2025 10:32

Tgt Ion:152 Resp: 554

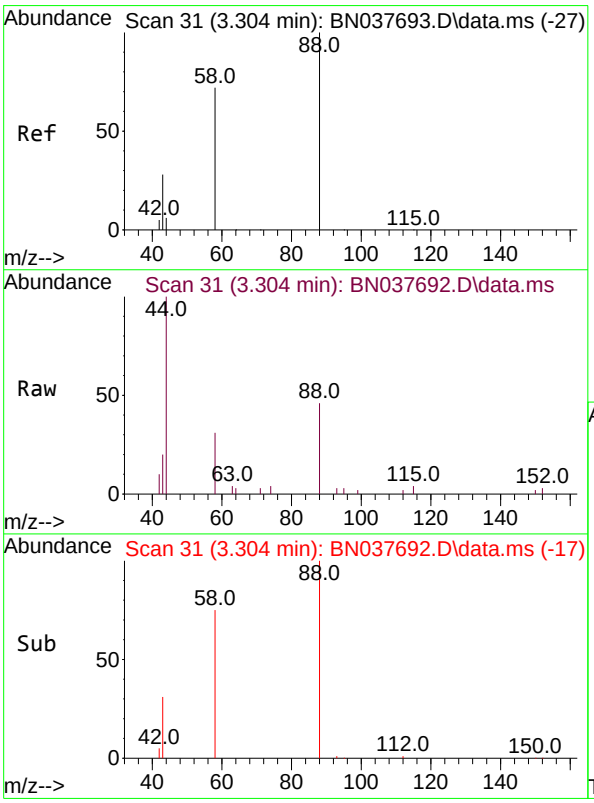
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 150 | 157.2 | 124.5 | 186.7 |
| 115 | 60.9 | 49.2 | 73.8 |




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

**Manual Integrations**
**APPROVED**

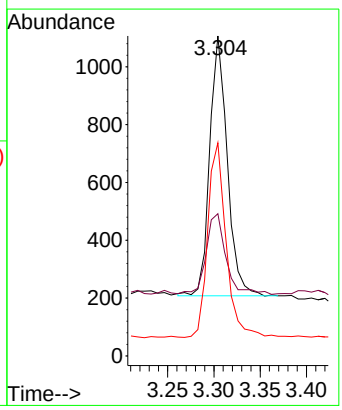
Reviewed By :Rahul Chavli 09/12/2025
Supervised By :Jagrut Upadhyay 09/12/2025

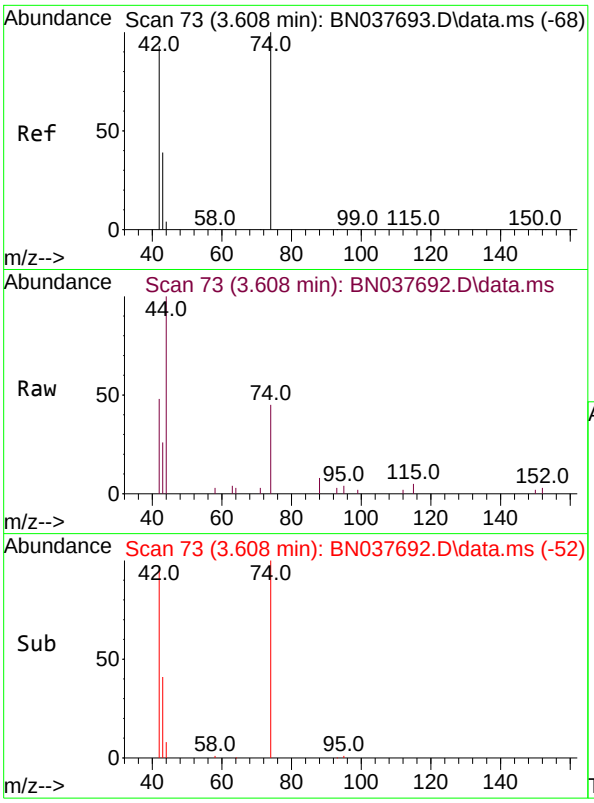



#2
1,4-Dioxane
Concen: 0.206 ng
RT: 3.304 min Scan# 31
Delta R.T. -0.000 min
Lab File: BN037692.D
Acq: 11 Sep 2025 10:32

Tgt Ion: 88 Resp: 1189

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 88 | 100 | | |
| 43 | 34.1 | 26.8 | 40.2 |
| 58 | 78.4 | 61.9 | 92.9 |

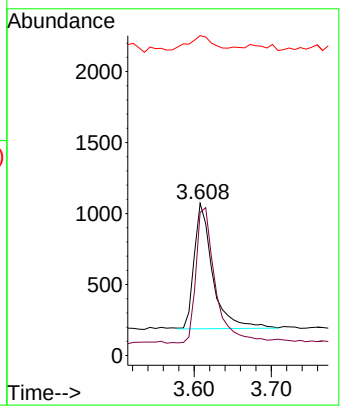





#3
n-Nitrosodimethylamine
Concen: 0.195 ng
RT: 3.608 min Scan# 7
Delta R.T. -0.000 min
Lab File: BN037692.D
Acq: 11 Sep 2025 10:32

Tgt Ion: 42 Resp: 147

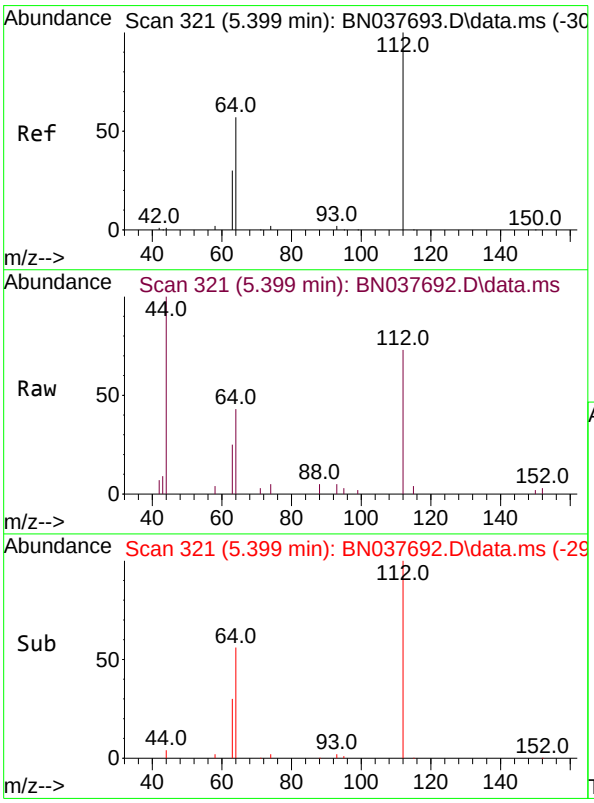
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 42 | 100 | | |
| 74 | 113.6 | 86.0 | 129.0 |
| 44 | 16.2 | 8.4 | 12.6# |




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

**Manual Integrations**
**APPROVED**

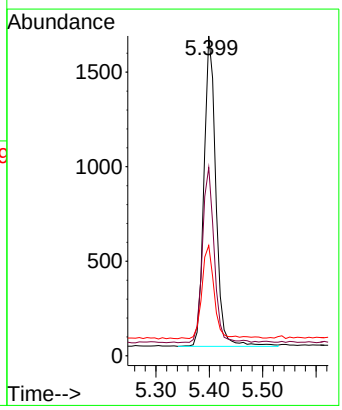
Reviewed By :Rahul Chavli 09/12/2025
Supervised By :Jagrut Upadhyay 09/12/2025

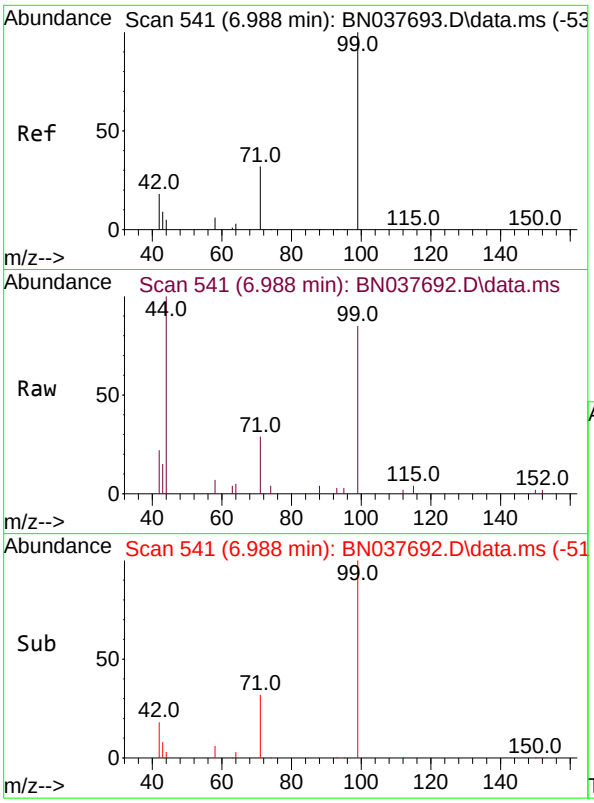



#4
2-Fluorophenol
Concen: 0.199 ng
RT: 5.399 min Scan# 321
Delta R.T. -0.000 min
Lab File: BN037692.D
Acq: 11 Sep 2025 10:32

Tgt Ion:112 Resp: 2533

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 112 | 100 | | |
| 64 | 55.5 | 44.9 | 67.3 |
| 63 | 30.4 | 24.7 | 37.1 |






#5
Phenol-d6
Concen: 0.200 ng
RT: 6.988 min Scan# 54
Delta R.T. -0.000 min
Lab File: BN037692.D
Acq: 11 Sep 2025 10:32

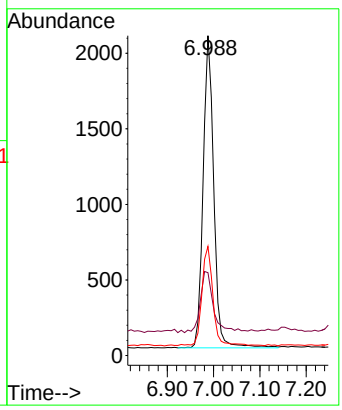
**Instrument :**
BNA_N
**ClientSampleId :**
SSTDICC0.2

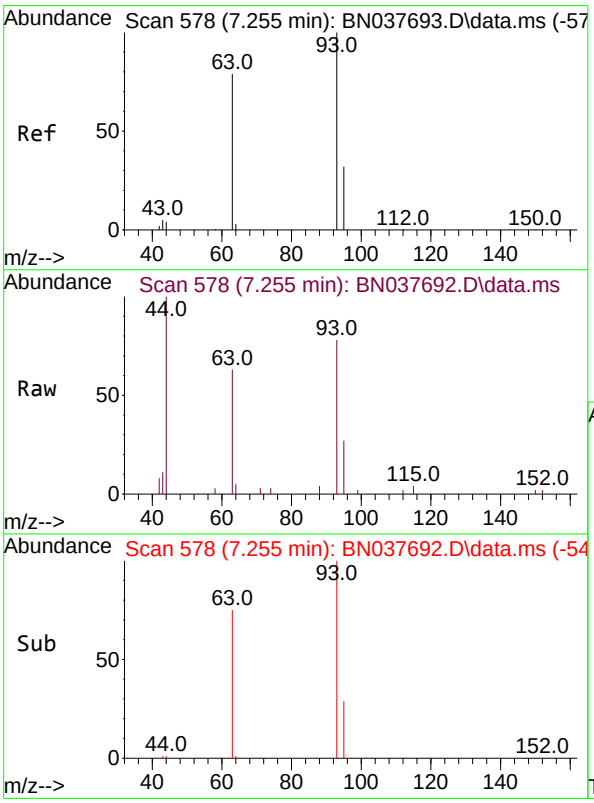
Tgt Ion: 99 Resp: 3308

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 99 | 100 | | |
| 42 | 24.3 | 16.6 | 24.8 |
| 71 | 32.8 | 26.7 | 40.1 |

**Manual Integrations**
**APPROVED**

Reviewed By :Rahul Chavli 09/12/2025
Supervised By :Jagrut Upadhyay 09/12/2025

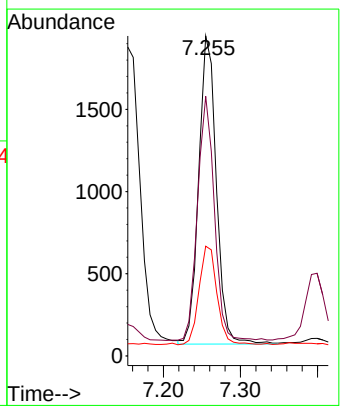


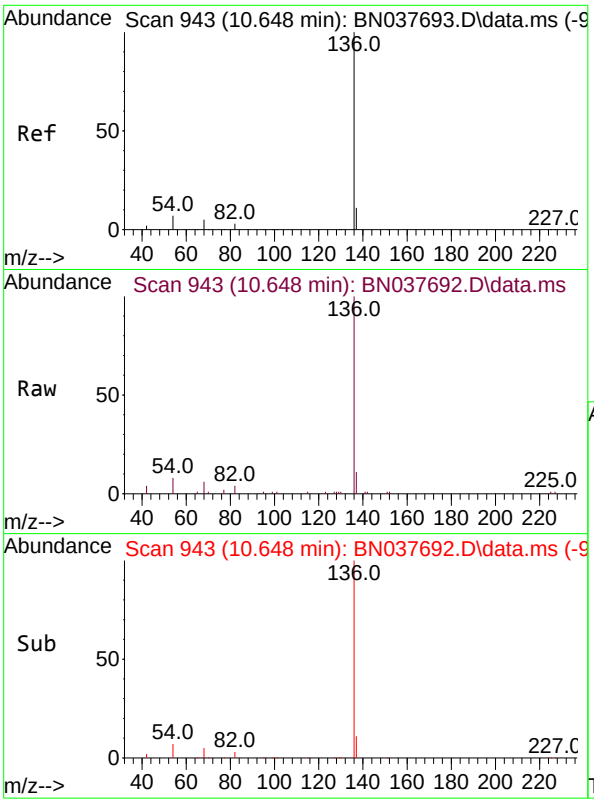




#6
bis(2-Chloroethyl)ether
Concen: 0.202 ng
RT: 7.255 min Scan# 578
Delta R.T. -0.000 min
Lab File: BN037692.D
Acq: 11 Sep 2025 10:32

Tgt Ion: 93 Resp: 2982

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 93 | 100 | | |
| 63 | 75.7 | 60.6 | 90.8 |
| 95 | 32.5 | 26.0 | 39.0 |

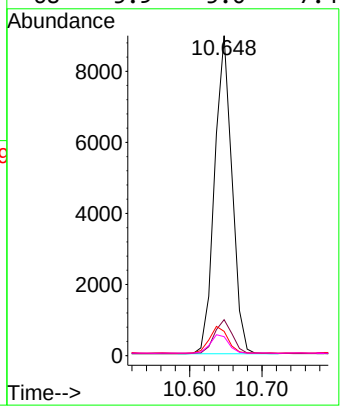





#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.648 min Scan# 94
Delta R.T. -0.000 min
Lab File: BN037692.D
Acq: 11 Sep 2025 10:32

Tgt Ion:136 Resp: 1501

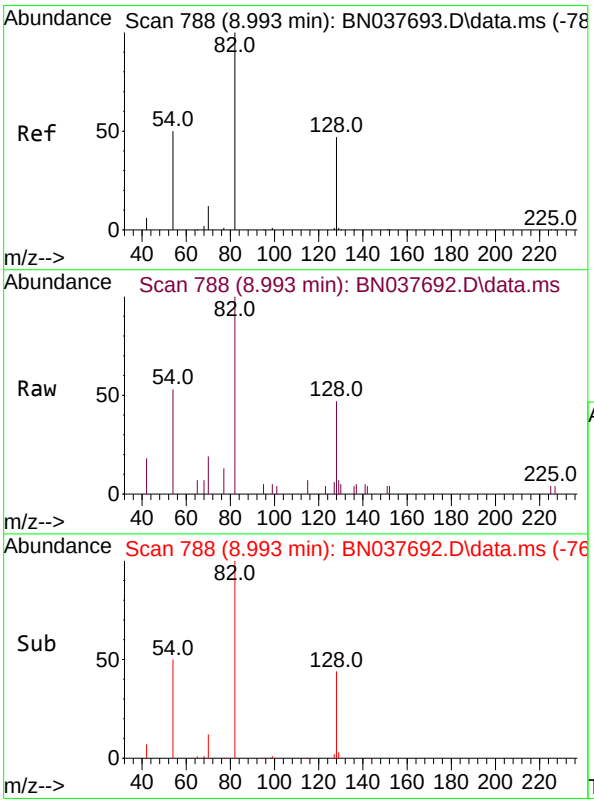
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 136 | 100 | | |
| 137 | 11.2 | 9.1 | 13.7 |
| 54 | 7.6 | 6.3 | 9.5 |
| 68 | 5.9 | 5.0 | 7.4 |




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

**Manual Integrations**
**APPROVED**

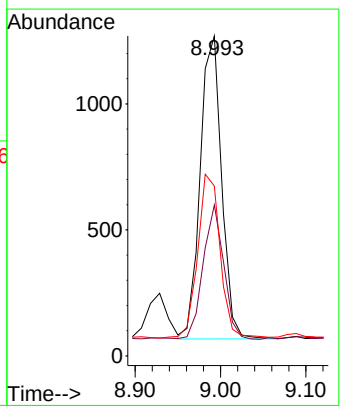
Reviewed By :Rahul Chavli 09/12/2025
Supervised By :Jagrut Upadhyay 09/12/2025

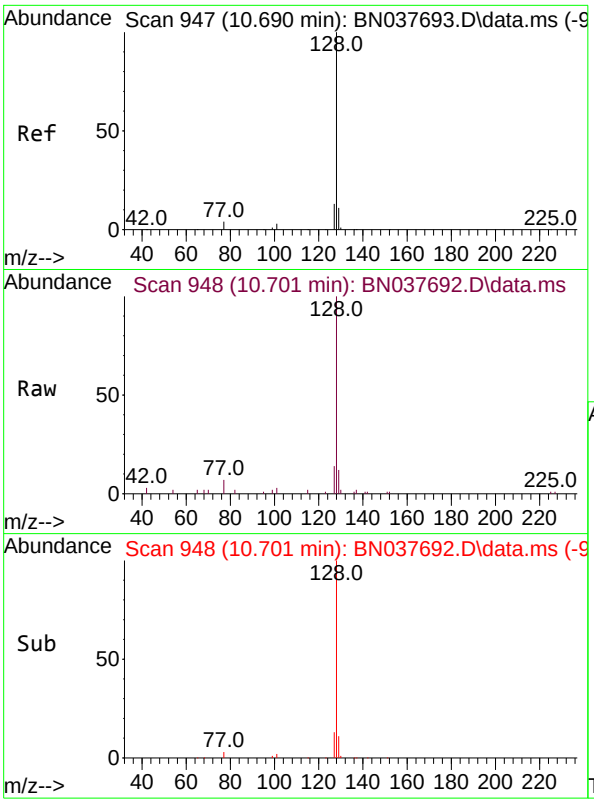



#8
Nitrobenzene-d5
Concen: 0.191 ng
RT: 8.993 min Scan# 788
Delta R.T. -0.000 min
Lab File: BN037692.D
Acq: 11 Sep 2025 10:32

Tgt Ion: 82 Resp: 2098

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 82 | 100 | | |
| 128 | 47.2 | 38.3 | 57.5 |
| 54 | 53.1 | 41.4 | 62.2 |

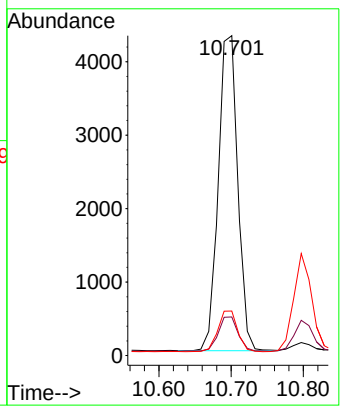





#9
Naphthalene
Concen: 0.196 ng
RT: 10.701 min Scan# 94
Delta R.T. 0.011 min
Lab File: BN037692.D
Acq: 11 Sep 2025 10:32

Tgt Ion:128 Resp: 805

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 128 | 100 | | |
| 129 | 12.1 | 9.1 | 13.7 |
| 127 | 13.9 | 10.9 | 16.3 |




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

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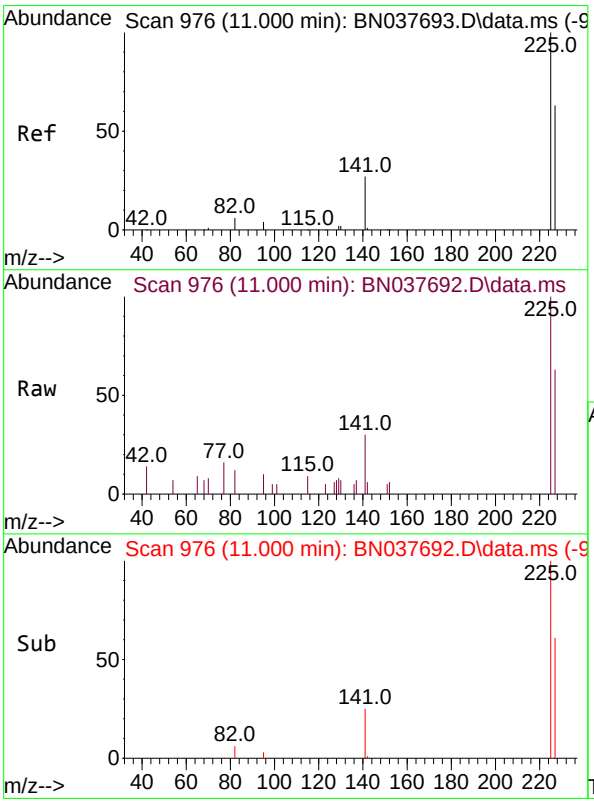
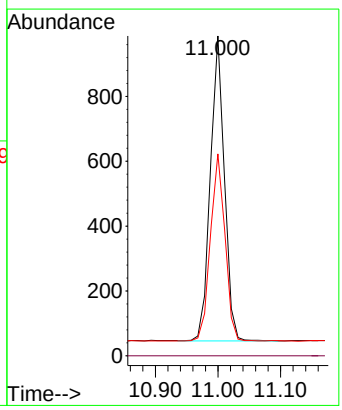
Supervised By :Jagrut Upadhyay 09/12/2025

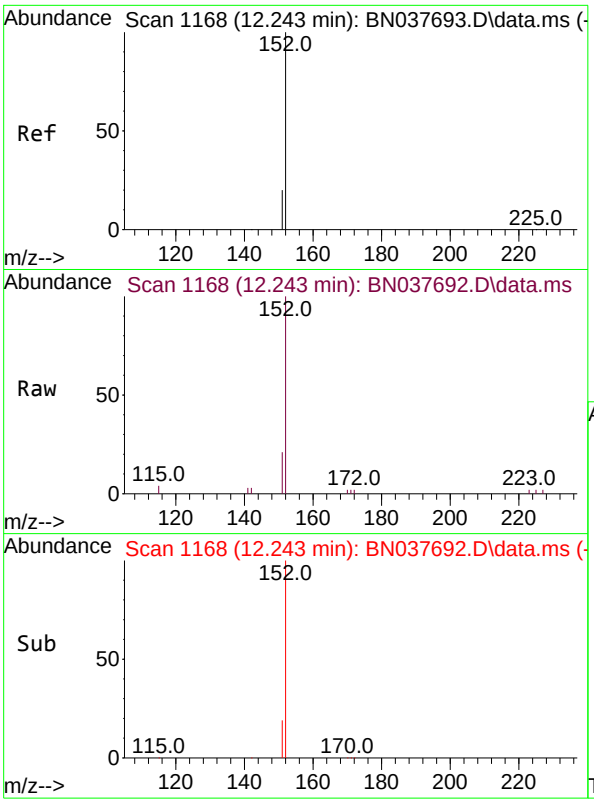



#10
Hexachlorobutadiene
Concen: 0.198 ng
RT: 11.000 min Scan# 976
Delta R.T. -0.000 min
Lab File: BN037692.D
Acq: 11 Sep 2025 10:32

Tgt Ion:225 Resp: 1472

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 225 | 100 | | |
| 223 | 0.0 | 0.0 | 0.0 |
| 227 | 63.2 | 50.9 | 76.3 |






#11
2-Methylnaphthalene-d10
Concen: 0.188 ng
RT: 12.243 min Scan# 11
Delta R.T. -0.000 min
Lab File: BN037692.D
Acq: 11 Sep 2025 10:32

Tgt Ion:152 Resp: 373

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

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

**Manual Integrations**
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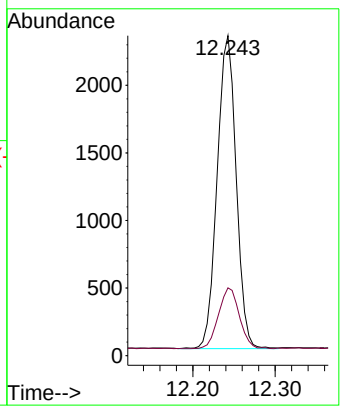
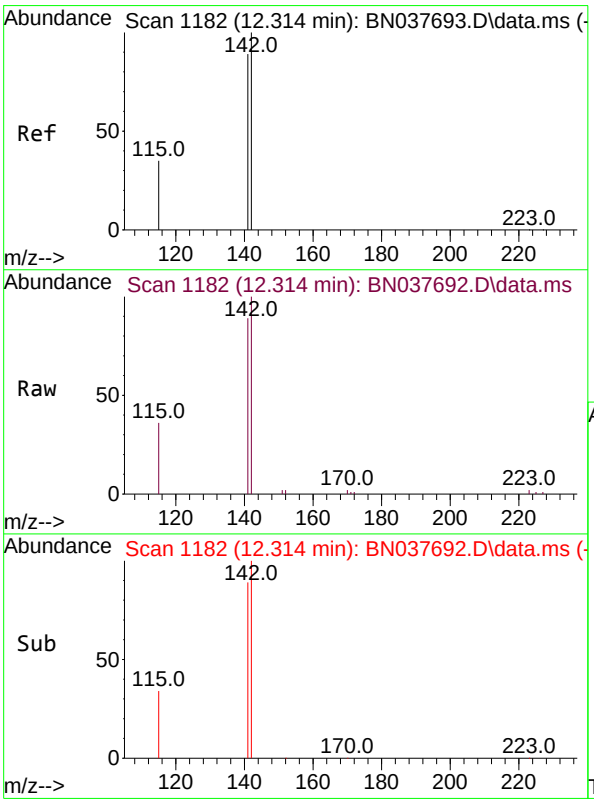
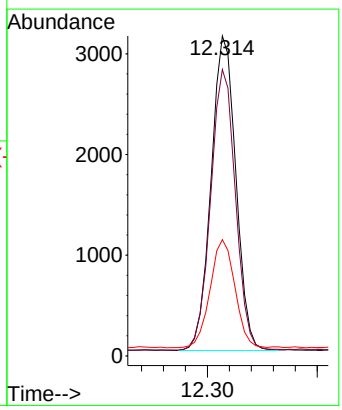


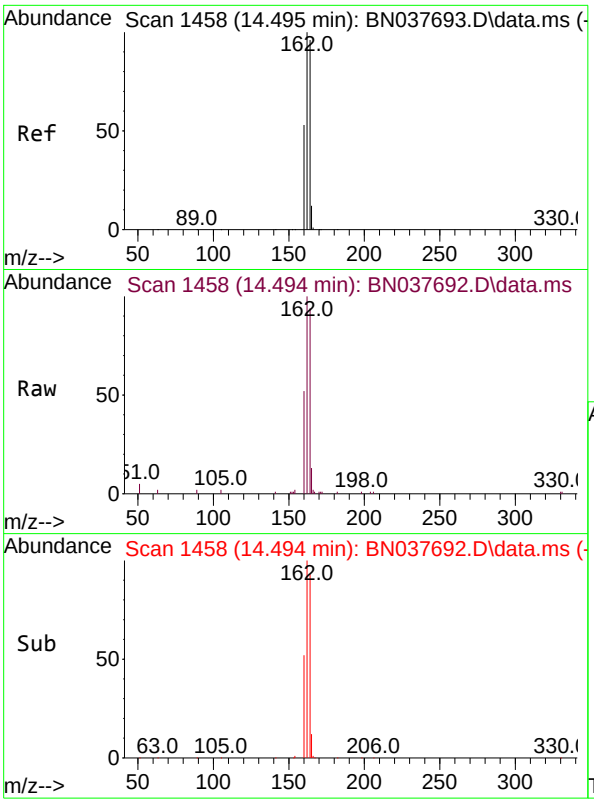




#12
2-Methylnaphthalene
Concen: 0.193 ng
RT: 12.314 min Scan# 1182
Delta R.T. -0.000 min
Lab File: BN037692.D
Acq: 11 Sep 2025 10:32

Tgt Ion:142 Resp: 4889

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 142 | 100 | | |
| 141 | 89.5 | 71.6 | 107.4 |
| 115 | 36.3 | 28.6 | 43.0 |

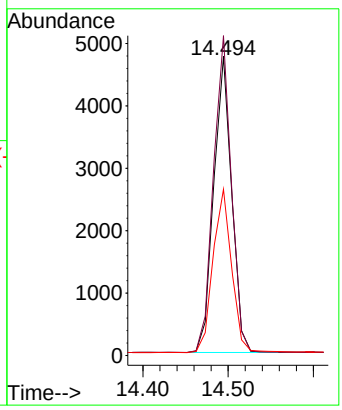





#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.494 min Scan# 14
Delta R.T. -0.000 min
Lab File: BN037692.D
Acq: 11 Sep 2025 10:32

Tgt Ion:164 Resp: 695

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 164 | 100 | | |
| 162 | 106.9 | 83.1 | 124.7 |
| 160 | 55.5 | 44.3 | 66.5 |




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

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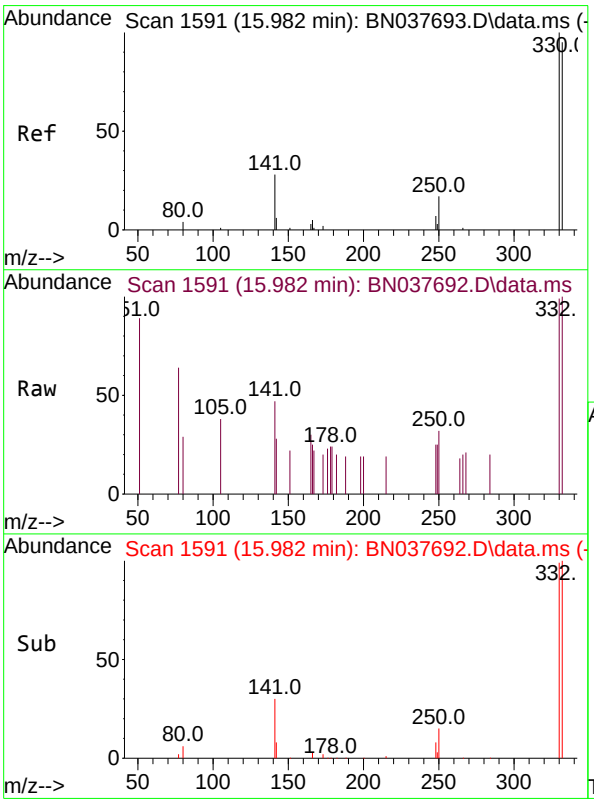
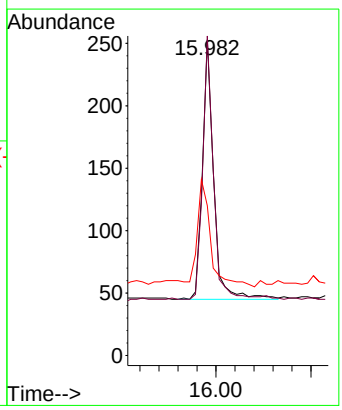
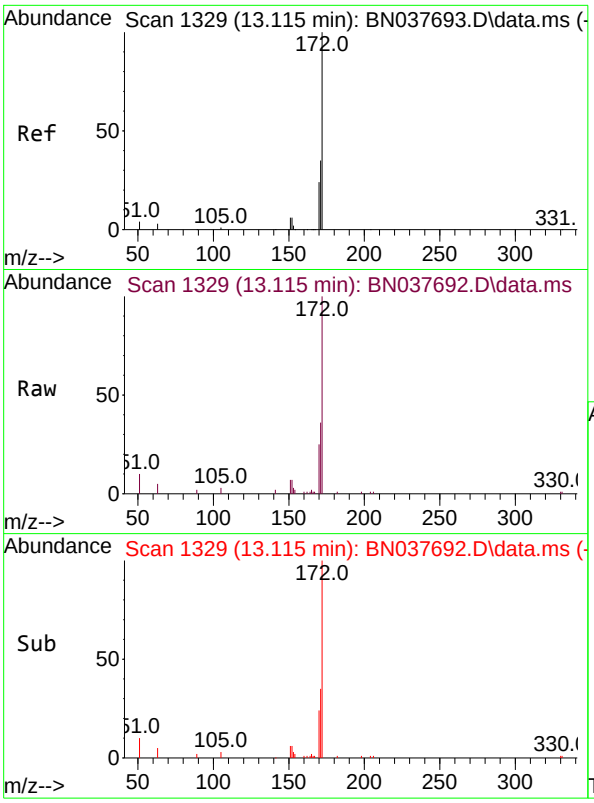



#14
2,4,6-Tribromophenol
Concen: 0.188 ng
RT: 15.982 min Scan# 1591
Delta R.T. -0.000 min
Lab File: BN037692.D
Acq: 11 Sep 2025 10:32

Tgt Ion:330 Resp: 340

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 330 | 100 | | |
| 332 | 95.6 | 75.3 | 112.9 |
| 141 | 49.4 | 35.0 | 52.4 |

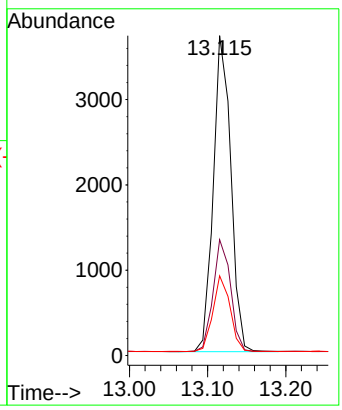





#15
2-Fluorobiphenyl
Concen: 0.199 ng
RT: 13.115 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN037692.D
Acq: 11 Sep 2025 10:32

Tgt Ion:172 Resp: 5791

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 172 | 100 | | |
| 171 | 36.2 | 28.6 | 43.0 |
| 170 | 24.9 | 19.8 | 29.8 |




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

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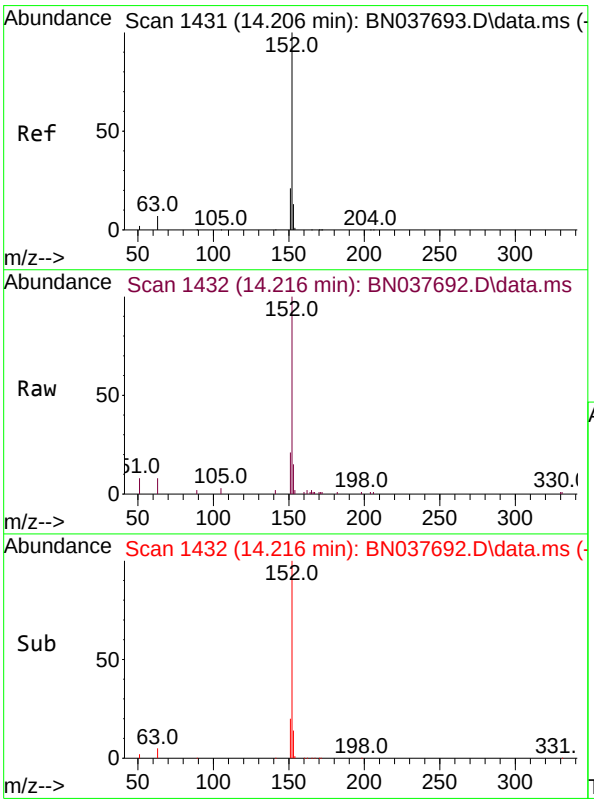
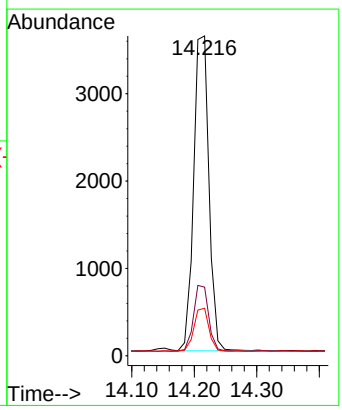
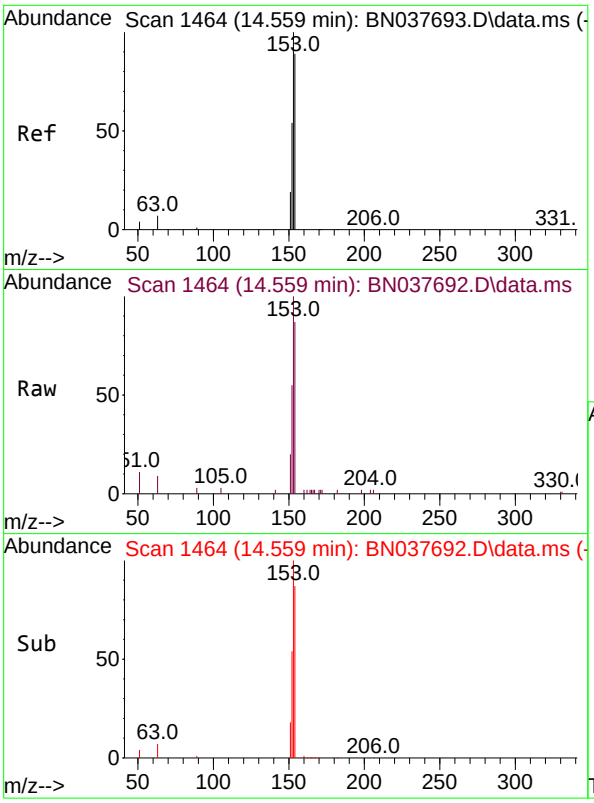



#16
Acenaphthylene
Concen: 0.191 ng
RT: 14.216 min Scan# 1432
Delta R.T. 0.011 min
Lab File: BN037692.D
Acq: 11 Sep 2025 10:32

Tgt Ion:152 Resp: 6105

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 151 | 20.8 | 16.2 | 24.2 |
| 153 | 13.8 | 10.4 | 15.6 |

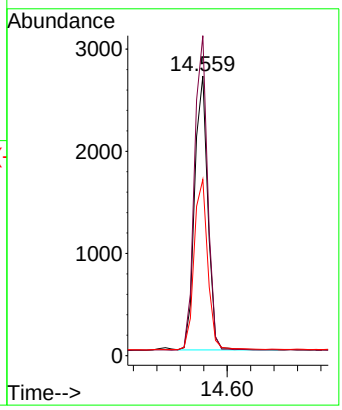





#17
Acenaphthene
Concen: 0.193 ng
RT: 14.559 min Scan# 14
Delta R.T. -0.000 min
Lab File: BN037692.D
Acq: 11 Sep 2025 10:32

Tgt Ion:154 Resp: 416

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 154 | 100 | | |
| 153 | 114.9 | 89.8 | 134.8 |
| 152 | 64.4 | 50.2 | 75.2 |




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

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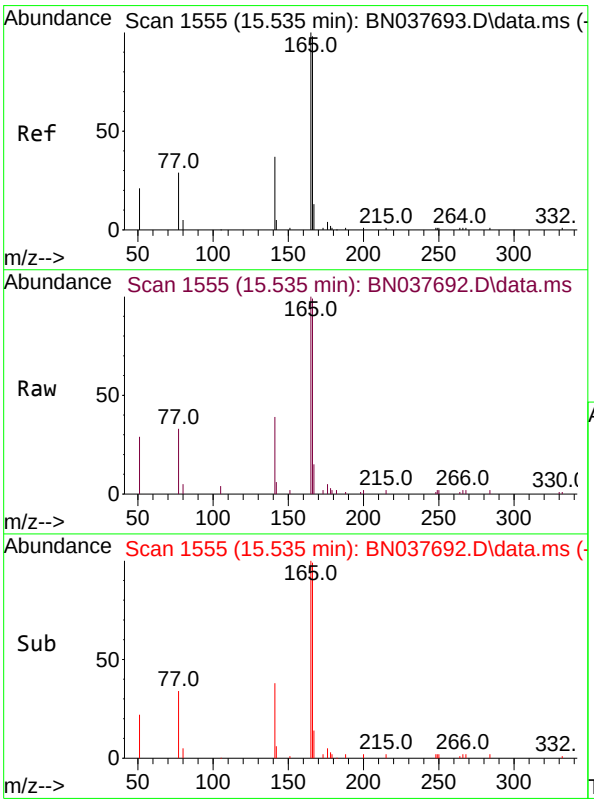
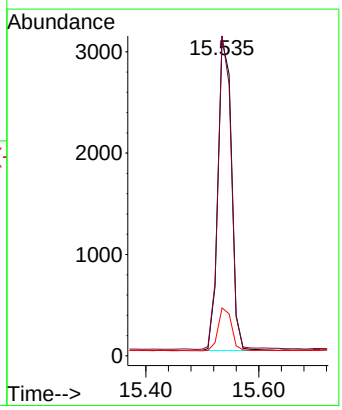
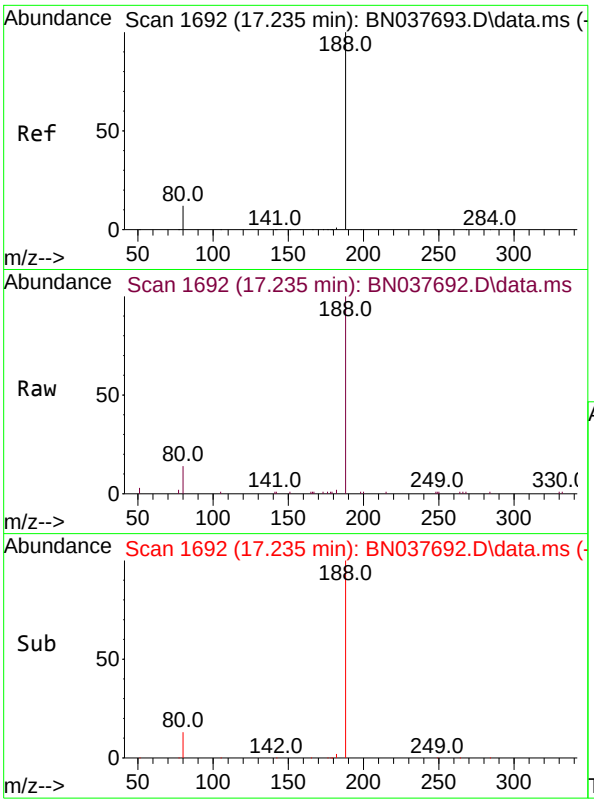



#18
Fluorene
Concen: 0.187 ng
RT: 15.535 min Scan# 1555
Delta R.T. -0.000 min
Lab File: BN037692.D
Acq: 11 Sep 2025 10:32

Tgt Ion:166 Resp: 4875

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 166 | 100 | | |
| 165 | 102.3 | 79.6 | 119.4 |
| 167 | 14.5 | 10.6 | 16.0 |






#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.235 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN037692.D
Acq: 11 Sep 2025 10:32

Tgt Ion:188 Resp: 1238

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 188 | 100 | | |
| 94 | 0.0 | 0.0 | 0.0 |
| 80 | 13.7 | 10.6 | 15.8 |

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

**Manual Integrations**
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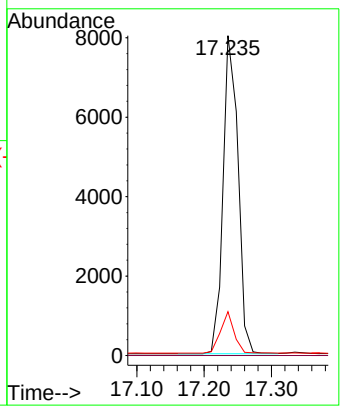
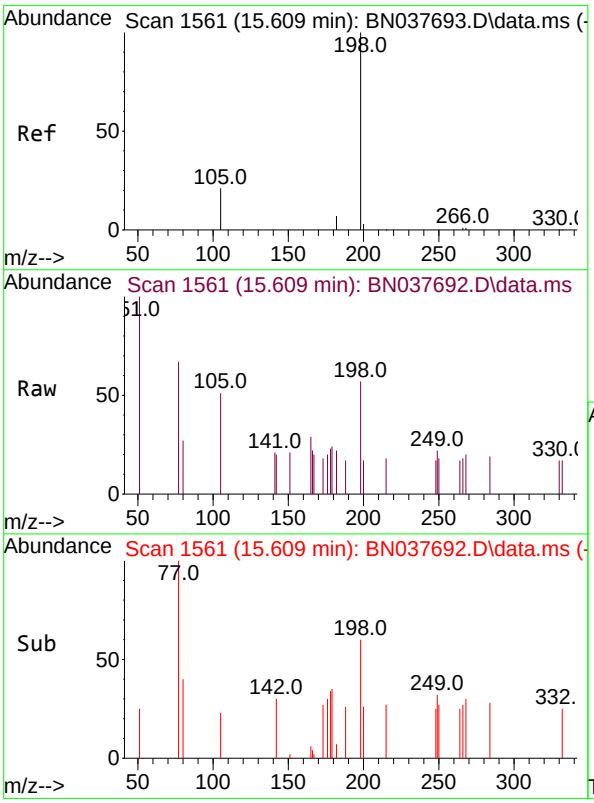
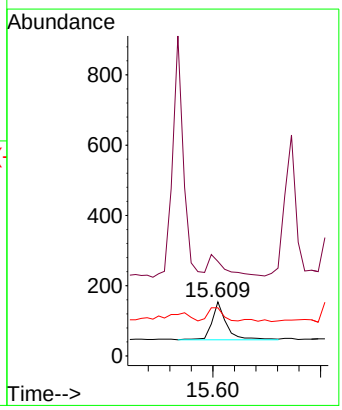


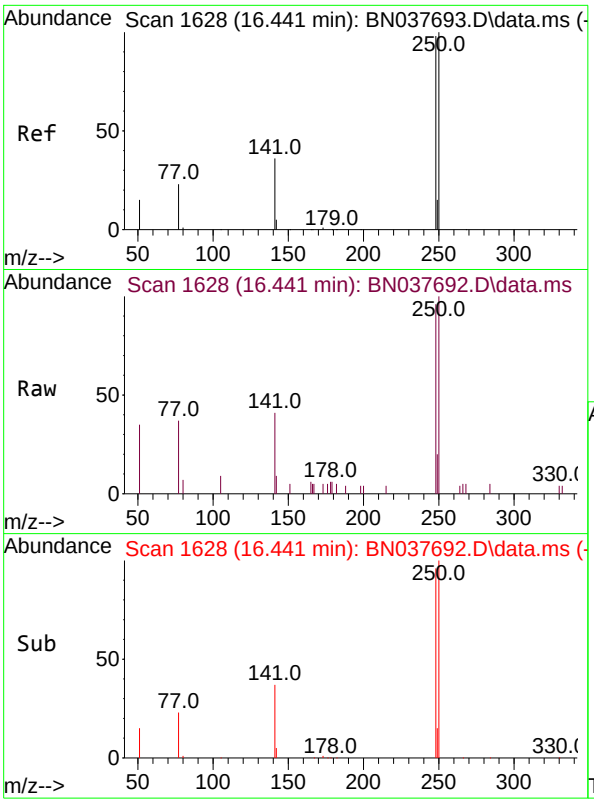




#20
4,6-Dinitro-2-methylphenol
Concen: 0.175 ng
RT: 15.609 min Scan# 1561
Delta R.T. 0.000 min
Lab File: BN037692.D
Acq: 11 Sep 2025 10:32

Tgt Ion:198 Resp: 201

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 198 | 100 | | |
| 51 | 174.7 | 95.1 | 142.7# |
| 105 | 89.0 | 53.8 | 80.6# |

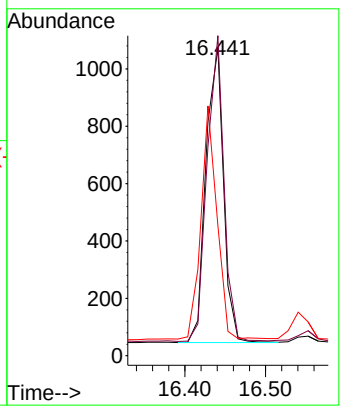





#21
4-Bromophenyl-phenylether
Concen: 0.193 ng
RT: 16.441 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN037692.D
Acq: 11 Sep 2025 10:32

Tgt Ion:248 Resp: 156

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 248 | 100 | | |
| 250 | 104.0 | 81.5 | 122.3 |
| 141 | 42.3 | 30.8 | 46.2 |




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

**Manual Integrations**
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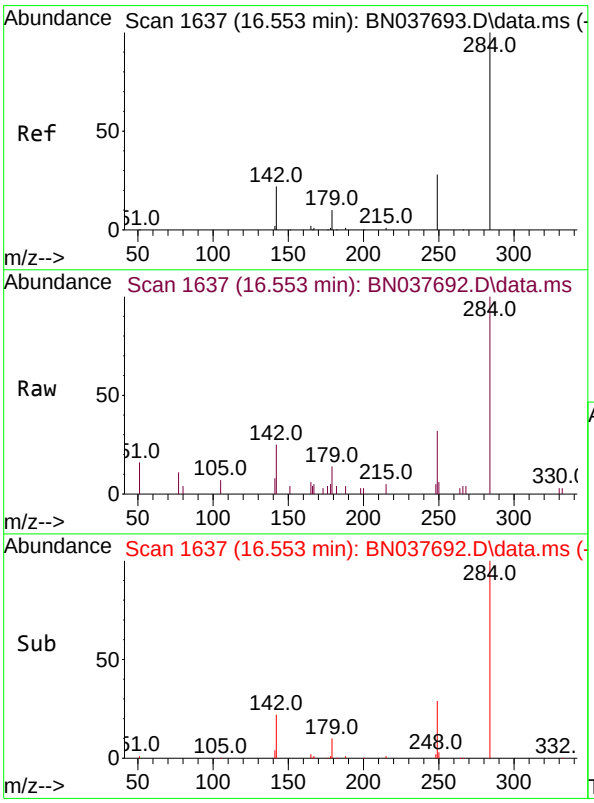
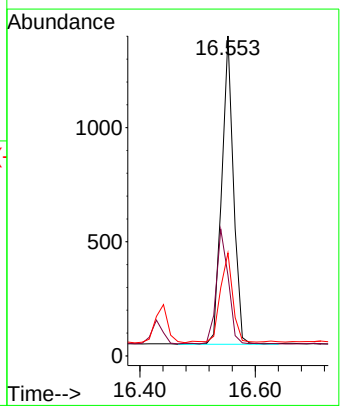
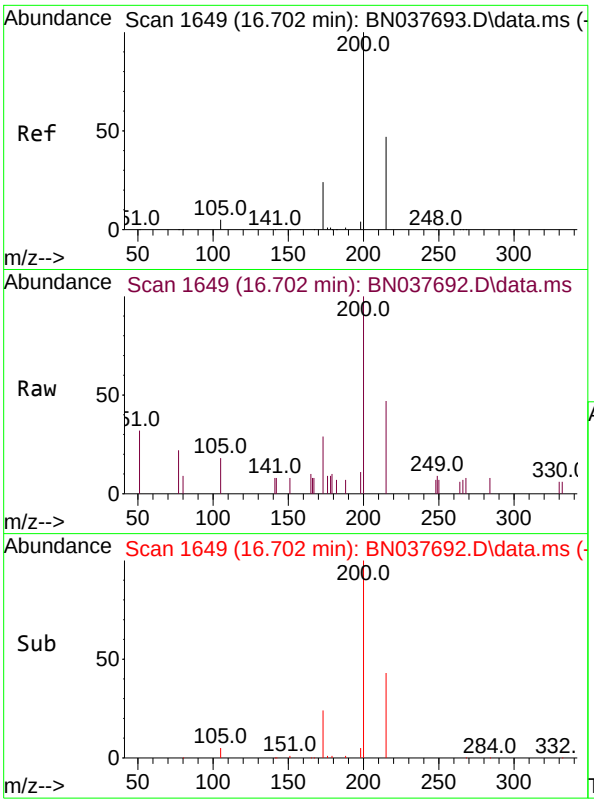



#22
Hexachlorobenzene
Concen: 0.205 ng
RT: 16.553 min Scan# 1637
Delta R.T. -0.000 min
Lab File: BN037692.D
Acq: 11 Sep 2025 10:32

Tgt Ion:284 Resp: 1906

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 284 | 100 | | |
| 142 | 38.4 | 30.9 | 46.3 |
| 249 | 31.4 | 24.8 | 37.2 |

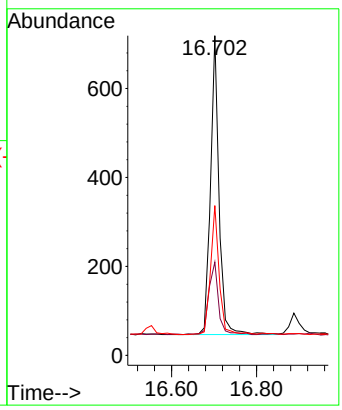





#23
Atrazine
Concen: 0.181 ng
RT: 16.702 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN037692.D
Acq: 11 Sep 2025 10:32

Tgt Ion:200 Resp: 93

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 200 | 100 | | |
| 173 | 29.2 | 21.4 | 32.2 |
| 215 | 46.9 | 39.2 | 58.8 |




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

**Manual Integrations**
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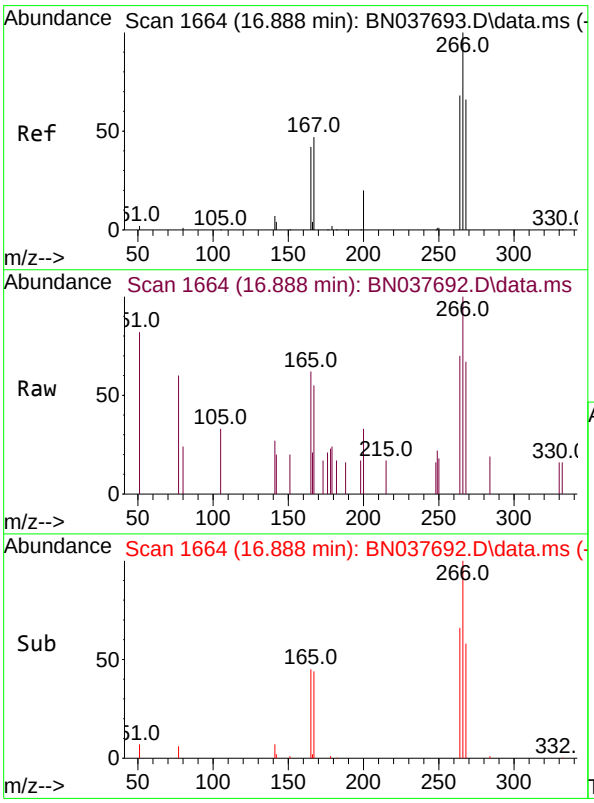
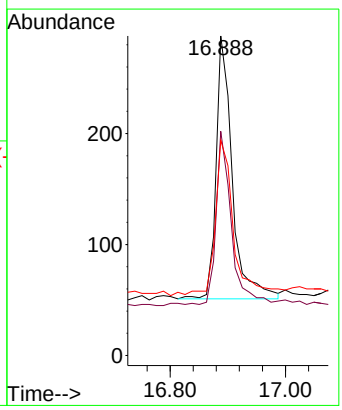
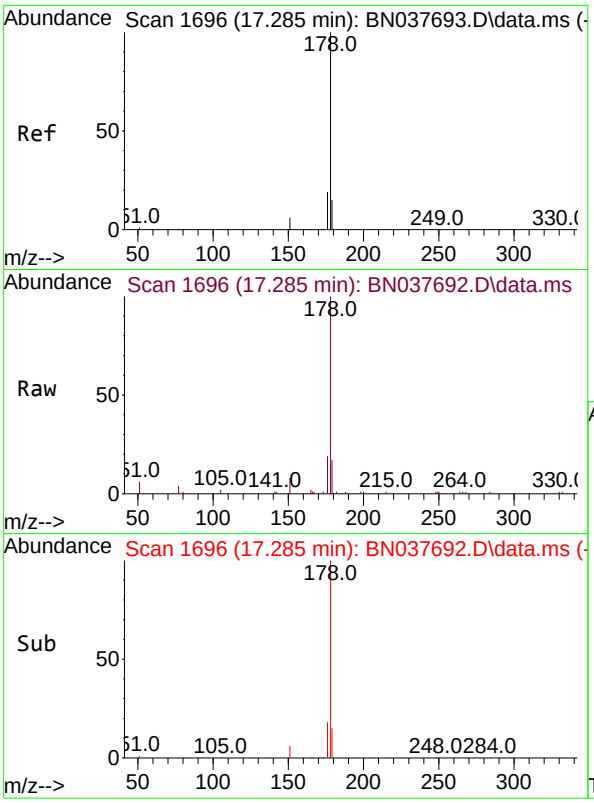



#24
Pentachlorophenol
Concen: 0.171 ng
RT: 16.888 min Scan# 1664
Delta R.T. -0.000 min
Lab File: BN037692.D
Acq: 11 Sep 2025 10:32

Tgt Ion:266 Resp: 461

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 266 | 100 | | |
| 264 | 61.6 | 51.6 | 77.4 |
| 268 | 67.5 | 53.2 | 79.8 |

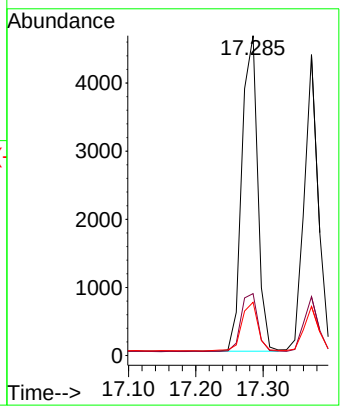





#25
Phenanthrene
Concen: 0.193 ng
RT: 17.285 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN037692.D
Acq: 11 Sep 2025 10:32

Tgt Ion:178 Resp: 752

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 178 | 100 | | |
| 176 | 19.9 | 15.3 | 22.9 |
| 179 | 15.7 | 12.2 | 18.2 |




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

**Manual Integrations**
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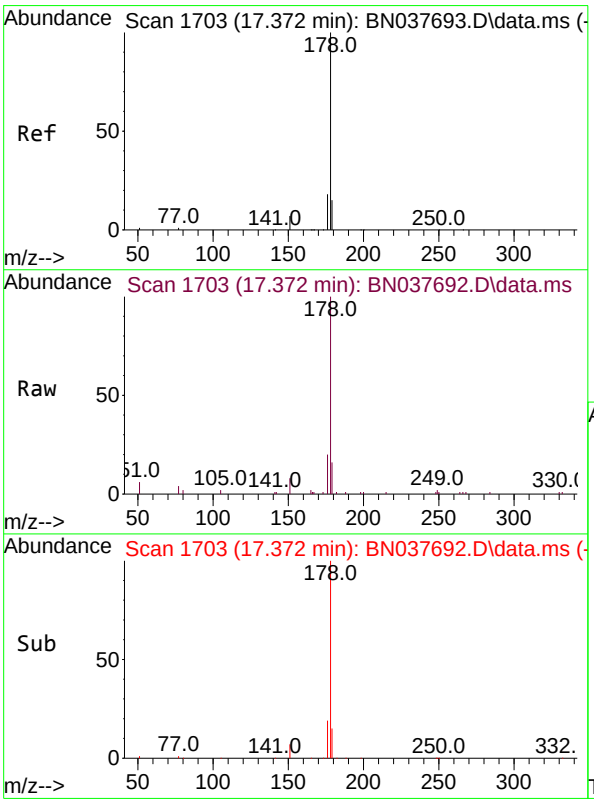
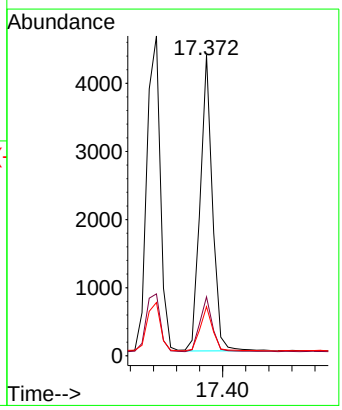
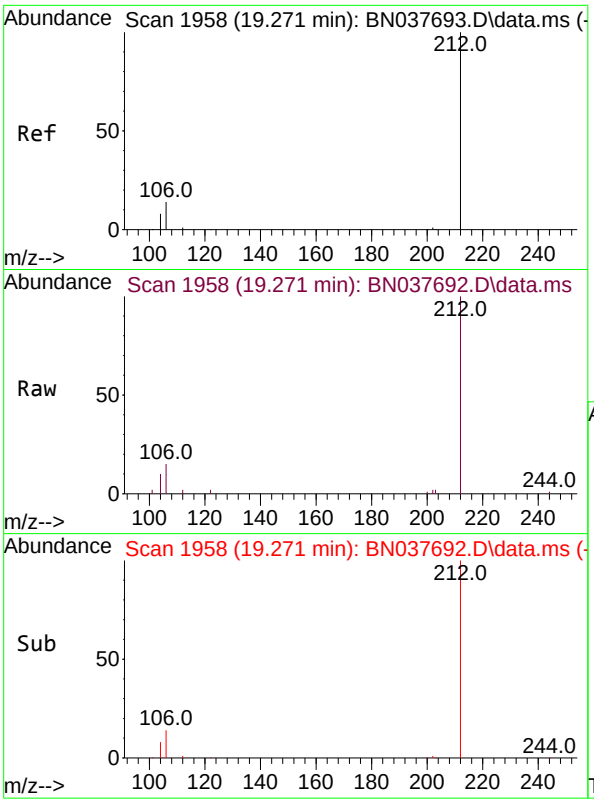



#26
Anthracene
Concen: 0.185 ng
RT: 17.372 min Scan# 1703
Delta R.T. -0.000 min
Lab File: BN037692.D
Acq: 11 Sep 2025 10:32

Tgt Ion:178 Resp: 6375

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 178 | 100 | | |
| 176 | 19.0 | 14.6 | 22.0 |
| 179 | 15.4 | 12.2 | 18.4 |

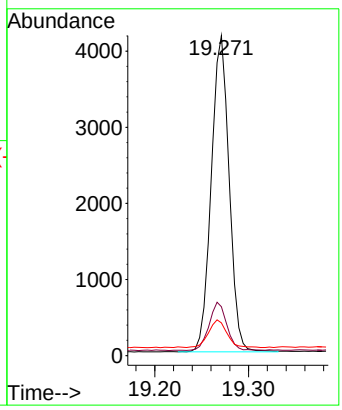





#27
Fluoranthene-d10
Concen: 0.177 ng
RT: 19.271 min Scan# 19
Delta R.T. -0.000 min
Lab File: BN037692.D
Acq: 11 Sep 2025 10:32

Tgt Ion:212 Resp: 549

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 212 | 100 | | |
| 106 | 15.4 | 12.2 | 18.2 |
| 104 | 9.0 | 6.9 | 10.3 |




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

**Manual Integrations**
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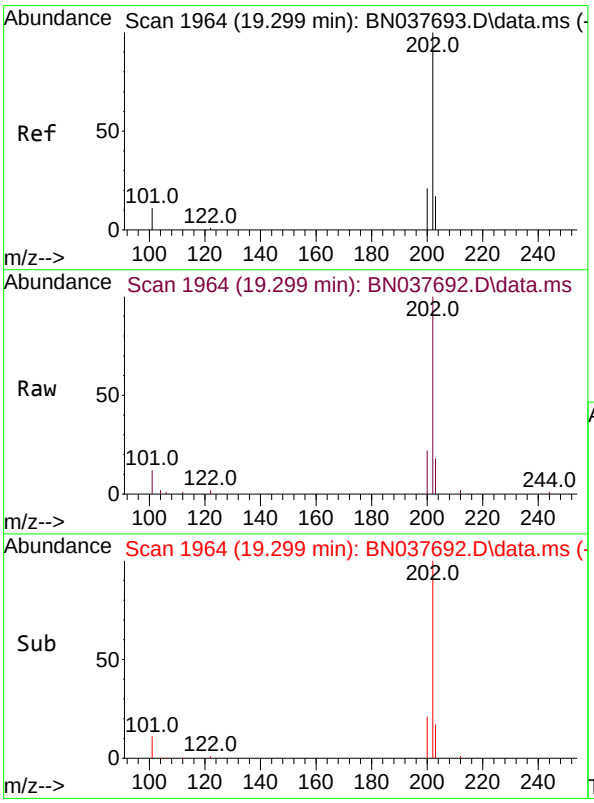
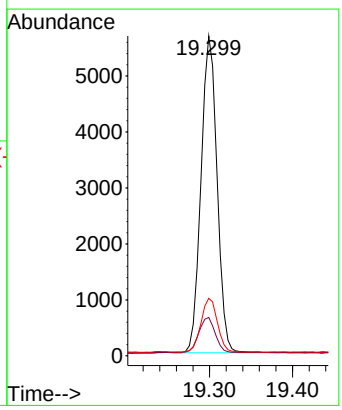
Reviewed By :Rahul Chavli 09/12/2025
Supervised By :Jagrut Upadhyay 09/12/2025

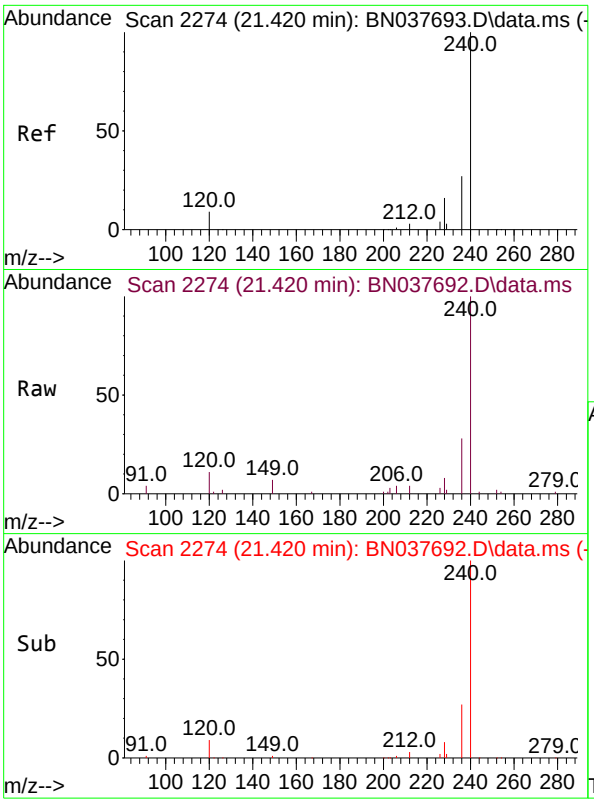



#28
Fluoranthene
Concen: 0.177 ng
RT: 19.299 min Scan# 1964
Delta R.T. -0.000 min
Lab File: BN037692.D
Acq: 11 Sep 2025 10:32

Tgt Ion:202 Resp: 7577

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 202 | 100 | | |
| 101 | 11.7 | 9.3 | 13.9 |
| 203 | 17.1 | 13.7 | 20.5 |

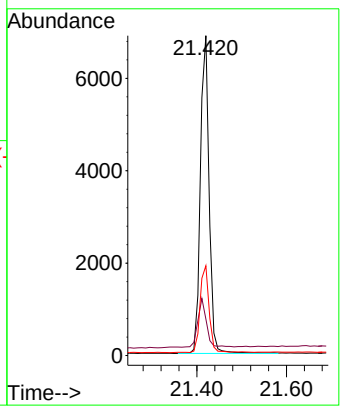





#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.420 min Scan# 2
Delta R.T. -0.000 min
Lab File: BN037692.D
Acq: 11 Sep 2025 10:32

Tgt Ion:240 Resp: 932

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 240 | 100 | | |
| 120 | 11.4 | 9.2 | 13.8 |
| 236 | 28.1 | 22.6 | 33.8 |




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

**Manual Integrations**
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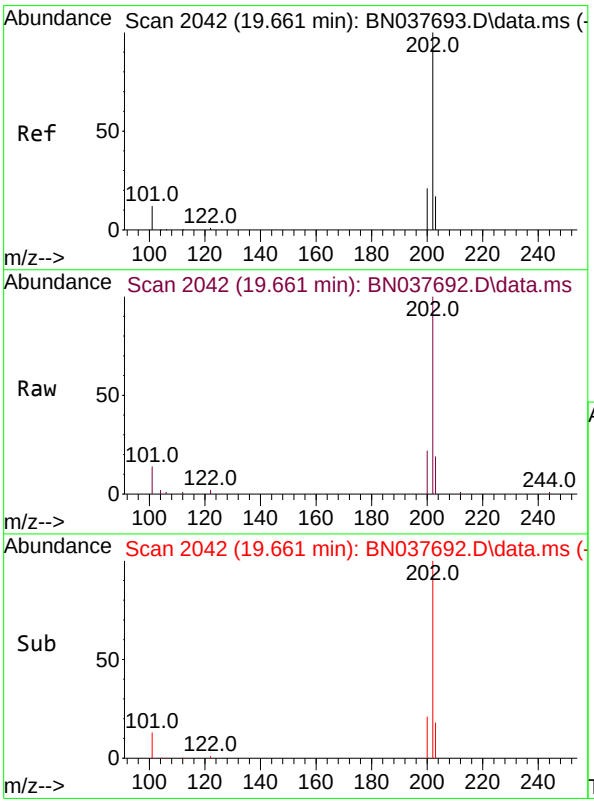
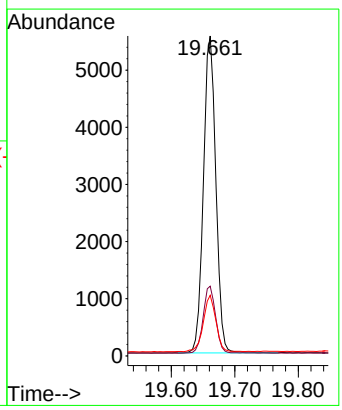
Supervised By :Jagrut Upadhyay 09/12/2025

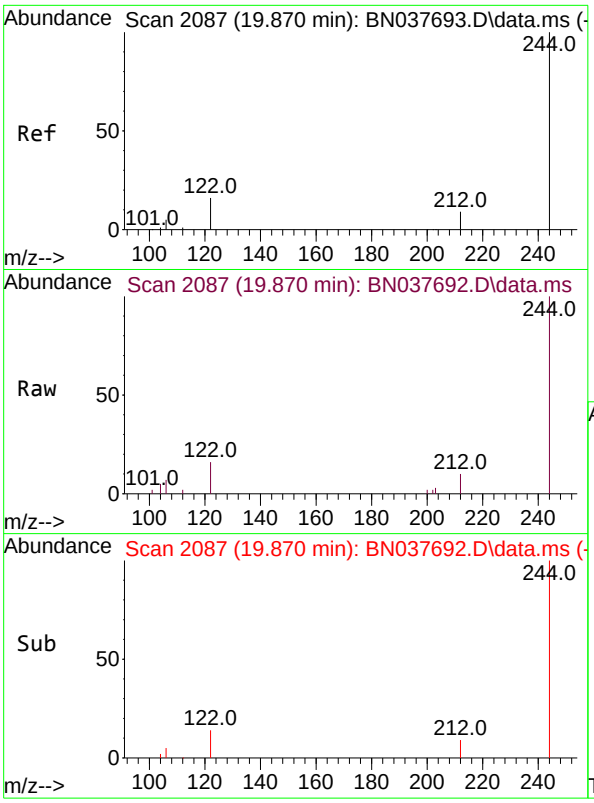



#30
Pyrene
Concen: 0.207 ng
RT: 19.661 min Scan# 2042
Delta R.T. -0.000 min
Lab File: BN037692.D
Acq: 11 Sep 2025 10:32

Tgt Ion:202 Resp: 7543

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 202 | 100 | | |
| 200 | 21.2 | 16.8 | 25.2 |
| 203 | 18.3 | 14.3 | 21.5 |

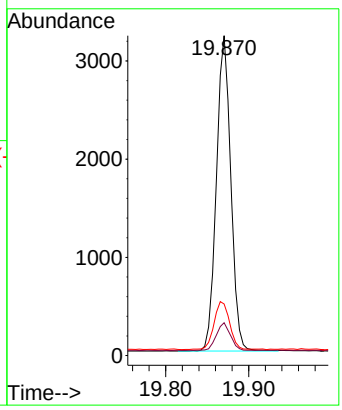





#31
Terphenyl-d14
Concen: 0.205 ng
RT: 19.870 min Scan# 20
Delta R.T. -0.000 min
Lab File: BN037692.D
Acq: 11 Sep 2025 10:32

Tgt Ion:244 Resp: 388

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 244 | 100 | | |
| 212 | 10.3 | 7.5 | 11.3 |
| 122 | 16.1 | 13.2 | 19.8 |




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

**Manual Integrations**
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Reviewed By :Rahul Chavli 09/12/2025
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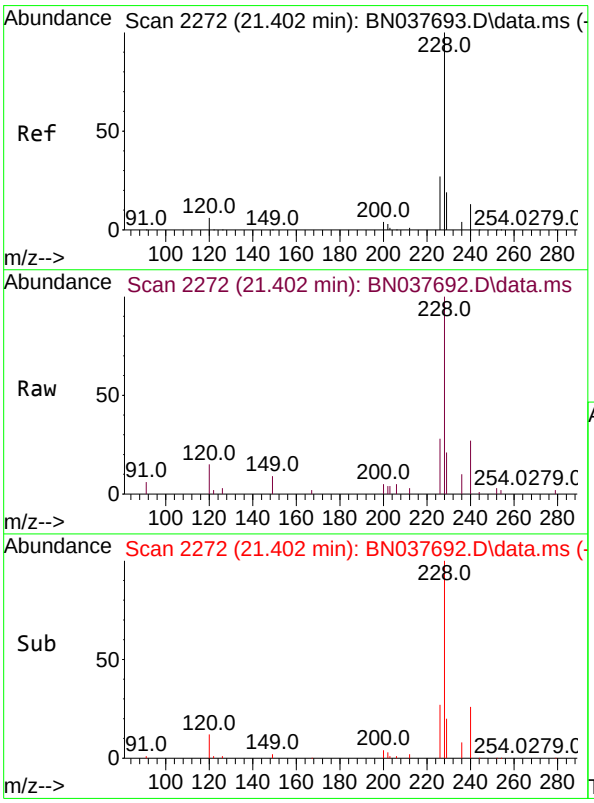
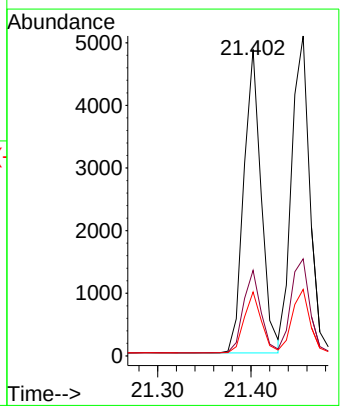
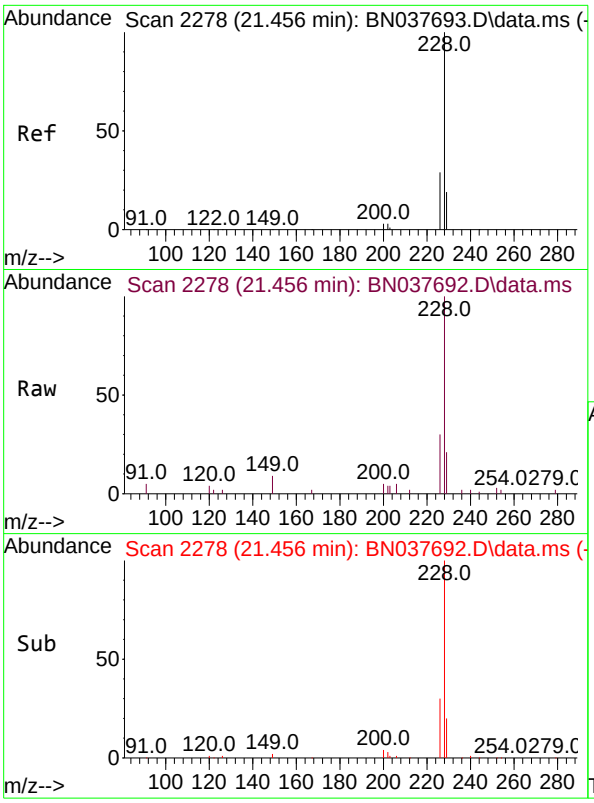



#32
Benzo(a)anthracene
Concen: 0.193 ng
RT: 21.402 min Scan# 2272
Delta R.T. -0.000 min
Lab File: BN037692.D
Acq: 11 Sep 2025 10:32

Tgt Ion:228 Resp: 6270

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 228 | 100 | | |
| 226 | 27.9 | 22.2 | 33.2 |
| 229 | 20.8 | 15.8 | 23.6 |

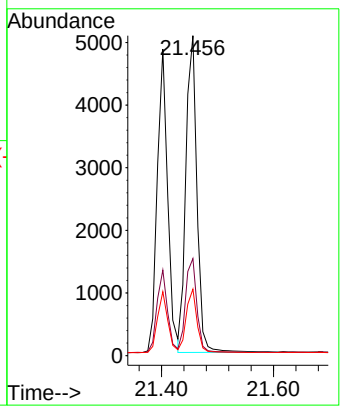





#33
Chrysene
Concen: 0.199 ng
RT: 21.456 min Scan# 2
Delta R.T. -0.000 min
Lab File: BN037692.D
Acq: 11 Sep 2025 10:32

Tgt Ion:228 Resp: 695

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 228 | 100 | | |
| 226 | 30.3 | 23.5 | 35.3 |
| 229 | 20.8 | 15.9 | 23.9 |




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

**Manual Integrations**
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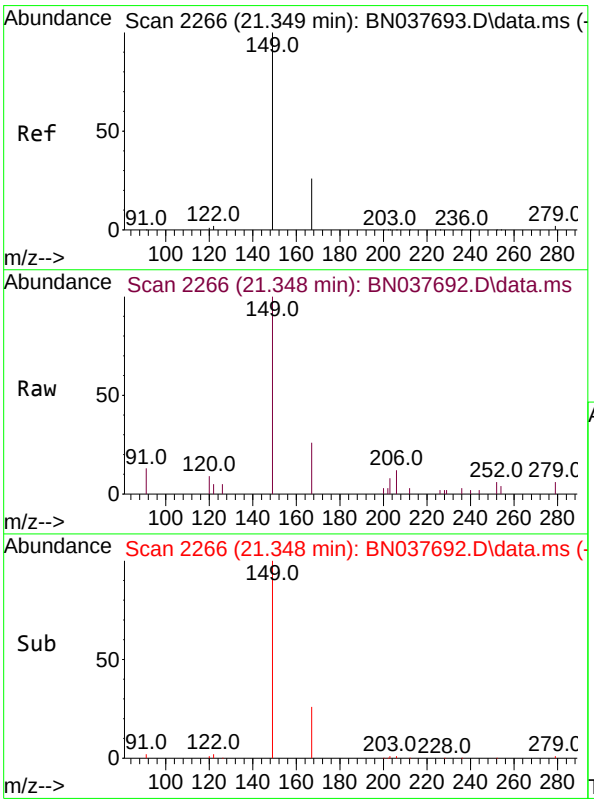
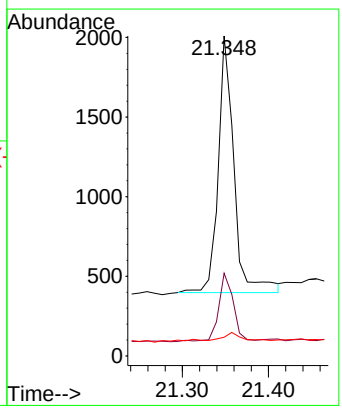
Reviewed By :Rahul Chavli 09/12/2025
Supervised By :Jagrut Upadhyay 09/12/2025

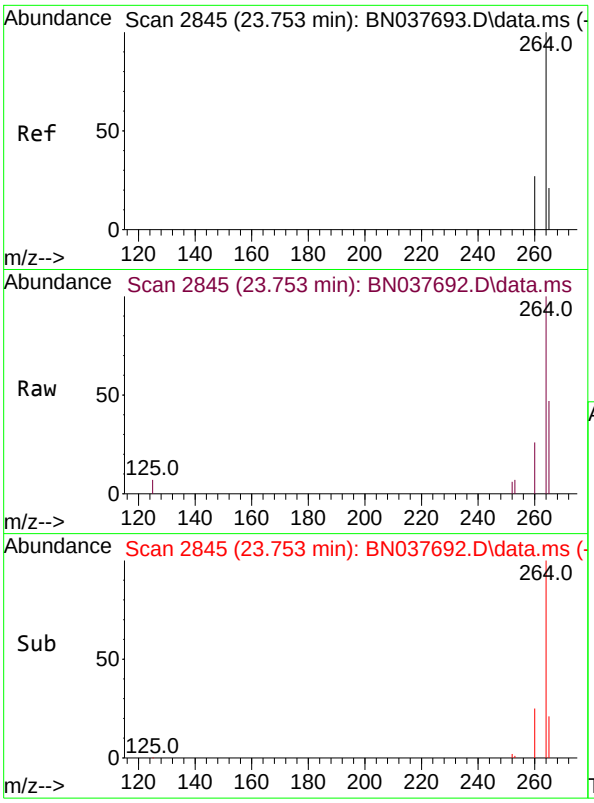



#34
Bis(2-ethylhexyl)phthalate
Concen: 0.213 ng
RT: 21.348 min Scan# 2266
Delta R.T. -0.000 min
Lab File: BN037692.D
Acq: 11 Sep 2025 10:32

Tgt Ion:149 Resp: 2049

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 149 | 100 | | |
| 167 | 24.7 | 20.8 | 31.2 |
| 279 | 3.1 | 3.3 | 4.9# |

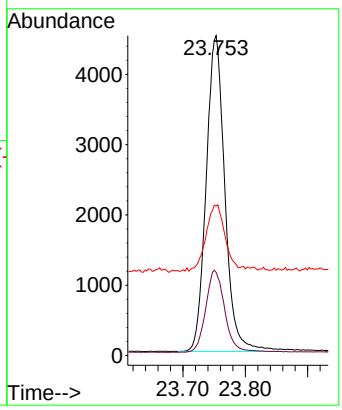





#35
Perylene-d12
Concen: 0.400 ng
RT: 23.753 min Scan# 28
Delta R.T. -0.000 min
Lab File: BN037692.D
Acq: 11 Sep 2025 10:32

Tgt Ion:264 Resp: 9364

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 264 | 100 | | |
| 260 | 26.0 | 21.8 | 32.8 |
| 265 | 46.7 | 39.4 | 59.2 |




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

**Manual Integrations**
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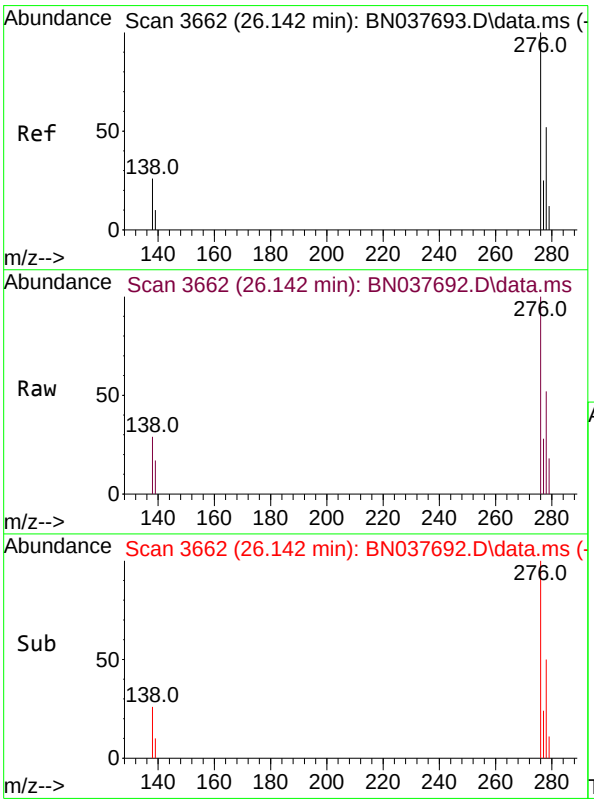
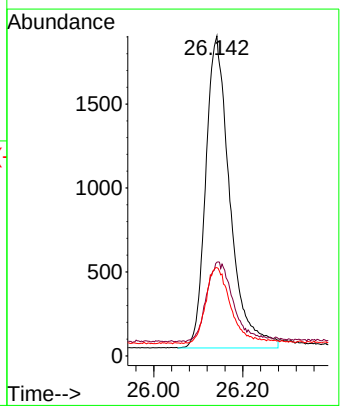
Reviewed By :Rahul Chavli 09/12/2025
Supervised By :Jagrut Upadhyay 09/12/2025

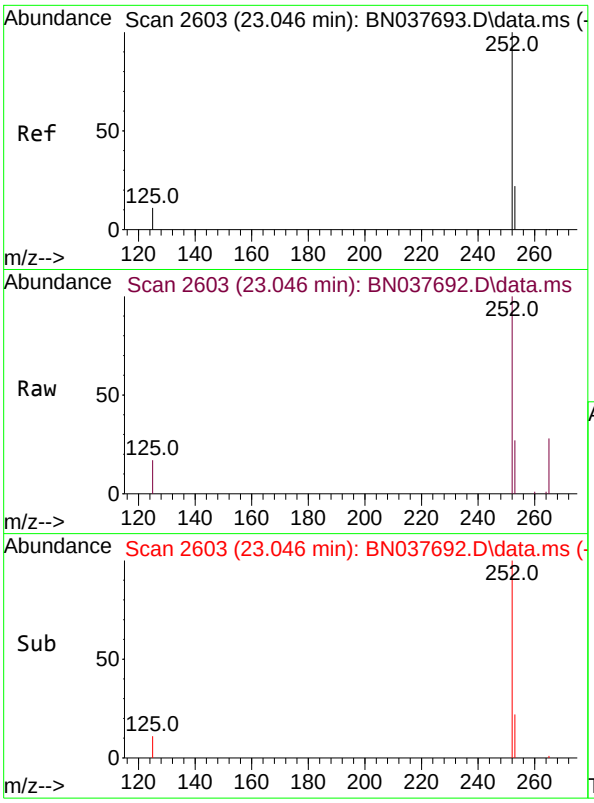



#36
Indeno(1,2,3-cd)pyrene
Concen: 0.177 ng
RT: 26.142 min Scan# 3662
Delta R.T. -0.000 min
Lab File: BN037692.D
Acq: 11 Sep 2025 10:32

Tgt Ion:276 Resp: 6982

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 276 | 100 | | |
| 138 | 28.1 | 21.9 | 32.9 |
| 277 | 24.6 | 20.1 | 30.1 |

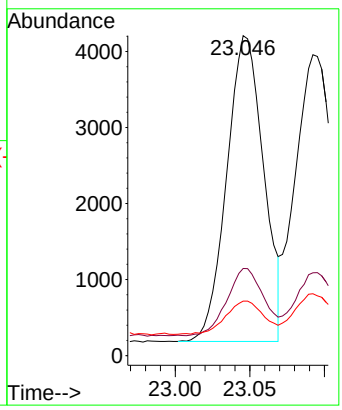





#37
Benzo(b)fluoranthene
Concen: 0.187 ng
RT: 23.046 min Scan# 2
Delta R.T. -0.000 min
Lab File: BN037692.D
Acq: 11 Sep 2025 10:32

Tgt Ion:252 Resp: 690

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 27.3 | 19.4 | 29.2 |
| 125 | 17.0 | 11.2 | 16.8# |




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

**Manual Integrations**
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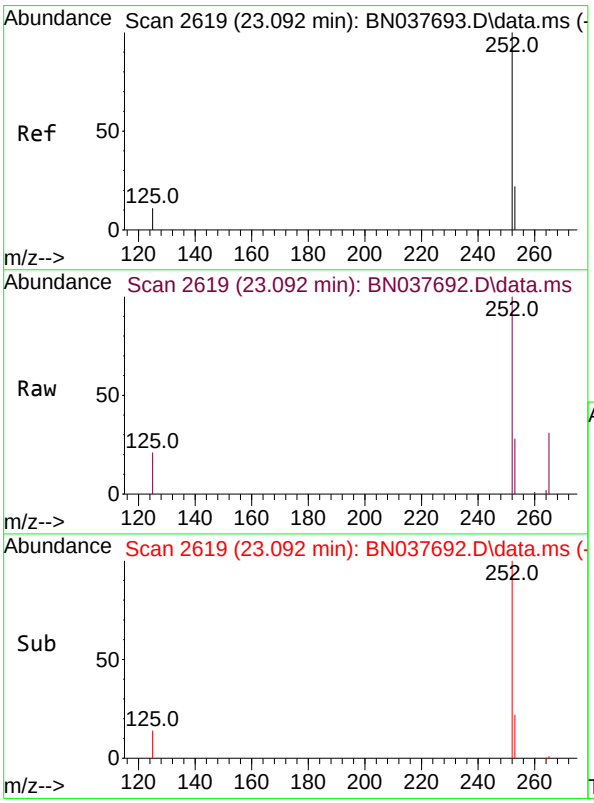
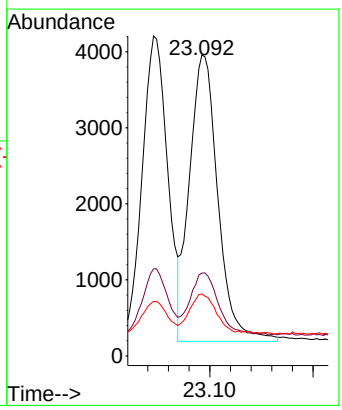
Reviewed By :Rahul Chavli 09/12/2025
Supervised By :Jagrut Upadhyay 09/12/2025

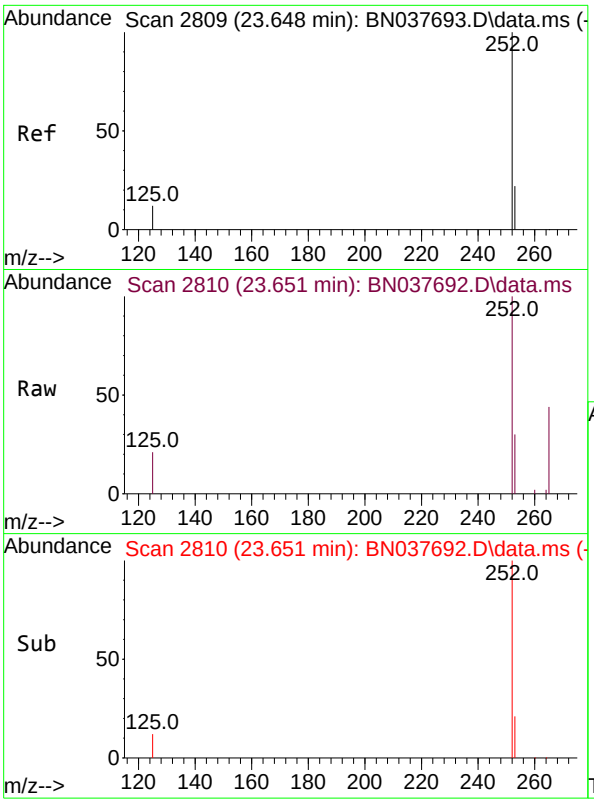



#38
Benzo(k)fluoranthene
Concen: 0.192 ng m
RT: 23.092 min Scan# 2619
Delta R.T. -0.000 min
Lab File: BN037692.D
Acq: 11 Sep 2025 10:32

Tgt Ion:252 Resp: 7226

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 27.5 | 19.4 | 29.0 |
| 125 | 20.6 | 11.6 | 17.4# |

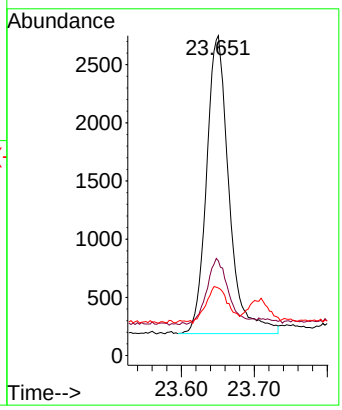





#39
Benzo(a)pyrene
Concen: 0.186 ng
RT: 23.651 min Scan# 28
Delta R.T. 0.003 min
Lab File: BN037692.D
Acq: 11 Sep 2025 10:32

Tgt Ion:252 Resp: 548

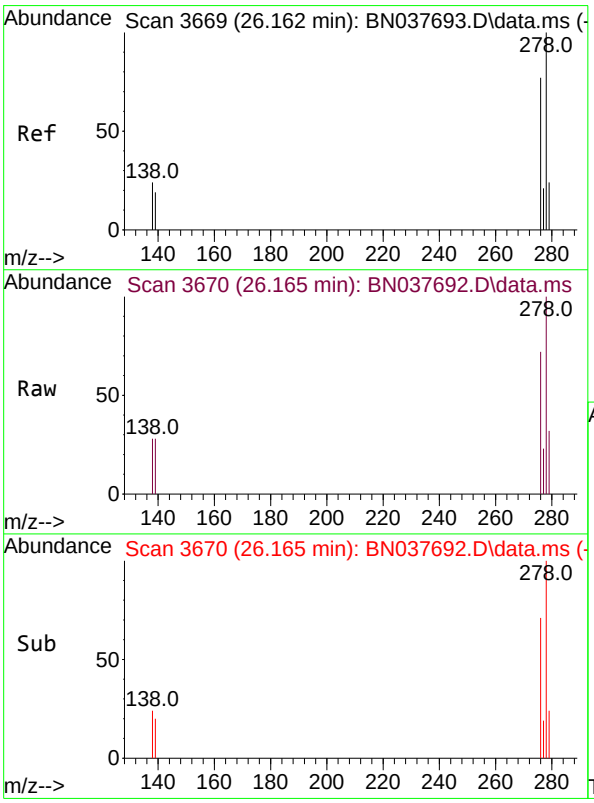
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 29.6 | 20.8 | 31.2 |
| 125 | 21.1 | 13.9 | 20.9# |




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

**Manual Integrations**
**APPROVED**

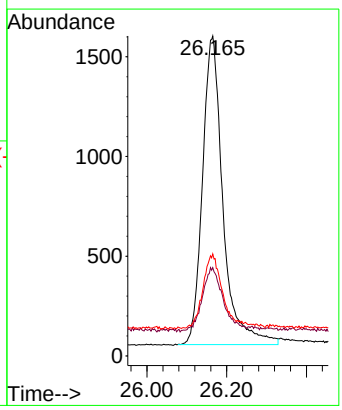
Reviewed By :Rahul Chavli 09/12/2025
Supervised By :Jagrut Upadhyay 09/12/2025

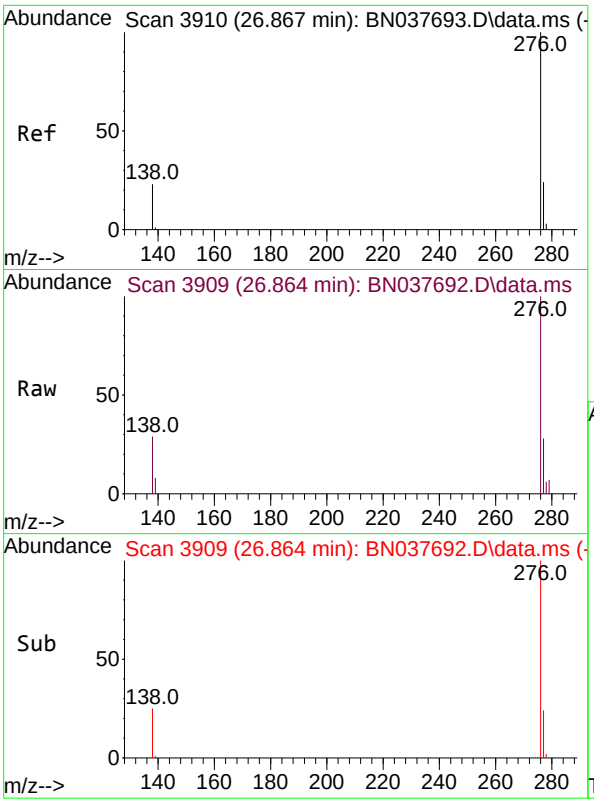



#40
Dibenzo(a,h)anthracene
Concen: 0.175 ng
RT: 26.165 min Scan# 3670
Delta R.T. 0.003 min
Lab File: BN037692.D
Acq: 11 Sep 2025 10:32

Tgt Ion:278 Resp: 5503

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 278 | 100 | | |
| 139 | 27.6 | 17.8 | 26.6# |
| 279 | 31.9 | 22.0 | 33.0 |

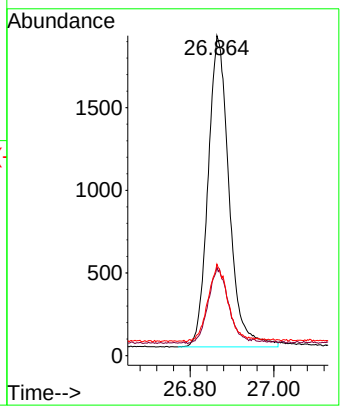





#41
Benzo(g,h,i)perylene
Concen: 0.186 ng
RT: 26.864 min Scan# 3
Delta R.T. -0.003 min
Lab File: BN037692.D
Acq: 11 Sep 2025 10:32

Tgt Ion:276 Resp: 656

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 276 | 100 | | |
| 277 | 27.6 | 20.6 | 31.0 |
| 138 | 28.6 | 20.2 | 30.2 |




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

**Manual Integrations**
**APPROVED**

Reviewed By :Rahul Chavli 09/12/2025
Supervised By :Jagrut Upadhyay 09/12/2025

Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN091125\
Data File : BN037693.D
Acq On : 11 Sep 2025 11:08
Operator : RC/JU
Sample : SSTDICCC0.4
Misc :
ALS Vial : 5 Sample Multiplier: 1

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

Quant Time: Sep 11 14:06:04 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN091125.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Sep 11 14:02:44 2025
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| Internal Standards | | | | | | | |
| 1) 1,4-Dichlorobenzene-d4 | 7.840 | 152 | 4992 | 0.400 | ng | | 0.00 |
| 7) Naphthalene-d8 | 10.648 | 136 | 13249 | 0.400 | ng | | 0.00 |
| 13) Acenaphthene-d10 | 14.495 | 164 | 6204 | 0.400 | ng | | 0.00 |
| 19) Phenanthrene-d10 | 17.235 | 188 | 11263 | 0.400 | ng | | 0.00 |
| 29) Chrysene-d12 | 21.420 | 240 | 9368 | 0.400 | ng | | 0.00 |
| 35) Perylene-d12 | 23.753 | 264 | 8965 | 0.400 | ng | | 0.00 |
| System Monitoring Compounds | | | | | | | |
| 4) 2-Fluorophenol | 5.399 | 112 | 4452 | 0.388 | ng | | 0.00 |
| 5) Phenol-d6 | 6.988 | 99 | 5771 | 0.388 | ng | | 0.00 |
| 8) Nitrobenzene-d5 | 8.993 | 82 | 3770 | 0.389 | ng | | 0.00 |
| 11) 2-Methylnaphthalene-d10 | 12.243 | 152 | 6602 | 0.376 | ng | | 0.00 |
| 14) 2,4,6-Tribromophenol | 15.982 | 330 | 625 | 0.386 | ng | | 0.00 |
| 15) 2-Fluorobiphenyl | 13.115 | 172 | 10228 | 0.394 | ng | | 0.00 |
| 27) Fluoranthene-d10 | 19.271 | 212 | 10530 | 0.372 | ng | | 0.00 |
| 31) Terphenyl-d14 | 19.870 | 244 | 7507 | 0.395 | ng | | 0.00 |
| Target Compounds | | | | | | | Qvalue |
| 2) 1,4-Dioxane | 3.304 | 88 | 2106 | 0.405 | ng | | 100 |
| 3) n-Nitrosodimethylamine | 3.608 | 42 | 2814 | 0.414 | ng | | 99 |
| 6) bis(2-Chloroethyl)ether | 7.255 | 93 | 5343 | 0.402 | ng | | 100 |
| 9) Naphthalene | 10.690 | 128 | 14229 | 0.393 | ng | | 100 |
| 10) Hexachlorobutadiene | 11.000 | 225 | 2615 | 0.399 | ng | # | 100 |
| 12) 2-Methylnaphthalene | 12.314 | 142 | 8728 | 0.390 | ng | | 100 |
| 16) Acenaphthylene | 14.206 | 152 | 11064 | 0.389 | ng | | 100 |
| 17) Acenaphthene | 14.559 | 154 | 7540 | 0.392 | ng | | 100 |
| 18) Fluorene | 15.535 | 166 | 8938 | 0.384 | ng | | 100 |
| 20) 4,6-Dinitro-2-methylph... | 15.609 | 198 | 372 | 0.357 | ng | | 100 |
| 21) 4-Bromophenyl-phenylether | 16.441 | 248 | 2827 | 0.385 | ng | | 100 |
| 22) Hexachlorobenzene | 16.553 | 284 | 3312 | 0.392 | ng | | 100 |
| 23) Atrazine | 16.702 | 200 | 1707 | 0.365 | ng | | 100 |
| 24) Pentachlorophenol | 16.888 | 266 | 839 | 0.342 | ng | | 100 |
| 25) Phenanthrene | 17.285 | 178 | 13778 | 0.389 | ng | | 100 |
| 26) Anthracene | 17.372 | 178 | 12049 | 0.384 | ng | | 100 |
| 28) Fluoranthene | 19.299 | 202 | 14751 | 0.379 | ng | | 100 |
| 30) Pyrene | 19.661 | 202 | 14587 | 0.398 | ng | | 100 |
| 32) Benzo(a)anthracene | 21.402 | 228 | 12621 | 0.386 | ng | | 100 |
| 33) Chrysene | 21.456 | 228 | 14018 | 0.400 | ng | | 100 |
| 34) Bis(2-ethylhexyl)phtha... | 21.349 | 149 | 3520 | 0.363 | ng | | 100 |
| 36) Indeno(1,2,3-cd)pyrene | 26.142 | 276 | 13835 | 0.367 | ng | | 100 |
| 37) Benzo(b)fluoranthene | 23.046 | 252 | 13935 | 0.395 | ng | | 100 |
| 38) Benzo(k)fluoranthene | 23.092 | 252 | 13659 | 0.379 | ng | | 100 |
| 39) Benzo(a)pyrene | 23.648 | 252 | 10766 | 0.381 | ng | | 100 |
| 40) Dibenzo(a,h)anthracene | 26.162 | 278 | 10852 | 0.361 | ng | | 100 |
| 41) Benzo(g,h,i)perylene | 26.867 | 276 | 13009 | 0.385 | ng | | 100 |

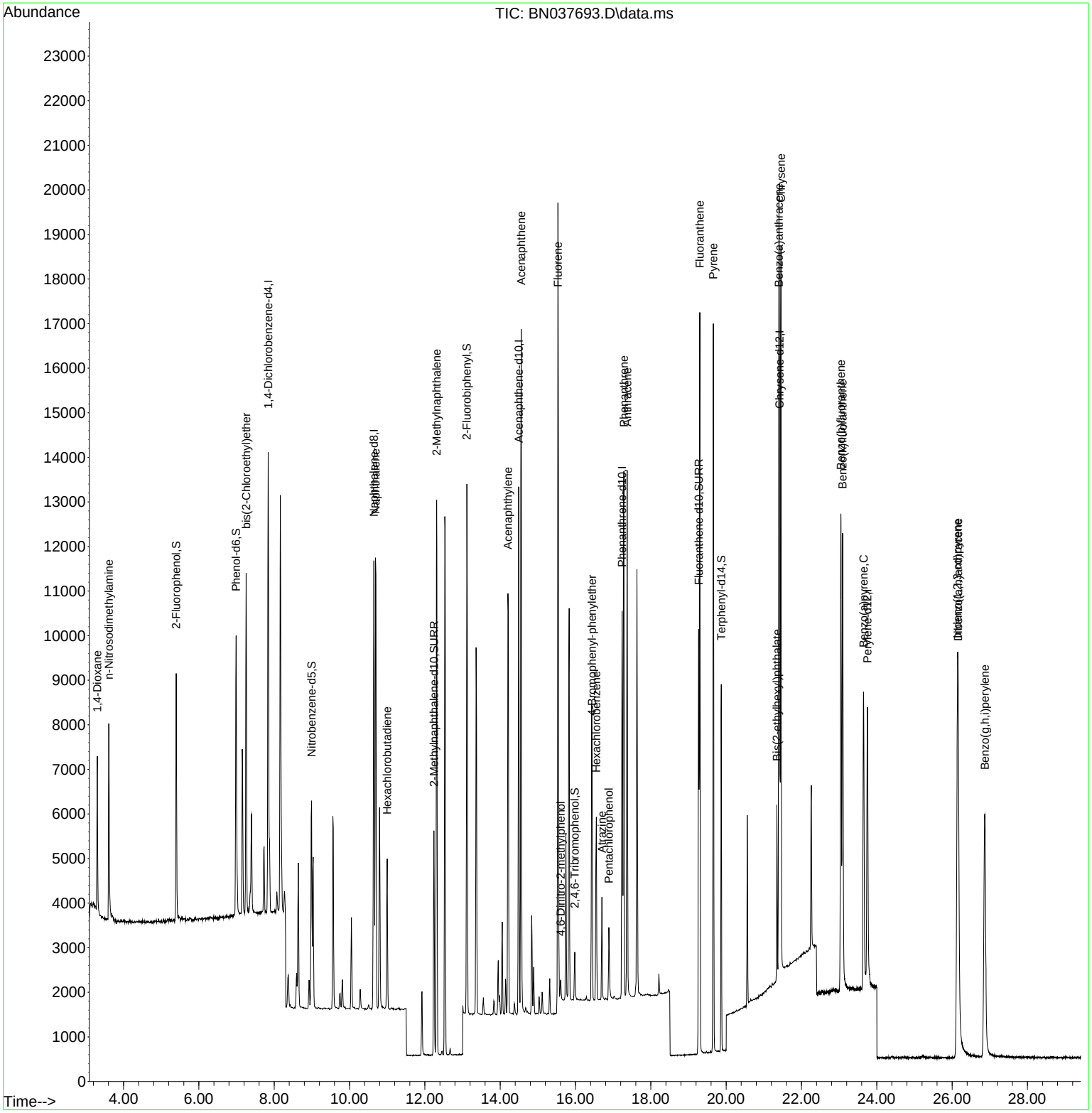
(#) = qualifier out of range (m) = manual integration (+) = signals summed

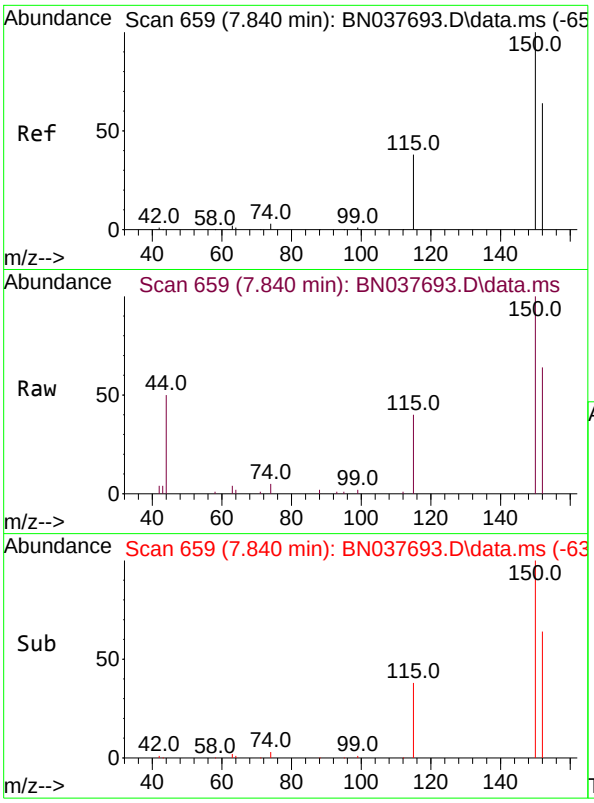
ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN091125\
Data File : BN037693.D
Acq On : 11 Sep 2025 11:08
Operator : RC/JU
Sample : SSTDICCC0.4
Misc :
ALS Vial : 5 Sample Multiplier: 1

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

Quant Time: Sep 11 14:06:04 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN091125.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Sep 11 14:02:44 2025
Response via : Initial Calibration



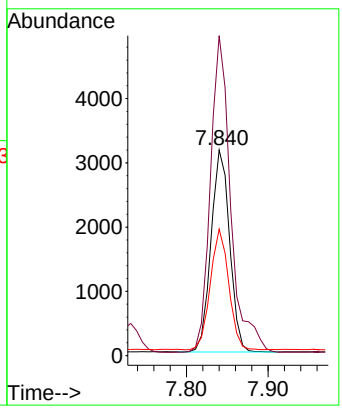


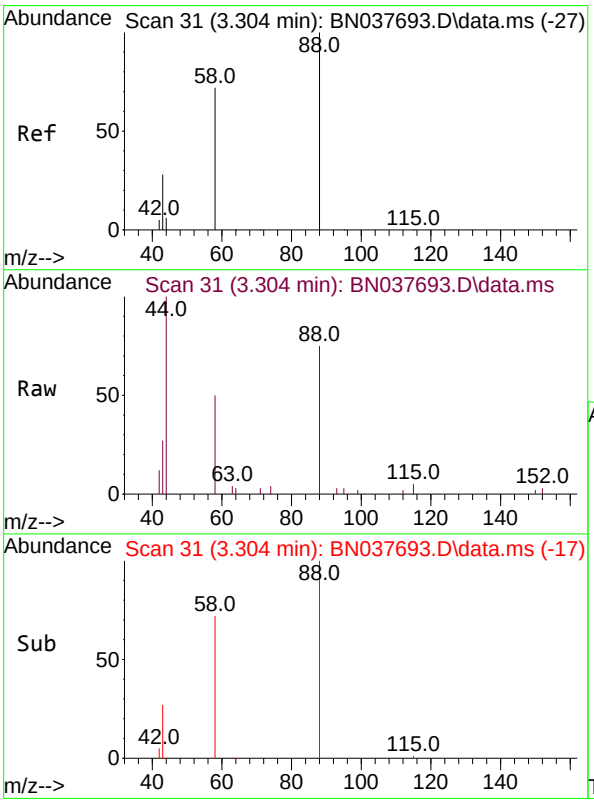

#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.840 min Scan# 6
Delta R.T. 0.000 min
Lab File: BN037693.D
Acq: 11 Sep 2025 11:08

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

Tgt Ion:152 Resp: 4992

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 150 | 155.6 | 124.5 | 186.7 |
| 115 | 61.5 | 49.2 | 73.8 |

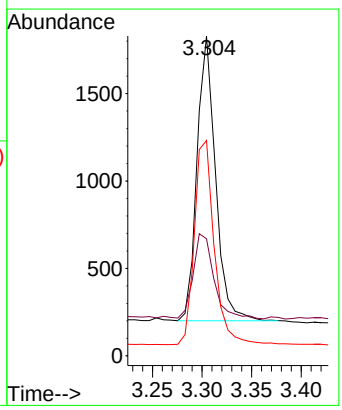


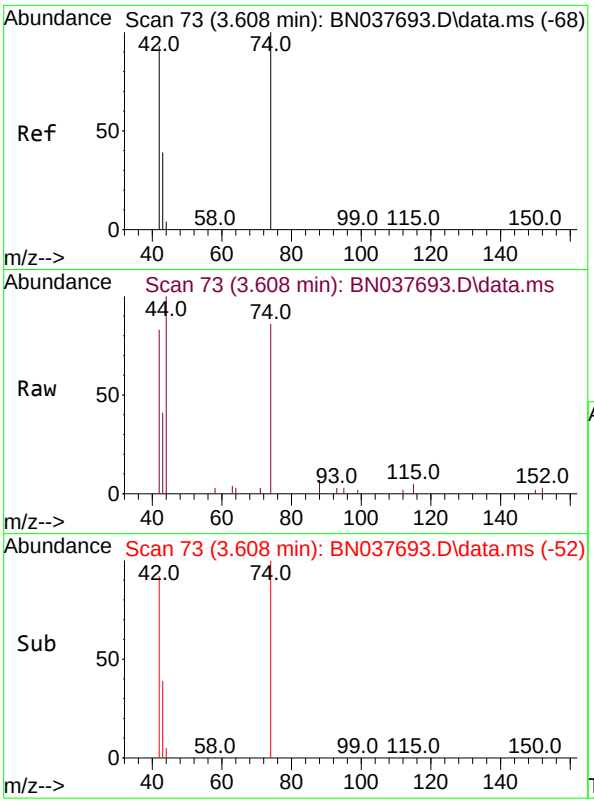




#2
1,4-Dioxane
Concen: 0.405 ng
RT: 3.304 min Scan# 31
Delta R.T. 0.000 min
Lab File: BN037693.D
Acq: 11 Sep 2025 11:08

Tgt Ion: 88 Resp: 2106

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 88 | 100 | | |
| 43 | 33.5 | 26.8 | 40.2 |
| 58 | 77.6 | 61.9 | 92.9 |



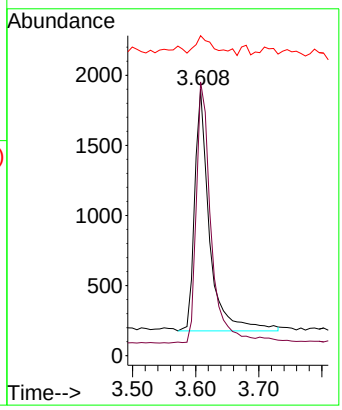


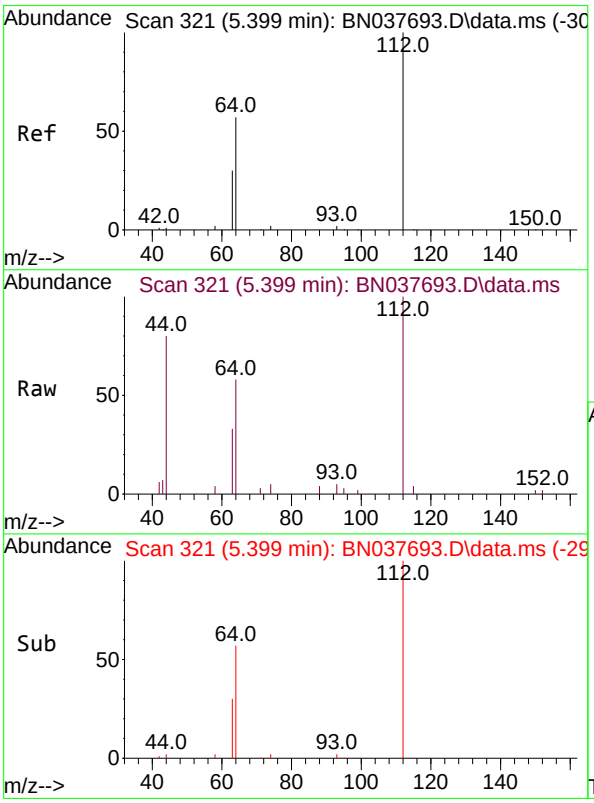

#3
n-Nitrosodimethylamine
Concen: 0.414 ng
RT: 3.608 min Scan# 7
Delta R.T. 0.000 min
Lab File: BN037693.D
Acq: 11 Sep 2025 11:08

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

Tgt Ion: 42 Resp: 2814

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 42 | 100 | | |
| 74 | 106.5 | 86.0 | 129.0 |
| 44 | 10.4 | 8.4 | 12.6 |

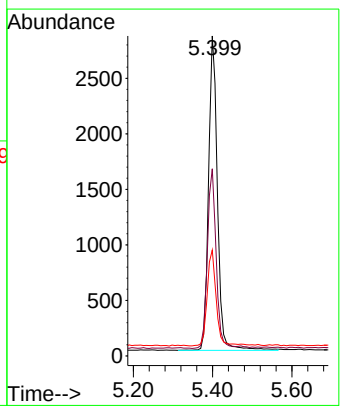


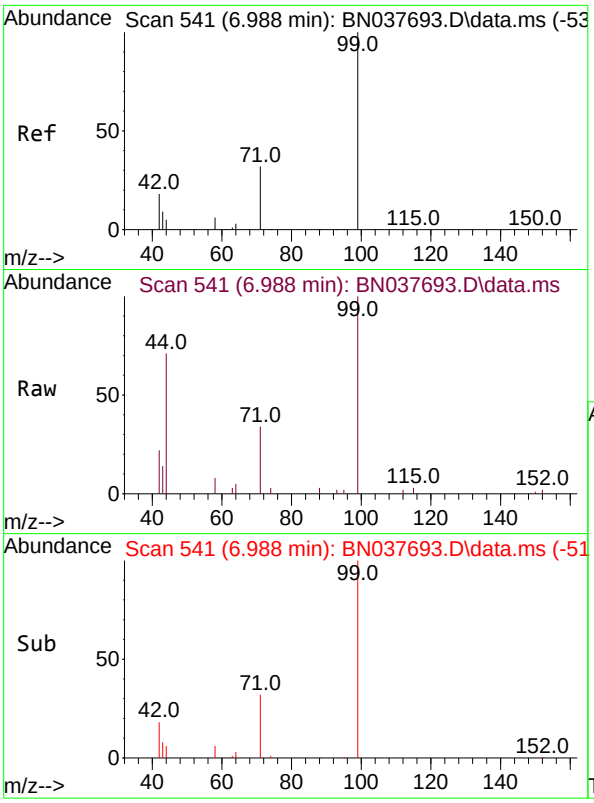




#4
2-Fluorophenol
Concen: 0.388 ng
RT: 5.399 min Scan# 321
Delta R.T. 0.000 min
Lab File: BN037693.D
Acq: 11 Sep 2025 11:08

Tgt Ion:112 Resp: 4452

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 112 | 100 | | |
| 64 | 56.1 | 44.9 | 67.3 |
| 63 | 30.9 | 24.7 | 37.1 |



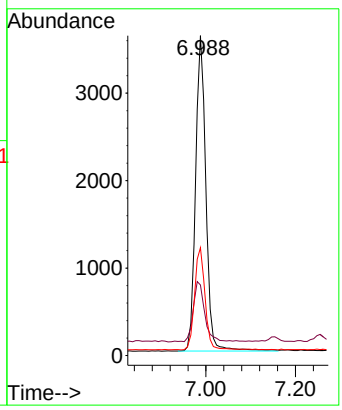


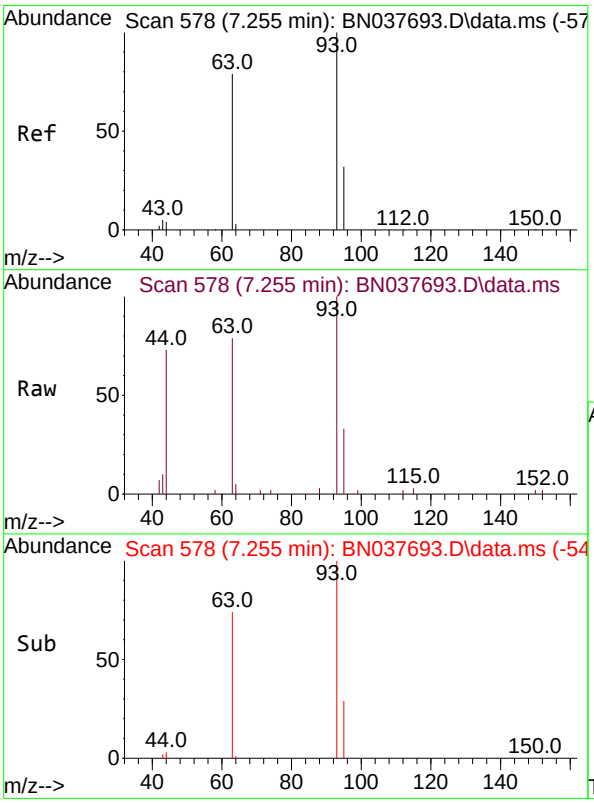

#5
Phenol-d6
Concen: 0.388 ng
RT: 6.988 min Scan# 54
Delta R.T. 0.000 min
Lab File: BN037693.D
Acq: 11 Sep 2025 11:08

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

Tgt Ion: 99 Resp: 5771

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 99 | 100 | | |
| 42 | 20.7 | 16.6 | 24.8 |
| 71 | 33.4 | 26.7 | 40.1 |

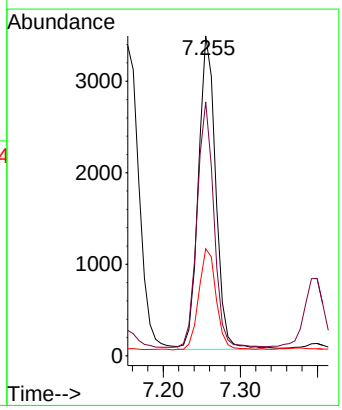


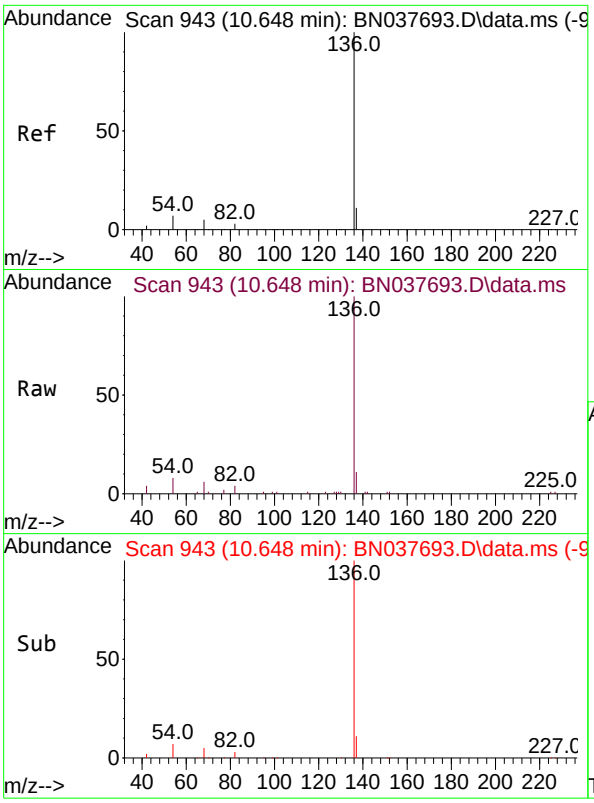




#6
bis(2-Chloroethyl)ether
Concen: 0.402 ng
RT: 7.255 min Scan# 578
Delta R.T. 0.000 min
Lab File: BN037693.D
Acq: 11 Sep 2025 11:08

Tgt Ion: 93 Resp: 5343

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 93 | 100 | | |
| 63 | 75.7 | 60.6 | 90.8 |
| 95 | 32.5 | 26.0 | 39.0 |



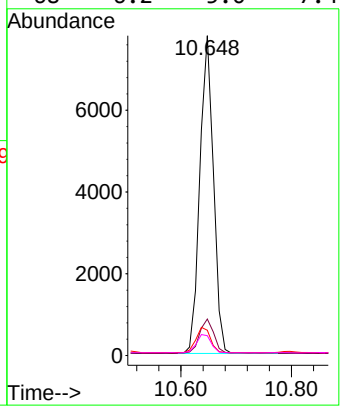


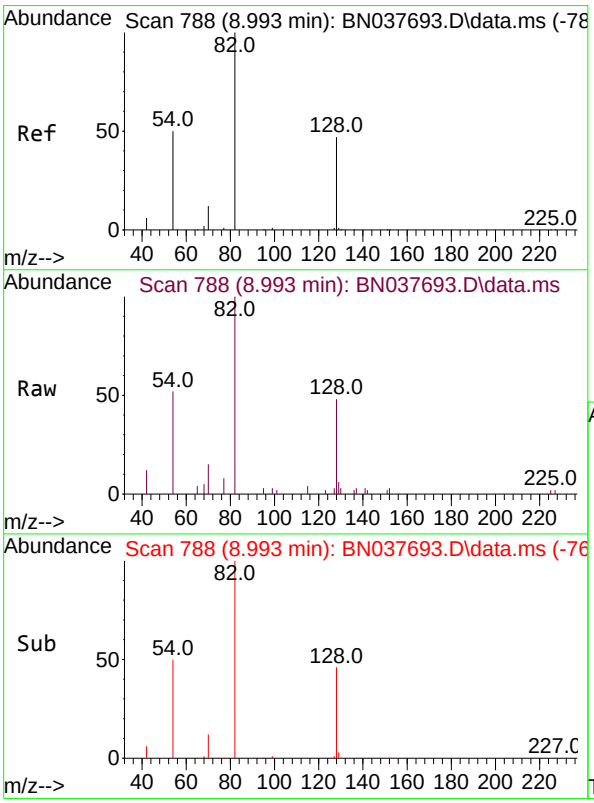

#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.648 min Scan# 94
Delta R.T. 0.000 min
Lab File: BN037693.D
Acq: 11 Sep 2025 11:08

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

Tgt Ion:136 Resp: 13249

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 136 | 100 | | |
| 137 | 11.4 | 9.1 | 13.7 |
| 54 | 7.9 | 6.3 | 9.5 |
| 68 | 6.2 | 5.0 | 7.4 |

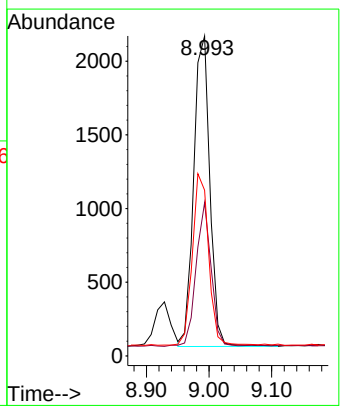


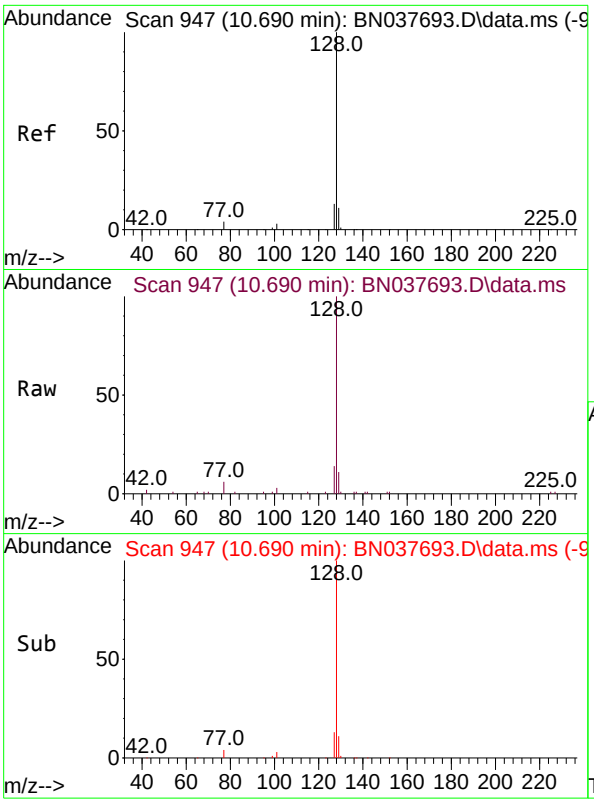




#8
Nitrobenzene-d5
Concen: 0.389 ng
RT: 8.993 min Scan# 788
Delta R.T. 0.000 min
Lab File: BN037693.D
Acq: 11 Sep 2025 11:08

Tgt Ion: 82 Resp: 3770

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 82 | 100 | | |
| 128 | 47.9 | 38.3 | 57.5 |
| 54 | 51.8 | 41.4 | 62.2 |



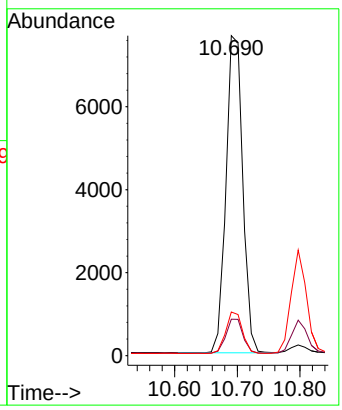


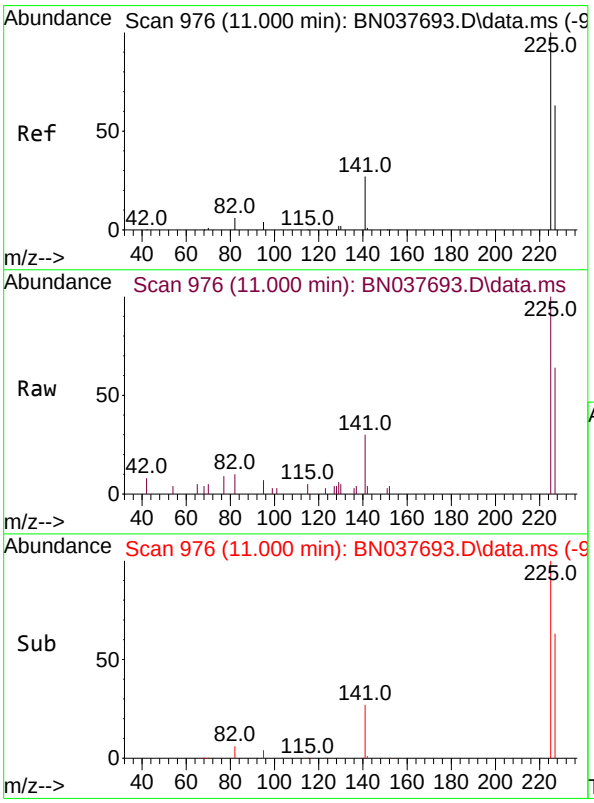

#9
Naphthalene
Concen: 0.393 ng
RT: 10.690 min Scan# 94
Delta R.T. 0.000 min
Lab File: BN037693.D
Acq: 11 Sep 2025 11:08

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

Tgt Ion:128 Resp: 14229

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 128 | 100 | | |
| 129 | 11.4 | 9.1 | 13.7 |
| 127 | 13.6 | 10.9 | 16.3 |

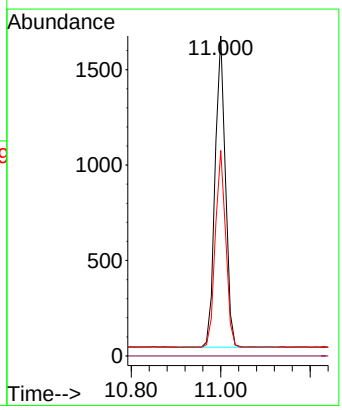


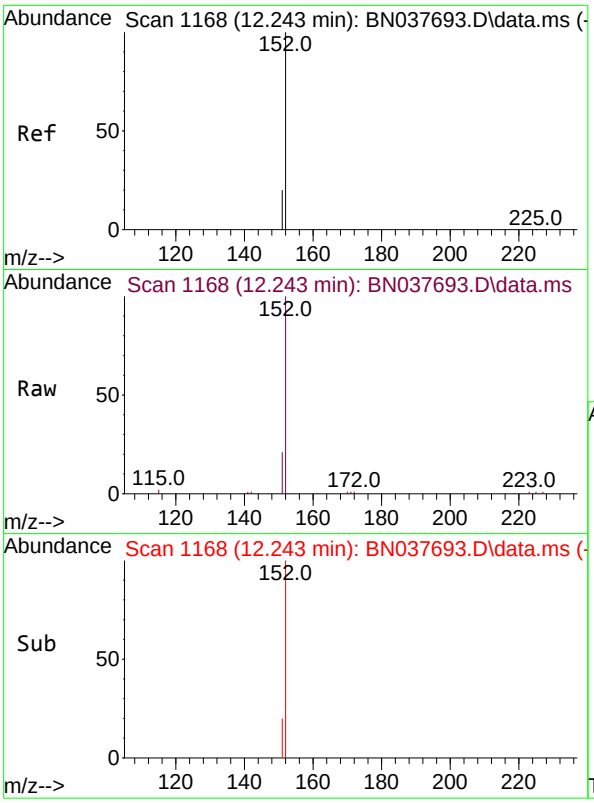




#10
Hexachlorobutadiene
Concen: 0.399 ng
RT: 11.000 min Scan# 976
Delta R.T. 0.000 min
Lab File: BN037693.D
Acq: 11 Sep 2025 11:08

Tgt Ion:225 Resp: 2615

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 225 | 100 | | |
| 223 | 0.0 | 0.0 | 0.0 |
| 227 | 63.6 | 50.9 | 76.3 |



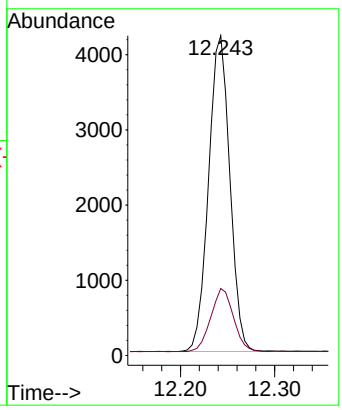


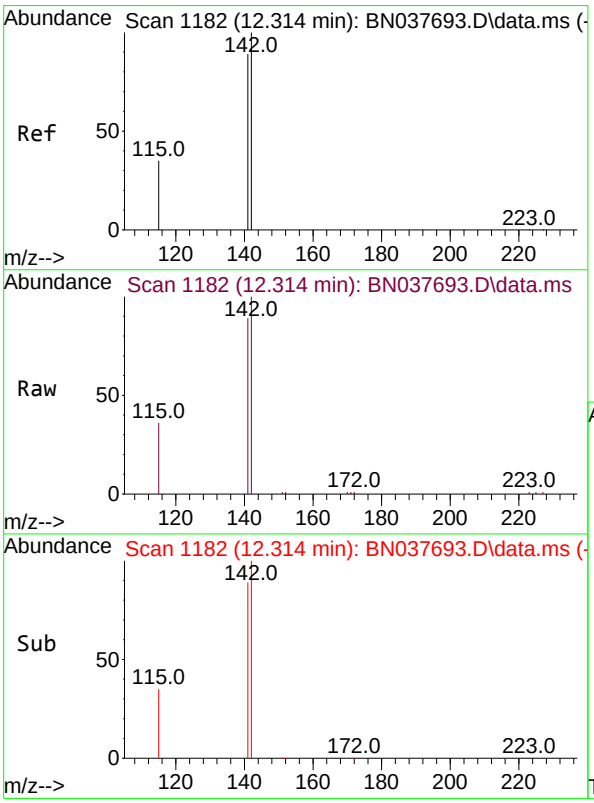

#11
2-Methylnaphthalene-d10
Concen: 0.376 ng
RT: 12.243 min Scan# 11
Delta R.T. 0.000 min
Lab File: BN037693.D
Acq: 11 Sep 2025 11:08

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

Tgt Ion:152 Resp: 6602

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

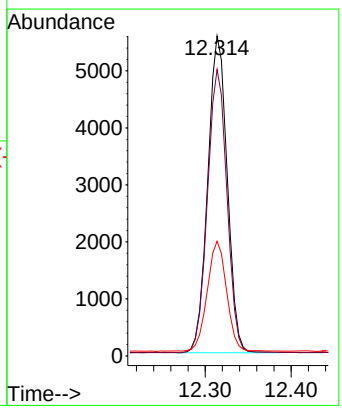


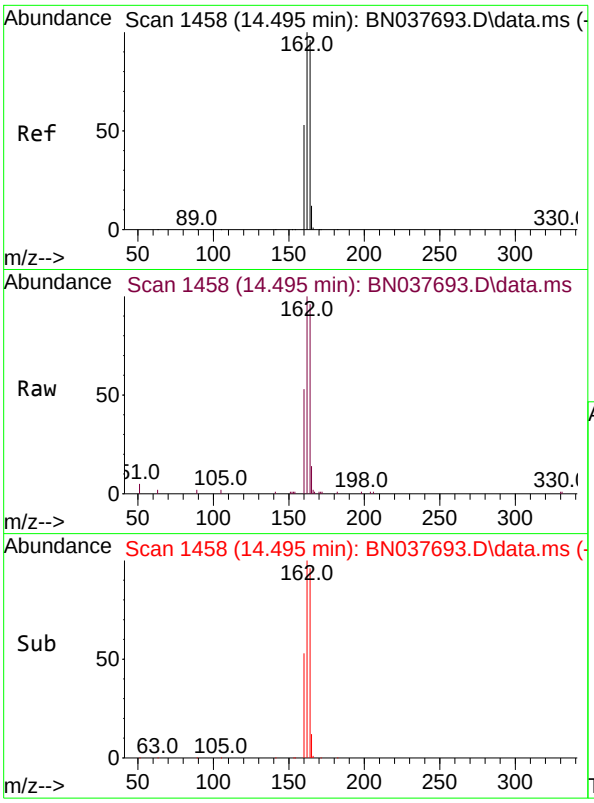




#12
2-Methylnaphthalene
Concen: 0.390 ng
RT: 12.314 min Scan# 1182
Delta R.T. 0.000 min
Lab File: BN037693.D
Acq: 11 Sep 2025 11:08

Tgt Ion:142 Resp: 8728

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 142 | 100 | | |
| 141 | 89.5 | 71.6 | 107.4 |
| 115 | 35.8 | 28.6 | 43.0 |



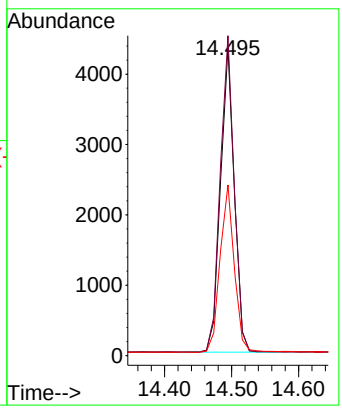


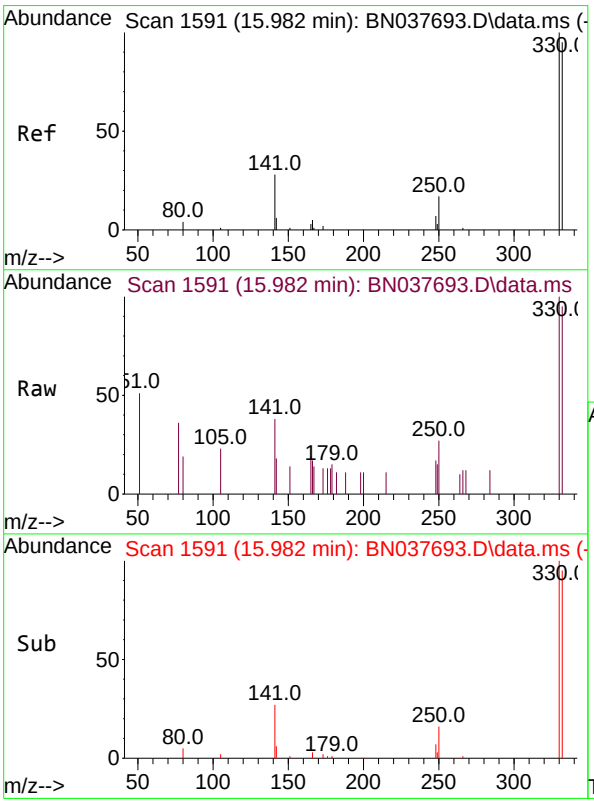

#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.495 min Scan# 14
Delta R.T. 0.000 min
Lab File: BN037693.D
Acq: 11 Sep 2025 11:08

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

Tgt Ion:164 Resp: 6204

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 164 | 100 | | |
| 162 | 103.9 | 83.1 | 124.7 |
| 160 | 55.4 | 44.3 | 66.5 |

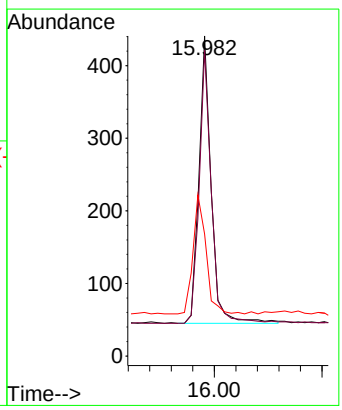


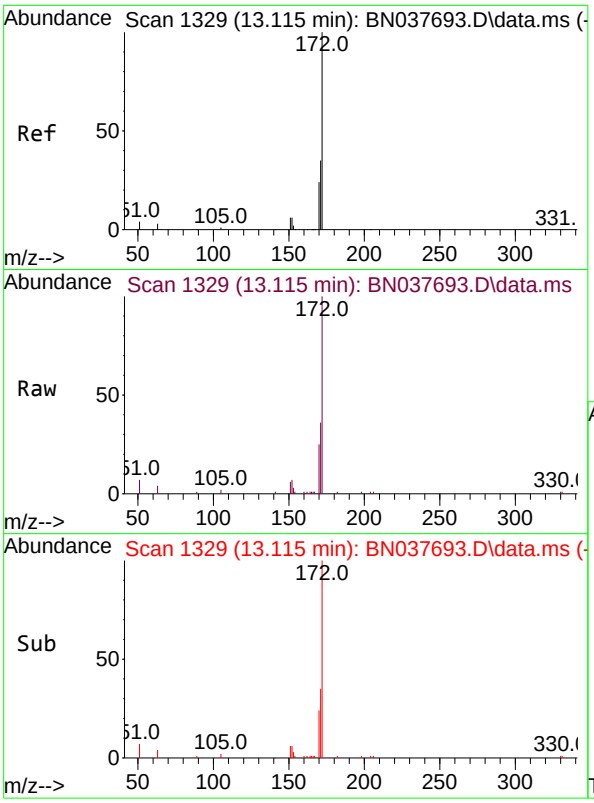




#14
2,4,6-Tribromophenol
Concen: 0.386 ng
RT: 15.982 min Scan# 1591
Delta R.T. -0.000 min
Lab File: BN037693.D
Acq: 11 Sep 2025 11:08

Tgt Ion:330 Resp: 625

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 330 | 100 | | |
| 332 | 94.1 | 75.3 | 112.9 |
| 141 | 43.7 | 35.0 | 52.4 |



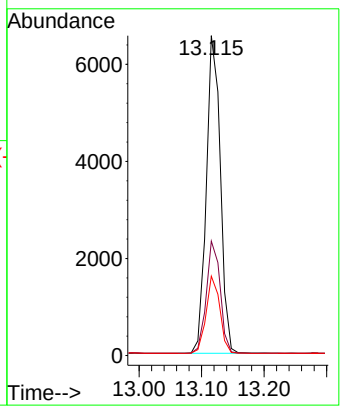


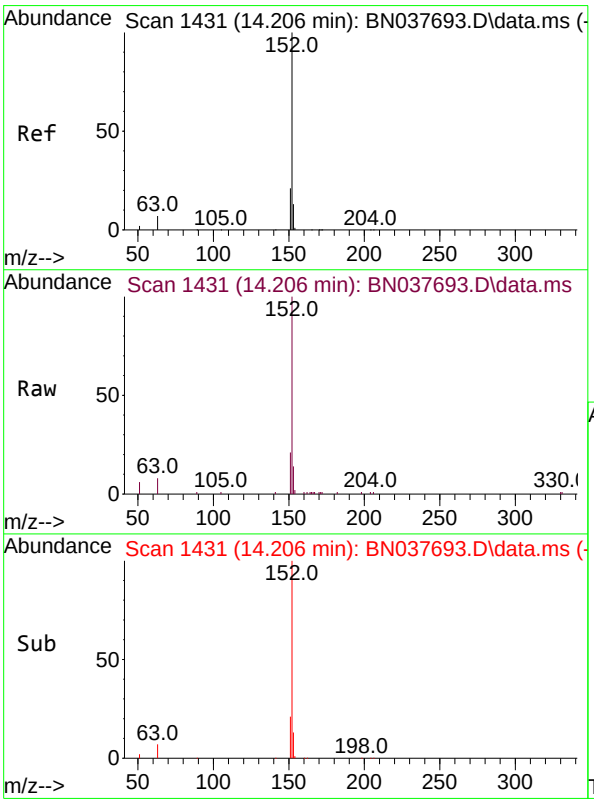

#15
2-Fluorobiphenyl
Concen: 0.394 ng
RT: 13.115 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN037693.D
Acq: 11 Sep 2025 11:08

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

Tgt Ion:172 Resp: 10228

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 172 | 100 | | |
| 171 | 35.8 | 28.6 | 43.0 |
| 170 | 24.8 | 19.8 | 29.8 |

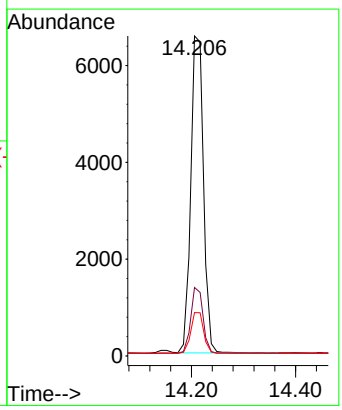


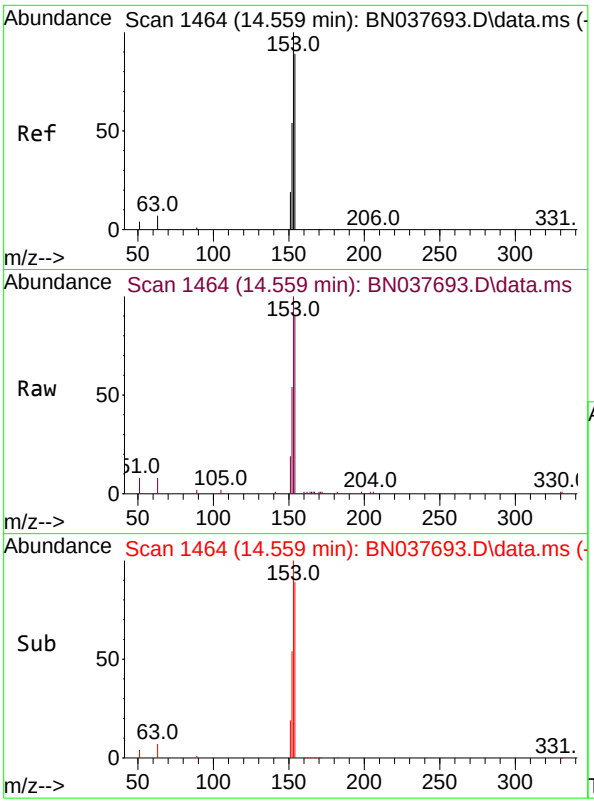




#16
Acenaphthylene
Concen: 0.389 ng
RT: 14.206 min Scan# 1431
Delta R.T. 0.000 min
Lab File: BN037693.D
Acq: 11 Sep 2025 11:08

Tgt Ion:152 Resp: 11064

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 151 | 20.2 | 16.2 | 24.2 |
| 153 | 13.0 | 10.4 | 15.6 |



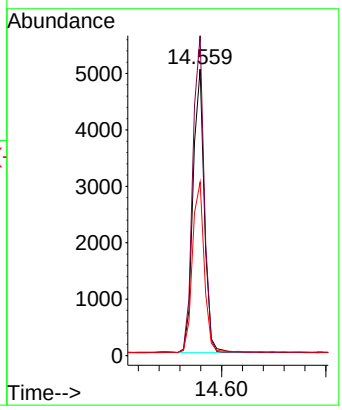


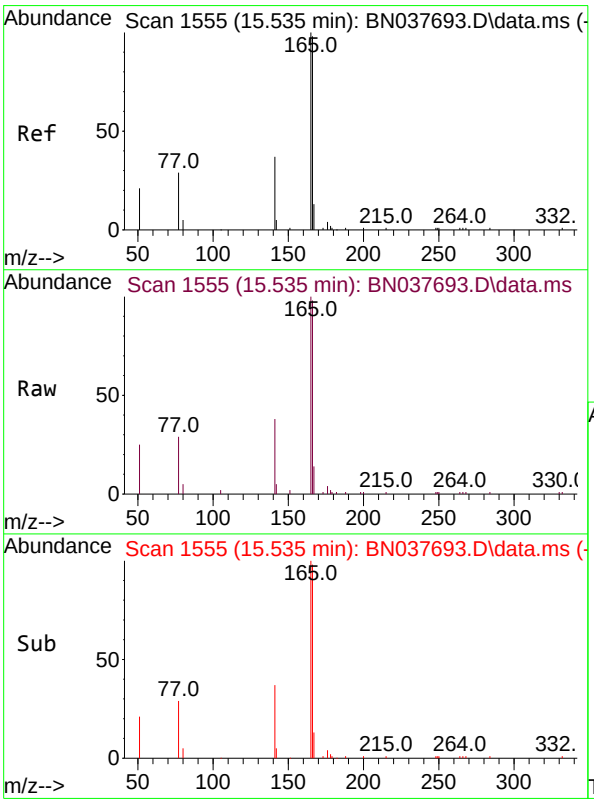

#17
Acenaphthene
Concen: 0.392 ng
RT: 14.559 min Scan# 14
Delta R.T. 0.000 min
Lab File: BN037693.D
Acq: 11 Sep 2025 11:08

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

Tgt Ion:154 Resp: 7540

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 154 | 100 | | |
| 153 | 112.3 | 89.8 | 134.8 |
| 152 | 62.7 | 50.2 | 75.2 |

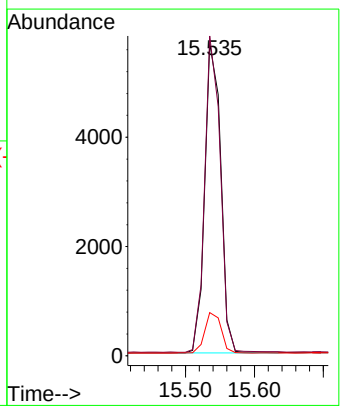


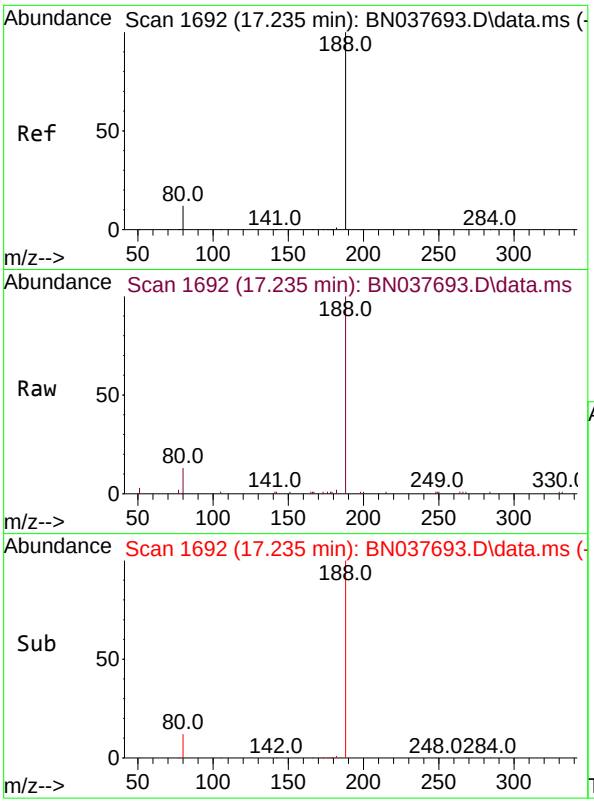




#18
Fluorene
Concen: 0.384 ng
RT: 15.535 min Scan# 1555
Delta R.T. 0.000 min
Lab File: BN037693.D
Acq: 11 Sep 2025 11:08

Tgt Ion:166 Resp: 8938

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 166 | 100 | | |
| 165 | 99.5 | 79.6 | 119.4 |
| 167 | 13.3 | 10.6 | 16.0 |



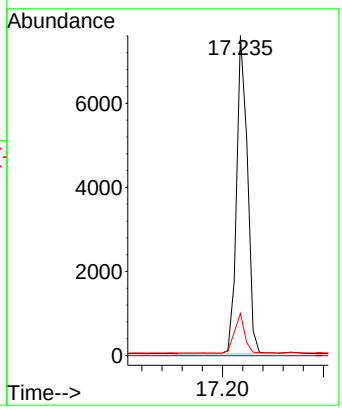


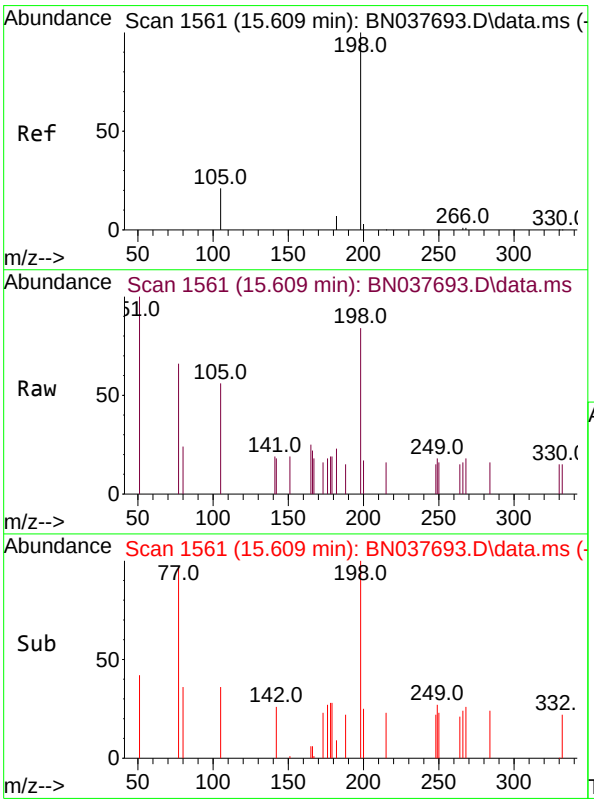

#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.235 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN037693.D
Acq: 11 Sep 2025 11:08

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

Tgt Ion:188 Resp: 11263

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 188 | 100 | | |
| 94 | 0.0 | 0.0 | 0.0 |
| 80 | 13.2 | 10.6 | 15.8 |

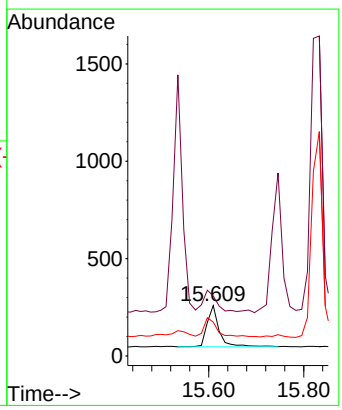


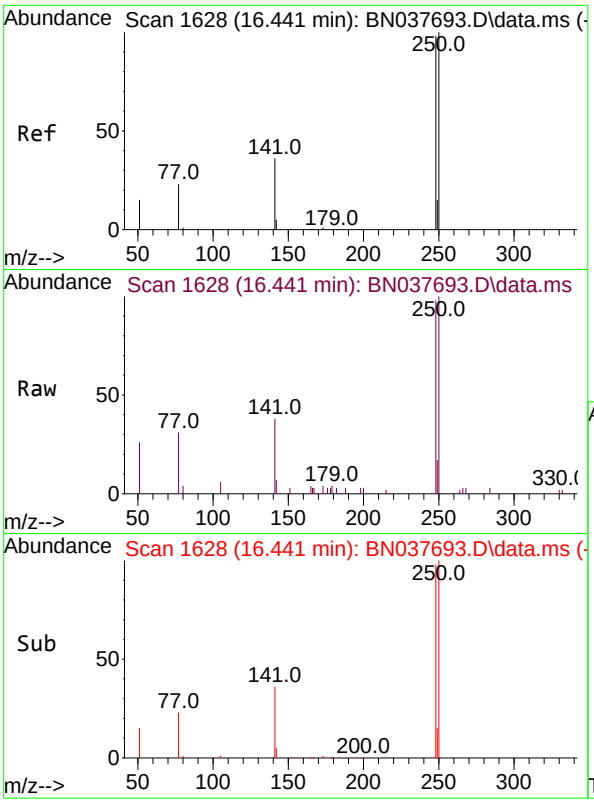




#20
4,6-Dinitro-2-methylphenol
Concen: 0.357 ng
RT: 15.609 min Scan# 1561
Delta R.T. 0.000 min
Lab File: BN037693.D
Acq: 11 Sep 2025 11:08

Tgt Ion:198 Resp: 372

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 198 | 100 | | |
| 51 | 118.9 | 95.1 | 142.7 |
| 105 | 67.2 | 53.8 | 80.6 |



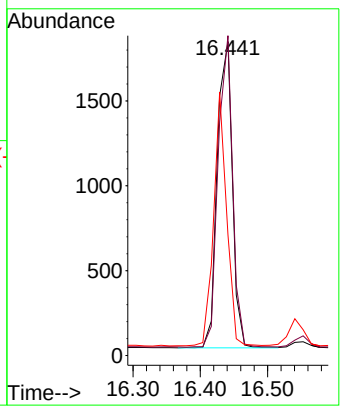


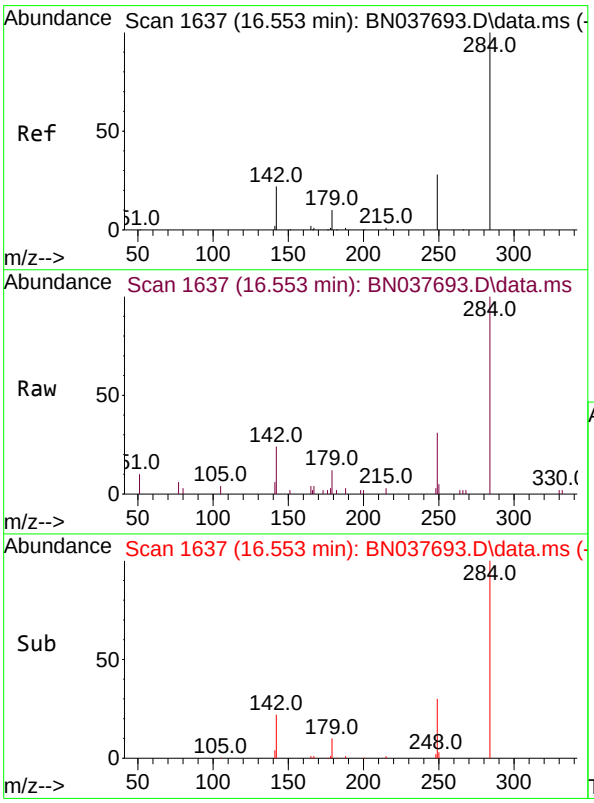

#21
4-Bromophenyl-phenylether
Concen: 0.385 ng
RT: 16.441 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN037693.D
Acq: 11 Sep 2025 11:08

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

Tgt Ion:248 Resp: 2827

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 248 | 100 | | |
| 250 | 101.9 | 81.5 | 122.3 |
| 141 | 38.5 | 30.8 | 46.2 |

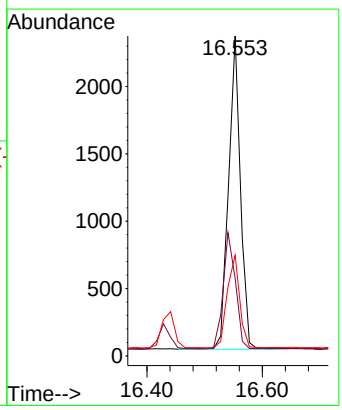


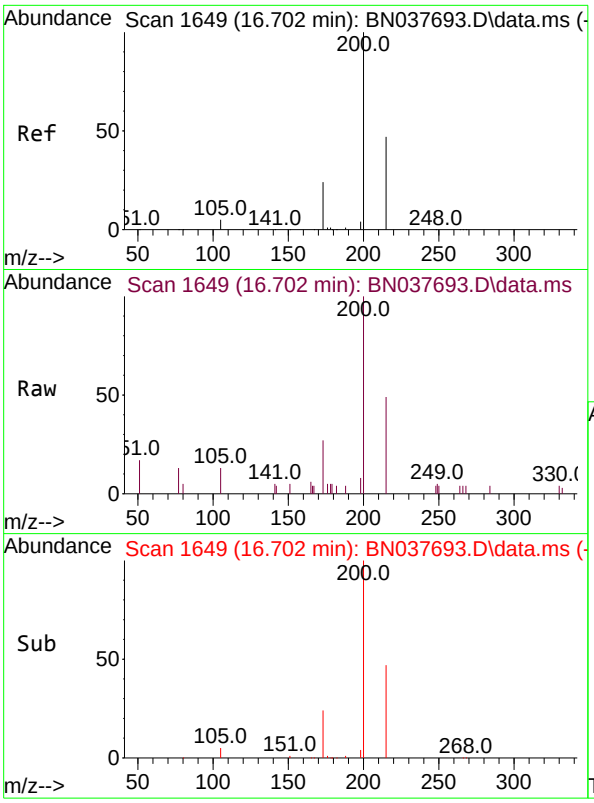




#22
Hexachlorobenzene
Concen: 0.392 ng
RT: 16.553 min Scan# 1637
Delta R.T. 0.000 min
Lab File: BN037693.D
Acq: 11 Sep 2025 11:08

Tgt Ion:284 Resp: 3312

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 284 | 100 | | |
| 142 | 38.6 | 30.9 | 46.3 |
| 249 | 31.0 | 24.8 | 37.2 |



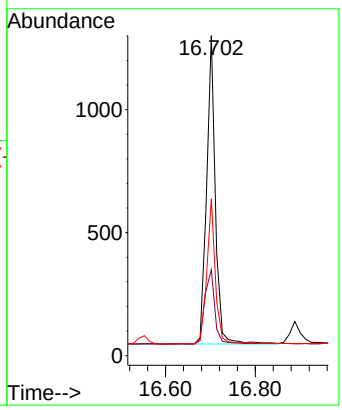


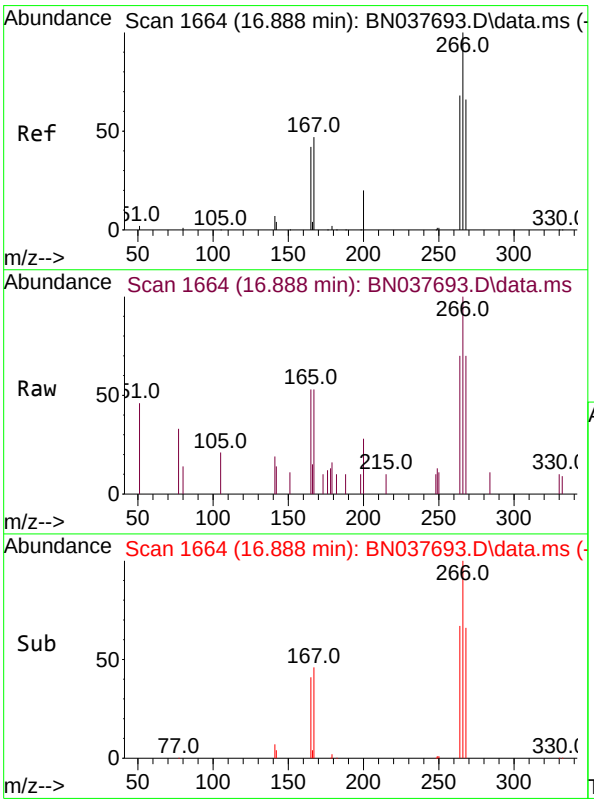

#23
Atrazine
Concen: 0.365 ng
RT: 16.702 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN037693.D
Acq: 11 Sep 2025 11:08

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

Tgt Ion:200 Resp: 1707

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 200 | 100 | | |
| 173 | 26.8 | 21.4 | 32.2 |
| 215 | 49.0 | 39.2 | 58.8 |

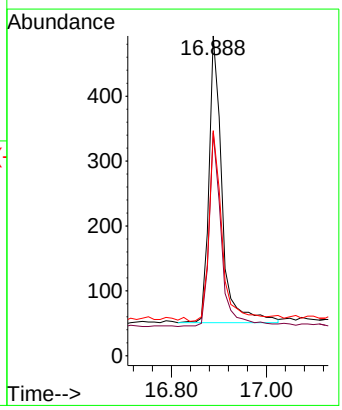


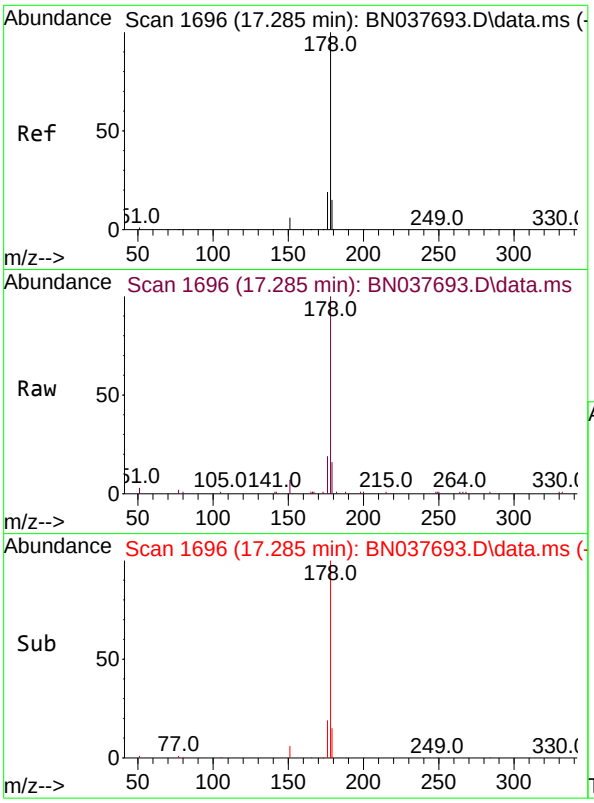




#24
Pentachlorophenol
Concen: 0.342 ng
RT: 16.888 min Scan# 1664
Delta R.T. 0.000 min
Lab File: BN037693.D
Acq: 11 Sep 2025 11:08

Tgt Ion:266 Resp: 839

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 266 | 100 | | |
| 264 | 64.5 | 51.6 | 77.4 |
| 268 | 66.5 | 53.2 | 79.8 |



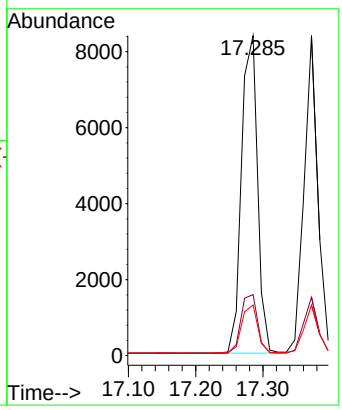


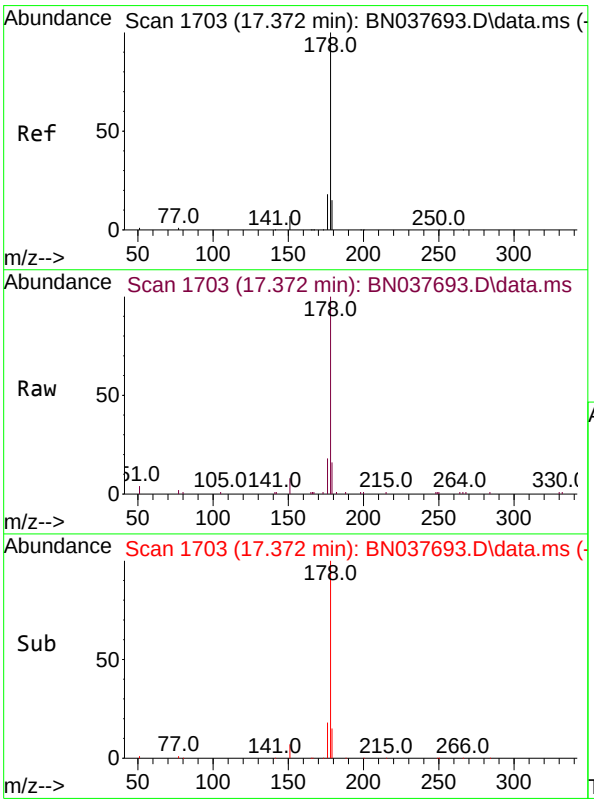

#25
Phenanthrene
Concen: 0.389 ng
RT: 17.285 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN037693.D
Acq: 11 Sep 2025 11:08

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

Tgt Ion:178 Resp: 13778

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 178 | 100 | | |
| 176 | 19.1 | 15.3 | 22.9 |
| 179 | 15.2 | 12.2 | 18.2 |

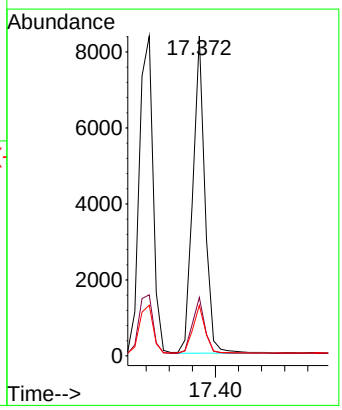


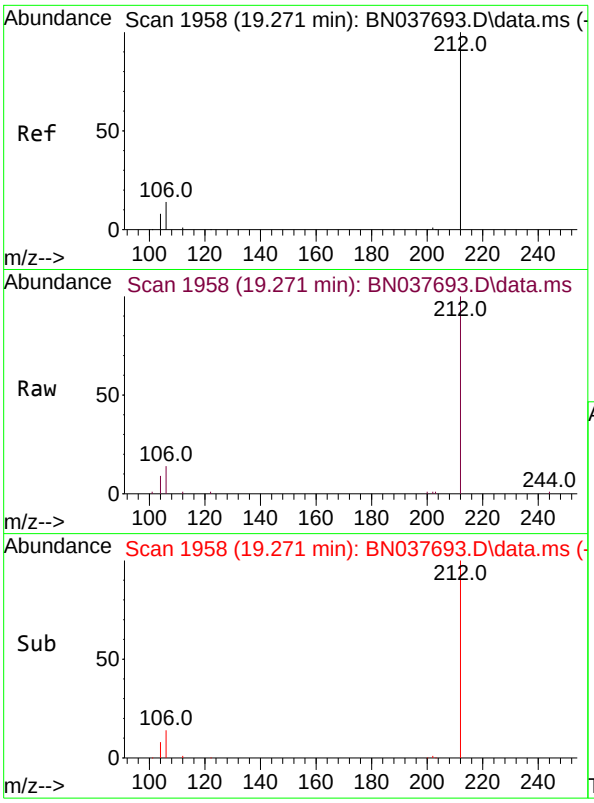




#26
Anthracene
Concen: 0.384 ng
RT: 17.372 min Scan# 1703
Delta R.T. 0.000 min
Lab File: BN037693.D
Acq: 11 Sep 2025 11:08

Tgt Ion:178 Resp: 12049

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 178 | 100 | | |
| 176 | 18.2 | 14.6 | 22.0 |
| 179 | 15.3 | 12.2 | 18.4 |



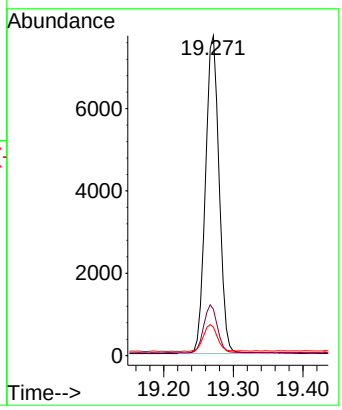


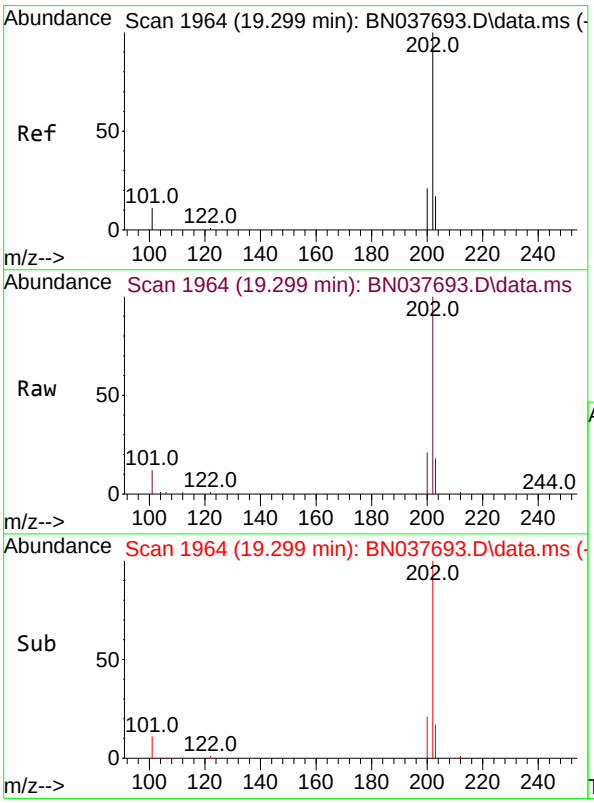

#27
Fluoranthene-d10
Concen: 0.372 ng
RT: 19.271 min Scan# 19
Delta R.T. 0.000 min
Lab File: BN037693.D
Acq: 11 Sep 2025 11:08

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

Tgt Ion:212 Resp: 10530

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 212 | 100 | | |
| 106 | 15.2 | 12.2 | 18.2 |
| 104 | 8.6 | 6.9 | 10.3 |

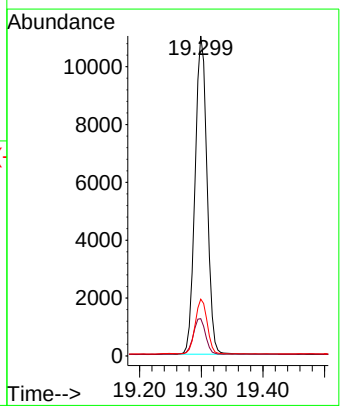


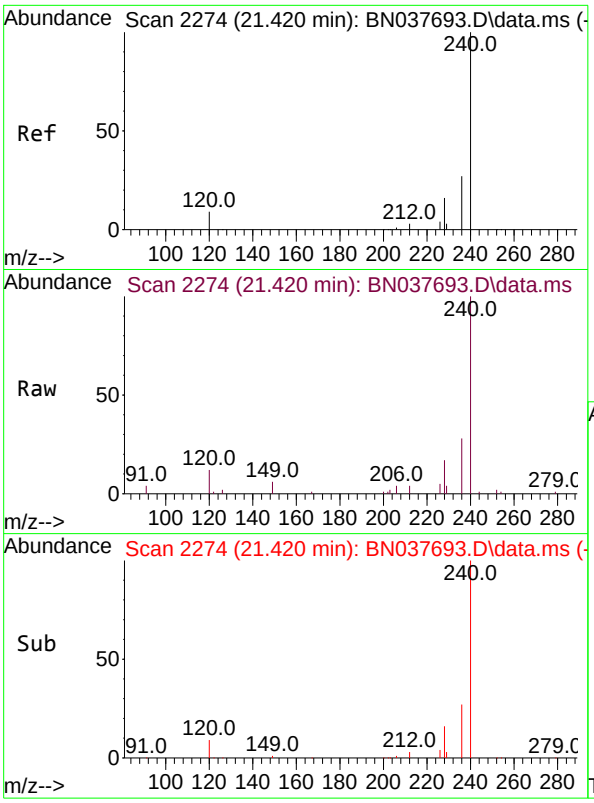




#28
Fluoranthene
Concen: 0.379 ng
RT: 19.299 min Scan# 1964
Delta R.T. 0.000 min
Lab File: BN037693.D
Acq: 11 Sep 2025 11:08

Tgt Ion:202 Resp: 14751

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 202 | 100 | | |
| 101 | 11.6 | 9.3 | 13.9 |
| 203 | 17.1 | 13.7 | 20.5 |



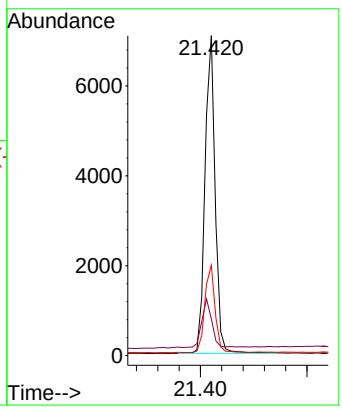


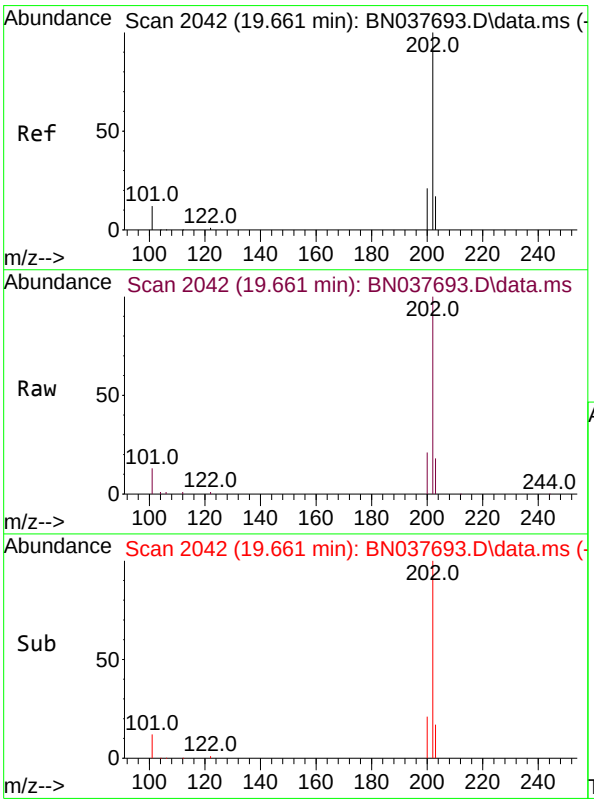

#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.420 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN037693.D
Acq: 11 Sep 2025 11:08

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

Tgt Ion:240 Resp: 9368

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 240 | 100 | | |
| 120 | 11.5 | 9.2 | 13.8 |
| 236 | 28.2 | 22.6 | 33.8 |

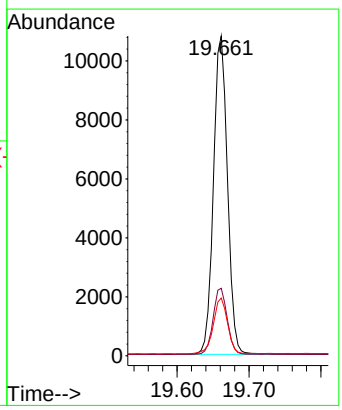


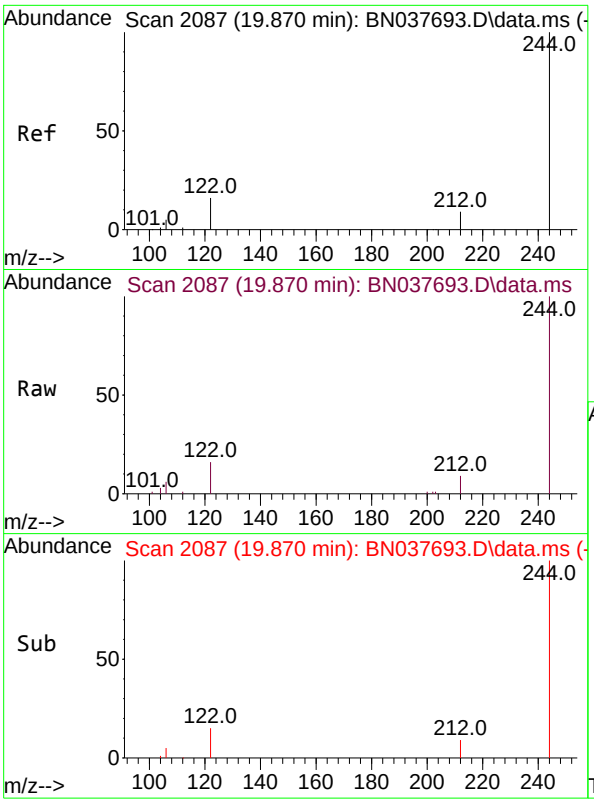




#30
Pyrene
Concen: 0.398 ng
RT: 19.661 min Scan# 2042
Delta R.T. 0.000 min
Lab File: BN037693.D
Acq: 11 Sep 2025 11:08

Tgt Ion:202 Resp: 14587

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 202 | 100 | | |
| 200 | 21.0 | 16.8 | 25.2 |
| 203 | 17.9 | 14.3 | 21.5 |



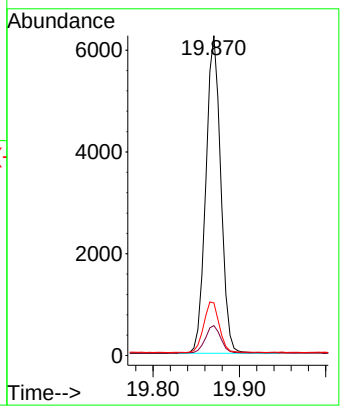


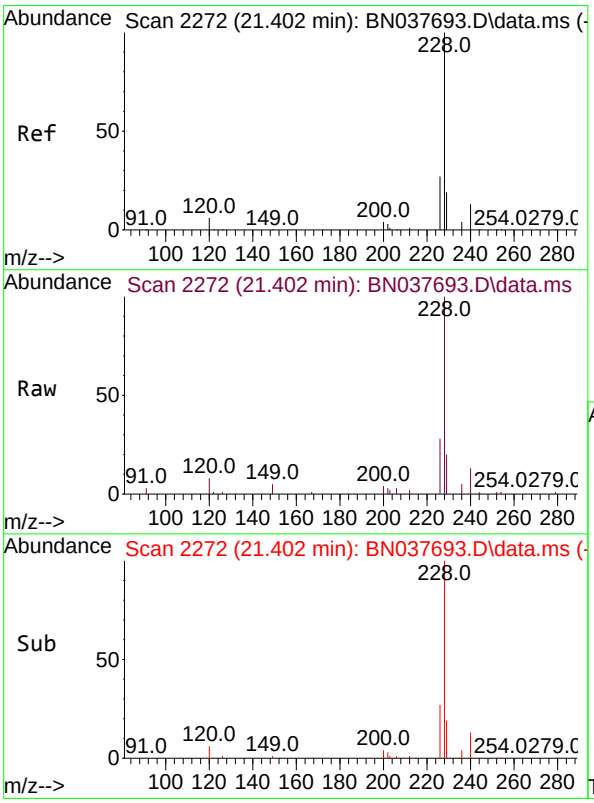

#31
Terphenyl-d14
Concen: 0.395 ng
RT: 19.870 min Scan# 20
Delta R.T. 0.000 min
Lab File: BN037693.D
Acq: 11 Sep 2025 11:08

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

Tgt Ion:244 Resp: 7507

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 244 | 100 | | |
| 212 | 9.4 | 7.5 | 11.3 |
| 122 | 16.5 | 13.2 | 19.8 |

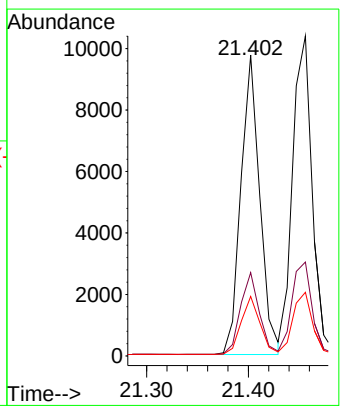


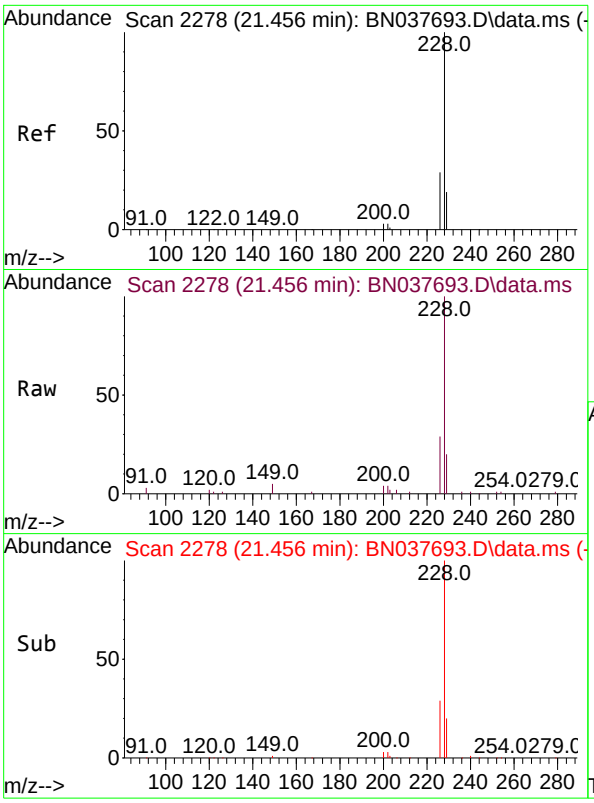




#32
Benzo(a)anthracene
Concen: 0.386 ng
RT: 21.402 min Scan# 2272
Delta R.T. 0.000 min
Lab File: BN037693.D
Acq: 11 Sep 2025 11:08

Tgt Ion:228 Resp: 12621

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 228 | 100 | | |
| 226 | 27.7 | 22.2 | 33.2 |
| 229 | 19.7 | 15.8 | 23.6 |



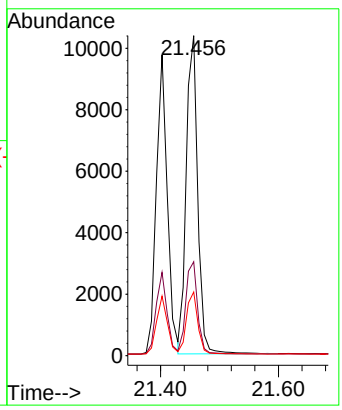


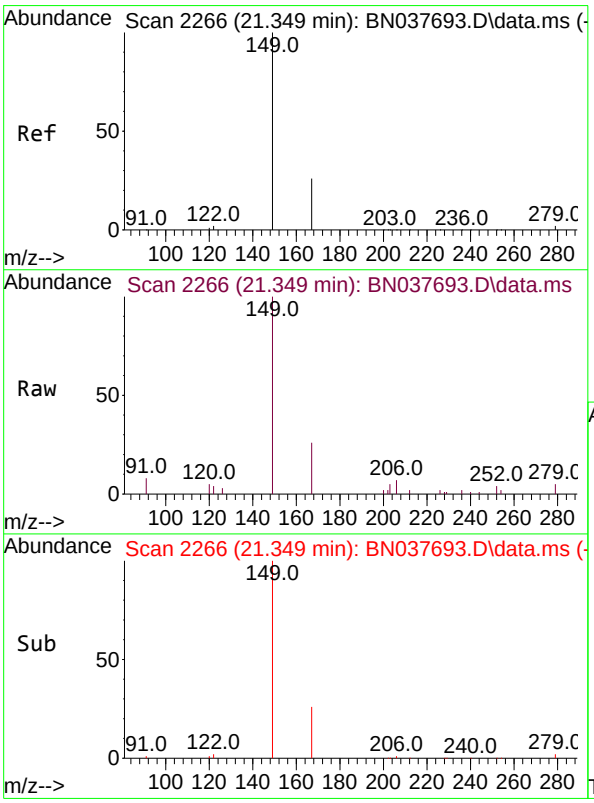

#33
Chrysene
Concen: 0.400 ng
RT: 21.456 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN037693.D
Acq: 11 Sep 2025 11:08

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

Tgt Ion:228 Resp: 14018

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 228 | 100 | | |
| 226 | 29.4 | 23.5 | 35.3 |
| 229 | 19.9 | 15.9 | 23.9 |

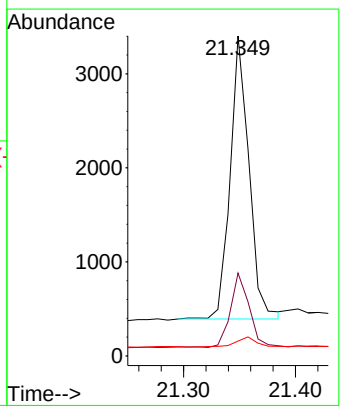


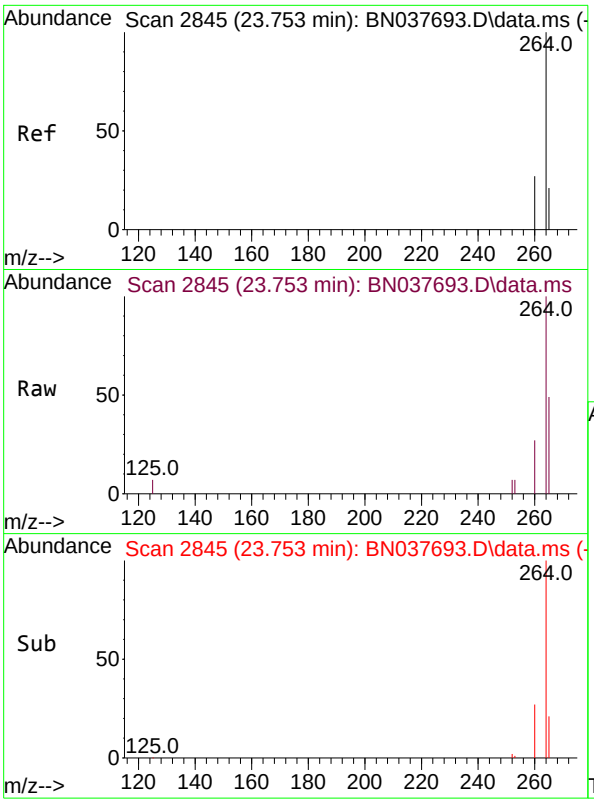




#34
Bis(2-ethylhexyl)phthalate
Concen: 0.363 ng
RT: 21.349 min Scan# 2266
Delta R.T. 0.000 min
Lab File: BN037693.D
Acq: 11 Sep 2025 11:08

Tgt Ion:149 Resp: 3520

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 149 | 100 | | |
| 167 | 25.8 | 20.8 | 31.2 |
| 279 | 4.0 | 3.3 | 4.9 |



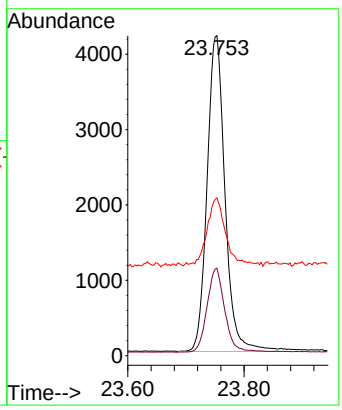


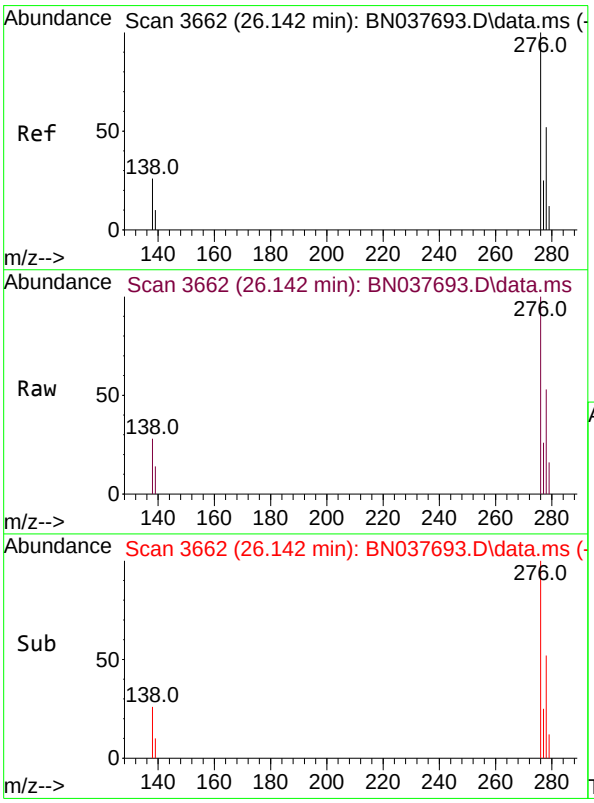

#35
Perylene-d12
Concen: 0.400 ng
RT: 23.753 min Scan# 28
Delta R.T. 0.000 min
Lab File: BN037693.D
Acq: 11 Sep 2025 11:08

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

Tgt Ion:264 Resp: 8965

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 264 | 100 | | |
| 260 | 27.3 | 21.8 | 32.8 |
| 265 | 49.3 | 39.4 | 59.2 |

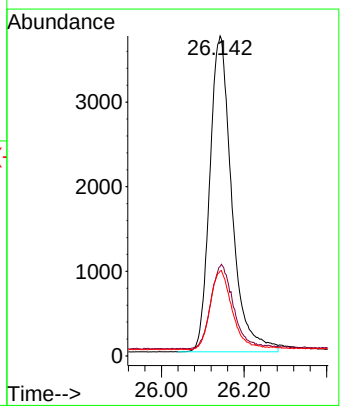


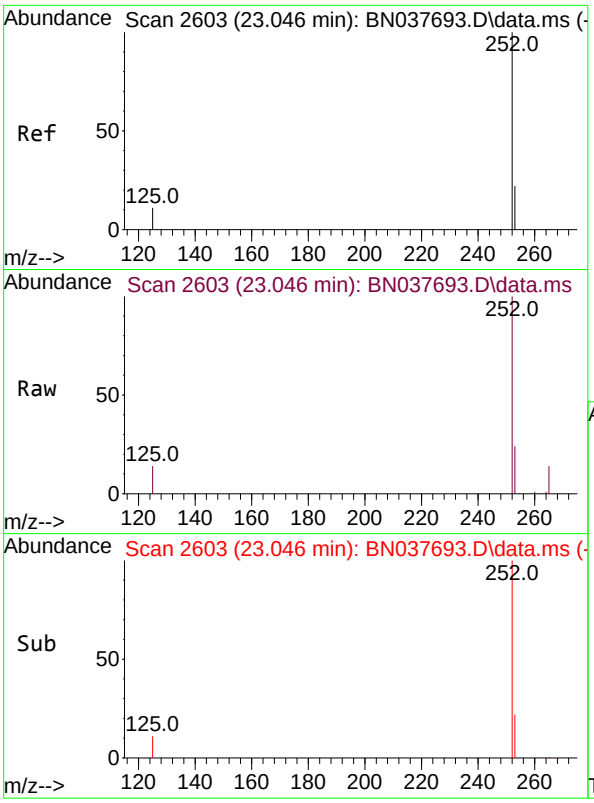




#36
Indeno(1,2,3-cd)pyrene
Concen: 0.367 ng
RT: 26.142 min Scan# 3662
Delta R.T. 0.000 min
Lab File: BN037693.D
Acq: 11 Sep 2025 11:08

Tgt Ion:276 Resp: 13835

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 276 | 100 | | |
| 138 | 27.4 | 21.9 | 32.9 |
| 277 | 25.1 | 20.1 | 30.1 |



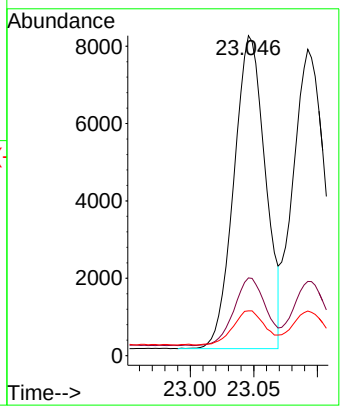


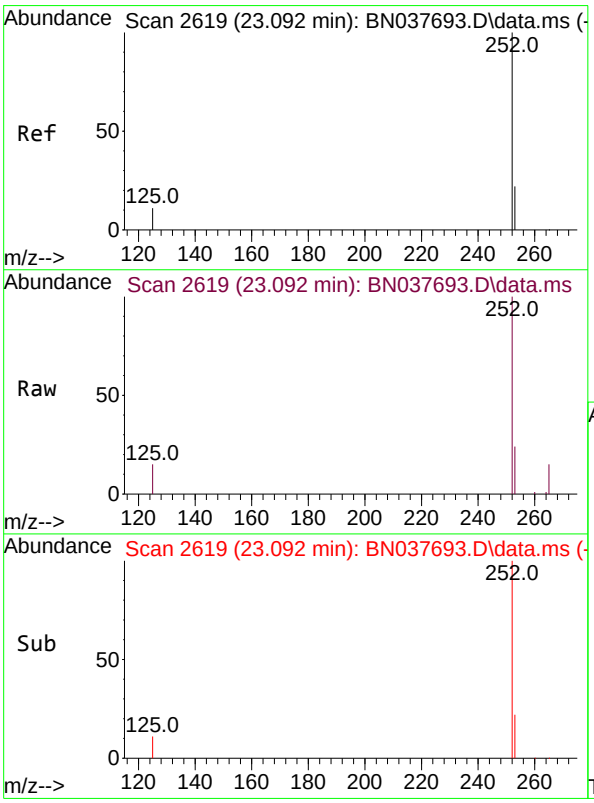

#37
Benzo(b)fluoranthene
Concen: 0.395 ng
RT: 23.046 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN037693.D
Acq: 11 Sep 2025 11:08

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

Tgt Ion:252 Resp: 13935

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 24.3 | 19.4 | 29.2 |
| 125 | 14.0 | 11.2 | 16.8 |

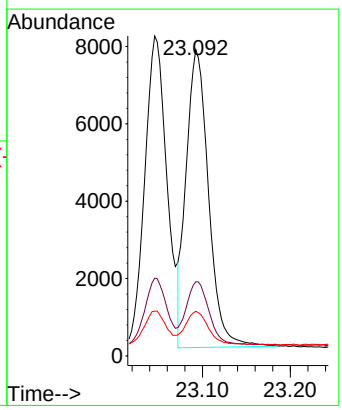


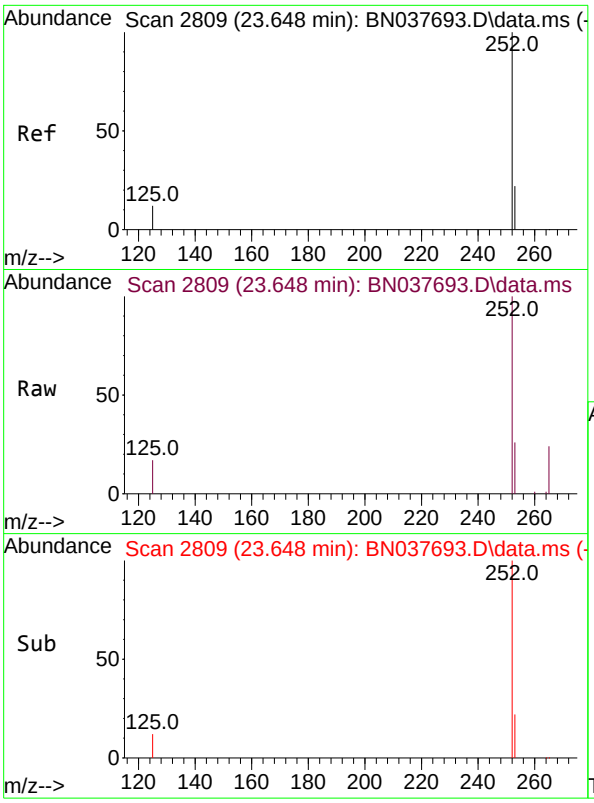




#38
Benzo(k)fluoranthene
Concen: 0.379 ng
RT: 23.092 min Scan# 2619
Delta R.T. 0.000 min
Lab File: BN037693.D
Acq: 11 Sep 2025 11:08

Tgt Ion:252 Resp: 13659

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 24.2 | 19.4 | 29.0 |
| 125 | 14.5 | 11.6 | 17.4 |



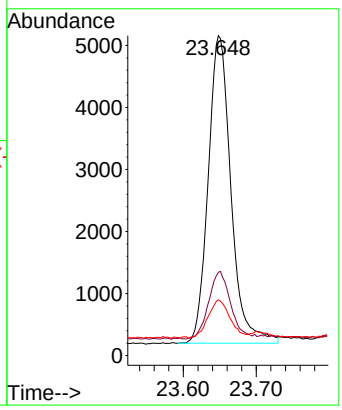


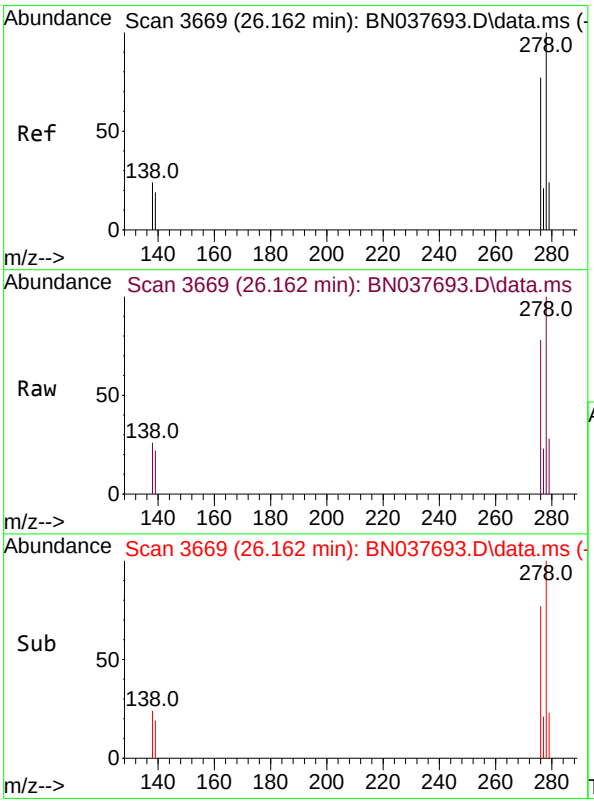

#39
Benzo(a)pyrene
Concen: 0.381 ng
RT: 23.648 min Scan# 28
Delta R.T. 0.000 min
Lab File: BN037693.D
Acq: 11 Sep 2025 11:08

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

Tgt Ion:252 Resp: 10766

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 26.0 | 20.8 | 31.2 |
| 125 | 17.4 | 13.9 | 20.9 |

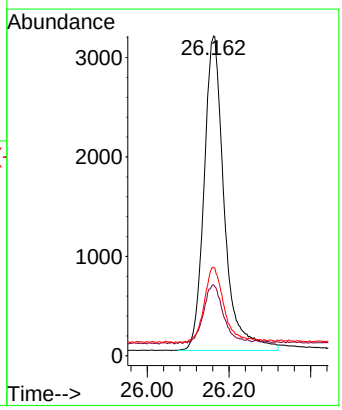


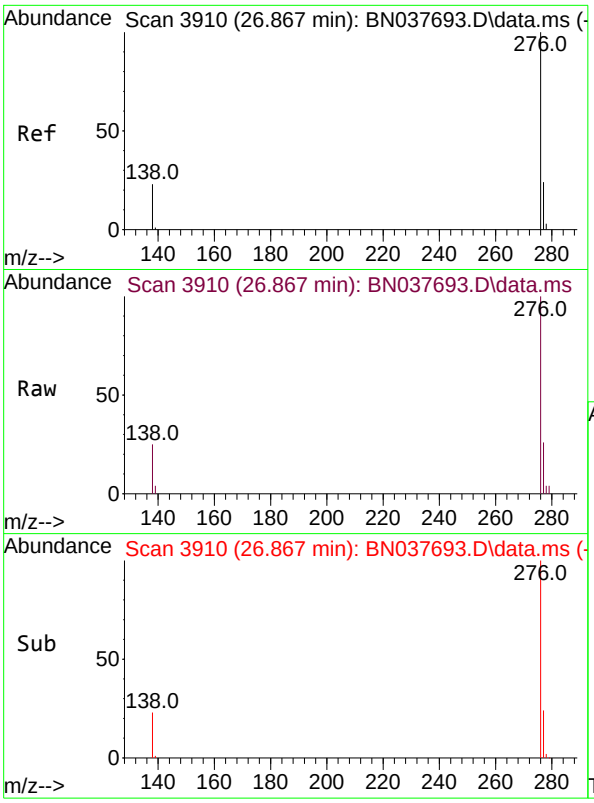




#40
Dibenzo(a,h)anthracene
Concen: 0.361 ng
RT: 26.162 min Scan# 3669
Delta R.T. 0.000 min
Lab File: BN037693.D
Acq: 11 Sep 2025 11:08

Tgt Ion:278 Resp: 10852

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 278 | 100 | | |
| 139 | 22.2 | 17.8 | 26.6 |
| 279 | 27.5 | 22.0 | 33.0 |



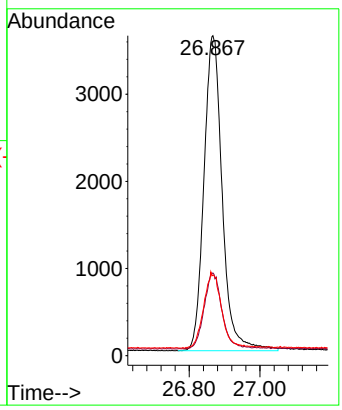



#41
Benzo(g,h,i)perylene
Concen: 0.385 ng
RT: 26.867 min Scan# 3
Delta R.T. 0.000 min
Lab File: BN037693.D
Acq: 11 Sep 2025 11:08

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

Tgt Ion:276 Resp: 13009

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 276 | 100 | | |
| 277 | 25.8 | 20.6 | 31.0 |
| 138 | 25.2 | 20.2 | 30.2 |



Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN091125\
Data File : BN037694.D
Acq On : 11 Sep 2025 11:44
Operator : RC/JU
Sample : SSTDICC0.8
Misc :
ALS Vial : 6 Sample Multiplier: 1

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDICC0.8

Quant Time: Sep 11 14:06:29 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN091125.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Sep 11 14:02:44 2025
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| Internal Standards | | | | | | | |
| 1) 1,4-Dichlorobenzene-d4 | 7.840 | 152 | 5166 | 0.400 | ng | | 0.00 |
| 7) Naphthalene-d8 | 10.648 | 136 | 13664 | 0.400 | ng | | 0.00 |
| 13) Acenaphthene-d10 | 14.495 | 164 | 6297 | 0.400 | ng | | 0.00 |
| 19) Phenanthrene-d10 | 17.235 | 188 | 11247 | 0.400 | ng | | 0.00 |
| 29) Chrysene-d12 | 21.420 | 240 | 9536 | 0.400 | ng | | 0.00 |
| 35) Perylene-d12 | 23.753 | 264 | 9336 | 0.400 | ng | | 0.00 |
| System Monitoring Compounds | | | | | | | |
| 4) 2-Fluorophenol | 5.399 | 112 | 8684 | 0.732 | ng | | 0.00 |
| 5) Phenol-d6 | 6.988 | 99 | 11241 | 0.731 | ng | | 0.00 |
| 8) Nitrobenzene-d5 | 8.993 | 82 | 7438 | 0.744 | ng | | 0.00 |
| 11) 2-Methylnaphthalene-d10 | 12.243 | 152 | 13053 | 0.721 | ng | | 0.00 |
| 14) 2,4,6-Tribromophenol | 15.982 | 330 | 1211 | 0.737 | ng | | 0.00 |
| 15) 2-Fluorobiphenyl | 13.115 | 172 | 19971 | 0.758 | ng | | 0.00 |
| 27) Fluoranthene-d10 | 19.271 | 212 | 19870 | 0.704 | ng | | 0.00 |
| 31) Terphenyl-d14 | 19.870 | 244 | 14384 | 0.743 | ng | | 0.00 |
| Target Compounds | | | | | | | Qvalue |
| 2) 1,4-Dioxane | 3.304 | 88 | 4244 | 0.789 | ng | | 98 |
| 3) n-Nitrosodimethylamine | 3.608 | 42 | 5321 | 0.757 | ng | # | 93 |
| 6) bis(2-Chloroethyl)ether | 7.255 | 93 | 10526 | 0.766 | ng | | 99 |
| 9) Naphthalene | 10.690 | 128 | 28311 | 0.758 | ng | | 100 |
| 10) Hexachlorobutadiene | 11.000 | 225 | 5165 | 0.764 | ng | # | 99 |
| 12) 2-Methylnaphthalene | 12.314 | 142 | 17311 | 0.749 | ng | | 99 |
| 16) Acenaphthylene | 14.206 | 152 | 21746 | 0.753 | ng | | 99 |
| 17) Acenaphthene | 14.559 | 154 | 14943 | 0.765 | ng | | 100 |
| 18) Fluorene | 15.535 | 166 | 17870 | 0.756 | ng | | 97 |
| 20) 4,6-Dinitro-2-methylph... | 15.609 | 198 | 751 | 0.721 | ng | # | 66 |
| 21) 4-Bromophenyl-phenylether | 16.441 | 248 | 5576 | 0.760 | ng | | 99 |
| 22) Hexachlorobenzene | 16.553 | 284 | 6299 | 0.747 | ng | | 99 |
| 23) Atrazine | 16.702 | 200 | 3288 | 0.705 | ng | | 98 |
| 24) Pentachlorophenol | 16.888 | 266 | 1652 | 0.674 | ng | | 97 |
| 25) Phenanthrene | 17.285 | 178 | 26380 | 0.745 | ng | | 100 |
| 26) Anthracene | 17.372 | 178 | 23177 | 0.739 | ng | | 100 |
| 28) Fluoranthene | 19.299 | 202 | 28541 | 0.735 | ng | | 100 |
| 30) Pyrene | 19.661 | 202 | 28089 | 0.752 | ng | | 100 |
| 32) Benzo(a)anthracene | 21.402 | 228 | 24740 | 0.744 | ng | | 99 |
| 33) Chrysene | 21.456 | 228 | 26737 | 0.750 | ng | | 99 |
| 34) Bis(2-ethylhexyl)phtha... | 21.349 | 149 | 6579 | 0.667 | ng | | 98 |
| 36) Indeno(1,2,3-cd)pyrene | 26.142 | 276 | 28614 | 0.729 | ng | | 100 |
| 37) Benzo(b)fluoranthene | 23.049 | 252 | 26965 | 0.733 | ng | | 98 |
| 38) Benzo(k)fluoranthene | 23.095 | 252 | 28034 | 0.748 | ng | | 98 |
| 39) Benzo(a)pyrene | 23.651 | 252 | 21496 | 0.730 | ng | | 95 |
| 40) Dibenzo(a,h)anthracene | 26.162 | 278 | 23010 | 0.735 | ng | | 95 |
| 41) Benzo(g,h,i)perylene | 26.867 | 276 | 25683 | 0.731 | ng | | 98 |

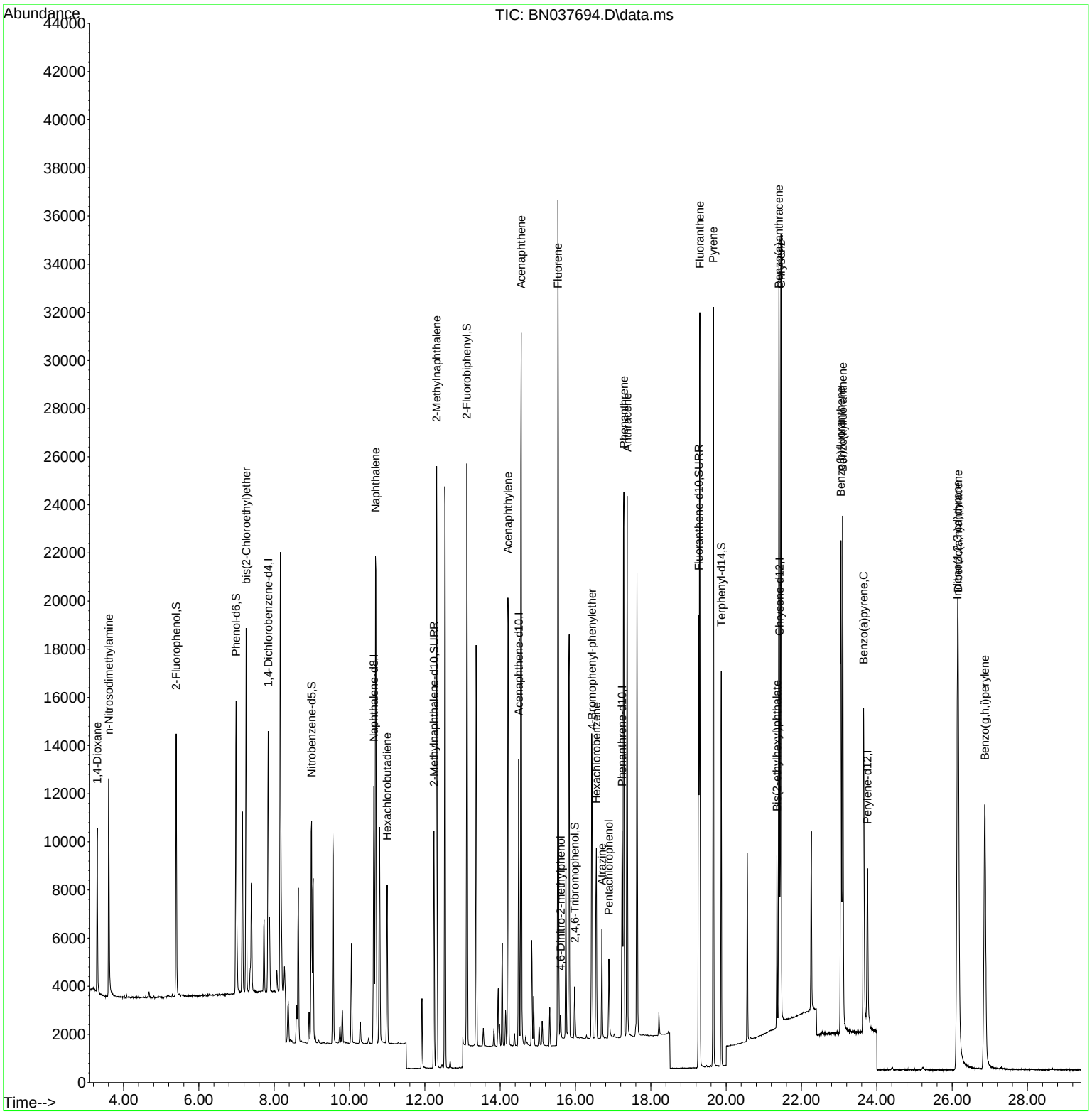
(#) = qualifier out of range (m) = manual integration (+) = signals summed

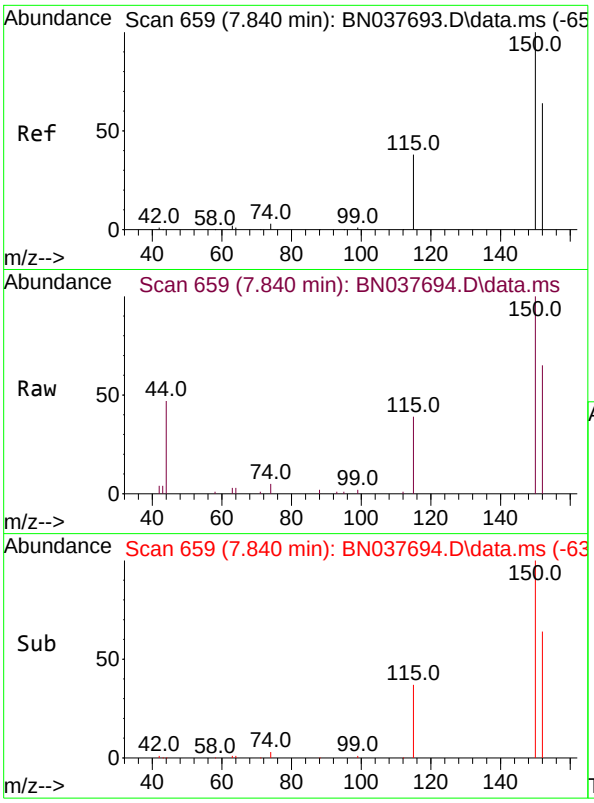
ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN091125\
Data File : BN037694.D
Acq On : 11 Sep 2025 11:44
Operator : RC/JU
Sample : SSTDICC0.8
Misc :
ALS Vial : 6 Sample Multiplier: 1

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDICC0.8

Quant Time: Sep 11 14:06:29 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN091125.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Sep 11 14:02:44 2025
Response via : Initial Calibration



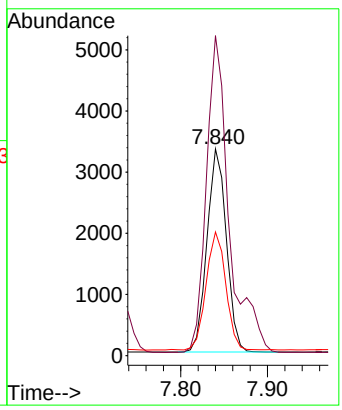


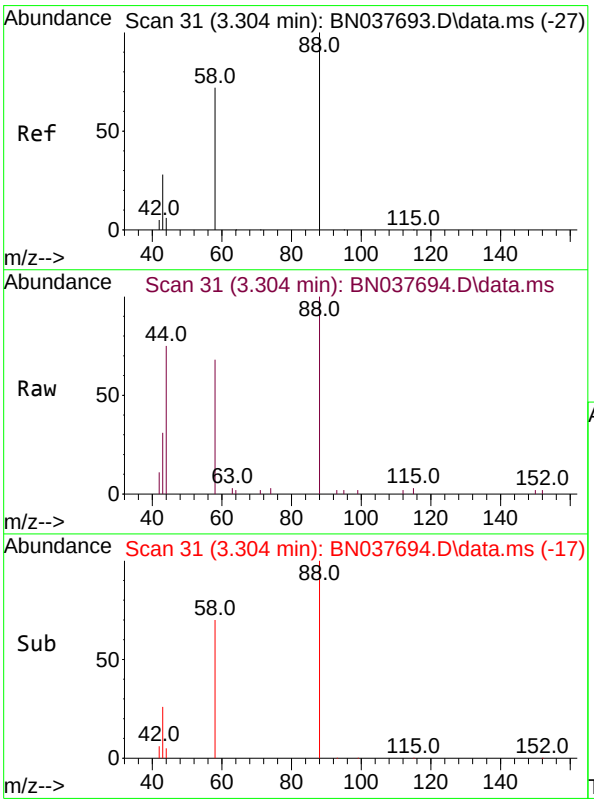

#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.840 min Scan# 6
Delta R.T. -0.000 min
Lab File: BN037694.D
Acq: 11 Sep 2025 11:44

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDICC0.8

Tgt Ion:152 Resp: 5166

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 150 | 154.9 | 124.5 | 186.7 |
| 115 | 59.8 | 49.2 | 73.8 |

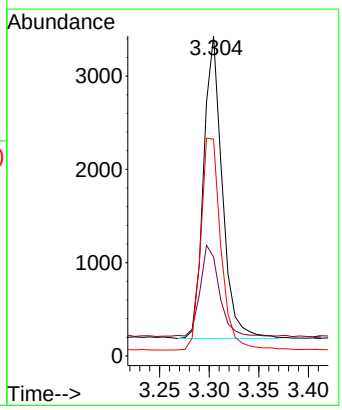


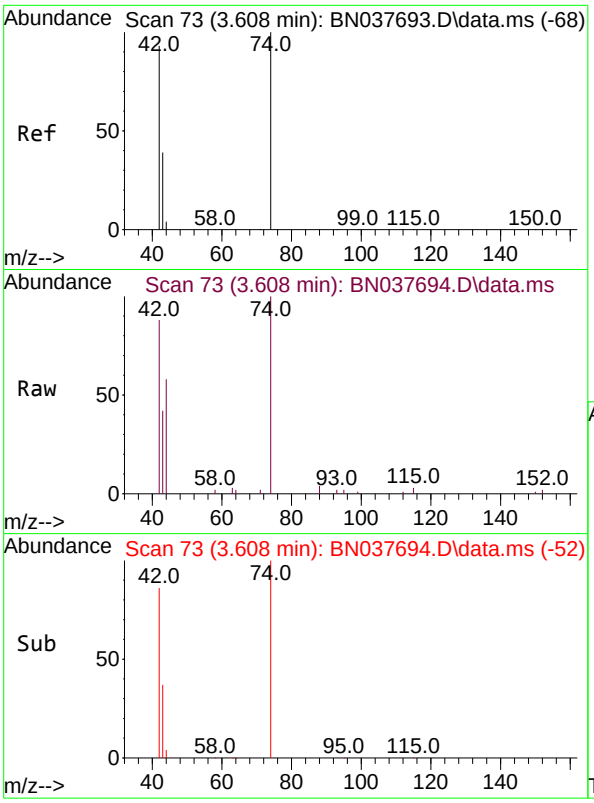




#2
1,4-Dioxane
Concen: 0.789 ng
RT: 3.304 min Scan# 31
Delta R.T. -0.000 min
Lab File: BN037694.D
Acq: 11 Sep 2025 11:44

Tgt Ion: 88 Resp: 4244

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 88 | 100 | | |
| 43 | 31.1 | 26.8 | 40.2 |
| 58 | 76.2 | 61.9 | 92.9 |



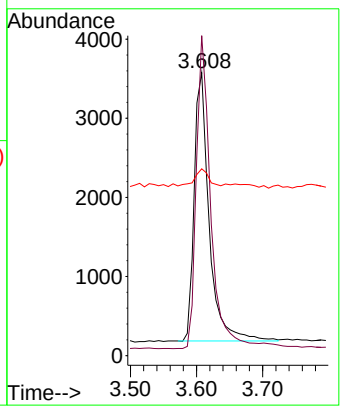


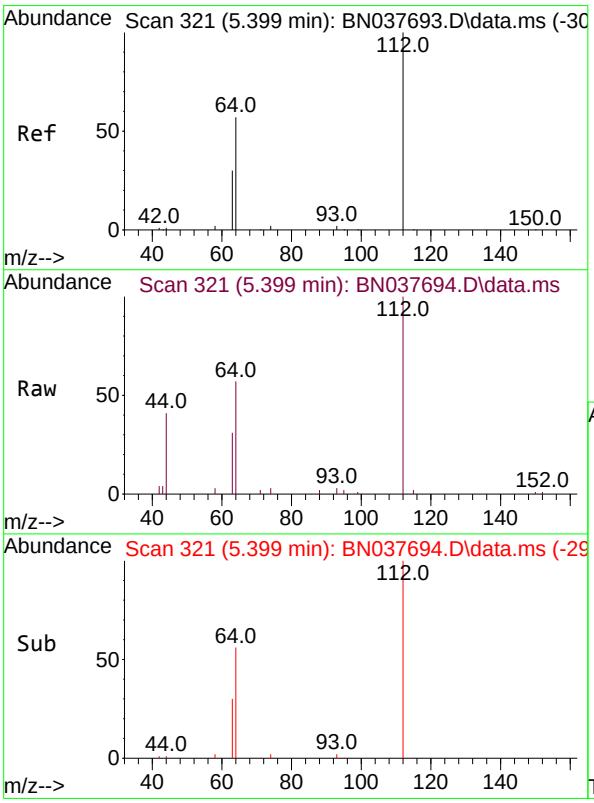

#3
n-Nitrosodimethylamine
Concen: 0.757 ng
RT: 3.608 min Scan# 7
Delta R.T. -0.000 min
Lab File: BN037694.D
Acq: 11 Sep 2025 11:44

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDICC0.8

Tgt Ion: 42 Resp: 5321

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 42 | 100 | | |
| 74 | 114.4 | 86.0 | 129.0 |
| 44 | 6.9 | 8.4 | 12.6# |

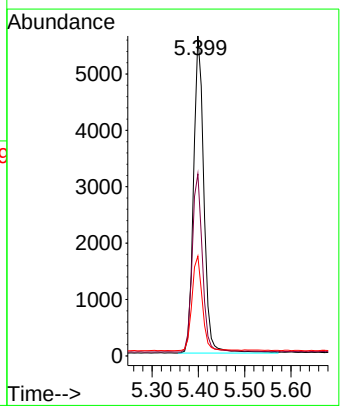


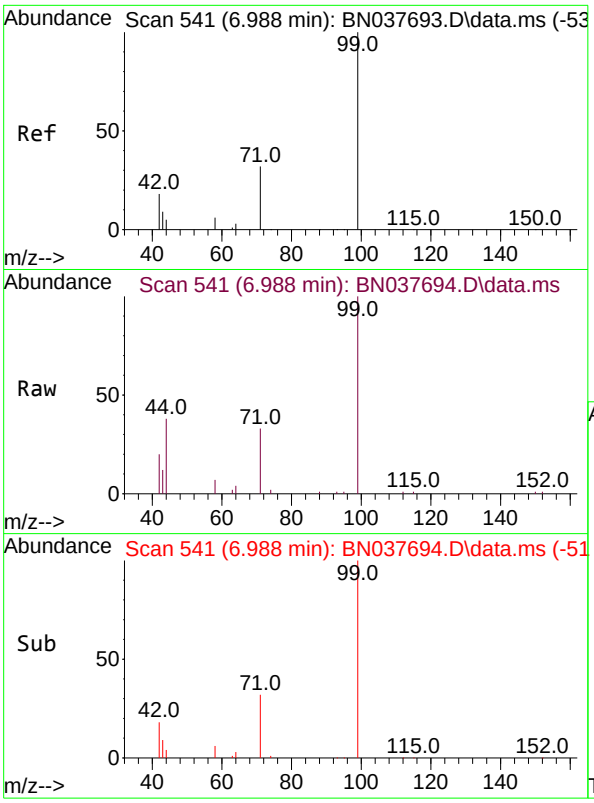




#4
2-Fluorophenol
Concen: 0.732 ng
RT: 5.399 min Scan# 321
Delta R.T. -0.000 min
Lab File: BN037694.D
Acq: 11 Sep 2025 11:44

Tgt Ion:112 Resp: 8684

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 112 | 100 | | |
| 64 | 55.6 | 44.9 | 67.3 |
| 63 | 29.8 | 24.7 | 37.1 |



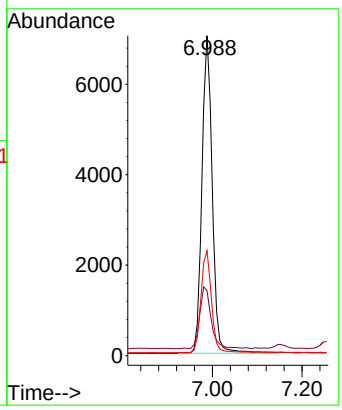


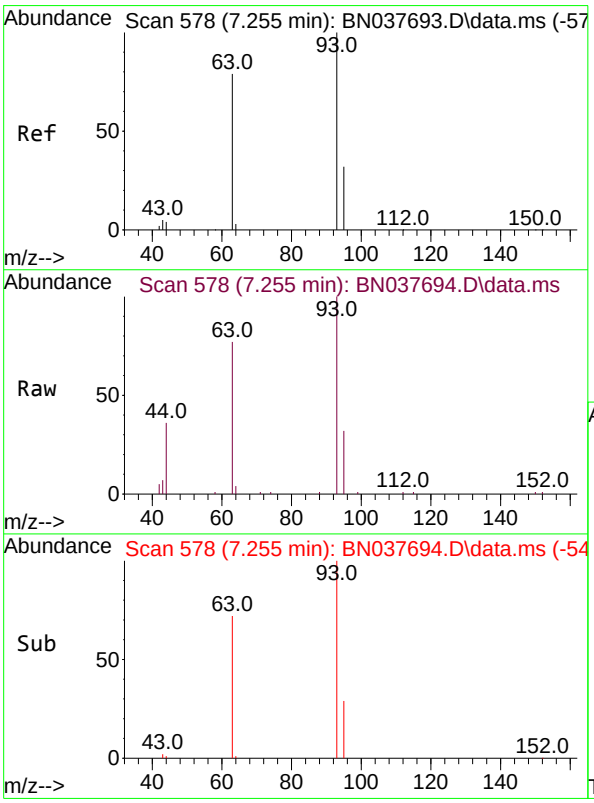

#5
Phenol-d6
Concen: 0.731 ng
RT: 6.988 min Scan# 54
Delta R.T. -0.000 min
Lab File: BN037694.D
Acq: 11 Sep 2025 11:44

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDICC0.8

Tgt Ion: 99 Resp: 11241

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 99 | 100 | | |
| 42 | 21.6 | 16.6 | 24.8 |
| 71 | 32.6 | 26.7 | 40.1 |

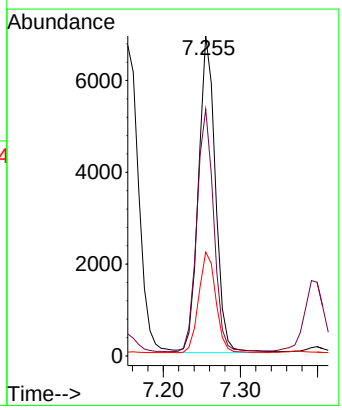


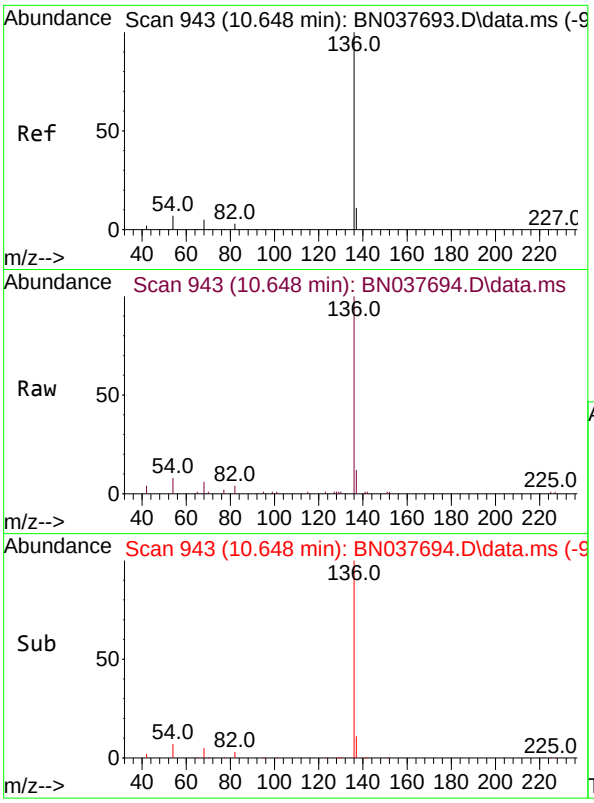




#6
bis(2-Chloroethyl)ether
Concen: 0.766 ng
RT: 7.255 min Scan# 578
Delta R.T. -0.000 min
Lab File: BN037694.D
Acq: 11 Sep 2025 11:44

Tgt Ion: 93 Resp: 10526

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 93 | 100 | | |
| 63 | 76.1 | 60.6 | 90.8 |
| 95 | 32.1 | 26.0 | 39.0 |



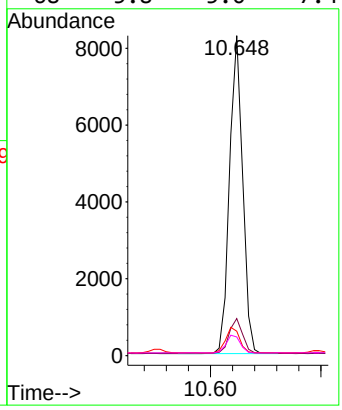


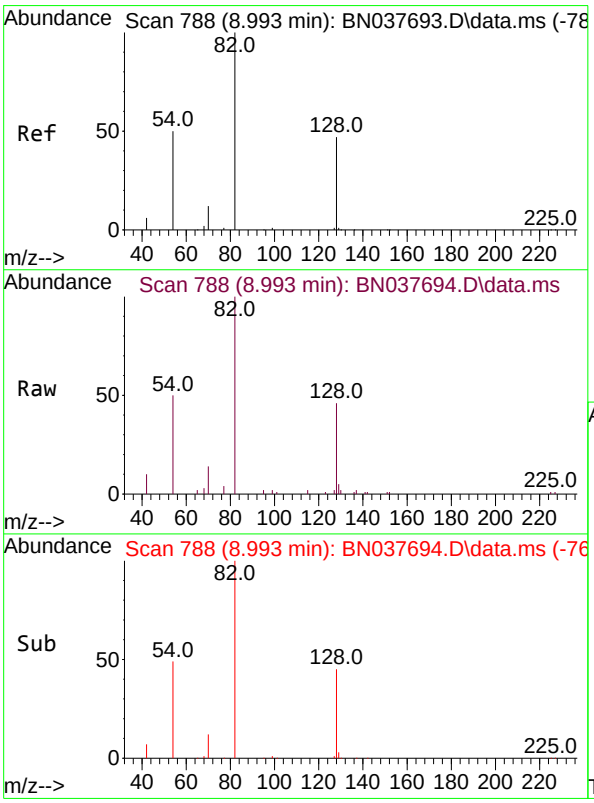

#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.648 min Scan# 94
Delta R.T. -0.000 min
Lab File: BN037694.D
Acq: 11 Sep 2025 11:44

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDICC0.8

Tgt Ion:136 Resp: 13664

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 136 | 100 | | |
| 137 | 11.6 | 9.1 | 13.7 |
| 54 | 7.6 | 6.3 | 9.5 |
| 68 | 5.8 | 5.0 | 7.4 |

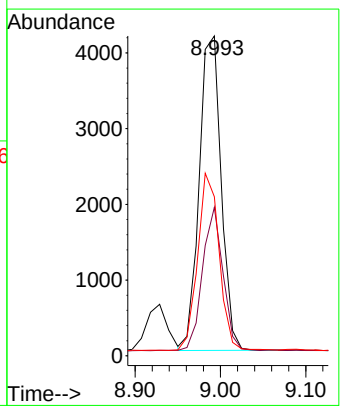


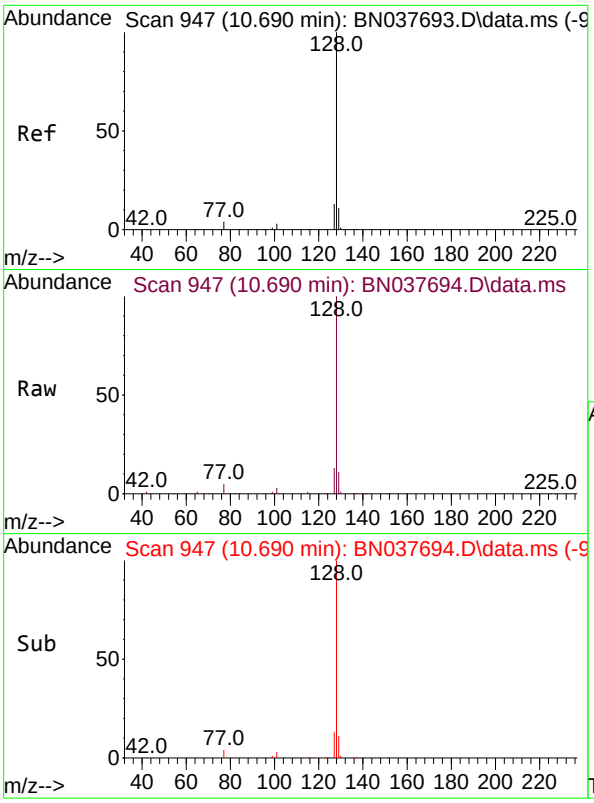




#8
Nitrobenzene-d5
Concen: 0.744 ng
RT: 8.993 min Scan# 788
Delta R.T. -0.000 min
Lab File: BN037694.D
Acq: 11 Sep 2025 11:44

Tgt Ion: 82 Resp: 7438

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 82 | 100 | | |
| 128 | 46.4 | 38.3 | 57.5 |
| 54 | 49.7 | 41.4 | 62.2 |



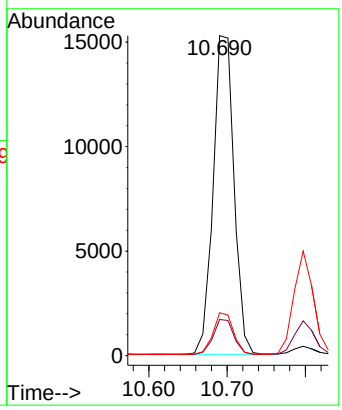


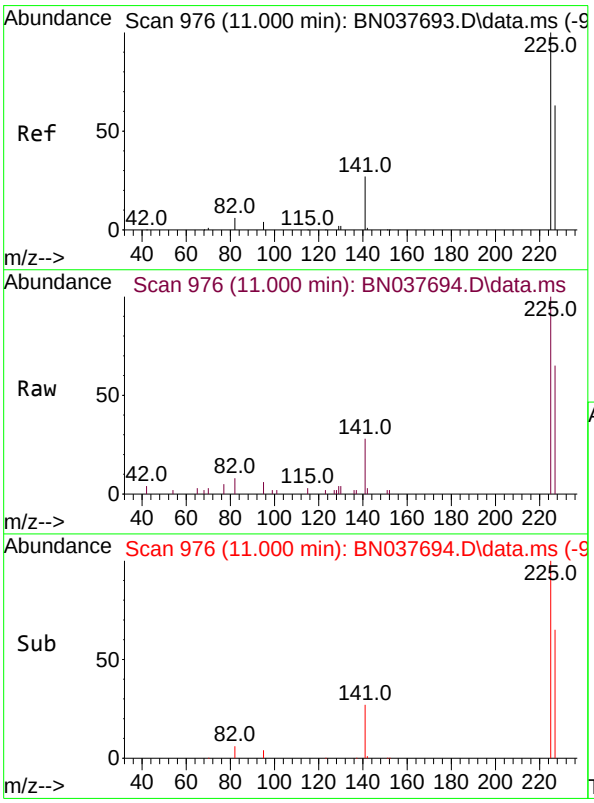

#9
Naphthalene
Concen: 0.758 ng
RT: 10.690 min Scan# 94
Delta R.T. -0.000 min
Lab File: BN037694.D
Acq: 11 Sep 2025 11:44

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDICC0.8

Tgt Ion:128 Resp: 28311

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 128 | 100 | | |
| 129 | 11.3 | 9.1 | 13.7 |
| 127 | 13.4 | 10.9 | 16.3 |

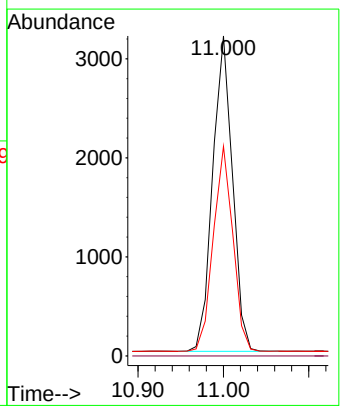


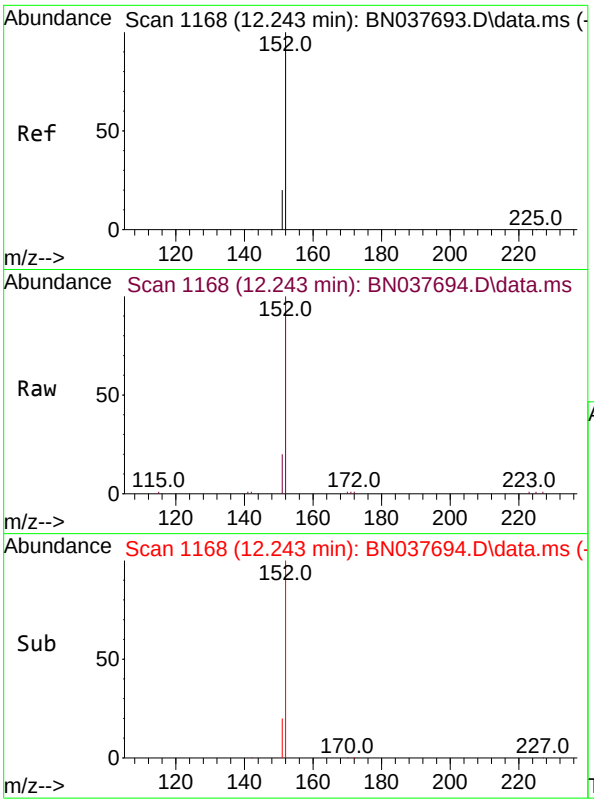




#10
Hexachlorobutadiene
Concen: 0.764 ng
RT: 11.000 min Scan# 976
Delta R.T. -0.000 min
Lab File: BN037694.D
Acq: 11 Sep 2025 11:44

Tgt Ion:225 Resp: 5165

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 225 | 100 | | |
| 223 | 0.0 | 0.0 | 0.0 |
| 227 | 64.3 | 50.9 | 76.3 |



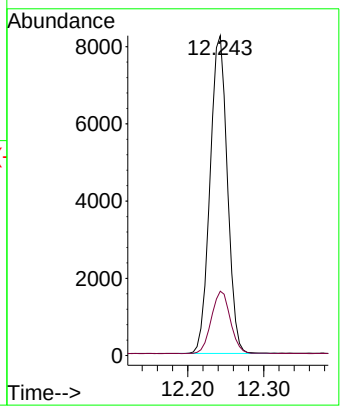


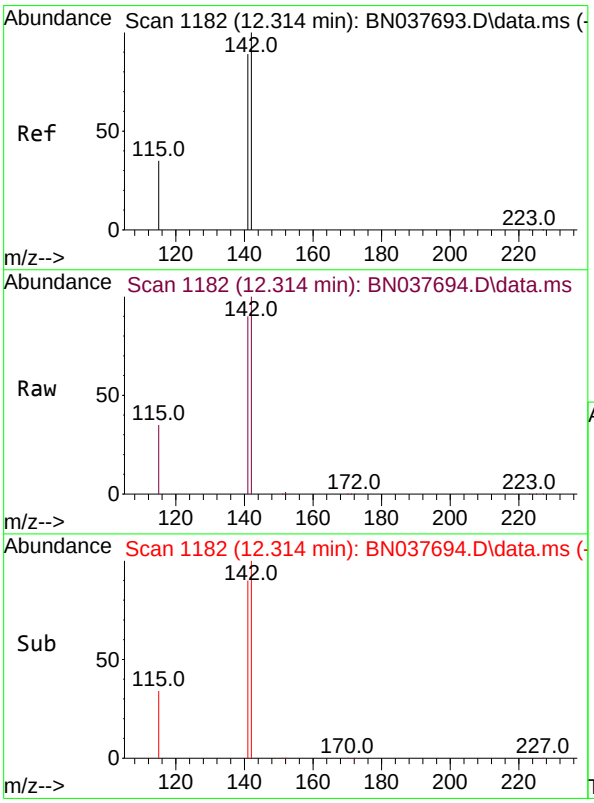

#11
2-Methylnaphthalene-d10
Concen: 0.721 ng
RT: 12.243 min Scan# 11
Delta R.T. -0.000 min
Lab File: BN037694.D
Acq: 11 Sep 2025 11:44

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDICC0.8

Tgt Ion:152 Resp: 13053

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 151 | 21.5 | 17.0 | 25.6 |

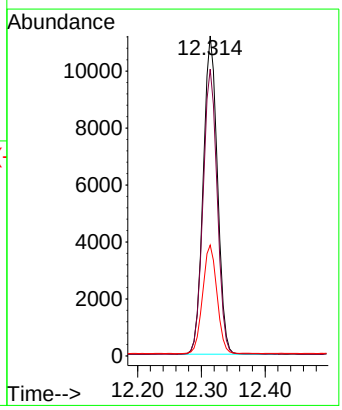


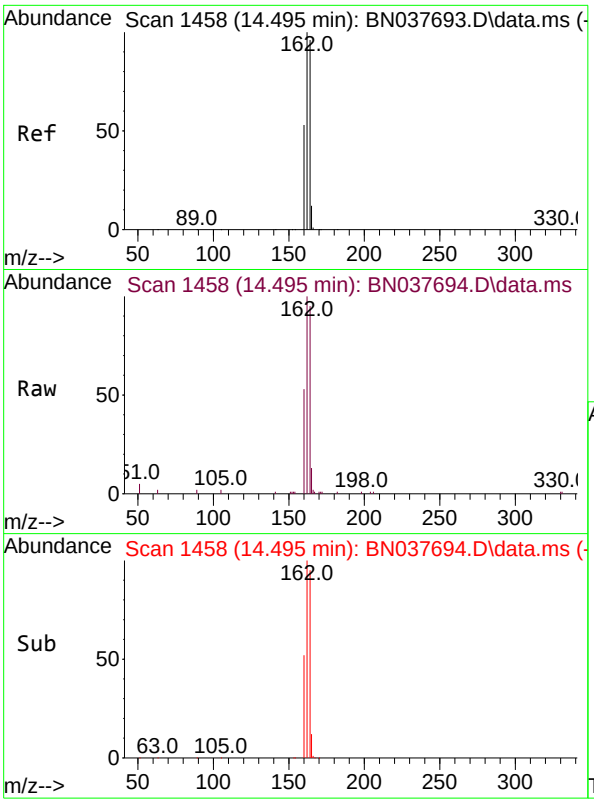




#12
2-Methylnaphthalene
Concen: 0.749 ng
RT: 12.314 min Scan# 1182
Delta R.T. -0.000 min
Lab File: BN037694.D
Acq: 11 Sep 2025 11:44

Tgt Ion:142 Resp: 17311

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 142 | 100 | | |
| 141 | 89.6 | 71.6 | 107.4 |
| 115 | 34.6 | 28.6 | 43.0 |



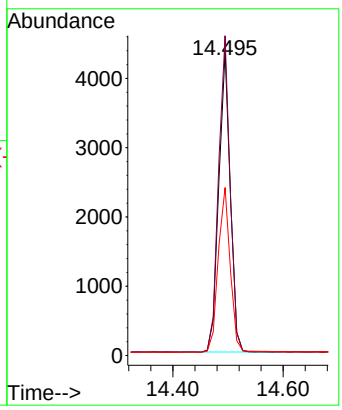


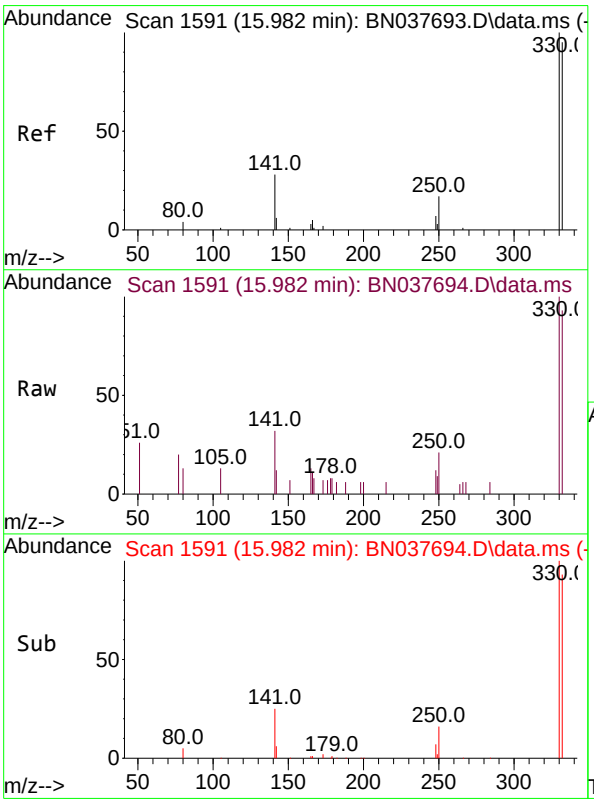

#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.495 min Scan# 14
Delta R.T. -0.000 min
Lab File: BN037694.D
Acq: 11 Sep 2025 11:44

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDICC0.8

Tgt Ion:164 Resp: 6297

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 164 | 100 | | |
| 162 | 105.3 | 83.1 | 124.7 |
| 160 | 55.3 | 44.3 | 66.5 |

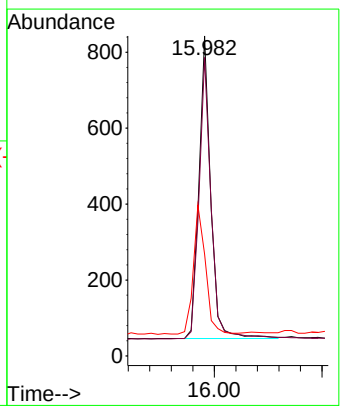


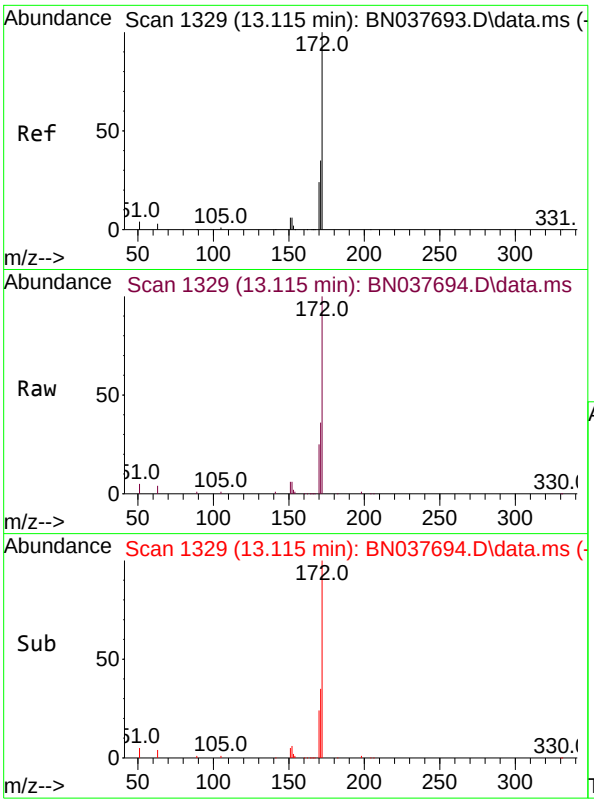




#14
2,4,6-Tribromophenol
Concen: 0.737 ng
RT: 15.982 min Scan# 1591
Delta R.T. -0.000 min
Lab File: BN037694.D
Acq: 11 Sep 2025 11:44

Tgt Ion:330 Resp: 1211

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 330 | 100 | | |
| 332 | 95.7 | 75.3 | 112.9 |
| 141 | 43.4 | 35.0 | 52.4 |



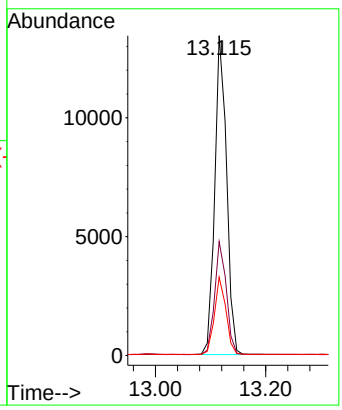


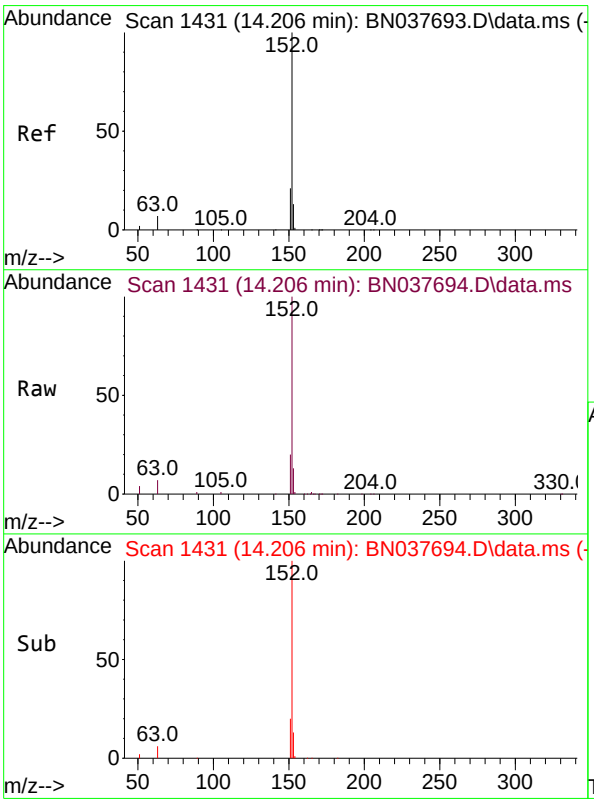

#15
2-Fluorobiphenyl
Concen: 0.758 ng
RT: 13.115 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN037694.D
Acq: 11 Sep 2025 11:44

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDICC0.8

Tgt Ion:172 Resp: 19971

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 172 | 100 | | |
| 171 | 35.6 | 28.6 | 43.0 |
| 170 | 24.5 | 19.8 | 29.8 |

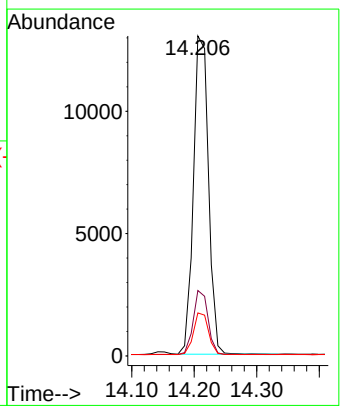


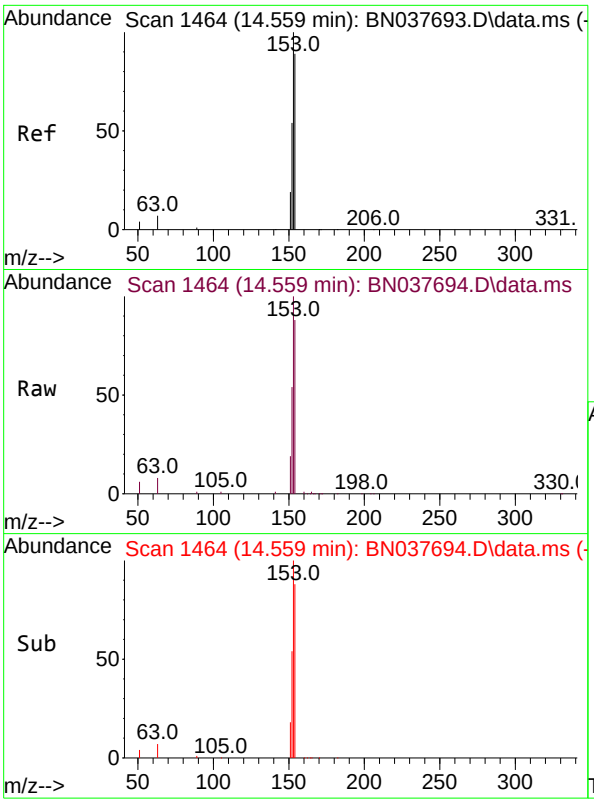




#16
Acenaphthylene
Concen: 0.753 ng
RT: 14.206 min Scan# 1431
Delta R.T. -0.000 min
Lab File: BN037694.D
Acq: 11 Sep 2025 11:44

Tgt Ion:152 Resp: 21746

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 151 | 19.8 | 16.2 | 24.2 |
| 153 | 13.1 | 10.4 | 15.6 |



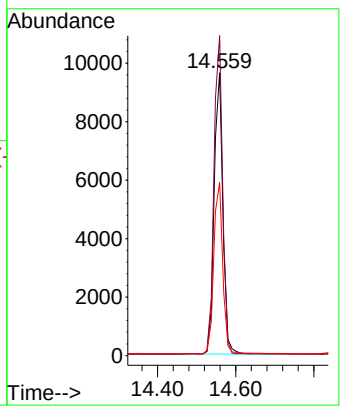


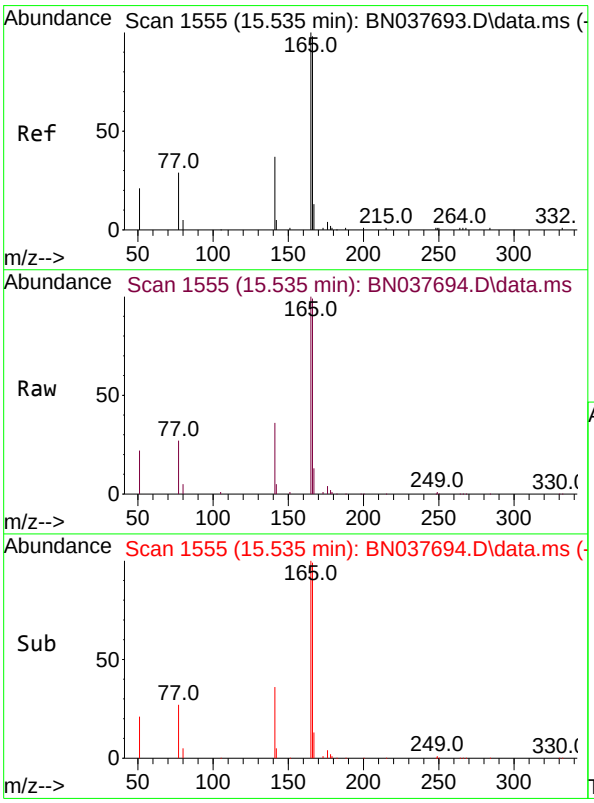

#17
Acenaphthene
Concen: 0.765 ng
RT: 14.559 min Scan# 14
Delta R.T. -0.000 min
Lab File: BN037694.D
Acq: 11 Sep 2025 11:44

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDICC0.8

Tgt Ion:154 Resp: 14943

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 154 | 100 | | |
| 153 | 112.2 | 89.8 | 134.8 |
| 152 | 62.5 | 50.2 | 75.2 |

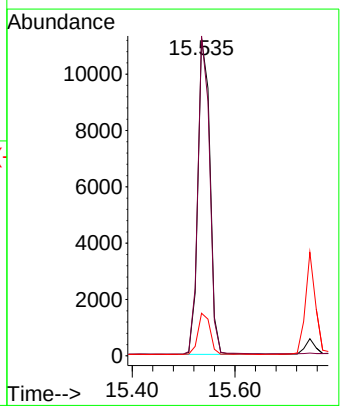


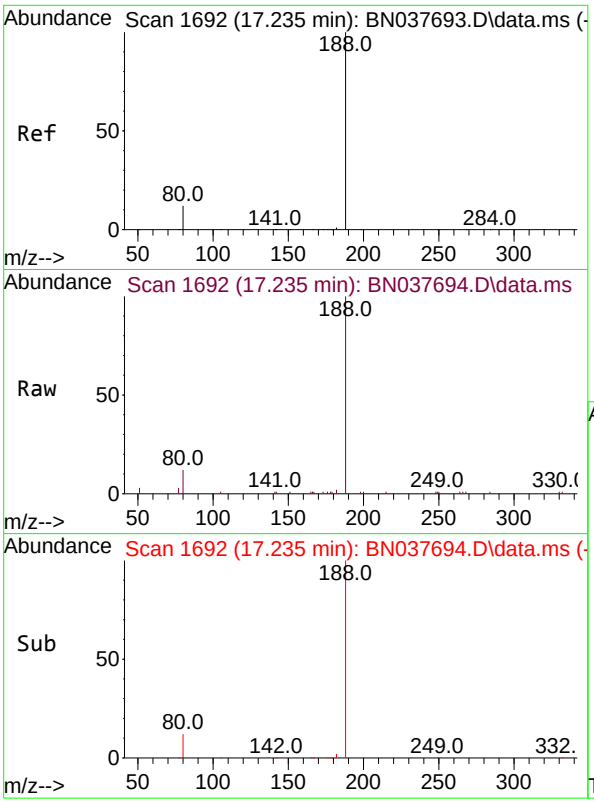




#18
Fluorene
Concen: 0.756 ng
RT: 15.535 min Scan# 1555
Delta R.T. -0.000 min
Lab File: BN037694.D
Acq: 11 Sep 2025 11:44

Tgt Ion:166 Resp: 17870

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 166 | 100 | | |
| 165 | 96.2 | 79.6 | 119.4 |
| 167 | 13.0 | 10.6 | 16.0 |



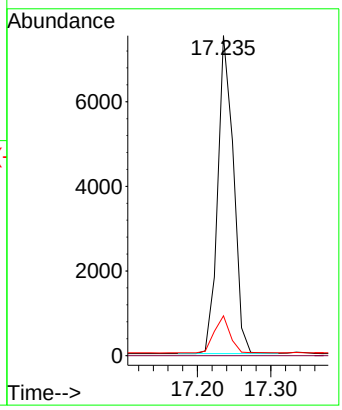


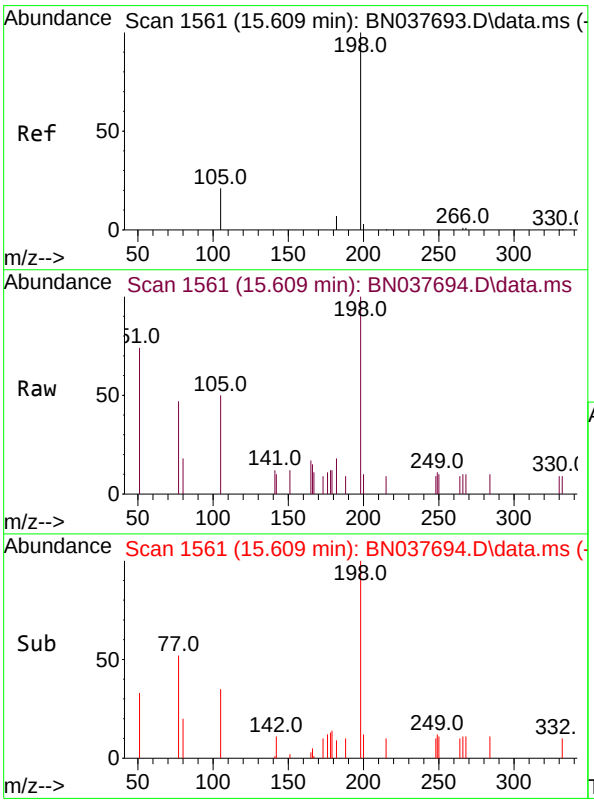

#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.235 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN037694.D
Acq: 11 Sep 2025 11:44

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDICC0.8

Tgt Ion:188 Resp: 11247

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 188 | 100 | | |
| 94 | 0.0 | 0.0 | 0.0 |
| 80 | 12.4 | 10.6 | 15.8 |

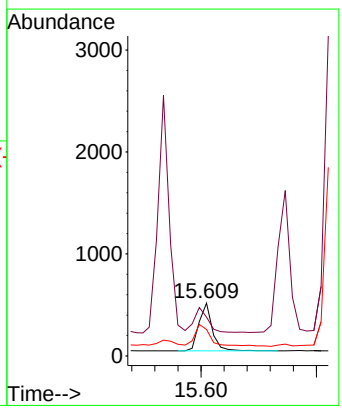


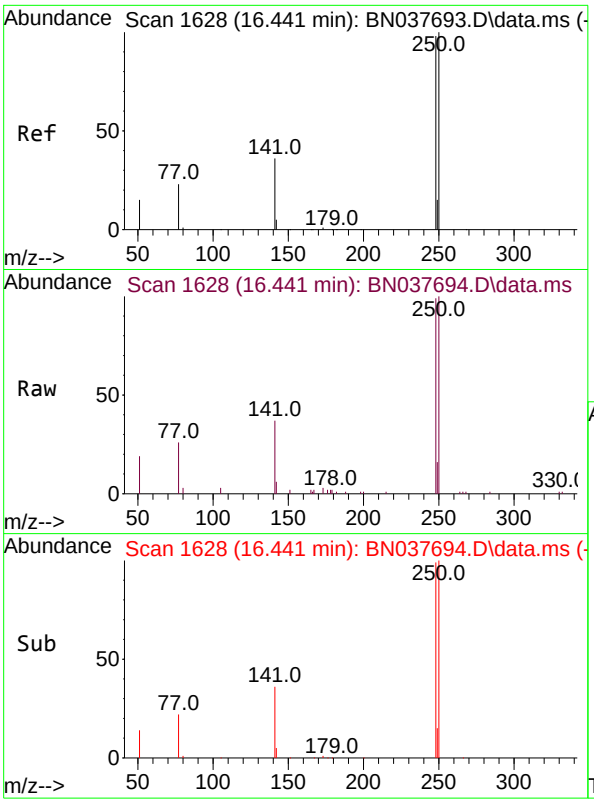




#20
4,6-Dinitro-2-methylphenol
Concen: 0.721 ng
RT: 15.609 min Scan# 1561
Delta R.T. 0.000 min
Lab File: BN037694.D
Acq: 11 Sep 2025 11:44

Tgt Ion:198 Resp: 751

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 198 | 100 | | |
| 51 | 73.7 | 95.1 | 142.7# |
| 105 | 50.3 | 53.8 | 80.6# |



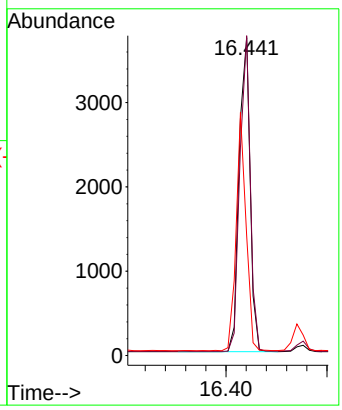


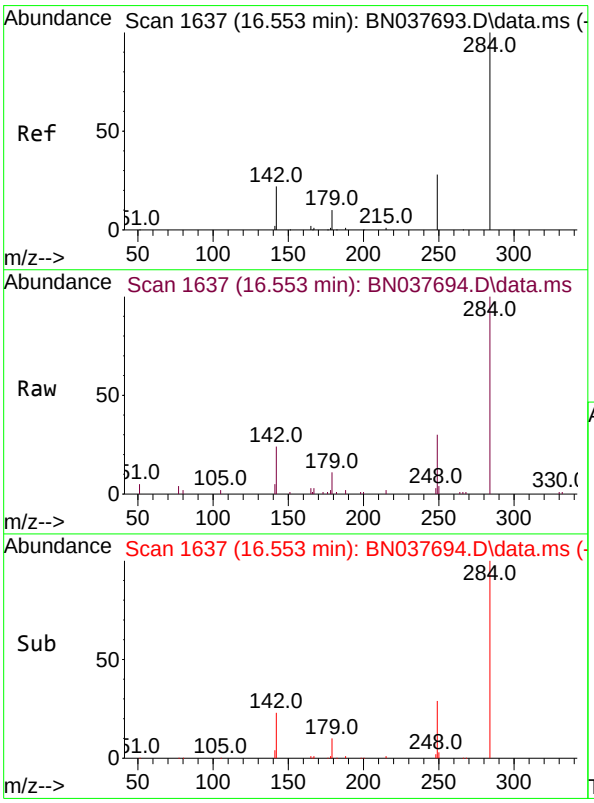

#21
4-Bromophenyl-phenylether
Concen: 0.760 ng
RT: 16.441 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN037694.D
Acq: 11 Sep 2025 11:44

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDICC0.8

Tgt Ion:248 Resp: 5576

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 248 | 100 | | |
| 250 | 100.6 | 81.5 | 122.3 |
| 141 | 37.7 | 30.8 | 46.2 |

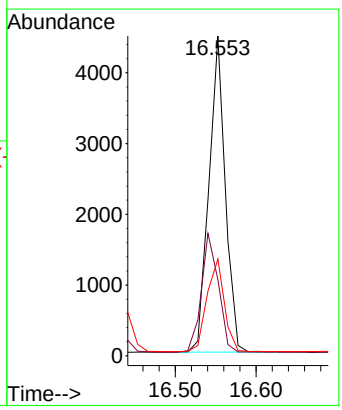


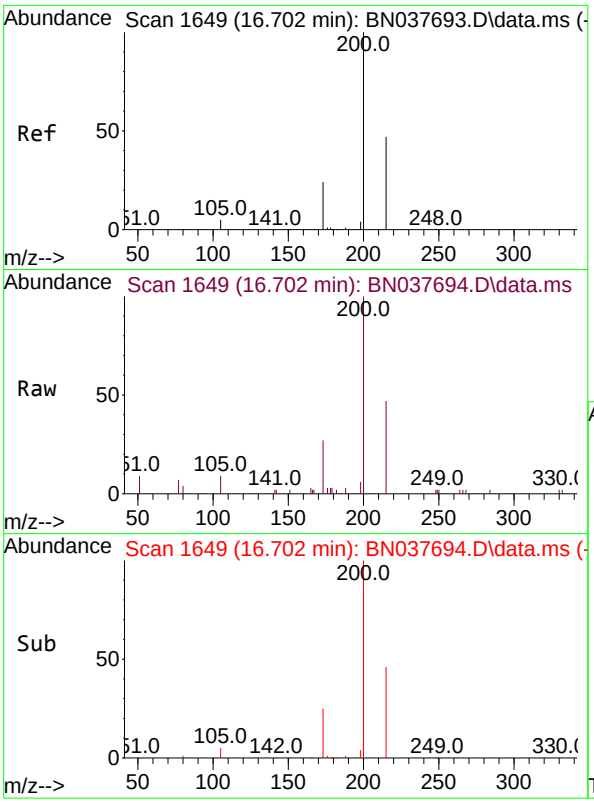




#22
Hexachlorobenzene
Concen: 0.747 ng
RT: 16.553 min Scan# 1637
Delta R.T. -0.000 min
Lab File: BN037694.D
Acq: 11 Sep 2025 11:44

Tgt Ion:284 Resp: 6299

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 284 | 100 | | |
| 142 | 39.1 | 30.9 | 46.3 |
| 249 | 31.2 | 24.8 | 37.2 |



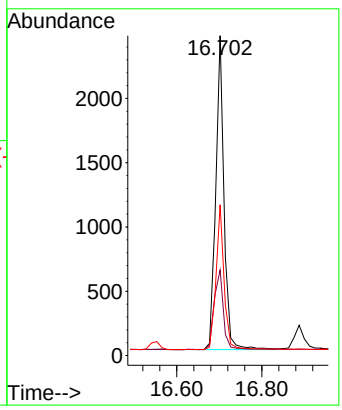


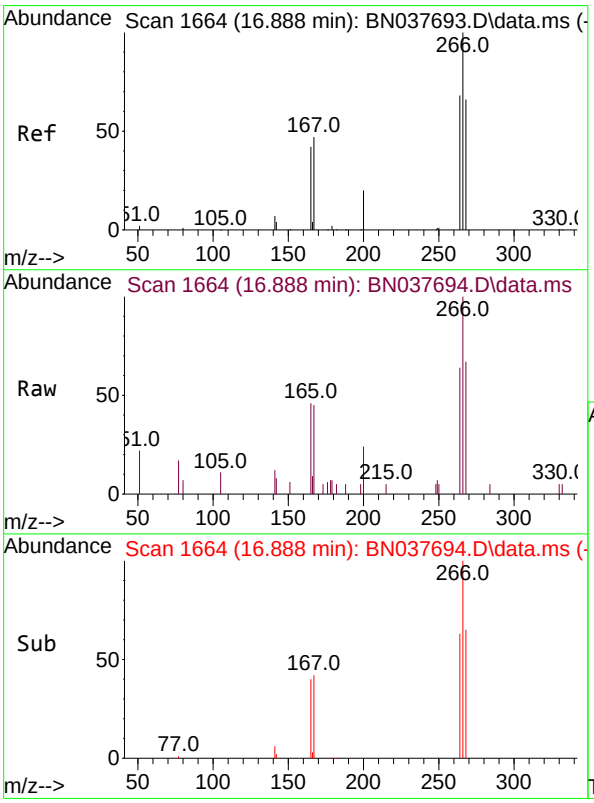

#23
Atrazine
Concen: 0.705 ng
RT: 16.702 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN037694.D
Acq: 11 Sep 2025 11:44

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDICC0.8

Tgt Ion:200 Resp: 3288

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 200 | 100 | | |
| 173 | 26.8 | 21.4 | 32.2 |
| 215 | 47.1 | 39.2 | 58.8 |

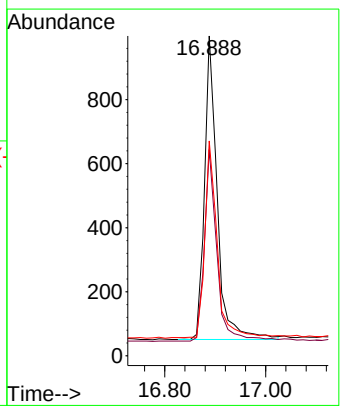


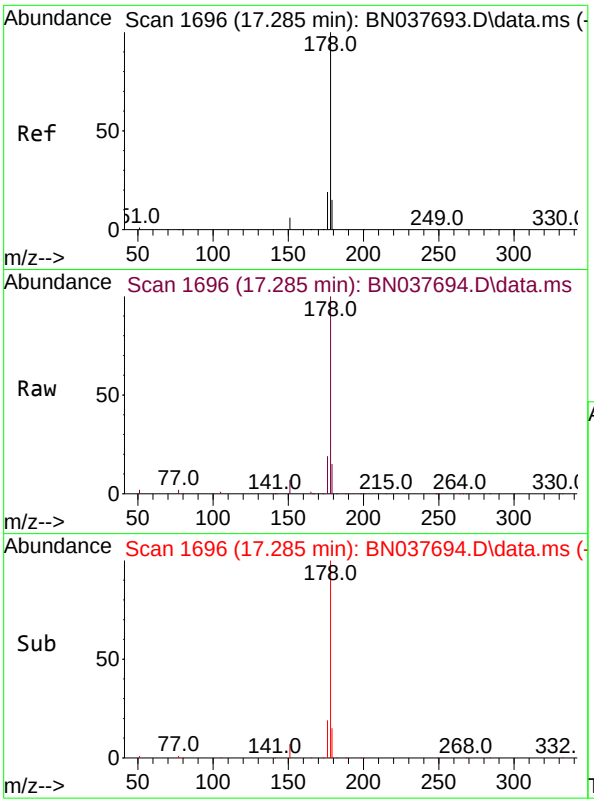




#24
Pentachlorophenol
Concen: 0.674 ng
RT: 16.888 min Scan# 1664
Delta R.T. -0.000 min
Lab File: BN037694.D
Acq: 11 Sep 2025 11:44

Tgt Ion:266 Resp: 1652

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 266 | 100 | | |
| 264 | 61.9 | 51.6 | 77.4 |
| 268 | 64.7 | 53.2 | 79.8 |



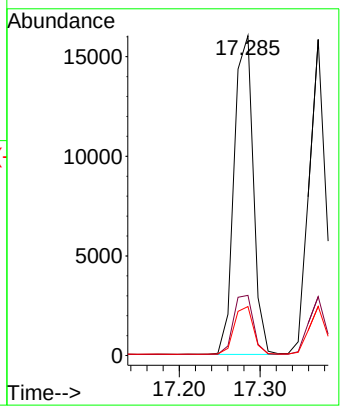


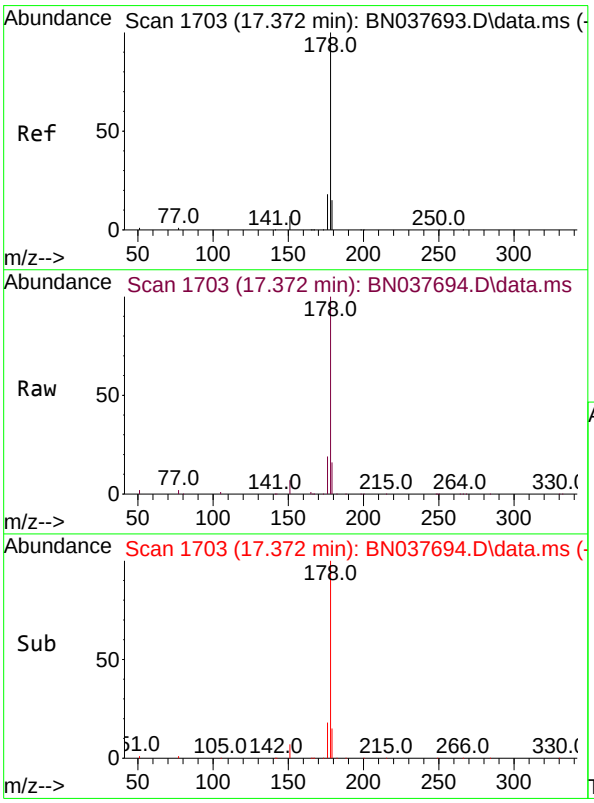

#25
Phenanthrene
Concen: 0.745 ng
RT: 17.285 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN037694.D
Acq: 11 Sep 2025 11:44

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDICC0.8

Tgt Ion:178 Resp: 26380

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 178 | 100 | | |
| 176 | 19.3 | 15.3 | 22.9 |
| 179 | 15.1 | 12.2 | 18.2 |

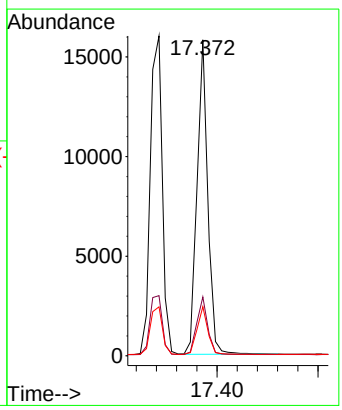


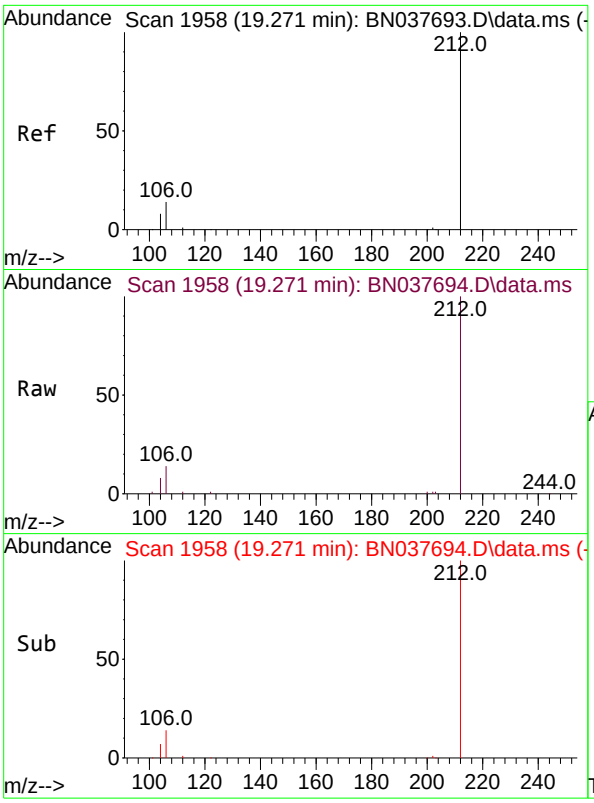




#26
Anthracene
Concen: 0.739 ng
RT: 17.372 min Scan# 1703
Delta R.T. -0.000 min
Lab File: BN037694.D
Acq: 11 Sep 2025 11:44

Tgt Ion:178 Resp: 23177

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 178 | 100 | | |
| 176 | 18.5 | 14.6 | 22.0 |
| 179 | 15.2 | 12.2 | 18.4 |



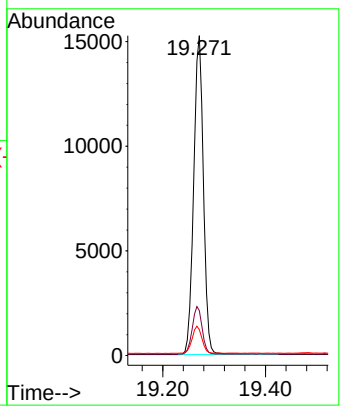


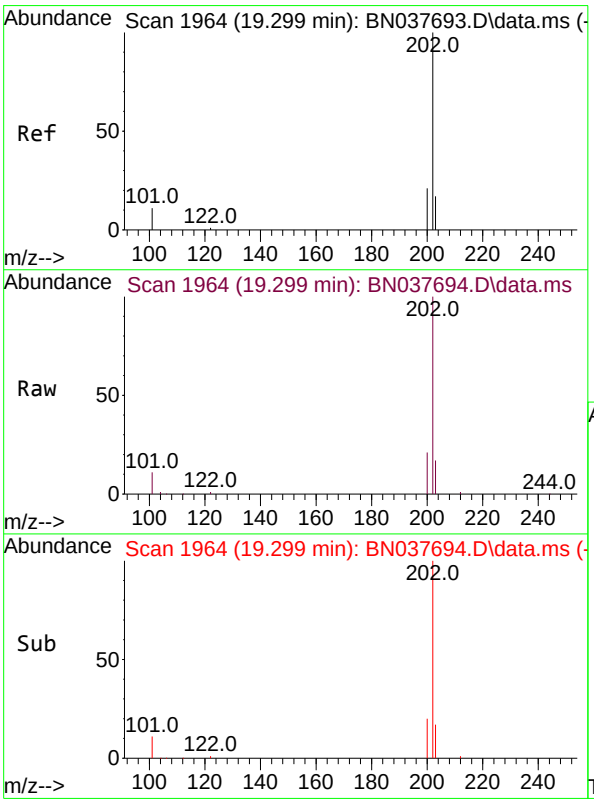

#27
Fluoranthene-d10
Concen: 0.704 ng
RT: 19.271 min Scan# 19
Delta R.T. -0.000 min
Lab File: BN037694.D
Acq: 11 Sep 2025 11:44

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDICC0.8

Tgt Ion:212 Resp: 19870

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 212 | 100 | | |
| 106 | 15.2 | 12.2 | 18.2 |
| 104 | 8.8 | 6.9 | 10.3 |

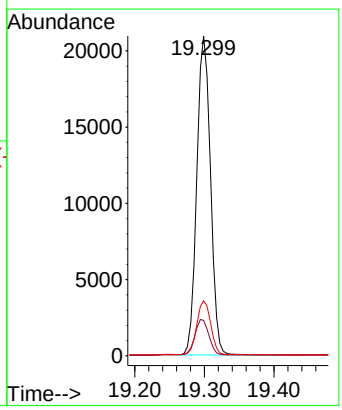


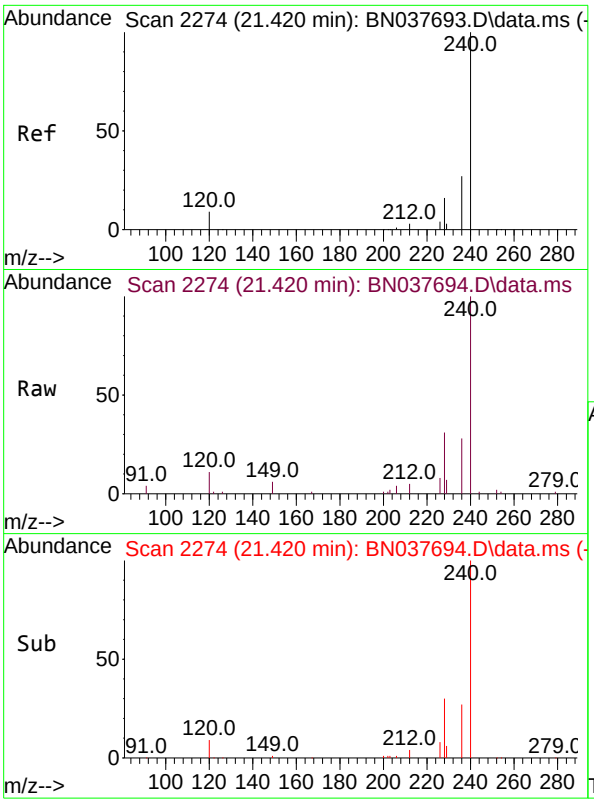




#28
Fluoranthene
Concen: 0.735 ng
RT: 19.299 min Scan# 1964
Delta R.T. -0.000 min
Lab File: BN037694.D
Acq: 11 Sep 2025 11:44

Tgt Ion:202 Resp: 28541

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 202 | 100 | | |
| 101 | 11.5 | 9.3 | 13.9 |
| 203 | 17.1 | 13.7 | 20.5 |



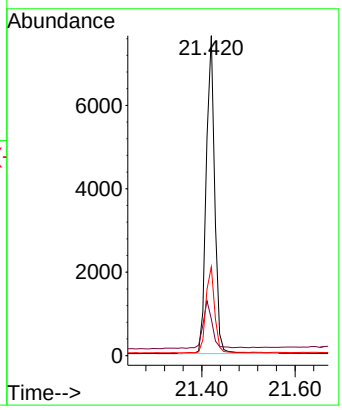


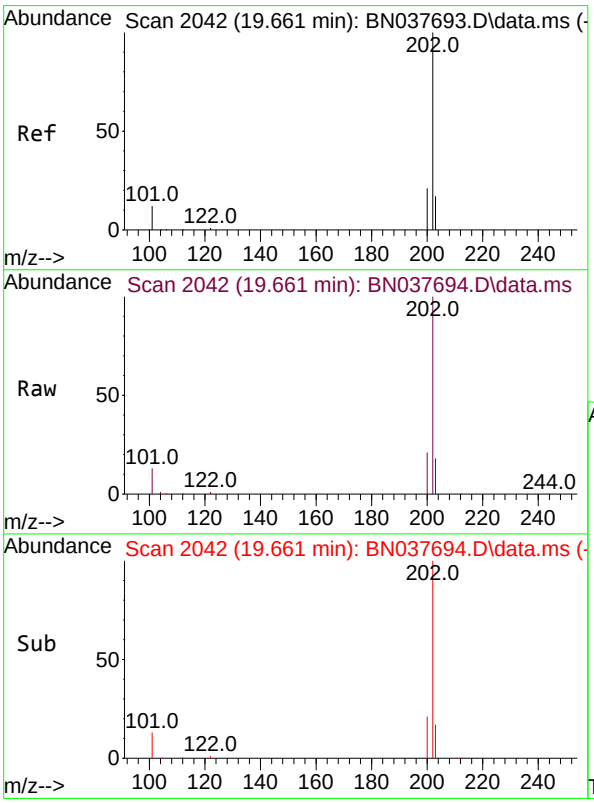

#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.420 min Scan# 21
Delta R.T. -0.000 min
Lab File: BN037694.D
Acq: 11 Sep 2025 11:44

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDICC0.8

Tgt Ion:240 Resp: 9536

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 240 | 100 | | |
| 120 | 11.4 | 9.2 | 13.8 |
| 236 | 27.7 | 22.6 | 33.8 |

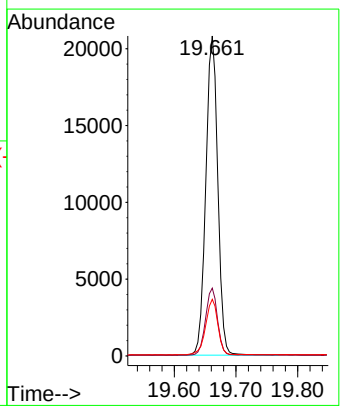


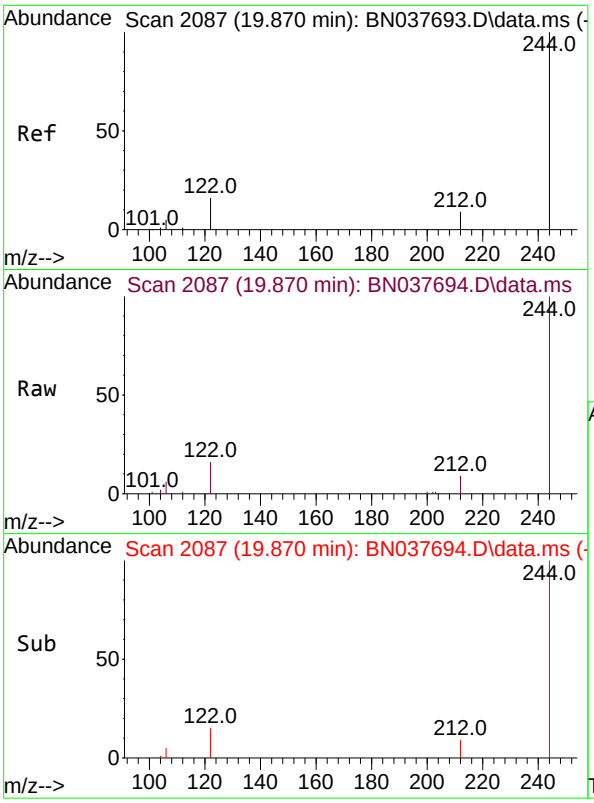




#30
Pyrene
Concen: 0.752 ng
RT: 19.661 min Scan# 2042
Delta R.T. -0.000 min
Lab File: BN037694.D
Acq: 11 Sep 2025 11:44

Tgt Ion:202 Resp: 28089

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 202 | 100 | | |
| 200 | 20.9 | 16.8 | 25.2 |
| 203 | 17.8 | 14.3 | 21.5 |



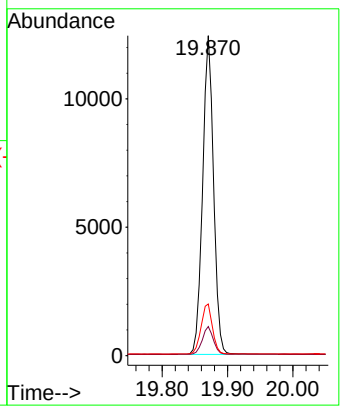


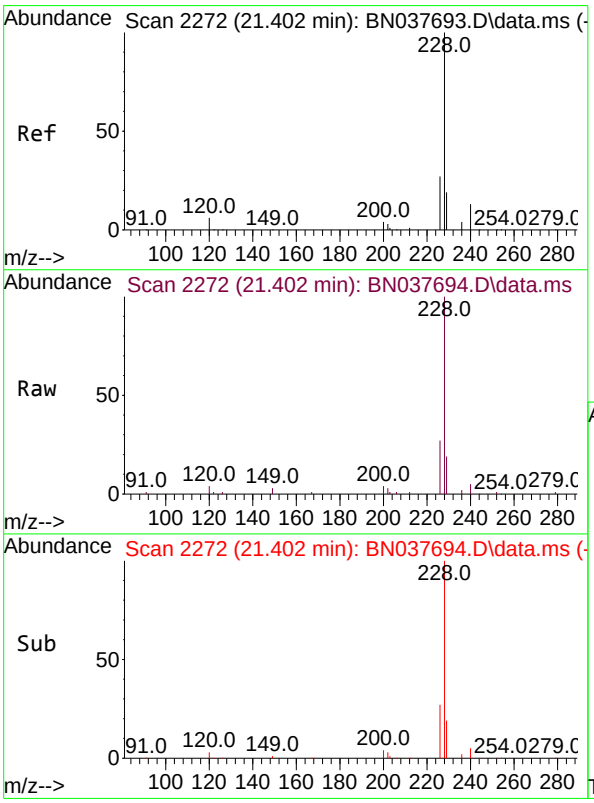

#31
Terphenyl-d14
Concen: 0.743 ng
RT: 19.870 min Scan# 20
Delta R.T. -0.000 min
Lab File: BN037694.D
Acq: 11 Sep 2025 11:44

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDICC0.8

Tgt Ion:244 Resp: 14384

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 244 | 100 | | |
| 212 | 9.1 | 7.5 | 11.3 |
| 122 | 16.1 | 13.2 | 19.8 |

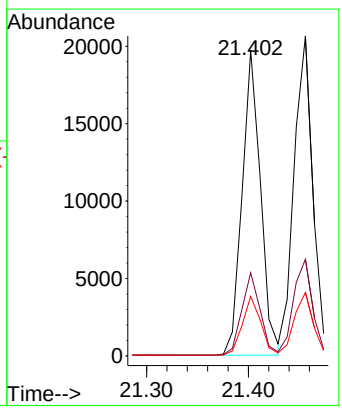


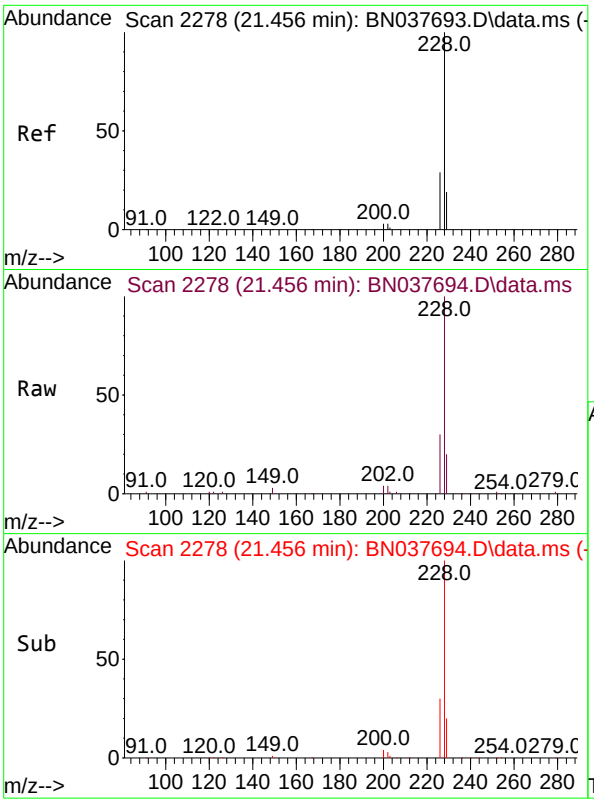




#32
Benzo(a)anthracene
Concen: 0.744 ng
RT: 21.402 min Scan# 2272
Delta R.T. -0.000 min
Lab File: BN037694.D
Acq: 11 Sep 2025 11:44

Tgt Ion:228 Resp: 24740

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 228 | 100 | | |
| 226 | 27.2 | 22.2 | 33.2 |
| 229 | 19.5 | 15.8 | 23.6 |



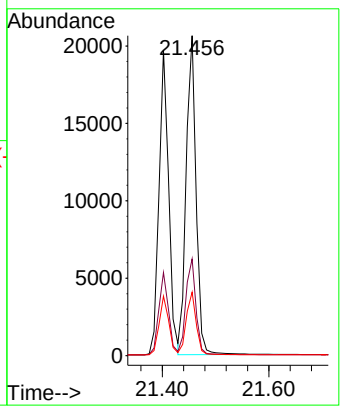


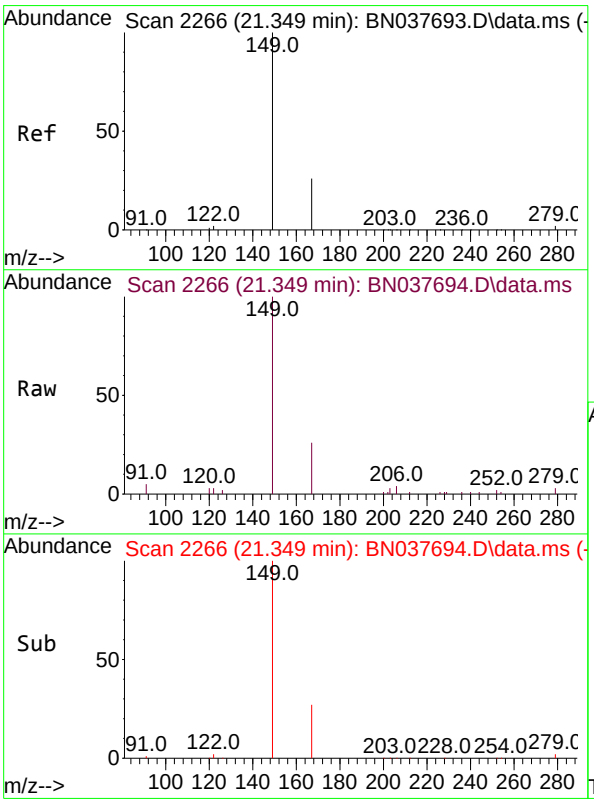

#33
Chrysene
Concen: 0.750 ng
RT: 21.456 min Scan# 2
Delta R.T. -0.000 min
Lab File: BN037694.D
Acq: 11 Sep 2025 11:44

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDICC0.8

Tgt Ion:228 Resp: 26737

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 228 | 100 | | |
| 226 | 30.2 | 23.5 | 35.3 |
| 229 | 19.8 | 15.9 | 23.9 |

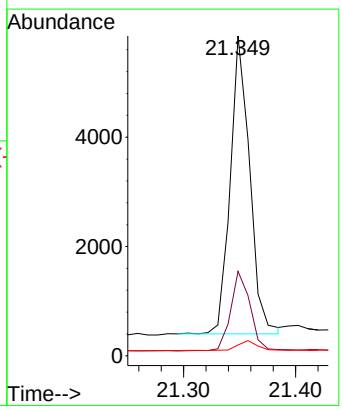


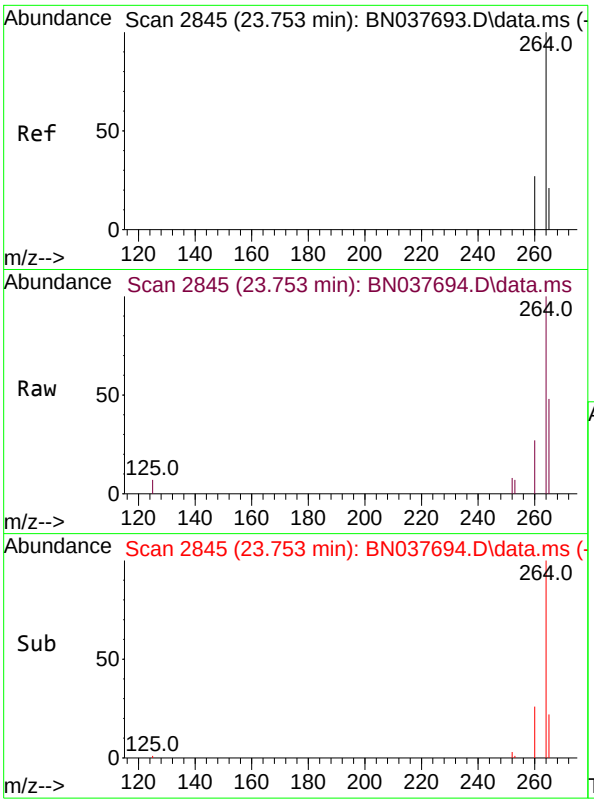




#34
Bis(2-ethylhexyl)phthalate
Concen: 0.667 ng
RT: 21.349 min Scan# 2266
Delta R.T. -0.000 min
Lab File: BN037694.D
Acq: 11 Sep 2025 11:44

Tgt Ion:149 Resp: 6579

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 149 | 100 | | |
| 167 | 27.1 | 20.8 | 31.2 |
| 279 | 3.3 | 3.3 | 4.9 |



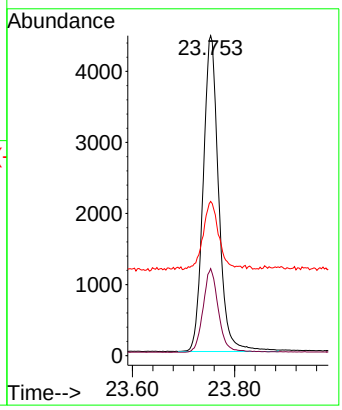


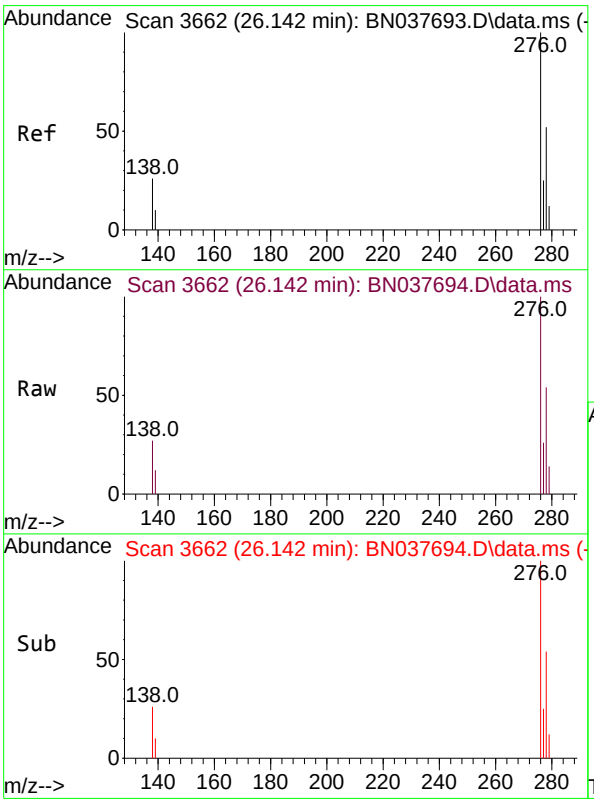

#35
Perylene-d12
Concen: 0.400 ng
RT: 23.753 min Scan# 28
Delta R.T. -0.000 min
Lab File: BN037694.D
Acq: 11 Sep 2025 11:44

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDICC0.8

Tgt Ion:264 Resp: 9336

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 264 | 100 | | |
| 260 | 27.2 | 21.8 | 32.8 |
| 265 | 48.2 | 39.4 | 59.2 |

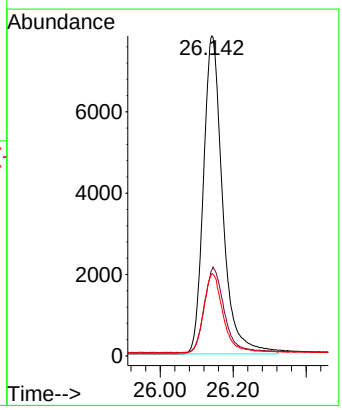


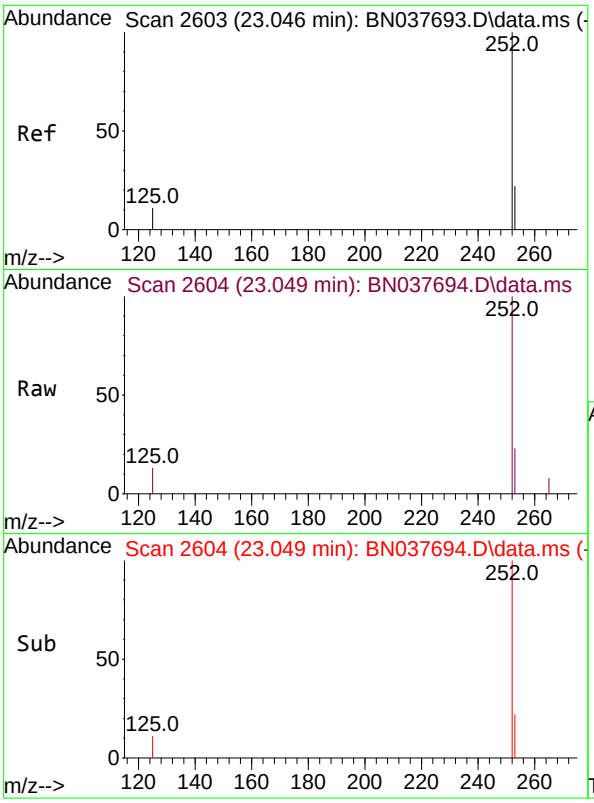




#36
Indeno(1,2,3-cd)pyrene
Concen: 0.729 ng
RT: 26.142 min Scan# 3662
Delta R.T. -0.000 min
Lab File: BN037694.D
Acq: 11 Sep 2025 11:44

Tgt Ion:276 Resp: 28614

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 276 | 100 | | |
| 138 | 27.5 | 21.9 | 32.9 |
| 277 | 25.0 | 20.1 | 30.1 |



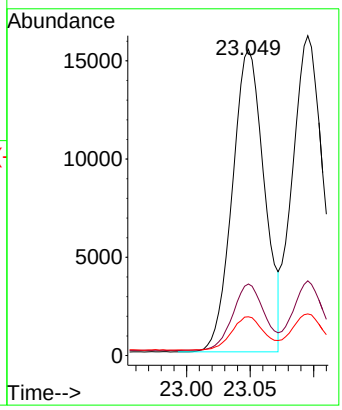


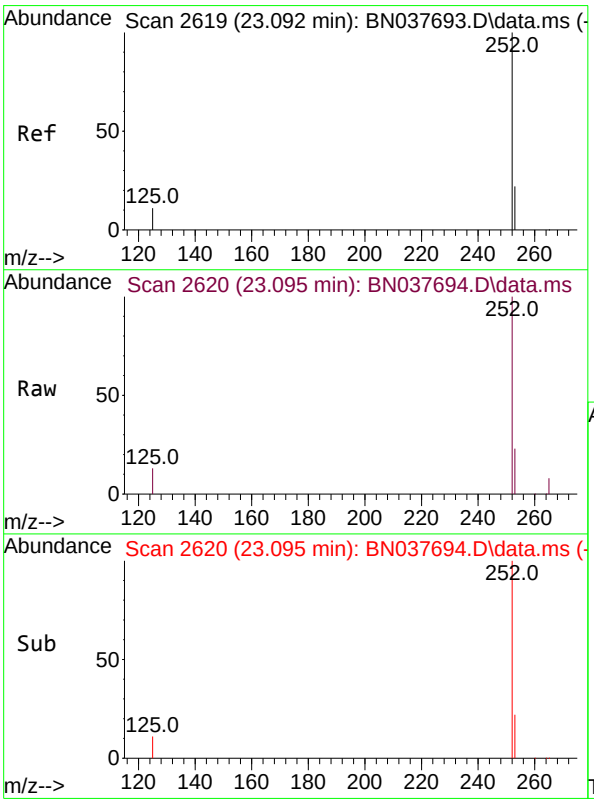

#37
Benzo(b)fluoranthene
Concen: 0.733 ng
RT: 23.049 min Scan# 2
Delta R.T. 0.003 min
Lab File: BN037694.D
Acq: 11 Sep 2025 11:44

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDICC0.8

Tgt Ion:252 Resp: 26965

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 23.4 | 19.4 | 29.2 |
| 125 | 12.7 | 11.2 | 16.8 |

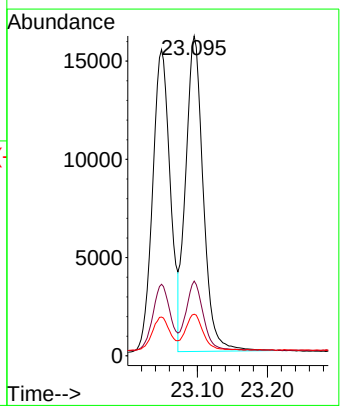


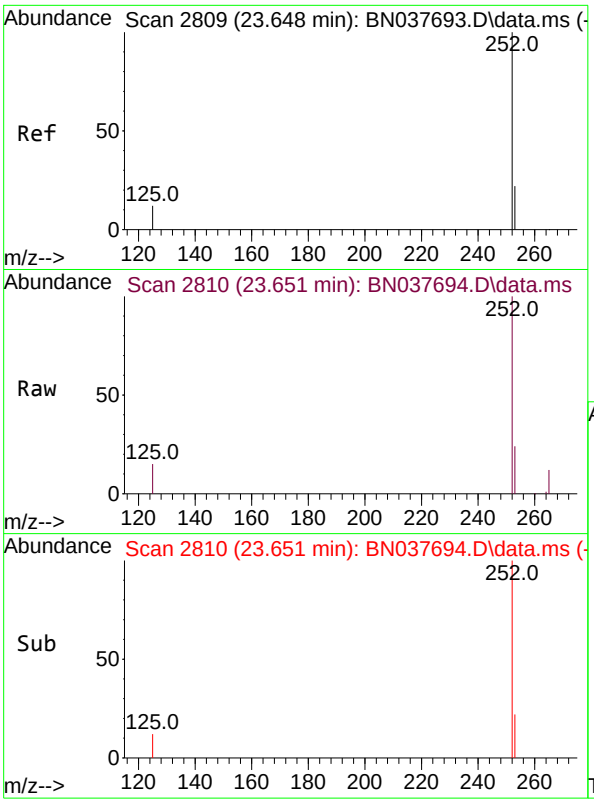




#38
Benzo(k)fluoranthene
Concen: 0.748 ng
RT: 23.095 min Scan# 2620
Delta R.T. 0.003 min
Lab File: BN037694.D
Acq: 11 Sep 2025 11:44

Tgt Ion:252 Resp: 28034

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 23.4 | 19.4 | 29.0 |
| 125 | 13.0 | 11.6 | 17.4 |



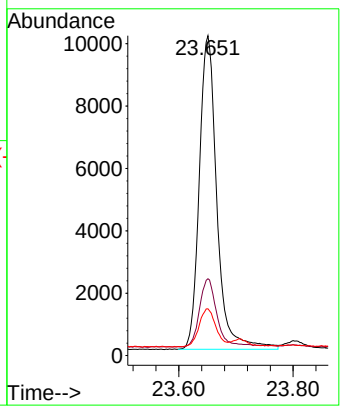


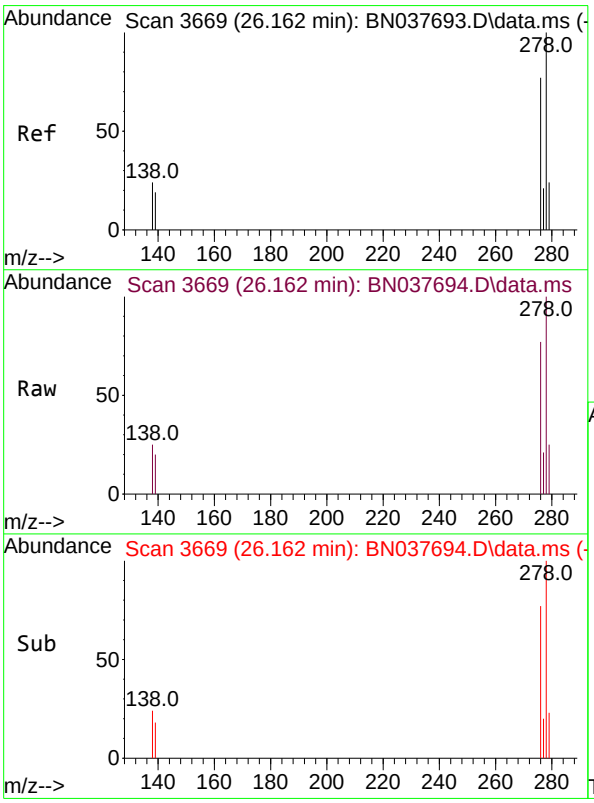

#39
Benzo(a)pyrene
Concen: 0.730 ng
RT: 23.651 min Scan# 28
Delta R.T. 0.003 min
Lab File: BN037694.D
Acq: 11 Sep 2025 11:44

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDICC0.8

Tgt Ion:252 Resp: 21496

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 24.0 | 20.8 | 31.2 |
| 125 | 14.6 | 13.9 | 20.9 |

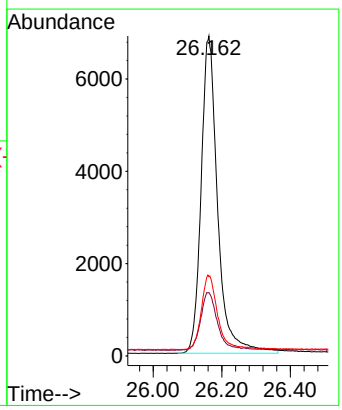


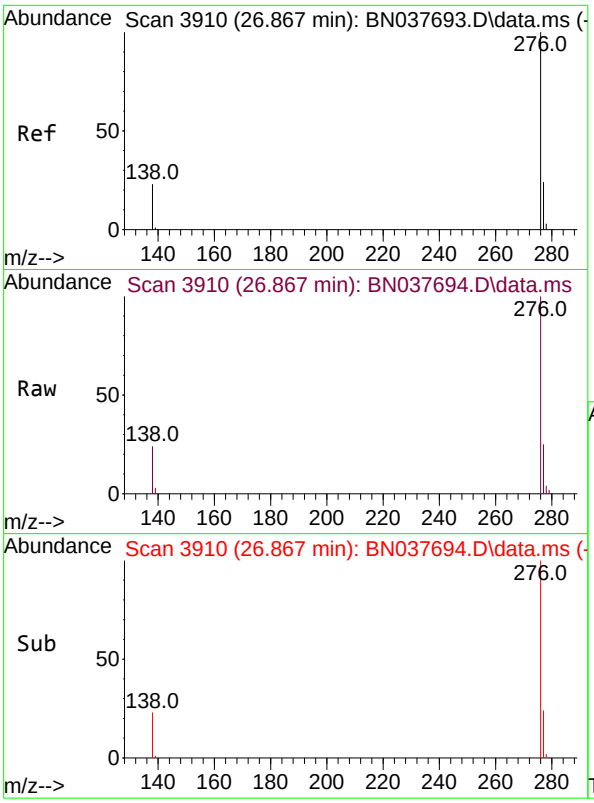




#40
Dibenzo(a,h)anthracene
Concen: 0.735 ng
RT: 26.162 min Scan# 3669
Delta R.T. -0.000 min
Lab File: BN037694.D
Acq: 11 Sep 2025 11:44

Tgt Ion:278 Resp: 23010

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 278 | 100 | | |
| 139 | 19.8 | 17.8 | 26.6 |
| 279 | 24.7 | 22.0 | 33.0 |



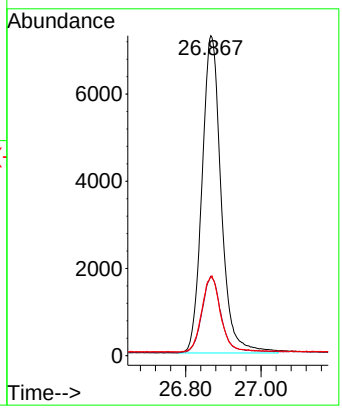



#41
Benzo(g,h,i)perylene
Concen: 0.731 ng
RT: 26.867 min Scan# 3
Delta R.T. -0.000 min
Lab File: BN037694.D
Acq: 11 Sep 2025 11:44

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDICC0.8

Tgt Ion:276 Resp: 25683

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 276 | 100 | | |
| 277 | 24.8 | 20.6 | 31.0 |
| 138 | 24.3 | 20.2 | 30.2 |



Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN091125\
Data File : BN037695.D
Acq On : 11 Sep 2025 12:20
Operator : RC/JU
Sample : SSTDICC1.6
Misc :
ALS Vial : 7 Sample Multiplier: 1

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDICC1.6

Quant Time: Sep 11 14:06:54 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN091125.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Sep 11 14:02:44 2025
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| Internal Standards | | | | | | | |
| 1) 1,4-Dichlorobenzene-d4 | 7.840 | 152 | 5277 | 0.400 | ng | | 0.00 |
| 7) Naphthalene-d8 | 10.648 | 136 | 13818 | 0.400 | ng | | 0.00 |
| 13) Acenaphthene-d10 | 14.495 | 164 | 6567 | 0.400 | ng | | 0.00 |
| 19) Phenanthrene-d10 | 17.236 | 188 | 11496 | 0.400 | ng | | 0.00 |
| 29) Chrysene-d12 | 21.420 | 240 | 9743 | 0.400 | ng | | 0.00 |
| 35) Perylene-d12 | 23.750 | 264 | 9111 | 0.400 | ng | | 0.00 |
| System Monitoring Compounds | | | | | | | |
| 4) 2-Fluorophenol | 5.399 | 112 | 19252 | 1.589 | ng | | 0.00 |
| 5) Phenol-d6 | 6.988 | 99 | 25180 | 1.603 | ng | | 0.00 |
| 8) Nitrobenzene-d5 | 8.993 | 82 | 16386 | 1.621 | ng | | 0.00 |
| 11) 2-Methylnaphthalene-d10 | 12.243 | 152 | 28843 | 1.576 | ng | | 0.00 |
| 14) 2,4,6-Tribromophenol | 15.982 | 330 | 2959 | 1.728 | ng | | 0.00 |
| 15) 2-Fluorobiphenyl | 13.116 | 172 | 44363 | 1.615 | ng | | 0.00 |
| 27) Fluoranthene-d10 | 19.267 | 212 | 43876 | 1.520 | ng | | 0.00 |
| 31) Terphenyl-d14 | 19.871 | 244 | 31656 | 1.601 | ng | | 0.00 |
| Target Compounds | | | | | | | Qvalue |
| 2) 1,4-Dioxane | 3.305 | 88 | 9125 | 1.660 | ng | | 98 |
| 3) n-Nitrosodimethylamine | 3.601 | 42 | 11726 | 1.633 | ng | # | 96 |
| 6) bis(2-Chloroethyl)ether | 7.255 | 93 | 22759 | 1.622 | ng | | 99 |
| 9) Naphthalene | 10.701 | 128 | 61726 | 1.634 | ng | | 99 |
| 10) Hexachlorobutadiene | 11.000 | 225 | 11208 | 1.640 | ng | # | 100 |
| 12) 2-Methylnaphthalene | 12.314 | 142 | 38501 | 1.648 | ng | | 99 |
| 16) Acenaphthylene | 14.206 | 152 | 49508 | 1.644 | ng | | 100 |
| 17) Acenaphthene | 14.559 | 154 | 33424 | 1.641 | ng | | 99 |
| 18) Fluorene | 15.535 | 166 | 40588 | 1.646 | ng | | 99 |
| 20) 4,6-Dinitro-2-methylph... | 15.610 | 198 | 1837 | 1.725 | ng | # | 46 |
| 21) 4-Bromophenyl-phenylether | 16.441 | 248 | 12511 | 1.669 | ng | | 98 |
| 22) Hexachlorobenzene | 16.553 | 284 | 14034 | 1.628 | ng | | 99 |
| 23) Atrazine | 16.702 | 200 | 7765 | 1.628 | ng | | 97 |
| 24) Pentachlorophenol | 16.888 | 266 | 3932 | 1.571 | ng | | 98 |
| 25) Phenanthrene | 17.285 | 178 | 59082 | 1.632 | ng | | 100 |
| 26) Anthracene | 17.372 | 178 | 52416 | 1.635 | ng | | 100 |
| 28) Fluoranthene | 19.299 | 202 | 64074 | 1.614 | ng | | 100 |
| 30) Pyrene | 19.661 | 202 | 62457 | 1.638 | ng | | 100 |
| 32) Benzo(a)anthracene | 21.402 | 228 | 54932 | 1.616 | ng | | 99 |
| 33) Chrysene | 21.447 | 228 | 58866 | 1.615 | ng | | 97 |
| 34) Bis(2-ethylhexyl)phtha... | 21.349 | 149 | 14814 | 1.470 | ng | # | 99 |
| 36) Indeno(1,2,3-cd)pyrene | 26.139 | 276 | 65254 | 1.705 | ng | | 100 |
| 37) Benzo(b)fluoranthene | 23.043 | 252 | 59639 | 1.662 | ng | | 95 |
| 38) Benzo(k)fluoranthene | 23.090 | 252 | 62123 | 1.698 | ng | | 96 |
| 39) Benzo(a)pyrene | 23.645 | 252 | 47897 | 1.667 | ng | # | 92 |
| 40) Dibenzo(a,h)anthracene | 26.159 | 278 | 53306 | 1.744 | ng | | 93 |
| 41) Benzo(g,h,i)perylene | 26.858 | 276 | 57151 | 1.666 | ng | | 97 |

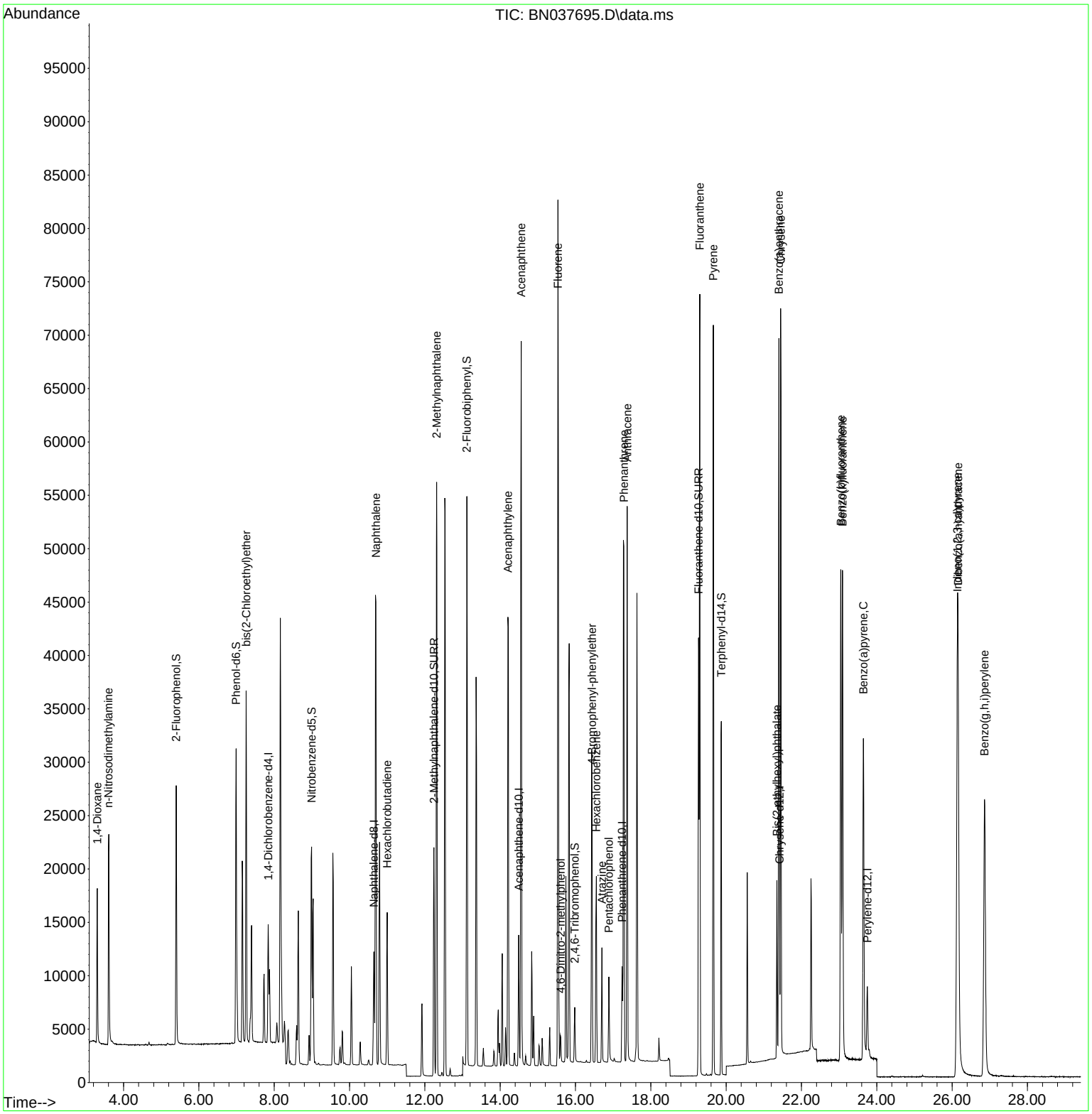
(#) = qualifier out of range (m) = manual integration (+) = signals summed

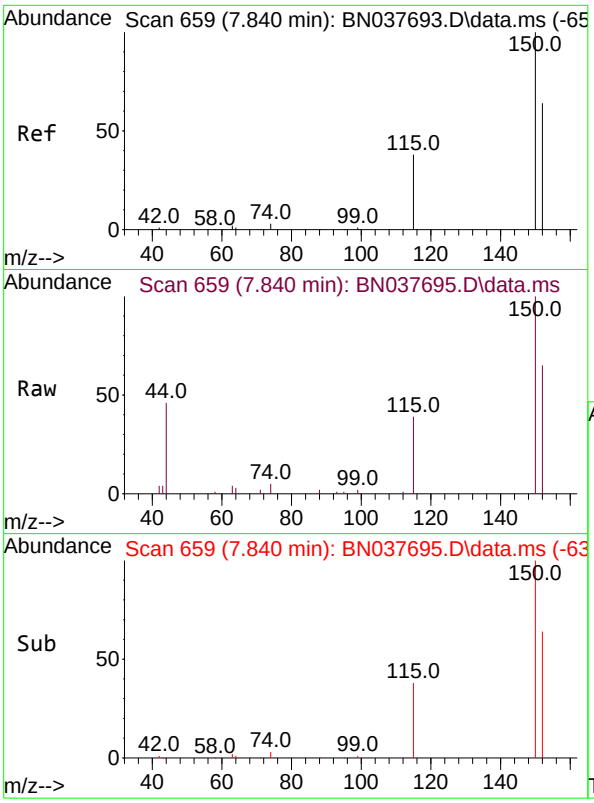
ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN091125\
Data File : BN037695.D
Acq On : 11 Sep 2025 12:20
Operator : RC/JU
Sample : SSTDICC1.6
Misc :
ALS Vial : 7 Sample Multiplier: 1

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDICC1.6

Quant Time: Sep 11 14:06:54 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN091125.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Sep 11 14:02:44 2025
Response via : Initial Calibration



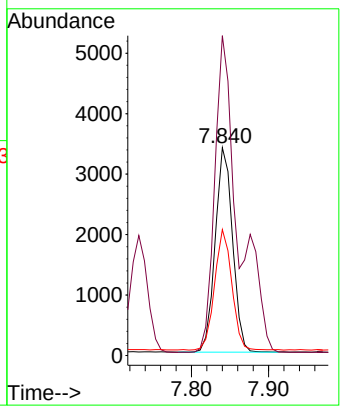


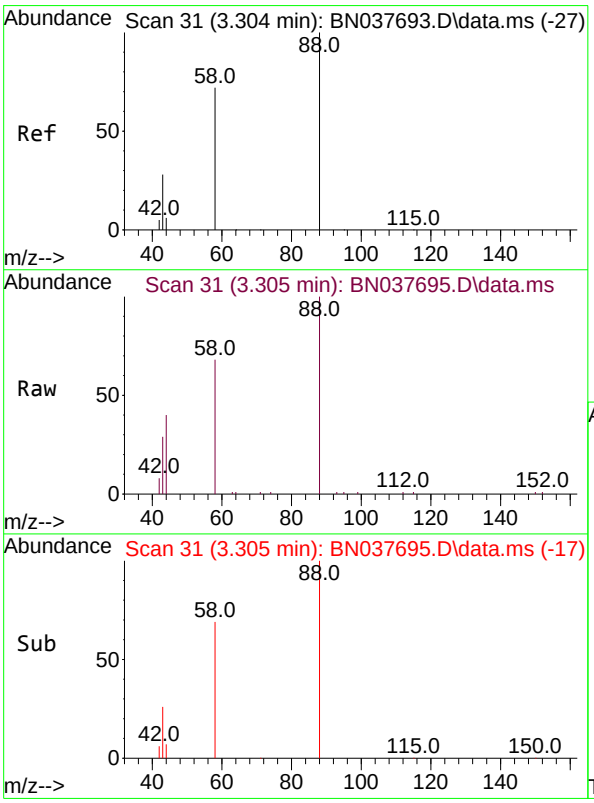

#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.840 min Scan# 6
Delta R.T. 0.000 min
Lab File: BN037695.D
Acq: 11 Sep 2025 12:20

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDICC1.6

Tgt Ion:152 Resp: 5277

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 150 | 153.9 | 124.5 | 186.7 |
| 115 | 60.6 | 49.2 | 73.8 |

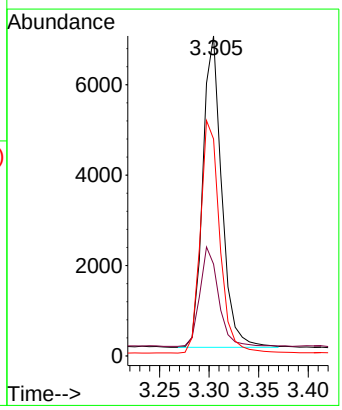


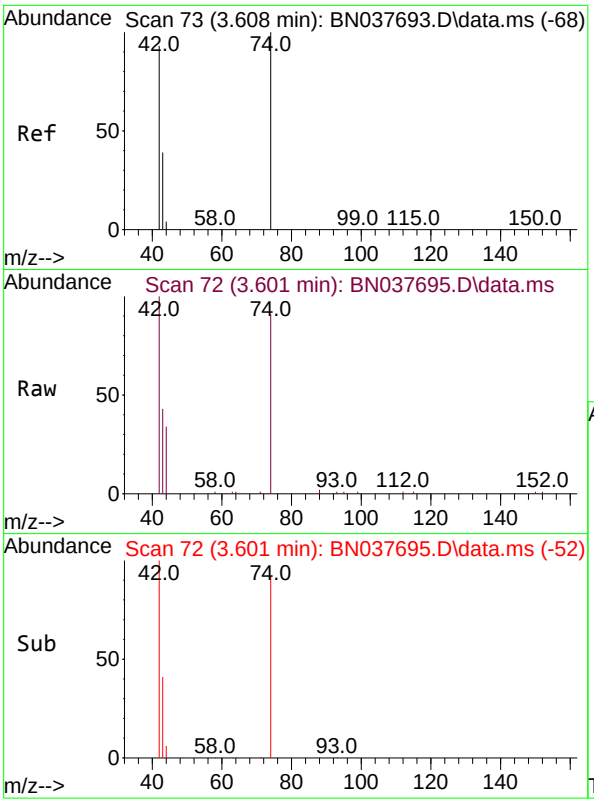




#2
1,4-Dioxane
Concen: 1.660 ng
RT: 3.305 min Scan# 31
Delta R.T. 0.000 min
Lab File: BN037695.D
Acq: 11 Sep 2025 12:20

Tgt Ion: 88 Resp: 9125

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 88 | 100 | | |
| 43 | 31.6 | 26.8 | 40.2 |
| 58 | 76.5 | 61.9 | 92.9 |



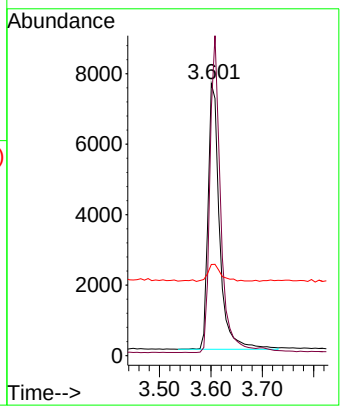


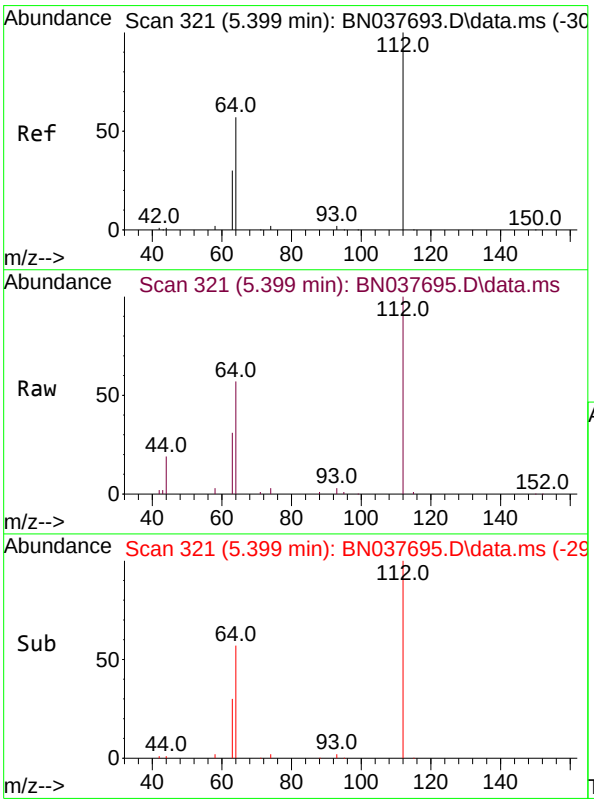

#3
n-Nitrosodimethylamine
Concen: 1.633 ng
RT: 3.601 min Scan# 7
Delta R.T. -0.007 min
Lab File: BN037695.D
Acq: 11 Sep 2025 12:20

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDICC1.6

Tgt Ion: 42 Resp: 11726

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 42 | 100 | | |
| 74 | 111.0 | 86.0 | 129.0 |
| 44 | 7.4 | 8.4 | 12.6# |

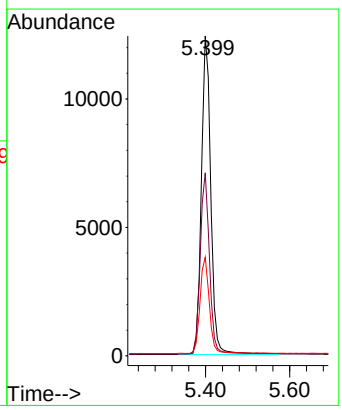


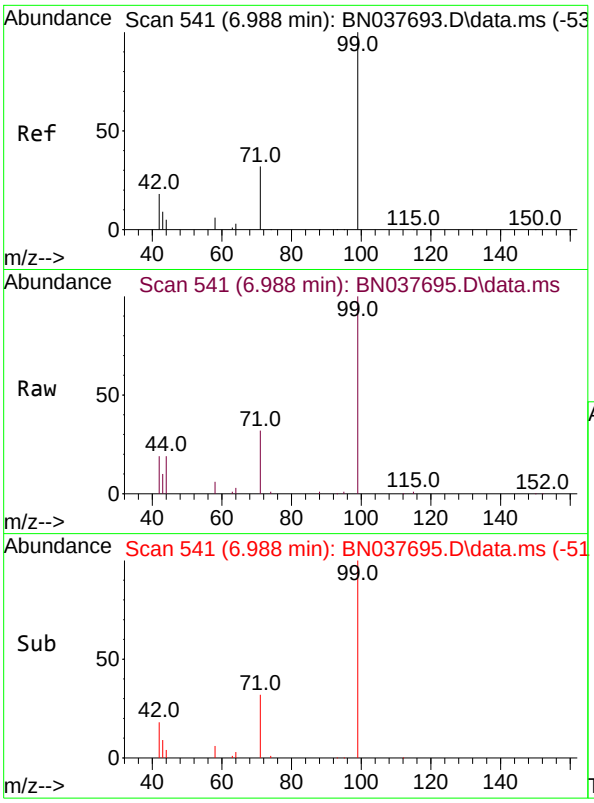




#4
2-Fluorophenol
Concen: 1.589 ng
RT: 5.399 min Scan# 321
Delta R.T. 0.000 min
Lab File: BN037695.D
Acq: 11 Sep 2025 12:20

Tgt Ion:112 Resp: 19252

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 112 | 100 | | |
| 64 | 56.0 | 44.9 | 67.3 |
| 63 | 29.9 | 24.7 | 37.1 |



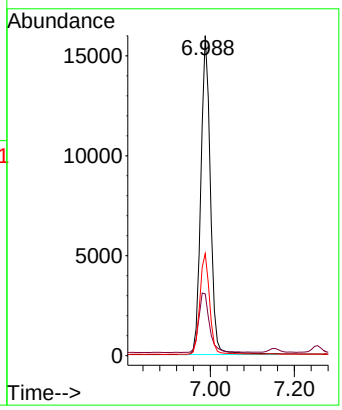


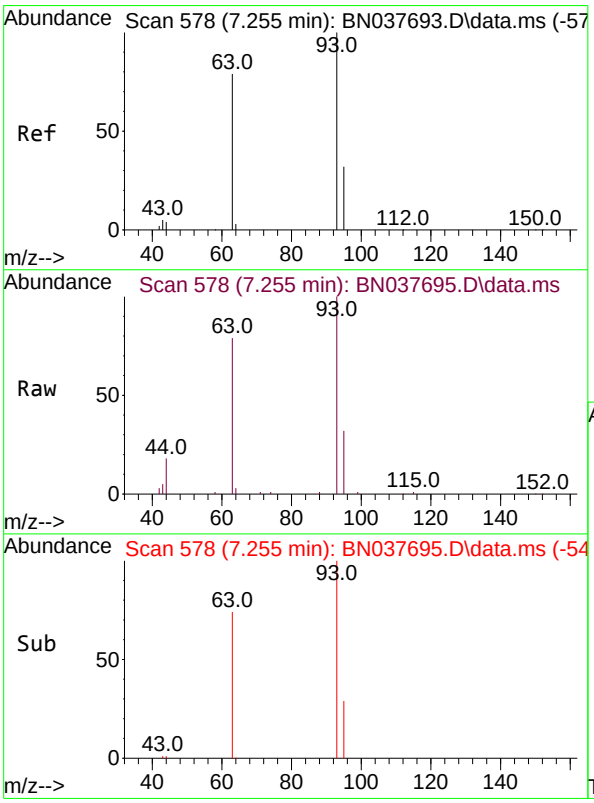

#5
Phenol-d6
Concen: 1.603 ng
RT: 6.988 min Scan# 54
Delta R.T. 0.000 min
Lab File: BN037695.D
Acq: 11 Sep 2025 12:20

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDICC1.6

Tgt Ion: 99 Resp: 25180

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 99 | 100 | | |
| 42 | 20.9 | 16.6 | 24.8 |
| 71 | 32.5 | 26.7 | 40.1 |

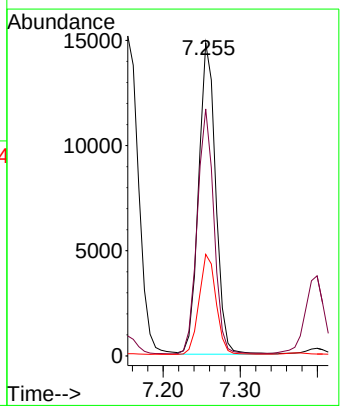


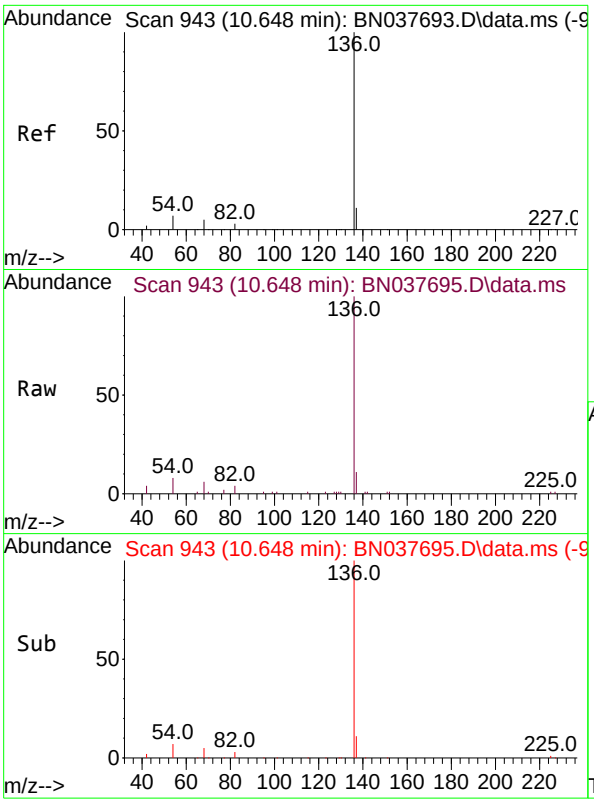




#6
bis(2-Chloroethyl)ether
Concen: 1.622 ng
RT: 7.255 min Scan# 578
Delta R.T. 0.000 min
Lab File: BN037695.D
Acq: 11 Sep 2025 12:20

Tgt Ion: 93 Resp: 22759

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 93 | 100 | | |
| 63 | 76.7 | 60.6 | 90.8 |
| 95 | 32.0 | 26.0 | 39.0 |



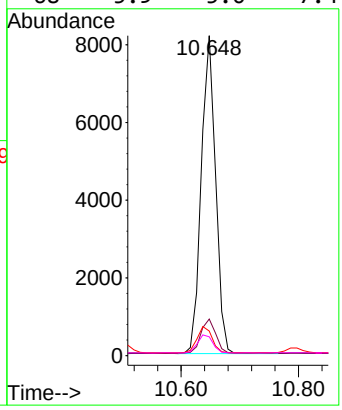


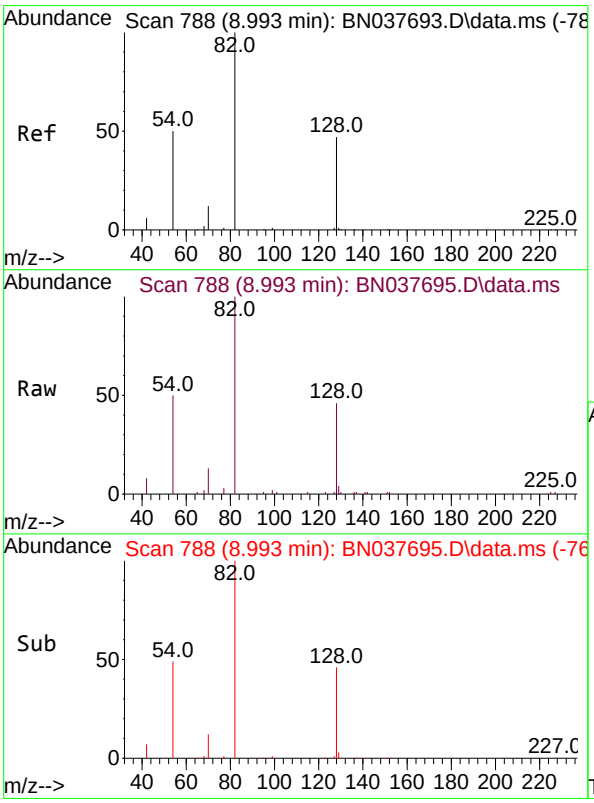

#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.648 min Scan# 94
Delta R.T. 0.000 min
Lab File: BN037695.D
Acq: 11 Sep 2025 12:20

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDICC1.6

Tgt Ion:136 Resp: 13818

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 136 | 100 | | |
| 137 | 11.4 | 9.1 | 13.7 |
| 54 | 7.7 | 6.3 | 9.5 |
| 68 | 5.9 | 5.0 | 7.4 |

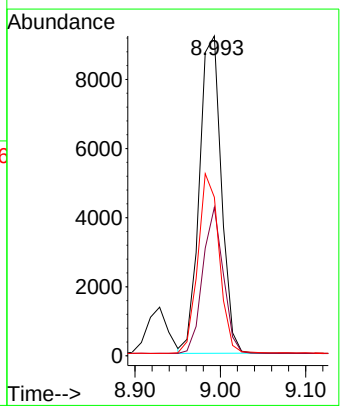


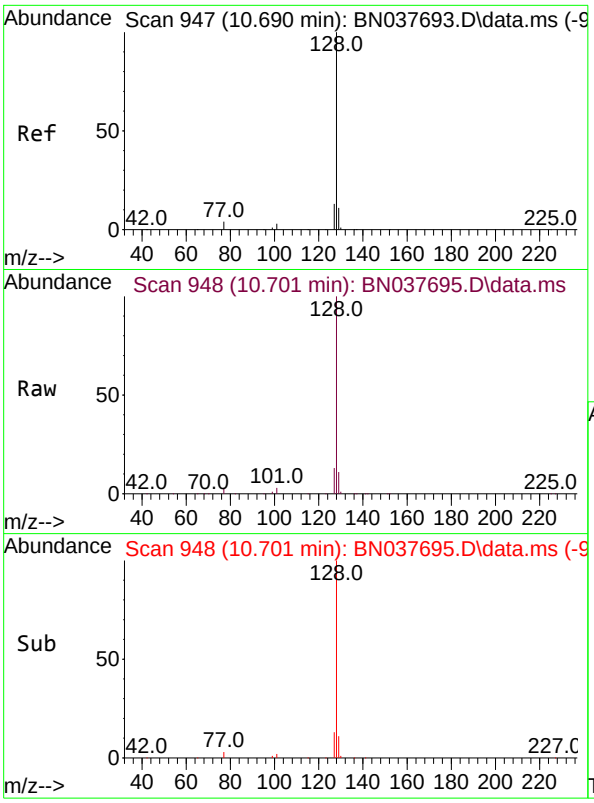




#8
Nitrobenzene-d5
Concen: 1.621 ng
RT: 8.993 min Scan# 788
Delta R.T. 0.000 min
Lab File: BN037695.D
Acq: 11 Sep 2025 12:20

Tgt Ion: 82 Resp: 16386

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 82 | 100 | | |
| 128 | 46.4 | 38.3 | 57.5 |
| 54 | 49.6 | 41.4 | 62.2 |



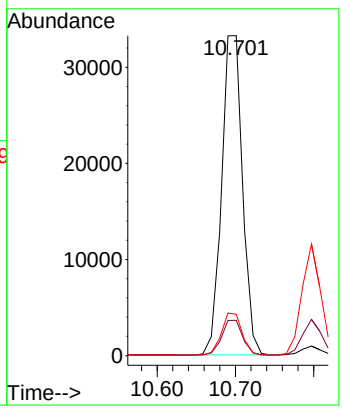


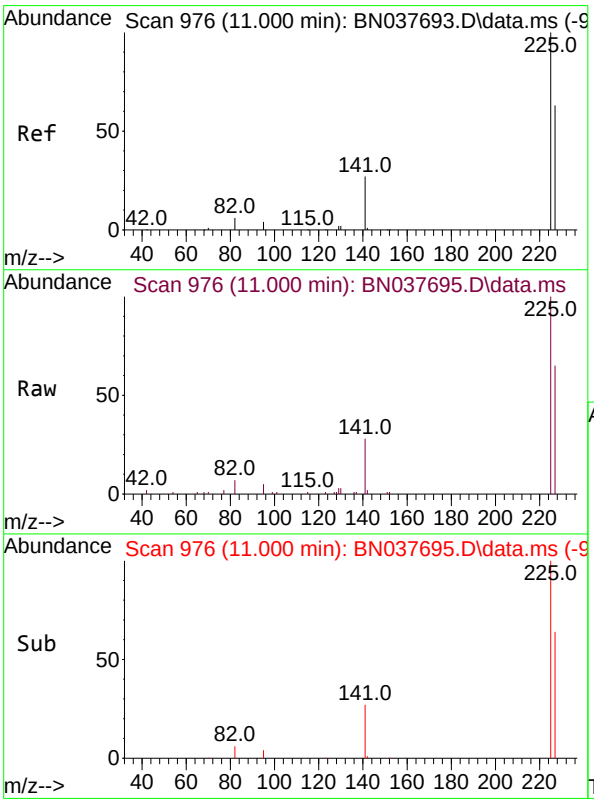

#9
Naphthalene
Concen: 1.634 ng
RT: 10.701 min Scan# 94
Delta R.T. 0.011 min
Lab File: BN037695.D
Acq: 11 Sep 2025 12:20

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDICC1.6

Tgt Ion:128 Resp: 61726

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 128 | 100 | | |
| 129 | 11.0 | 9.1 | 13.7 |
| 127 | 12.9 | 10.9 | 16.3 |

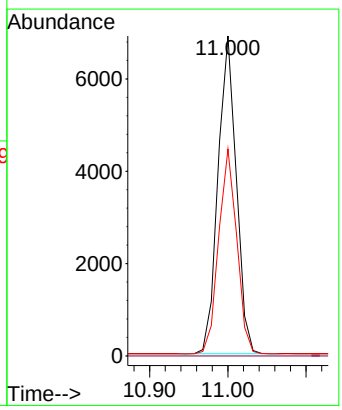


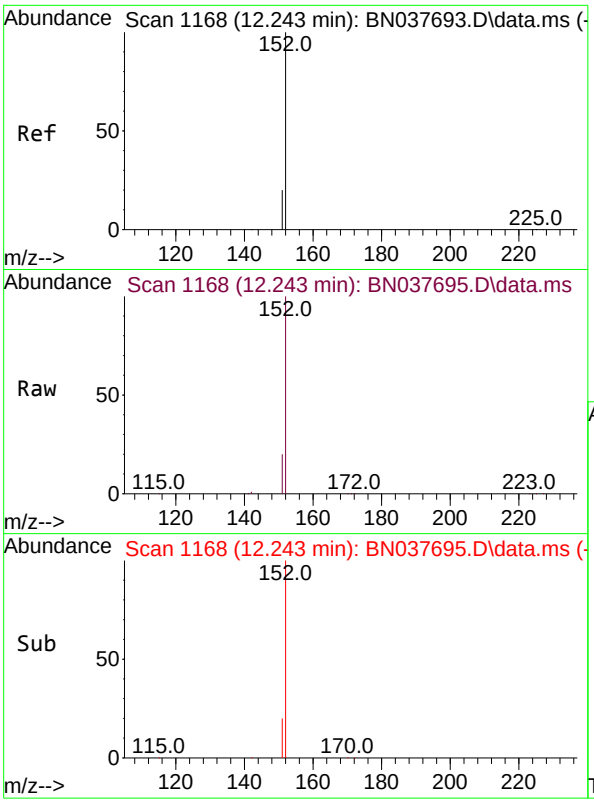




#10
Hexachlorobutadiene
Concen: 1.640 ng
RT: 11.000 min Scan# 976
Delta R.T. 0.000 min
Lab File: BN037695.D
Acq: 11 Sep 2025 12:20

Tgt Ion:225 Resp: 11208

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 225 | 100 | | |
| 223 | 0.0 | 0.0 | 0.0 |
| 227 | 63.7 | 50.9 | 76.3 |



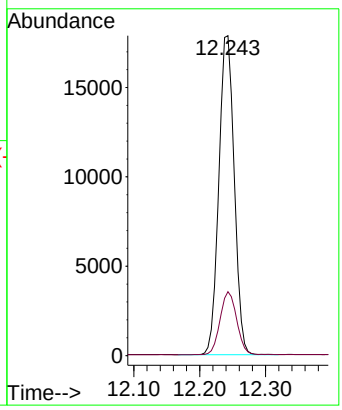


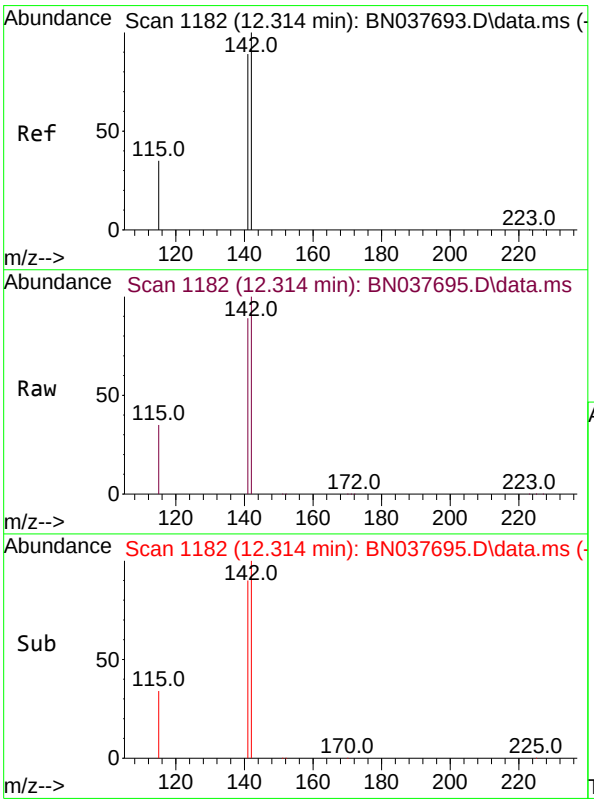

#11
2-Methylnaphthalene-d10
Concen: 1.576 ng
RT: 12.243 min Scan# 11
Delta R.T. 0.000 min
Lab File: BN037695.D
Acq: 11 Sep 2025 12:20

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDICC1.6

Tgt Ion:152 Resp: 28843

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

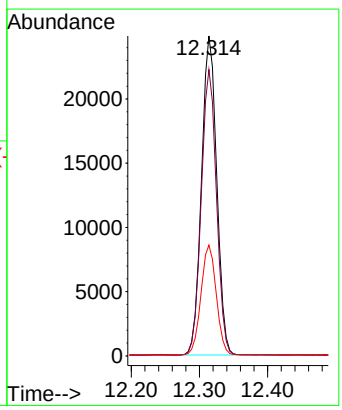


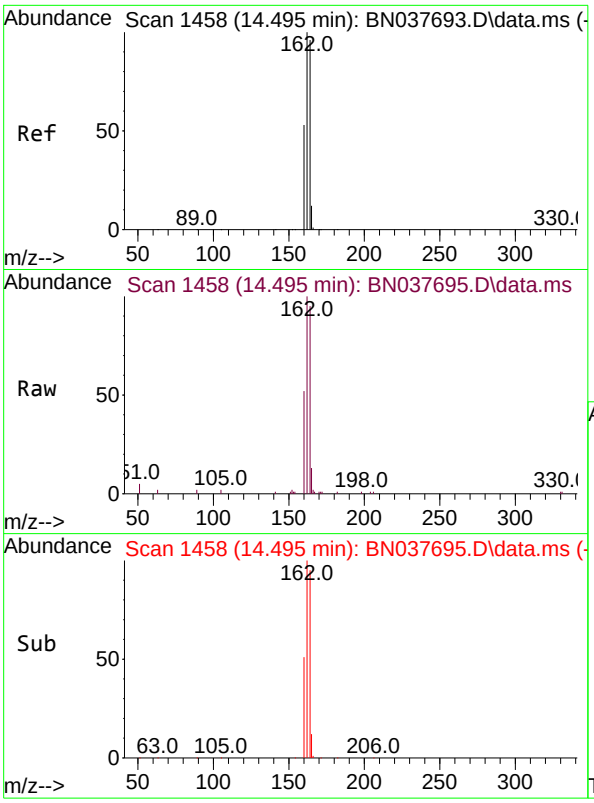




#12
2-Methylnaphthalene
Concen: 1.648 ng
RT: 12.314 min Scan# 1182
Delta R.T. 0.000 min
Lab File: BN037695.D
Acq: 11 Sep 2025 12:20

Tgt Ion:142 Resp: 38501

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 142 | 100 | | |
| 141 | 89.5 | 71.6 | 107.4 |
| 115 | 34.6 | 28.6 | 43.0 |



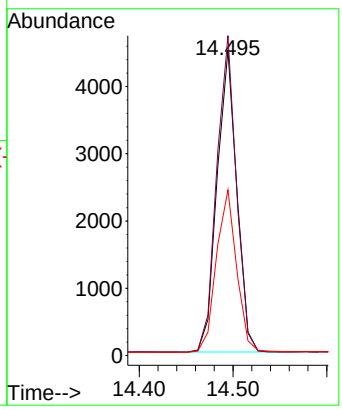


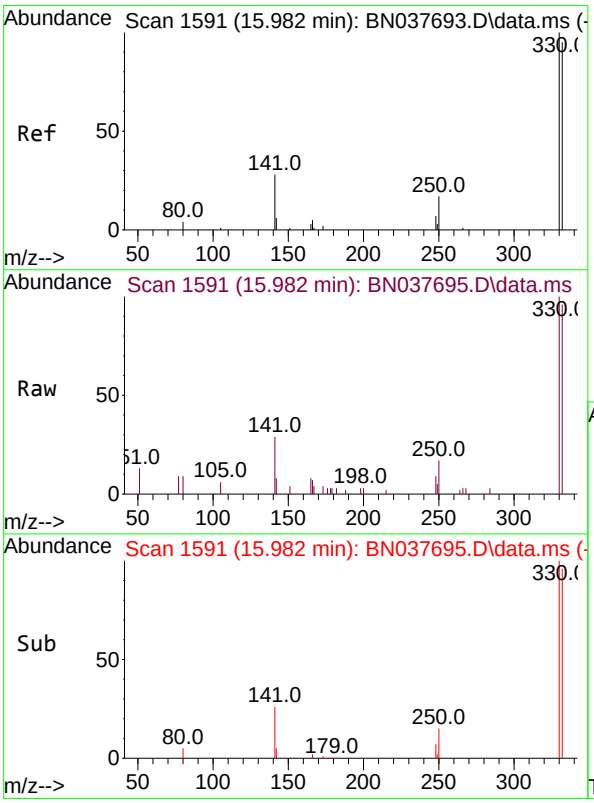

#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.495 min Scan# 14
Delta R.T. 0.000 min
Lab File: BN037695.D
Acq: 11 Sep 2025 12:20

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDICC1.6

Tgt Ion:164 Resp: 6567

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 164 | 100 | | |
| 162 | 104.8 | 83.1 | 124.7 |
| 160 | 54.2 | 44.3 | 66.5 |

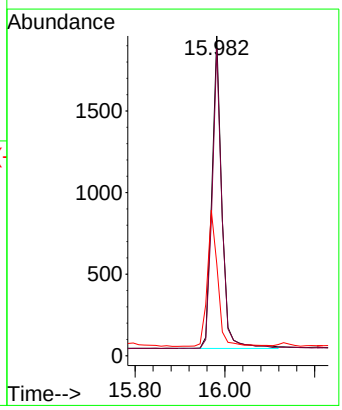


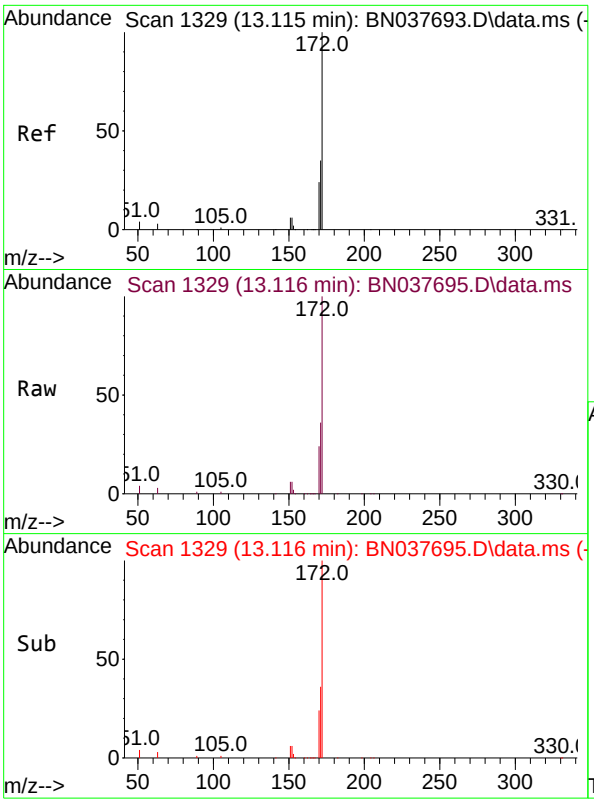




#14
2,4,6-Tribromophenol
Concen: 1.728 ng
RT: 15.982 min Scan# 1591
Delta R.T. -0.000 min
Lab File: BN037695.D
Acq: 11 Sep 2025 12:20

Tgt Ion:330 Resp: 2959

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 330 | 100 | | |
| 332 | 95.0 | 75.3 | 112.9 |
| 141 | 45.3 | 35.0 | 52.4 |



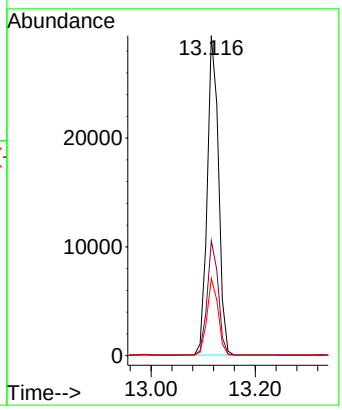


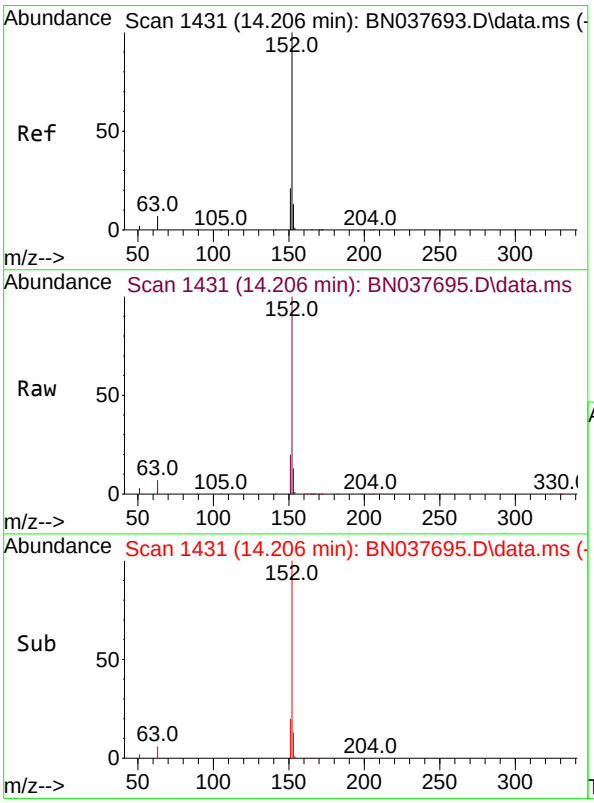

#15
2-Fluorobiphenyl
Concen: 1.615 ng
RT: 13.116 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN037695.D
Acq: 11 Sep 2025 12:20

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDICC1.6

Tgt Ion:172 Resp: 44363

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 172 | 100 | | |
| 171 | 35.9 | 28.6 | 43.0 |
| 170 | 24.2 | 19.8 | 29.8 |

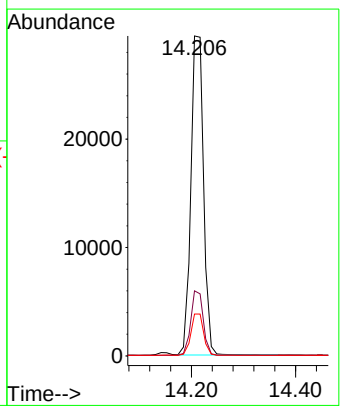


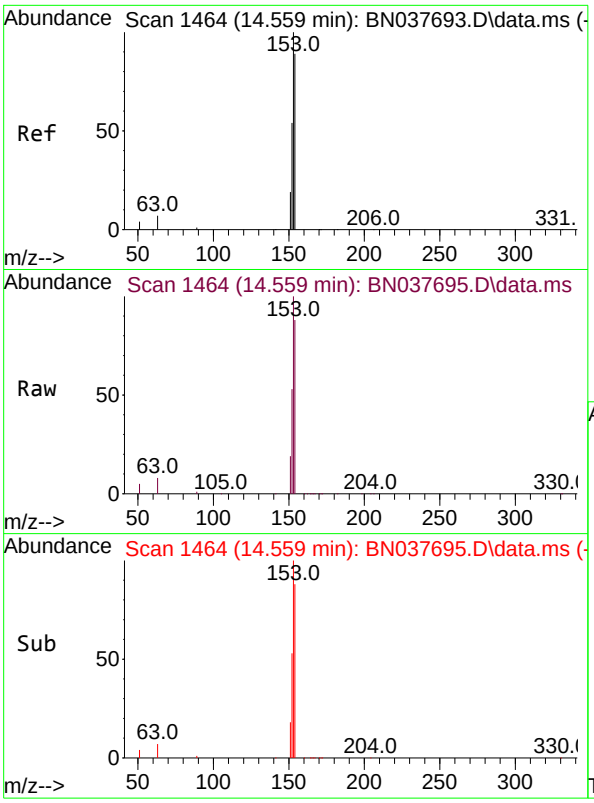




#16
Acenaphthylene
Concen: 1.644 ng
RT: 14.206 min Scan# 1431
Delta R.T. 0.000 min
Lab File: BN037695.D
Acq: 11 Sep 2025 12:20

Tgt Ion:152 Resp: 49508

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 151 | 19.9 | 16.2 | 24.2 |
| 153 | 13.0 | 10.4 | 15.6 |



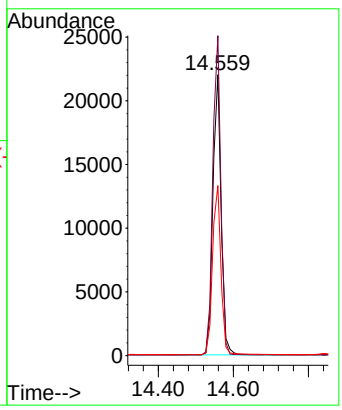


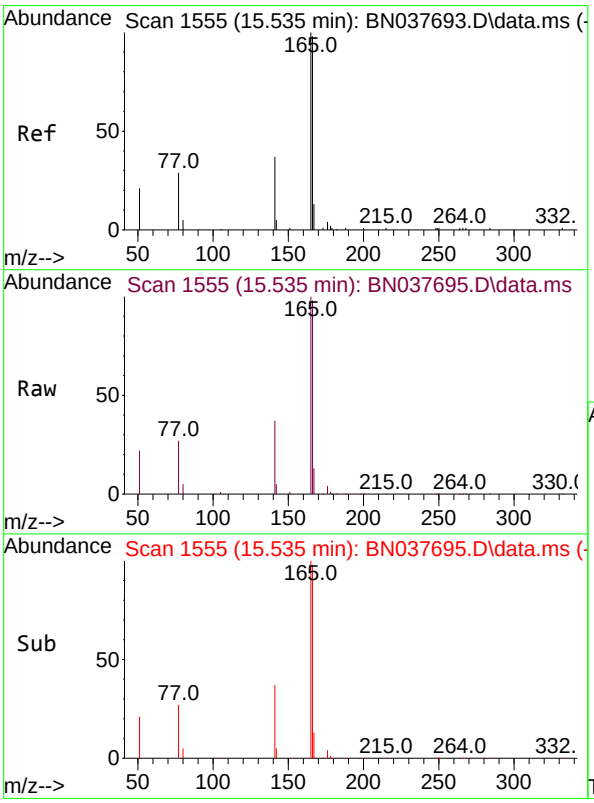

#17
Acenaphthene
Concen: 1.641 ng
RT: 14.559 min Scan# 14
Delta R.T. 0.000 min
Lab File: BN037695.D
Acq: 11 Sep 2025 12:20

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDICC1.6

Tgt Ion:154 Resp: 33424

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 154 | 100 | | |
| 153 | 111.9 | 89.8 | 134.8 |
| 152 | 61.8 | 50.2 | 75.2 |

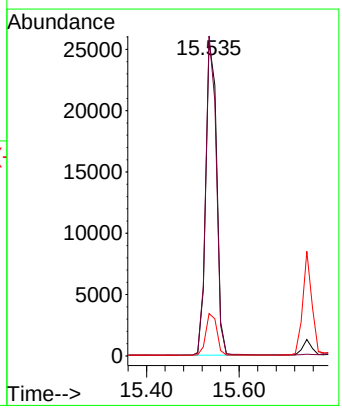


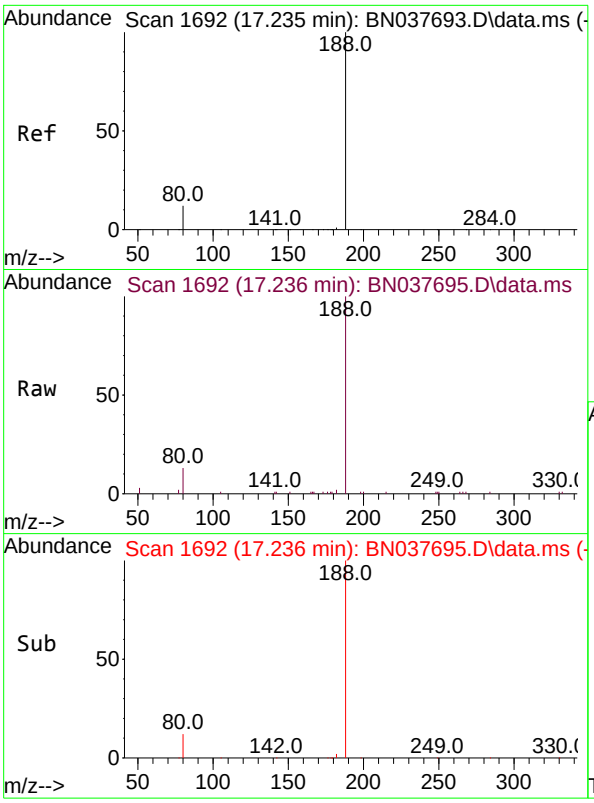




#18
Fluorene
Concen: 1.646 ng
RT: 15.535 min Scan# 1555
Delta R.T. 0.000 min
Lab File: BN037695.D
Acq: 11 Sep 2025 12:20

Tgt Ion:166 Resp: 40588

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 166 | 100 | | |
| 165 | 98.2 | 79.6 | 119.4 |
| 167 | 13.5 | 10.6 | 16.0 |



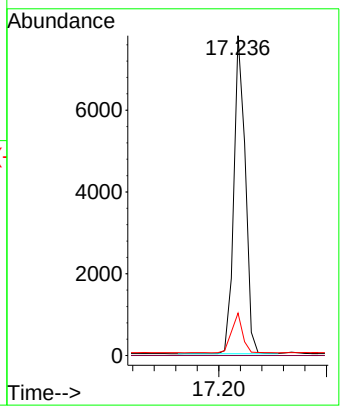


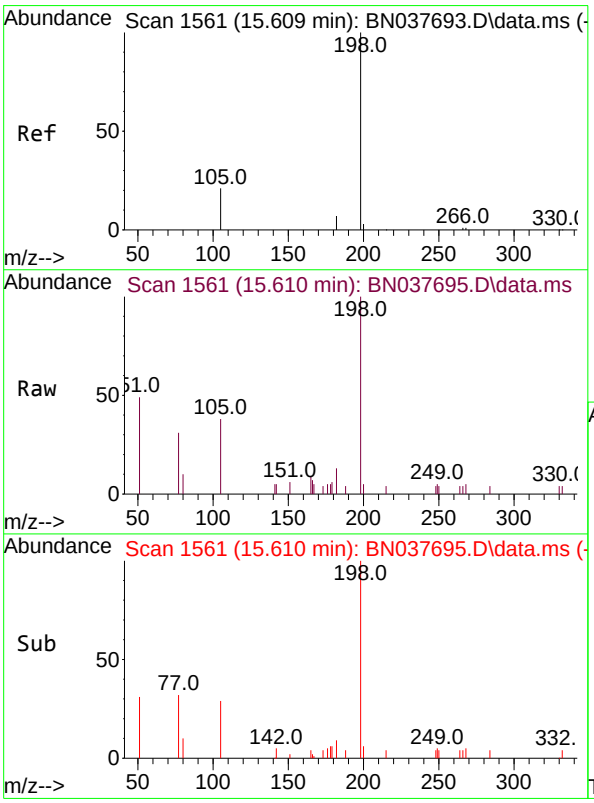

#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.236 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN037695.D
Acq: 11 Sep 2025 12:20

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDICC1.6

Tgt Ion:188 Resp: 11496

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 188 | 100 | | |
| 94 | 0.0 | 0.0 | 0.0 |
| 80 | 13.3 | 10.6 | 15.8 |

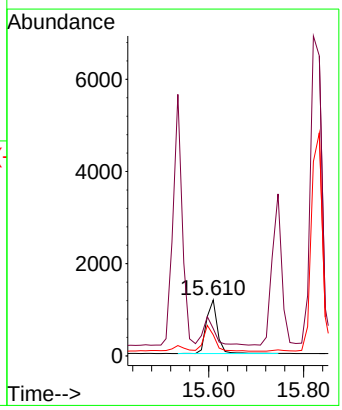


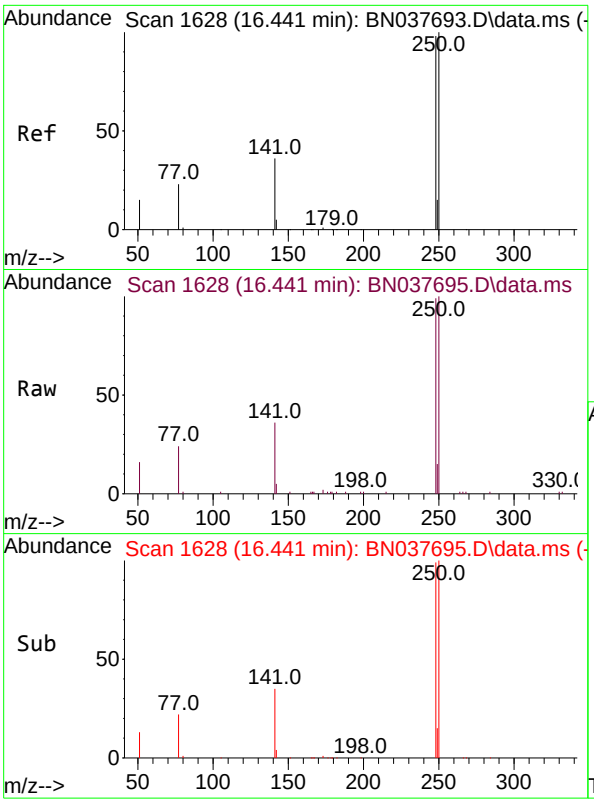




#20
4,6-Dinitro-2-methylphenol
Concen: 1.725 ng
RT: 15.610 min Scan# 1561
Delta R.T. 0.001 min
Lab File: BN037695.D
Acq: 11 Sep 2025 12:20

Tgt Ion:198 Resp: 1837

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 198 | 100 | | |
| 51 | 48.7 | 95.1 | 142.7# |
| 105 | 37.6 | 53.8 | 80.6# |



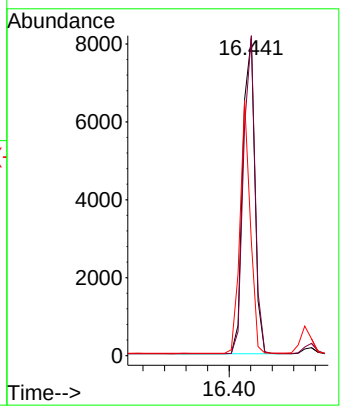


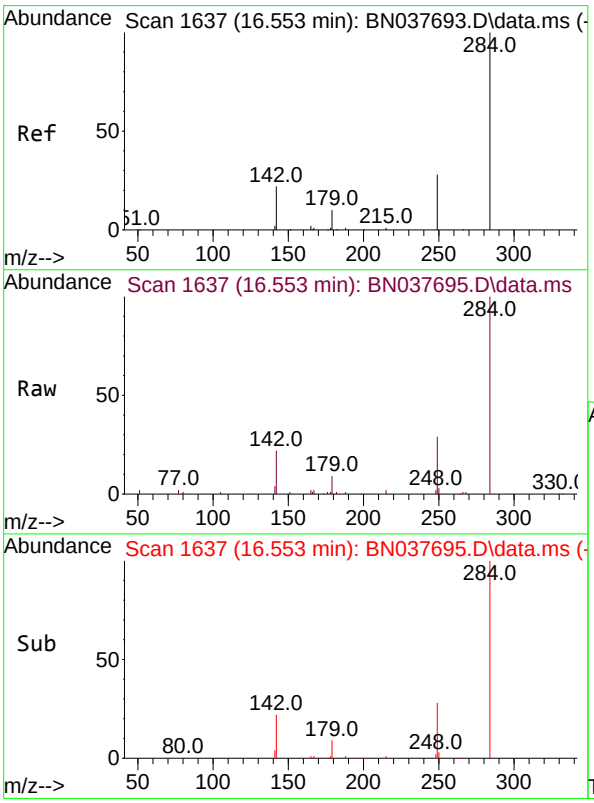

#21
4-Bromophenyl-phenylether
Concen: 1.669 ng
RT: 16.441 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN037695.D
Acq: 11 Sep 2025 12:20

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDICC1.6

Tgt Ion:248 Resp: 12511

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 248 | 100 | | |
| 250 | 100.8 | 81.5 | 122.3 |
| 141 | 36.0 | 30.8 | 46.2 |

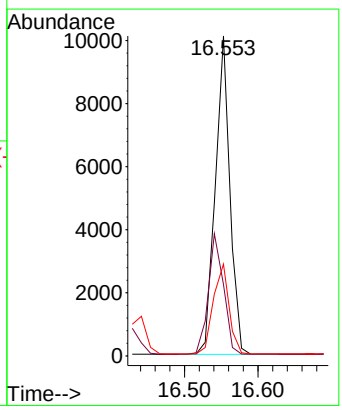


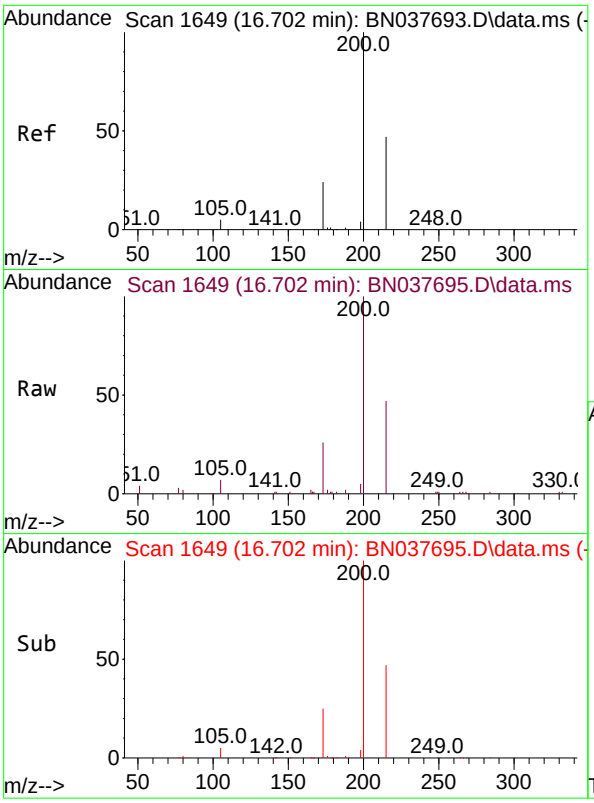




#22
Hexachlorobenzene
Concen: 1.628 ng
RT: 16.553 min Scan# 1637
Delta R.T. 0.000 min
Lab File: BN037695.D
Acq: 11 Sep 2025 12:20

Tgt Ion:284 Resp: 14034

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 284 | 100 | | |
| 142 | 39.1 | 30.9 | 46.3 |
| 249 | 30.3 | 24.8 | 37.2 |



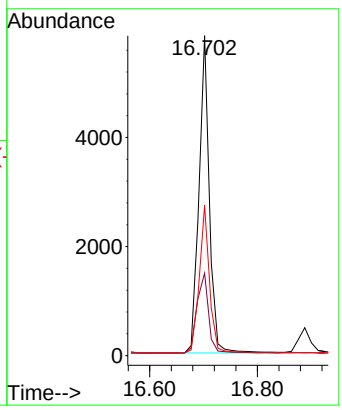


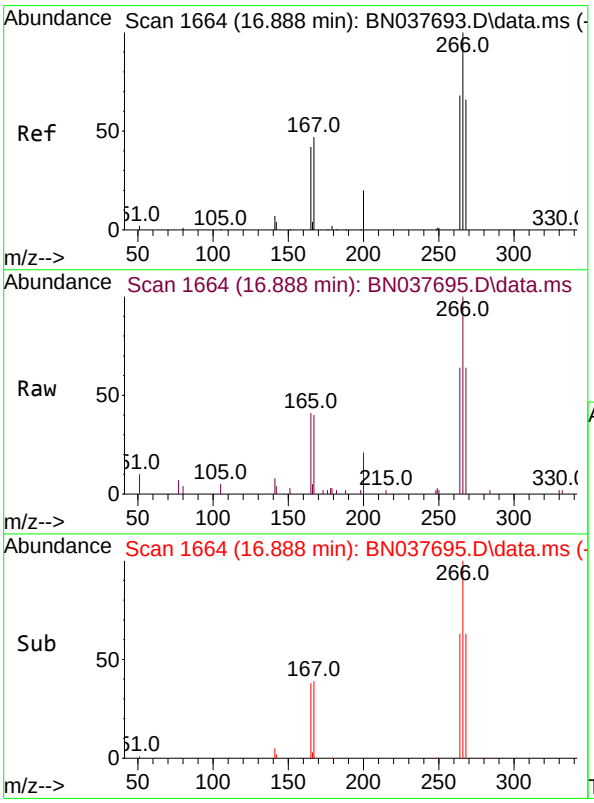

#23
Atrazine
Concen: 1.628 ng
RT: 16.702 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN037695.D
Acq: 11 Sep 2025 12:20

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDICC1.6

Tgt Ion:200 Resp: 7765

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 200 | 100 | | |
| 173 | 25.8 | 21.4 | 32.2 |
| 215 | 47.0 | 39.2 | 58.8 |

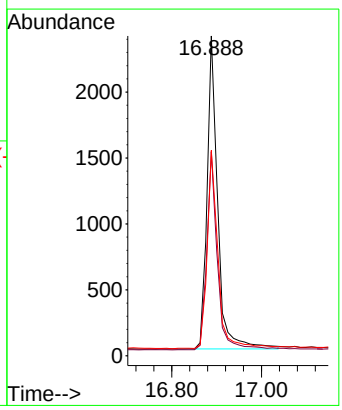


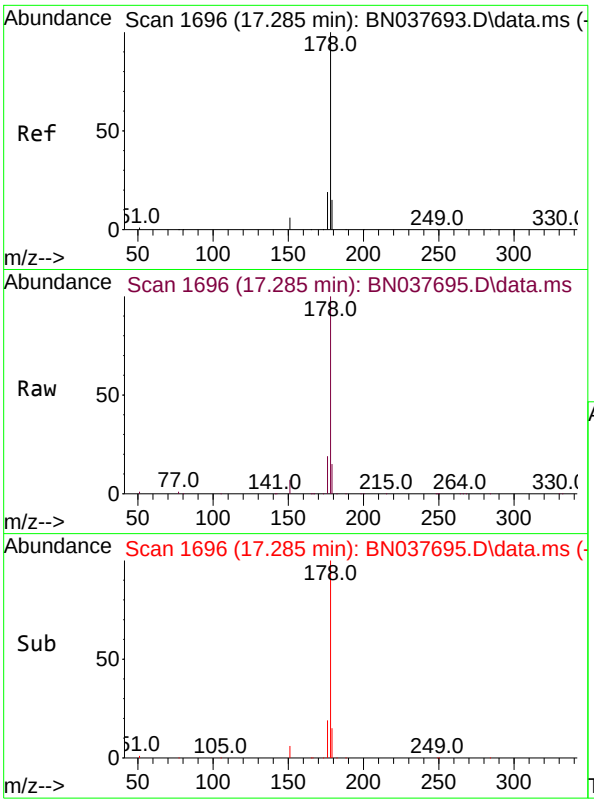




#24
Pentachlorophenol
Concen: 1.571 ng
RT: 16.888 min Scan# 1664
Delta R.T. 0.000 min
Lab File: BN037695.D
Acq: 11 Sep 2025 12:20

Tgt Ion:266 Resp: 3932

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 266 | 100 | | |
| 264 | 63.1 | 51.6 | 77.4 |
| 268 | 65.1 | 53.2 | 79.8 |



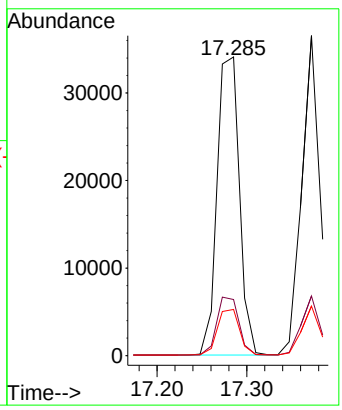


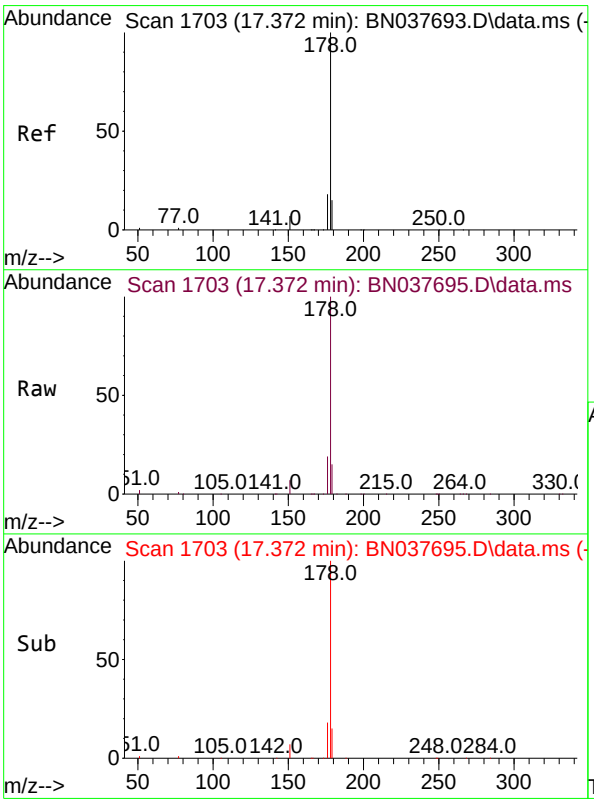

#25
Phenanthrene
Concen: 1.632 ng
RT: 17.285 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN037695.D
Acq: 11 Sep 2025 12:20

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDICC1.6

Tgt Ion:178 Resp: 59082

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 178 | 100 | | |
| 176 | 19.3 | 15.3 | 22.9 |
| 179 | 15.2 | 12.2 | 18.2 |

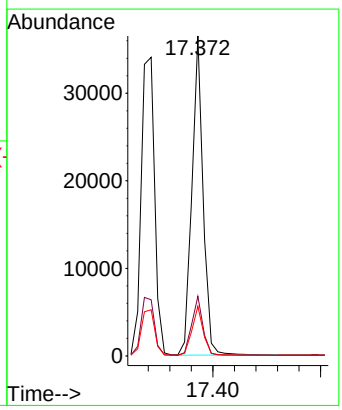


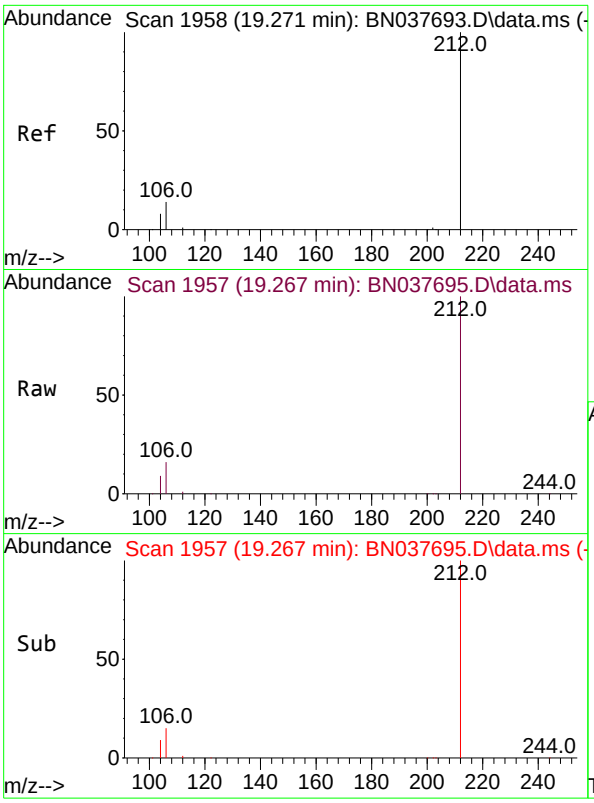




#26
Anthracene
Concen: 1.635 ng
RT: 17.372 min Scan# 1703
Delta R.T. 0.000 min
Lab File: BN037695.D
Acq: 11 Sep 2025 12:20

Tgt Ion:178 Resp: 52416

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 178 | 100 | | |
| 176 | 18.5 | 14.6 | 22.0 |
| 179 | 15.2 | 12.2 | 18.4 |



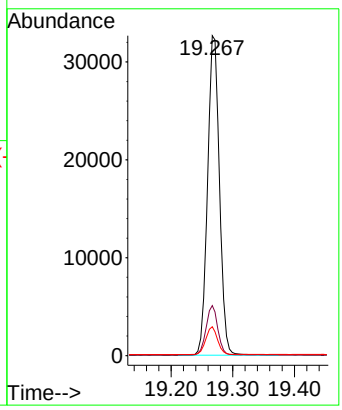


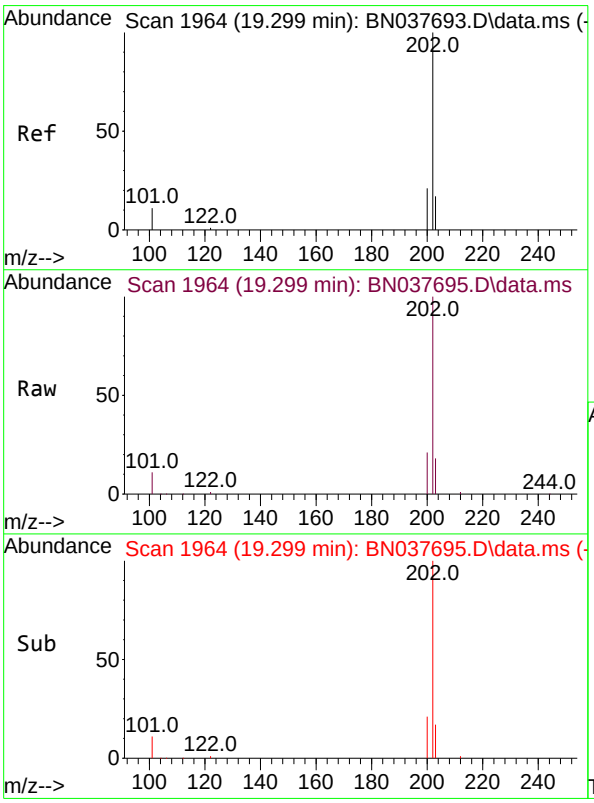

#27
Fluoranthene-d10
Concen: 1.520 ng
RT: 19.267 min Scan# 19
Delta R.T. -0.005 min
Lab File: BN037695.D
Acq: 11 Sep 2025 12:20

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDICC1.6

Tgt Ion:212 Resp: 43876

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 212 | 100 | | |
| 106 | 15.2 | 12.2 | 18.2 |
| 104 | 8.6 | 6.9 | 10.3 |

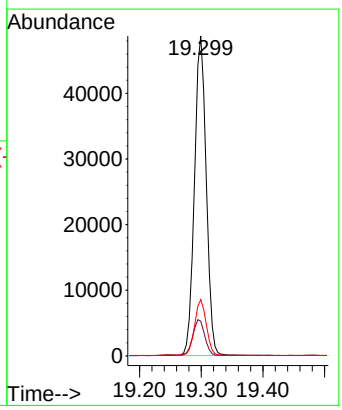


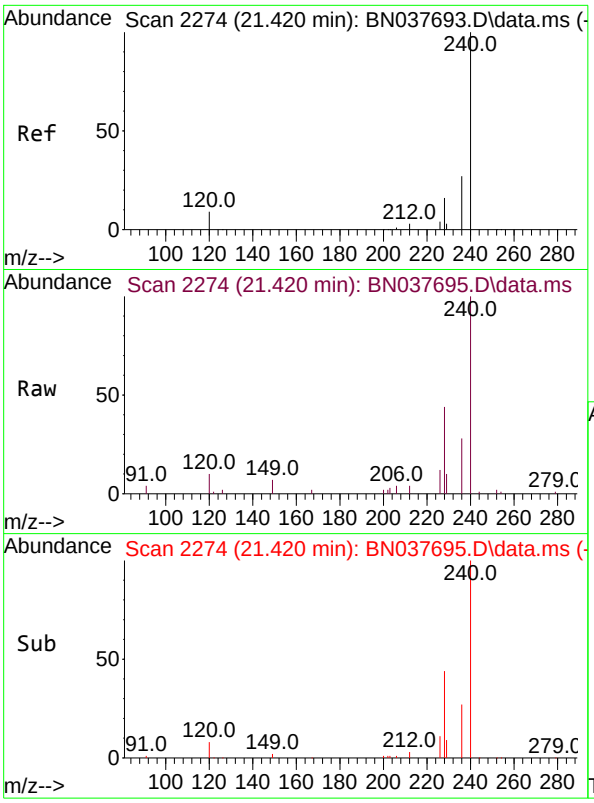




#28
Fluoranthene
Concen: 1.614 ng
RT: 19.299 min Scan# 1964
Delta R.T. 0.000 min
Lab File: BN037695.D
Acq: 11 Sep 2025 12:20

Tgt Ion:202 Resp: 64074

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 202 | 100 | | |
| 101 | 11.6 | 9.3 | 13.9 |
| 203 | 17.3 | 13.7 | 20.5 |



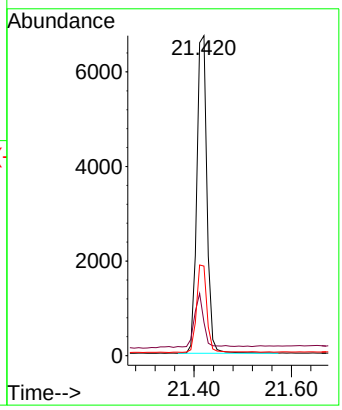


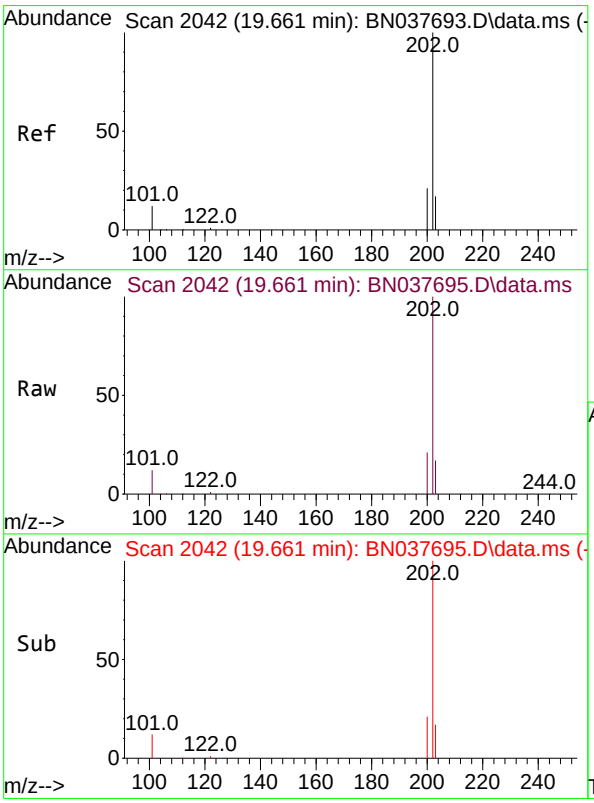

#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.420 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN037695.D
Acq: 11 Sep 2025 12:20

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDICC1.6

Tgt Ion:240 Resp: 9743

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 240 | 100 | | |
| 120 | 10.4 | 9.2 | 13.8 |
| 236 | 28.0 | 22.6 | 33.8 |

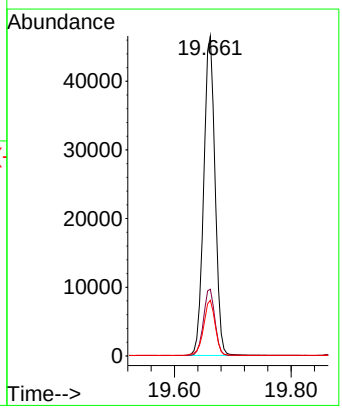


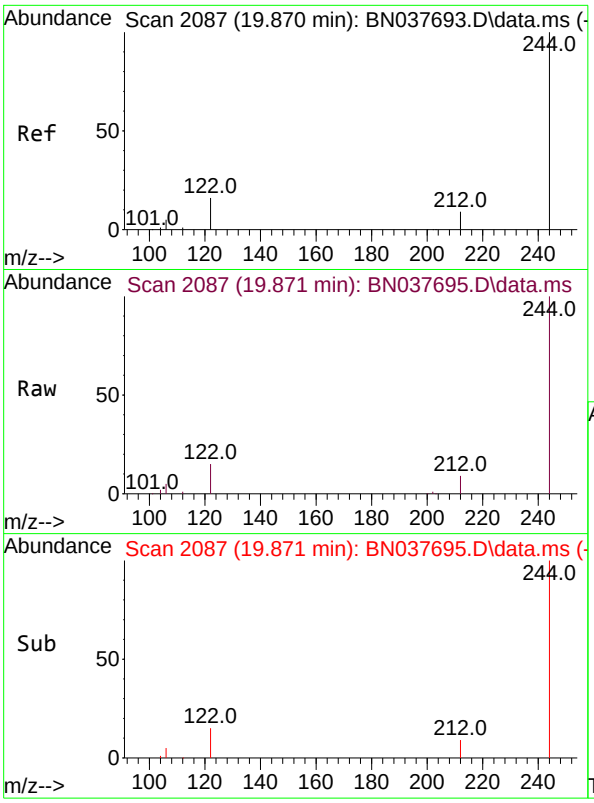




#30
Pyrene
Concen: 1.638 ng
RT: 19.661 min Scan# 2042
Delta R.T. 0.000 min
Lab File: BN037695.D
Acq: 11 Sep 2025 12:20

Tgt Ion:202 Resp: 62457

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 202 | 100 | | |
| 200 | 20.9 | 16.8 | 25.2 |
| 203 | 17.8 | 14.3 | 21.5 |



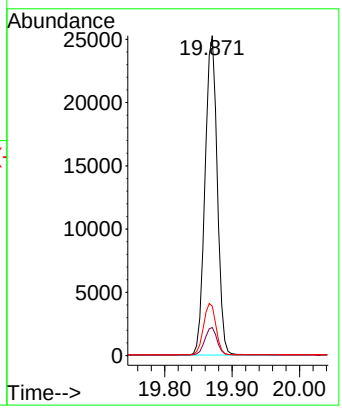


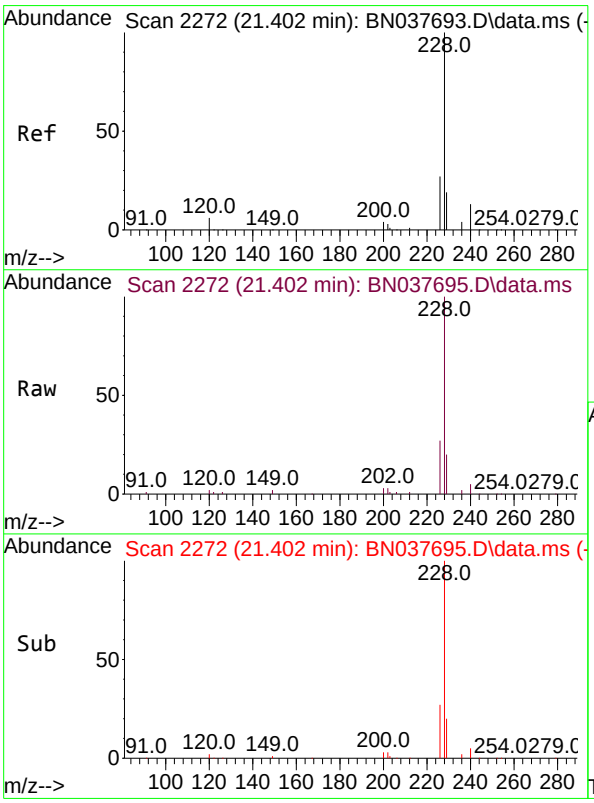

#31
Terphenyl-d14
Concen: 1.601 ng
RT: 19.871 min Scan# 20
Delta R.T. 0.000 min
Lab File: BN037695.D
Acq: 11 Sep 2025 12:20

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDICC1.6

Tgt Ion:244 Resp: 31656

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 244 | 100 | | |
| 212 | 8.8 | 7.5 | 11.3 |
| 122 | 15.5 | 13.2 | 19.8 |

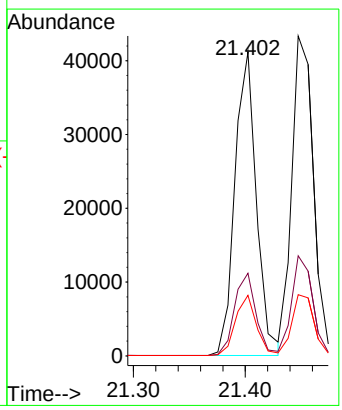


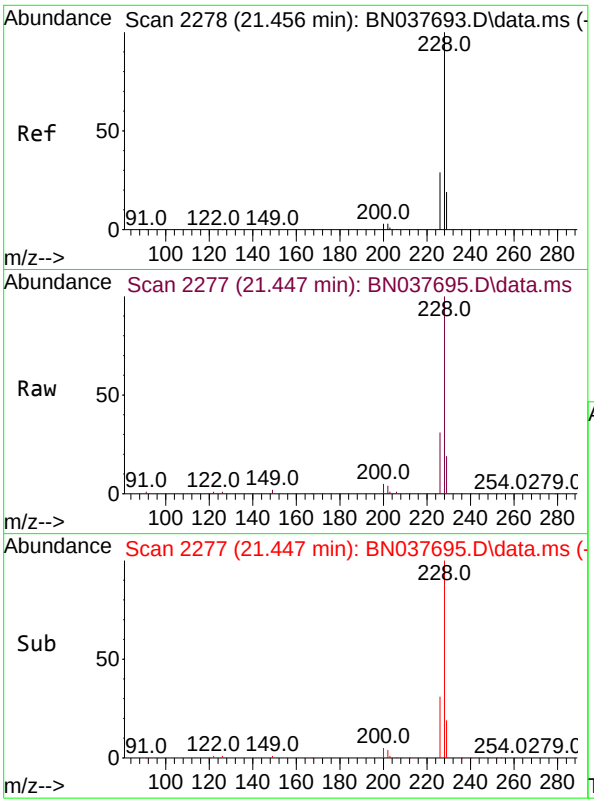




#32
Benzo(a)anthracene
Concen: 1.616 ng
RT: 21.402 min Scan# 2272
Delta R.T. 0.000 min
Lab File: BN037695.D
Acq: 11 Sep 2025 12:20

Tgt Ion:228 Resp: 54932

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 228 | 100 | | |
| 226 | 27.2 | 22.2 | 33.2 |
| 229 | 19.9 | 15.8 | 23.6 |



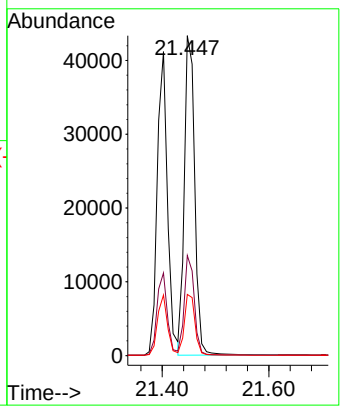


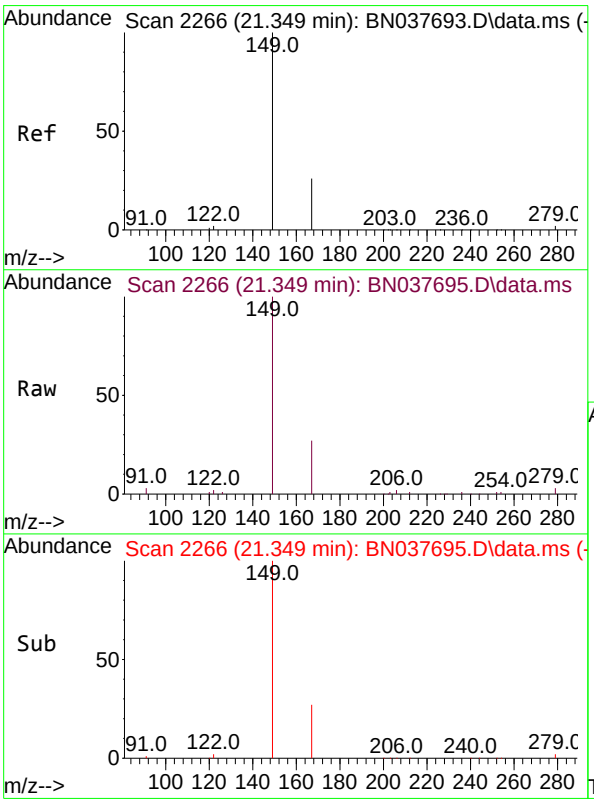

#33
Chrysene
Concen: 1.615 ng
RT: 21.447 min Scan# 2
Delta R.T. -0.009 min
Lab File: BN037695.D
Acq: 11 Sep 2025 12:20

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDICC1.6

Tgt Ion:228 Resp: 58866

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 228 | 100 | | |
| 226 | 31.3 | 23.5 | 35.3 |
| 229 | 19.1 | 15.9 | 23.9 |

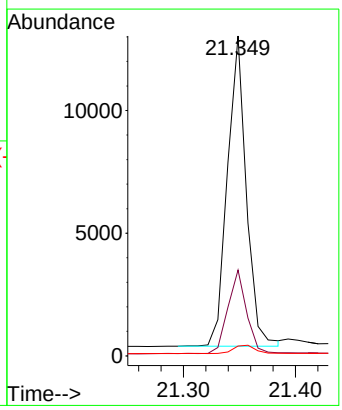


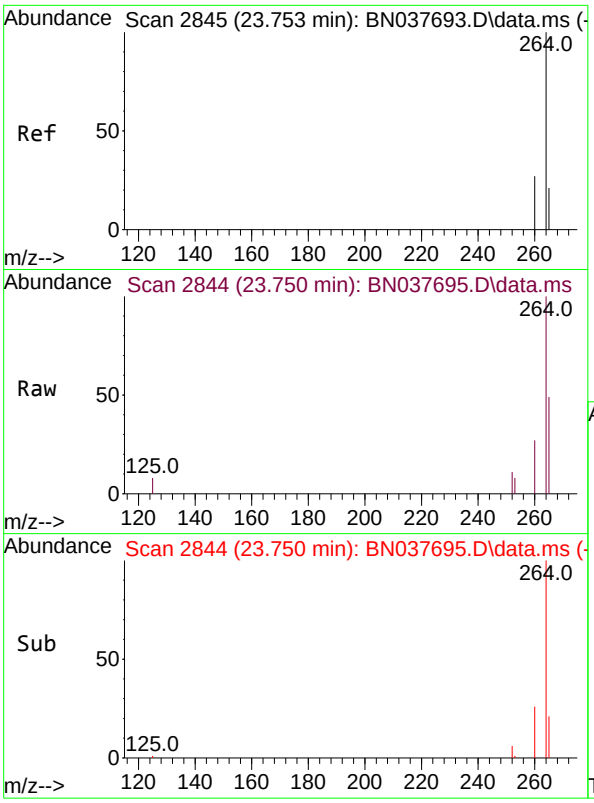




#34
Bis(2-ethylhexyl)phthalate
Concen: 1.470 ng
RT: 21.349 min Scan# 2266
Delta R.T. 0.000 min
Lab File: BN037695.D
Acq: 11 Sep 2025 12:20

Tgt Ion:149 Resp: 14814

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 149 | 100 | | |
| 167 | 26.6 | 20.8 | 31.2 |
| 279 | 3.2 | 3.3 | 4.9# |



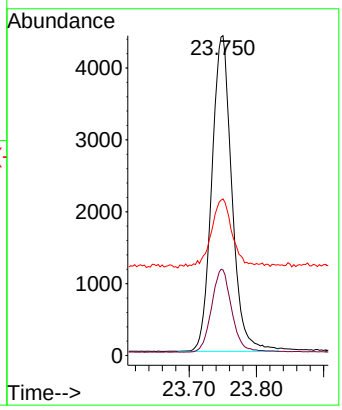


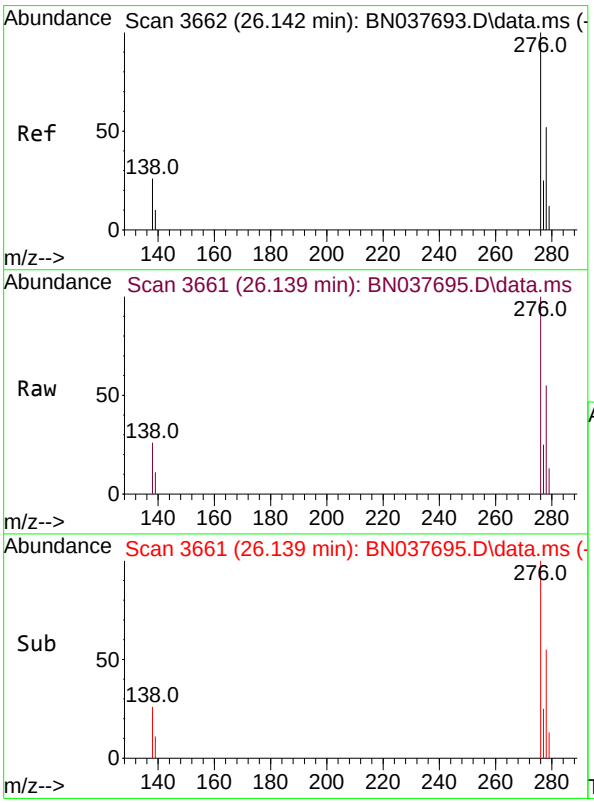

#35
Perylene-d12
Concen: 0.400 ng
RT: 23.750 min Scan# 28
Delta R.T. -0.003 min
Lab File: BN037695.D
Acq: 11 Sep 2025 12:20

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDICC1.6

Tgt Ion:264 Resp: 9111

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 264 | 100 | | |
| 260 | 26.8 | 21.8 | 32.8 |
| 265 | 49.0 | 39.4 | 59.2 |

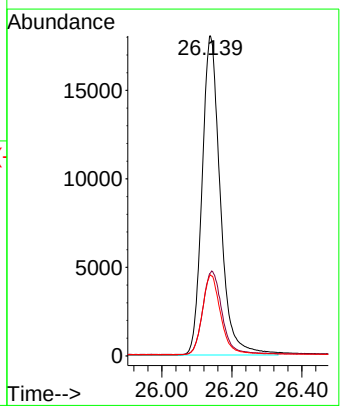


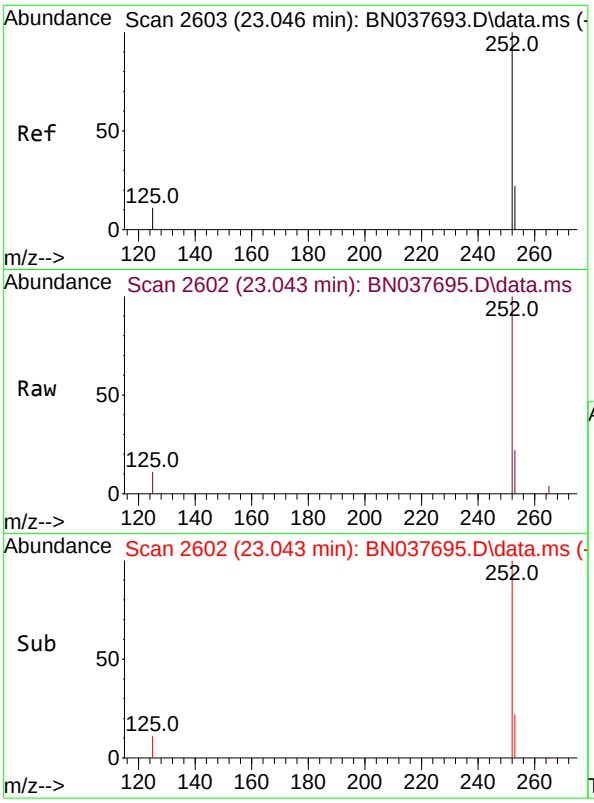




#36
Indeno(1,2,3-cd)pyrene
Concen: 1.705 ng
RT: 26.139 min Scan# 3661
Delta R.T. -0.003 min
Lab File: BN037695.D
Acq: 11 Sep 2025 12:20

Tgt Ion:276 Resp: 65254

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 276 | 100 | | |
| 138 | 27.5 | 21.9 | 32.9 |
| 277 | 25.2 | 20.1 | 30.1 |



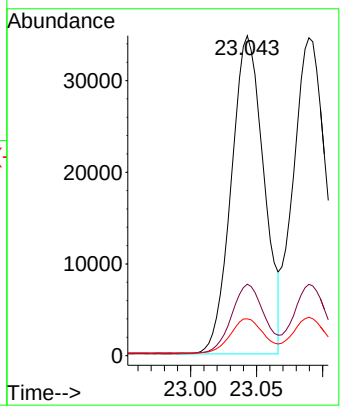


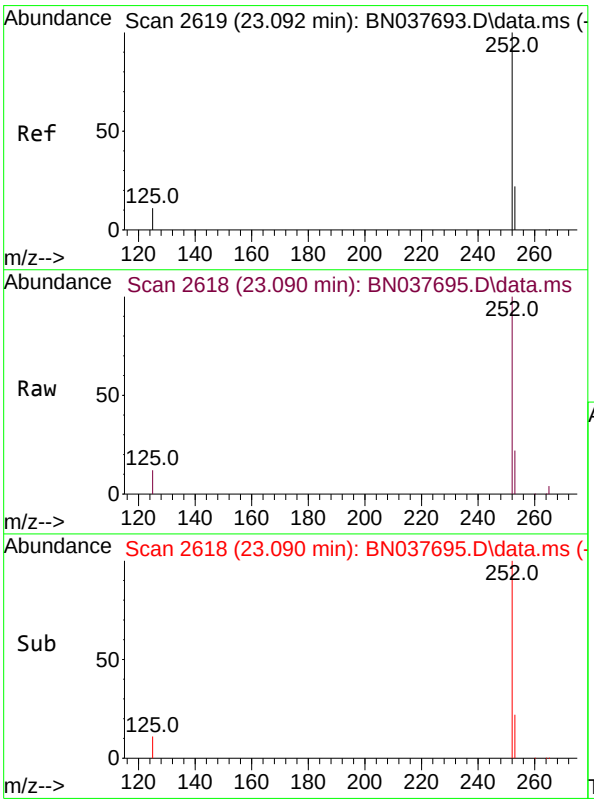

#37
Benzo(b)fluoranthene
Concen: 1.662 ng
RT: 23.043 min Scan# 2
Delta R.T. -0.003 min
Lab File: BN037695.D
Acq: 11 Sep 2025 12:20

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDICC1.6

Tgt Ion:252 Resp: 59639

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 22.3 | 19.4 | 29.2 |
| 125 | 11.5 | 11.2 | 16.8 |

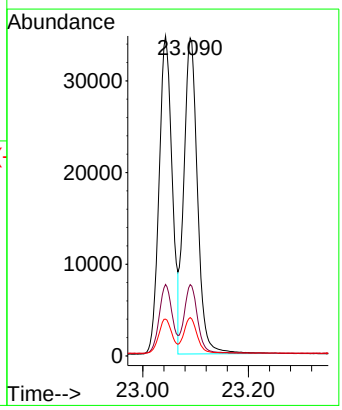


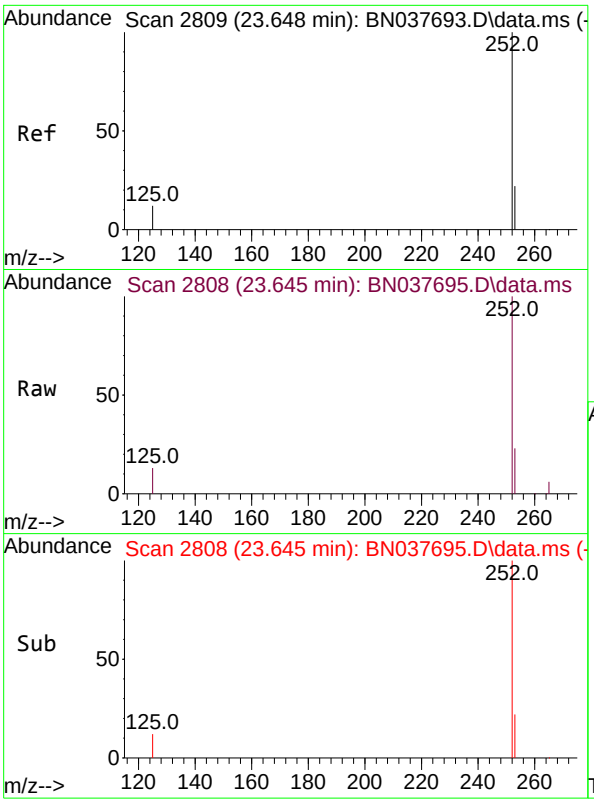




#38
Benzo(k)fluoranthene
Concen: 1.698 ng
RT: 23.090 min Scan# 2618
Delta R.T. -0.003 min
Lab File: BN037695.D
Acq: 11 Sep 2025 12:20

Tgt Ion:252 Resp: 62123

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 22.4 | 19.4 | 29.0 |
| 125 | 12.1 | 11.6 | 17.4 |



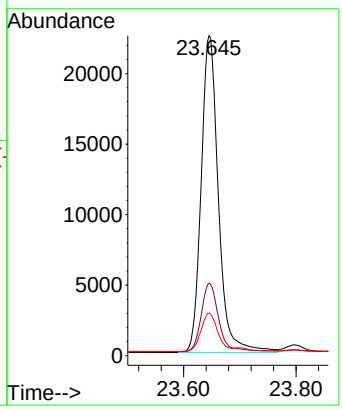


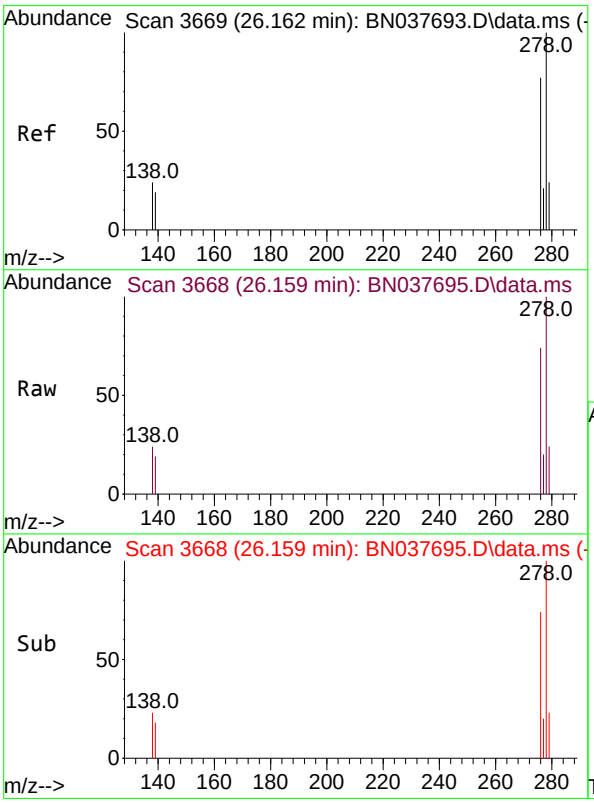

#39
Benzo(a)pyrene
Concen: 1.667 ng
RT: 23.645 min Scan# 28
Delta R.T. -0.003 min
Lab File: BN037695.D
Acq: 11 Sep 2025 12:20

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDICC1.6

Tgt Ion:252 Resp: 47897

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 22.6 | 20.8 | 31.2 |
| 125 | 13.3 | 13.9 | 20.9# |

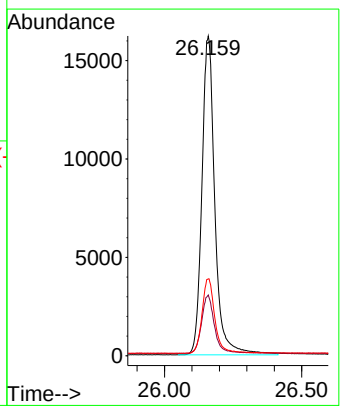


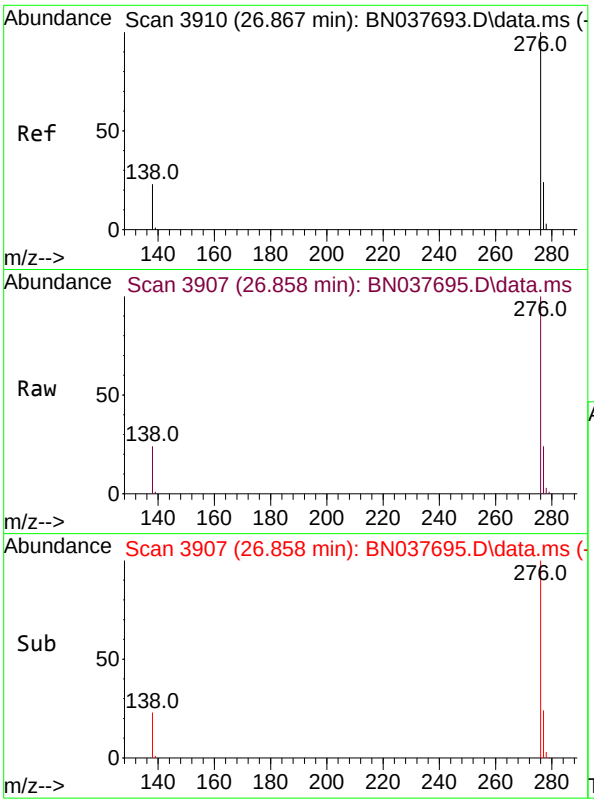




#40
Dibenzo(a,h)anthracene
Concen: 1.744 ng
RT: 26.159 min Scan# 3668
Delta R.T. -0.003 min
Lab File: BN037695.D
Acq: 11 Sep 2025 12:20

Tgt Ion:278 Resp: 53306

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 278 | 100 | | |
| 139 | 19.0 | 17.8 | 26.6 |
| 279 | 24.1 | 22.0 | 33.0 |



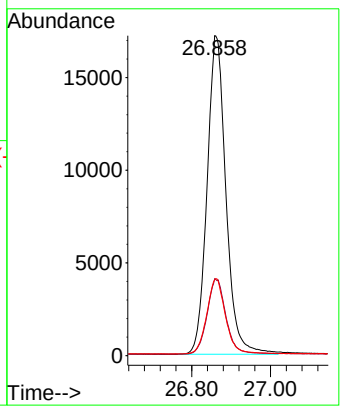



#41
Benzo(g,h,i)perylene
Concen: 1.666 ng
RT: 26.858 min Scan# 3
Delta R.T. -0.009 min
Lab File: BN037695.D
Acq: 11 Sep 2025 12:20

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDICC1.6

Tgt Ion:276 Resp: 57151

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 276 | 100 | | |
| 277 | 24.0 | 20.6 | 31.0 |
| 138 | 23.7 | 20.2 | 30.2 |



Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN091125\
Data File : BN037696.D
Acq On : 11 Sep 2025 12:56
Operator : RC/JU
Sample : SSTDICC3.2
Misc :
ALS Vial : 8 Sample Multiplier: 1

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDICC3.2

Quant Time: Sep 11 14:07:18 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN091125.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Sep 11 14:02:44 2025
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| Internal Standards | | | | | | | |
| 1) 1,4-Dichlorobenzene-d4 | 7.840 | 152 | 5084 | 0.400 | ng | | 0.00 |
| 7) Naphthalene-d8 | 10.648 | 136 | 13375 | 0.400 | ng | | 0.00 |
| 13) Acenaphthene-d10 | 14.495 | 164 | 6550 | 0.400 | ng | | 0.00 |
| 19) Phenanthrene-d10 | 17.235 | 188 | 11925 | 0.400 | ng | | 0.00 |
| 29) Chrysene-d12 | 21.420 | 240 | 12141 | 0.400 | ng | | 0.00 |
| 35) Perylene-d12 | 23.750 | 264 | 11403 | 0.400 | ng | | 0.00 |
| System Monitoring Compounds | | | | | | | |
| 4) 2-Fluorophenol | 5.399 | 112 | 38119 | 3.266 | ng | | 0.00 |
| 5) Phenol-d6 | 6.988 | 99 | 49810 | 3.291 | ng | | 0.00 |
| 8) Nitrobenzene-d5 | 8.993 | 82 | 32423 | 3.314 | ng | | 0.00 |
| 11) 2-Methylnaphthalene-d10 | 12.243 | 152 | 58810 | 3.319 | ng | | 0.00 |
| 14) 2,4,6-Tribromophenol | 15.982 | 330 | 6865 | 4.018 | ng | | 0.00 |
| 15) 2-Fluorobiphenyl | 13.115 | 172 | 87709 | 3.202 | ng | | 0.00 |
| 27) Fluoranthene-d10 | 19.267 | 212 | 105719 | 3.531 | ng | | 0.00 |
| 31) Terphenyl-d14 | 19.870 | 244 | 76156 | 3.090 | ng | | 0.00 |
| Target Compounds | | | | | | | Qvalue |
| 2) 1,4-Dioxane | 3.304 | 88 | 16994 | 3.209 | ng | | 98 |
| 3) n-Nitrosodimethylamine | 3.601 | 42 | 22382 | 3.235 | ng | # | 95 |
| 6) bis(2-Chloroethyl)ether | 7.255 | 93 | 43338 | 3.205 | ng | | 100 |
| 9) Naphthalene | 10.690 | 128 | 119338 | 3.264 | ng | | 99 |
| 10) Hexachlorobutadiene | 11.000 | 225 | 21272 | 3.216 | ng | # | 100 |
| 12) 2-Methylnaphthalene | 12.314 | 142 | 76164 | 3.368 | ng | | 99 |
| 16) Acenaphthylene | 14.217 | 152 | 100382 | 3.342 | ng | | 100 |
| 17) Acenaphthene | 14.559 | 154 | 67901 | 3.343 | ng | | 98 |
| 18) Fluorene | 15.535 | 166 | 85576 | 3.479 | ng | | 98 |
| 20) 4,6-Dinitro-2-methylph... | 15.609 | 198 | 4427 | 4.008 | ng | # | 37 |
| 21) 4-Bromophenyl-phenylether | 16.441 | 248 | 25659 | 3.300 | ng | | 97 |
| 22) Hexachlorobenzene | 16.553 | 284 | 28853 | 3.226 | ng | | 99 |
| 23) Atrazine | 16.702 | 200 | 18156 | 3.670 | ng | | 96 |
| 24) Pentachlorophenol | 16.888 | 266 | 9551 | 3.678 | ng | | 97 |
| 25) Phenanthrene | 17.285 | 178 | 125980 | 3.355 | ng | | 100 |
| 26) Anthracene | 17.372 | 178 | 116443 | 3.501 | ng | | 100 |
| 28) Fluoranthene | 19.299 | 202 | 150569 | 3.657 | ng | | 100 |
| 30) Pyrene | 19.661 | 202 | 149814 | 3.152 | ng | | 100 |
| 32) Benzo(a)anthracene | 21.402 | 228 | 141736 | 3.347 | ng | | 99 |
| 33) Chrysene | 21.456 | 228 | 146238 | 3.221 | ng | | 100 |
| 34) Bis(2-ethylhexyl)phtha... | 21.349 | 149 | 42504 | 3.385 | ng | # | 99 |
| 36) Indeno(1,2,3-cd)pyrene | 26.139 | 276 | 170120 | 3.551 | ng | | 100 |
| 37) Benzo(b)fluoranthene | 23.046 | 252 | 152726 | 3.401 | ng | | 94 |
| 38) Benzo(k)fluoranthene | 23.092 | 252 | 154690 | 3.378 | ng | # | 94 |
| 39) Benzo(a)pyrene | 23.648 | 252 | 124741 | 3.469 | ng | # | 90 |
| 40) Dibenzo(a,h)anthracene | 26.159 | 278 | 138597 | 3.623 | ng | | 92 |
| 41) Benzo(g,h,i)perylene | 26.864 | 276 | 146601 | 3.415 | ng | | 96 |

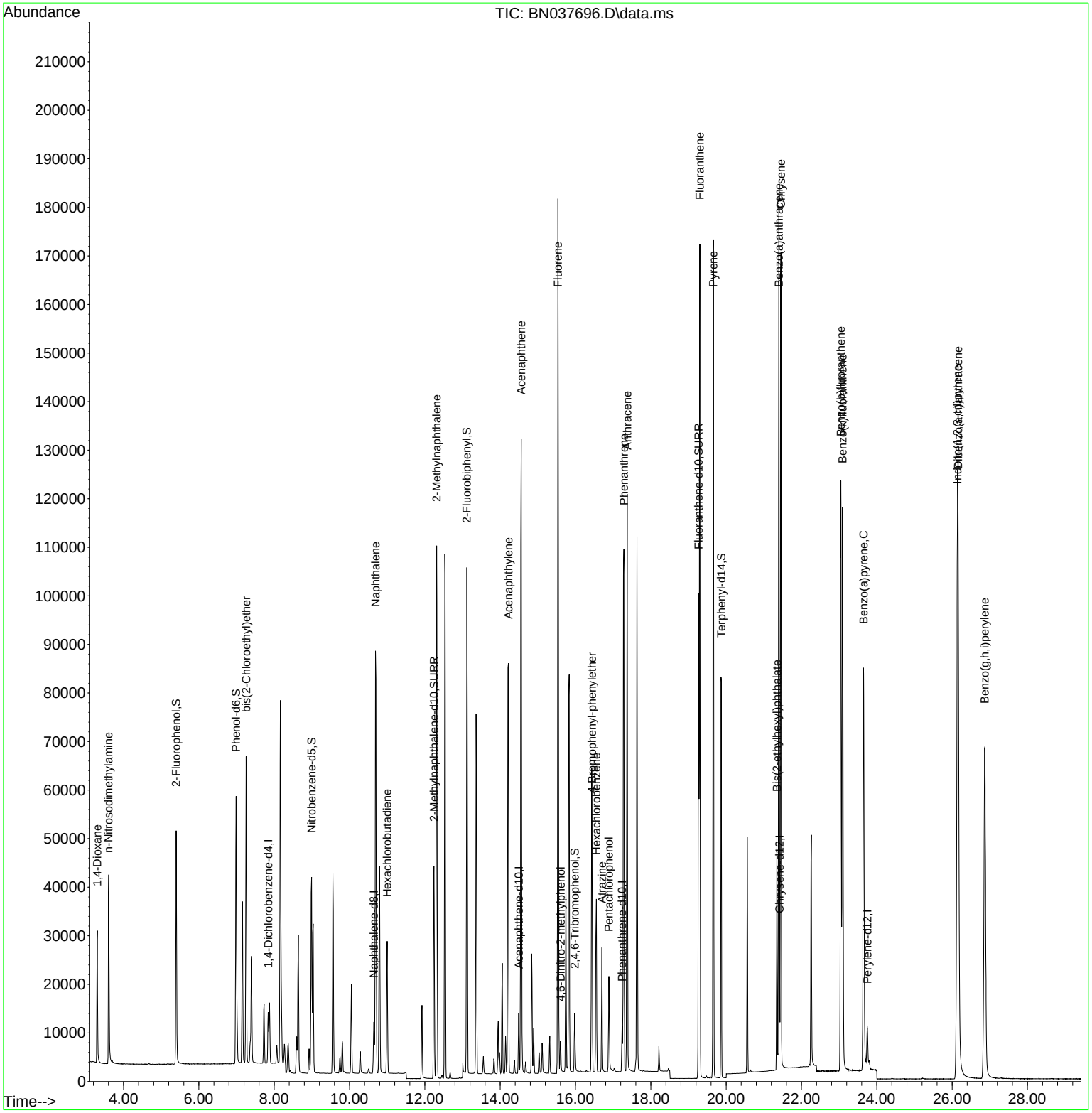
(#) = qualifier out of range (m) = manual integration (+) = signals summed

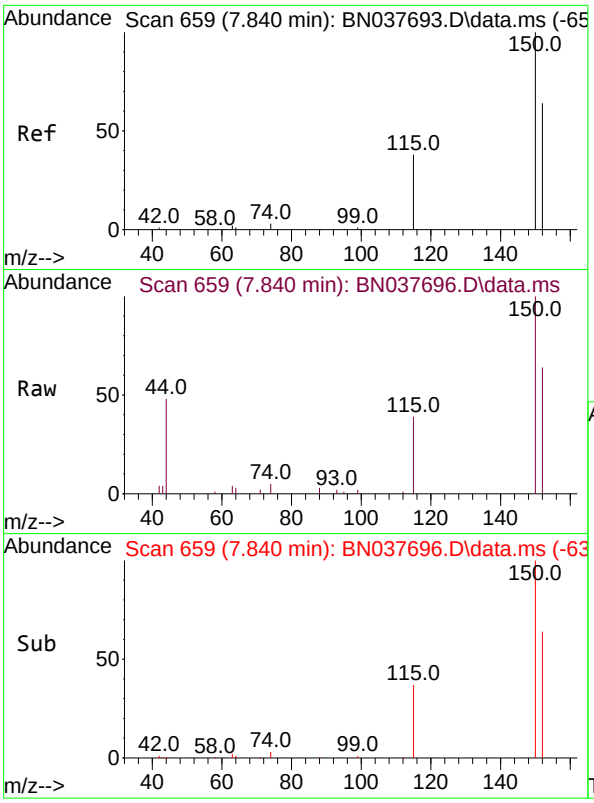
ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN091125\
Data File : BN037696.D
Acq On : 11 Sep 2025 12:56
Operator : RC/JU
Sample : SSTDICC3.2
Misc :
ALS Vial : 8 Sample Multiplier: 1

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDICC3.2

Quant Time: Sep 11 14:07:18 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN091125.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Sep 11 14:02:44 2025
Response via : Initial Calibration



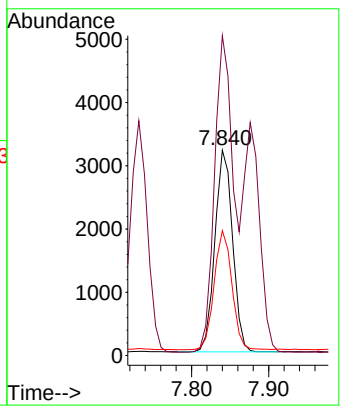


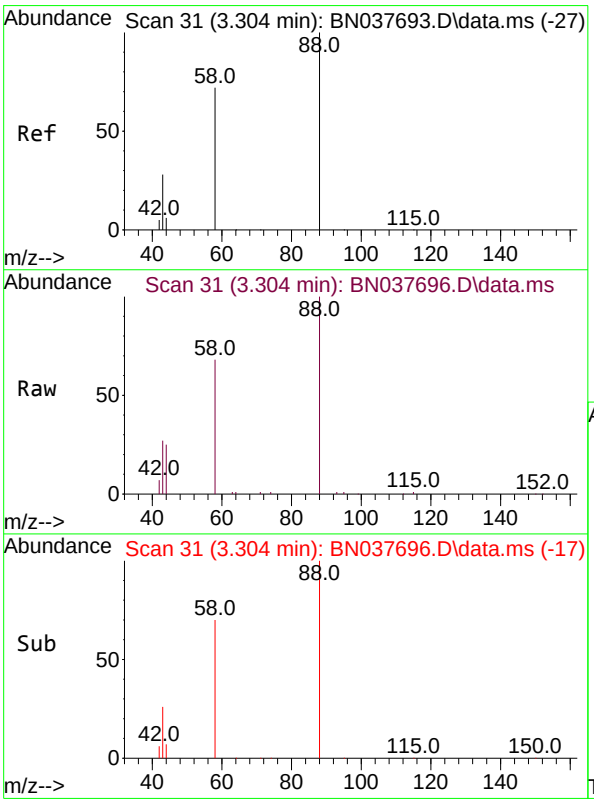

#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.840 min Scan# 6
Delta R.T. -0.000 min
Lab File: BN037696.D
Acq: 11 Sep 2025 12:56

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDICC3.2

Tgt Ion:152 Resp: 5084

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 150 | 155.9 | 124.5 | 186.7 |
| 115 | 60.8 | 49.2 | 73.8 |

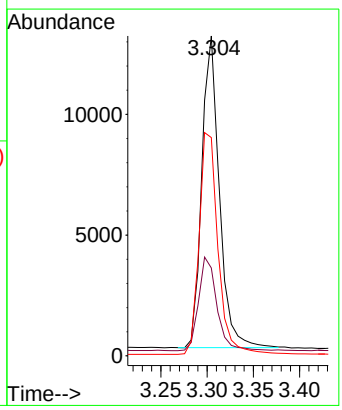


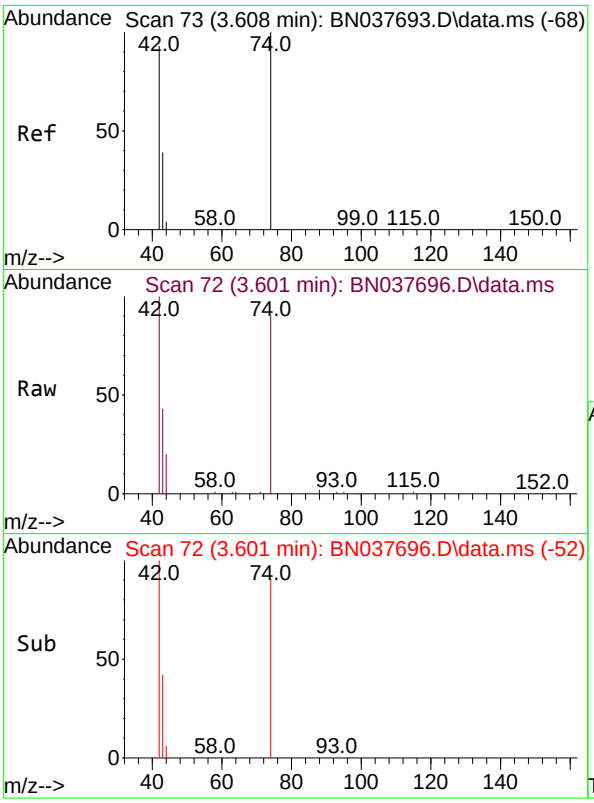




#2
1,4-Dioxane
Concen: 3.209 ng
RT: 3.304 min Scan# 31
Delta R.T. -0.000 min
Lab File: BN037696.D
Acq: 11 Sep 2025 12:56

Tgt Ion: 88 Resp: 16994

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 88 | 100 | | |
| 43 | 31.3 | 26.8 | 40.2 |
| 58 | 76.5 | 61.9 | 92.9 |



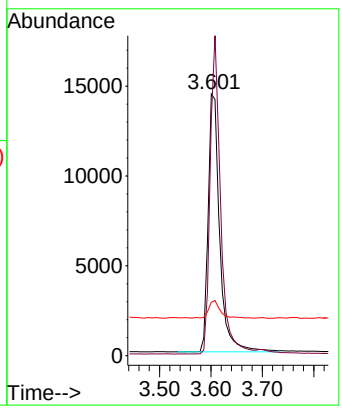


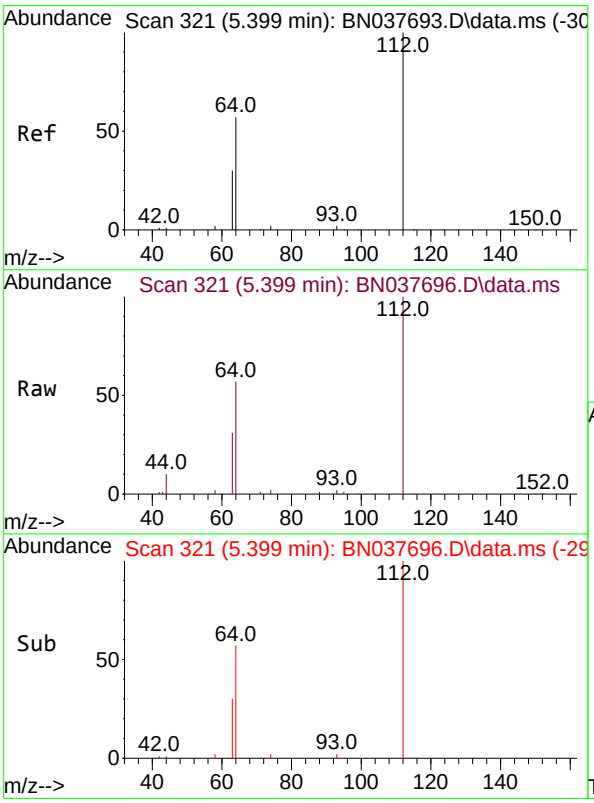

#3
n-Nitrosodimethylamine
Concen: 3.235 ng
RT: 3.601 min Scan# 7
Delta R.T. -0.007 min
Lab File: BN037696.D
Acq: 11 Sep 2025 12:56

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDICC3.2

Tgt Ion: 42 Resp: 22382

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 42 | 100 | | |
| 74 | 112.2 | 86.0 | 129.0 |
| 44 | 6.7 | 8.4 | 12.6# |

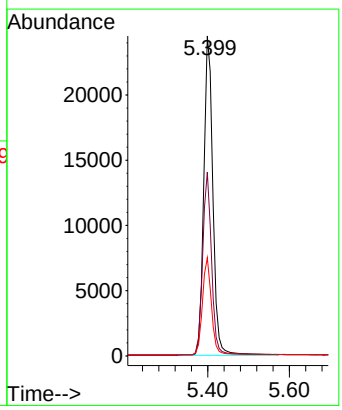


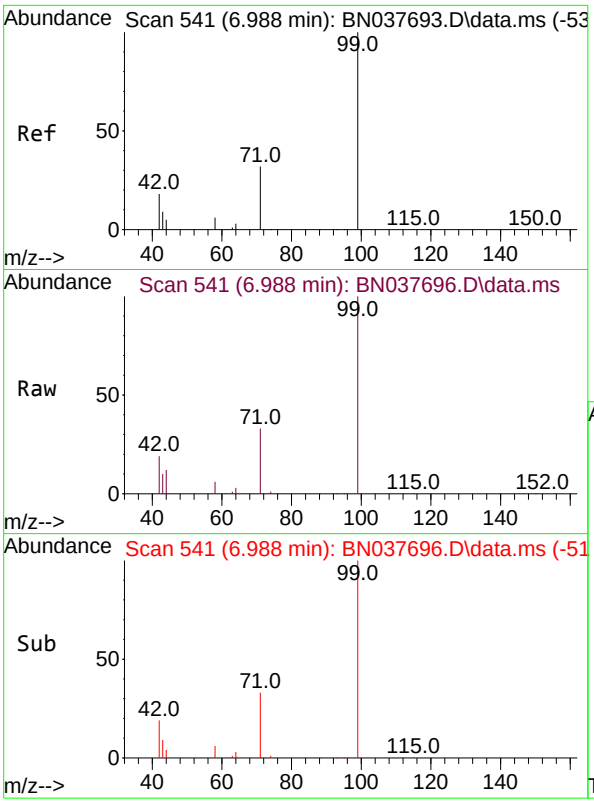




#4
2-Fluorophenol
Concen: 3.266 ng
RT: 5.399 min Scan# 321
Delta R.T. -0.000 min
Lab File: BN037696.D
Acq: 11 Sep 2025 12:56

Tgt Ion:112 Resp: 38119

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 112 | 100 | | |
| 64 | 56.4 | 44.9 | 67.3 |
| 63 | 29.6 | 24.7 | 37.1 |



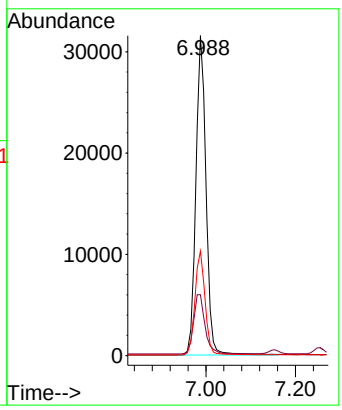


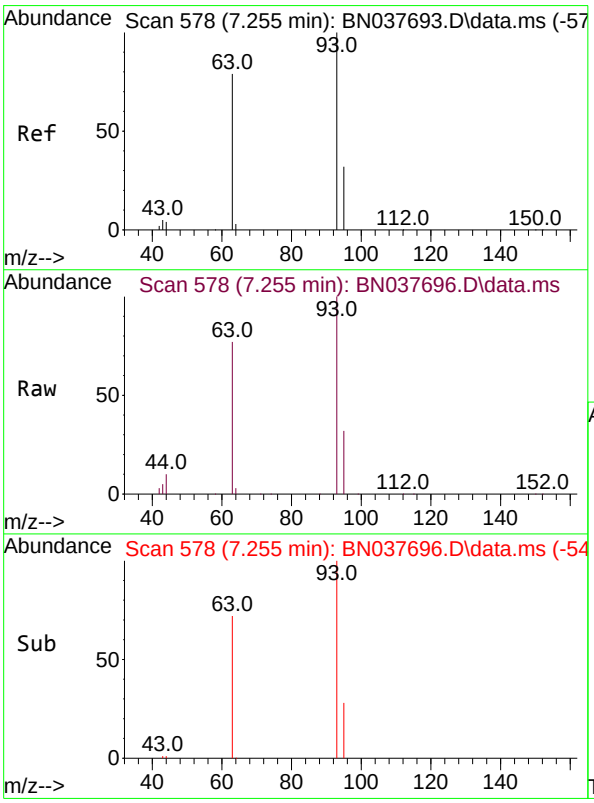

#5
Phenol-d6
Concen: 3.291 ng
RT: 6.988 min Scan# 54
Delta R.T. -0.000 min
Lab File: BN037696.D
Acq: 11 Sep 2025 12:56

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDICC3.2

Tgt Ion: 99 Resp: 49810

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 99 | 100 | | |
| 42 | 21.0 | 16.6 | 24.8 |
| 71 | 32.5 | 26.7 | 40.1 |

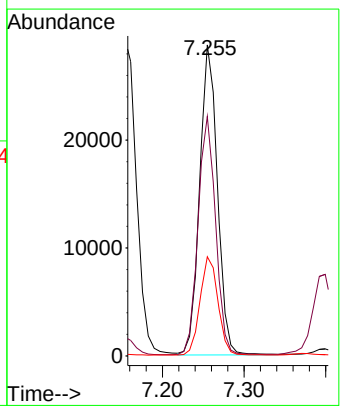


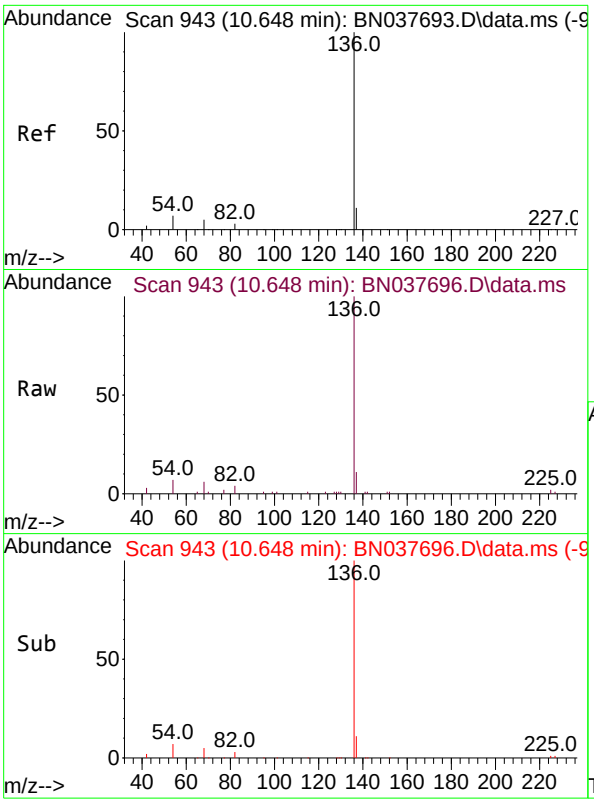




#6
bis(2-Chloroethyl)ether
Concen: 3.205 ng
RT: 7.255 min Scan# 578
Delta R.T. -0.000 min
Lab File: BN037696.D
Acq: 11 Sep 2025 12:56

Tgt Ion: 93 Resp: 43338

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 93 | 100 | | |
| 63 | 75.9 | 60.6 | 90.8 |
| 95 | 31.9 | 26.0 | 39.0 |



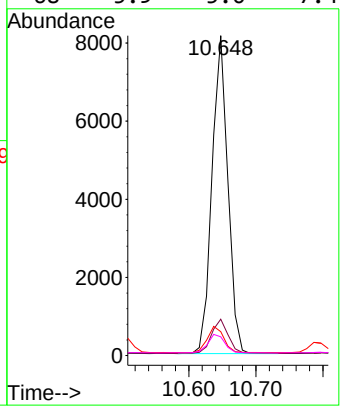


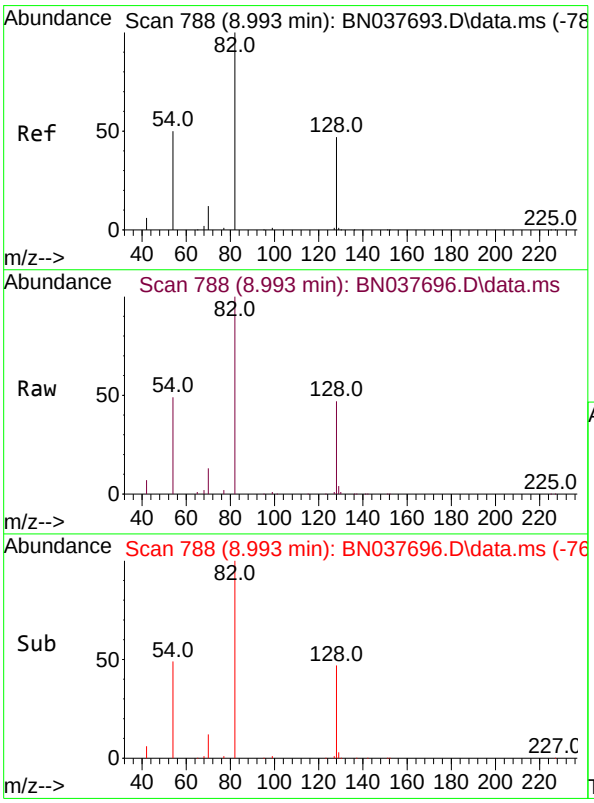

#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.648 min Scan# 94
Delta R.T. -0.000 min
Lab File: BN037696.D
Acq: 11 Sep 2025 12:56

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDICC3.2

Tgt Ion:136 Resp: 13375

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 136 | 100 | | |
| 137 | 11.4 | 9.1 | 13.7 |
| 54 | 7.5 | 6.3 | 9.5 |
| 68 | 5.9 | 5.0 | 7.4 |

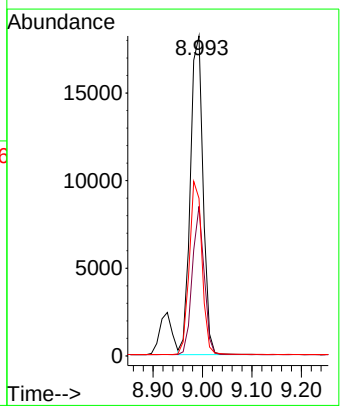


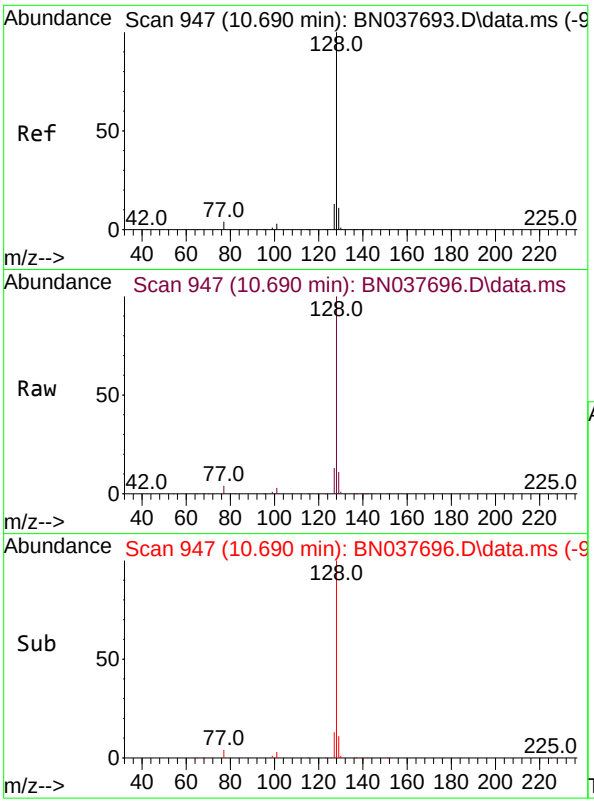




#8
Nitrobenzene-d5
Concen: 3.314 ng
RT: 8.993 min Scan# 788
Delta R.T. -0.000 min
Lab File: BN037696.D
Acq: 11 Sep 2025 12:56

Tgt Ion: 82 Resp: 32423

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 82 | 100 | | |
| 128 | 46.7 | 38.3 | 57.5 |
| 54 | 49.2 | 41.4 | 62.2 |



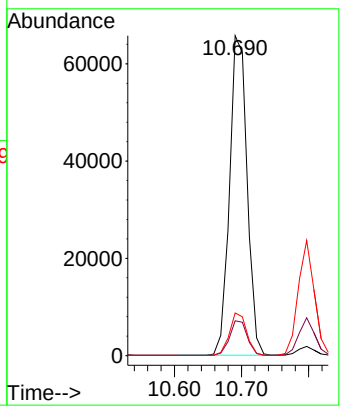


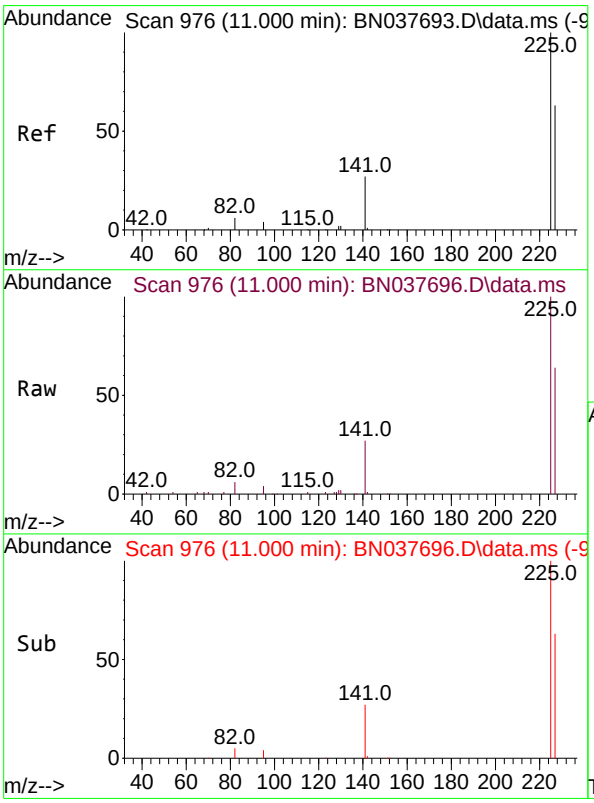

#9
Naphthalene
Concen: 3.264 ng
RT: 10.690 min Scan# 94
Delta R.T. -0.000 min
Lab File: BN037696.D
Acq: 11 Sep 2025 12:56

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDICC3.2

Tgt Ion:128 Resp: 119338

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 128 | 100 | | |
| 129 | 10.9 | 9.1 | 13.7 |
| 127 | 13.3 | 10.9 | 16.3 |

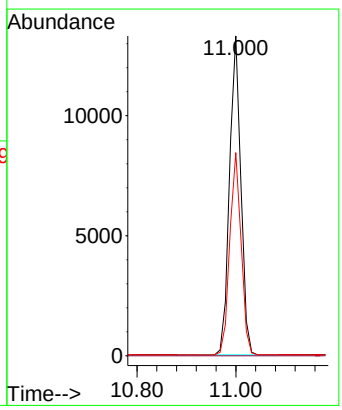


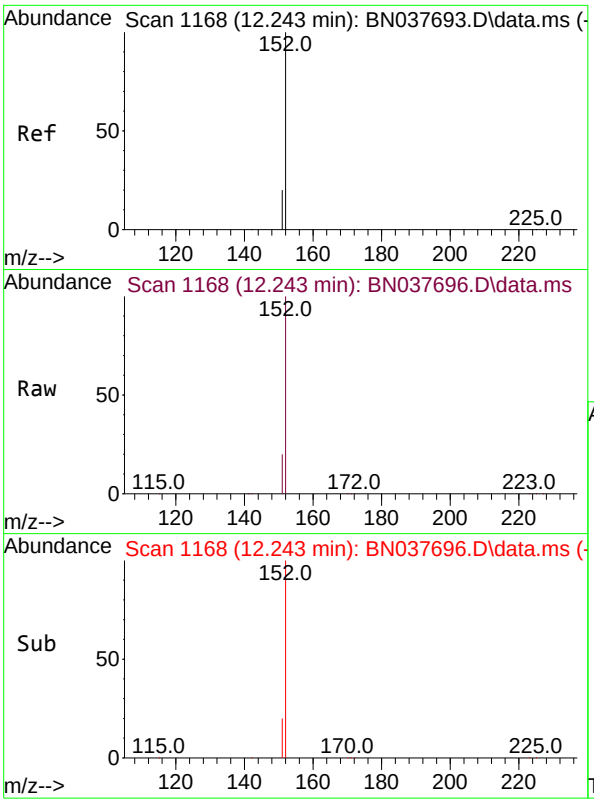




#10
Hexachlorobutadiene
Concen: 3.216 ng
RT: 11.000 min Scan# 976
Delta R.T. -0.000 min
Lab File: BN037696.D
Acq: 11 Sep 2025 12:56

Tgt Ion:225 Resp: 21272

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 225 | 100 | | |
| 223 | 0.0 | 0.0 | 0.0 |
| 227 | 63.5 | 50.9 | 76.3 |



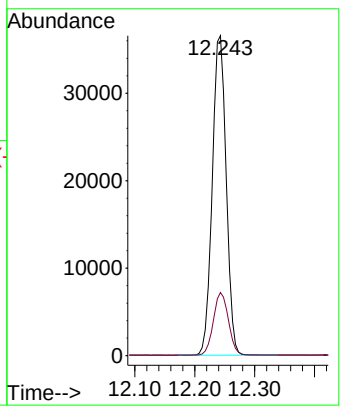


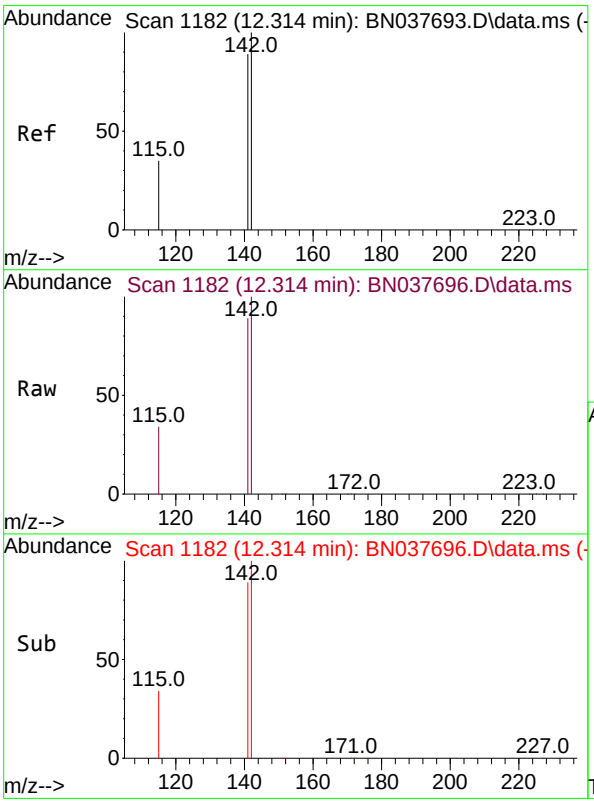

#11
2-Methylnaphthalene-d10
Concen: 3.319 ng
RT: 12.243 min Scan# 11
Delta R.T. -0.000 min
Lab File: BN037696.D
Acq: 11 Sep 2025 12:56

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDICC3.2

Tgt Ion:152 Resp: 58810

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

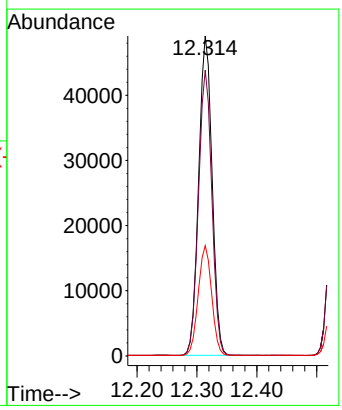


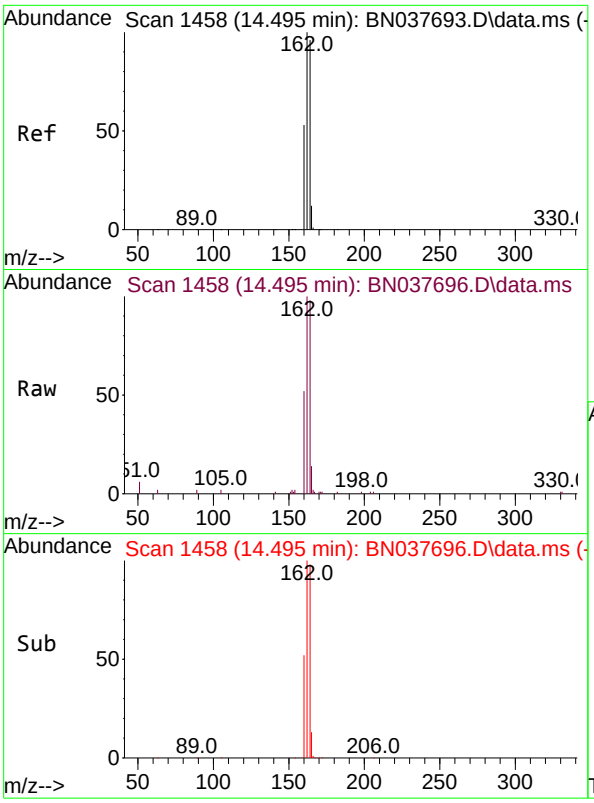




#12
2-Methylnaphthalene
Concen: 3.368 ng
RT: 12.314 min Scan# 1182
Delta R.T. -0.000 min
Lab File: BN037696.D
Acq: 11 Sep 2025 12:56

Tgt Ion:142 Resp: 76164

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 142 | 100 | | |
| 141 | 89.3 | 71.6 | 107.4 |
| 115 | 34.4 | 28.6 | 43.0 |



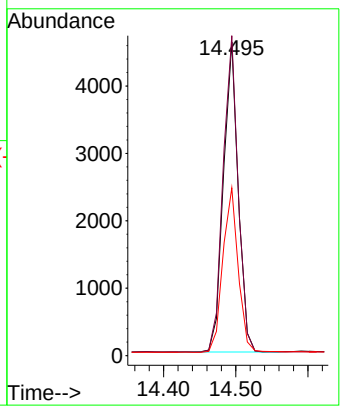


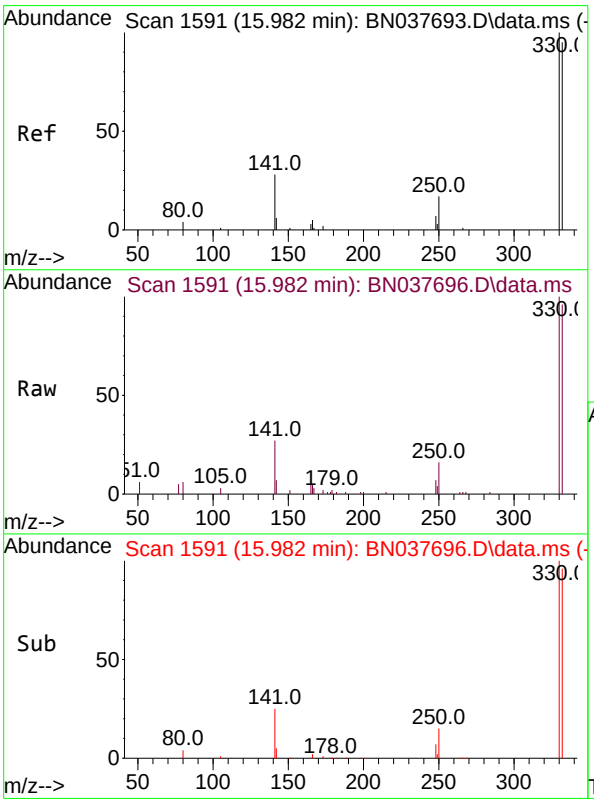

#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.495 min Scan# 14
Delta R.T. -0.000 min
Lab File: BN037696.D
Acq: 11 Sep 2025 12:56

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDICC3.2

Tgt Ion:164 Resp: 6550

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 164 | 100 | | |
| 162 | 102.0 | 83.1 | 124.7 |
| 160 | 53.5 | 44.3 | 66.5 |

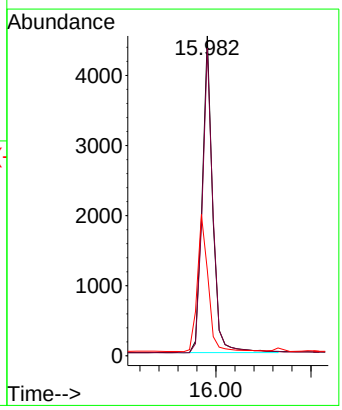


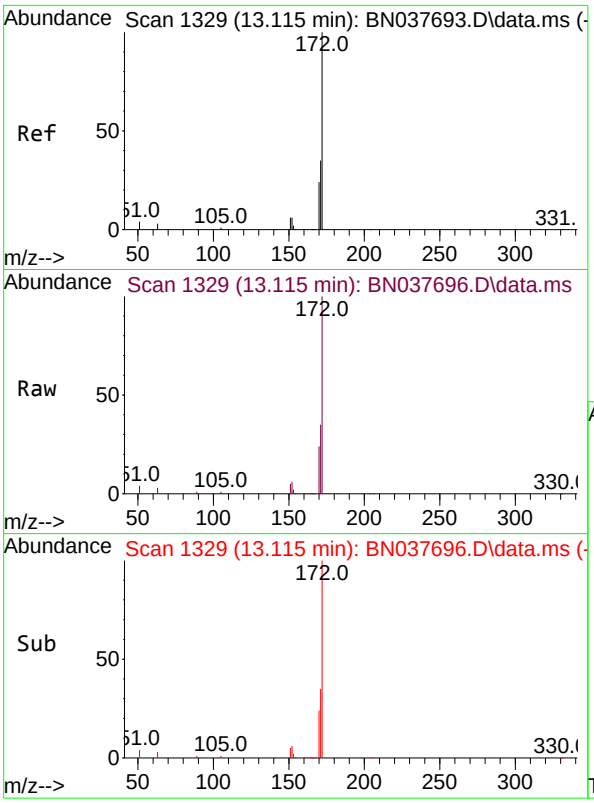




#14
2,4,6-Tribromophenol
Concen: 4.018 ng
RT: 15.982 min Scan# 1591
Delta R.T. -0.000 min
Lab File: BN037696.D
Acq: 11 Sep 2025 12:56

Tgt Ion:330 Resp: 6865

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 330 | 100 | | |
| 332 | 97.3 | 75.3 | 112.9 |
| 141 | 44.8 | 35.0 | 52.4 |



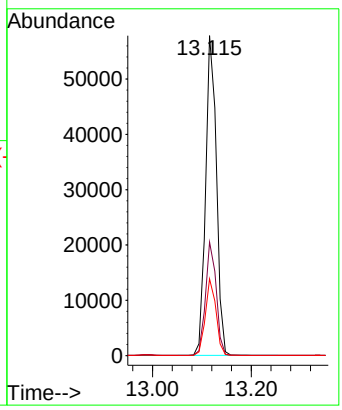


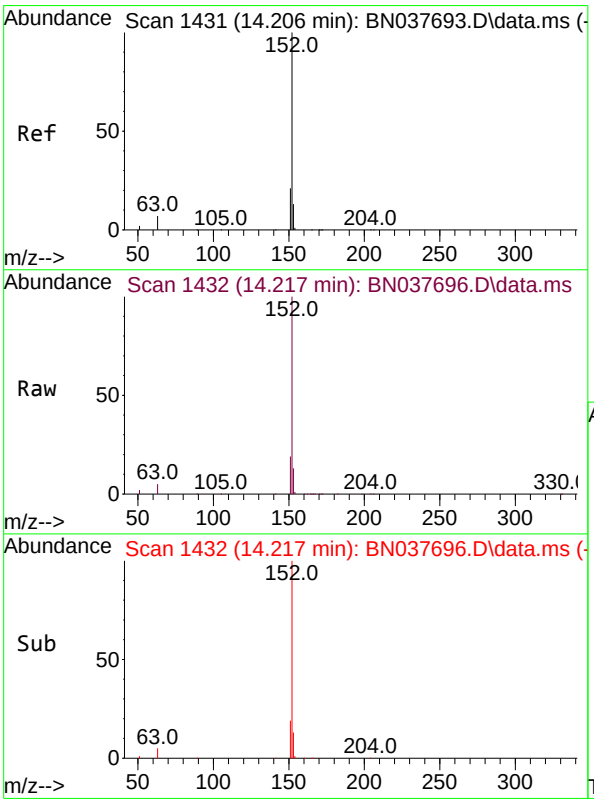

#15
2-Fluorobiphenyl
Concen: 3.202 ng
RT: 13.115 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN037696.D
Acq: 11 Sep 2025 12:56

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDICC3.2

Tgt Ion:172 Resp: 87709

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 172 | 100 | | |
| 171 | 35.5 | 28.6 | 43.0 |
| 170 | 24.0 | 19.8 | 29.8 |

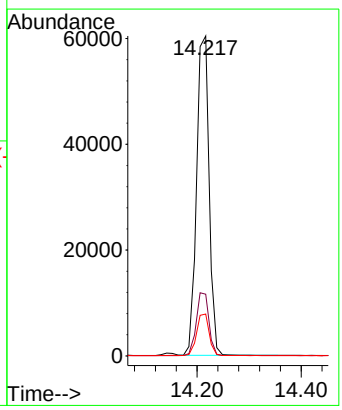


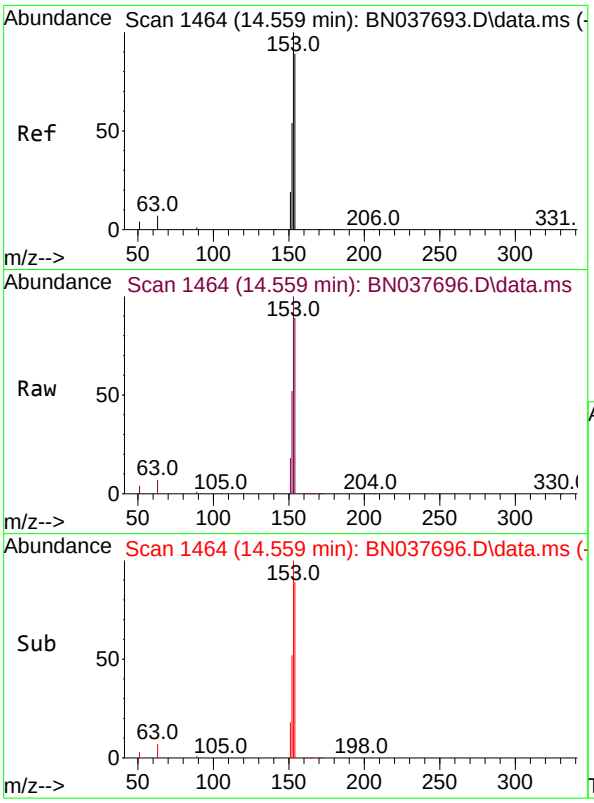




#16
Acenaphthylene
Concen: 3.342 ng
RT: 14.217 min Scan# 1432
Delta R.T. 0.011 min
Lab File: BN037696.D
Acq: 11 Sep 2025 12:56

Tgt Ion:152 Resp: 100382

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 151 | 19.9 | 16.2 | 24.2 |
| 153 | 13.0 | 10.4 | 15.6 |



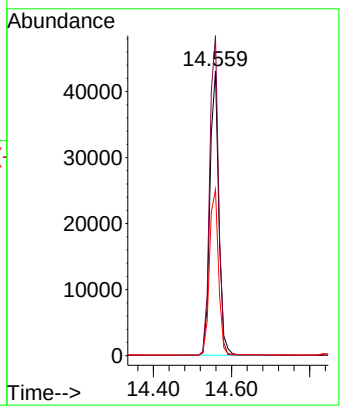


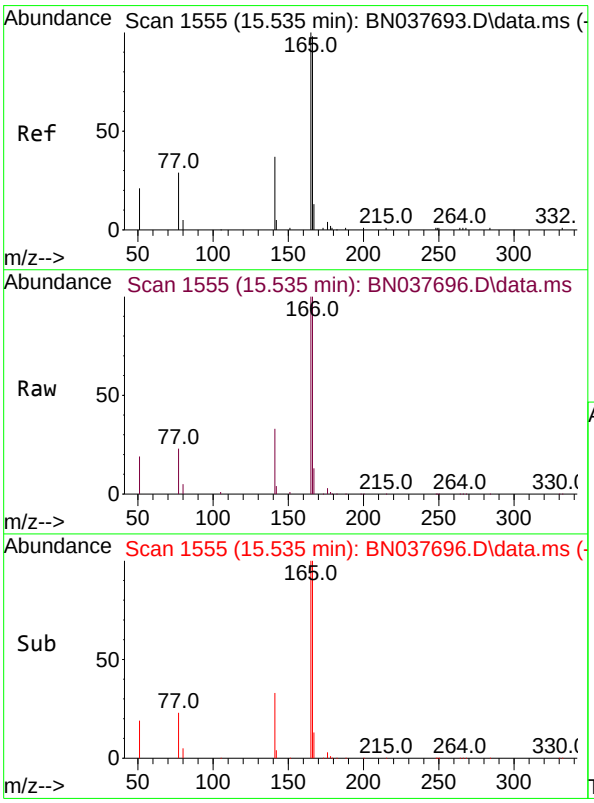

#17
Acenaphthene
Concen: 3.343 ng
RT: 14.559 min Scan# 14
Delta R.T. -0.000 min
Lab File: BN037696.D
Acq: 11 Sep 2025 12:56

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDICC3.2

Tgt Ion:154 Resp: 67901

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 154 | 100 | | |
| 153 | 111.5 | 89.8 | 134.8 |
| 152 | 59.8 | 50.2 | 75.2 |

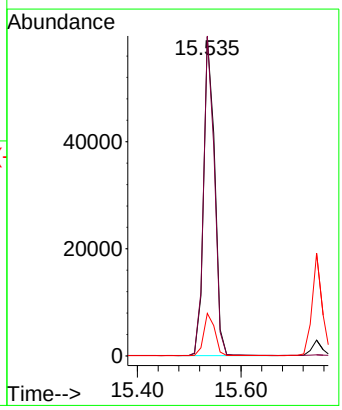


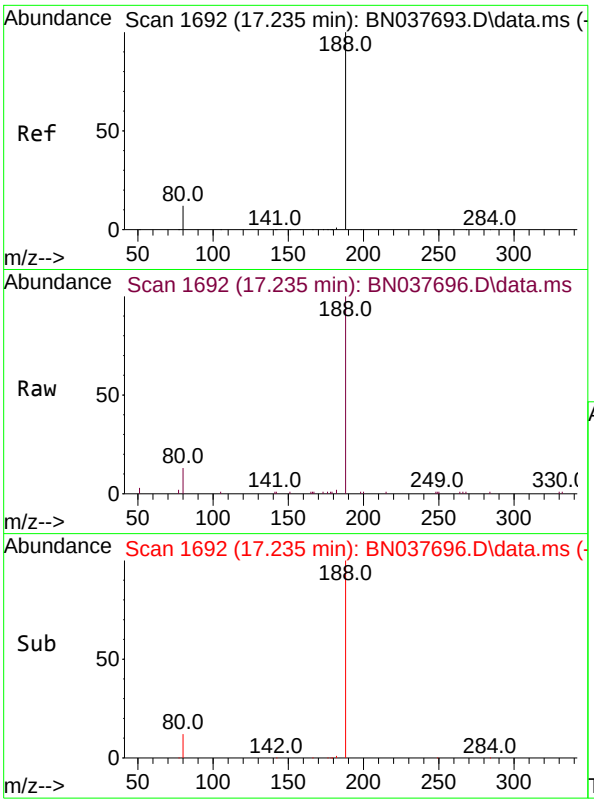




#18
Fluorene
Concen: 3.479 ng
RT: 15.535 min Scan# 1555
Delta R.T. -0.000 min
Lab File: BN037696.D
Acq: 11 Sep 2025 12:56

Tgt Ion:166 Resp: 85576

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 166 | 100 | | |
| 165 | 96.7 | 79.6 | 119.4 |
| 167 | 13.4 | 10.6 | 16.0 |



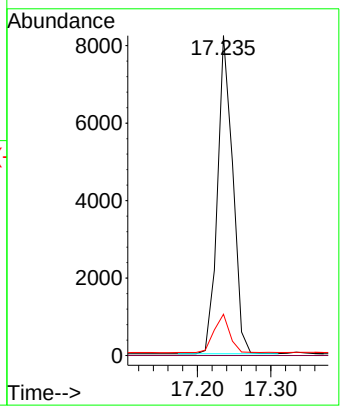


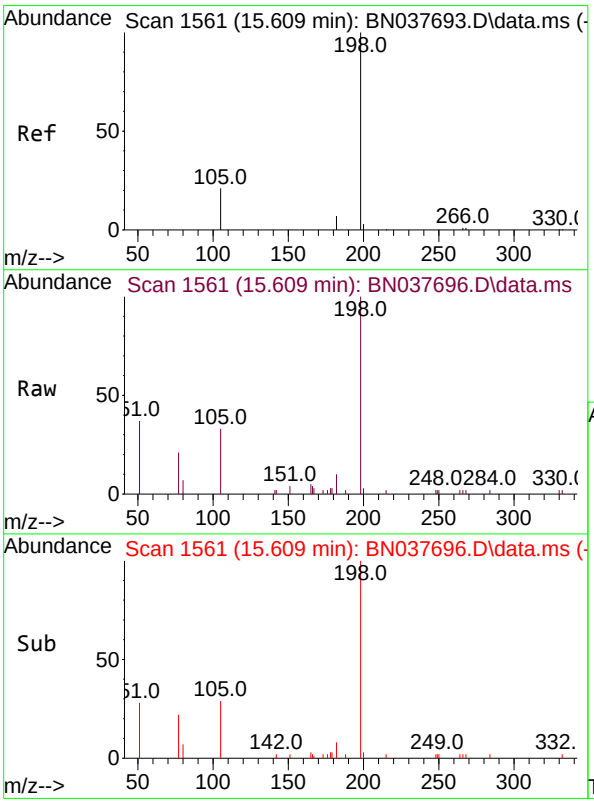

#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.235 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN037696.D
Acq: 11 Sep 2025 12:56

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDICC3.2

Tgt Ion:188 Resp: 11925

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 188 | 100 | | |
| 94 | 0.0 | 0.0 | 0.0 |
| 80 | 12.9 | 10.6 | 15.8 |

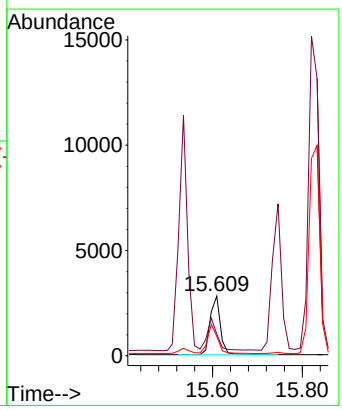


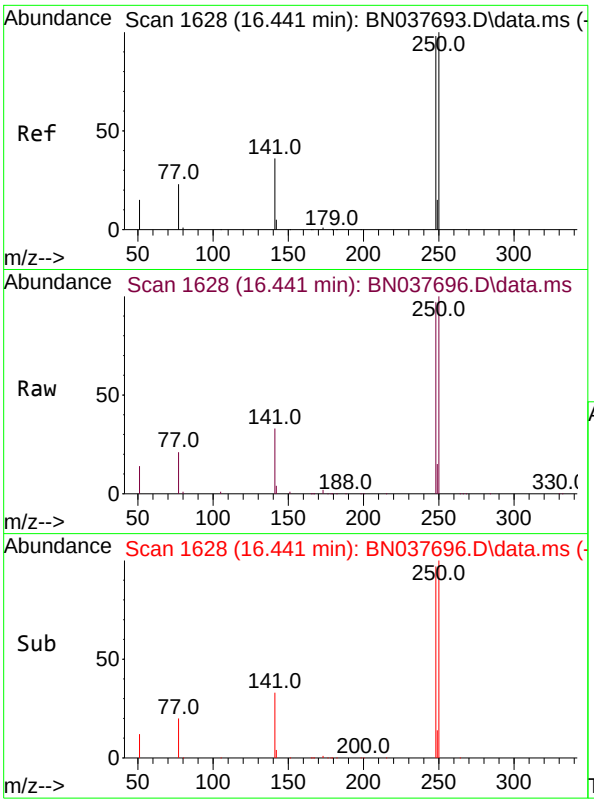




#20
4,6-Dinitro-2-methylphenol
Concen: 4.008 ng
RT: 15.609 min Scan# 1561
Delta R.T. 0.000 min
Lab File: BN037696.D
Acq: 11 Sep 2025 12:56

Tgt Ion:198 Resp: 4427

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 198 | 100 | | |
| 51 | 36.6 | 95.1 | 142.7# |
| 105 | 32.9 | 53.8 | 80.6# |



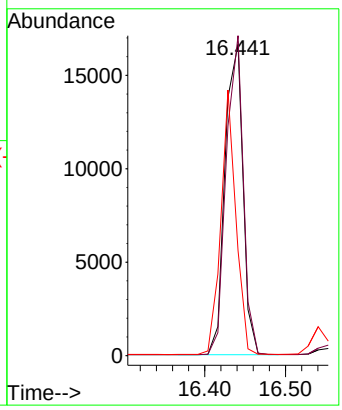


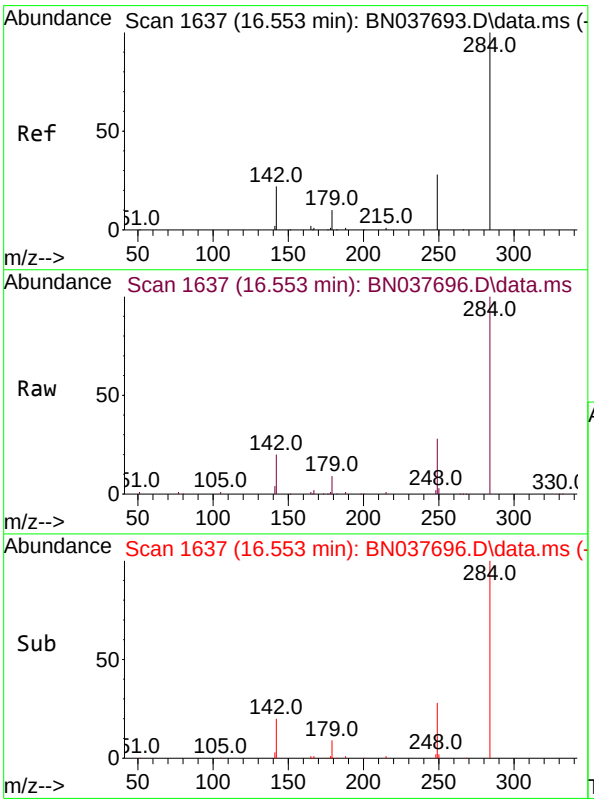

#21
4-Bromophenyl-phenylether
Concen: 3.300 ng
RT: 16.441 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN037696.D
Acq: 11 Sep 2025 12:56

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDICC3.2

Tgt Ion:248 Resp: 25659

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 248 | 100 | | |
| 250 | 102.8 | 81.5 | 122.3 |
| 141 | 33.7 | 30.8 | 46.2 |

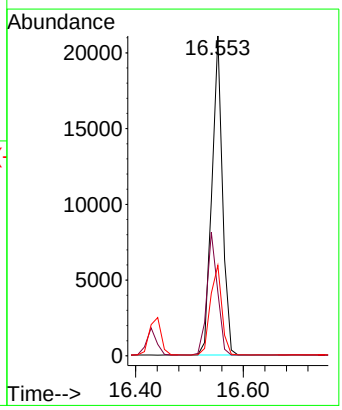


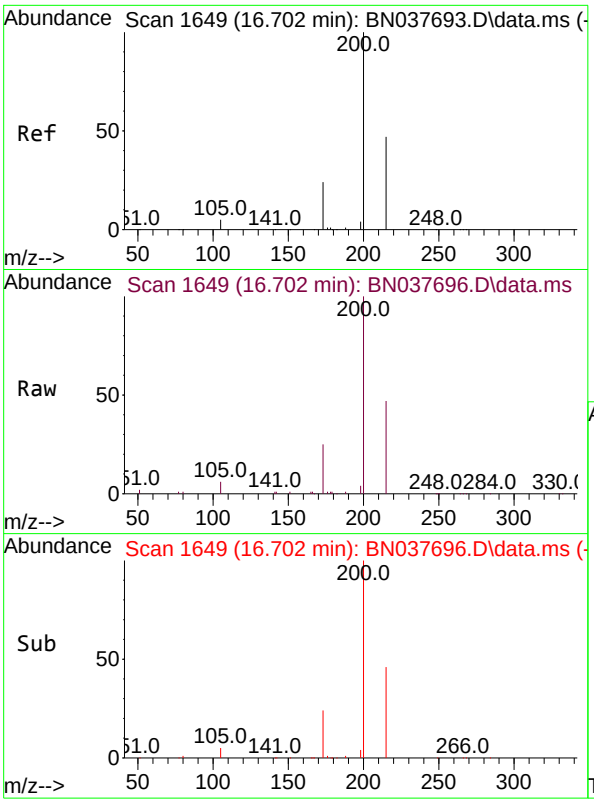




#22
Hexachlorobenzene
Concen: 3.226 ng
RT: 16.553 min Scan# 1637
Delta R.T. -0.000 min
Lab File: BN037696.D
Acq: 11 Sep 2025 12:56

Tgt Ion:284 Resp: 28853

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 284 | 100 | | |
| 142 | 38.5 | 30.9 | 46.3 |
| 249 | 30.4 | 24.8 | 37.2 |



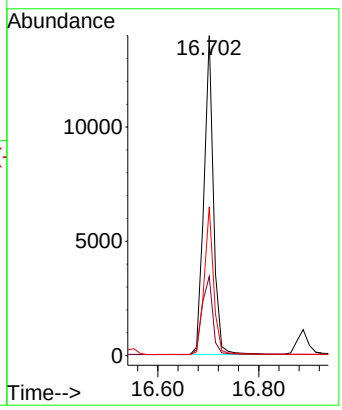


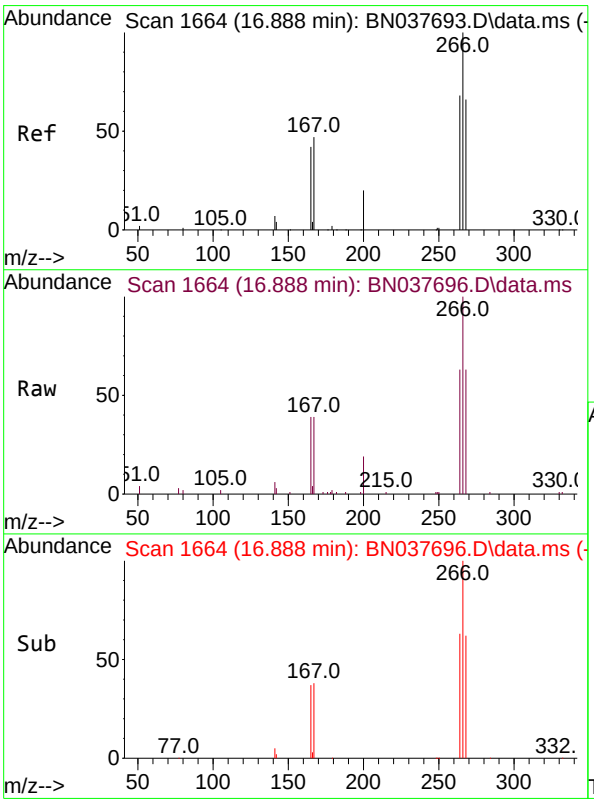

#23
Atrazine
Concen: 3.670 ng
RT: 16.702 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN037696.D
Acq: 11 Sep 2025 12:56

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDICC3.2

Tgt Ion:200 Resp: 18156

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 200 | 100 | | |
| 173 | 24.7 | 21.4 | 32.2 |
| 215 | 46.5 | 39.2 | 58.8 |

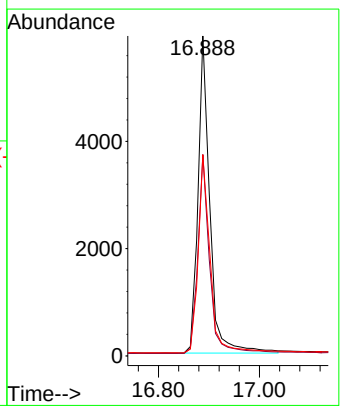


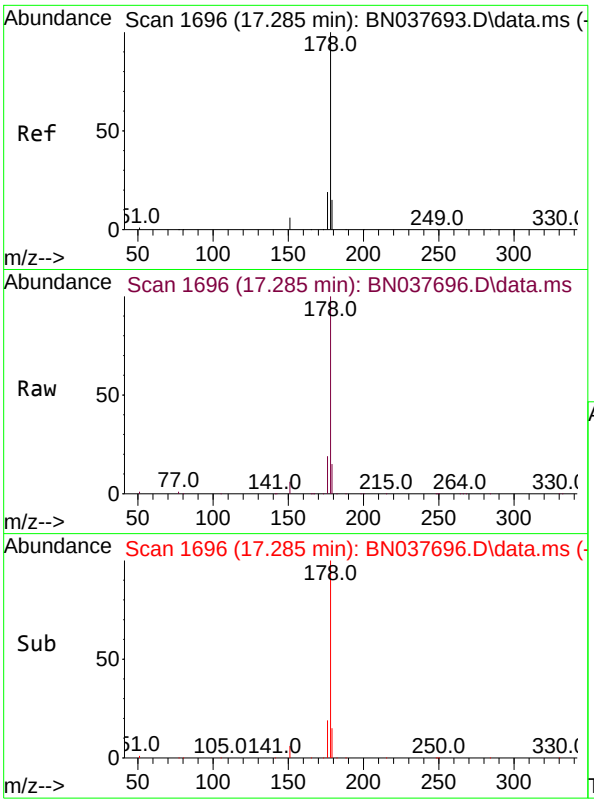




#24
Pentachlorophenol
Concen: 3.678 ng
RT: 16.888 min Scan# 1664
Delta R.T. -0.000 min
Lab File: BN037696.D
Acq: 11 Sep 2025 12:56

Tgt Ion:266 Resp: 9551

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 266 | 100 | | |
| 264 | 62.5 | 51.6 | 77.4 |
| 268 | 63.4 | 53.2 | 79.8 |



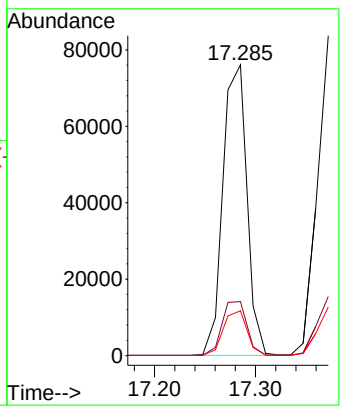


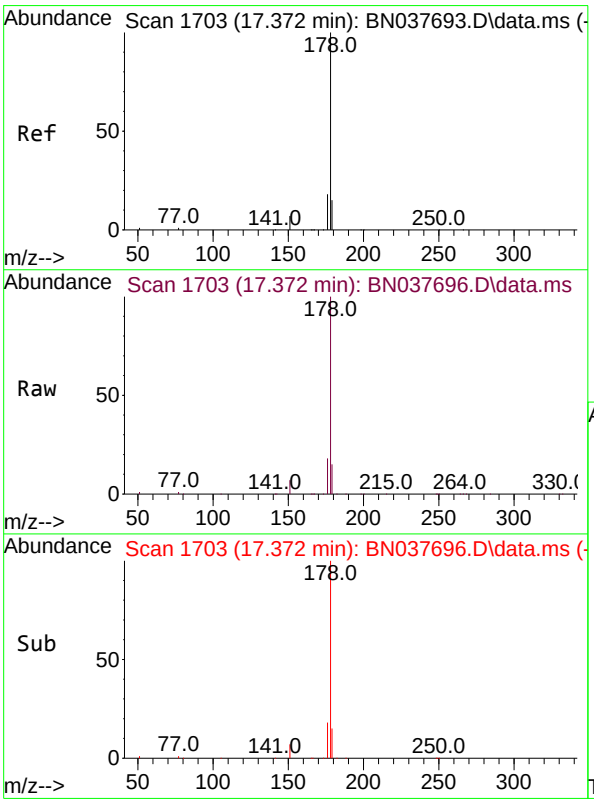

#25
Phenanthrene
Concen: 3.355 ng
RT: 17.285 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN037696.D
Acq: 11 Sep 2025 12:56

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDICC3.2

Tgt Ion:178 Resp: 125980

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 178 | 100 | | |
| 176 | 19.2 | 15.3 | 22.9 |
| 179 | 15.2 | 12.2 | 18.2 |

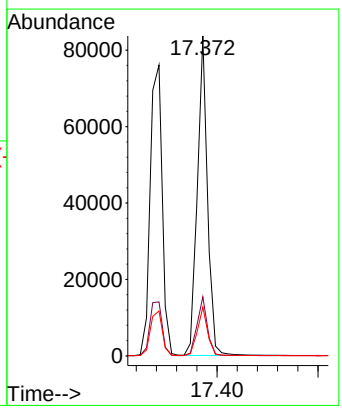


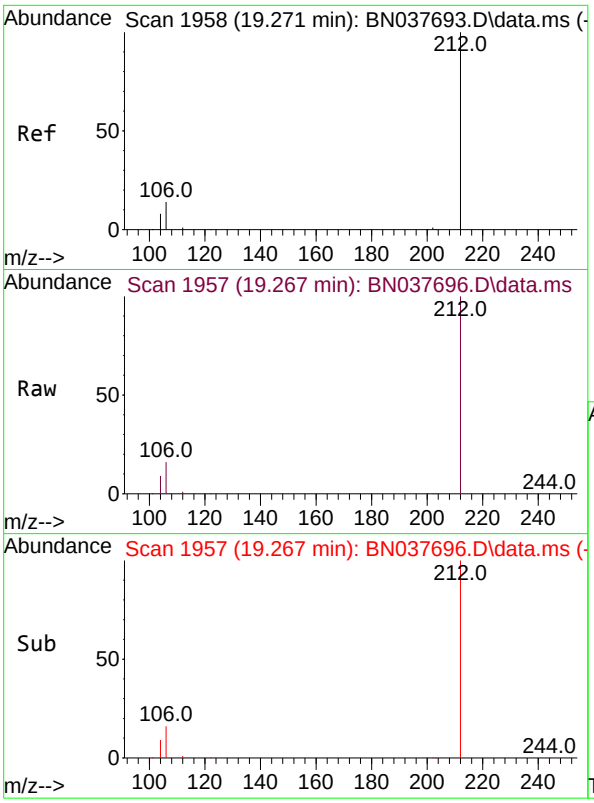




#26
Anthracene
Concen: 3.501 ng
RT: 17.372 min Scan# 1703
Delta R.T. -0.000 min
Lab File: BN037696.D
Acq: 11 Sep 2025 12:56

Tgt Ion:178 Resp: 116443

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 178 | 100 | | |
| 176 | 18.5 | 14.6 | 22.0 |
| 179 | 15.2 | 12.2 | 18.4 |



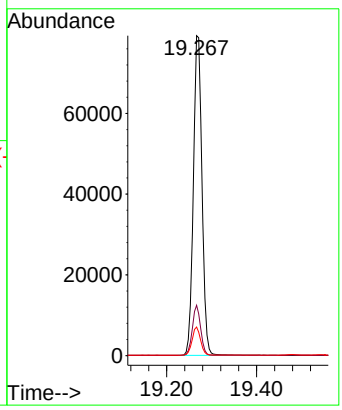


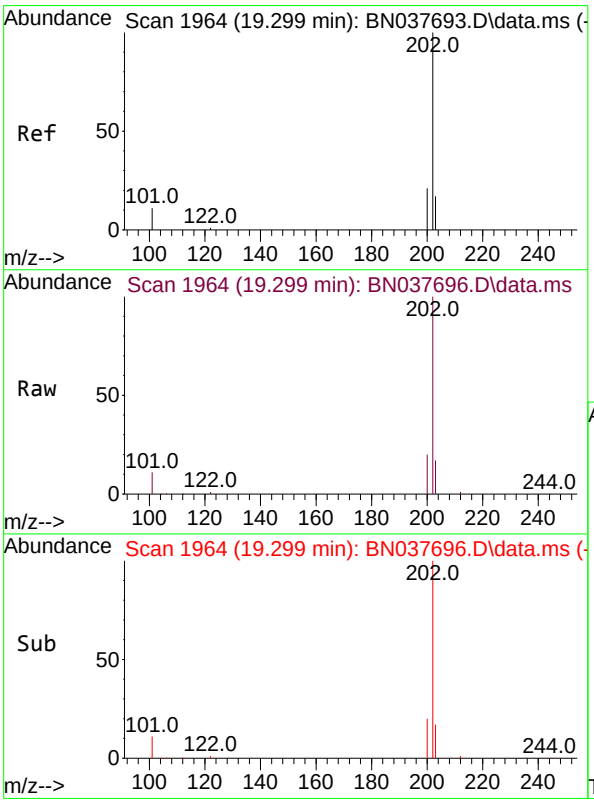

#27
Fluoranthene-d10
Concen: 3.531 ng
RT: 19.267 min Scan# 19
Delta R.T. -0.005 min
Lab File: BN037696.D
Acq: 11 Sep 2025 12:56

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDICC3.2

Tgt Ion:212 Resp: 105719

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 212 | 100 | | |
| 106 | 15.0 | 12.2 | 18.2 |
| 104 | 8.5 | 6.9 | 10.3 |

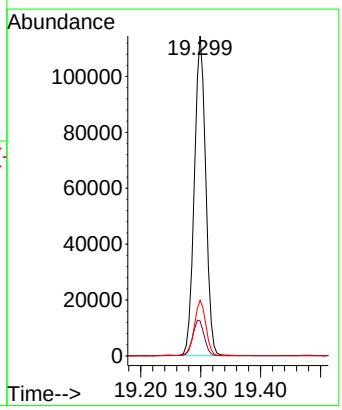


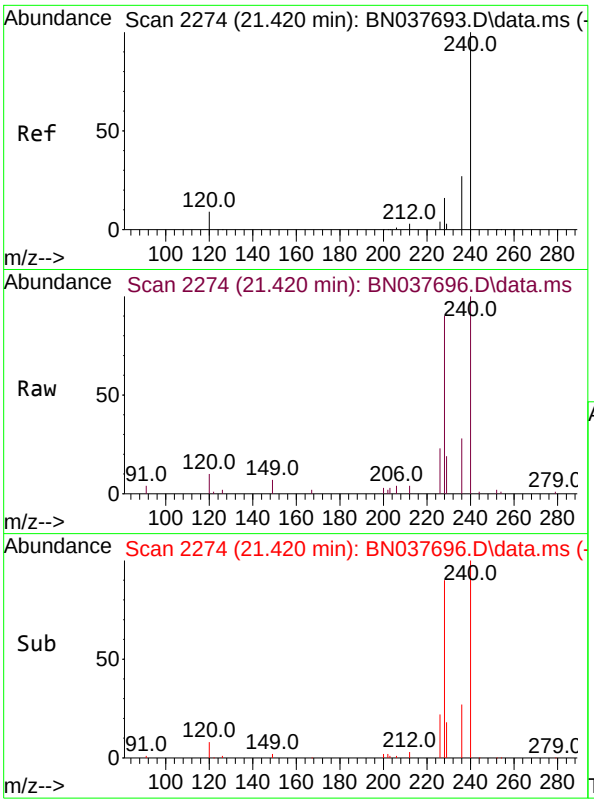




#28
Fluoranthene
Concen: 3.657 ng
RT: 19.299 min Scan# 1964
Delta R.T. -0.000 min
Lab File: BN037696.D
Acq: 11 Sep 2025 12:56

Tgt Ion:202 Resp: 150569

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 202 | 100 | | |
| 101 | 11.5 | 9.3 | 13.9 |
| 203 | 17.3 | 13.7 | 20.5 |



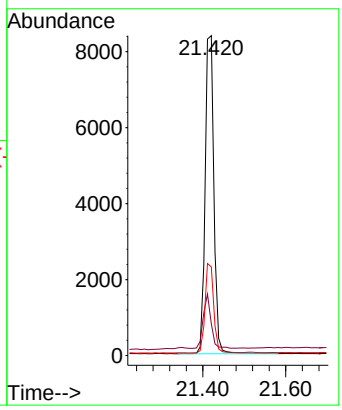


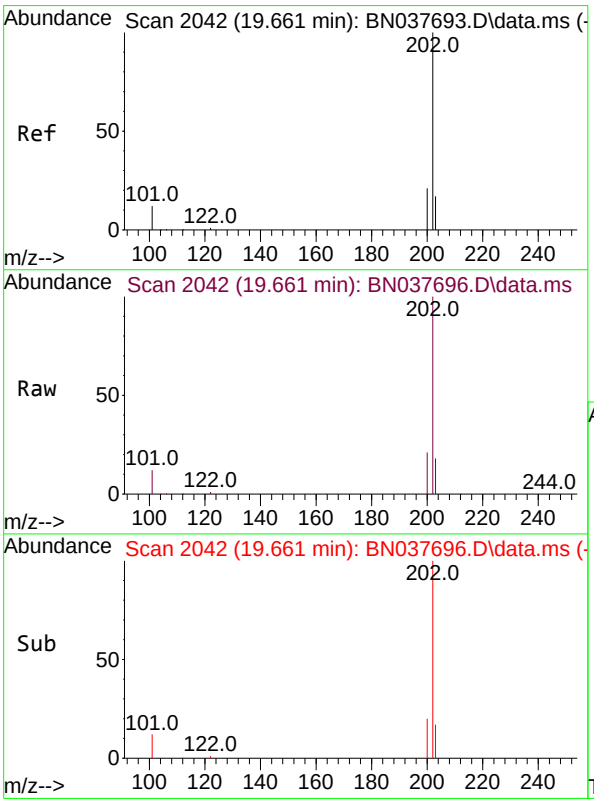

#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.420 min Scan# 2
Delta R.T. -0.000 min
Lab File: BN037696.D
Acq: 11 Sep 2025 12:56

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDICC3.2

Tgt Ion:240 Resp: 12141

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 240 | 100 | | |
| 120 | 9.9 | 9.2 | 13.8 |
| 236 | 27.7 | 22.6 | 33.8 |

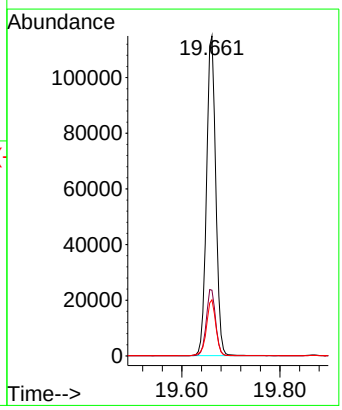


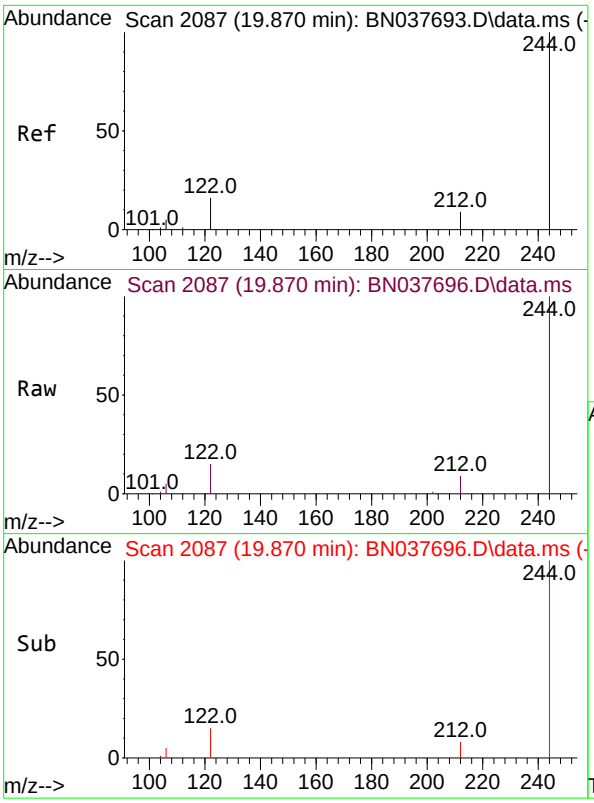




#30
Pyrene
Concen: 3.152 ng
RT: 19.661 min Scan# 2042
Delta R.T. -0.000 min
Lab File: BN037696.D
Acq: 11 Sep 2025 12:56

Tgt Ion:202 Resp: 149814

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 202 | 100 | | |
| 200 | 20.9 | 16.8 | 25.2 |
| 203 | 17.7 | 14.3 | 21.5 |



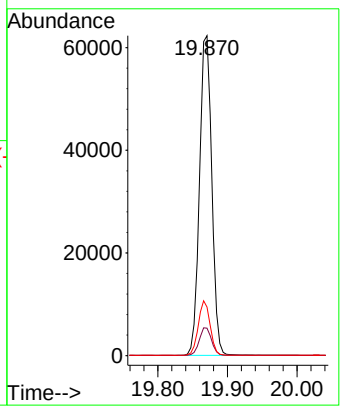


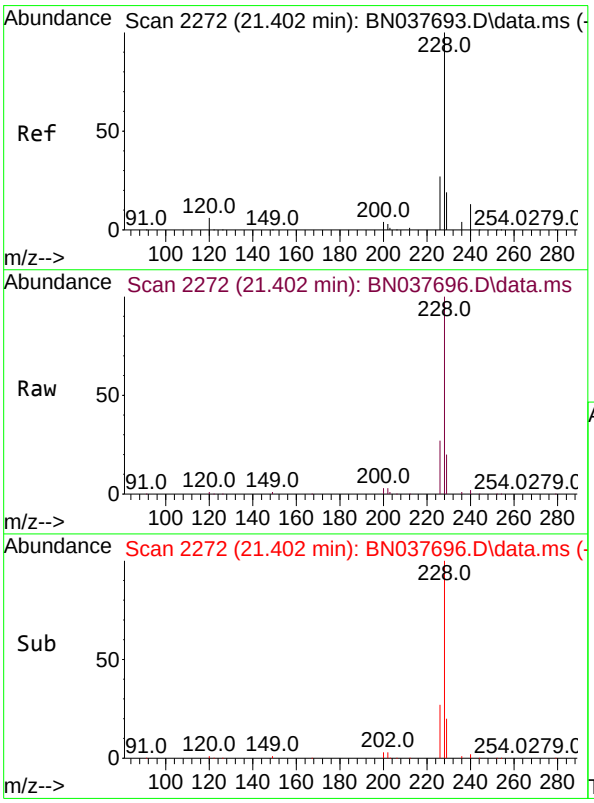

#31
Terphenyl-d14
Concen: 3.090 ng
RT: 19.870 min Scan# 20
Delta R.T. -0.000 min
Lab File: BN037696.D
Acq: 11 Sep 2025 12:56

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDICC3.2

Tgt Ion:244 Resp: 76156

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 244 | 100 | | |
| 212 | 8.6 | 7.5 | 11.3 |
| 122 | 15.2 | 13.2 | 19.8 |

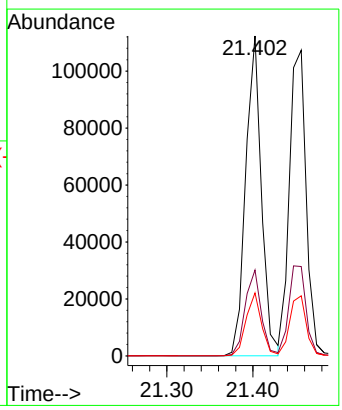


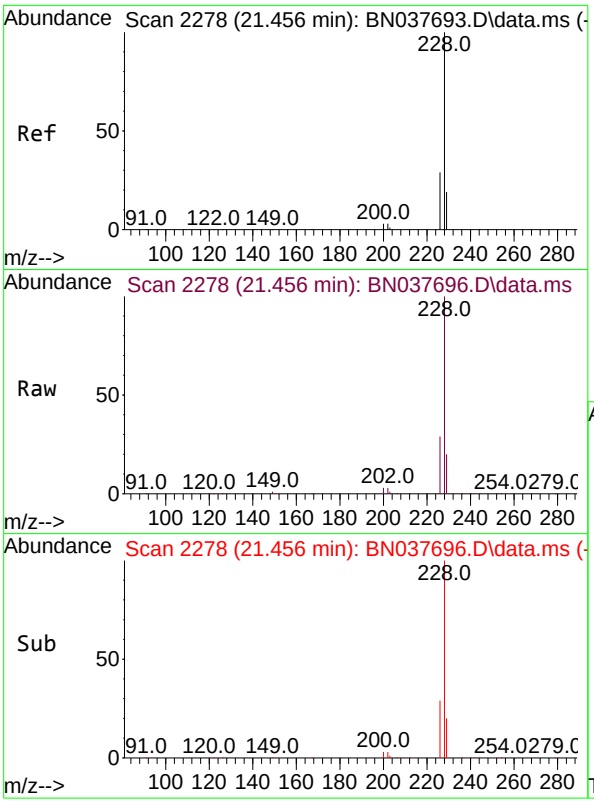




#32
Benzo(a)anthracene
Concen: 3.347 ng
RT: 21.402 min Scan# 2272
Delta R.T. -0.000 min
Lab File: BN037696.D
Acq: 11 Sep 2025 12:56

Tgt Ion:228 Resp: 141736

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 228 | 100 | | |
| 226 | 26.8 | 22.2 | 33.2 |
| 229 | 19.7 | 15.8 | 23.6 |



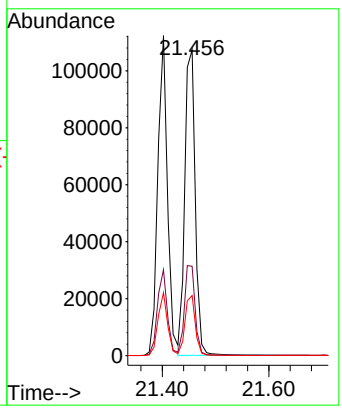


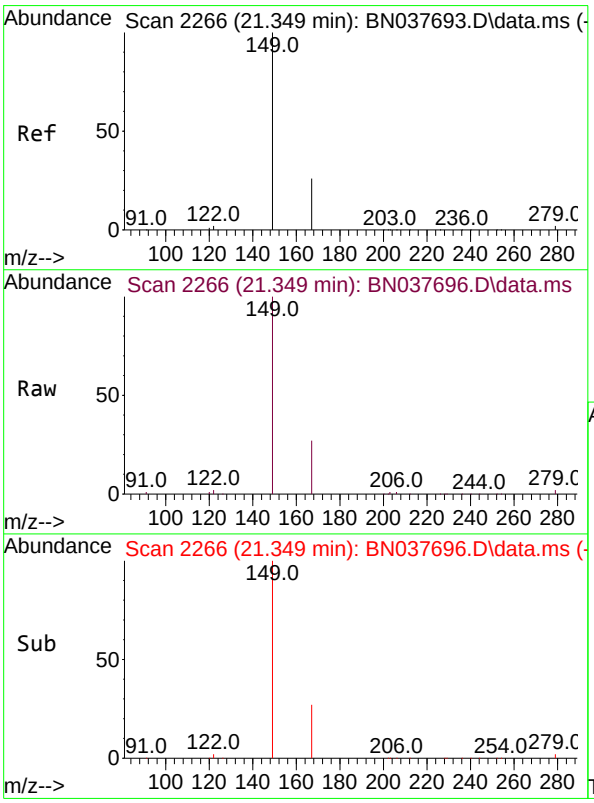

#33
Chrysene
Concen: 3.221 ng
RT: 21.456 min Scan# 2
Delta R.T. -0.000 min
Lab File: BN037696.D
Acq: 11 Sep 2025 12:56

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDICC3.2

Tgt Ion:228 Resp: 146238

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 228 | 100 | | |
| 226 | 29.2 | 23.5 | 35.3 |
| 229 | 19.7 | 15.9 | 23.9 |

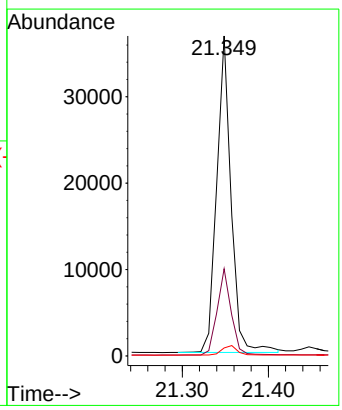


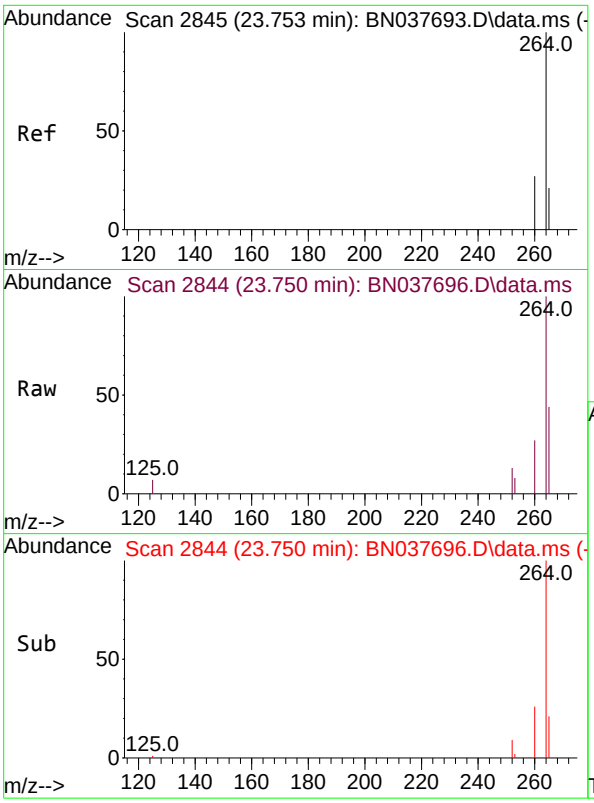




#34
Bis(2-ethylhexyl)phthalate
Concen: 3.385 ng
RT: 21.349 min Scan# 2266
Delta R.T. -0.000 min
Lab File: BN037696.D
Acq: 11 Sep 2025 12:56

Tgt Ion:149 Resp: 42504

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 149 | 100 | | |
| 167 | 26.6 | 20.8 | 31.2 |
| 279 | 3.1 | 3.3 | 4.9# |



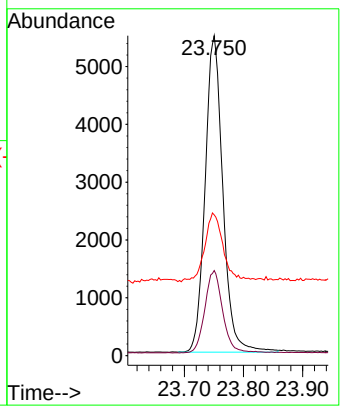


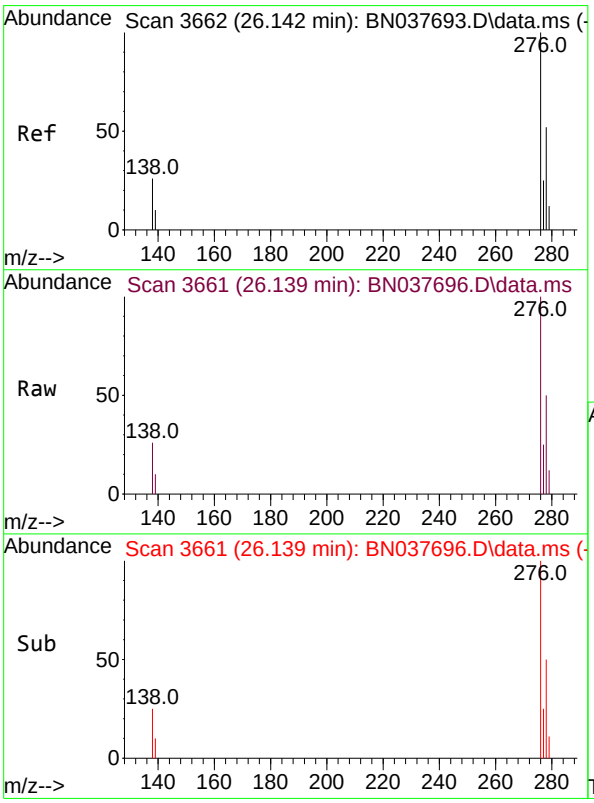

#35
Perylene-d12
Concen: 0.400 ng
RT: 23.750 min Scan# 28
Delta R.T. -0.003 min
Lab File: BN037696.D
Acq: 11 Sep 2025 12:56

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDICC3.2

Tgt Ion:264 Resp: 11403

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 264 | 100 | | |
| 260 | 26.6 | 21.8 | 32.8 |
| 265 | 44.0 | 39.4 | 59.2 |

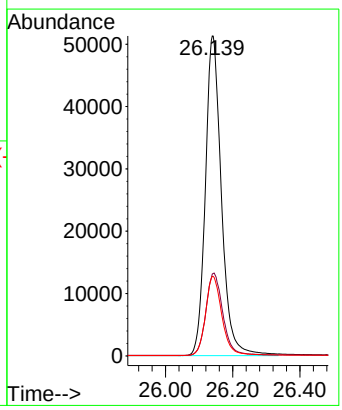


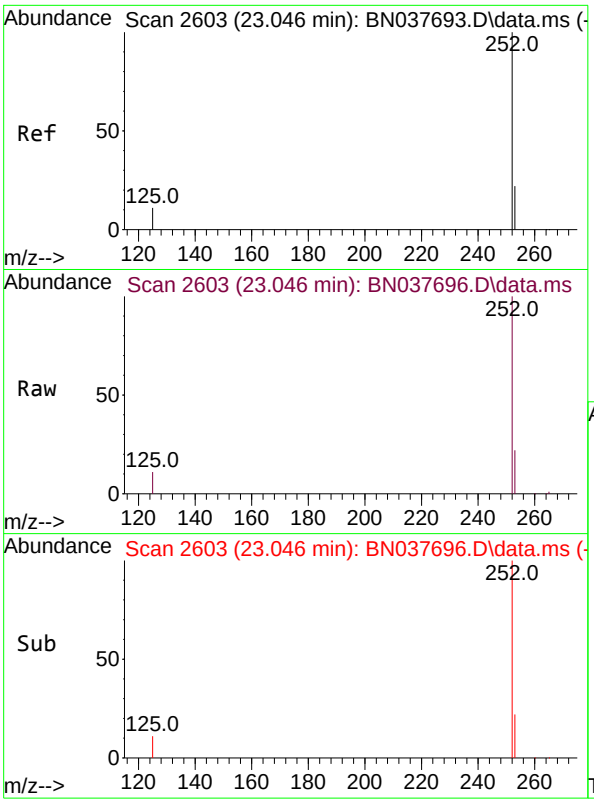




#36
Indeno(1,2,3-cd)pyrene
Concen: 3.551 ng
RT: 26.139 min Scan# 3661
Delta R.T. -0.003 min
Lab File: BN037696.D
Acq: 11 Sep 2025 12:56

Tgt Ion:276 Resp: 170120

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 276 | 100 | | |
| 138 | 27.3 | 21.9 | 32.9 |
| 277 | 25.3 | 20.1 | 30.1 |



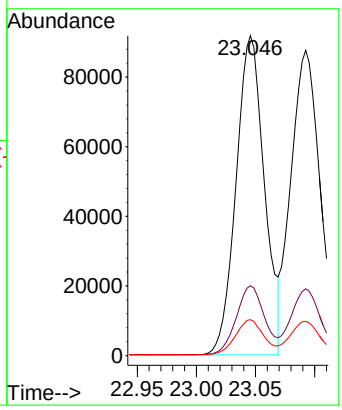


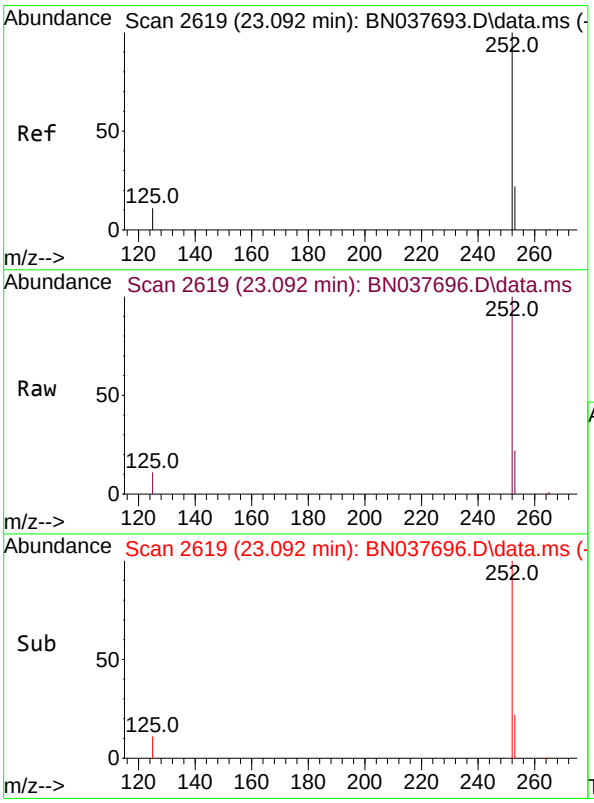

#37
Benzo(b)fluoranthene
Concen: 3.401 ng
RT: 23.046 min Scan# 2
Delta R.T. -0.000 min
Lab File: BN037696.D
Acq: 11 Sep 2025 12:56

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDICC3.2

Tgt Ion:252 Resp: 152726

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 21.8 | 19.4 | 29.2 |
| 125 | 11.2 | 11.2 | 16.8 |

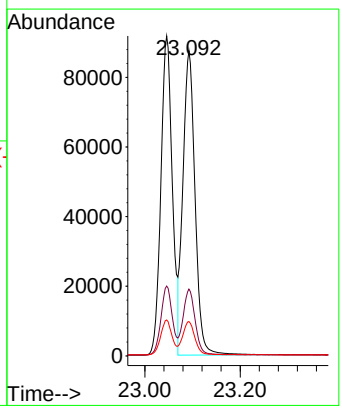


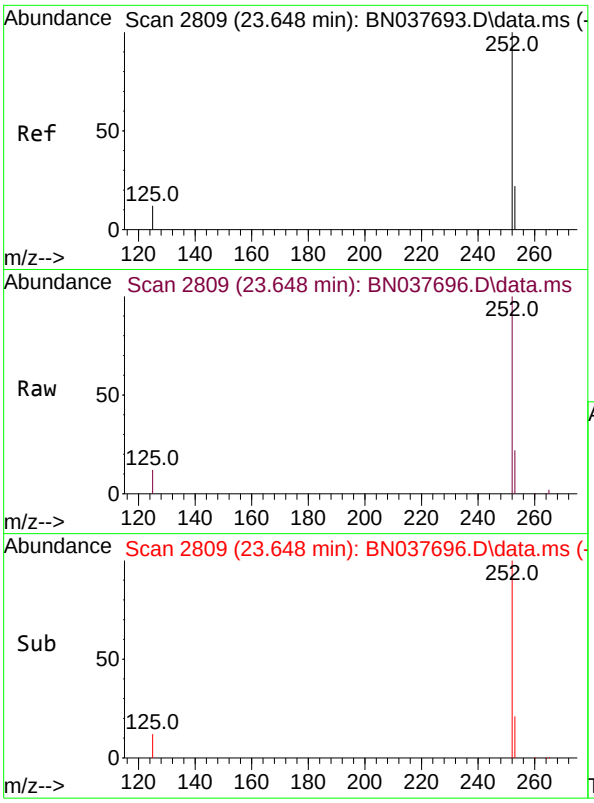




#38
Benzo(k)fluoranthene
Concen: 3.378 ng
RT: 23.092 min Scan# 2619
Delta R.T. -0.000 min
Lab File: BN037696.D
Acq: 11 Sep 2025 12:56

Tgt Ion:252 Resp: 154690

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 21.9 | 19.4 | 29.0 |
| 125 | 11.3 | 11.6 | 17.4# |



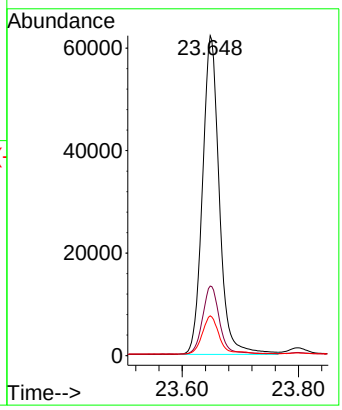


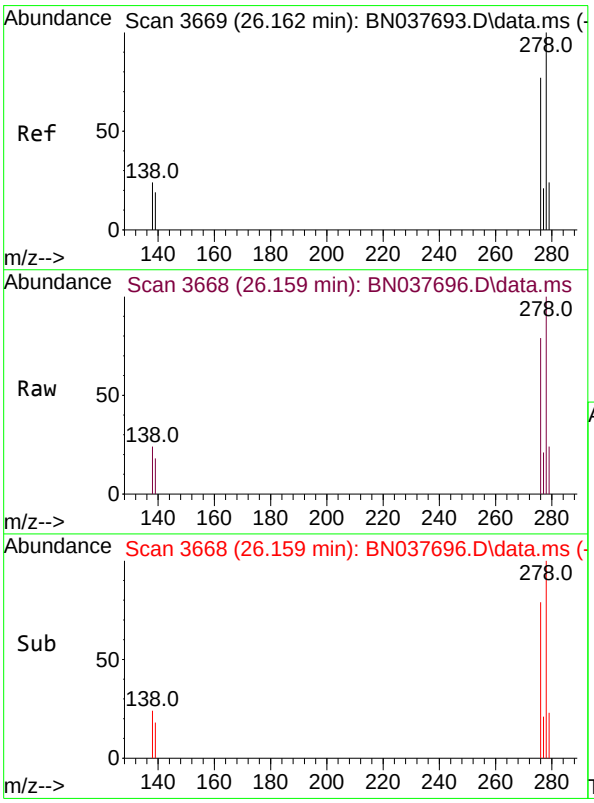

#39
Benzo(a)pyrene
Concen: 3.469 ng
RT: 23.648 min Scan# 28
Delta R.T. -0.000 min
Lab File: BN037696.D
Acq: 11 Sep 2025 12:56

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDICC3.2

Tgt Ion:252 Resp: 124741

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 21.7 | 20.8 | 31.2 |
| 125 | 12.4 | 13.9 | 20.9# |

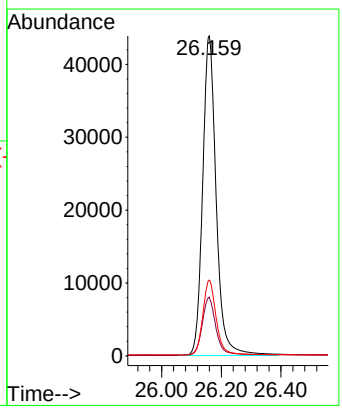


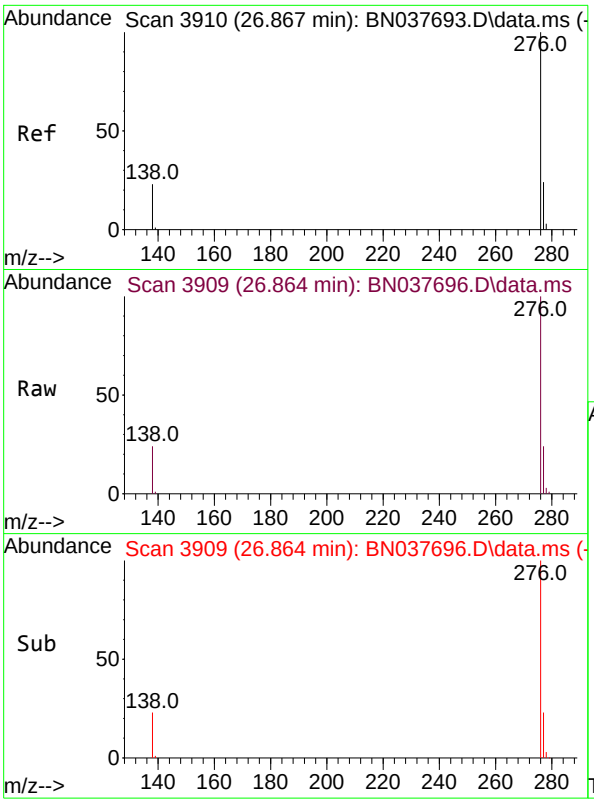




#40
Dibenzo(a,h)anthracene
Concen: 3.623 ng
RT: 26.159 min Scan# 3668
Delta R.T. -0.003 min
Lab File: BN037696.D
Acq: 11 Sep 2025 12:56

Tgt Ion:278 Resp: 138597

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 278 | 100 | | |
| 139 | 18.4 | 17.8 | 26.6 |
| 279 | 23.7 | 22.0 | 33.0 |



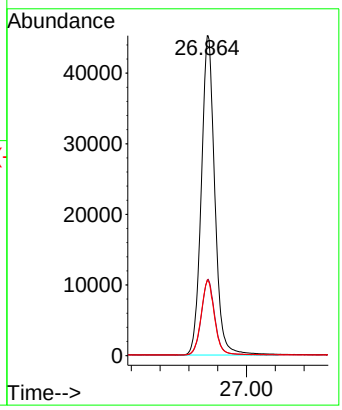



#41
Benzo(g,h,i)perylene
Concen: 3.415 ng
RT: 26.864 min Scan# 3
Delta R.T. -0.003 min
Lab File: BN037696.D
Acq: 11 Sep 2025 12:56

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDICC3.2

Tgt Ion:276 Resp: 146601

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 276 | 100 | | |
| 277 | 23.6 | 20.6 | 31.0 |
| 138 | 23.6 | 20.2 | 30.2 |



ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN091125\
Data File : BN037697.D
Acq On : 11 Sep 2025 13:33
Operator : RC/JU
Sample : SSTDICC5.0
Misc :
ALS Vial : 9 Sample Multiplier: 1

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDICC5.0

Quant Time: Sep 11 14:07:42 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN091125.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Sep 11 14:02:44 2025
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| Internal Standards | | | | | | | |
| 1) 1,4-Dichlorobenzene-d4 | 7.840 | 152 | 5654 | 0.400 | ng | | 0.00 |
| 7) Naphthalene-d8 | 10.648 | 136 | 14362 | 0.400 | ng | | 0.00 |
| 13) Acenaphthene-d10 | 14.495 | 164 | 7056 | 0.400 | ng | | 0.00 |
| 19) Phenanthrene-d10 | 17.235 | 188 | 12767 | 0.400 | ng | | 0.00 |
| 29) Chrysene-d12 | 21.420 | 240 | 13060 | 0.400 | ng | | 0.00 |
| 35) Perylene-d12 | 23.753 | 264 | 12009 | 0.400 | ng | | 0.00 |
| System Monitoring Compounds | | | | | | | |
| 4) 2-Fluorophenol | 5.399 | 112 | 70949 | 5.466 | ng | | 0.00 |
| 5) Phenol-d6 | 6.988 | 99 | 91084 | 5.412 | ng | | 0.00 |
| 8) Nitrobenzene-d5 | 8.993 | 82 | 58397 | 5.559 | ng | | 0.00 |
| 11) 2-Methylnaphthalene-d10 | 12.243 | 152 | 119992 | 6.306 | ng | | 0.00 |
| 14) 2,4,6-Tribromophenol | 0.000 | 330 | 0d | 0.000 | ng | | |
| 15) 2-Fluorobiphenyl | 13.115 | 172 | 157398 | 5.334 | ng | | 0.00 |
| 27) Fluoranthene-d10 | 19.271 | 212 | 215419 | 6.721 | ng | | 0.00 |
| 31) Terphenyl-d14 | 19.870 | 244 | 145595 | 5.493 | ng | | 0.00 |
| Target Compounds | | | | | | | Qvalue |
| 2) 1,4-Dioxane | 3.304 | 88 | 27447 | 4.661 | ng | | 97 |
| 3) n-Nitrosodimethylamine | 3.601 | 42 | 38960 | 5.064 | ng | # | 93 |
| 6) bis(2-Chloroethyl)ether | 7.255 | 93 | 75108 | 4.995 | ng | | 100 |
| 9) Naphthalene | 10.690 | 128 | 206218 | 5.253 | ng | | 99 |
| 10) Hexachlorobutadiene | 11.000 | 225 | 36218 | 5.099 | ng | # | 100 |
| 12) 2-Methylnaphthalene | 12.314 | 142 | 132802 | 5.469 | ng | | 99 |
| 16) Acenaphthylene | 14.217 | 152 | 178140 | 5.505 | ng | | 100 |
| 17) Acenaphthene | 14.559 | 154 | 118915 | 5.435 | ng | | 97 |
| 18) Fluorene | 15.535 | 166 | 147419 | 5.563 | ng | | 99 |
| 21) 4-Bromophenyl-phenylether | 16.441 | 248 | 45357 | 5.448 | ng | | 98 |
| 22) Hexachlorobenzene | 16.553 | 284 | 49411 | 5.160 | ng | | 99 |
| 23) Atrazine | 16.702 | 200 | 33341 | 6.295 | ng | | 96 |
| 24) Pentachlorophenol | 16.888 | 266 | 18297 | 6.581 | ng | | 97 |
| 25) Phenanthrene | 17.285 | 178 | 218722 | 5.441 | ng | | 100 |
| 26) Anthracene | 17.372 | 178 | 204421 | 5.741 | ng | | 100 |
| 28) Fluoranthene | 19.299 | 202 | 261250 | 5.926 | ng | | 99 |
| 30) Pyrene | 19.661 | 202 | 259551 | 5.077 | ng | | 100 |
| 32) Benzo(a)anthracene | 21.402 | 228 | 248434 | 5.454 | ng | | 99 |
| 33) Chrysene | 21.456 | 228 | 251956 | 5.158 | ng | | 100 |
| 34) Bis(2-ethylhexyl)phtha... | 21.349 | 149 | 82262 | 6.091 | ng | # | 99 |
| 36) Indeno(1,2,3-cd)pyrene | 26.145 | 276 | 303960 | 6.024 | ng | | 99 |
| 37) Benzo(b)fluoranthene | 23.049 | 252 | 266973 | 5.645 | ng | # | 94 |
| 38) Benzo(k)fluoranthene | 23.093 | 252 | 263641 | 5.466 | ng | # | 94 |
| 39) Benzo(a)pyrene | 23.651 | 252 | 220208 | 5.816 | ng | # | 90 |
| 40) Dibenzo(a,h)anthracene | 26.162 | 278 | 245606 | 6.096 | ng | # | 91 |
| 41) Benzo(g,h,i)perylene | 26.867 | 276 | 258594 | 5.720 | ng | | 95 |

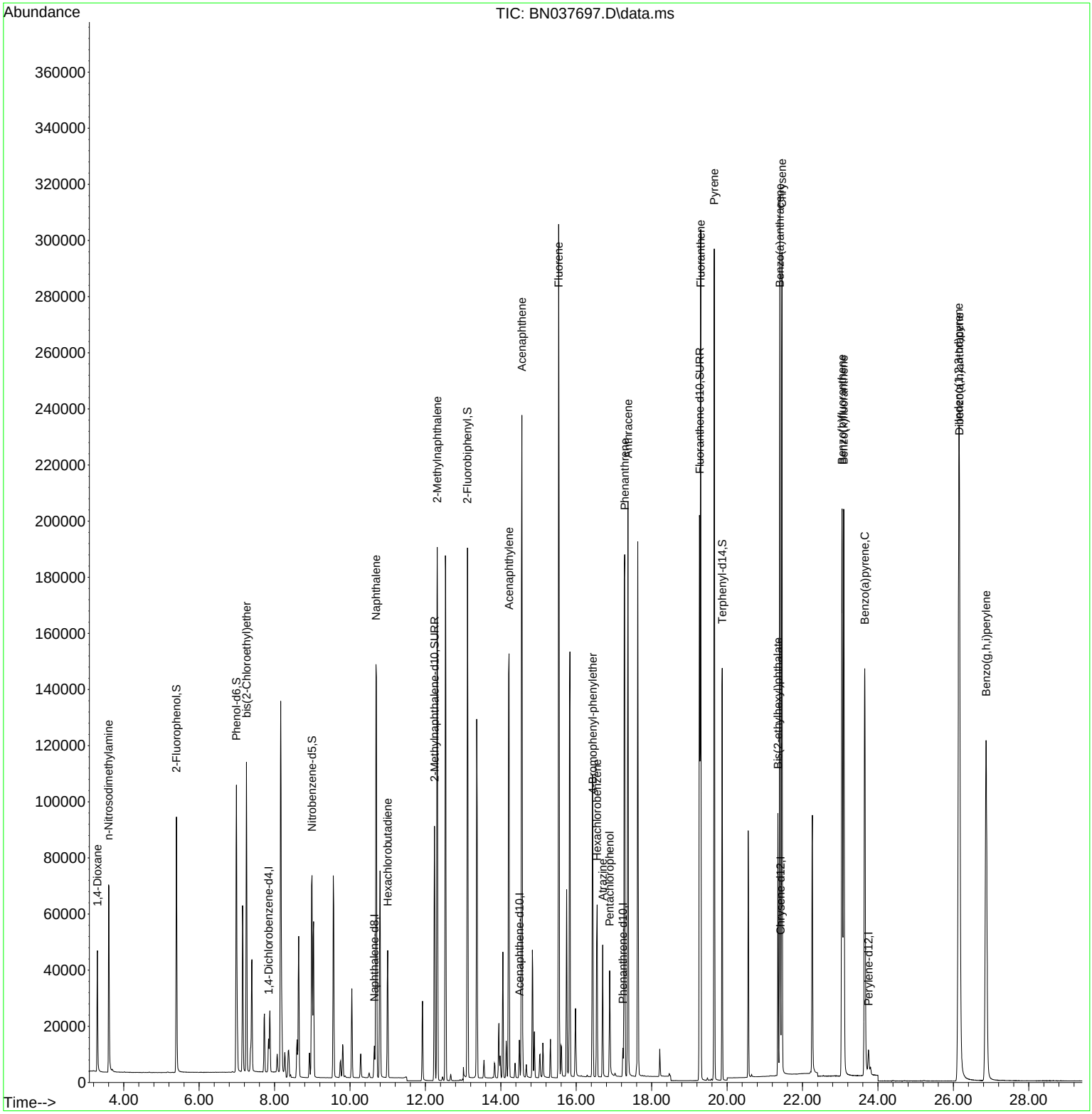
(#) = qualifier out of range (m) = manual integration (+) = signals summed

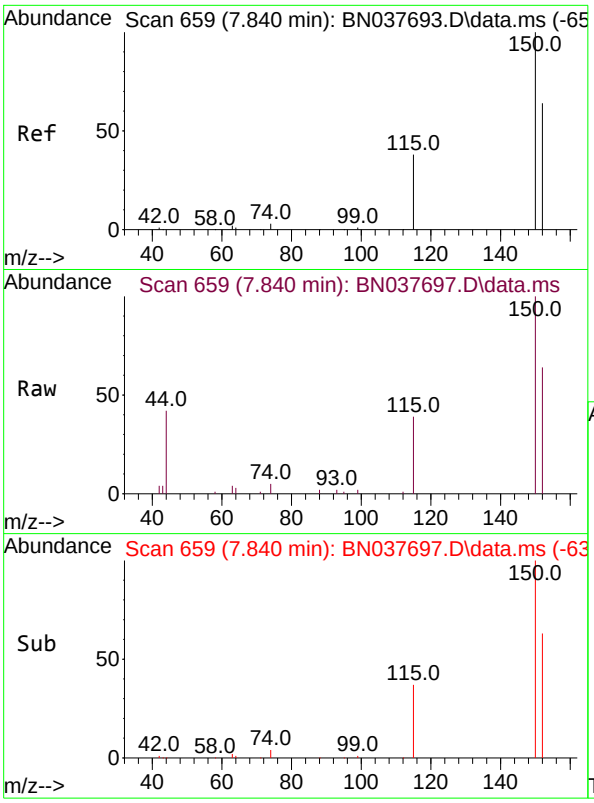
ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN091125\
Data File : BN037697.D
Acq On : 11 Sep 2025 13:33
Operator : RC/JU
Sample : SSTDICC5.0
Misc :
ALS Vial : 9 Sample Multiplier: 1

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDICC5.0

Quant Time: Sep 11 14:07:42 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN091125.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Sep 11 14:02:44 2025
Response via : Initial Calibration



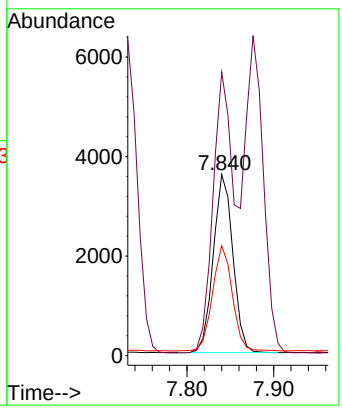


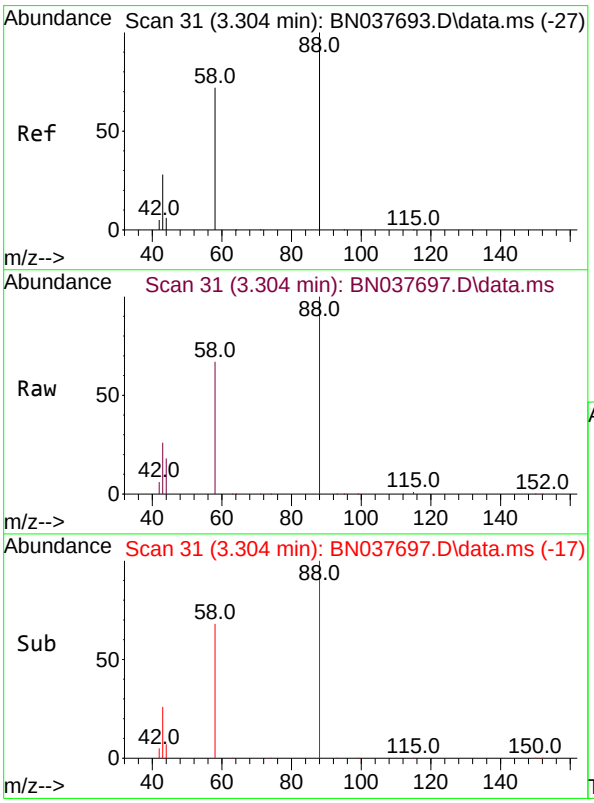

#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.840 min Scan# 6
Delta R.T. 0.000 min
Lab File: BN037697.D
Acq: 11 Sep 2025 13:33

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDICC5.0

Tgt Ion:152 Resp: 5654

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 150 | 156.6 | 124.5 | 186.7 |
| 115 | 60.7 | 49.2 | 73.8 |

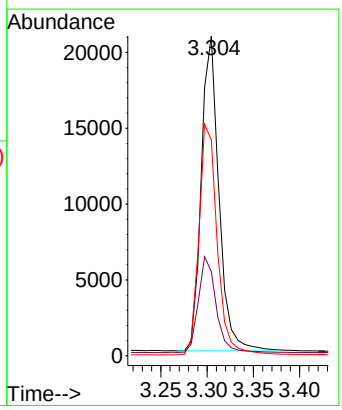


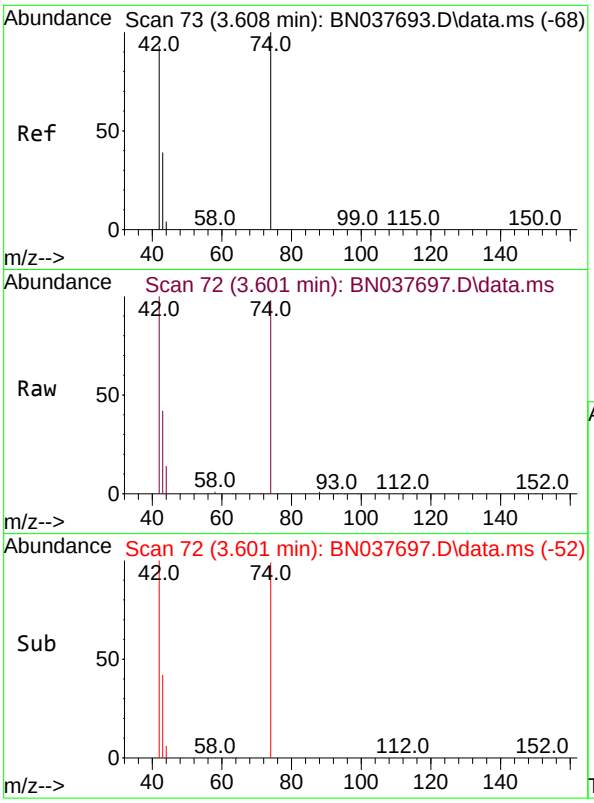




#2
1,4-Dioxane
Concen: 4.661 ng
RT: 3.304 min Scan# 31
Delta R.T. 0.000 min
Lab File: BN037697.D
Acq: 11 Sep 2025 13:33

Tgt Ion: 88 Resp: 27447

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 88 | 100 | | |
| 43 | 30.7 | 26.8 | 40.2 |
| 58 | 76.0 | 61.9 | 92.9 |



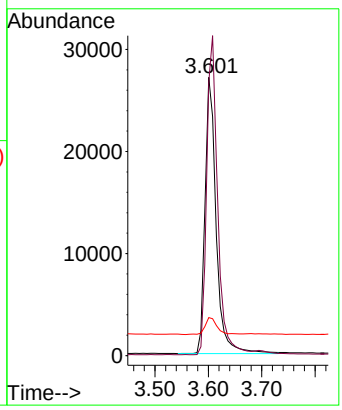


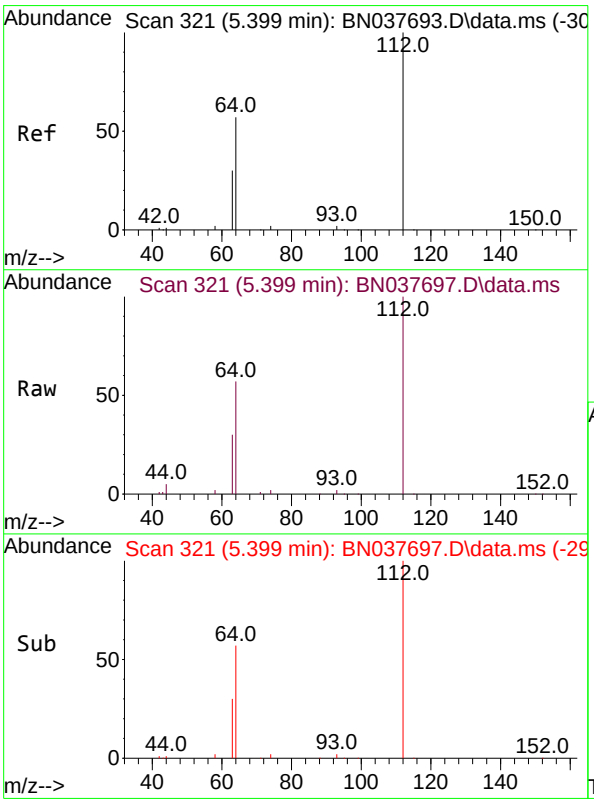

#3
n-Nitrosodimethylamine
Concen: 5.064 ng
RT: 3.601 min Scan# 7
Delta R.T. -0.007 min
Lab File: BN037697.D
Acq: 11 Sep 2025 13:33

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDICC5.0

Tgt Ion: 42 Resp: 38960

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 42 | 100 | | |
| 74 | 114.1 | 86.0 | 129.0 |
| 44 | 6.6 | 8.4 | 12.6# |

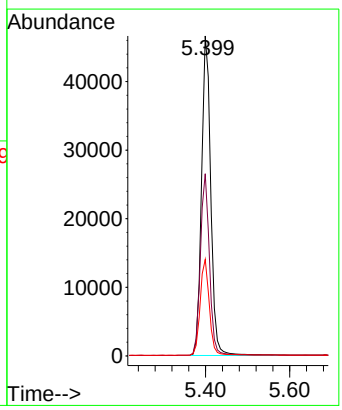


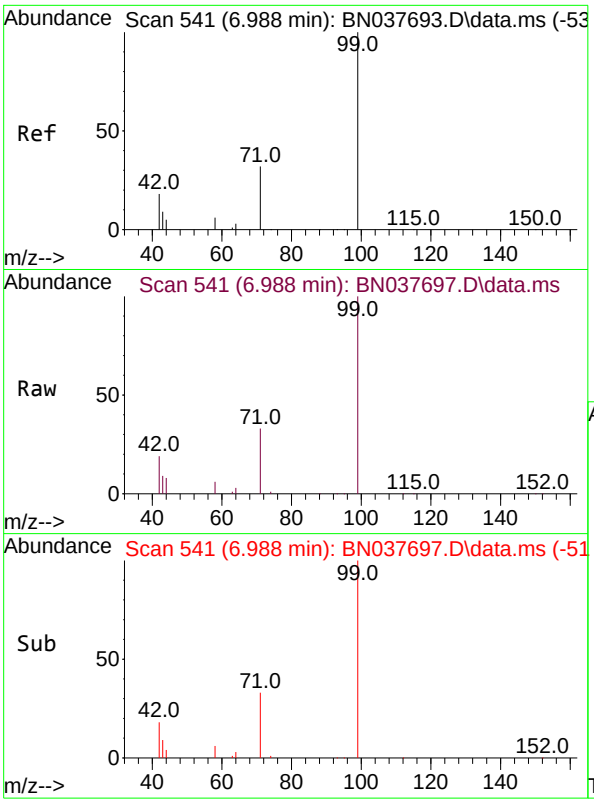




#4
2-Fluorophenol
Concen: 5.466 ng
RT: 5.399 min Scan# 321
Delta R.T. 0.000 min
Lab File: BN037697.D
Acq: 11 Sep 2025 13:33

Tgt Ion:112 Resp: 70949

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 112 | 100 | | |
| 64 | 56.2 | 44.9 | 67.3 |
| 63 | 30.0 | 24.7 | 37.1 |



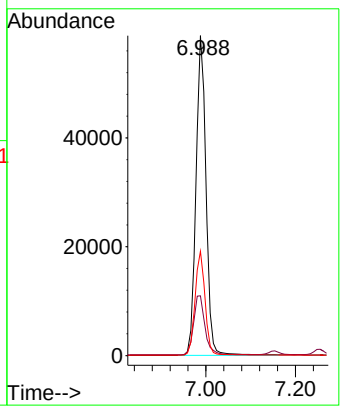


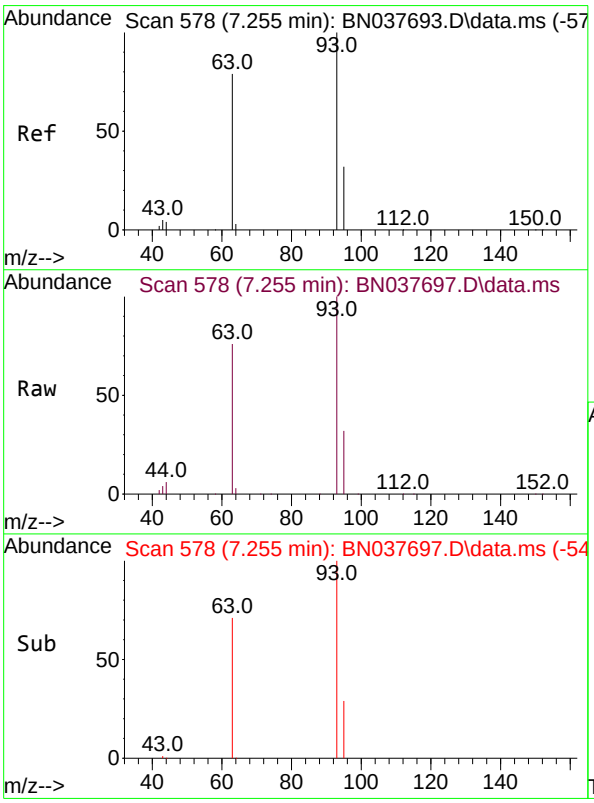

#5
Phenol-d6
Concen: 5.412 ng
RT: 6.988 min Scan# 54
Delta R.T. 0.000 min
Lab File: BN037697.D
Acq: 11 Sep 2025 13:33

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDICC5.0

Tgt Ion: 99 Resp: 91084

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 99 | 100 | | |
| 42 | 20.8 | 16.6 | 24.8 |
| 71 | 32.6 | 26.7 | 40.1 |

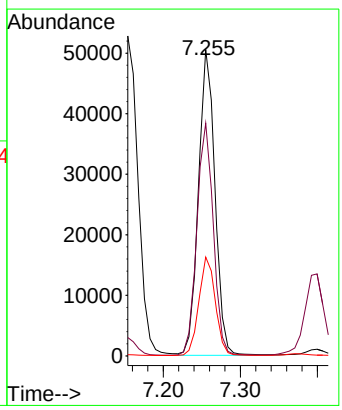


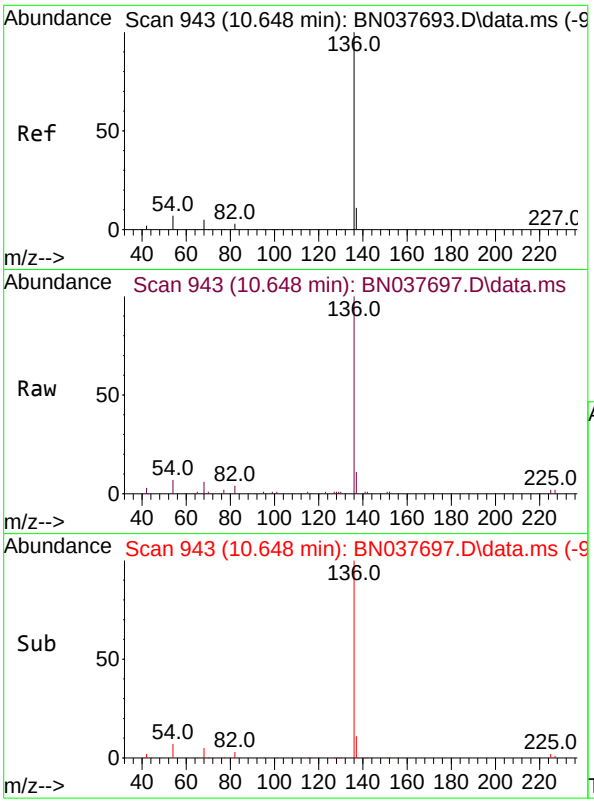




#6
bis(2-Chloroethyl)ether
Concen: 4.995 ng
RT: 7.255 min Scan# 578
Delta R.T. 0.000 min
Lab File: BN037697.D
Acq: 11 Sep 2025 13:33

Tgt Ion: 93 Resp: 75108

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 93 | 100 | | |
| 63 | 75.4 | 60.6 | 90.8 |
| 95 | 32.1 | 26.0 | 39.0 |



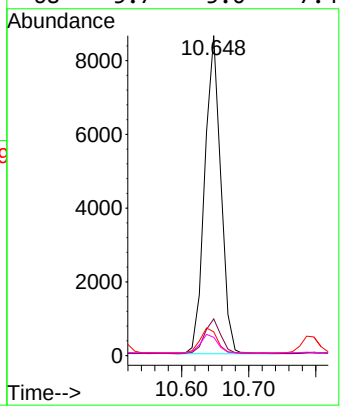


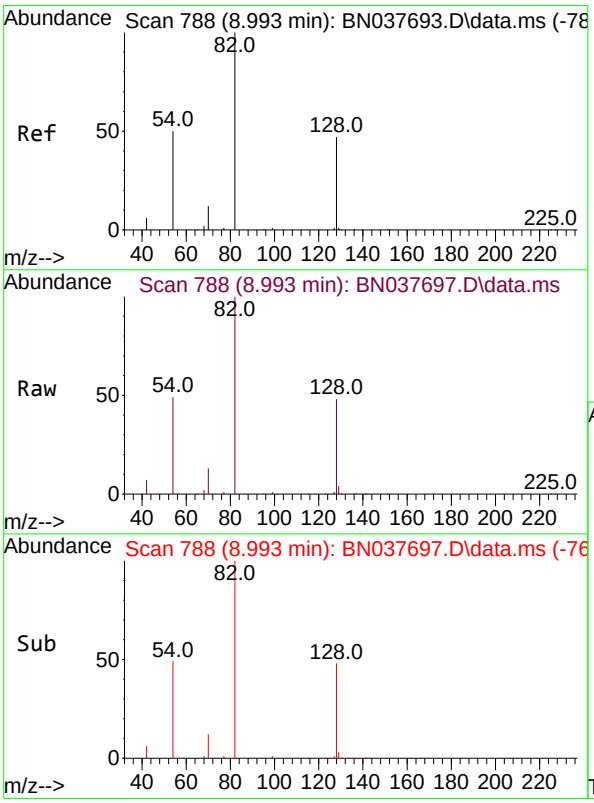

#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.648 min Scan# 94
Delta R.T. 0.000 min
Lab File: BN037697.D
Acq: 11 Sep 2025 13:33

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDICC5.0

Tgt Ion:136 Resp: 14362

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 136 | 100 | | |
| 137 | 11.5 | 9.1 | 13.7 |
| 54 | 7.4 | 6.3 | 9.5 |
| 68 | 5.7 | 5.0 | 7.4 |

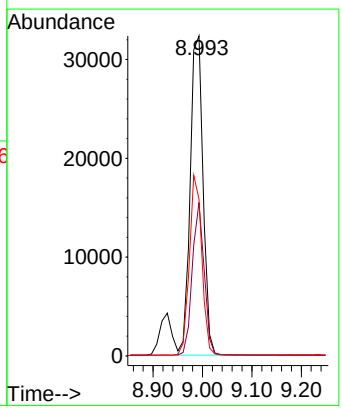


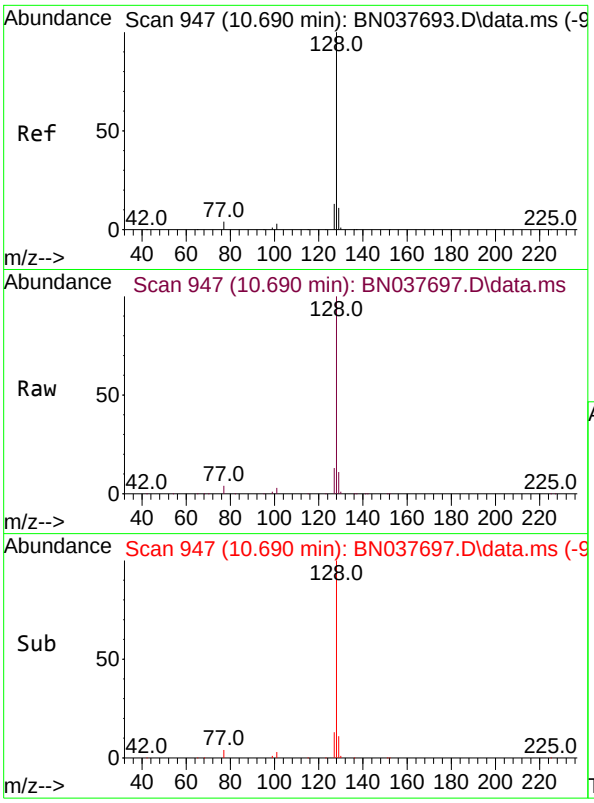




#8
Nitrobenzene-d5
Concen: 5.559 ng
RT: 8.993 min Scan# 788
Delta R.T. 0.000 min
Lab File: BN037697.D
Acq: 11 Sep 2025 13:33

Tgt Ion: 82 Resp: 58397

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 82 | 100 | | |
| 128 | 47.9 | 38.3 | 57.5 |
| 54 | 49.0 | 41.4 | 62.2 |



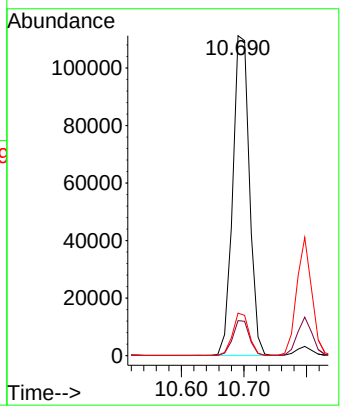


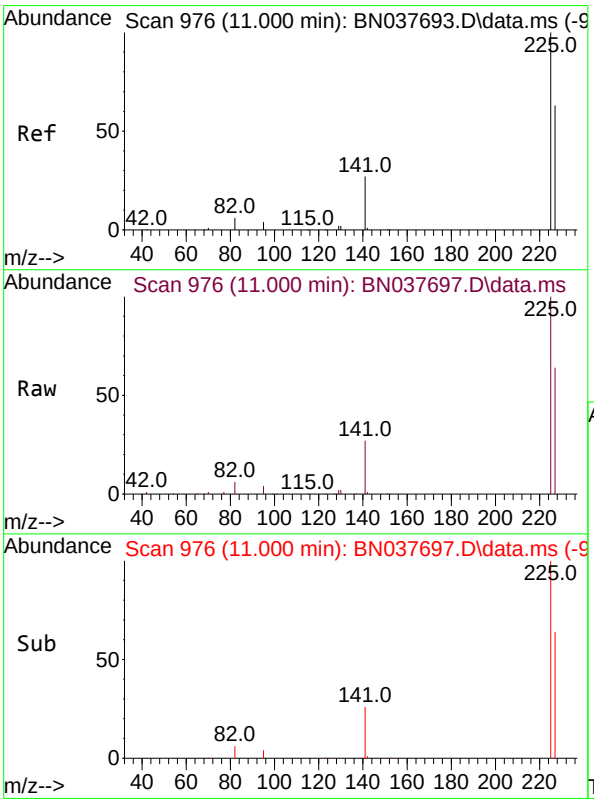

#9
Naphthalene
Concen: 5.253 ng
RT: 10.690 min Scan# 94
Delta R.T. 0.000 min
Lab File: BN037697.D
Acq: 11 Sep 2025 13:33

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDICC5.0

Tgt Ion:128 Resp: 206218

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 128 | 100 | | |
| 129 | 10.9 | 9.1 | 13.7 |
| 127 | 13.3 | 10.9 | 16.3 |

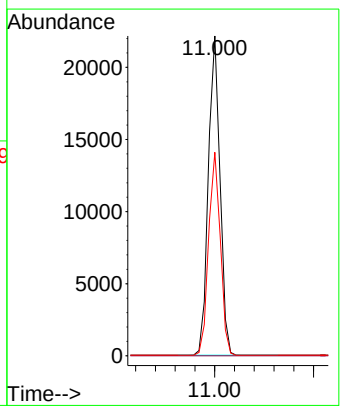


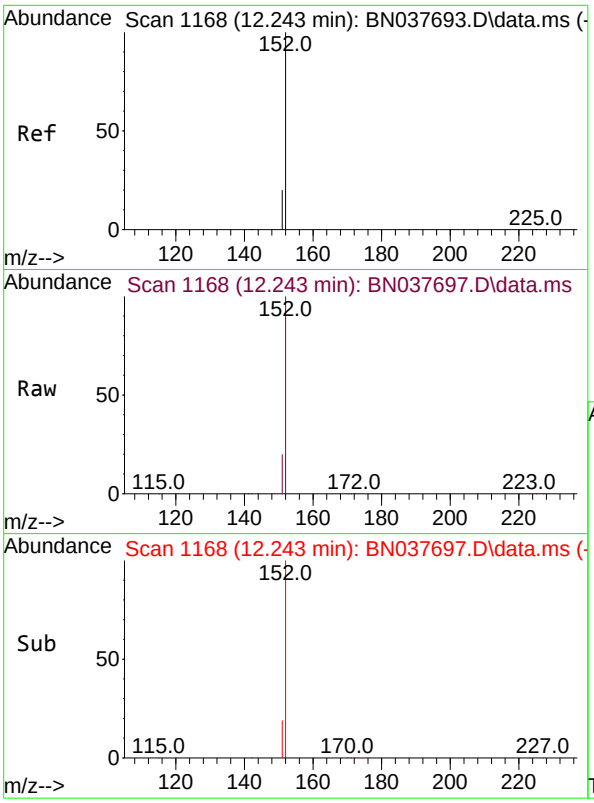




#10
Hexachlorobutadiene
Concen: 5.099 ng
RT: 11.000 min Scan# 976
Delta R.T. 0.000 min
Lab File: BN037697.D
Acq: 11 Sep 2025 13:33

Tgt Ion:225 Resp: 36218

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 225 | 100 | | |
| 223 | 0.0 | 0.0 | 0.0 |
| 227 | 63.8 | 50.9 | 76.3 |



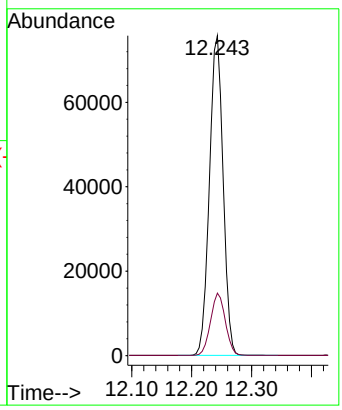


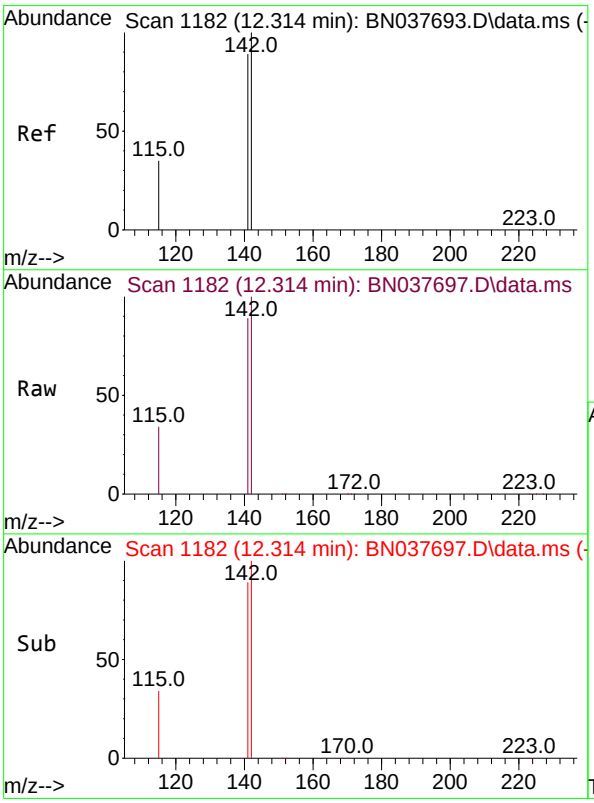

#11
2-Methylnaphthalene-d10
Concen: 6.306 ng
RT: 12.243 min Scan# 11
Delta R.T. 0.000 min
Lab File: BN037697.D
Acq: 11 Sep 2025 13:33

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDICC5.0

Tgt Ion:152 Resp: 119992

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

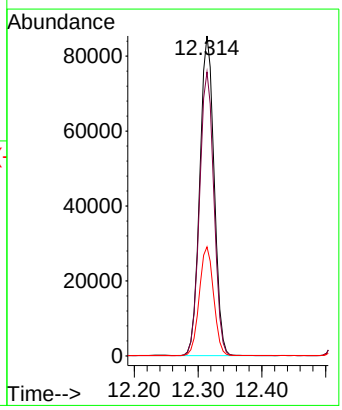


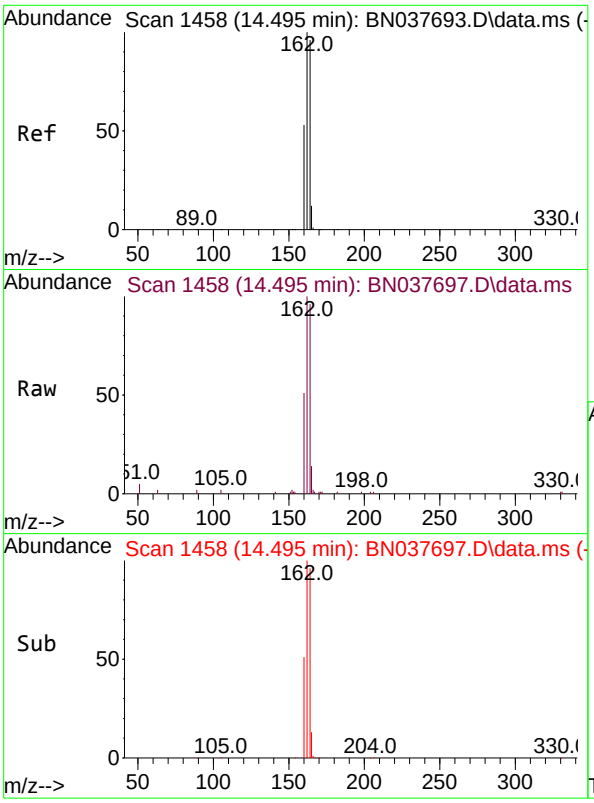




#12
2-Methylnaphthalene
Concen: 5.469 ng
RT: 12.314 min Scan# 1182
Delta R.T. 0.000 min
Lab File: BN037697.D
Acq: 11 Sep 2025 13:33

Tgt Ion:142 Resp: 132802

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 142 | 100 | | |
| 141 | 88.7 | 71.6 | 107.4 |
| 115 | 34.1 | 28.6 | 43.0 |



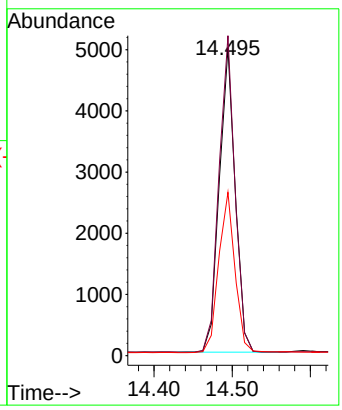


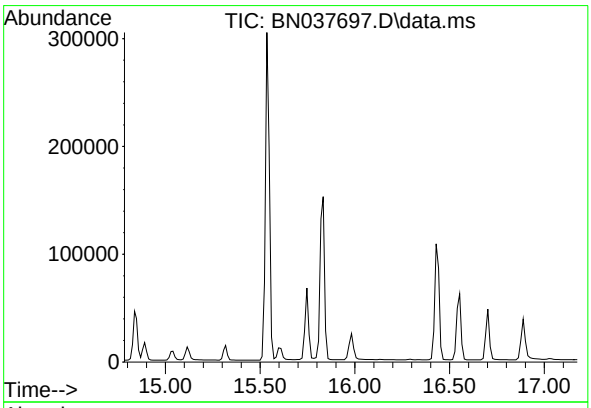

#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.495 min Scan# 14
Delta R.T. 0.000 min
Lab File: BN037697.D
Acq: 11 Sep 2025 13:33

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDICC5.0

Tgt Ion:164 Resp: 7056

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 164 | 100 | | |
| 162 | 104.0 | 83.1 | 124.7 |
| 160 | 53.1 | 44.3 | 66.5 |



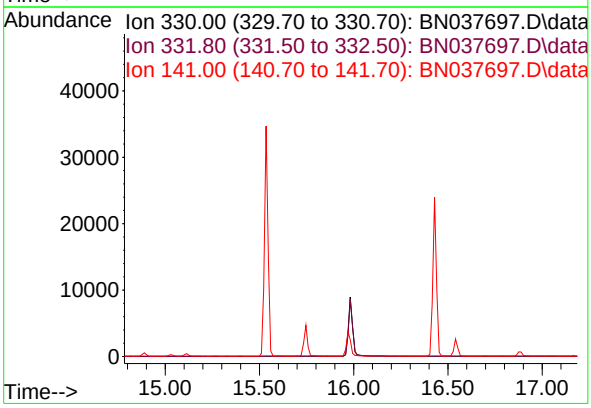



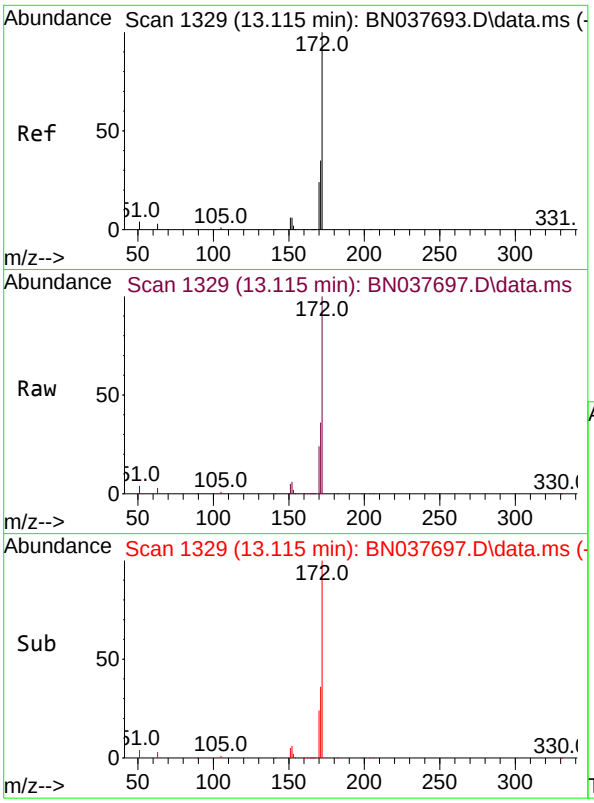

#14
2,4,6-Tribromophenol
Concen: 0.000 ng
Expected RT: 15.98 min

Lab File: BN037697.D
Acq: 11 Sep 2025 13:33

Tgt Ion: 330

| Sig | Exp Ratio |
|---|---|
| 330 | 100 |
| 332 | 94.1 |
| 141 | 43.7 |



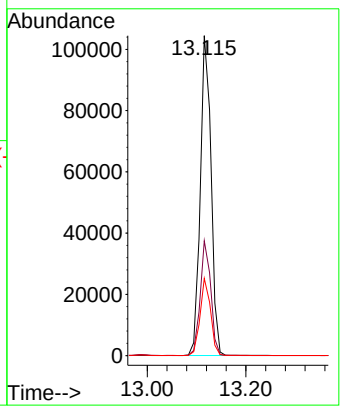


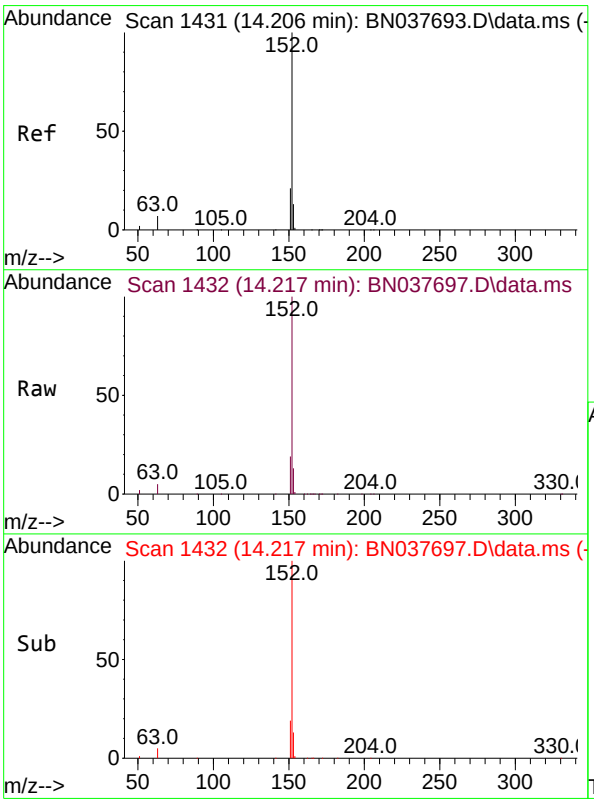

#15
2-Fluorobiphenyl
Concen: 5.334 ng
RT: 13.115 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN037697.D
Acq: 11 Sep 2025 13:33

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDICC5.0

Tgt Ion:172 Resp: 157398

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 172 | 100 | | |
| 171 | 35.9 | 28.6 | 43.0 |
| 170 | 24.1 | 19.8 | 29.8 |

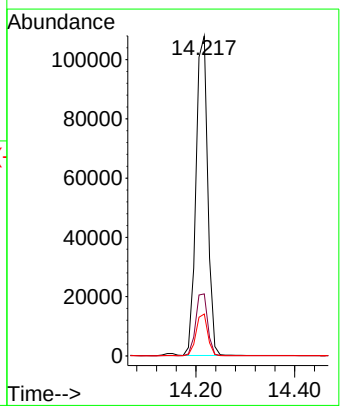


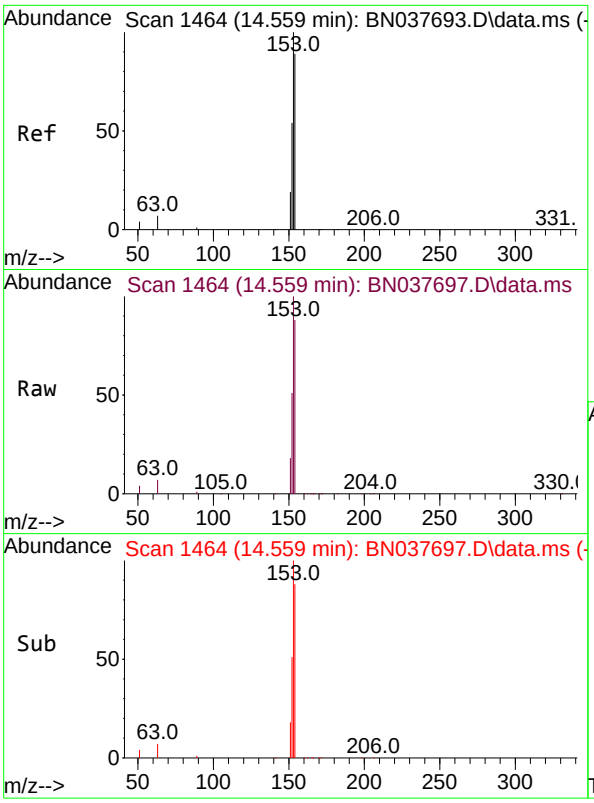




#16
Acenaphthylene
Concen: 5.505 ng
RT: 14.217 min Scan# 1432
Delta R.T. 0.011 min
Lab File: BN037697.D
Acq: 11 Sep 2025 13:33

Tgt Ion:152 Resp: 178140

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 151 | 19.8 | 16.2 | 24.2 |
| 153 | 13.0 | 10.4 | 15.6 |



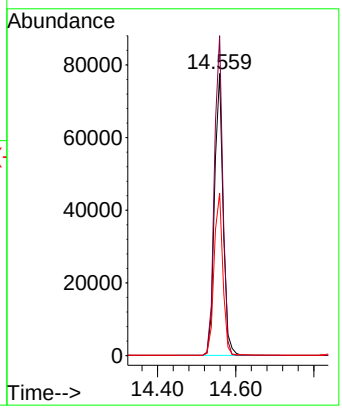


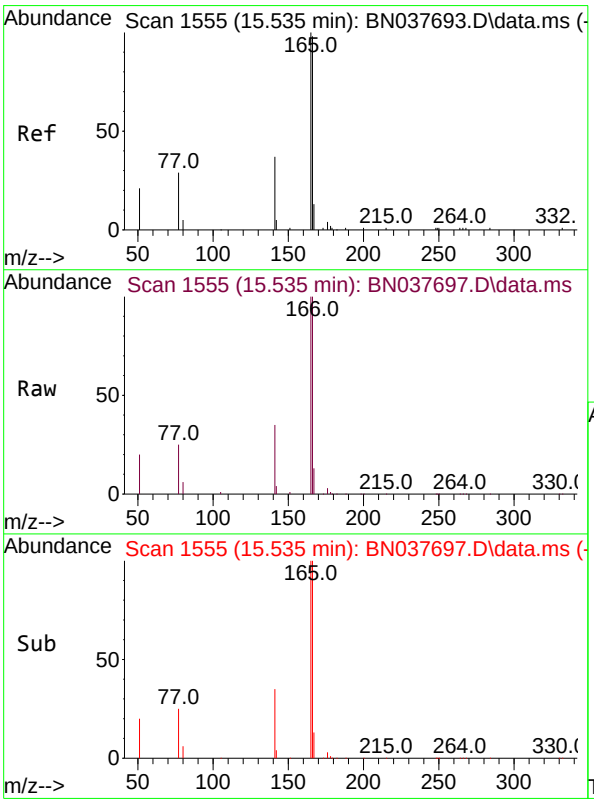

#17
Acenaphthene
Concen: 5.435 ng
RT: 14.559 min Scan# 14
Delta R.T. 0.000 min
Lab File: BN037697.D
Acq: 11 Sep 2025 13:33

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDICC5.0

Tgt Ion:154 Resp: 118915

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 154 | 100 | | |
| 153 | 111.1 | 89.8 | 134.8 |
| 152 | 58.4 | 50.2 | 75.2 |

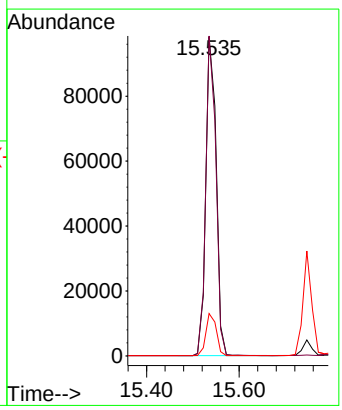


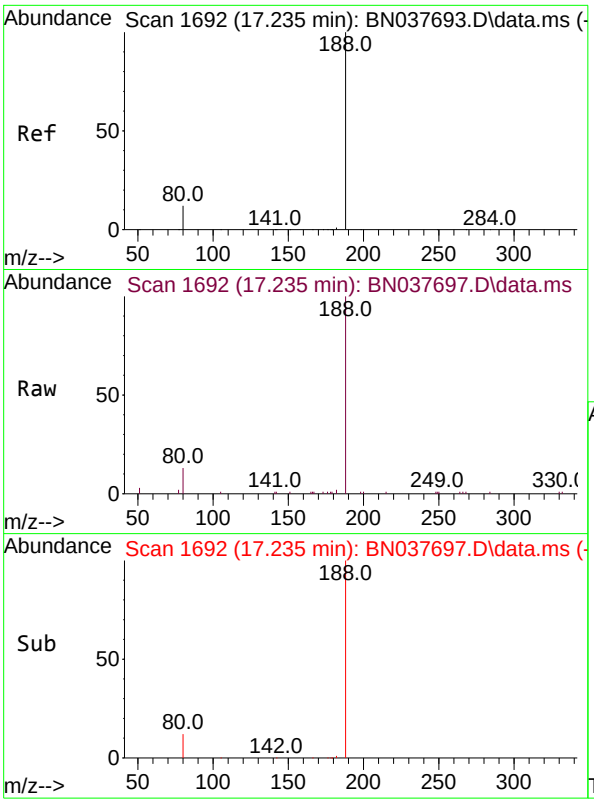




#18
Fluorene
Concen: 5.563 ng
RT: 15.535 min Scan# 1555
Delta R.T. 0.000 min
Lab File: BN037697.D
Acq: 11 Sep 2025 13:33

Tgt Ion:166 Resp: 147419

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 166 | 100 | | |
| 165 | 97.9 | 79.6 | 119.4 |
| 167 | 13.5 | 10.6 | 16.0 |



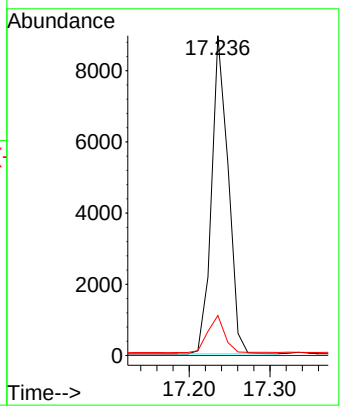


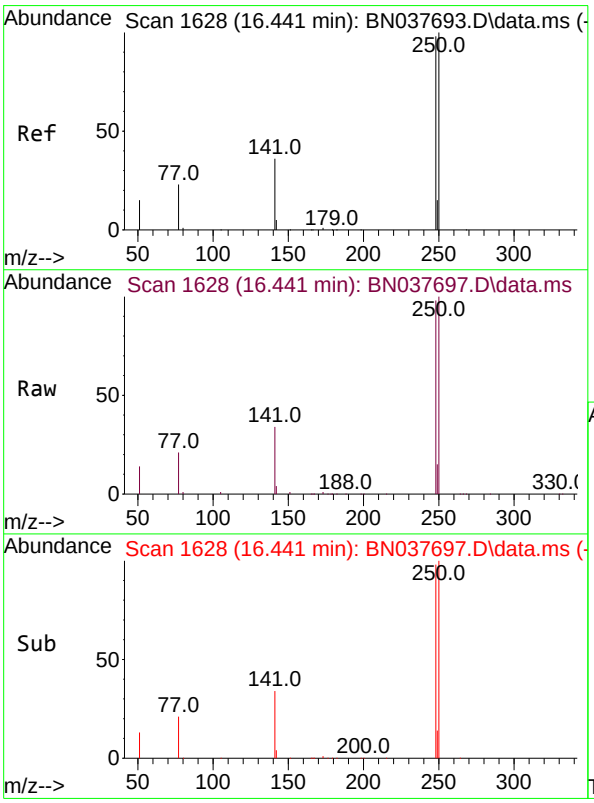

#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.235 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN037697.D
Acq: 11 Sep 2025 13:33

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDICC5.0

Tgt Ion:188 Resp: 12767

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 188 | 100 | | |
| 94 | 0.0 | 0.0 | 0.0 |
| 80 | 12.5 | 10.6 | 15.8 |

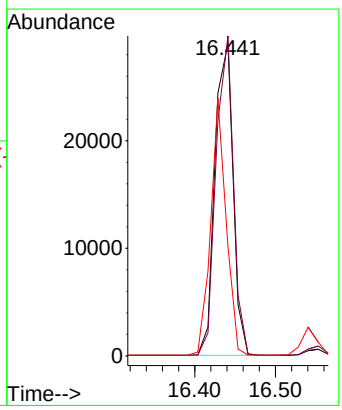


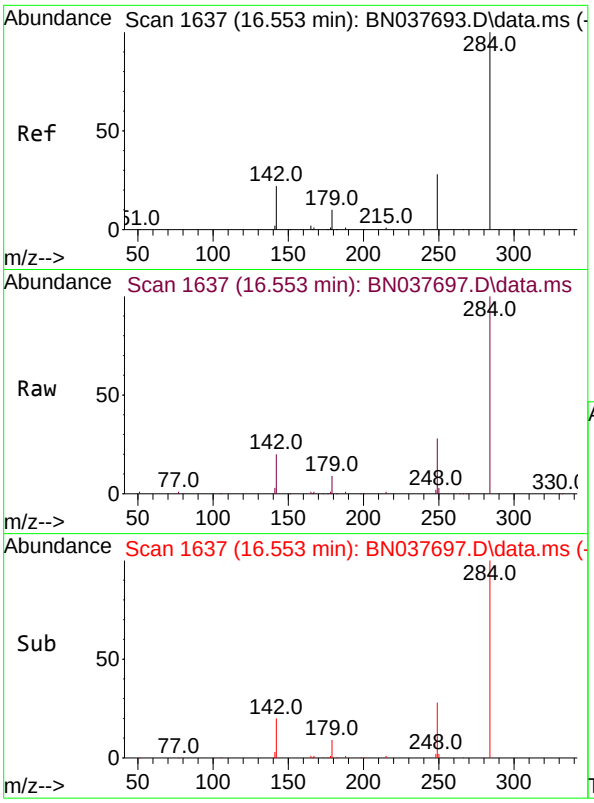




#21
4-Bromophenyl-phenylether
Concen: 5.448 ng
RT: 16.441 min Scan# 1628
Delta R.T. 0.000 min
Lab File: BN037697.D
Acq: 11 Sep 2025 13:33

Tgt Ion:248 Resp: 45357

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 248 | 100 | | |
| 250 | 102.5 | 81.5 | 122.3 |
| 141 | 35.0 | 30.8 | 46.2 |



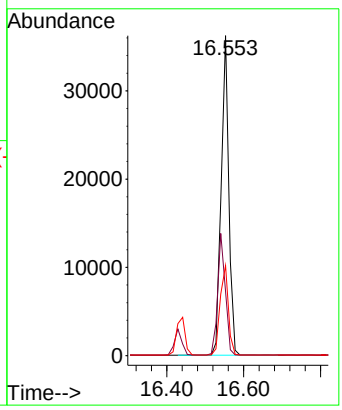


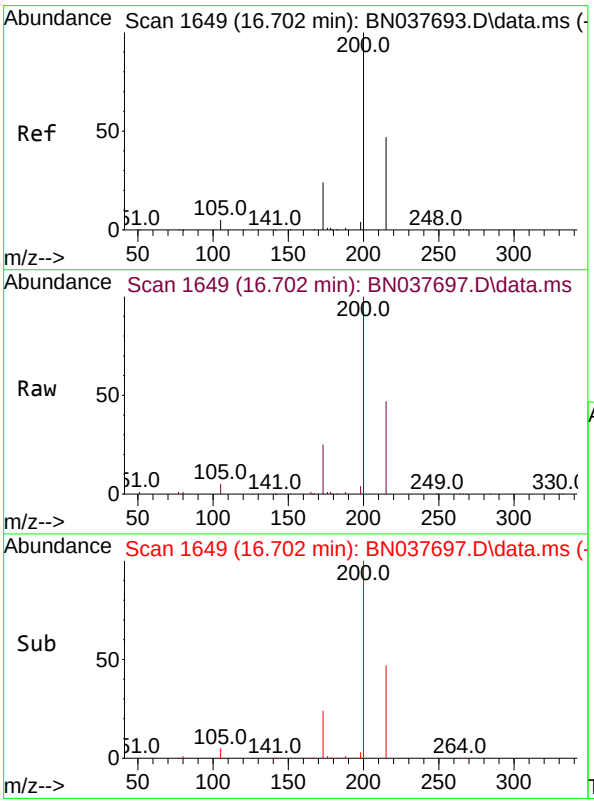

#22
Hexachlorobenzene
Concen: 5.160 ng
RT: 16.553 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN037697.D
Acq: 11 Sep 2025 13:33

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDICC5.0

Tgt Ion:284 Resp: 49411

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 284 | 100 | | |
| 142 | 38.2 | 30.9 | 46.3 |
| 249 | 30.2 | 24.8 | 37.2 |

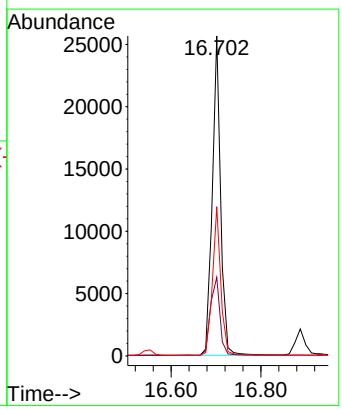


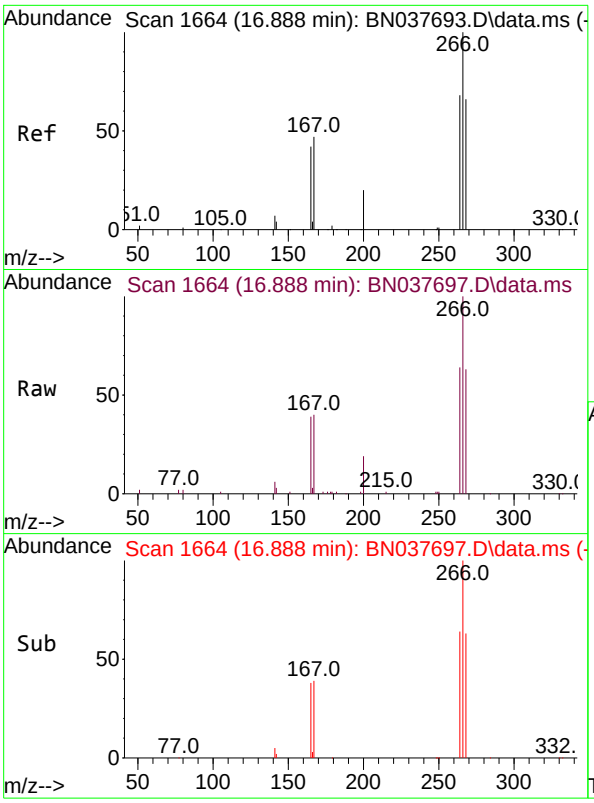




#23
Atrazine
Concen: 6.295 ng
RT: 16.702 min Scan# 1649
Delta R.T. 0.000 min
Lab File: BN037697.D
Acq: 11 Sep 2025 13:33

Tgt Ion:200 Resp: 33341

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 200 | 100 | | |
| 173 | 24.6 | 21.4 | 32.2 |
| 215 | 46.6 | 39.2 | 58.8 |



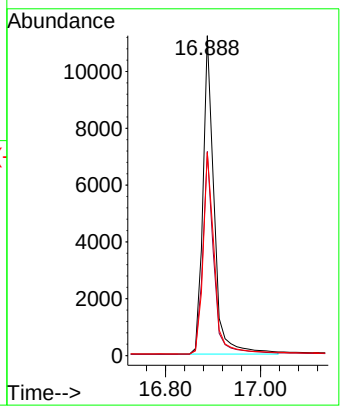


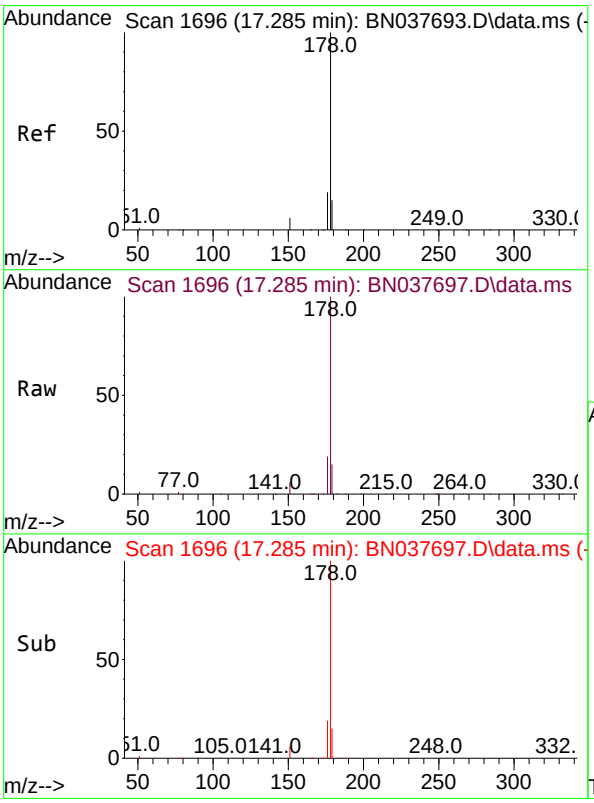

#24
Pentachlorophenol
Concen: 6.581 ng
RT: 16.888 min Scan# 1(
Delta R.T. 0.000 min
Lab File: BN037697.D
Acq: 11 Sep 2025 13:33

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDICC5.0

Tgt Ion:266 Resp: 18297

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 266 | 100 | | |
| 264 | 62.8 | 51.6 | 77.4 |
| 268 | 63.6 | 53.2 | 79.8 |

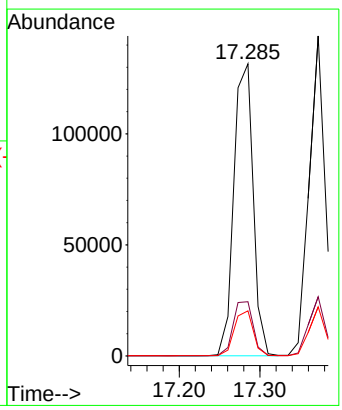


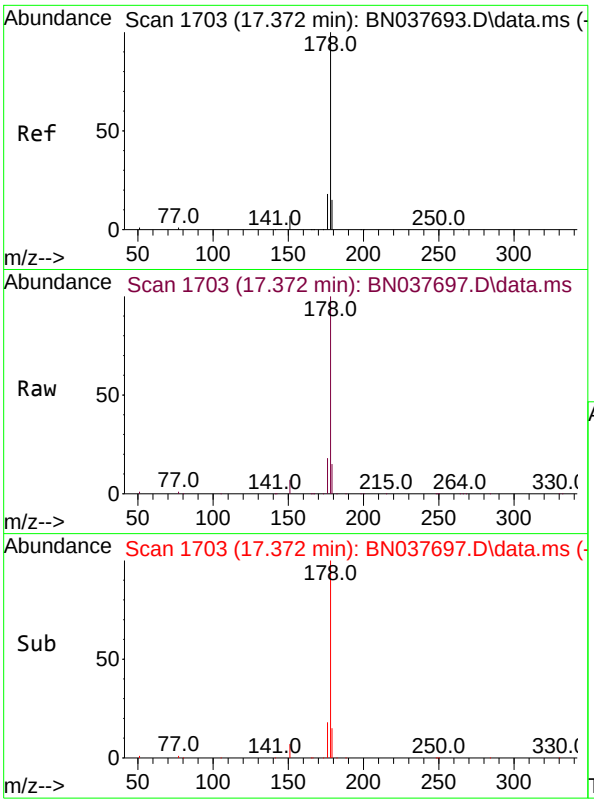




#25
Phenanthrene
Concen: 5.441 ng
RT: 17.285 min Scan# 1696
Delta R.T. 0.000 min
Lab File: BN037697.D
Acq: 11 Sep 2025 13:33

Tgt Ion:178 Resp: 218722

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 178 | 100 | | |
| 176 | 19.2 | 15.3 | 22.9 |
| 179 | 15.1 | 12.2 | 18.2 |



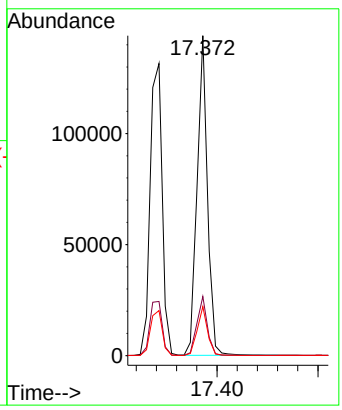


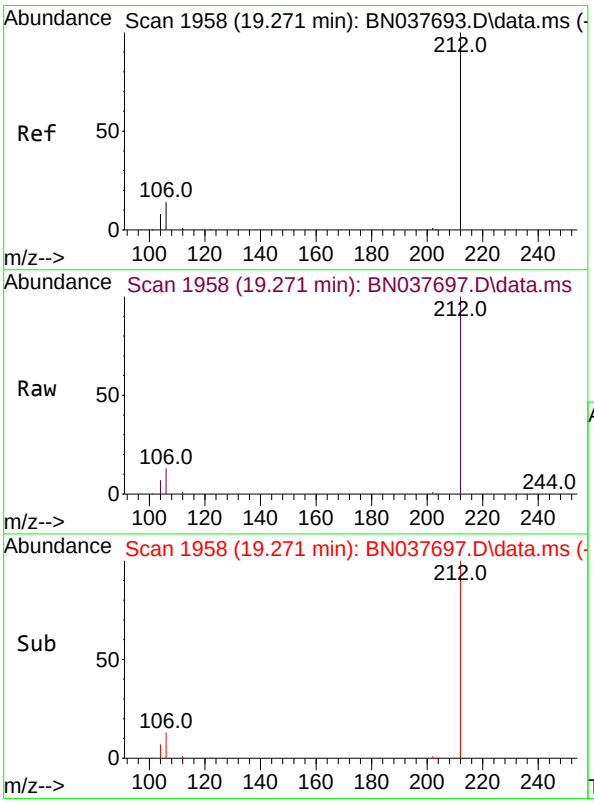

#26
Anthracene
Concen: 5.741 ng
RT: 17.372 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN037697.D
Acq: 11 Sep 2025 13:33

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDICC5.0

Tgt Ion:178 Resp: 204421

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 178 | 100 | | |
| 176 | 18.6 | 14.6 | 22.0 |
| 179 | 15.2 | 12.2 | 18.4 |

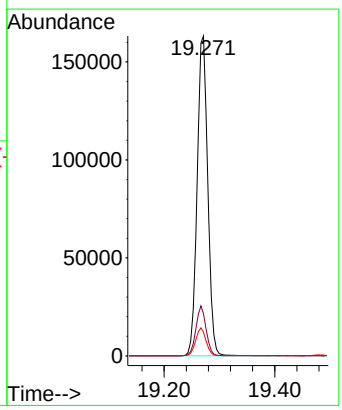


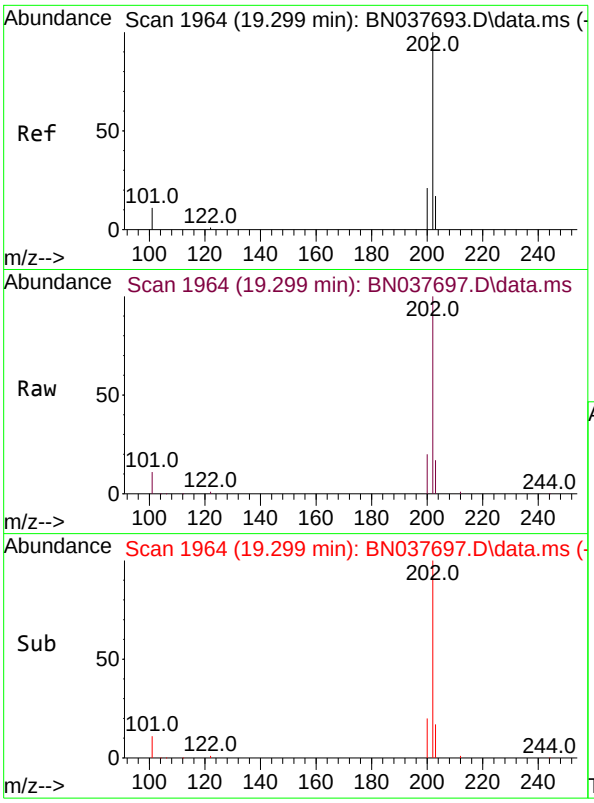




#27
Fluoranthene-d10
Concen: 6.721 ng
RT: 19.271 min Scan# 1958
Delta R.T. 0.000 min
Lab File: BN037697.D
Acq: 11 Sep 2025 13:33

Tgt Ion:212 Resp: 215419

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 212 | 100 | | |
| 106 | 14.9 | 12.2 | 18.2 |
| 104 | 8.5 | 6.9 | 10.3 |



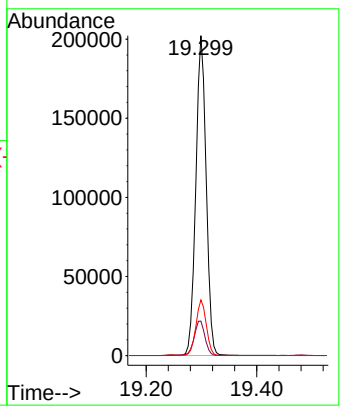


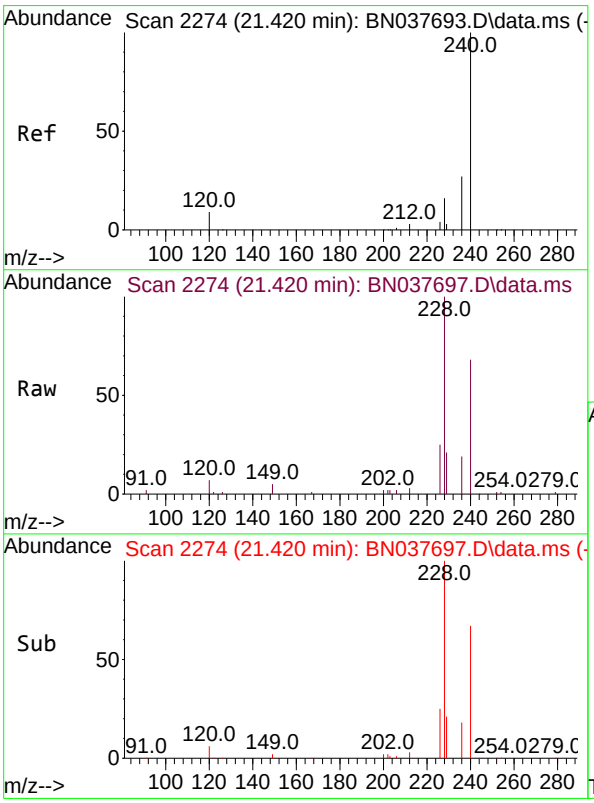

#28
Fluoranthene
Concen: 5.926 ng
RT: 19.299 min Scan# 19
Delta R.T. 0.000 min
Lab File: BN037697.D
Acq: 11 Sep 2025 13:33

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDICC5.0

Tgt Ion:202 Resp: 261250

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 202 | 100 | | |
| 101 | 11.4 | 9.3 | 13.9 |
| 203 | 17.3 | 13.7 | 20.5 |

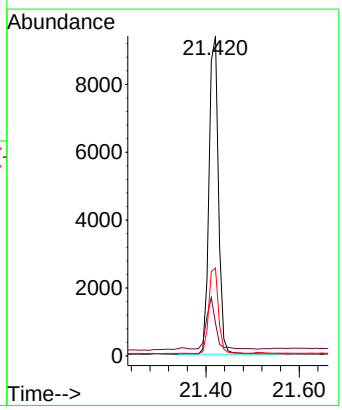


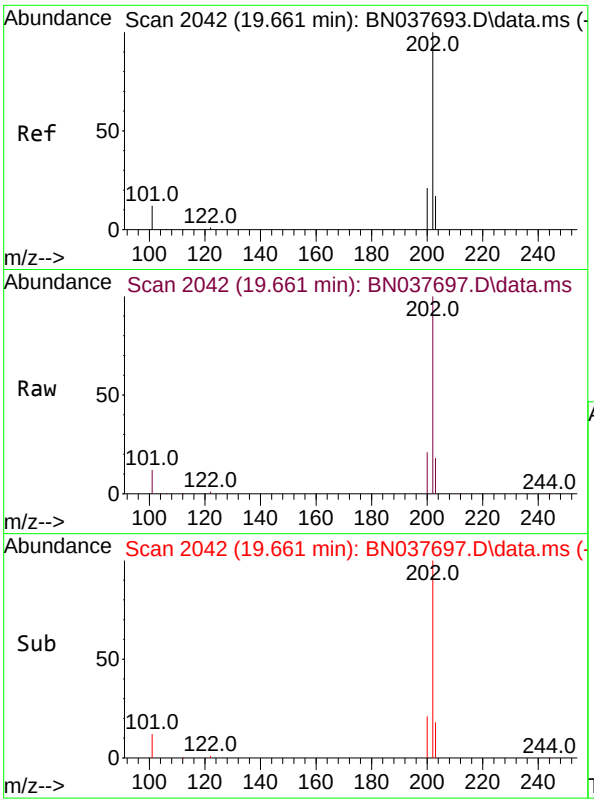




#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.420 min Scan# 2274
Delta R.T. 0.000 min
Lab File: BN037697.D
Acq: 11 Sep 2025 13:33

Tgt Ion:240 Resp: 13060

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 240 | 100 | | |
| 120 | 10.2 | 9.2 | 13.8 |
| 236 | 27.4 | 22.6 | 33.8 |



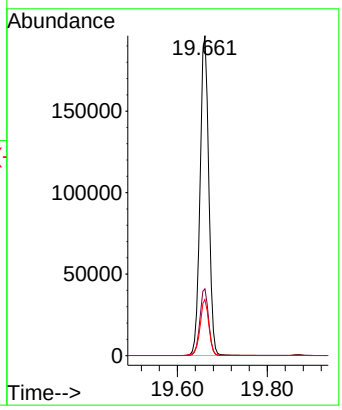


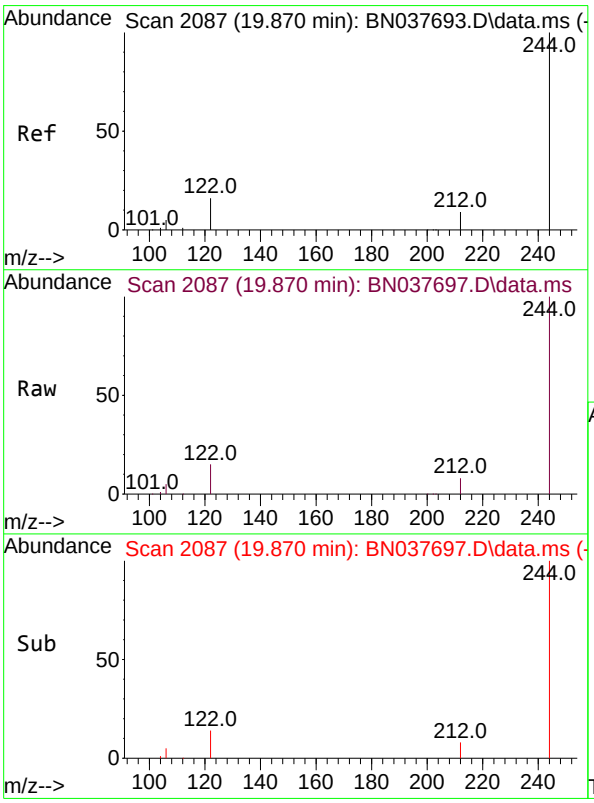

#30
Pyrene
Concen: 5.077 ng
RT: 19.661 min Scan# 20
Delta R.T. 0.000 min
Lab File: BN037697.D
Acq: 11 Sep 2025 13:33

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDICC5.0

Tgt Ion:202 Resp: 259551

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 202 | 100 | | |
| 200 | 21.0 | 16.8 | 25.2 |
| 203 | 17.8 | 14.3 | 21.5 |

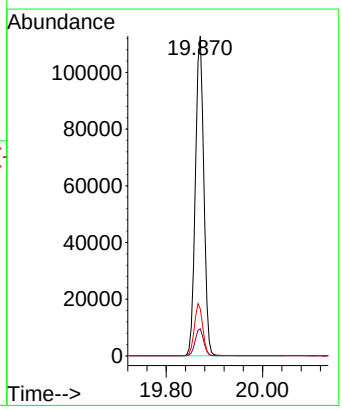


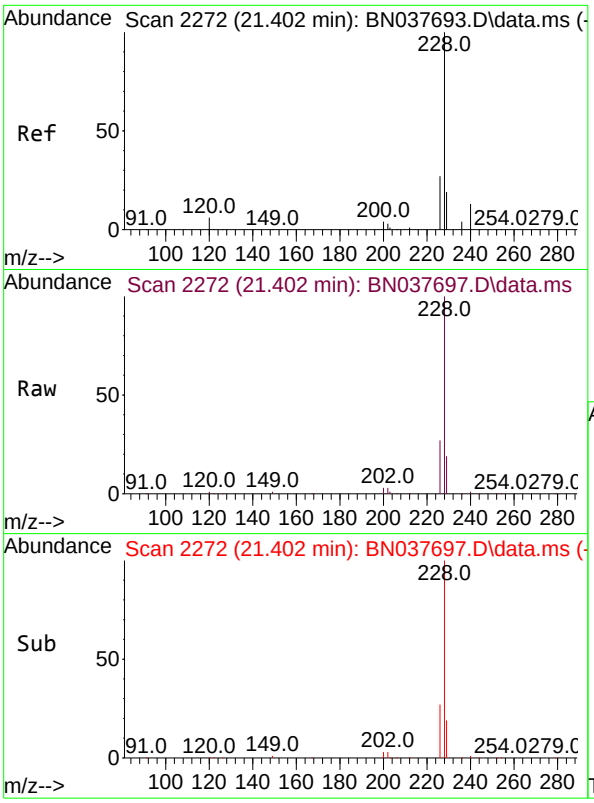




#31
Terphenyl-d14
Concen: 5.493 ng
RT: 19.870 min Scan# 2087
Delta R.T. 0.000 min
Lab File: BN037697.D
Acq: 11 Sep 2025 13:33

Tgt Ion:244 Resp: 145595

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 244 | 100 | | |
| 212 | 8.5 | 7.5 | 11.3 |
| 122 | 14.7 | 13.2 | 19.8 |



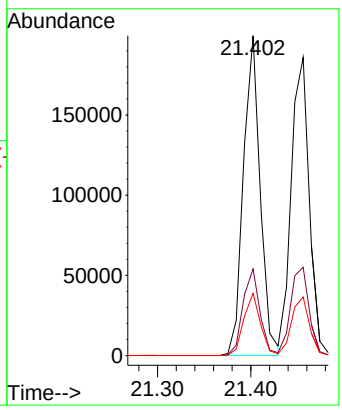


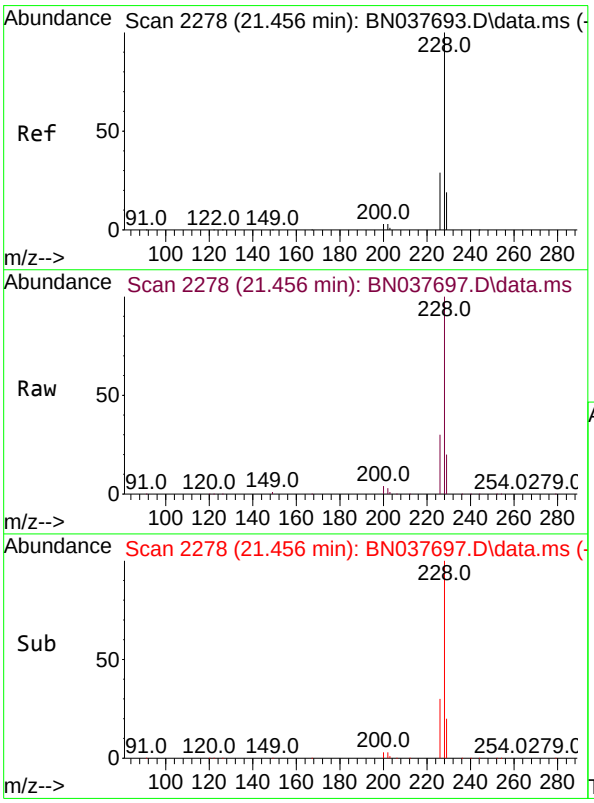

#32
Benzo(a)anthracene
Concen: 5.454 ng
RT: 21.402 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN037697.D
Acq: 11 Sep 2025 13:33

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDICC5.0

Tgt Ion:228 Resp: 248434

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 228 | 100 | | |
| 226 | 27.1 | 22.2 | 33.2 |
| 229 | 19.5 | 15.8 | 23.6 |

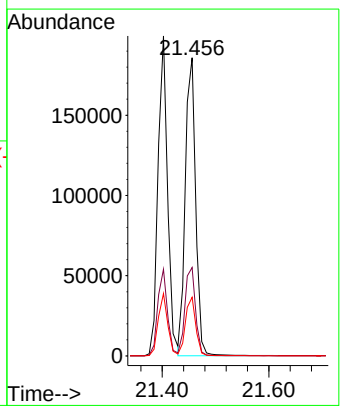


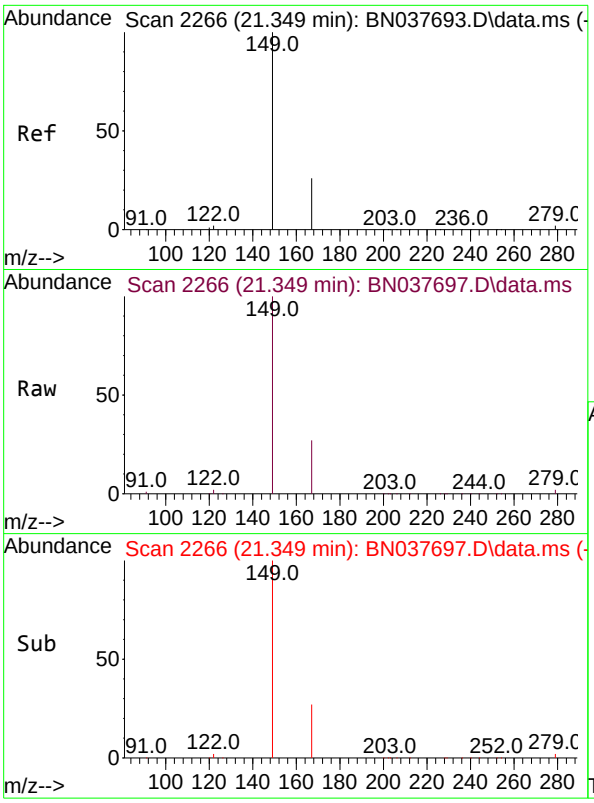




#33
Chrysene
Concen: 5.158 ng
RT: 21.456 min Scan# 2278
Delta R.T. 0.000 min
Lab File: BN037697.D
Acq: 11 Sep 2025 13:33

Tgt Ion:228 Resp: 251956

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 228 | 100 | | |
| 226 | 29.6 | 23.5 | 35.3 |
| 229 | 19.7 | 15.9 | 23.9 |



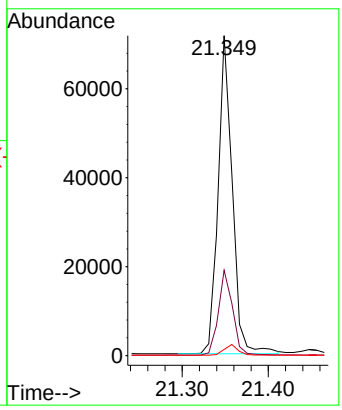


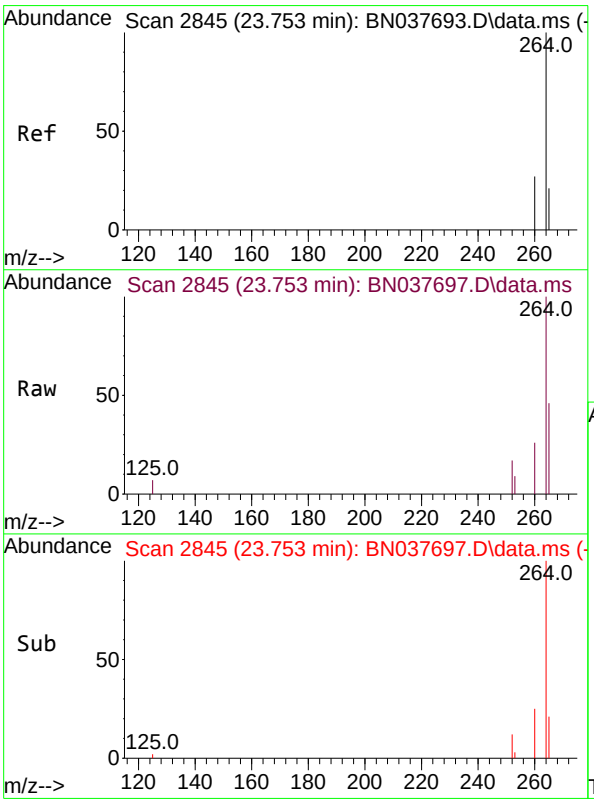

#34
Bis(2-ethylhexyl)phthalate
Concen: 6.091 ng
RT: 21.349 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN037697.D
Acq: 11 Sep 2025 13:33

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDICC5.0

Tgt Ion:149 Resp: 82262

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 149 | 100 | | |
| 167 | 26.7 | 20.8 | 31.2 |
| 279 | 3.2 | 3.3 | 4.9# |

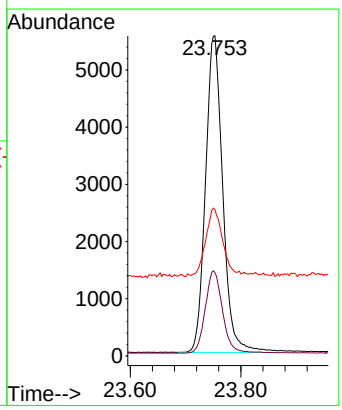


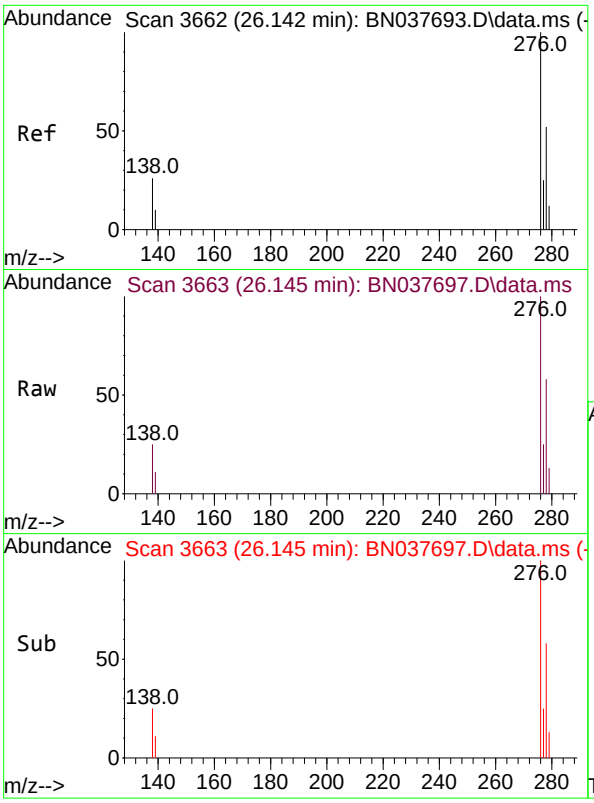




#35
Perylene-d12
Concen: 0.400 ng
RT: 23.753 min Scan# 2845
Delta R.T. 0.000 min
Lab File: BN037697.D
Acq: 11 Sep 2025 13:33

Tgt Ion:264 Resp: 12009

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 264 | 100 | | |
| 260 | 26.0 | 21.8 | 32.8 |
| 265 | 45.6 | 39.4 | 59.2 |



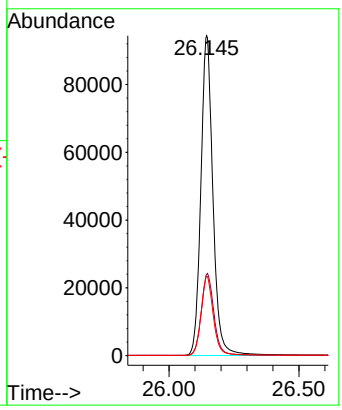


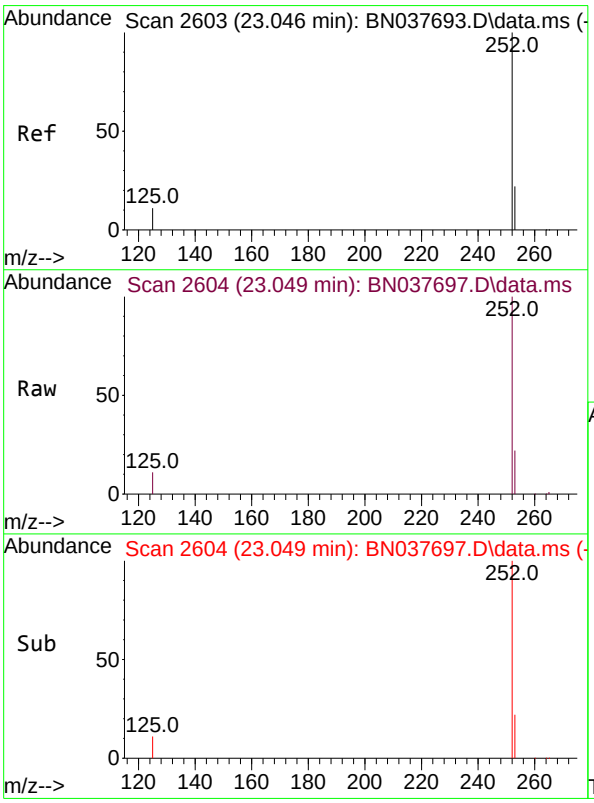

#36
Indeno(1,2,3-cd)pyrene
Concen: 6.024 ng
RT: 26.145 min Scan# 3
Delta R.T. 0.003 min
Lab File: BN037697.D
Acq: 11 Sep 2025 13:33

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDICC5.0

Tgt Ion:276 Resp: 303960

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 276 | 100 | | |
| 138 | 26.6 | 21.9 | 32.9 |
| 277 | 25.1 | 20.1 | 30.1 |

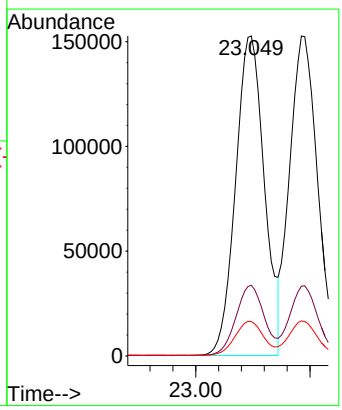


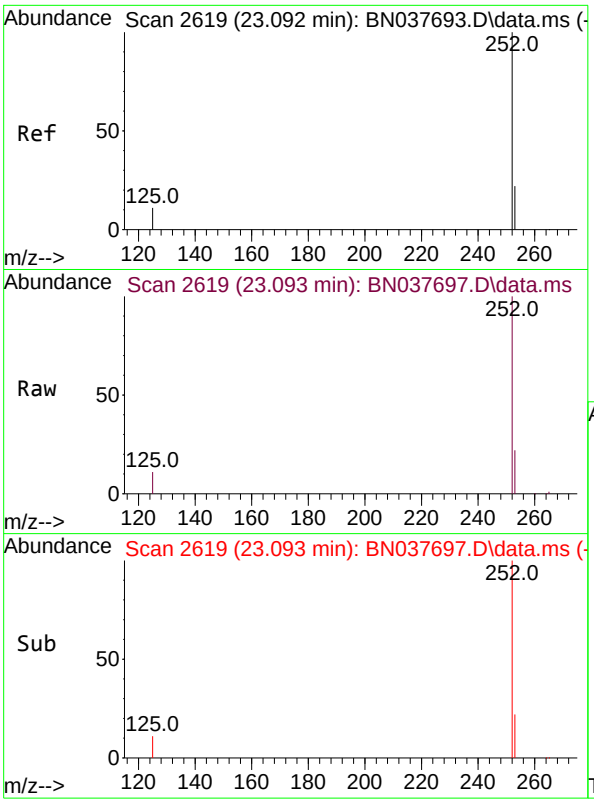




#37
Benzo(b)fluoranthene
Concen: 5.645 ng
RT: 23.049 min Scan# 2604
Delta R.T. 0.003 min
Lab File: BN037697.D
Acq: 11 Sep 2025 13:33

Tgt Ion:252 Resp: 266973

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 22.1 | 19.4 | 29.2 |
| 125 | 10.7 | 11.2 | 16.8# |



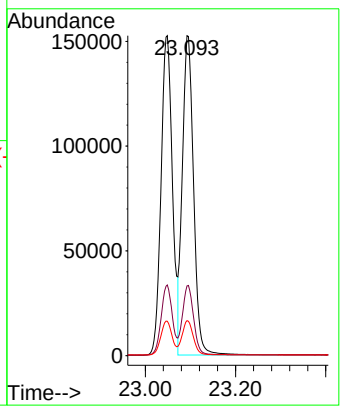


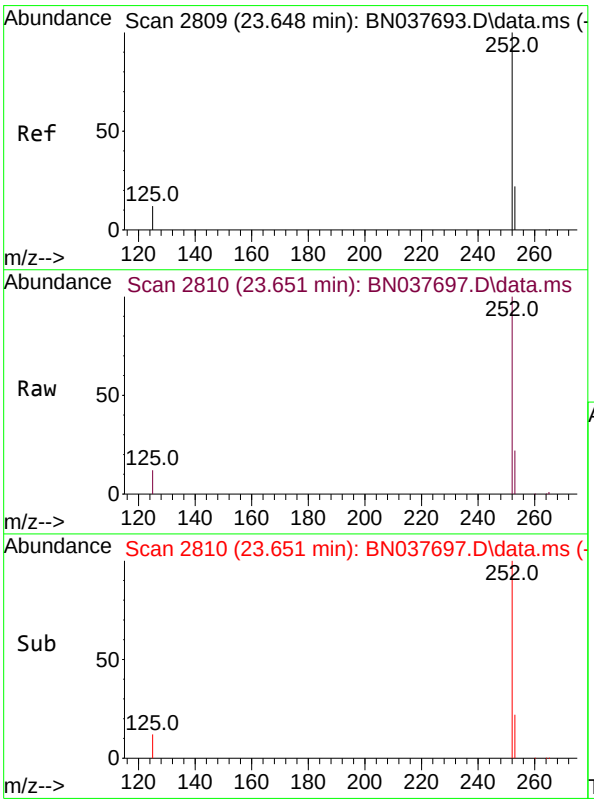

#38
Benzo(k)fluoranthene
Concen: 5.466 ng
RT: 23.093 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN037697.D
Acq: 11 Sep 2025 13:33

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDICC5.0

Tgt Ion:252 Resp: 263641

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 21.8 | 19.4 | 29.0 |
| 125 | 10.9 | 11.6 | 17.4# |

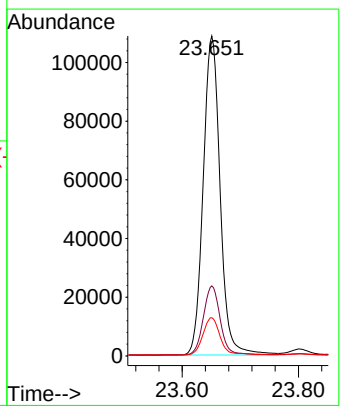


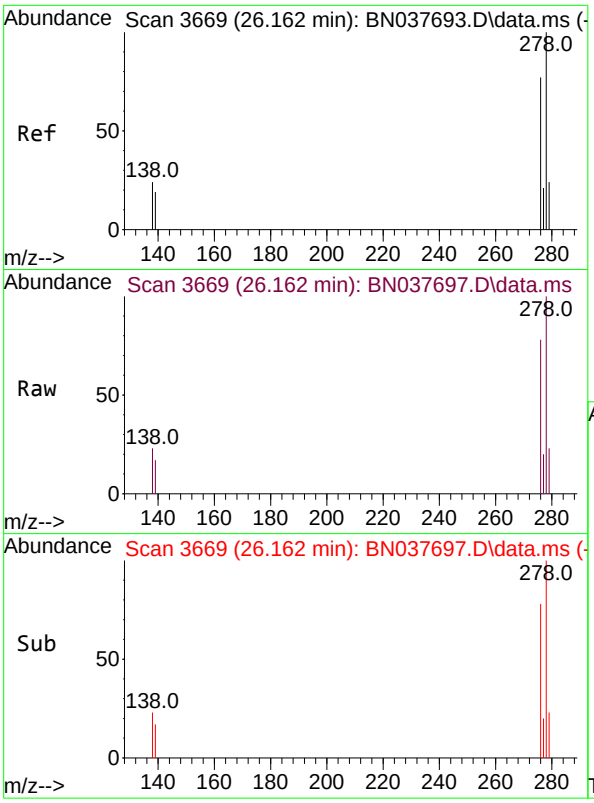




#39
Benzo(a)pyrene
Concen: 5.816 ng
RT: 23.651 min Scan# 2810
Delta R.T. 0.003 min
Lab File: BN037697.D
Acq: 11 Sep 2025 13:33

Tgt Ion:252 Resp: 220208

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 21.9 | 20.8 | 31.2 |
| 125 | 11.9 | 13.9 | 20.9# |



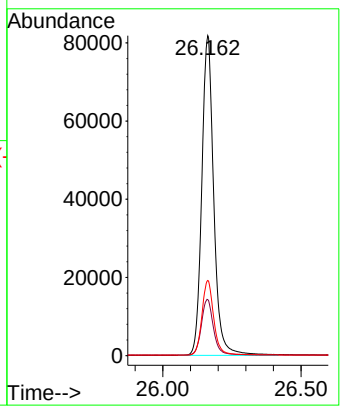


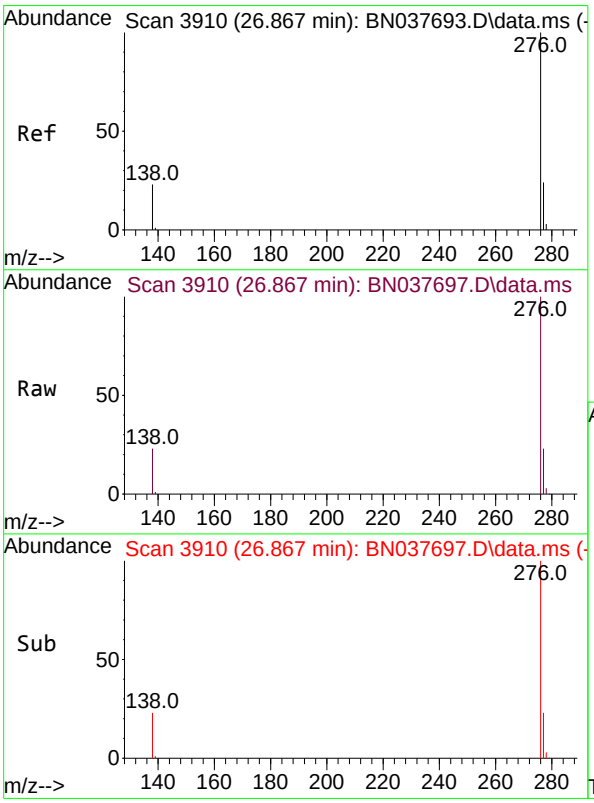

#40
Dibenzo(a,h)anthracene
Concen: 6.096 ng
RT: 26.162 min Scan# 3
Delta R.T. 0.000 min
Lab File: BN037697.D
Acq: 11 Sep 2025 13:33

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDICC5.0

Tgt Ion:278 Resp: 245606

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 278 | 100 | | |
| 139 | 17.5 | 17.8 | 26.6# |
| 279 | 23.5 | 22.0 | 33.0 |

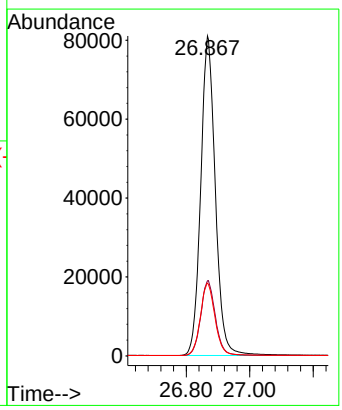



#41
Benzo(g,h,i)perylene
Concen: 5.720 ng
RT: 26.867 min Scan# 3910
Delta R.T. 0.000 min
Lab File: BN037697.D
Acq: 11 Sep 2025 13:33

Tgt Ion:276 Resp: 258594

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 276 | 100 | | |
| 277 | 23.5 | 20.6 | 31.0 |
| 138 | 22.7 | 20.2 | 30.2 |



Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN091125\
Data File : BN037698.D
Acq On : 11 Sep 2025 14:09
Operator : RC/JU
Sample : SSTDICV0.4
Misc :
ALS Vial : 10 Sample Multiplier: 1

**Instrument :**
BNA_N
**ClientSampleId :**
ICVBN091125

Quant Time: Sep 11 16:00:40 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN091125.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Sep 11 14:20:01 2025
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| Internal Standards | | | | | | | |
| 1) 1,4-Dichlorobenzene-d4 | 7.840 | 152 | 5029 | 0.400 | ng | | 0.00 |
| 7) Naphthalene-d8 | 10.647 | 136 | 13552 | 0.400 | ng | | 0.00 |
| 13) Acenaphthene-d10 | 14.494 | 164 | 6371 | 0.400 | ng | | 0.00 |
| 19) Phenanthrene-d10 | 17.235 | 188 | 11165 | 0.400 | ng | | 0.00 |
| 29) Chrysene-d12 | 21.420 | 240 | 8931 | 0.400 | ng | | 0.00 |
| 35) Perylene-d12 | 23.750 | 264 | 8751 | 0.400 | ng | | 0.00 |
| System Monitoring Compounds | | | | | | | |
| 4) 2-Fluorophenol | 5.399 | 112 | 4545 | 0.394 | ng | | 0.00 |
| 5) Phenol-d6 | 6.987 | 99 | 5691 | 0.380 | ng | | 0.00 |
| 8) Nitrobenzene-d5 | 8.992 | 82 | 4501 | 0.454 | ng | | 0.00 |
| 11) 2-Methylnaphthalene-d10 | 12.242 | 152 | 7632 | 0.425 | ng | | 0.00 |
| 14) 2,4,6-Tribromophenol | 15.982 | 330 | 629 | 0.379 | ng | | 0.00 |
| 15) 2-Fluorobiphenyl | 13.115 | 172 | 12687 | 0.476 | ng | | 0.00 |
| 27) Fluoranthene-d10 | 19.271 | 212 | 11138 | 0.397 | ng | | 0.00 |
| 31) Terphenyl-d14 | 19.870 | 244 | 8765 | 0.484 | ng | | 0.00 |
| Target Compounds | | | | | | | Qvalue |
| 2) 1,4-Dioxane | 3.304 | 88 | 2457 | 0.469 | ng | | 98 |
| 3) n-Nitrosodimethylamine | 3.607 | 42 | 2924 | 0.427 | ng | # | 94 |
| 6) bis(2-Chloroethyl)ether | 7.255 | 93 | 5769 | 0.431 | ng | | 99 |
| 9) Naphthalene | 10.690 | 128 | 15153 | 0.409 | ng | | 100 |
| 10) Hexachlorobutadiene | 11.000 | 225 | 2814 | 0.420 | ng | # | 99 |
| 12) 2-Methylnaphthalene | 12.313 | 142 | 8593 | 0.375 | ng | | 100 |
| 16) Acenaphthylene | 14.216 | 152 | 12785 | 0.438 | ng | | 100 |
| 17) Acenaphthene | 14.558 | 154 | 7838 | 0.397 | ng | | 99 |
| 18) Fluorene | 15.535 | 166 | 9460 | 0.395 | ng | | 98 |
| 20) 4,6-Dinitro-2-methylph... | 15.609 | 198 | 392 | 0.379 | ng | | 99 |
| 21) 4-Bromophenyl-phenylether | 16.441 | 248 | 2975 | 0.409 | ng | | 97 |
| 22) Hexachlorobenzene | 16.552 | 284 | 3569 | 0.426 | ng | | 99 |
| 23) Atrazine | 16.701 | 200 | 1828 | 0.395 | ng | | 99 |
| 24) Pentachlorophenol | 16.888 | 266 | 785 | 0.323 | ng | | 97 |
| 25) Phenanthrene | 17.285 | 178 | 14262 | 0.406 | ng | | 99 |
| 26) Anthracene | 17.372 | 178 | 12642 | 0.406 | ng | | 99 |
| 28) Fluoranthene | 19.299 | 202 | 14471 | 0.375 | ng | | 100 |
| 30) Pyrene | 19.661 | 202 | 14323 | 0.410 | ng | | 100 |
| 32) Benzo(a)anthracene | 21.402 | 228 | 12803 | 0.411 | ng | | 99 |
| 33) Chrysene | 21.456 | 228 | 13963 | 0.418 | ng | | 99 |
| 34) Bis(2-ethylhexyl)phtha... | 21.348 | 149 | 3245 | 0.351 | ng | # | 98 |
| 36) Indeno(1,2,3-cd)pyrene | 26.139 | 276 | 15430 | 0.420 | ng | | 100 |
| 37) Benzo(b)fluoranthene | 23.045 | 252 | 13718 | 0.398 | ng | | 100 |
| 38) Benzo(k)fluoranthene | 23.092 | 252 | 14465 | 0.412 | ng | | 98 |
| 39) Benzo(a)pyrene | 23.648 | 252 | 11950 | 0.433 | ng | | 100 |
| 40) Dibenzo(a,h)anthracene | 26.159 | 278 | 12290 | 0.419 | ng | | 99 |
| 41) Benzo(g,h,i)perylene | 26.864 | 276 | 13095 | 0.398 | ng | | 99 |

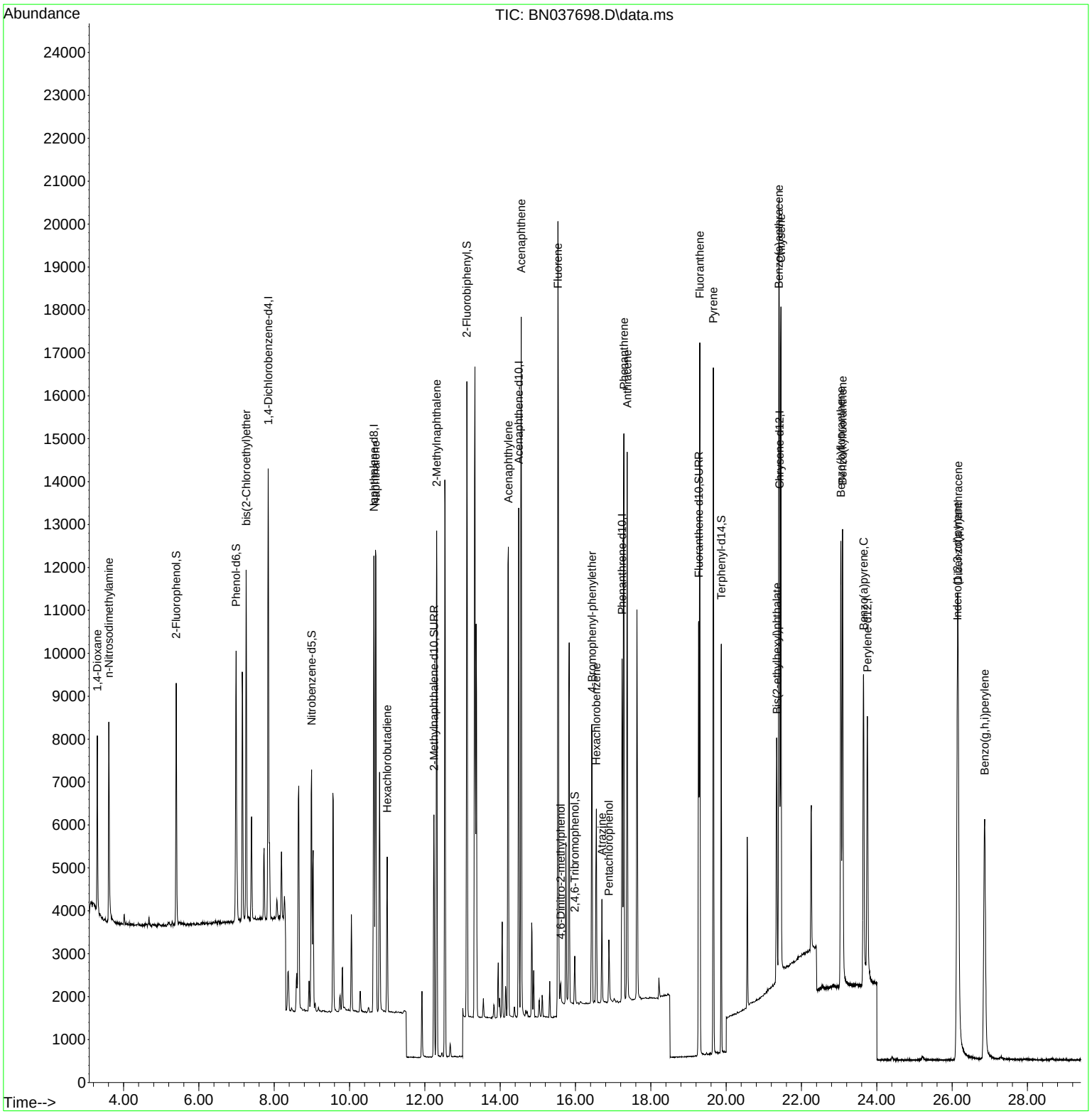
(#) = qualifier out of range (m) = manual integration (+) = signals summed

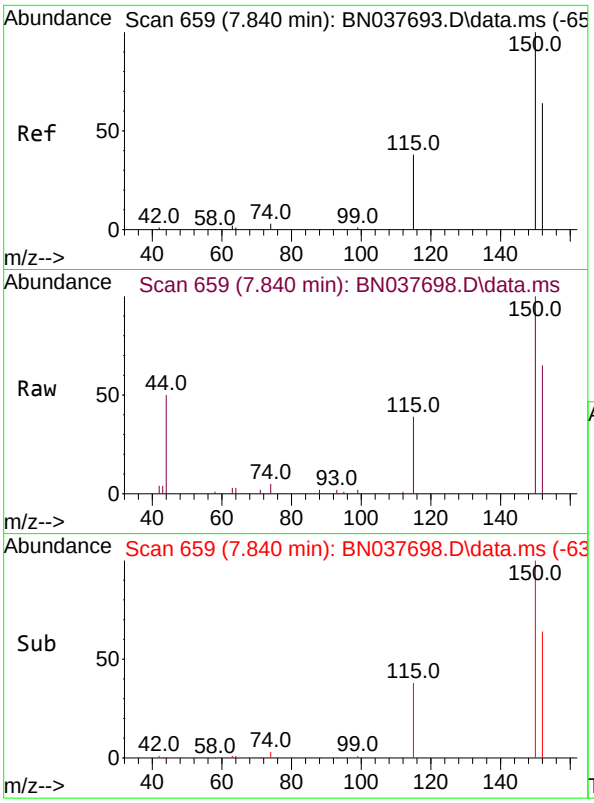
ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN091125\
Data File : BN037698.D
Acq On : 11 Sep 2025 14:09
Operator : RC/JU
Sample : SSTDICV0.4
Misc :
ALS Vial : 10 Sample Multiplier: 1

**Instrument :**
BNA_N
**ClientSampleId :**
ICVBN091125

Quant Time: Sep 11 16:00:40 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN091125.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Sep 11 14:20:01 2025
Response via : Initial Calibration



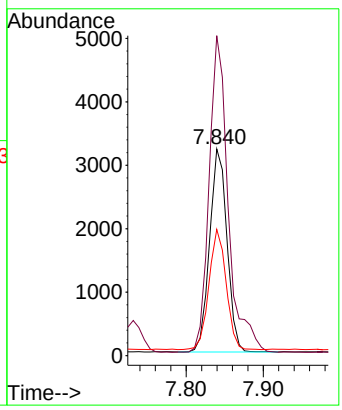


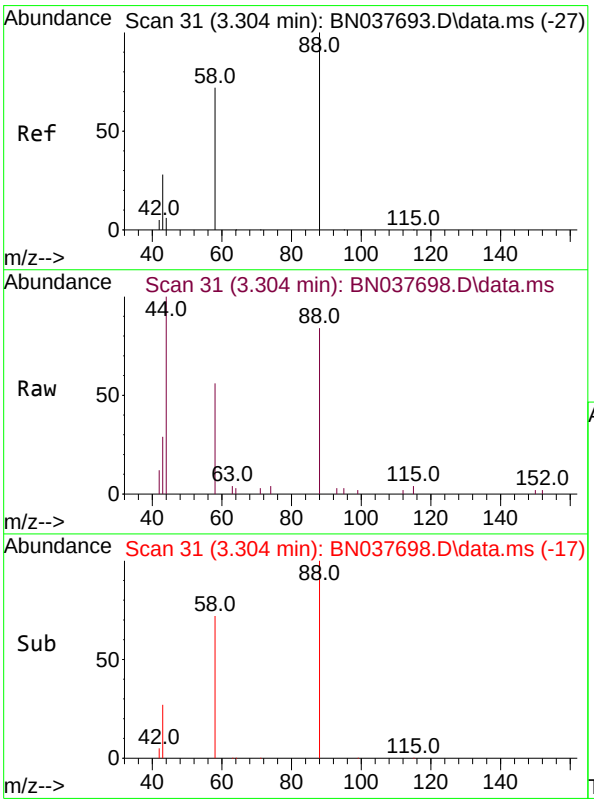

#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.840 min Scan# 6
Delta R.T. -0.000 min
Lab File: BN037698.D
Acq: 11 Sep 2025 14:09

**Instrument :**
BNA_N
**ClientSampleId :**
ICVBN091125

Tgt Ion:152 Resp: 5029

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 150 | 154.8 | 124.5 | 186.7 |
| 115 | 61.0 | 49.2 | 73.8 |

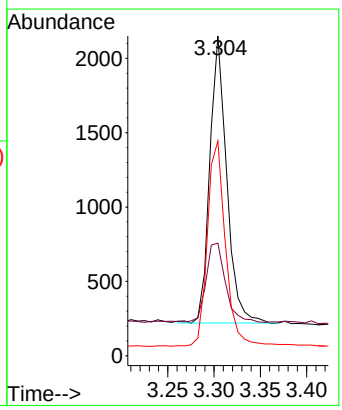


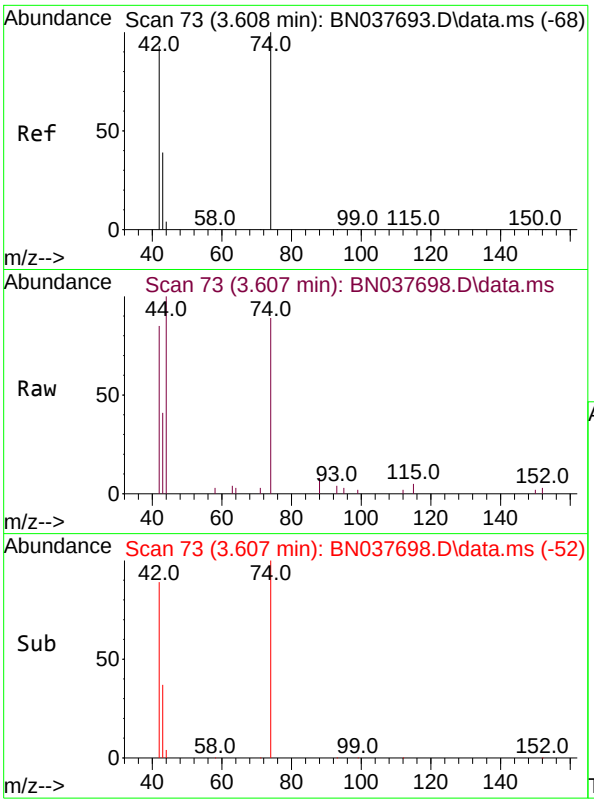




#2
1,4-Dioxane
Concen: 0.469 ng
RT: 3.304 min Scan# 31
Delta R.T. -0.000 min
Lab File: BN037698.D
Acq: 11 Sep 2025 14:09

Tgt Ion: 88 Resp: 2457

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 88 | 100 | | |
| 43 | 31.5 | 26.8 | 40.2 |
| 58 | 76.6 | 61.9 | 92.9 |



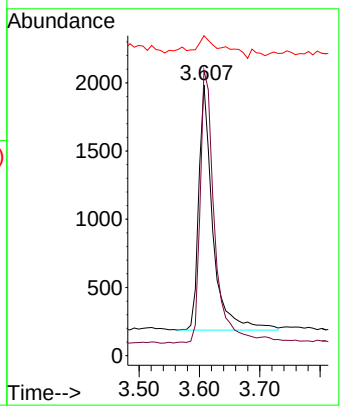


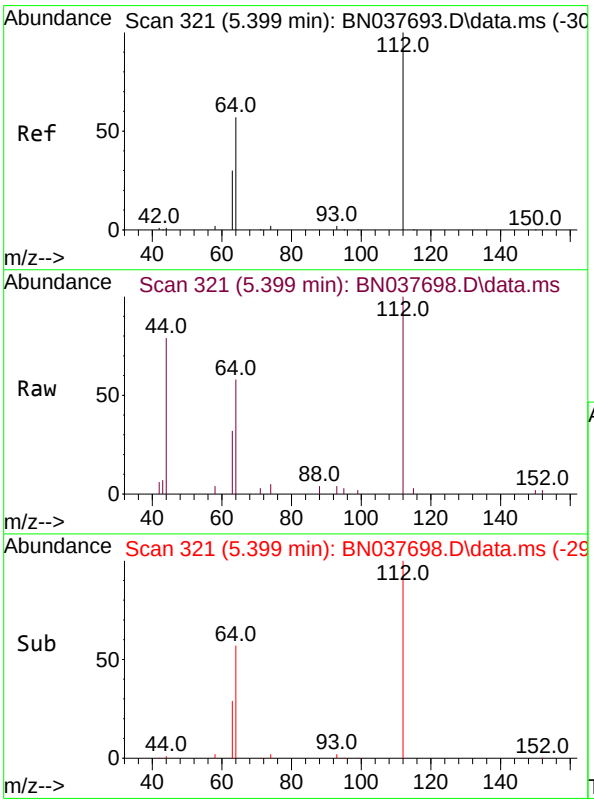

#3
n-Nitrosodimethylamine
Concen: 0.427 ng
RT: 3.607 min Scan# 7
Delta R.T. -0.000 min
Lab File: BN037698.D
Acq: 11 Sep 2025 14:09

**Instrument :**
BNA_N
**ClientSampleId :**
ICVBN091125

Tgt Ion: 42 Resp: 2924

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 42 | 100 | | |
| 74 | 112.9 | 86.0 | 129.0 |
| 44 | 15.6 | 8.4 | 12.6# |

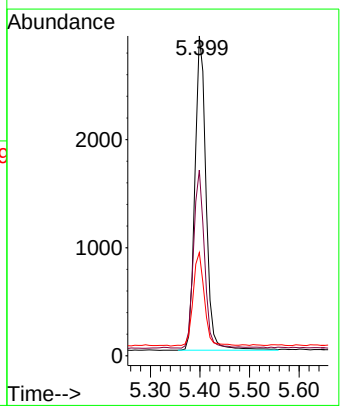


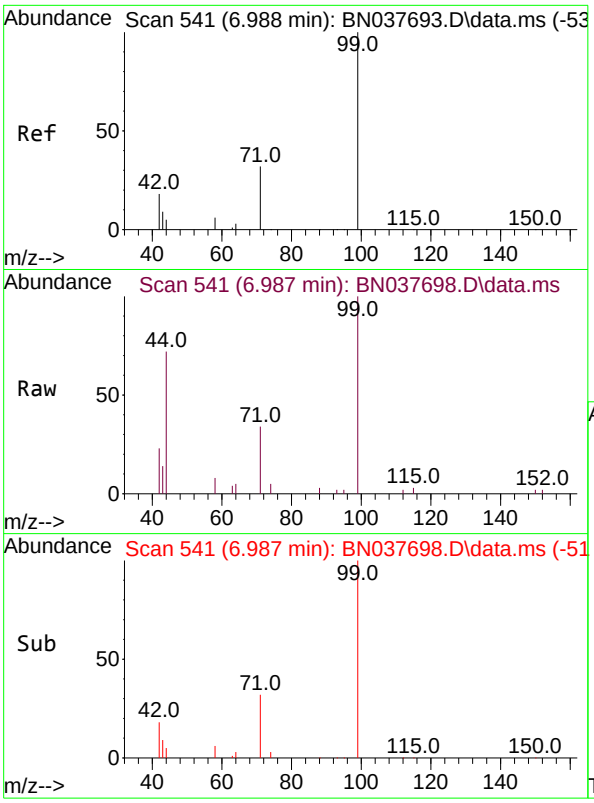




#4
2-Fluorophenol
Concen: 0.394 ng
RT: 5.399 min Scan# 321
Delta R.T. -0.000 min
Lab File: BN037698.D
Acq: 11 Sep 2025 14:09

Tgt Ion:112 Resp: 4545

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 112 | 100 | | |
| 64 | 55.4 | 44.9 | 67.3 |
| 63 | 30.2 | 24.7 | 37.1 |



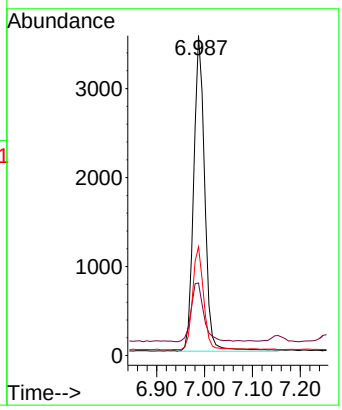


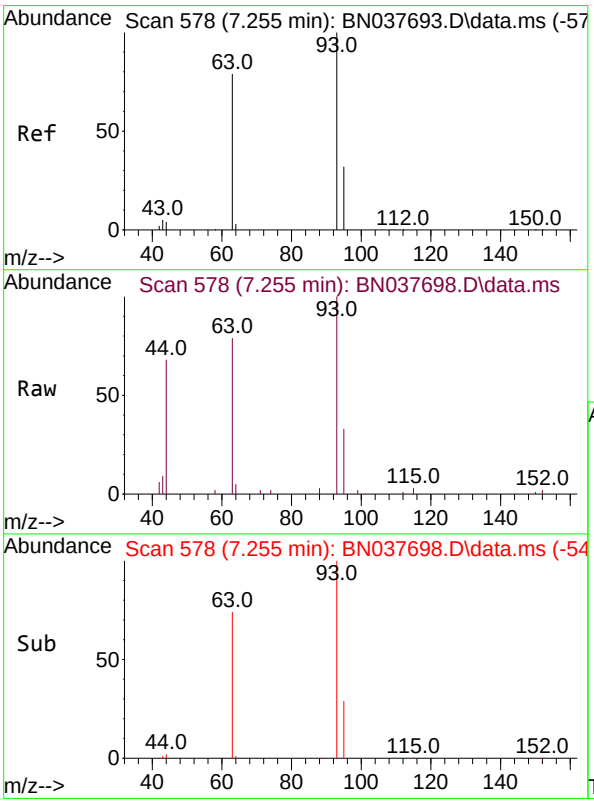

#5
Phenol-d6
Concen: 0.380 ng
RT: 6.987 min Scan# 54
Delta R.T. -0.000 min
Lab File: BN037698.D
Acq: 11 Sep 2025 14:09

**Instrument :**
BNA_N
**ClientSampleId :**
ICVBN091125

Tgt Ion: 99 Resp: 5691

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 99 | 100 | | |
| 42 | 21.3 | 16.6 | 24.8 |
| 71 | 32.6 | 26.7 | 40.1 |

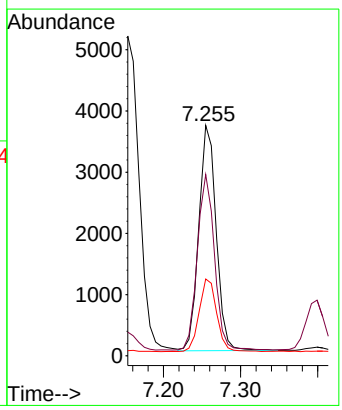


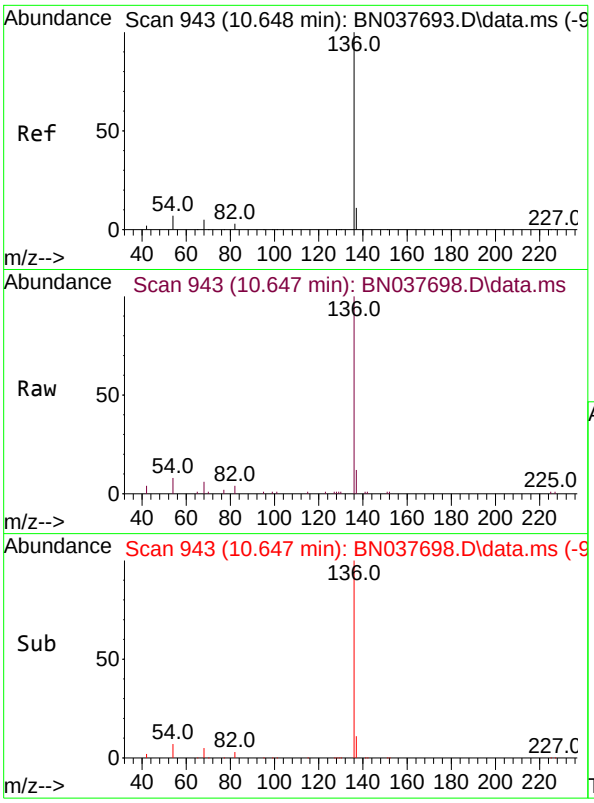




#6
bis(2-Chloroethyl)ether
Concen: 0.431 ng
RT: 7.255 min Scan# 578
Delta R.T. -0.000 min
Lab File: BN037698.D
Acq: 11 Sep 2025 14:09

Tgt Ion: 93 Resp: 5769

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 93 | 100 | | |
| 63 | 76.7 | 60.6 | 90.8 |
| 95 | 32.7 | 26.0 | 39.0 |



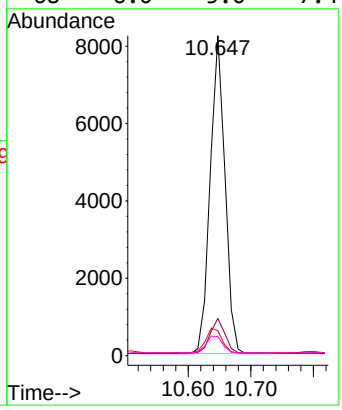


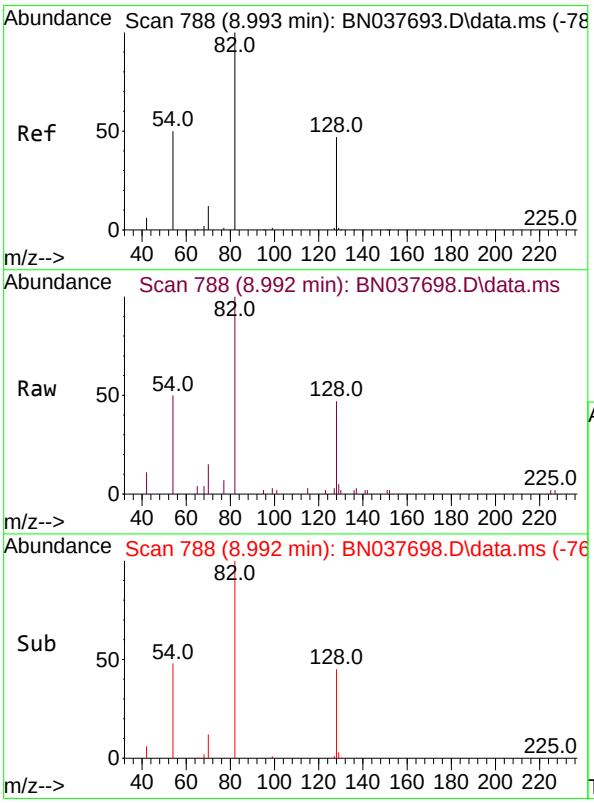

#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.647 min Scan# 94
Delta R.T. -0.000 min
Lab File: BN037698.D
Acq: 11 Sep 2025 14:09

**Instrument :**
BNA_N
**ClientSampleId :**
ICVBN091125

Tgt Ion:136 Resp: 13552

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 136 | 100 | | |
| 137 | 11.6 | 9.1 | 13.7 |
| 54 | 7.8 | 6.3 | 9.5 |
| 68 | 6.0 | 5.0 | 7.4 |

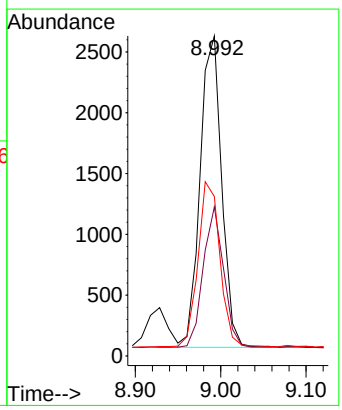


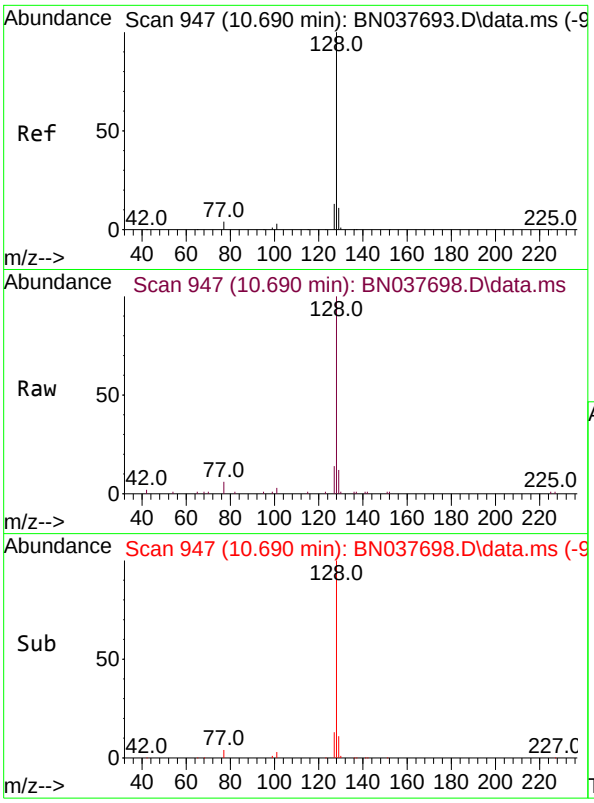




#8
Nitrobenzene-d5
Concen: 0.454 ng
RT: 8.992 min Scan# 788
Delta R.T. -0.000 min
Lab File: BN037698.D
Acq: 11 Sep 2025 14:09

Tgt Ion: 82 Resp: 4501

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 82 | 100 | | |
| 128 | 46.6 | 38.3 | 57.5 |
| 54 | 49.8 | 41.4 | 62.2 |



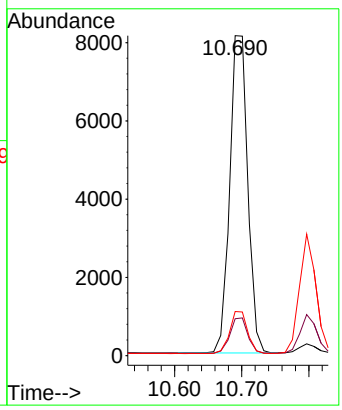


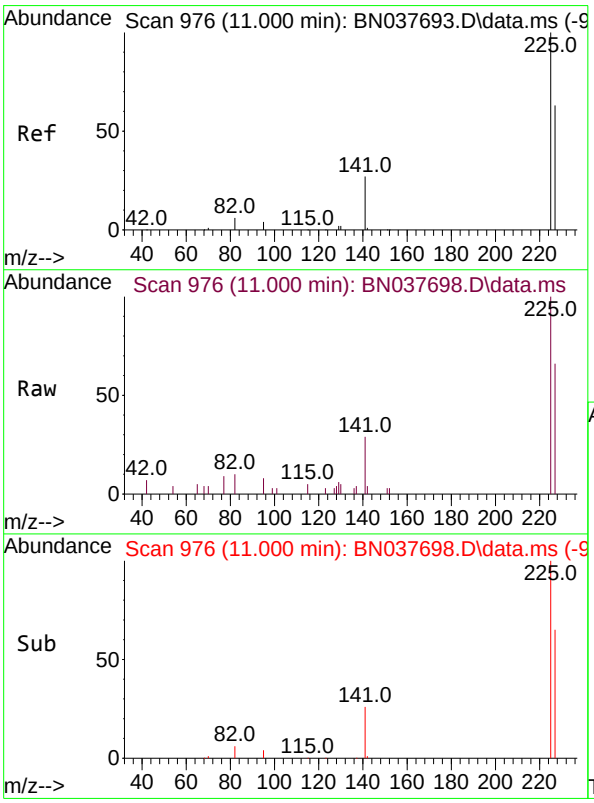

#9
Naphthalene
Concen: 0.409 ng
RT: 10.690 min Scan# 94
Delta R.T. -0.000 min
Lab File: BN037698.D
Acq: 11 Sep 2025 14:09

**Instrument :**
BNA_N
**ClientSampleId :**
ICVBN091125

Tgt Ion:128 Resp: 15153

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 128 | 100 | | |
| 129 | 11.5 | 9.1 | 13.7 |
| 127 | 13.8 | 10.9 | 16.3 |

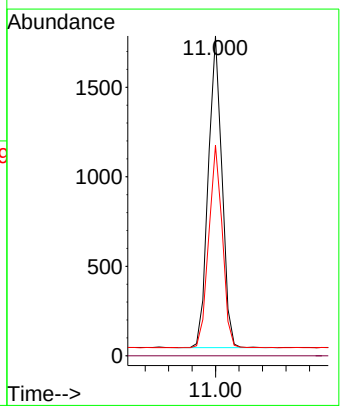


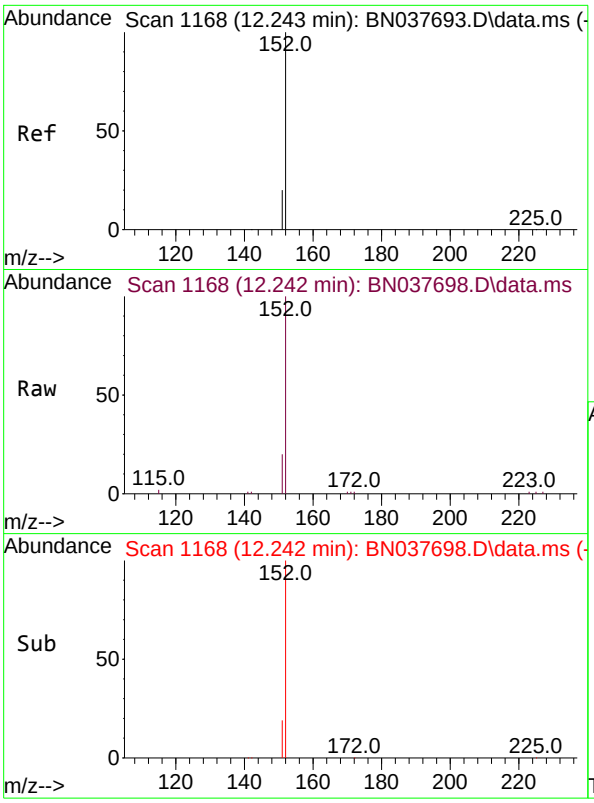




#10
Hexachlorobutadiene
Concen: 0.420 ng
RT: 11.000 min Scan# 976
Delta R.T. -0.000 min
Lab File: BN037698.D
Acq: 11 Sep 2025 14:09

Tgt Ion:225 Resp: 2814

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 225 | 100 | | |
| 223 | 0.0 | 0.0 | 0.0 |
| 227 | 64.2 | 50.9 | 76.3 |



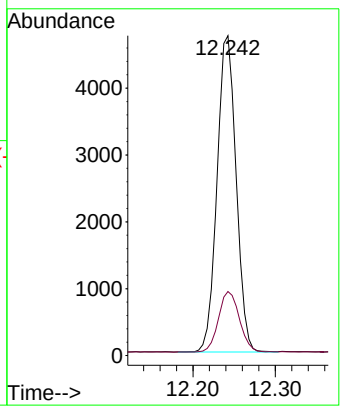


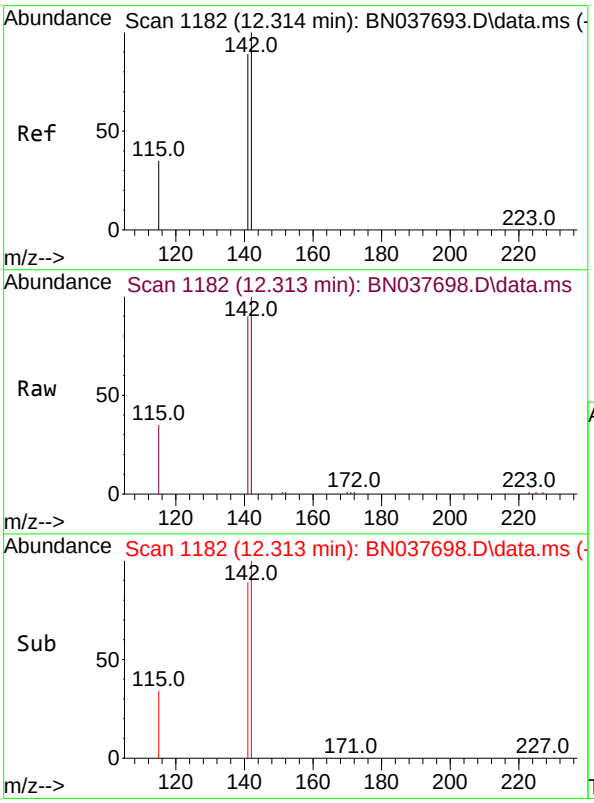

#11
2-Methylnaphthalene-d10
Concen: 0.425 ng
RT: 12.242 min Scan# 11
Delta R.T. -0.000 min
Lab File: BN037698.D
Acq: 11 Sep 2025 14:09

**Instrument :**
BNA_N
**ClientSampleId :**
ICVBN091125

Tgt Ion:152 Resp: 7632

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

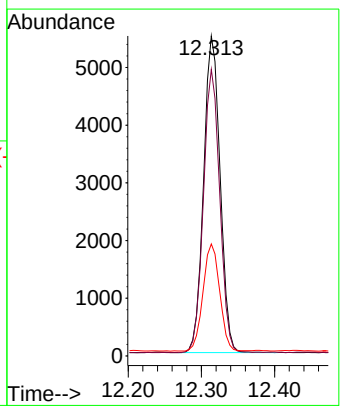


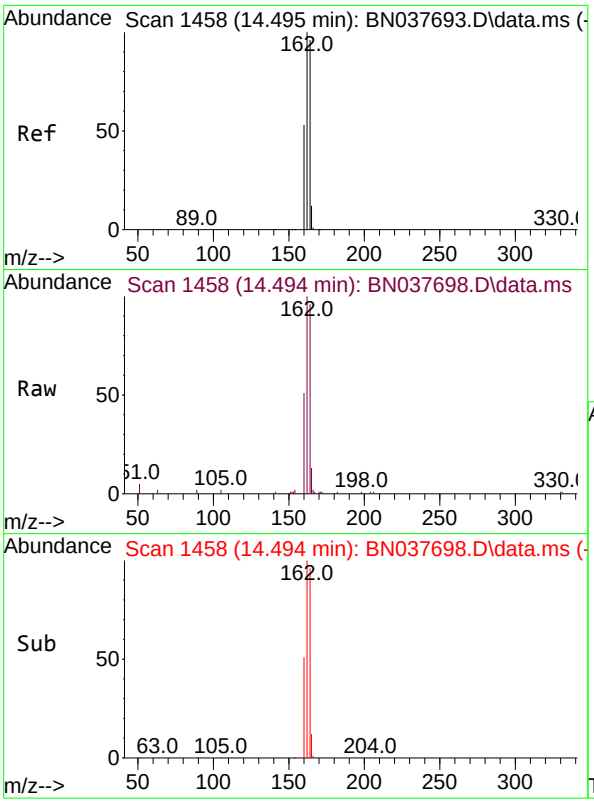




#12
2-Methylnaphthalene
Concen: 0.375 ng
RT: 12.313 min Scan# 1182
Delta R.T. -0.000 min
Lab File: BN037698.D
Acq: 11 Sep 2025 14:09

Tgt Ion:142 Resp: 8593

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 142 | 100 | | |
| 141 | 89.5 | 71.6 | 107.4 |
| 115 | 35.0 | 28.6 | 43.0 |



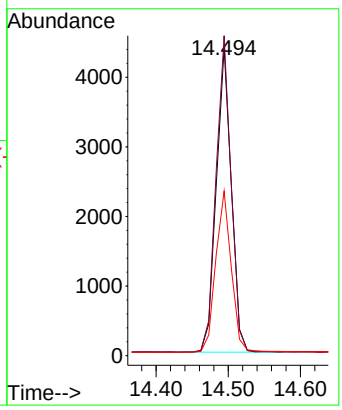


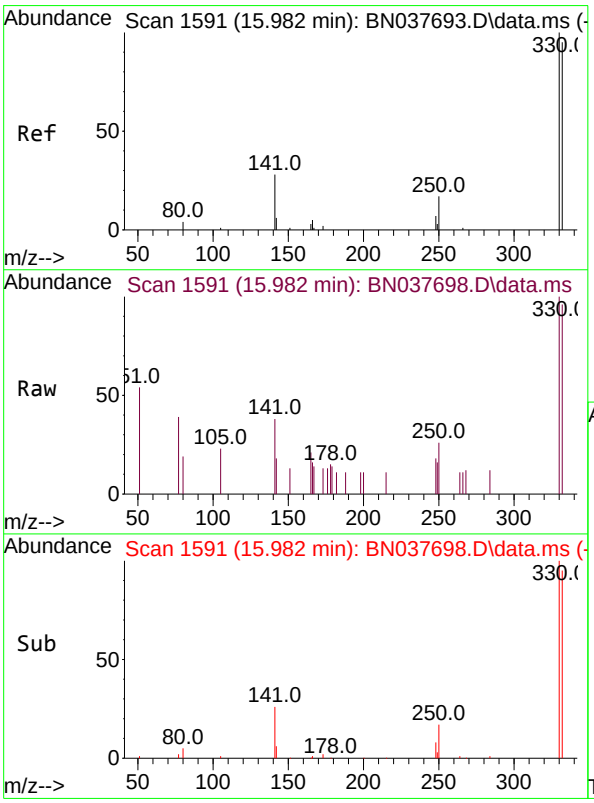

#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.494 min Scan# 14
Delta R.T. -0.000 min
Lab File: BN037698.D
Acq: 11 Sep 2025 14:09

**Instrument :**
BNA_N
**ClientSampleId :**
ICVBN091125

Tgt Ion:164 Resp: 6371

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 164 | 100 | | |
| 162 | 103.9 | 83.1 | 124.7 |
| 160 | 53.4 | 44.3 | 66.5 |

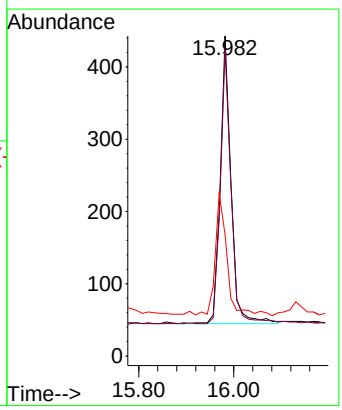


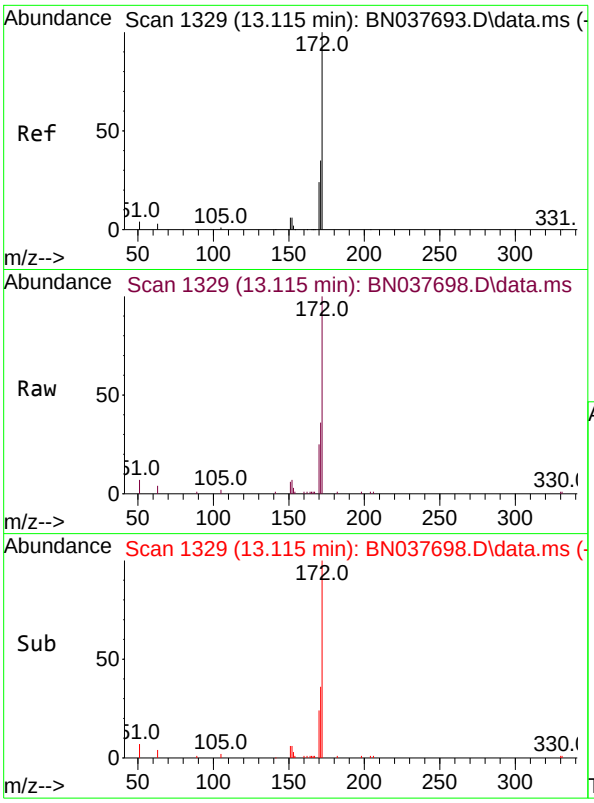




#14
2,4,6-Tribromophenol
Concen: 0.379 ng
RT: 15.982 min Scan# 1591
Delta R.T. -0.000 min
Lab File: BN037698.D
Acq: 11 Sep 2025 14:09

Tgt Ion:330 Resp: 629

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 330 | 100 | | |
| 332 | 94.8 | 75.3 | 112.9 |
| 141 | 45.9 | 35.0 | 52.4 |



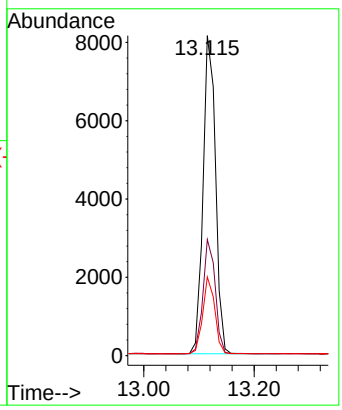


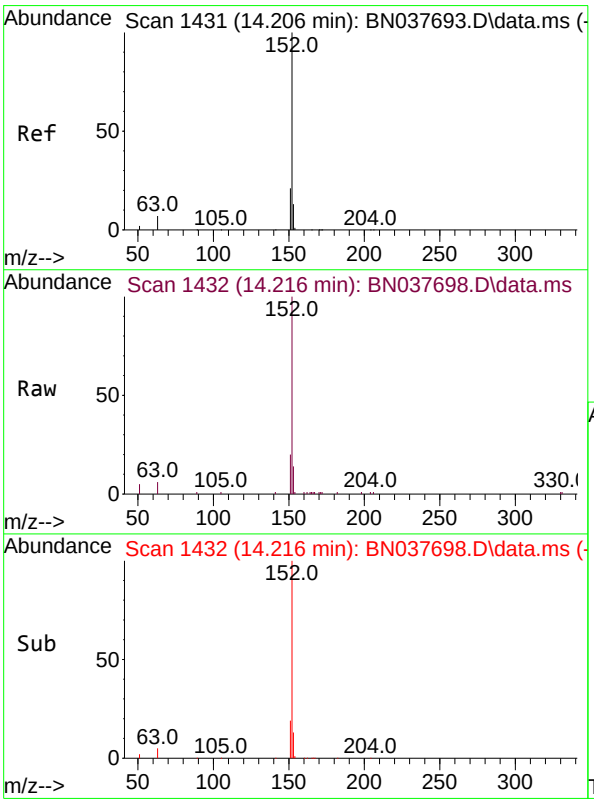

#15
2-Fluorobiphenyl
Concen: 0.476 ng
RT: 13.115 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN037698.D
Acq: 11 Sep 2025 14:09

**Instrument :**
BNA_N
**ClientSampleId :**
ICVBN091125

Tgt Ion:172 Resp: 12687

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 172 | 100 | | |
| 171 | 36.3 | 28.6 | 43.0 |
| 170 | 24.6 | 19.8 | 29.8 |

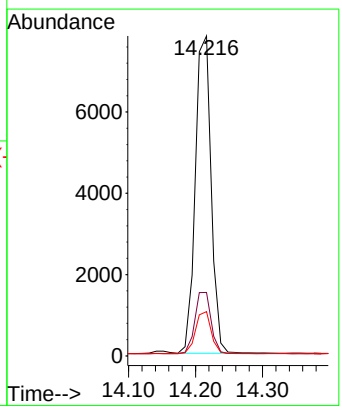


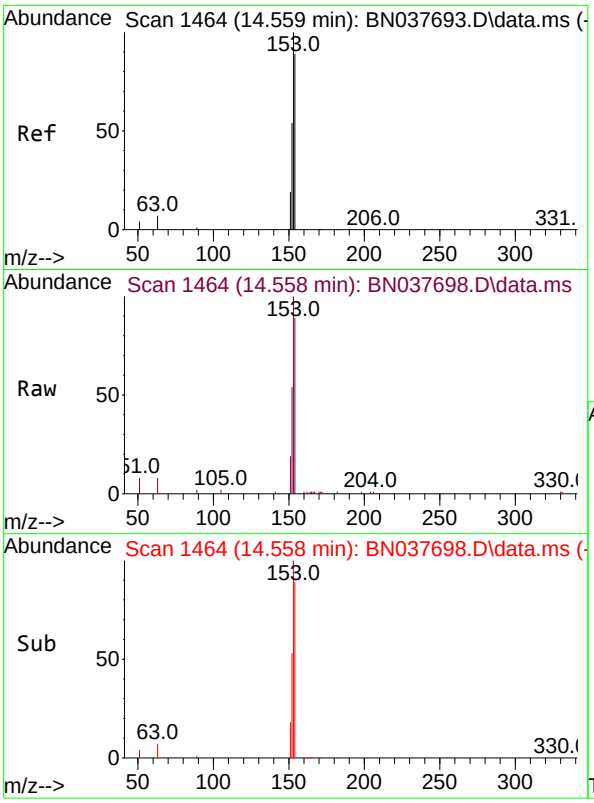




#16
Acenaphthylene
Concen: 0.438 ng
RT: 14.216 min Scan# 1432
Delta R.T. 0.010 min
Lab File: BN037698.D
Acq: 11 Sep 2025 14:09

Tgt Ion:152 Resp: 12785

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 151 | 20.0 | 16.2 | 24.2 |
| 153 | 13.2 | 10.4 | 15.6 |



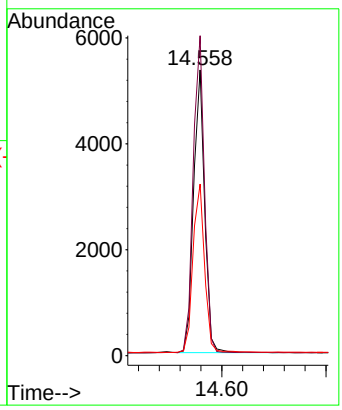


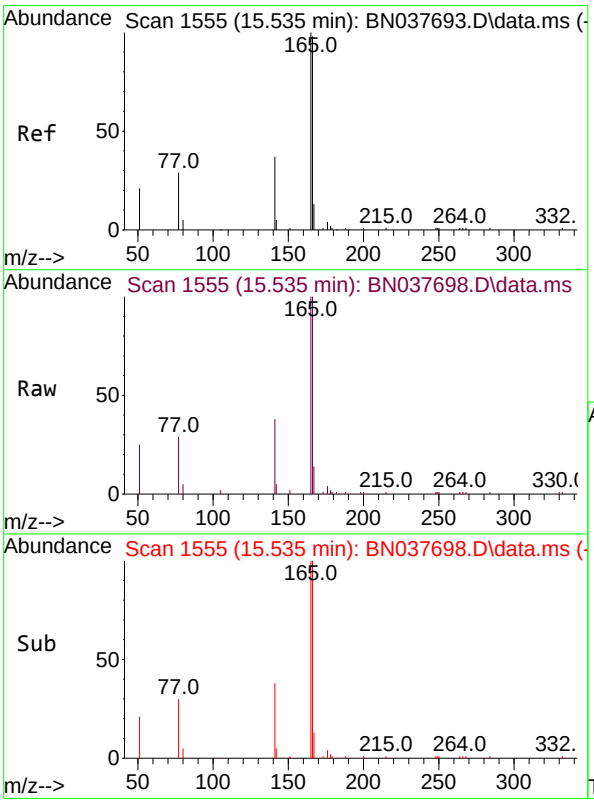

#17
Acenaphthene
Concen: 0.397 ng
RT: 14.558 min Scan# 14
Delta R.T. -0.000 min
Lab File: BN037698.D
Acq: 11 Sep 2025 14:09

**Instrument :**
BNA_N
**ClientSampleId :**
ICVBN091125

Tgt Ion:154 Resp: 7838

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 154 | 100 | | |
| 153 | 114.1 | 89.8 | 134.8 |
| 152 | 63.0 | 50.2 | 75.2 |

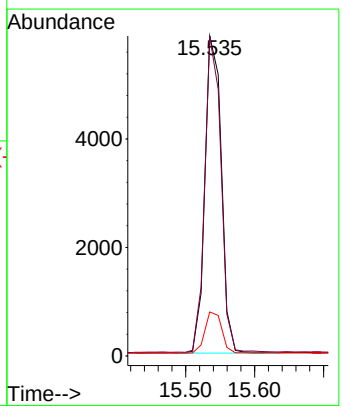


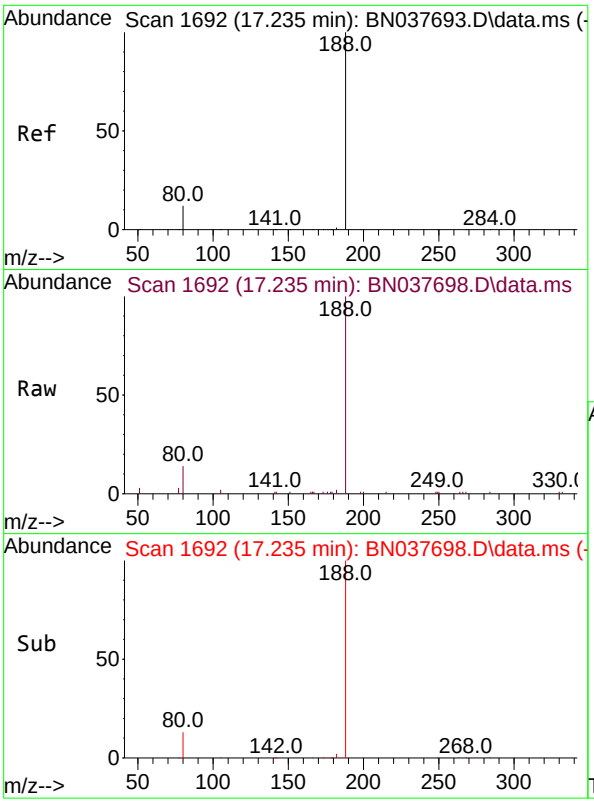




#18
Fluorene
Concen: 0.395 ng
RT: 15.535 min Scan# 1555
Delta R.T. -0.000 min
Lab File: BN037698.D
Acq: 11 Sep 2025 14:09

Tgt Ion:166 Resp: 9460

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 166 | 100 | | |
| 165 | 97.0 | 79.6 | 119.4 |
| 167 | 12.8 | 10.6 | 16.0 |



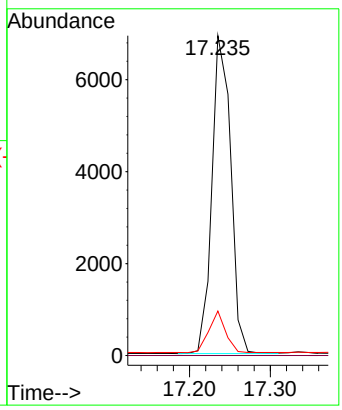


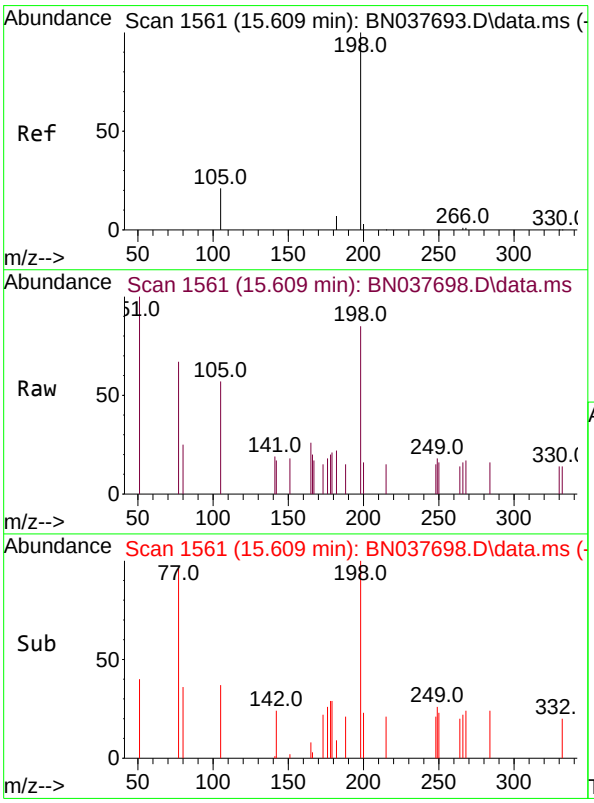

#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.235 min Scan# 1(
Delta R.T. -0.000 min
Lab File: BN037698.D
Acq: 11 Sep 2025 14:09

**Instrument :**
BNA_N
**ClientSampleId :**
ICVBN091125

Tgt Ion:188 Resp: 11165

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 188 | 100 | | |
| 94 | 0.0 | 0.0 | 0.0 |
| 80 | 13.9 | 10.6 | 15.8 |

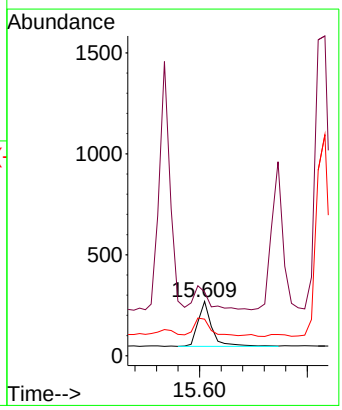


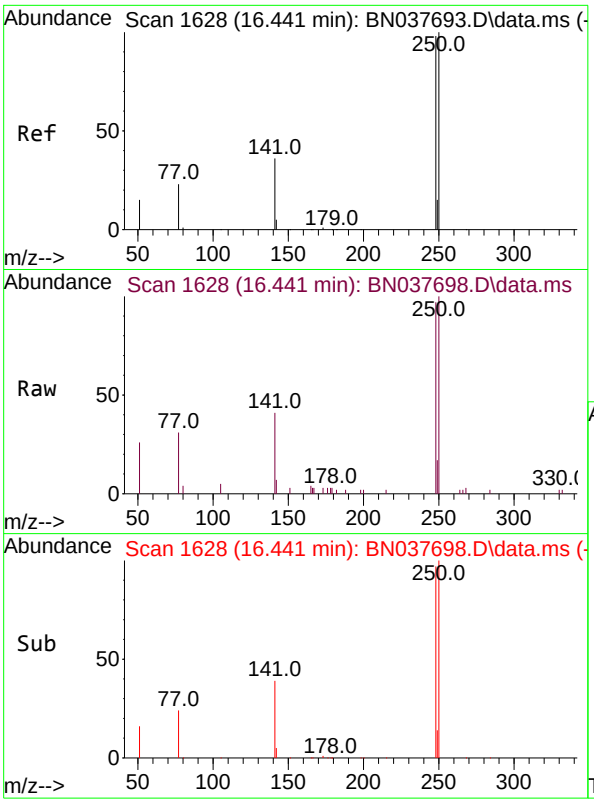




#20
4,6-Dinitro-2-methylphenol
Concen: 0.379 ng
RT: 15.609 min Scan# 1561
Delta R.T. 0.000 min
Lab File: BN037698.D
Acq: 11 Sep 2025 14:09

Tgt Ion:198 Resp: 392

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 198 | 100 | | |
| 51 | 117.5 | 95.1 | 142.7 |
| 105 | 67.3 | 53.8 | 80.6 |



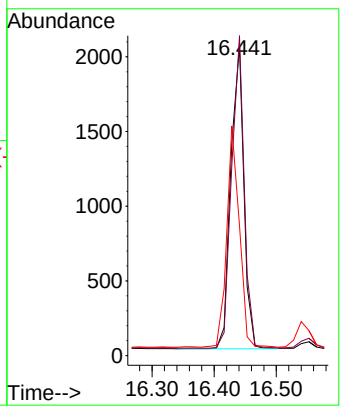


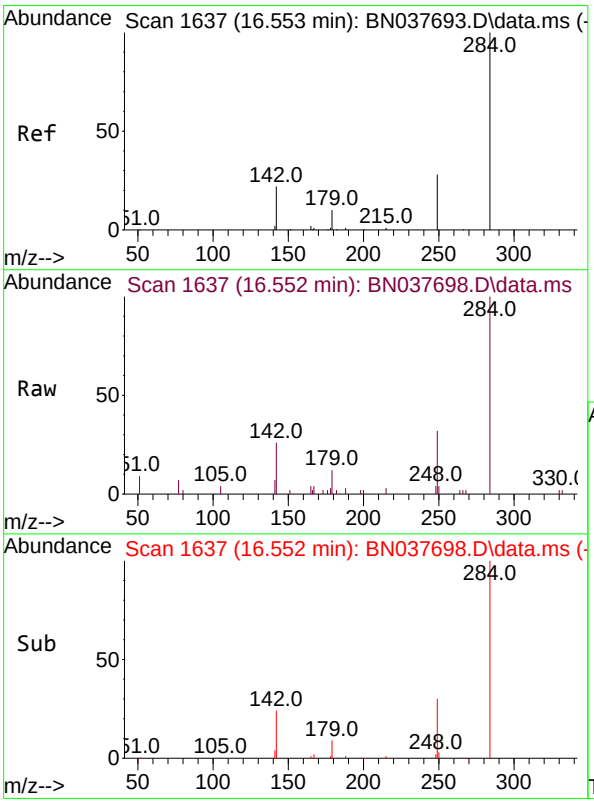

#21
4-Bromophenyl-phenylether
Concen: 0.409 ng
RT: 16.441 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN037698.D
Acq: 11 Sep 2025 14:09

**Instrument :**
BNA_N
**ClientSampleId :**
ICVBN091125

Tgt Ion:248 Resp: 2975

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 248 | 100 | | |
| 250 | 103.5 | 81.5 | 122.3 |
| 141 | 42.2 | 30.8 | 46.2 |

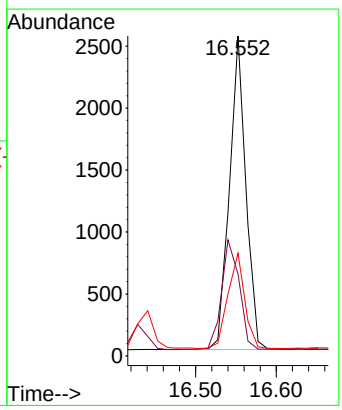


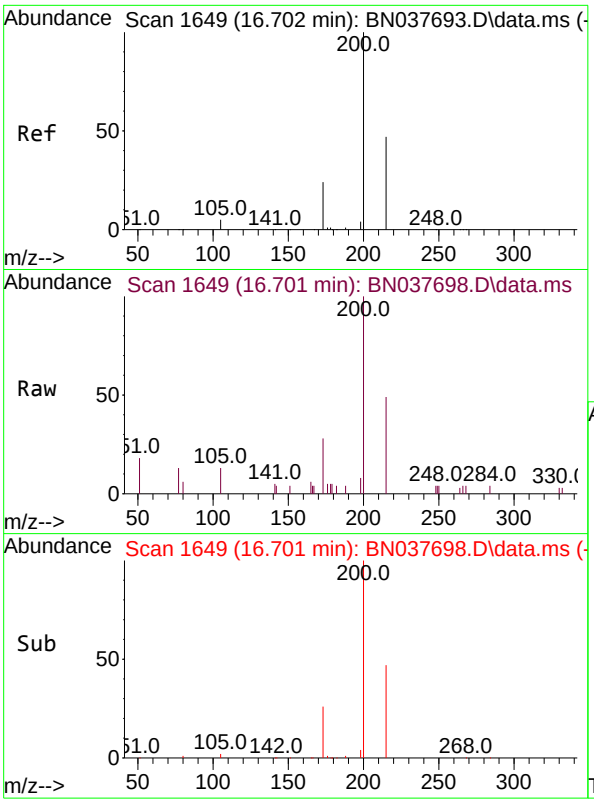




#22
Hexachlorobenzene
Concen: 0.426 ng
RT: 16.552 min Scan# 1637
Delta R.T. -0.000 min
Lab File: BN037698.D
Acq: 11 Sep 2025 14:09

Tgt Ion:284 Resp: 3569

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 284 | 100 | | |
| 142 | 37.8 | 30.9 | 46.3 |
| 249 | 31.2 | 24.8 | 37.2 |



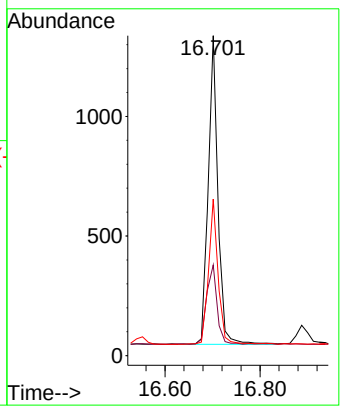


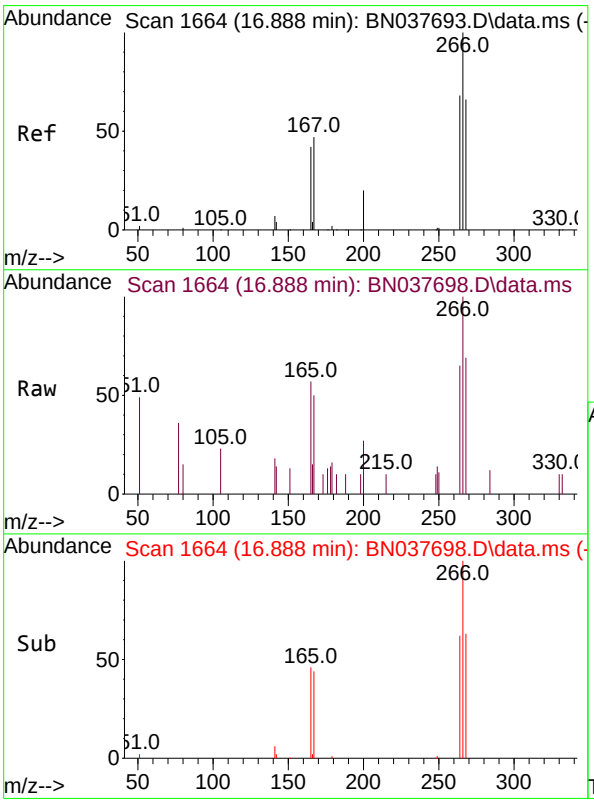

#23
Atrazine
Concen: 0.395 ng
RT: 16.701 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN037698.D
Acq: 11 Sep 2025 14:09

**Instrument :**
BNA_N
**ClientSampleId :**
ICVBN091125

Tgt Ion:200 Resp: 1828

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 200 | 100 | | |
| 173 | 28.3 | 21.4 | 32.2 |
| 215 | 49.0 | 39.2 | 58.8 |

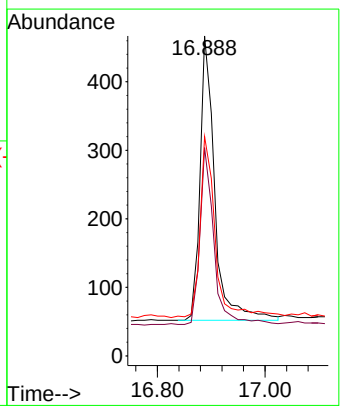


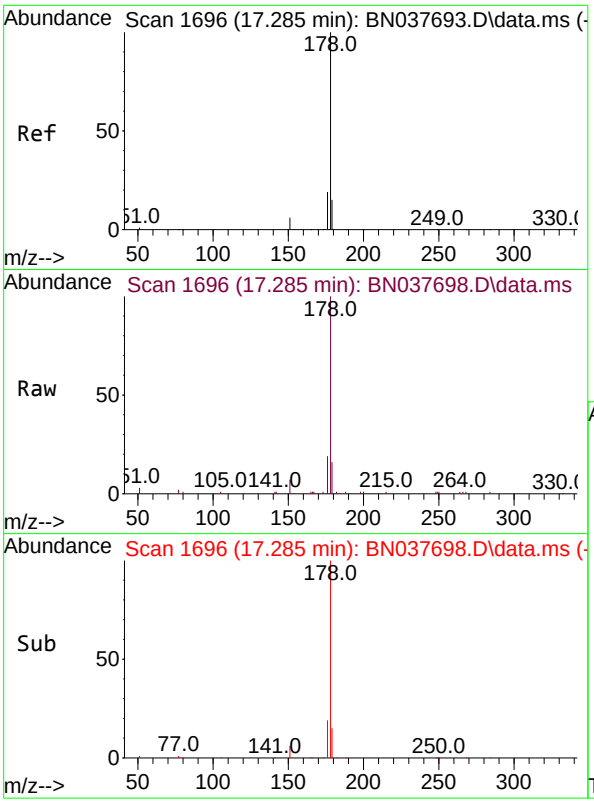




#24
Pentachlorophenol
Concen: 0.323 ng
RT: 16.888 min Scan# 1664
Delta R.T. -0.000 min
Lab File: BN037698.D
Acq: 11 Sep 2025 14:09

Tgt Ion:266 Resp: 785

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 266 | 100 | | |
| 264 | 61.0 | 51.6 | 77.4 |
| 268 | 66.0 | 53.2 | 79.8 |



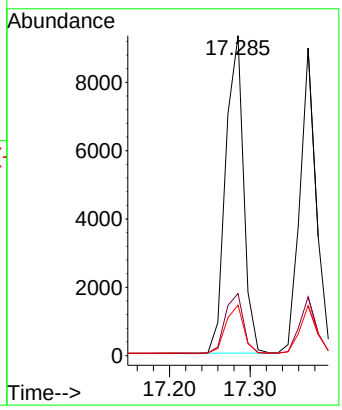


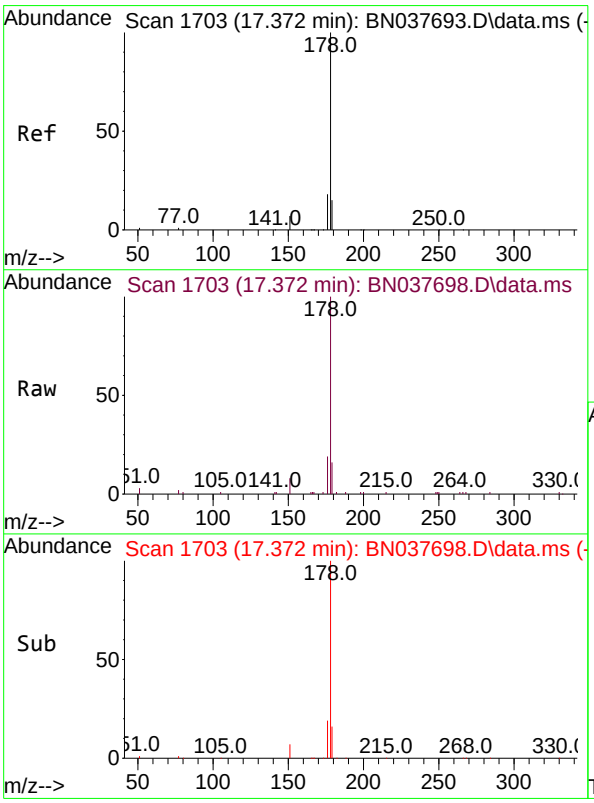

#25
Phenanthrene
Concen: 0.406 ng
RT: 17.285 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN037698.D
Acq: 11 Sep 2025 14:09

**Instrument :**
BNA_N
**ClientSampleId :**
ICVBN091125

Tgt Ion:178 Resp: 14262

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 178 | 100 | | |
| 176 | 19.4 | 15.3 | 22.9 |
| 179 | 15.6 | 12.2 | 18.2 |

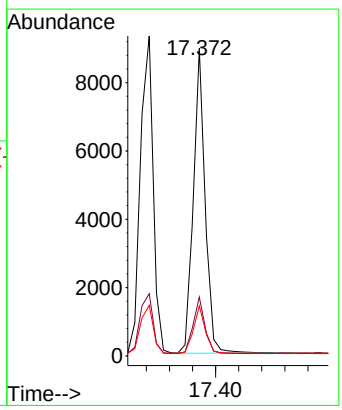


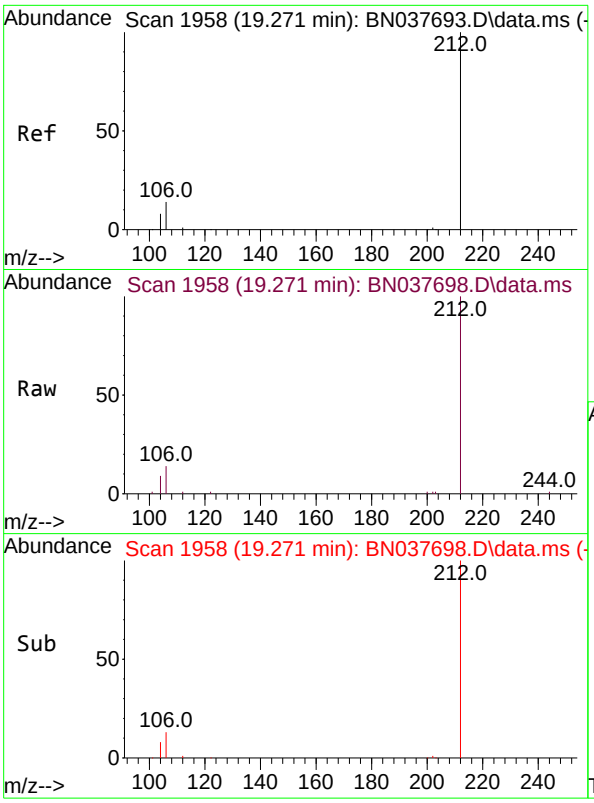




#26
Anthracene
Concen: 0.406 ng
RT: 17.372 min Scan# 1703
Delta R.T. -0.000 min
Lab File: BN037698.D
Acq: 11 Sep 2025 14:09

Tgt Ion:178 Resp: 12642

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 178 | 100 | | |
| 176 | 18.6 | 14.6 | 22.0 |
| 179 | 15.7 | 12.2 | 18.4 |



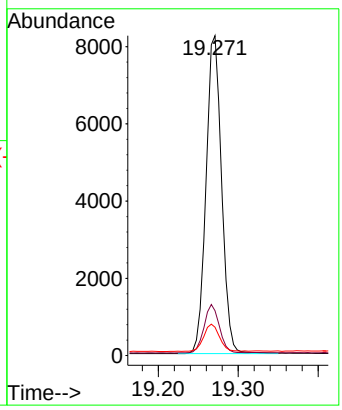


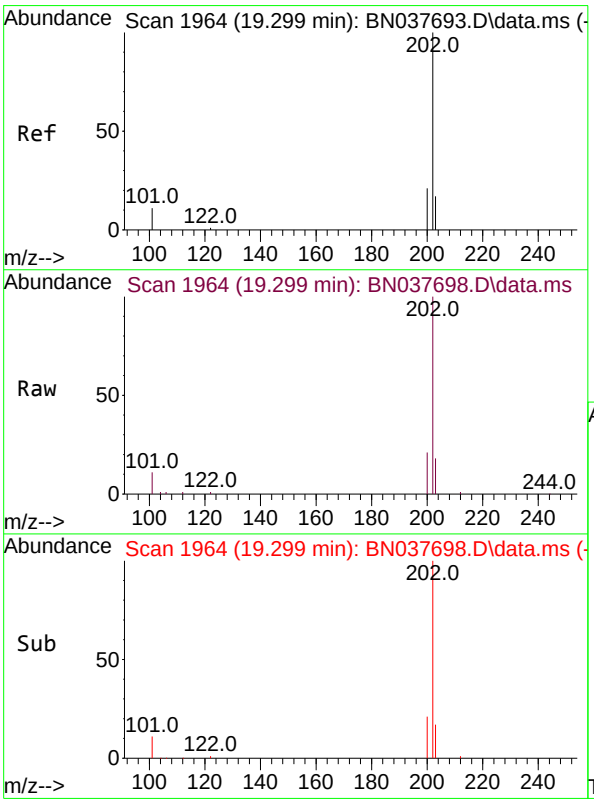

#27
Fluoranthene-d10
Concen: 0.397 ng
RT: 19.271 min Scan# 19
Delta R.T. -0.000 min
Lab File: BN037698.D
Acq: 11 Sep 2025 14:09

**Instrument :**
BNA_N
**ClientSampleId :**
ICVBN091125

Tgt Ion:212 Resp: 11138

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 212 | 100 | | |
| 106 | 15.1 | 12.2 | 18.2 |
| 104 | 8.8 | 6.9 | 10.3 |

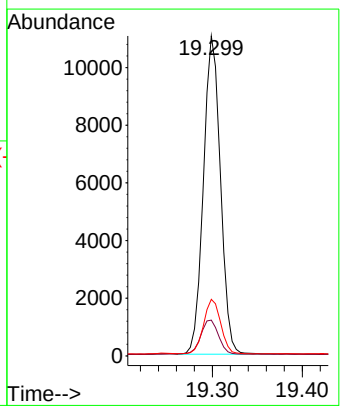


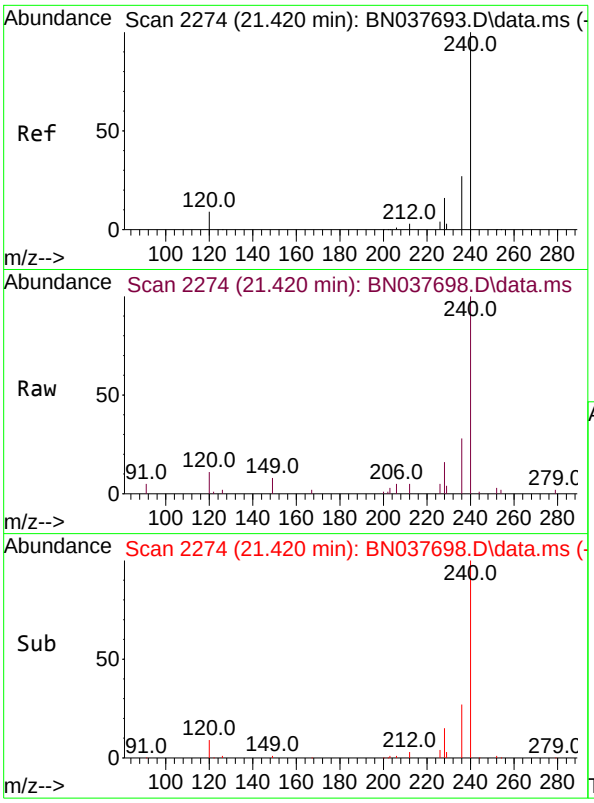




#28
Fluoranthene
Concen: 0.375 ng
RT: 19.299 min Scan# 1964
Delta R.T. -0.000 min
Lab File: BN037698.D
Acq: 11 Sep 2025 14:09

Tgt Ion:202 Resp: 14471

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 202 | 100 | | |
| 101 | 11.5 | 9.3 | 13.9 |
| 203 | 17.1 | 13.7 | 20.5 |



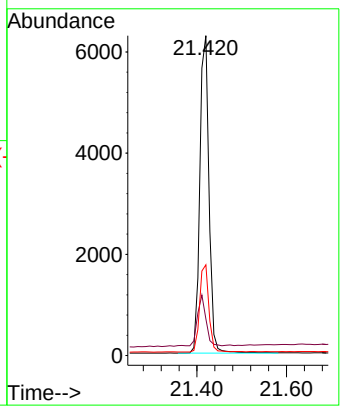


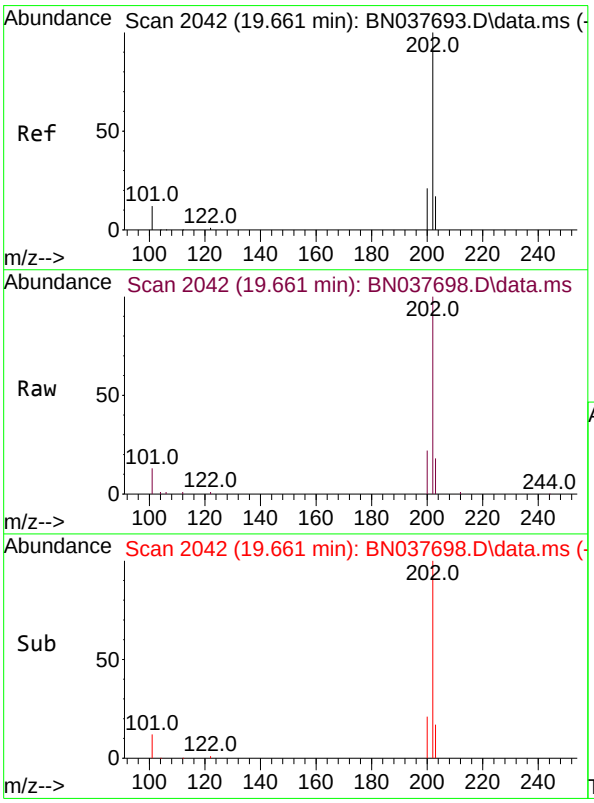

#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.420 min Scan# 2
Delta R.T. -0.000 min
Lab File: BN037698.D
Acq: 11 Sep 2025 14:09

**Instrument :**
BNA_N
**ClientSampleId :**
ICVBN091125

Tgt Ion:240 Resp: 8931

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 240 | 100 | | |
| 120 | 11.5 | 9.2 | 13.8 |
| 236 | 28.4 | 22.6 | 33.8 |

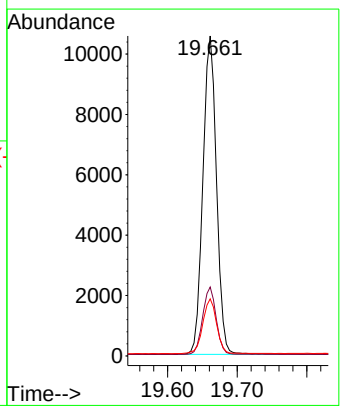


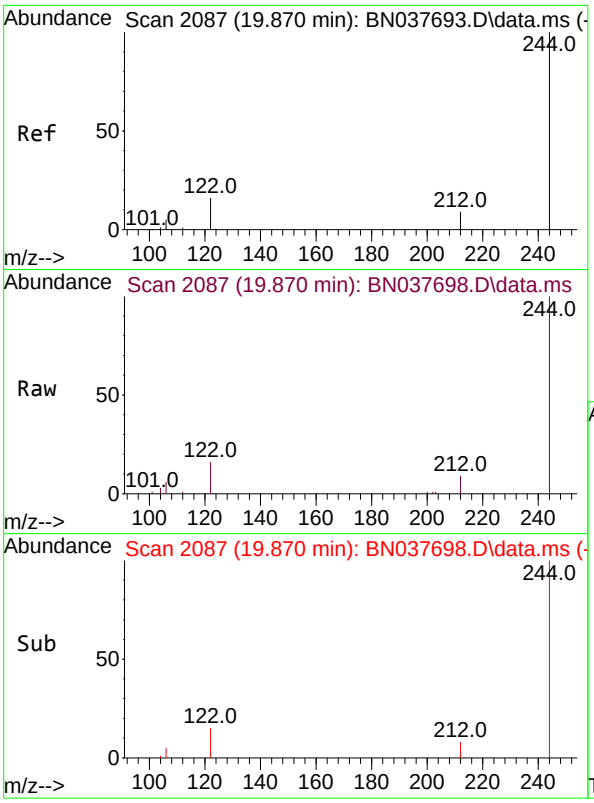




#30
Pyrene
Concen: 0.410 ng
RT: 19.661 min Scan# 2042
Delta R.T. -0.000 min
Lab File: BN037698.D
Acq: 11 Sep 2025 14:09

Tgt Ion:202 Resp: 14323

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 202 | 100 | | |
| 200 | 20.9 | 16.8 | 25.2 |
| 203 | 17.6 | 14.3 | 21.5 |



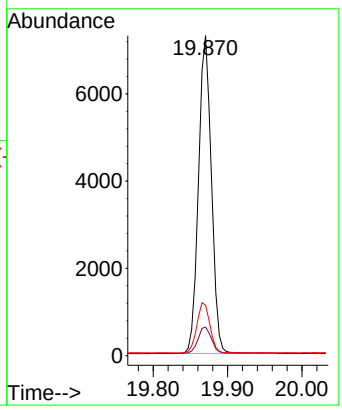


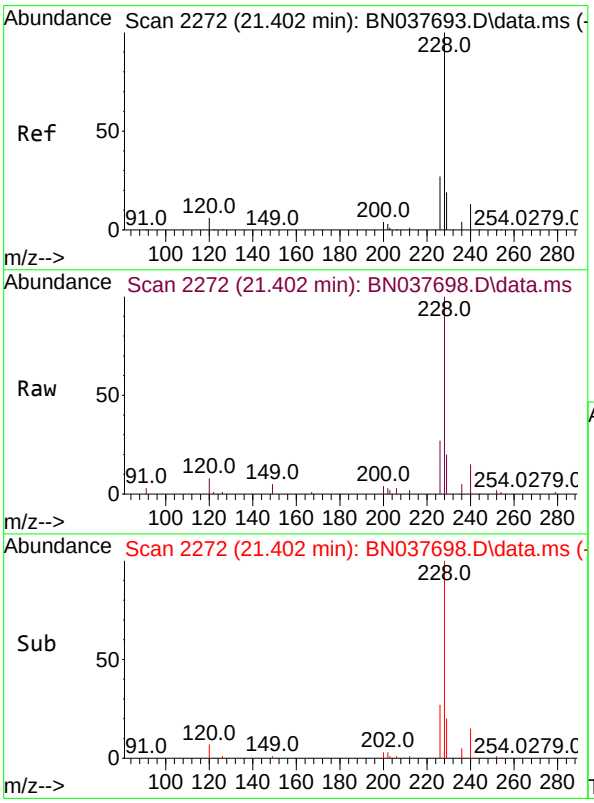

#31
Terphenyl-d14
Concen: 0.484 ng
RT: 19.870 min Scan# 20
Delta R.T. -0.000 min
Lab File: BN037698.D
Acq: 11 Sep 2025 14:09

**Instrument :**
BNA_N
**ClientSampleId :**
ICVBN091125

Tgt Ion:244 Resp: 8765

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 244 | 100 | | |
| 212 | 8.9 | 7.5 | 11.3 |
| 122 | 15.8 | 13.2 | 19.8 |

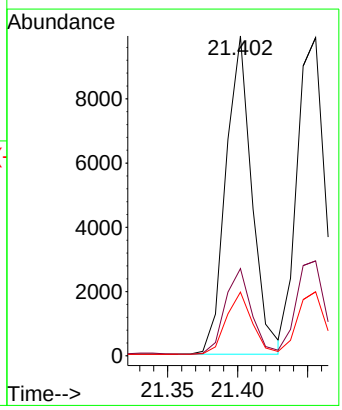


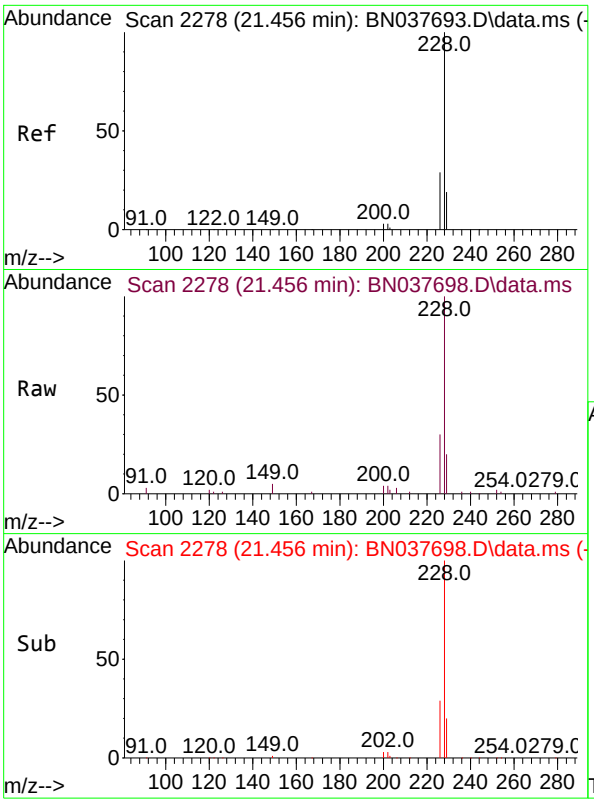




#32
Benzo(a)anthracene
Concen: 0.411 ng
RT: 21.402 min Scan# 2272
Delta R.T. -0.000 min
Lab File: BN037698.D
Acq: 11 Sep 2025 14:09

Tgt Ion:228 Resp: 12803

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 228 | 100 | | |
| 226 | 27.3 | 22.2 | 33.2 |
| 229 | 19.9 | 15.8 | 23.6 |



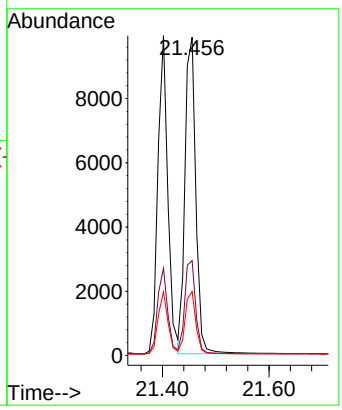


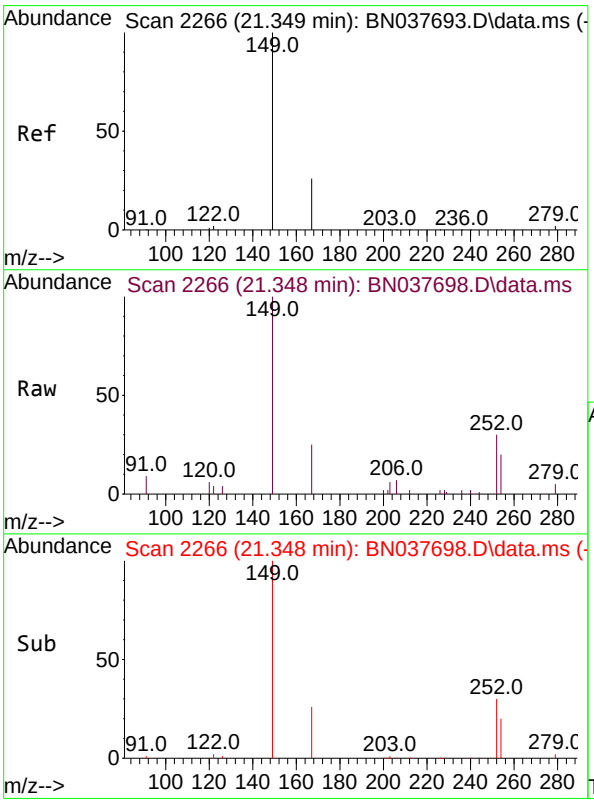

#33
Chrysene
Concen: 0.418 ng
RT: 21.456 min Scan# 2
Delta R.T. -0.000 min
Lab File: BN037698.D
Acq: 11 Sep 2025 14:09

**Instrument :**
BNA_N
**ClientSampleId :**
ICVBN091125

Tgt Ion:228 Resp: 13963

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 228 | 100 | | |
| 226 | 29.9 | 23.5 | 35.3 |
| 229 | 20.1 | 15.9 | 23.9 |

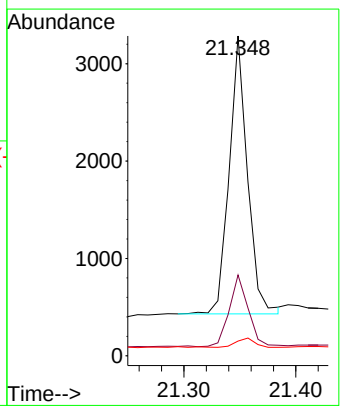


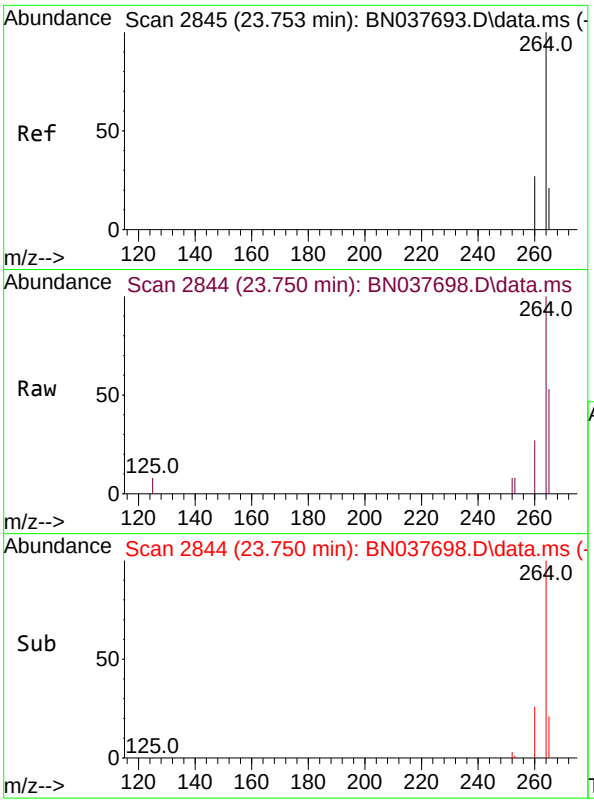




#34
Bis(2-ethylhexyl)phthalate
Concen: 0.351 ng
RT: 21.348 min Scan# 2266
Delta R.T. -0.000 min
Lab File: BN037698.D
Acq: 11 Sep 2025 14:09

Tgt Ion:149 Resp: 3245

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 149 | 100 | | |
| 167 | 26.8 | 20.8 | 31.2 |
| 279 | 3.3 | 3.3 | 4.9# |



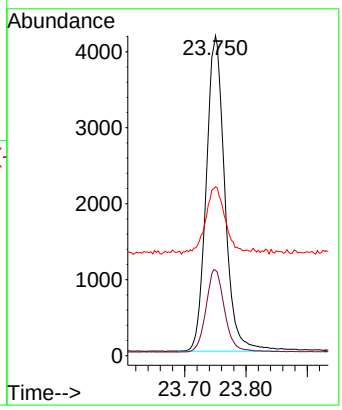


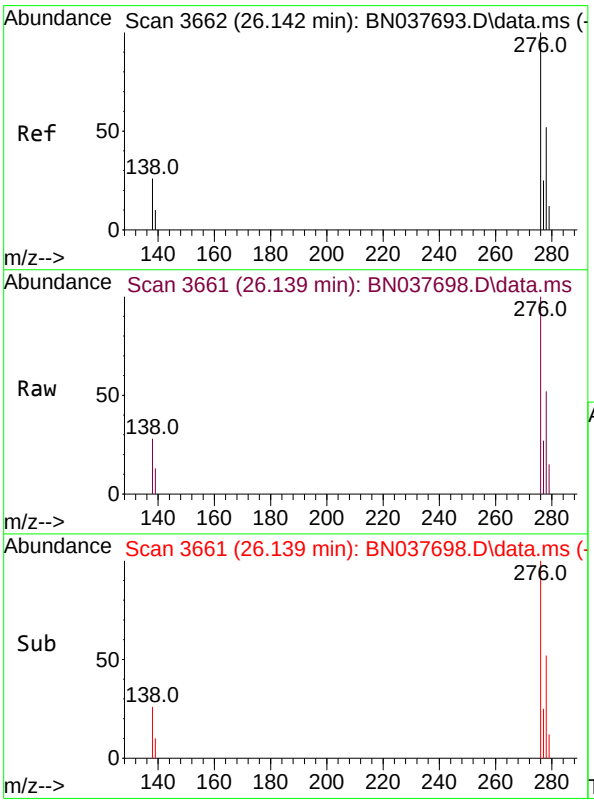

#35
Perylene-d12
Concen: 0.400 ng
RT: 23.750 min Scan# 28
Delta R.T. -0.003 min
Lab File: BN037698.D
Acq: 11 Sep 2025 14:09

**Instrument :**
BNA_N
**ClientSampleId :**
ICVBN091125

Tgt Ion:264 Resp: 8751

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 264 | 100 | | |
| 260 | 26.7 | 21.8 | 32.8 |
| 265 | 52.8 | 39.4 | 59.2 |

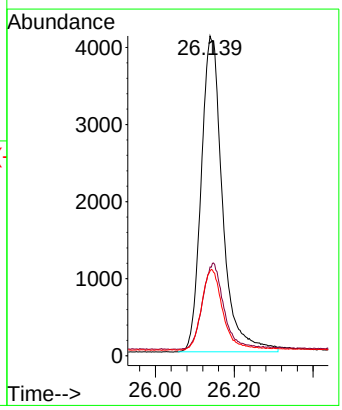


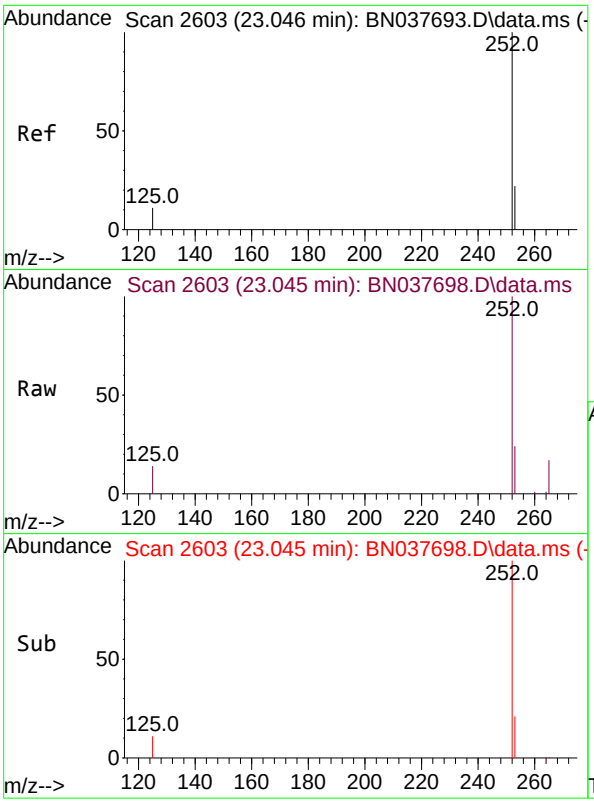




#36
Indeno(1,2,3-cd)pyrene
Concen: 0.420 ng
RT: 26.139 min Scan# 3661
Delta R.T. -0.003 min
Lab File: BN037698.D
Acq: 11 Sep 2025 14:09

Tgt Ion:276 Resp: 15430

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 276 | 100 | | |
| 138 | 27.4 | 21.9 | 32.9 |
| 277 | 25.3 | 20.1 | 30.1 |



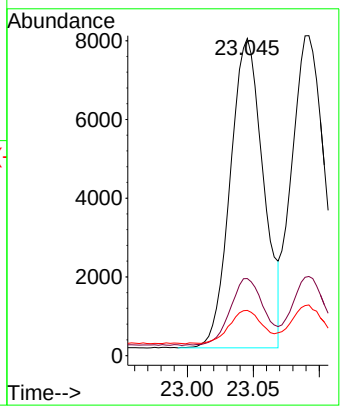


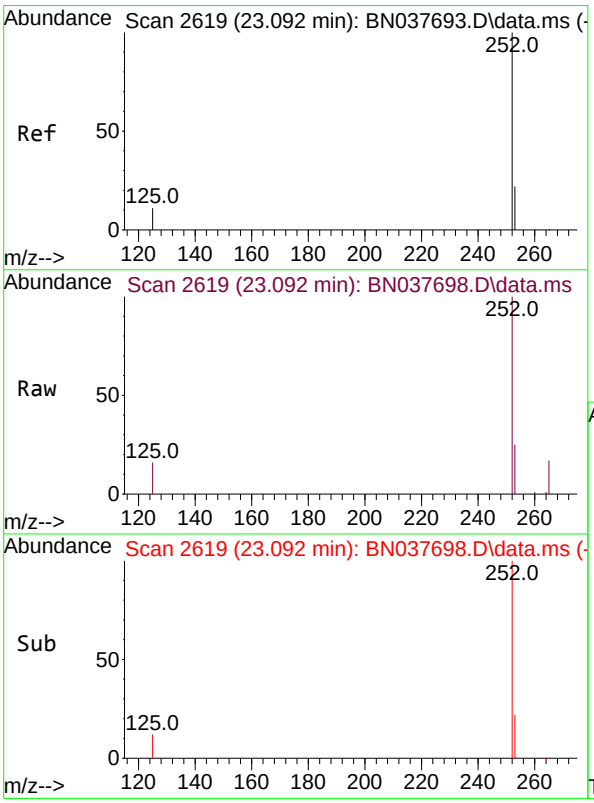

#37
Benzo(b)fluoranthene
Concen: 0.398 ng
RT: 23.045 min Scan# 2
Delta R.T. -0.000 min
Lab File: BN037698.D
Acq: 11 Sep 2025 14:09

**Instrument :**
BNA_N
**ClientSampleId :**
ICVBN091125

Tgt Ion:252 Resp: 13718

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 24.3 | 19.4 | 29.2 |
| 125 | 14.3 | 11.2 | 16.8 |

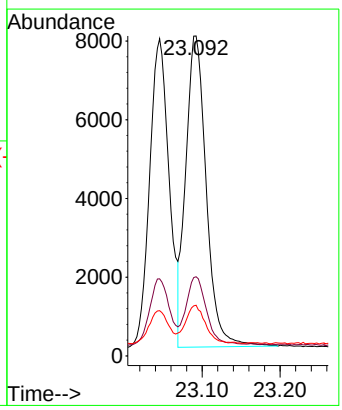


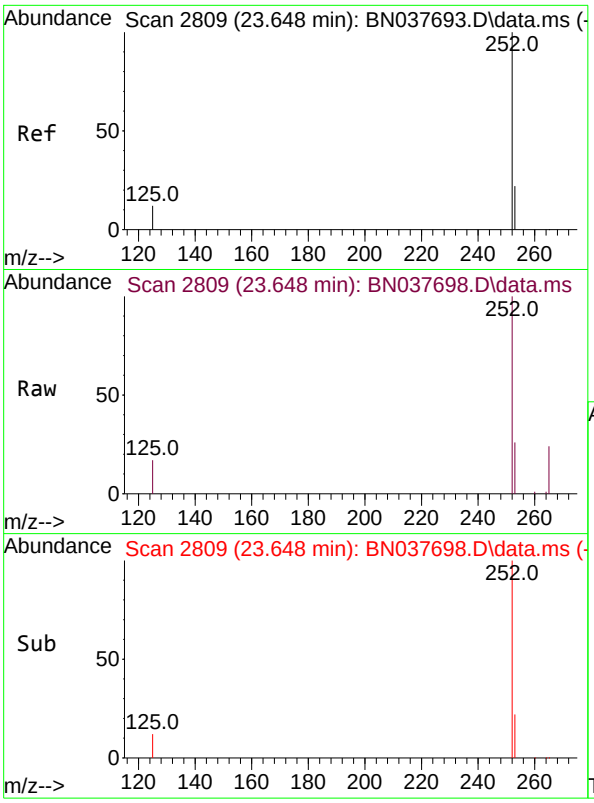




#38
Benzo(k)fluoranthene
Concen: 0.412 ng
RT: 23.092 min Scan# 2619
Delta R.T. -0.000 min
Lab File: BN037698.D
Acq: 11 Sep 2025 14:09

Tgt Ion:252 Resp: 14465

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 24.7 | 19.4 | 29.0 |
| 125 | 15.8 | 11.6 | 17.4 |



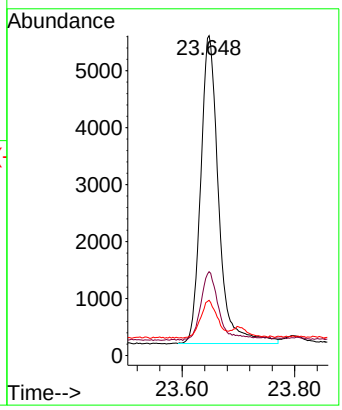


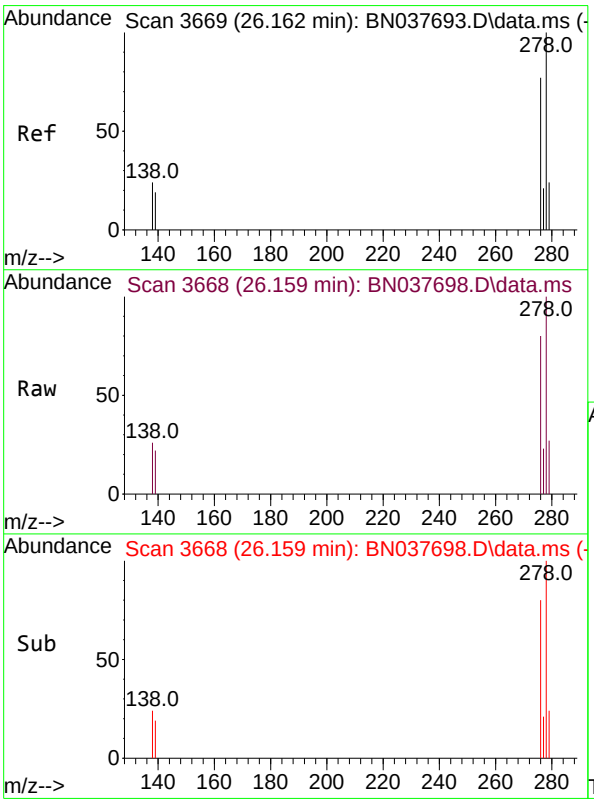

#39
Benzo(a)pyrene
Concen: 0.433 ng
RT: 23.648 min Scan# 28
Delta R.T. -0.000 min
Lab File: BN037698.D
Acq: 11 Sep 2025 14:09

**Instrument :**
BNA_N
**ClientSampleId :**
ICVBN091125

Tgt Ion:252 Resp: 11950

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 26.2 | 20.8 | 31.2 |
| 125 | 17.3 | 13.9 | 20.9 |

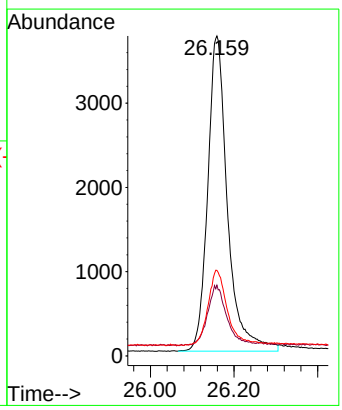


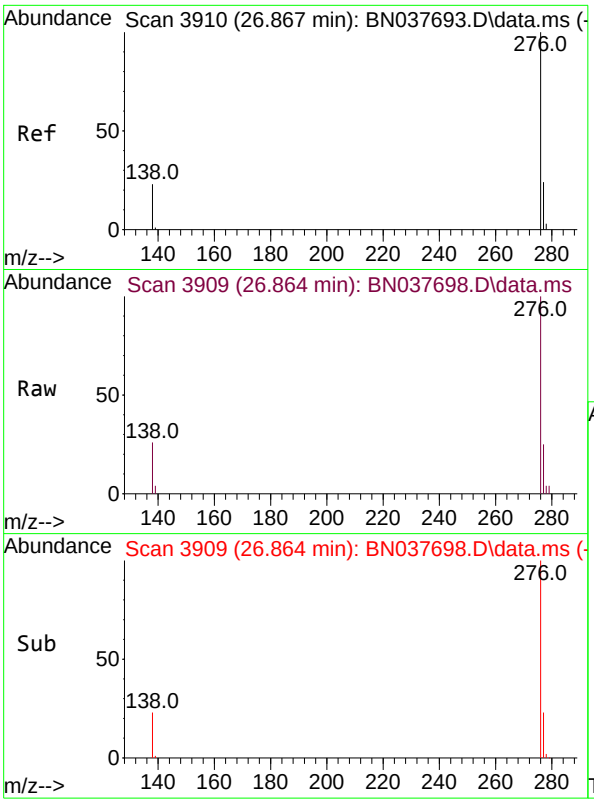




#40
Dibenzo(a,h)anthracene
Concen: 0.419 ng
RT: 26.159 min Scan# 3668
Delta R.T. -0.003 min
Lab File: BN037698.D
Acq: 11 Sep 2025 14:09

Tgt Ion:278 Resp: 12290

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 278 | 100 | | |
| 139 | 22.1 | 17.8 | 26.6 |
| 279 | 26.7 | 22.0 | 33.0 |



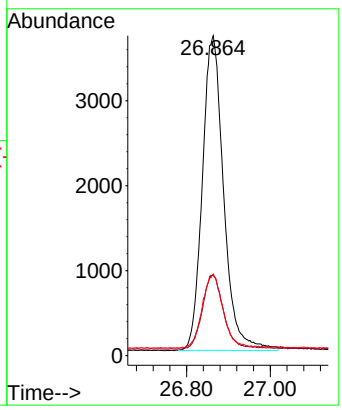



#41
Benzo(g,h,i)perylene
Concen: 0.398 ng
RT: 26.864 min Scan# 3
Delta R.T. -0.003 min
Lab File: BN037698.D
Acq: 11 Sep 2025 14:09

**Instrument :**
BNA_N
**ClientSampleId :**
ICVBN091125

Tgt Ion:276 Resp: 13095

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 276 | 100 | | |
| 277 | 25.1 | 20.6 | 31.0 |
| 138 | 25.5 | 20.2 | 30.2 |



Evaluate Continuing Calibration Report

ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN091125\
Data File : BN037698.D
Acq On : 11 Sep 2025 14:09
Operator : RC/JU
Sample : SSTDICV0.4
Misc :
ALS Vial : 10 Sample Multiplier: 1

**Instrument :**
BNA_N
**ClientSampleId :**
ICVBN091125

Quant Time: Sep 11 16:00:40 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN091125.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Sep 11 14:20:01 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 | 101 | 0.00 |
| 2 | | 1,4-Dioxane | 0.417 | 0.489 | -17.3 | 117 | 0.00 |
| 3 | | n-Nitrosodimethylamine | 0.544 | 0.581 | -6.8 | 104 | 0.00 |
| 4 | S | 2-Fluorophenol | 0.918 | 0.904 | 1.5 | 102 | 0.00 |
| 5 | S | Phenol-d6 | 1.191 | 1.132 | 5.0 | 99 | 0.00 |
| 6 | | bis(2-Chloroethyl)ether | 1.064 | 1.147 | -7.8 | 108 | 0.00 |
| 7 | I | Naphthalene-d8 | 1.000 | 1.000 | 0.0 | 102 | 0.00 |
| 8 | S | Nitrobenzene-d5 | 0.293 | 0.332 | -13.3 | 119 | 0.00 |
| 9 | | Naphthalene | 1.093 | 1.118 | -2.3 | 106 | 0.00 |
| 10 | | Hexachlorobutadiene | 0.198 | 0.208 | -5.1 | 108 | 0.00 |
| 11 | SURR | 2-Methylnaphthalene-d10 | 0.530 | 0.563 | -6.2 | 116 | 0.00 |
| 12 | | 2-Methylnaphthalene | 0.676 | 0.634 | 6.2 | 98 | 0.00 |
| 13 | I | Acenaphthene-d10 | 1.000 | 1.000 | 0.0 | 103 | 0.00 |
| 14 | S | 2,4,6-Tribromophenol | 0.104 | 0.099 | 4.8 | 101 | 0.00 |
| 15 | S | 2-Fluorobiphenyl | 1.673 | 1.991 | -19.0 | 124 | 0.00 |
| 16 | | Acenaphthylene | 1.834 | 2.007 | -9.4 | 116 | 0.01 |
| 17 | | Acenaphthene | 1.240 | 1.230 | 0.8 | 104 | 0.00 |
| 18 | | Fluorene | 1.502 | 1.485 | 1.1 | 106 | 0.00 |
| 19 | I | Phenanthrene-d10 | 1.000 | 1.000 | 0.0 | 99 | 0.00 |
| 20 | | 4,6-Dinitro-2-methylphenol | 0.037 | 0.035 | 5.4 | 105 | 0.00 |
| 21 | | 4-Bromophenyl-phenylether | 0.261 | 0.266 | -1.9 | 105 | 0.00 |
| 22 | | Hexachlorobenzene | 0.300 | 0.320 | -6.7 | 108 | 0.00 |
| 23 | | Atrazine | 0.166 | 0.164 | 1.2 | 107 | 0.00 |
| 24 | | Pentachlorophenol | 0.087 | 0.070 | 19.5 | 94 | 0.00 |
| 25 | | Phenanthrene | 1.259 | 1.277 | -1.4 | 104 | 0.00 |
| 26 | | Anthracene | 1.116 | 1.132 | -1.4 | 105 | 0.00 |
| 27 | SURR | Fluoranthene-d10 | 1.004 | 0.998 | 0.6 | 106 | 0.00 |
| 28 | | Fluoranthene | 1.381 | 1.296 | 6.2 | 98 | 0.00 |
| 29 | I | Chrysene-d12 | 1.000 | 1.000 | 0.0 | 95 | 0.00 |
| 30 | | Pyrene | 1.566 | 1.604 | -2.4 | 98 | 0.00 |
| 31 | S | Terphenyl-d14 | 0.812 | 0.981 | -20.8 | 117 | 0.00 |
| 32 | | Benzo(a)anthracene | 1.395 | 1.434 | -2.8 | 101 | 0.00 |
| 33 | | Chrysene | 1.496 | 1.563 | -4.5 | 100 | 0.00 |
| 34 | | Bis(2-ethylhexyl)phthalate | 0.414 | 0.363 | 12.3 | 92 | 0.00 |
| 35 | I | Perylene-d12 | 1.000 | 1.000 | 0.0 | 98 | 0.00 |
| 36 | | Indeno(1,2,3-cd)pyrene | 1.681 | 1.763 | -4.9 | 112 | 0.00 |
| 37 | | Benzo(b)fluoranthene | 1.575 | 1.568 | 0.4 | 98 | 0.00 |
| 38 | | Benzo(k)fluoranthene | 1.606 | 1.653 | -2.9 | 106 | 0.00 |
| 39 | C | Benzo(a)pyrene | 1.261 | 1.366 | -8.3 | 111 | 0.00 |
| 40 | | Dibenzo(a,h)anthracene | 1.342 | 1.404 | -4.6 | 113 | 0.00 |
| 41 | | Benzo(g,h,i)perylene | 1.506 | 1.496 | 0.7 | 101 | 0.00 |

(#) = Out of Range SPCC's out = 0 CCC's out = 0

**Instrument :**
BNA_N
**ClientSampleId :**
ICVBN091125

Evaluate Continuing Calibration Report

ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN091125\
Data File : BN037698.D
Acq On : 11 Sep 2025 14:09
Operator : RC/JU
Sample : SSTDICV0.4
Misc :
ALS Vial : 10 Sample Multiplier: 1

**Instrument :**
BNA_N
**ClientSampleId :**
ICVBN091125

Quant Time: Sep 11 16:00:40 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN091125.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Sep 11 14:20:01 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 | 101 | 0.00 |
| 2 | | 1,4-Dioxane | 0.400 | 0.469 | -17.2 | 117 | 0.00 |
| 3 | | n-Nitrosodimethylamine | 0.400 | 0.427 | -6.7 | 104 | 0.00 |
| 4 | S | 2-Fluorophenol | 0.400 | 0.394 | 1.5 | 102 | 0.00 |
| 5 | S | Phenol-d6 | 0.400 | 0.380 | 5.0 | 99 | 0.00 |
| 6 | | bis(2-Chloroethyl)ether | 0.400 | 0.431 | -7.7 | 108 | 0.00 |
| 7 | I | Naphthalene-d8 | 0.400 | 0.400 | 0.0 | 102 | 0.00 |
| 8 | S | Nitrobenzene-d5 | 0.400 | 0.454 | -13.5 | 119 | 0.00 |
| 9 | | Naphthalene | 0.400 | 0.409 | -2.2 | 106 | 0.00 |
| 10 | | Hexachlorobutadiene | 0.400 | 0.420 | -5.0 | 108 | 0.00 |
| 11 | SURR | 2-Methylnaphthalene-d10 | 0.400 | 0.425 | -6.2 | 116 | 0.00 |
| 12 | | 2-Methylnaphthalene | 0.400 | 0.375 | 6.3 | 98 | 0.00 |
| 13 | I | Acenaphthene-d10 | 0.400 | 0.400 | 0.0 | 103 | 0.00 |
| 14 | S | 2,4,6-Tribromophenol | 0.400 | 0.379 | 5.3 | 101 | 0.00 |
| 15 | S | 2-Fluorobiphenyl | 0.400 | 0.476 | -19.0 | 124 | 0.00 |
| 16 | | Acenaphthylene | 0.400 | 0.438 | -9.5 | 116 | 0.01 |
| 17 | | Acenaphthene | 0.400 | 0.397 | 0.8 | 104 | 0.00 |
| 18 | | Fluorene | 0.400 | 0.395 | 1.3 | 106 | 0.00 |
| 19 | I | Phenanthrene-d10 | 0.400 | 0.400 | 0.0 | 99 | 0.00 |
| 20 | | 4,6-Dinitro-2-methylphenol | 0.400 | 0.379 | 5.3 | 105 | 0.00 |
| 21 | | 4-Bromophenyl-phenylether | 0.400 | 0.409 | -2.2 | 105 | 0.00 |
| 22 | | Hexachlorobenzene | 0.400 | 0.426 | -6.5 | 108 | 0.00 |
| 23 | | Atrazine | 0.400 | 0.395 | 1.3 | 107 | 0.00 |
| 24 | | Pentachlorophenol | 0.400 | 0.323 | 19.3 | 94 | 0.00 |
| 25 | | Phenanthrene | 0.400 | 0.406 | -1.5 | 104 | 0.00 |
| 26 | | Anthracene | 0.400 | 0.406 | -1.5 | 105 | 0.00 |
| 27 | SURR | Fluoranthene-d10 | 0.400 | 0.397 | 0.8 | 106 | 0.00 |
| 28 | | Fluoranthene | 0.400 | 0.375 | 6.3 | 98 | 0.00 |
| 29 | I | Chrysene-d12 | 0.400 | 0.400 | 0.0 | 95 | 0.00 |
| 30 | | Pyrene | 0.400 | 0.410 | -2.5 | 98 | 0.00 |
| 31 | S | Terphenyl-d14 | 0.400 | 0.484 | -21.0 | 117 | 0.00 |
| 32 | | Benzo(a)anthracene | 0.400 | 0.411 | -2.7 | 101 | 0.00 |
| 33 | | Chrysene | 0.400 | 0.418 | -4.5 | 100 | 0.00 |
| 34 | | Bis(2-ethylhexyl)phthalate | 0.400 | 0.351 | 12.3 | 92 | 0.00 |
| 35 | I | Perylene-d12 | 0.400 | 0.400 | 0.0 | 98 | 0.00 |
| 36 | | Indeno(1,2,3-cd)pyrene | 0.400 | 0.420 | -5.0 | 112 | 0.00 |
| 37 | | Benzo(b)fluoranthene | 0.400 | 0.398 | 0.5 | 98 | 0.00 |
| 38 | | Benzo(k)fluoranthene | 0.400 | 0.412 | -3.0 | 106 | 0.00 |
| 39 | C | Benzo(a)pyrene | 0.400 | 0.433 | -8.2 | 111 | 0.00 |
| 40 | | Dibenzo(a,h)anthracene | 0.400 | 0.419 | -4.7 | 113 | 0.00 |
| 41 | | Benzo(g,h,i)perylene | 0.400 | 0.398 | 0.5 | 101 | 0.00 |

(#) = Out of Range SPCC's out = 0 CCC's out = 0

**Instrument :**
BNA_N
**ClientSampleId :**
ICVBN091125

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

7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: Alliance Contract: AECO15

Lab Code: ACE SDG No.: Q3095

Instrument ID: BNA_N Calibration Date/Time: 09/17/2025 11:25

Lab File ID: BN037740.D Init. Calib. Date(s): 09/11/2025 09/11/2025

EPA Sample No.: SSTDCCC0.4 Init. Calib. Time(s): 09:56 13:33

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

| COMPOUND | RRF | RRF0.4 | MIN RRF | %D | MAX%D |
|---|---|---|---|---|---|
| 2-Methylnaphthalene-d10 | 0.530 | 0.517 | | -2.5 | 20.0 |
| Fluoranthene-d10 | 1.004 | 0.936 | | -6.8 | 20.0 |
| 2-Fluorophenol | 0.918 | 0.926 | | 0.9 | 20.0 |
| Phenol-d6 | 1.191 | 1.176 | | -1.3 | 20.0 |
| Nitrobenzene-d5 | 0.293 | 0.284 | | -3.1 | 20.0 |
| 2-Fluorobiphenyl | 1.673 | 1.620 | | -3.2 | 20.0 |
| 2,4,6-Tribromophenol | 0.104 | 0.123 | | 18.3 | 20.0 |
| Terphenyl-d14 | 0.812 | 0.757 | | -6.8 | 20.0 |
| 1,4-Dioxane | 0.417 | 0.449 | | 7.7 | 20.0 |

All other compounds must meet a minimum RRF of 0.010.

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN091725\
Data File : BN037740.D
Acq On : 17 Sep 2025 11:25
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 2 Sample Multiplier: 1

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4

Quant Time: Sep 17 12:51:32 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN091125.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Sep 11 14:20:01 2025
Response via : Initial Calibration

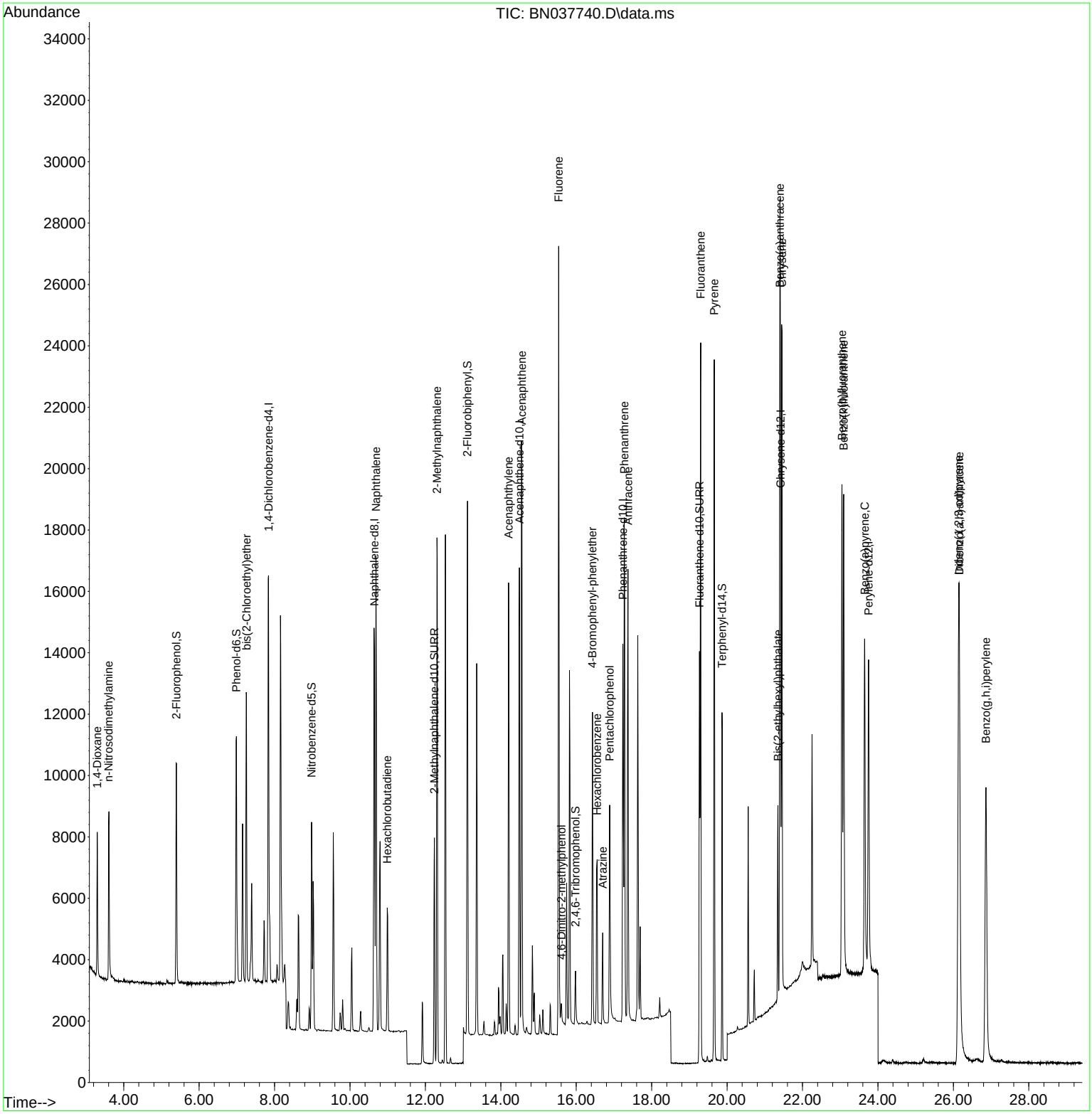
| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| Internal Standards | | | | | | | |
| 1) 1,4-Dichlorobenzene-d4 | 7.840 | 152 | 6660 | 0.400 | ng | | 0.00 |
| 7) Naphthalene-d8 | 10.648 | 136 | 18396 | 0.400 | ng | # | 0.00 |
| 13) Acenaphthene-d10 | 14.495 | 164 | 8930 | 0.400 | ng | | 0.00 |
| 19) Phenanthrene-d10 | 17.235 | 188 | 15814 | 0.400 | ng | | 0.00 |
| 29) Chrysene-d12 | 21.420 | 240 | 13841 | 0.400 | ng | | 0.00 |
| 35) Perylene-d12 | 23.753 | 264 | 14132 | 0.400 | ng | | 0.00 |
| System Monitoring Compounds | | | | | | | |
| 4) 2-Fluorophenol | 5.399 | 112 | 6167 | 0.403 | ng | | 0.00 |
| 5) Phenol-d6 | 6.988 | 99 | 7831 | 0.395 | ng | | 0.00 |
| 8) Nitrobenzene-d5 | 8.982 | 82 | 5219 | 0.388 | ng | | -0.01 |
| 11) 2-Methylnaphthalene-d10 | 12.238 | 152 | 9519 | 0.391 | ng | | 0.00 |
| 14) 2,4,6-Tribromophenol | 15.982 | 330 | 1095 | 0.470 | ng | | 0.00 |
| 15) 2-Fluorobiphenyl | 13.115 | 172 | 14468 | 0.387 | ng | | 0.00 |
| 27) Fluoranthene-d10 | 19.267 | 212 | 14803 | 0.373 | ng | | 0.00 |
| 31) Terphenyl-d14 | 19.866 | 244 | 10481 | 0.373 | ng | | 0.00 |
| Target Compounds | | | | | | | Qvalue |
| 2) 1,4-Dioxane | 3.297 | 88 | 2988 | 0.431 | ng | | 92 |
| 3) n-Nitrosodimethylamine | 3.601 | 42 | 3189 | 0.352 | ng | | 82 |
| 6) bis(2-Chloroethyl)ether | 7.255 | 93 | 7035 | 0.397 | ng | | 98 |
| 9) Naphthalene | 10.690 | 128 | 19558 | 0.389 | ng | | 100 |
| 10) Hexachlorobutadiene | 10.989 | 225 | 3461 | 0.380 | ng | # | 99 |
| 12) 2-Methylnaphthalene | 12.309 | 142 | 12157 | 0.391 | ng | | 99 |
| 16) Acenaphthylene | 14.206 | 152 | 15354 | 0.375 | ng | | 100 |
| 17) Acenaphthene | 14.559 | 154 | 10379 | 0.375 | ng | | 99 |
| 18) Fluorene | 15.535 | 166 | 12010 | 0.358 | ng | | 99 |
| 20) 4,6-Dinitro-2-methylph... | 15.609 | 198 | 512 | 0.350 | ng | | 83 |
| 21) 4-Bromophenyl-phenylether | 16.429 | 248 | 4071 | 0.395 | ng | # | 73 |
| 22) Hexachlorobenzene | 16.553 | 284 | 4849 | 0.409 | ng | | 96 |
| 23) Atrazine | 16.702 | 200 | 2432 | 0.371 | ng | | 99 |
| 24) Pentachlorophenol | 16.888 | 266 | 3857 | 1.120 | ng | | 97 |
| 25) Phenanthrene | 17.273 | 178 | 19056 | 0.383 | ng | | 100 |
| 26) Anthracene | 17.372 | 178 | 16581 | 0.376 | ng | | 100 |
| 28) Fluoranthene | 19.299 | 202 | 20777 | 0.381 | ng | | 99 |
| 30) Pyrene | 19.661 | 202 | 20869 | 0.385 | ng | | 100 |
| 32) Benzo(a)anthracene | 21.402 | 228 | 18615 | 0.386 | ng | | 99 |
| 33) Chrysene | 21.456 | 228 | 20188 | 0.390 | ng | | 100 |
| 34) Bis(2-ethylhexyl)phtha... | 21.349 | 149 | 6080 | 0.425 | ng | | 97 |
| 36) Indeno(1,2,3-cd)pyrene | 26.139 | 276 | 23556 | 0.397 | ng | | 98 |
| 37) Benzo(b)fluoranthene | 23.046 | 252 | 21437 | 0.385 | ng | | 99 |
| 38) Benzo(k)fluoranthene | 23.092 | 252 | 21654 | 0.382 | ng | | 100 |
| 39) Benzo(a)pyrene | 23.648 | 252 | 17359 | 0.390 | ng | | 98 |
| 40) Dibenzo(a,h)anthracene | 26.159 | 278 | 18747 | 0.395 | ng | | 97 |
| 41) Benzo(g,h,i)perylene | 26.864 | 276 | 21072 | 0.396 | ng | | 97 |

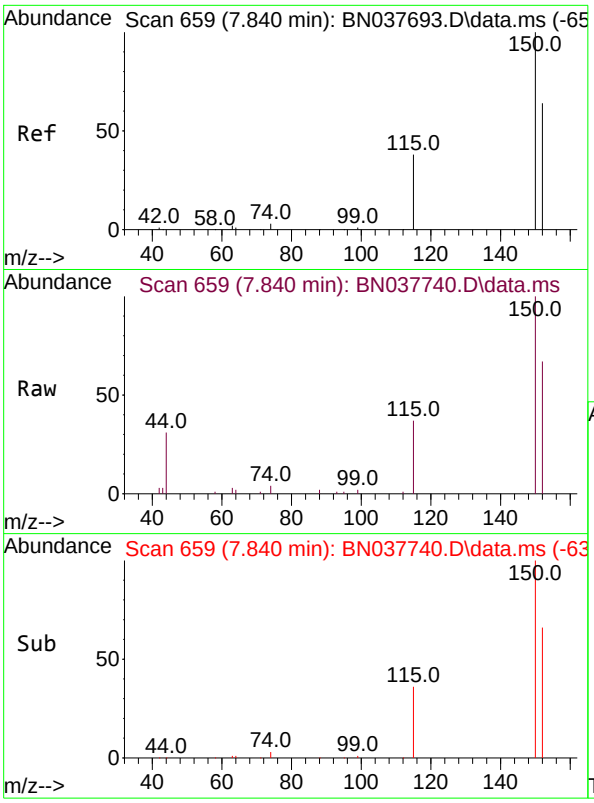
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN091725\
Data File : BN037740.D
Acq On : 17 Sep 2025 11:25
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 2 Sample Multiplier: 1

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4

Quant Time: Sep 17 12:51:32 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN091125.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Sep 11 14:20:01 2025
Response via : Initial Calibration



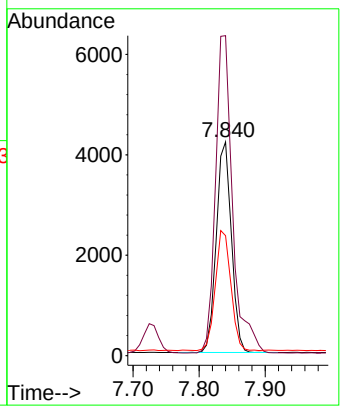


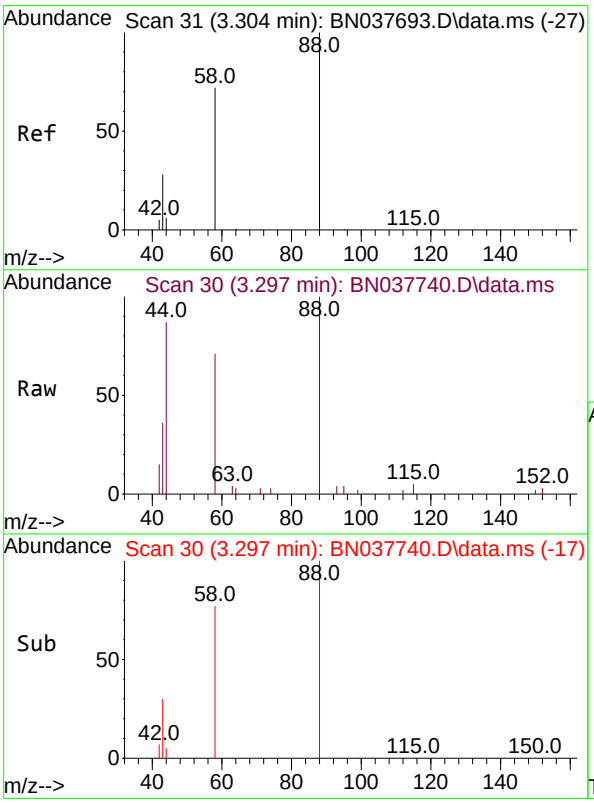

#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.840 min Scan# 6
Delta R.T. -0.000 min
Lab File: BN037740.D
Acq: 17 Sep 2025 11:25

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4

Tgt Ion:152 Resp: 6660

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 150 | 149.7 | 124.5 | 186.7 |
| 115 | 56.1 | 49.2 | 73.8 |

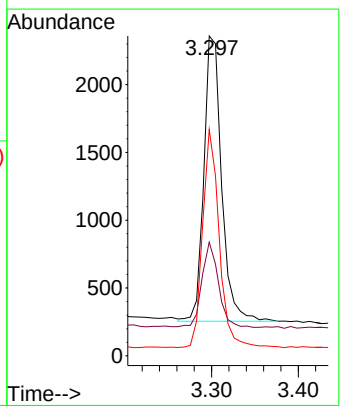


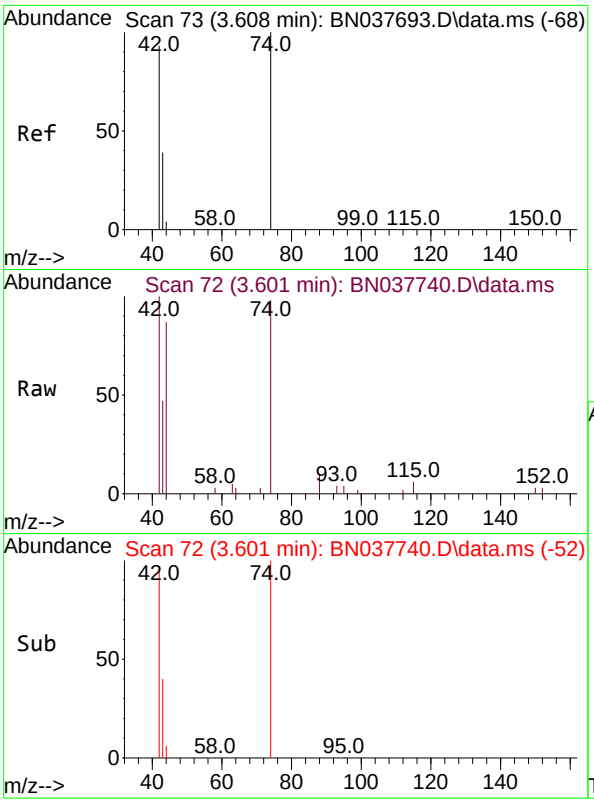




#2
1,4-Dioxane
Concen: 0.431 ng
RT: 3.297 min Scan# 30
Delta R.T. -0.007 min
Lab File: BN037740.D
Acq: 17 Sep 2025 11:25

Tgt Ion: 88 Resp: 2988

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 88 | 100 | | |
| 43 | 27.6 | 26.8 | 40.2 |
| 58 | 71.1 | 61.9 | 92.9 |



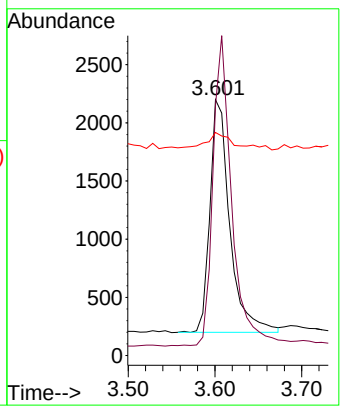


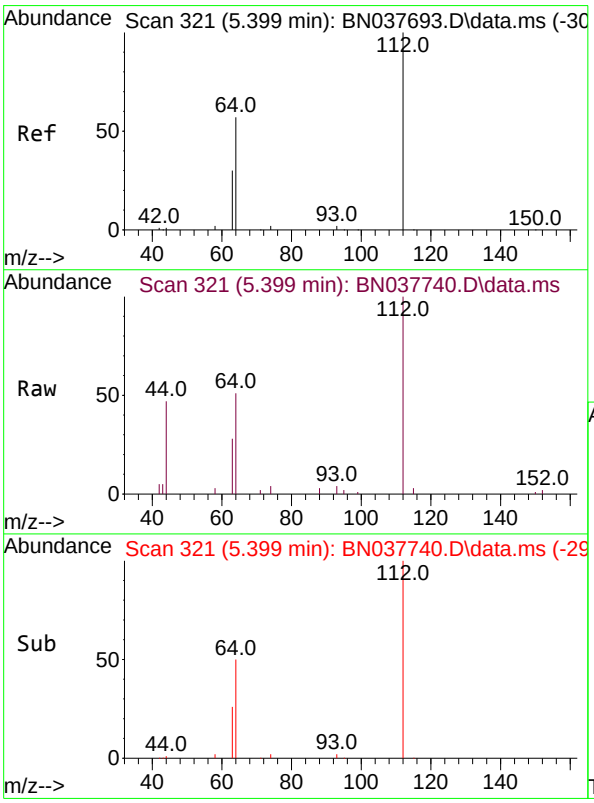

#3
n-Nitrosodimethylamine
Concen: 0.352 ng
RT: 3.601 min Scan# 7
Delta R.T. -0.007 min
Lab File: BN037740.D
Acq: 17 Sep 2025 11:25

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4

Tgt Ion: 42 Resp: 3189

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 42 | 100 | | |
| 74 | 127.7 | 86.0 | 129.0 |
| 44 | 8.5 | 8.4 | 12.6 |

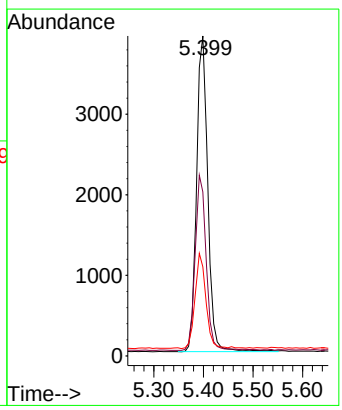


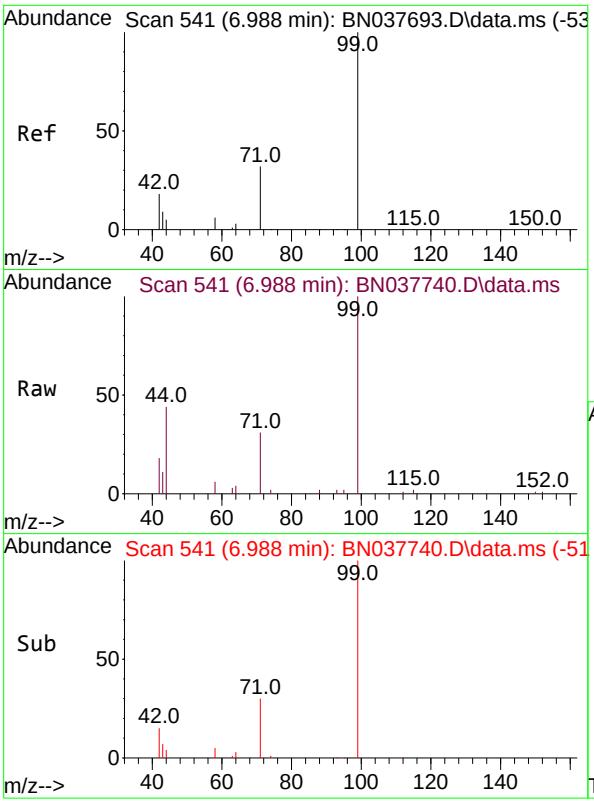




#4
2-Fluorophenol
Concen: 0.403 ng
RT: 5.399 min Scan# 321
Delta R.T. -0.000 min
Lab File: BN037740.D
Acq: 17 Sep 2025 11:25

Tgt Ion:112 Resp: 6167

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 112 | 100 | | |
| 64 | 54.3 | 44.9 | 67.3 |
| 63 | 28.9 | 24.7 | 37.1 |



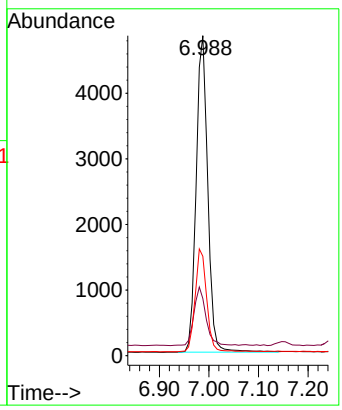


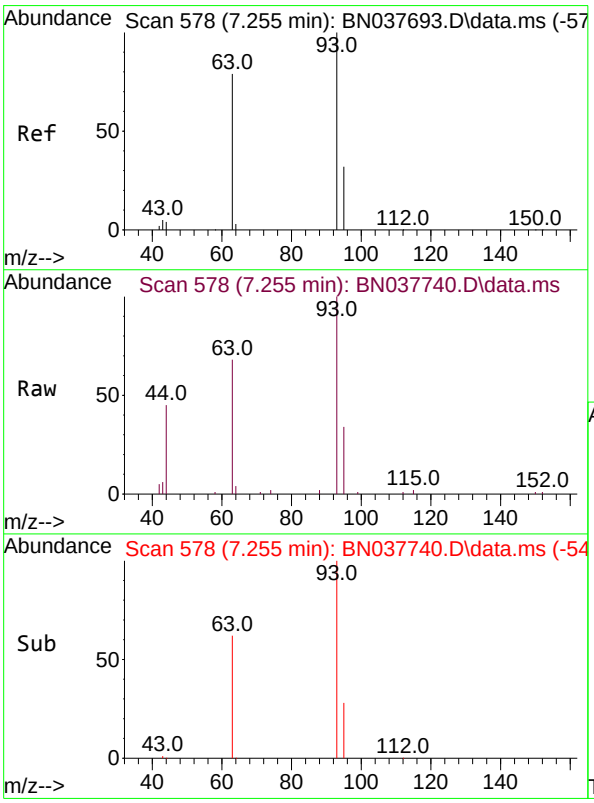

#5
Phenol-d6
Concen: 0.395 ng
RT: 6.988 min Scan# 54
Delta R.T. -0.000 min
Lab File: BN037740.D
Acq: 17 Sep 2025 11:25

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4

Tgt Ion: 99 Resp: 7831

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 99 | 100 | | |
| 42 | 19.1 | 16.6 | 24.8 |
| 71 | 32.2 | 26.7 | 40.1 |

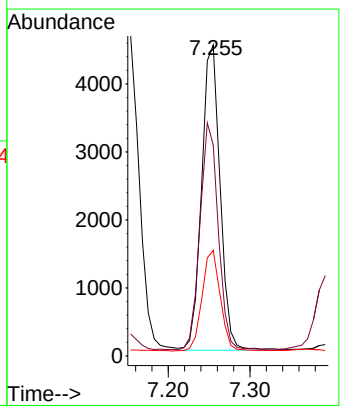


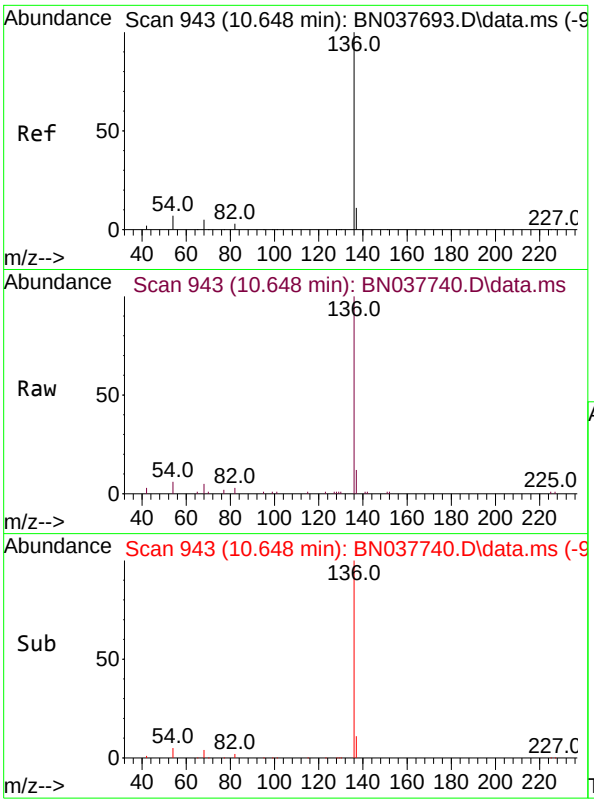




#6
bis(2-Chloroethyl)ether
Concen: 0.397 ng
RT: 7.255 min Scan# 578
Delta R.T. -0.000 min
Lab File: BN037740.D
Acq: 17 Sep 2025 11:25

Tgt Ion: 93 Resp: 7035

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 93 | 100 | | |
| 63 | 73.0 | 60.6 | 90.8 |
| 95 | 32.6 | 26.0 | 39.0 |



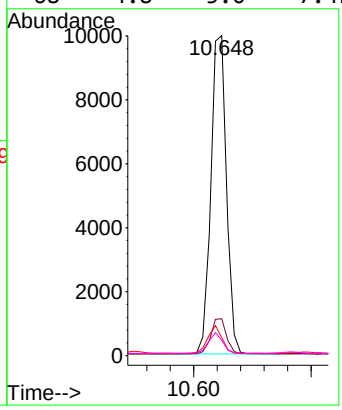


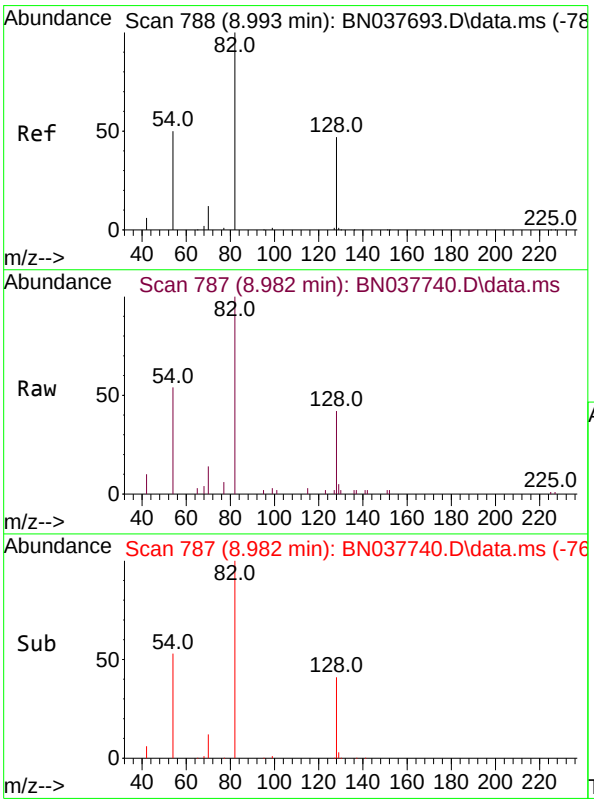

#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.648 min Scan# 94
Delta R.T. -0.000 min
Lab File: BN037740.D
Acq: 17 Sep 2025 11:25

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4

Tgt Ion:136 Resp: 18396

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 136 | 100 | | |
| 137 | 11.5 | 9.1 | 13.7 |
| 54 | 5.6 | 6.3 | 9.5# |
| 68 | 4.8 | 5.0 | 7.4# |

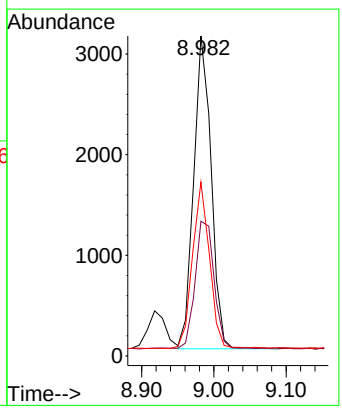


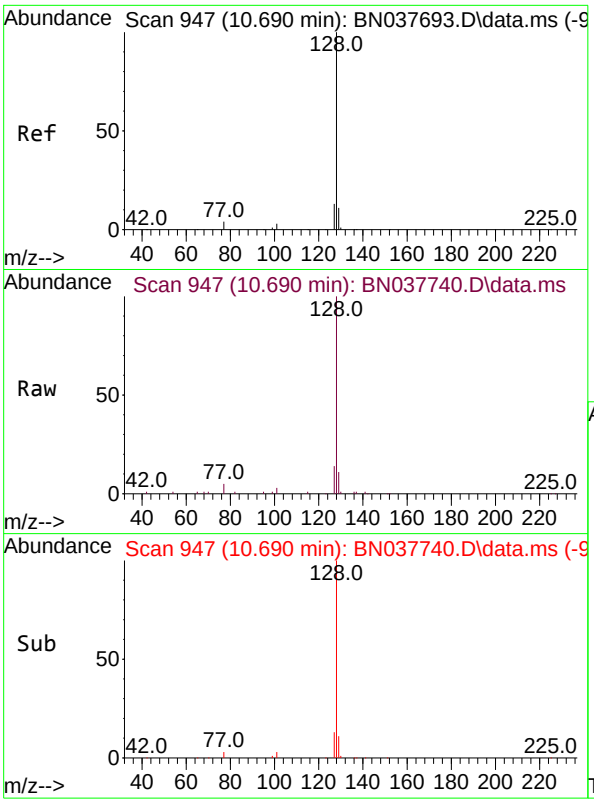




#8
Nitrobenzene-d5
Concen: 0.388 ng
RT: 8.982 min Scan# 787
Delta R.T. -0.011 min
Lab File: BN037740.D
Acq: 17 Sep 2025 11:25

Tgt Ion: 82 Resp: 5219

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 82 | 100 | | |
| 128 | 42.1 | 38.3 | 57.5 |
| 54 | 54.3 | 41.4 | 62.2 |



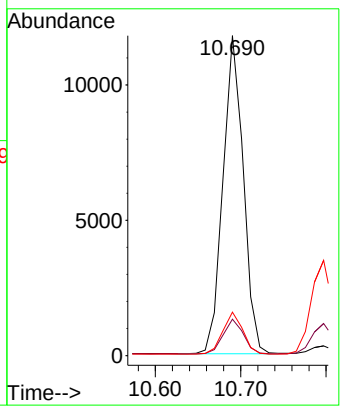


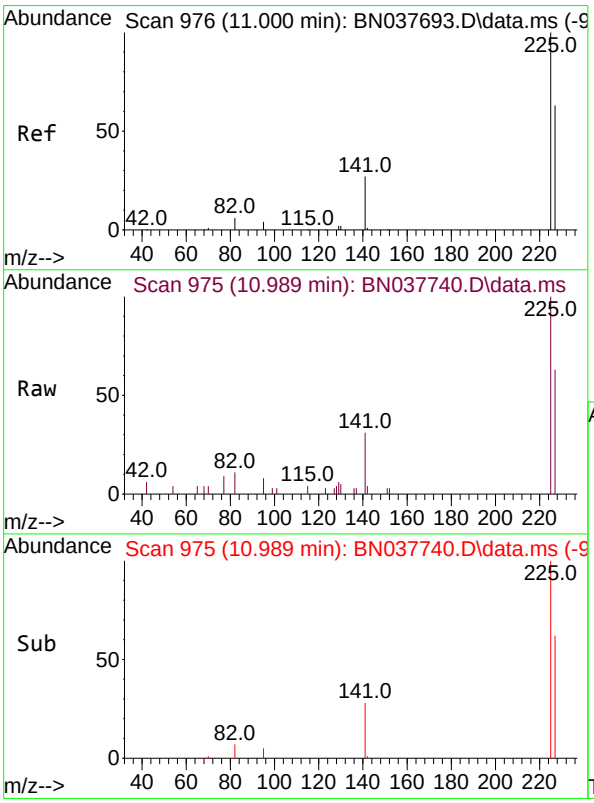

#9
Naphthalene
Concen: 0.389 ng
RT: 10.690 min Scan# 94
Delta R.T. -0.000 min
Lab File: BN037740.D
Acq: 17 Sep 2025 11:25

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4

Tgt Ion:128 Resp: 19558

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 128 | 100 | | |
| 129 | 11.4 | 9.1 | 13.7 |
| 127 | 13.6 | 10.9 | 16.3 |

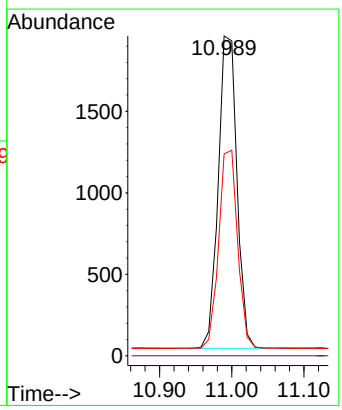


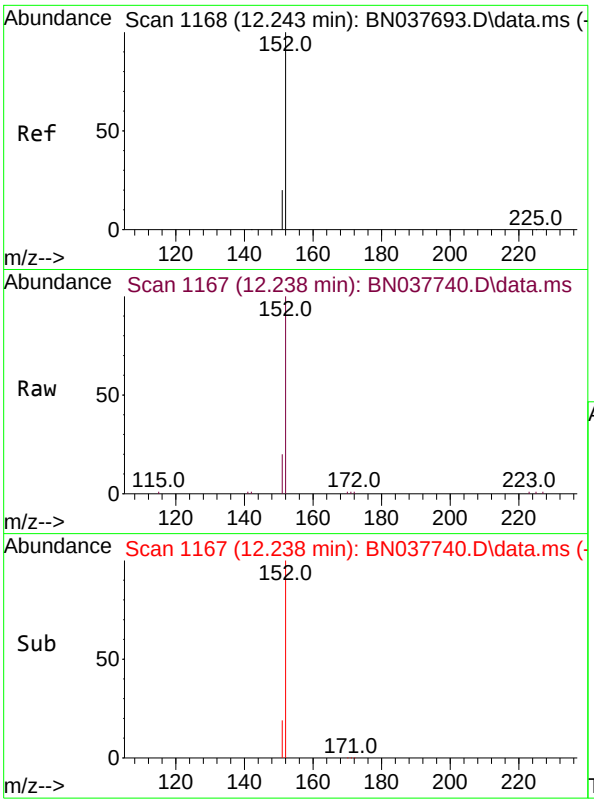




#10
Hexachlorobutadiene
Concen: 0.380 ng
RT: 10.989 min Scan# 975
Delta R.T. -0.011 min
Lab File: BN037740.D
Acq: 17 Sep 2025 11:25

Tgt Ion:225 Resp: 3461

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 225 | 100 | | |
| 223 | 0.0 | 0.0 | 0.0 |
| 227 | 64.1 | 50.9 | 76.3 |



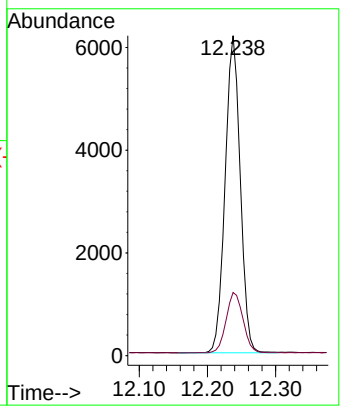


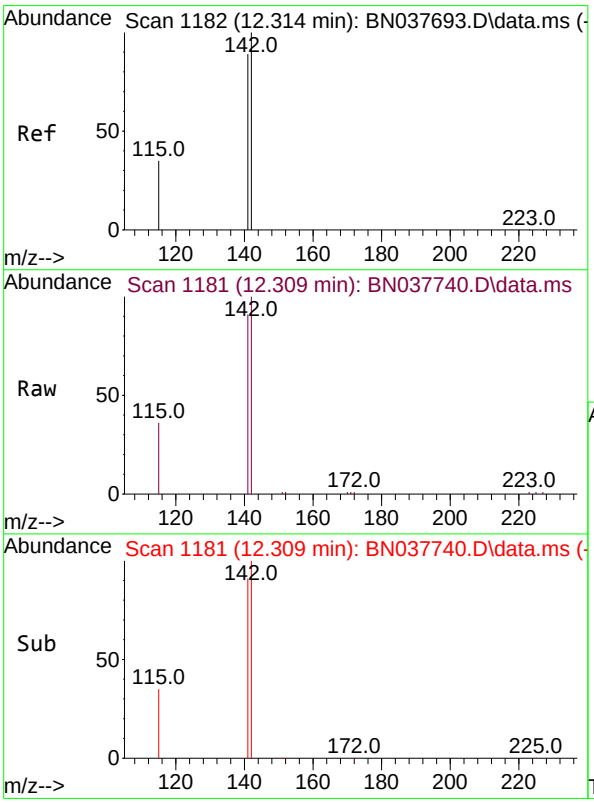

#11
2-Methylnaphthalene-d10
Concen: 0.391 ng
RT: 12.238 min Scan# 11
Delta R.T. -0.005 min
Lab File: BN037740.D
Acq: 17 Sep 2025 11:25

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4

Tgt Ion:152 Resp: 9519

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

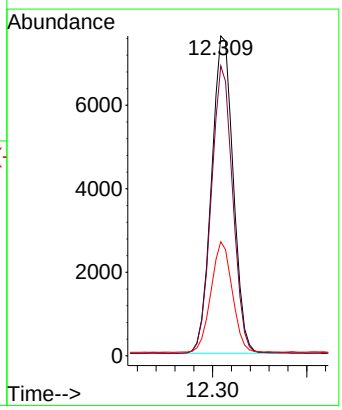


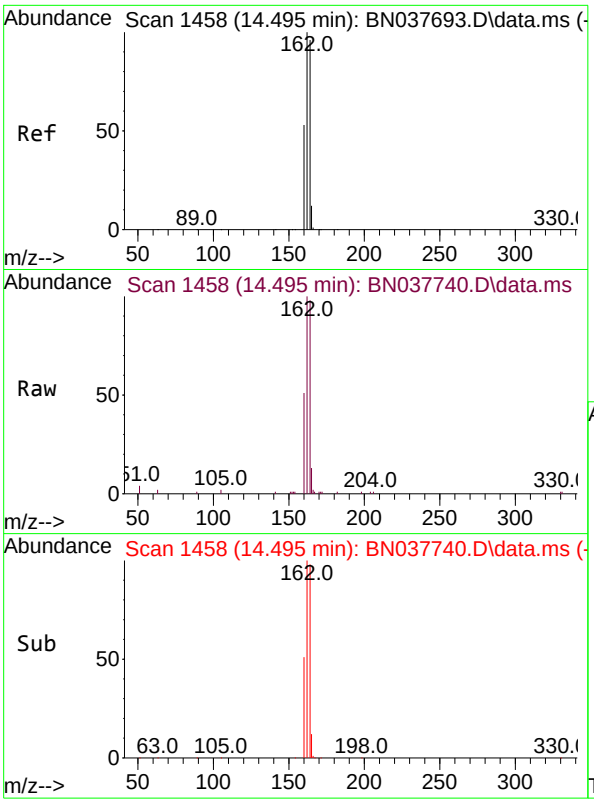




#12
2-Methylnaphthalene
Concen: 0.391 ng
RT: 12.309 min Scan# 1181
Delta R.T. -0.005 min
Lab File: BN037740.D
Acq: 17 Sep 2025 11:25

Tgt Ion:142 Resp: 12157

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 142 | 100 | | |
| 141 | 90.6 | 71.6 | 107.4 |
| 115 | 35.7 | 28.6 | 43.0 |



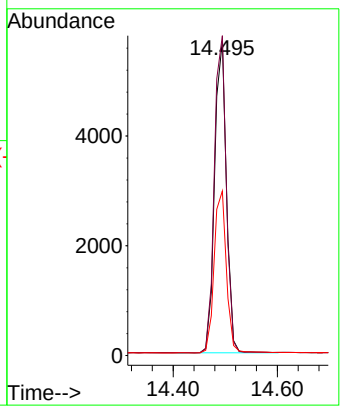


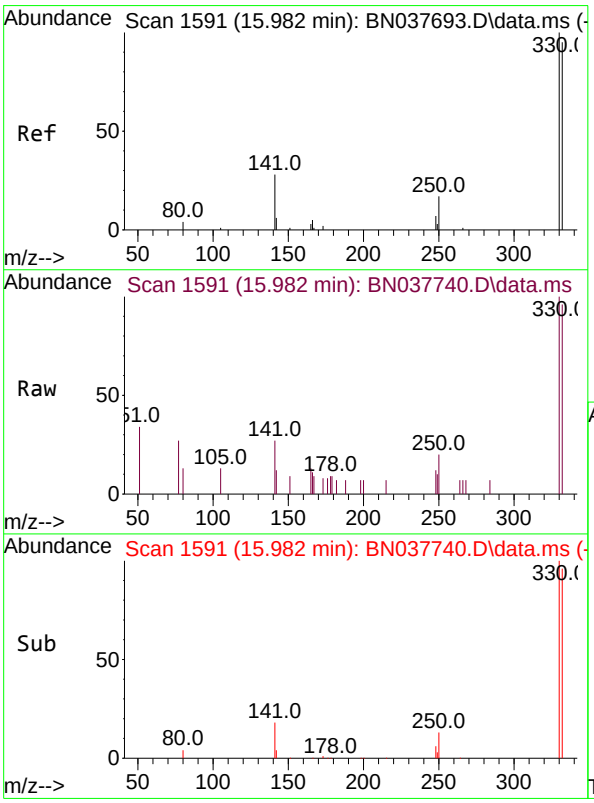

#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.495 min Scan# 14
Delta R.T. -0.000 min
Lab File: BN037740.D
Acq: 17 Sep 2025 11:25

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4

Tgt Ion:164 Resp: 8930

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 164 | 100 | | |
| 162 | 101.8 | 83.1 | 124.7 |
| 160 | 52.3 | 44.3 | 66.5 |

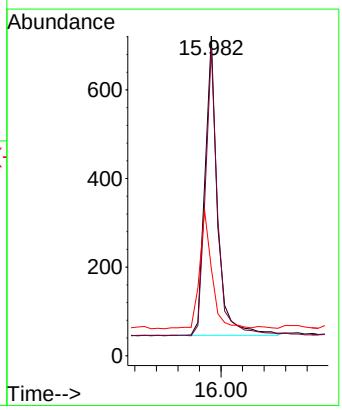


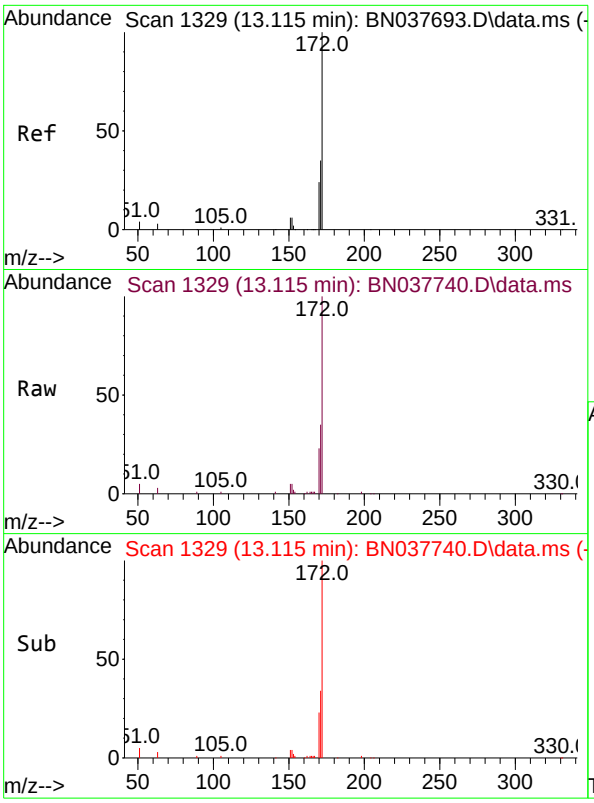




#14
2,4,6-Tribromophenol
Concen: 0.470 ng
RT: 15.982 min Scan# 1591
Delta R.T. -0.000 min
Lab File: BN037740.D
Acq: 17 Sep 2025 11:25

Tgt Ion:330 Resp: 1095

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 330 | 100 | | |
| 332 | 96.0 | 75.3 | 112.9 |
| 141 | 39.1 | 35.0 | 52.4 |



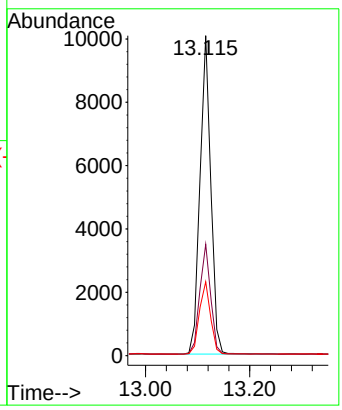


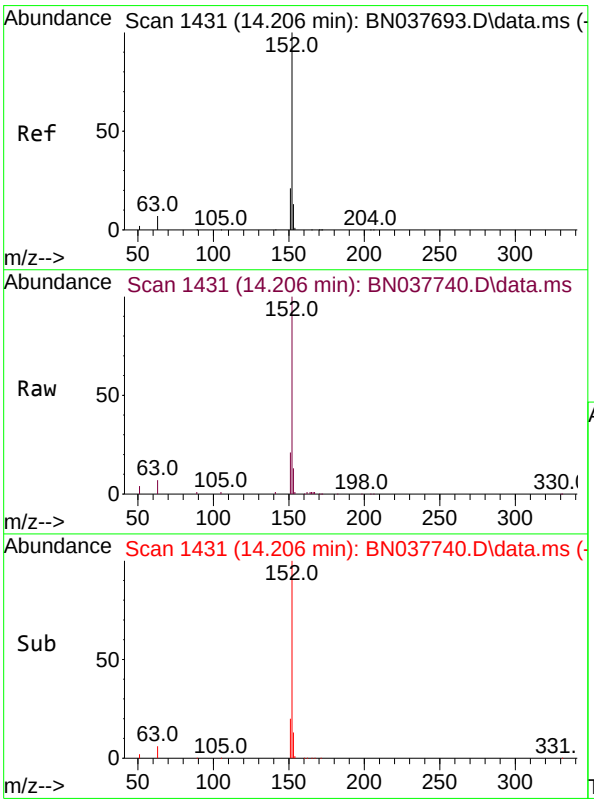

#15
2-Fluorobiphenyl
Concen: 0.387 ng
RT: 13.115 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN037740.D
Acq: 17 Sep 2025 11:25

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4

Tgt Ion:172 Resp: 14468

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 172 | 100 | | |
| 171 | 34.8 | 28.6 | 43.0 |
| 170 | 23.1 | 19.8 | 29.8 |

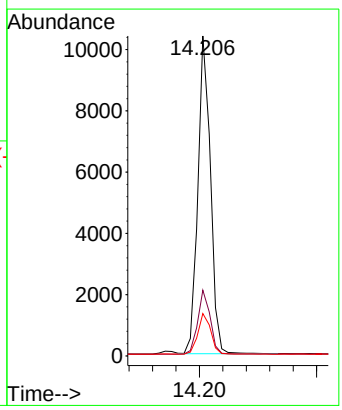


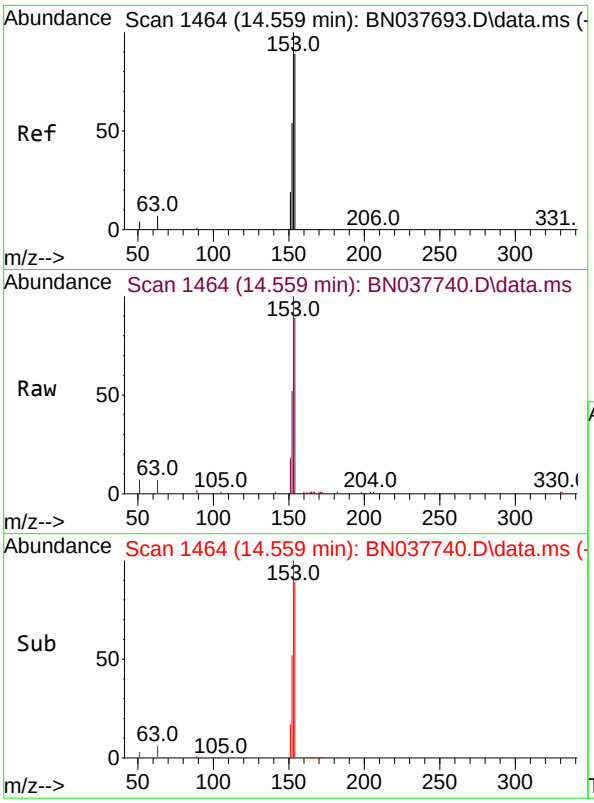




#16
Acenaphthylene
Concen: 0.375 ng
RT: 14.206 min Scan# 1431
Delta R.T. -0.000 min
Lab File: BN037740.D
Acq: 17 Sep 2025 11:25

Tgt Ion:152 Resp: 15354

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 151 | 20.1 | 16.2 | 24.2 |
| 153 | 12.9 | 10.4 | 15.6 |



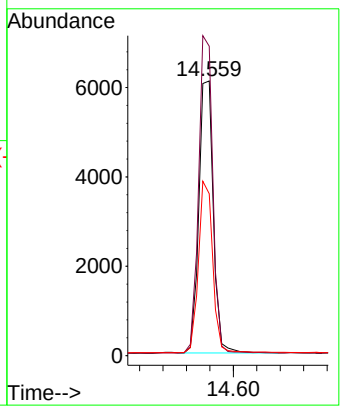


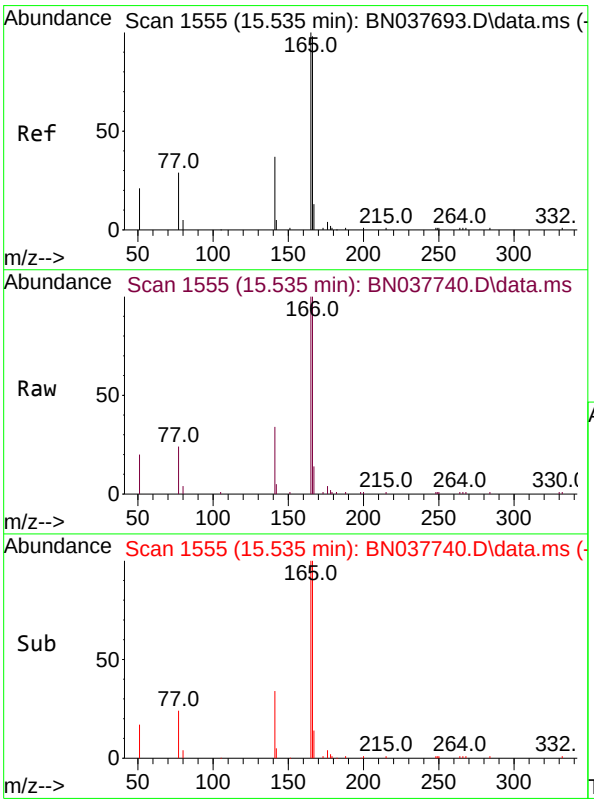

#17
Acenaphthene
Concen: 0.375 ng
RT: 14.559 min Scan# 14
Delta R.T. -0.000 min
Lab File: BN037740.D
Acq: 17 Sep 2025 11:25

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4

Tgt Ion:154 Resp: 10379

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 154 | 100 | | |
| 153 | 114.4 | 89.8 | 134.8 |
| 152 | 62.3 | 50.2 | 75.2 |

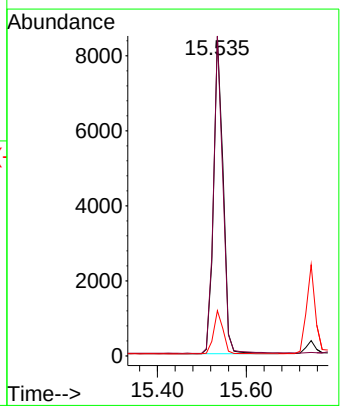


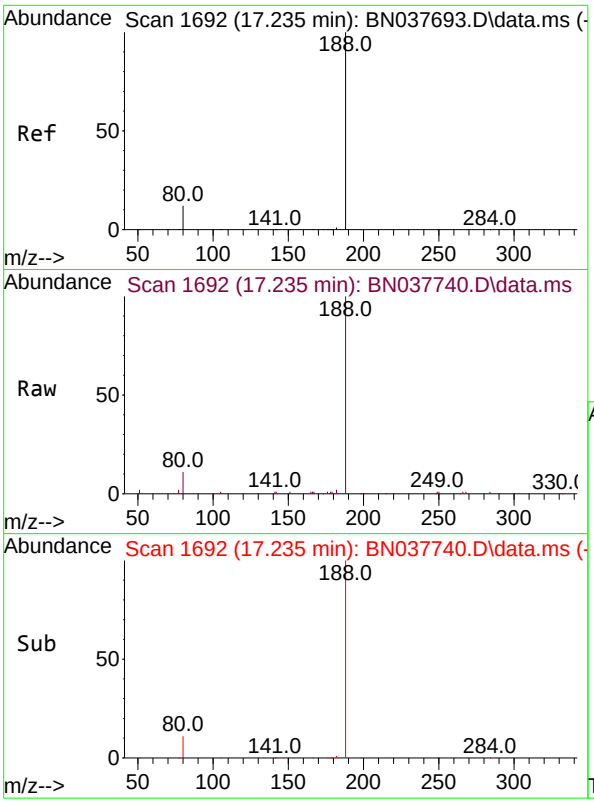




#18
Fluorene
Concen: 0.358 ng
RT: 15.535 min Scan# 1555
Delta R.T. -0.000 min
Lab File: BN037740.D
Acq: 17 Sep 2025 11:25

Tgt Ion:166 Resp: 12010

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 166 | 100 | | |
| 165 | 100.0 | 79.6 | 119.4 |
| 167 | 13.8 | 10.6 | 16.0 |



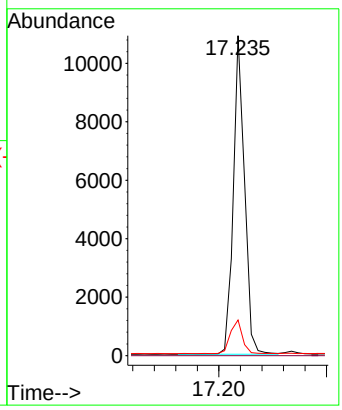


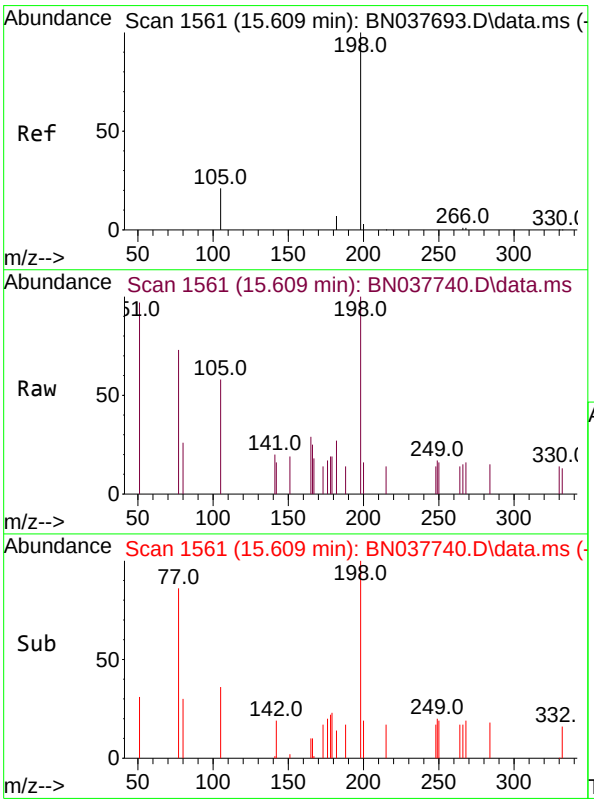

#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.235 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN037740.D
Acq: 17 Sep 2025 11:25

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4

Tgt Ion:188 Resp: 15814

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 188 | 100 | | |
| 94 | 0.0 | 0.0 | 0.0 |
| 80 | 11.1 | 10.6 | 15.8 |

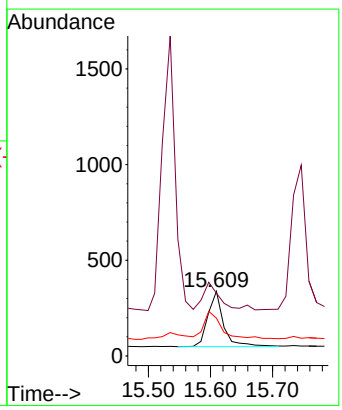


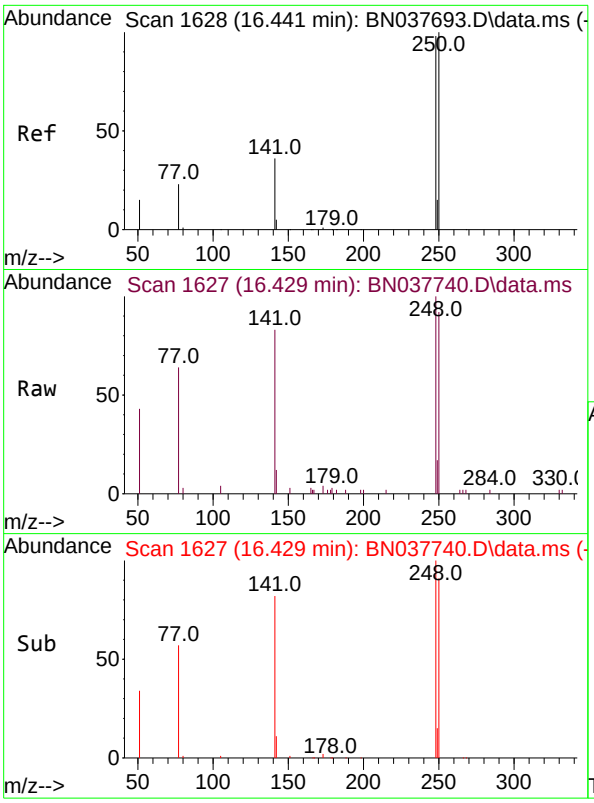




#20
4,6-Dinitro-2-methylphenol
Concen: 0.350 ng
RT: 15.609 min Scan# 1561
Delta R.T. 0.000 min
Lab File: BN037740.D
Acq: 17 Sep 2025 11:25

Tgt Ion:198 Resp: 512

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 198 | 100 | | |
| 51 | 97.0 | 95.1 | 142.7 |
| 105 | 58.3 | 53.8 | 80.6 |



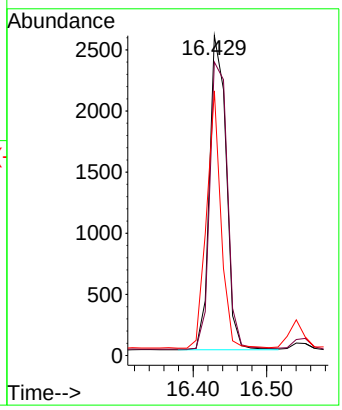


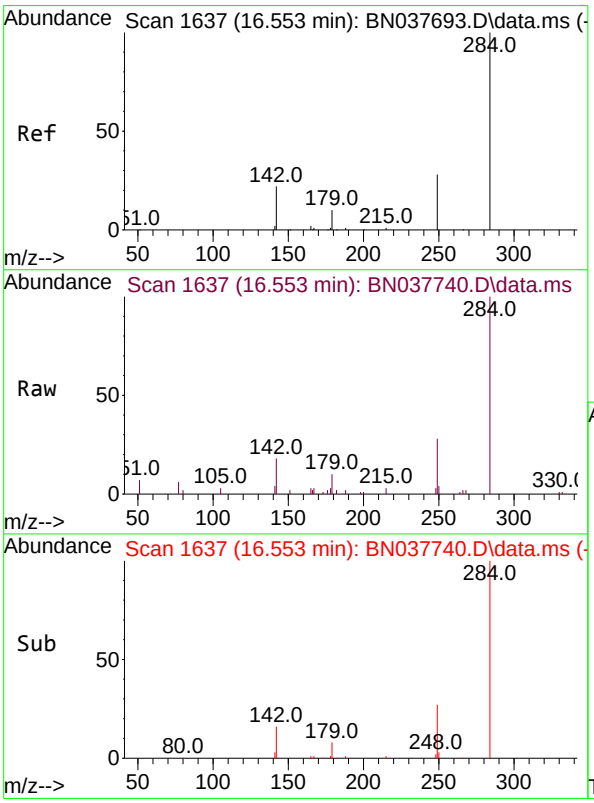

#21
4-Bromophenyl-phenylether
Concen: 0.395 ng
RT: 16.429 min Scan# 1
Delta R.T. -0.012 min
Lab File: BN037740.D
Acq: 17 Sep 2025 11:25

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4

Tgt Ion:248 Resp: 4071

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 248 | 100 | | |
| 250 | 91.7 | 81.5 | 122.3 |
| 141 | 82.7 | 30.8 | 46.2# |

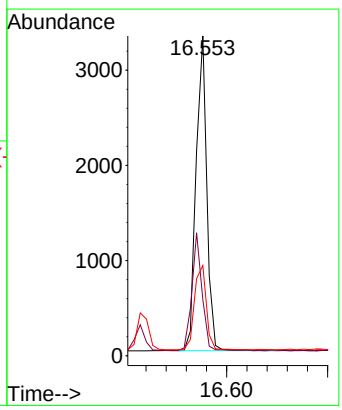


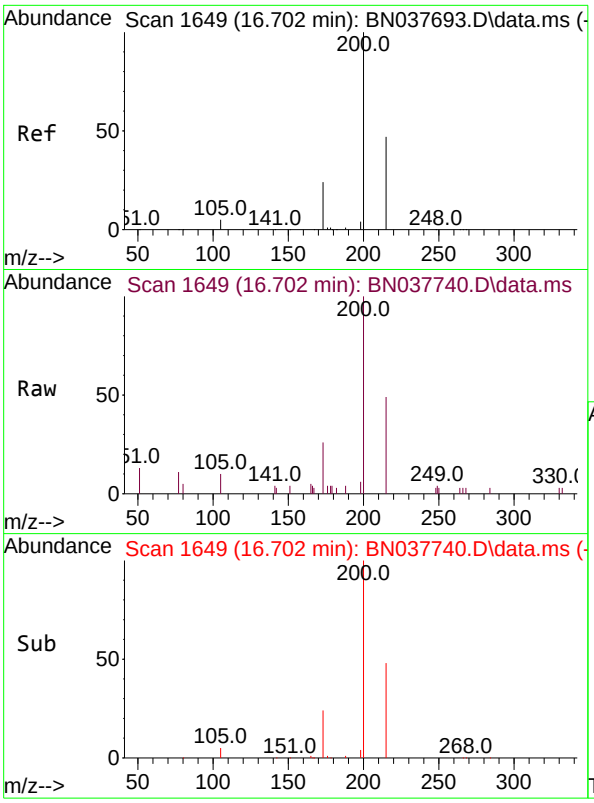




#22
Hexachlorobenzene
Concen: 0.409 ng
RT: 16.553 min Scan# 1637
Delta R.T. -0.000 min
Lab File: BN037740.D
Acq: 17 Sep 2025 11:25

Tgt Ion:284 Resp: 4849

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 284 | 100 | | |
| 142 | 35.8 | 30.9 | 46.3 |
| 249 | 29.7 | 24.8 | 37.2 |



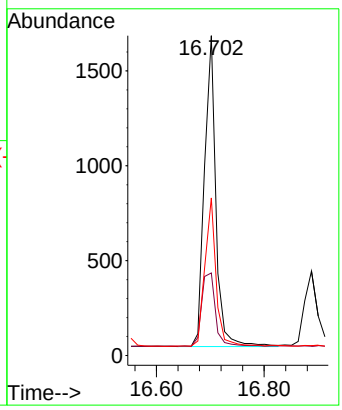


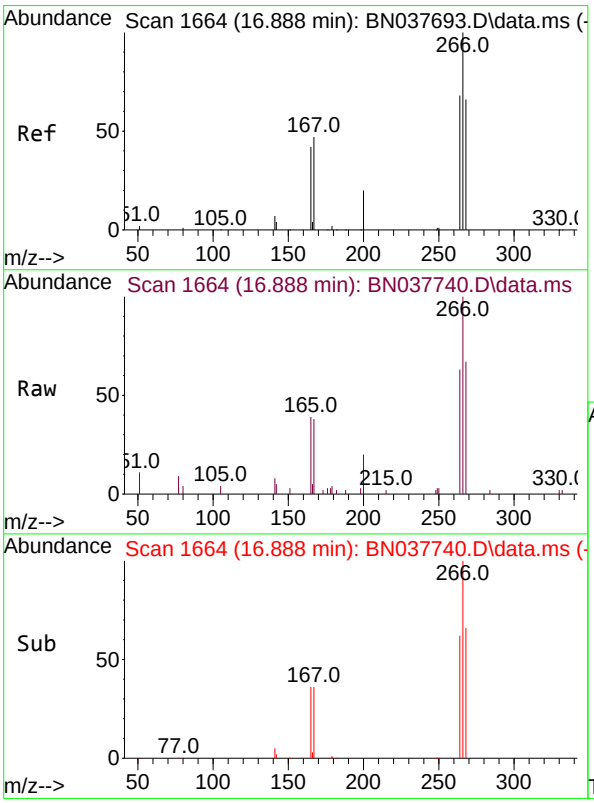

#23
Atrazine
Concen: 0.371 ng
RT: 16.702 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN037740.D
Acq: 17 Sep 2025 11:25

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4

Tgt Ion:200 Resp: 2432

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 200 | 100 | | |
| 173 | 25.8 | 21.4 | 32.2 |
| 215 | 49.3 | 39.2 | 58.8 |

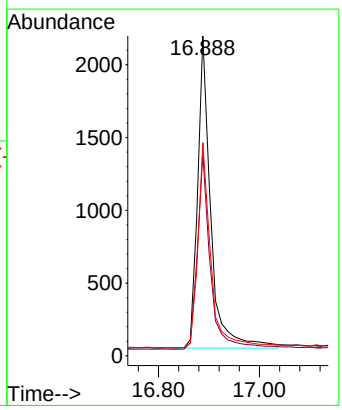


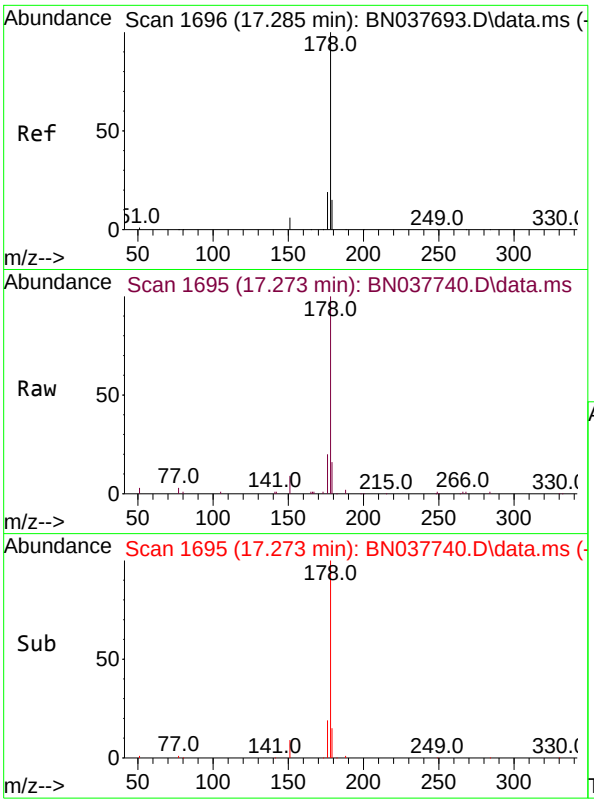




#24
Pentachlorophenol
Concen: 1.120 ng
RT: 16.888 min Scan# 1664
Delta R.T. -0.000 min
Lab File: BN037740.D
Acq: 17 Sep 2025 11:25

Tgt Ion:266 Resp: 3857

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 266 | 100 | | |
| 264 | 62.0 | 51.6 | 77.4 |
| 268 | 64.9 | 53.2 | 79.8 |



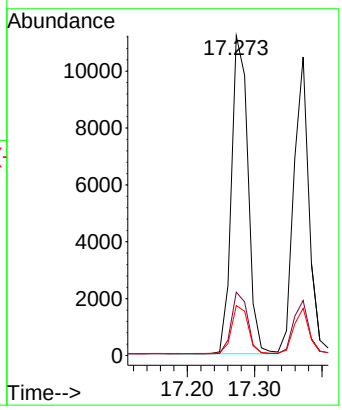


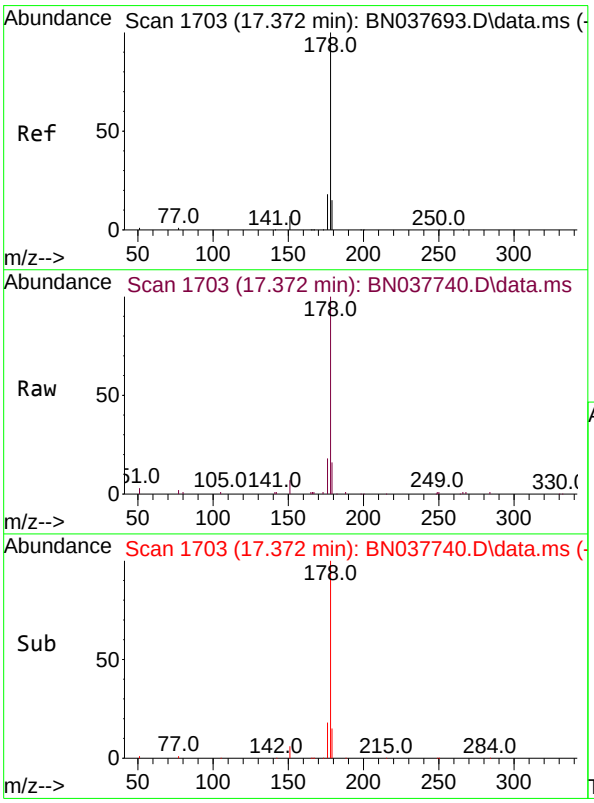

#25
Phenanthrene
Concen: 0.383 ng
RT: 17.273 min Scan# 1
Delta R.T. -0.012 min
Lab File: BN037740.D
Acq: 17 Sep 2025 11:25

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4

Tgt Ion:178 Resp: 19056

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 178 | 100 | | |
| 176 | 19.1 | 15.3 | 22.9 |
| 179 | 15.3 | 12.2 | 18.2 |

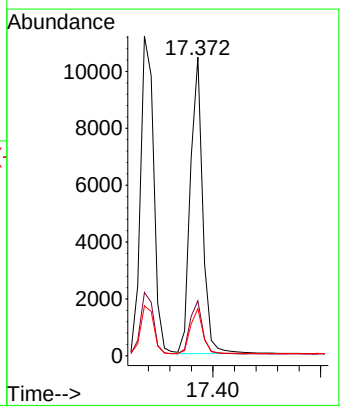


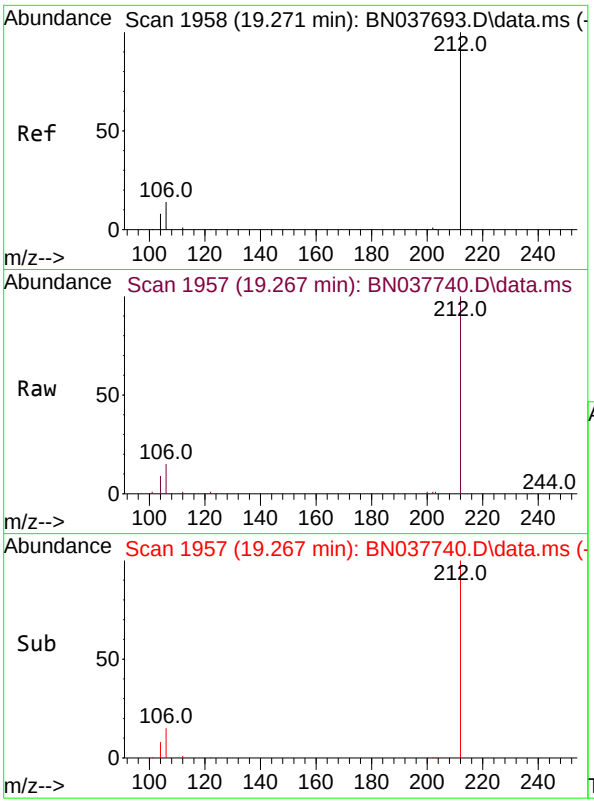




#26
Anthracene
Concen: 0.376 ng
RT: 17.372 min Scan# 1703
Delta R.T. -0.000 min
Lab File: BN037740.D
Acq: 17 Sep 2025 11:25

Tgt Ion:178 Resp: 16581

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 178 | 100 | | |
| 176 | 18.3 | 14.6 | 22.0 |
| 179 | 15.3 | 12.2 | 18.4 |



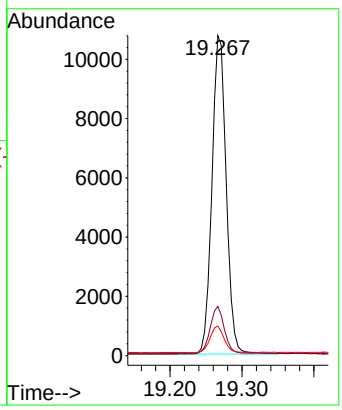


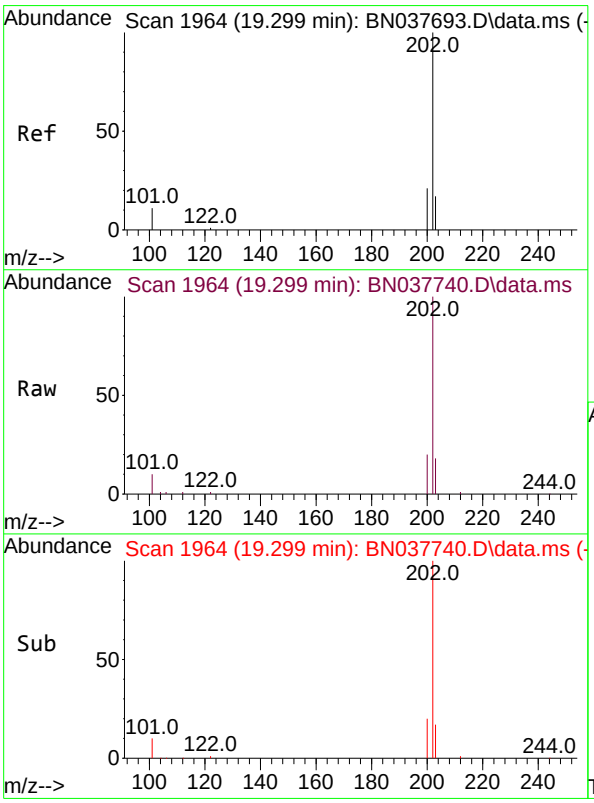

#27
Fluoranthene-d10
Concen: 0.373 ng
RT: 19.267 min Scan# 19
Delta R.T. -0.005 min
Lab File: BN037740.D
Acq: 17 Sep 2025 11:25

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4

Tgt Ion:212 Resp: 14803

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 212 | 100 | | |
| 106 | 14.4 | 12.2 | 18.2 |
| 104 | 8.3 | 6.9 | 10.3 |

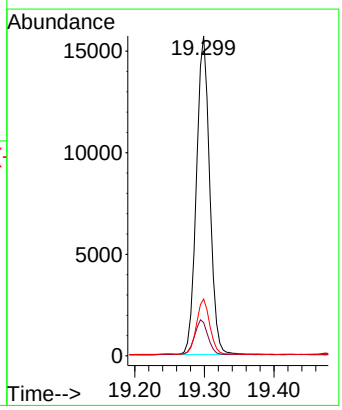


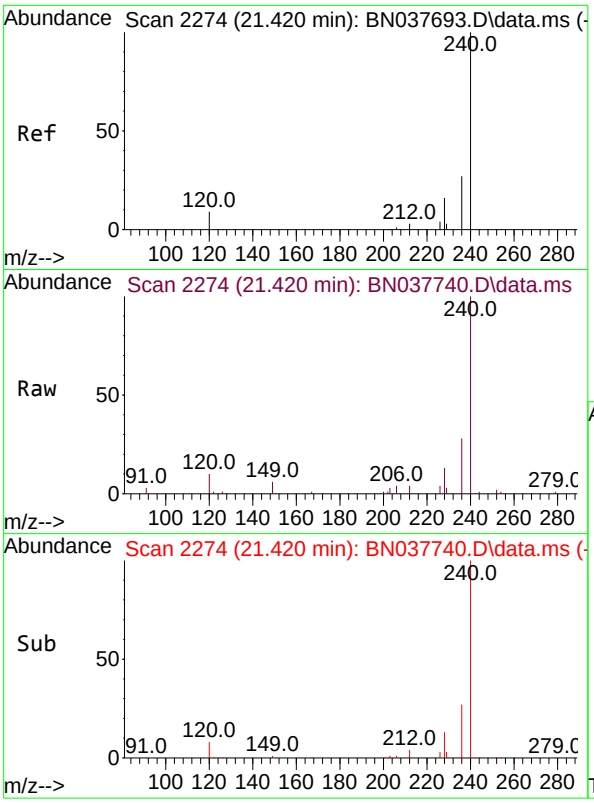




#28
Fluoranthene
Concen: 0.381 ng
RT: 19.299 min Scan# 1964
Delta R.T. -0.000 min
Lab File: BN037740.D
Acq: 17 Sep 2025 11:25

Tgt Ion:202 Resp: 20777

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 202 | 100 | | |
| 101 | 11.1 | 9.3 | 13.9 |
| 203 | 17.2 | 13.7 | 20.5 |



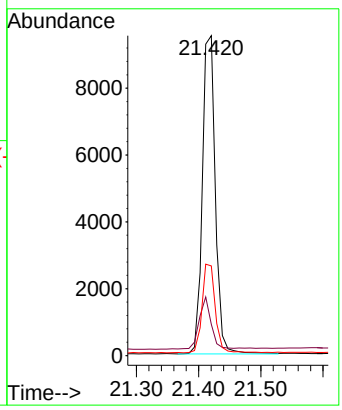


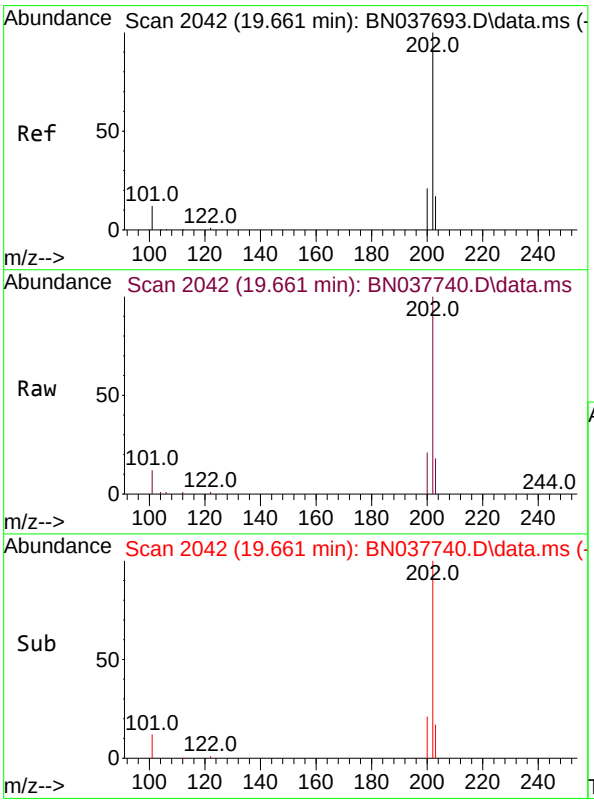

#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.420 min Scan# 2
Delta R.T. -0.000 min
Lab File: BN037740.D
Acq: 17 Sep 2025 11:25

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4

Tgt Ion:240 Resp: 13841

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 240 | 100 | | |
| 120 | 9.8 | 9.2 | 13.8 |
| 236 | 28.0 | 22.6 | 33.8 |

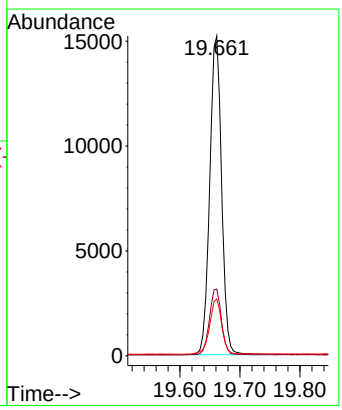


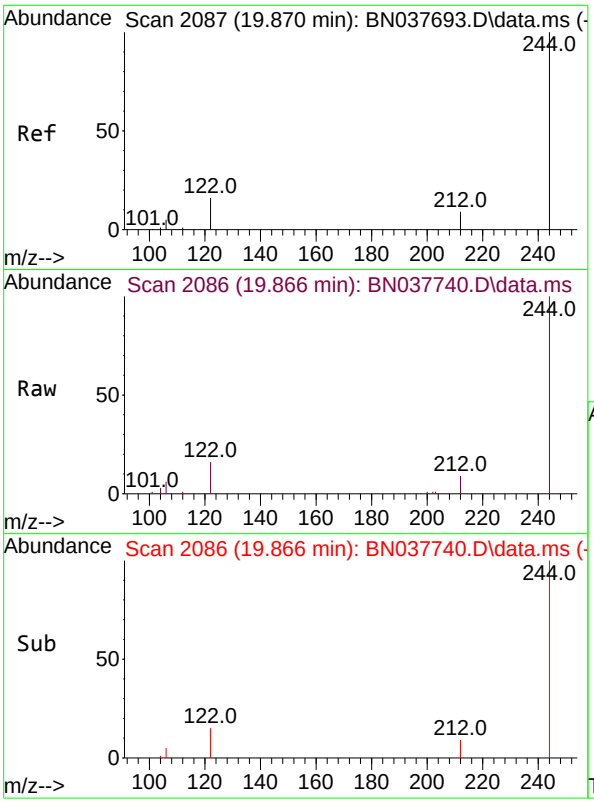




#30
Pyrene
Concen: 0.385 ng
RT: 19.661 min Scan# 2042
Delta R.T. -0.000 min
Lab File: BN037740.D
Acq: 17 Sep 2025 11:25

Tgt Ion:202 Resp: 20869

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 202 | 100 | | |
| 200 | 20.9 | 16.8 | 25.2 |
| 203 | 17.8 | 14.3 | 21.5 |



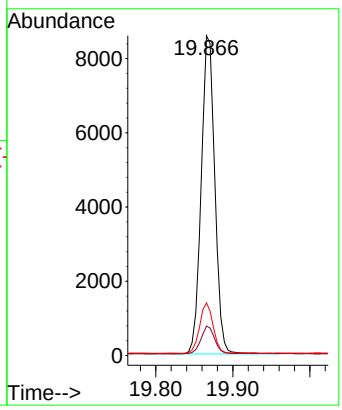


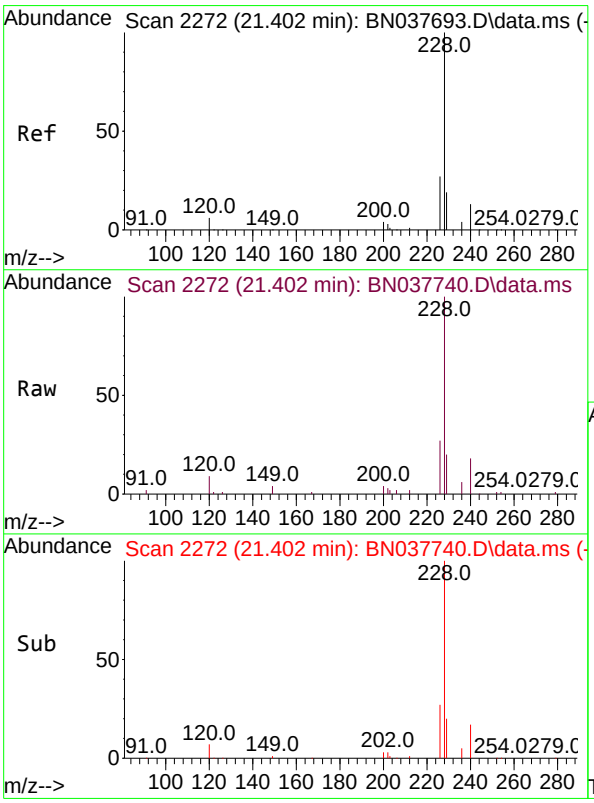

#31
Terphenyl-d14
Concen: 0.373 ng
RT: 19.866 min Scan# 20
Delta R.T. -0.005 min
Lab File: BN037740.D
Acq: 17 Sep 2025 11:25

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4

Tgt Ion:244 Resp: 10481

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 244 | 100 | | |
| 212 | 9.2 | 7.5 | 11.3 |
| 122 | 16.5 | 13.2 | 19.8 |

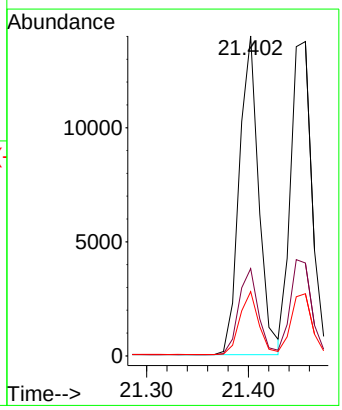


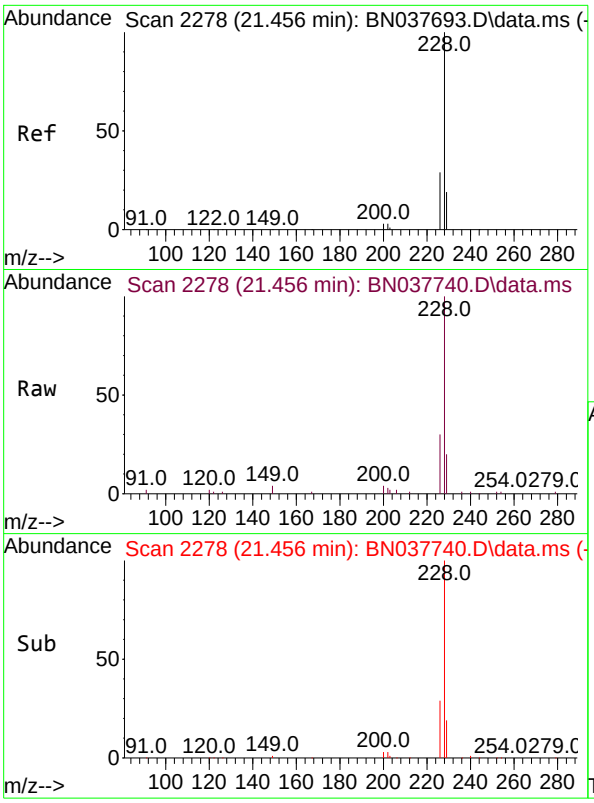




#32
Benzo(a)anthracene
Concen: 0.386 ng
RT: 21.402 min Scan# 2272
Delta R.T. -0.000 min
Lab File: BN037740.D
Acq: 17 Sep 2025 11:25

Tgt Ion:228 Resp: 18615

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 228 | 100 | | |
| 226 | 27.3 | 22.2 | 33.2 |
| 229 | 20.1 | 15.8 | 23.6 |



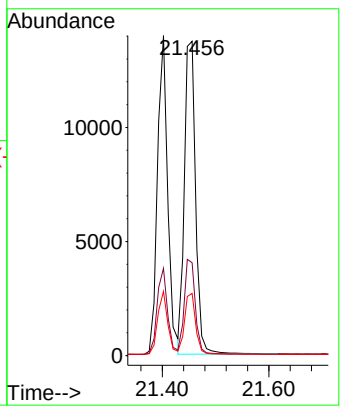


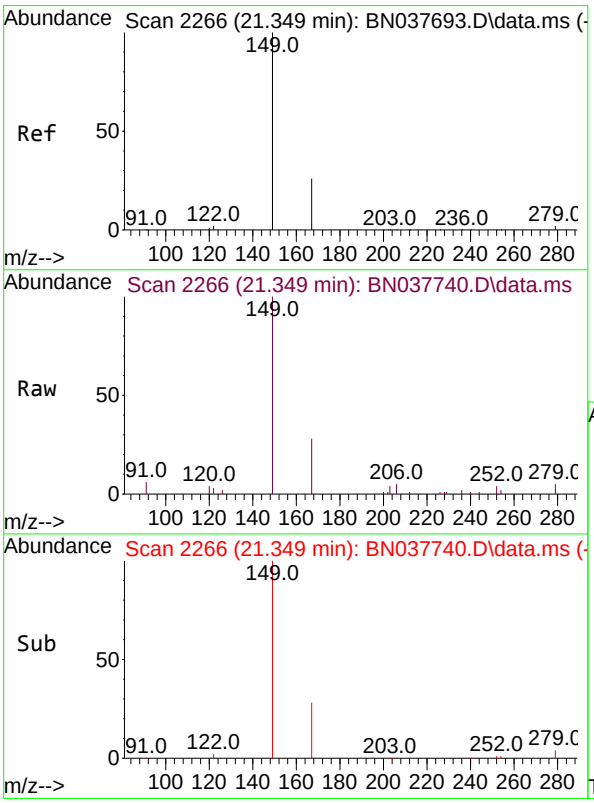

#33
Chrysene
Concen: 0.390 ng
RT: 21.456 min Scan# 2
Delta R.T. -0.000 min
Lab File: BN037740.D
Acq: 17 Sep 2025 11:25

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4

Tgt Ion:228 Resp: 20188

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 228 | 100 | | |
| 226 | 29.5 | 23.5 | 35.3 |
| 229 | 19.8 | 15.9 | 23.9 |

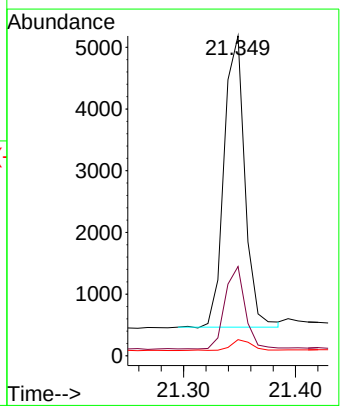


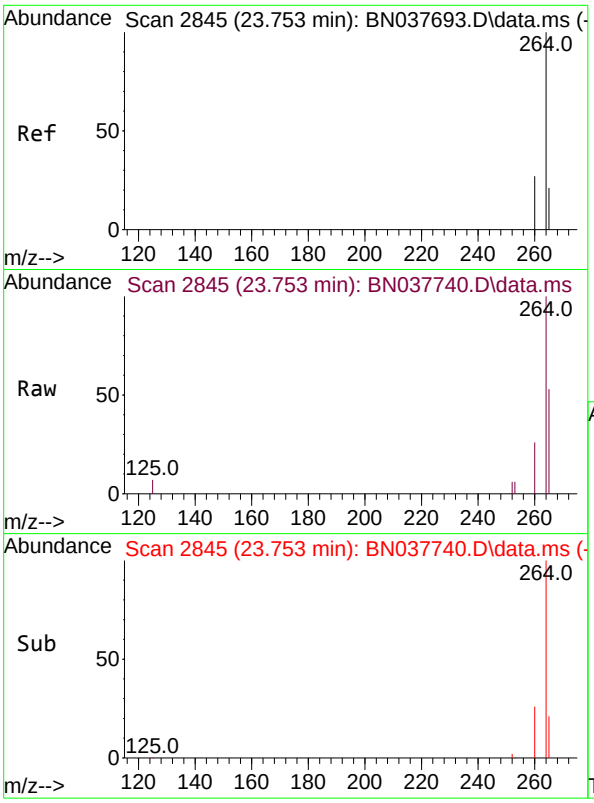




#34
Bis(2-ethylhexyl)phthalate
Concen: 0.425 ng
RT: 21.349 min Scan# 2266
Delta R.T. -0.000 min
Lab File: BN037740.D
Acq: 17 Sep 2025 11:25

Tgt Ion:149 Resp: 6080

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 149 | 100 | | |
| 167 | 27.5 | 20.8 | 31.2 |
| 279 | 3.8 | 3.3 | 4.9 |



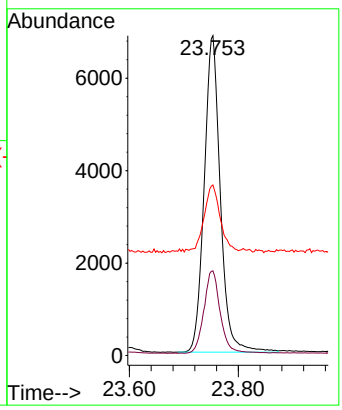


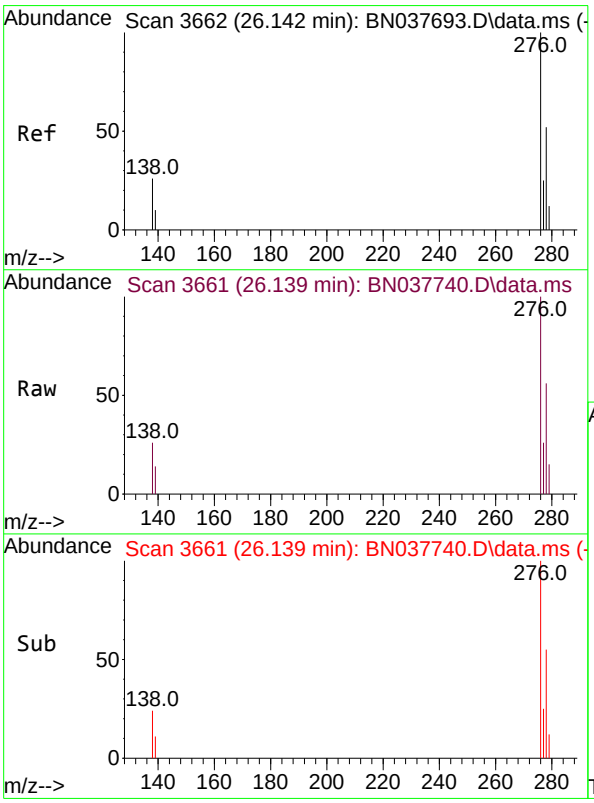

#35
Perylene-d12
Concen: 0.400 ng
RT: 23.753 min Scan# 28
Delta R.T. -0.000 min
Lab File: BN037740.D
Acq: 17 Sep 2025 11:25

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4

Tgt Ion:264 Resp: 14132

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 264 | 100 | | |
| 260 | 26.5 | 21.8 | 32.8 |
| 265 | 53.3 | 39.4 | 59.2 |

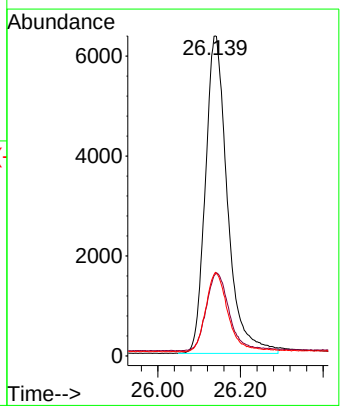


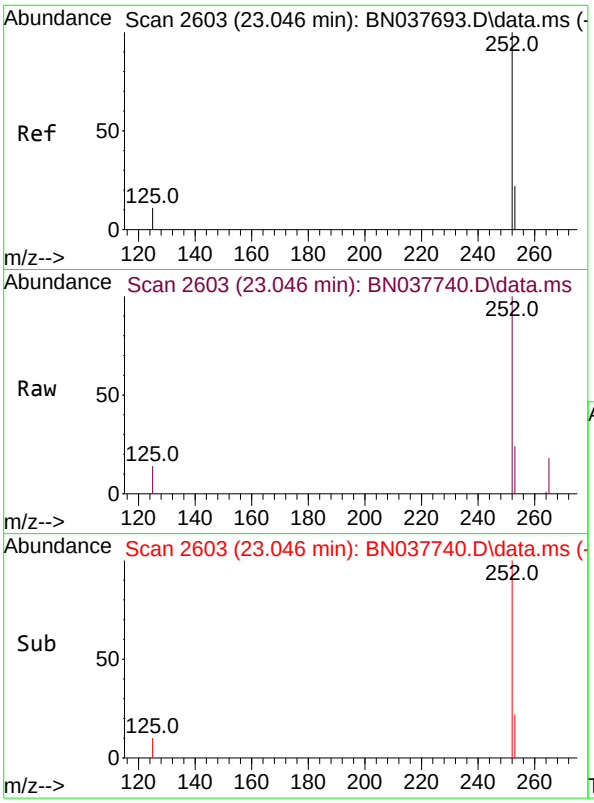




#36
Indeno(1,2,3-cd)pyrene
Concen: 0.397 ng
RT: 26.139 min Scan# 3661
Delta R.T. -0.003 min
Lab File: BN037740.D
Acq: 17 Sep 2025 11:25

Tgt Ion:276 Resp: 23556

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 276 | 100 | | |
| 138 | 25.6 | 21.9 | 32.9 |
| 277 | 25.0 | 20.1 | 30.1 |



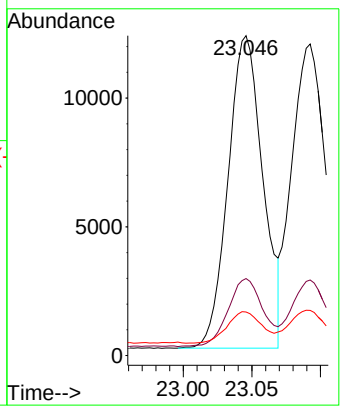


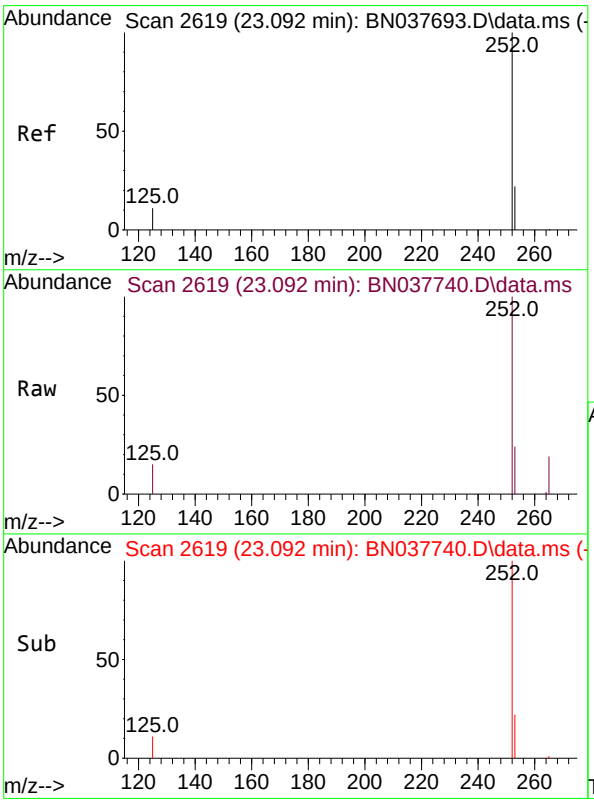

#37
Benzo(b)fluoranthene
Concen: 0.385 ng
RT: 23.046 min Scan# 2
Delta R.T. -0.000 min
Lab File: BN037740.D
Acq: 17 Sep 2025 11:25

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4

Tgt Ion:252 Resp: 21437

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 24.1 | 19.4 | 29.2 |
| 125 | 13.6 | 11.2 | 16.8 |

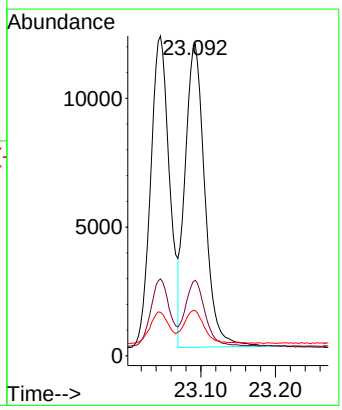


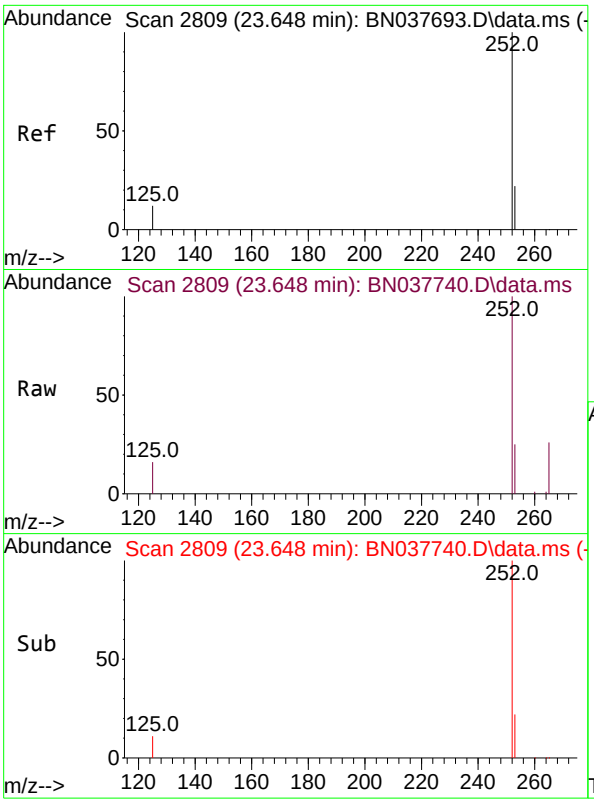




#38
Benzo(k)fluoranthene
Concen: 0.382 ng
RT: 23.092 min Scan# 2619
Delta R.T. -0.000 min
Lab File: BN037740.D
Acq: 17 Sep 2025 11:25

Tgt Ion:252 Resp: 21654

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 24.3 | 19.4 | 29.0 |
| 125 | 14.5 | 11.6 | 17.4 |



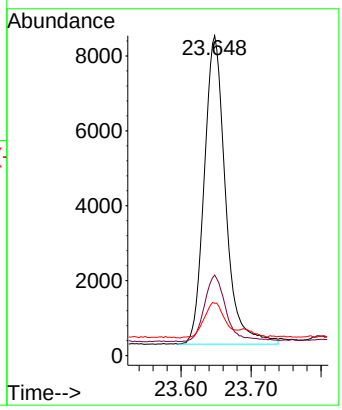


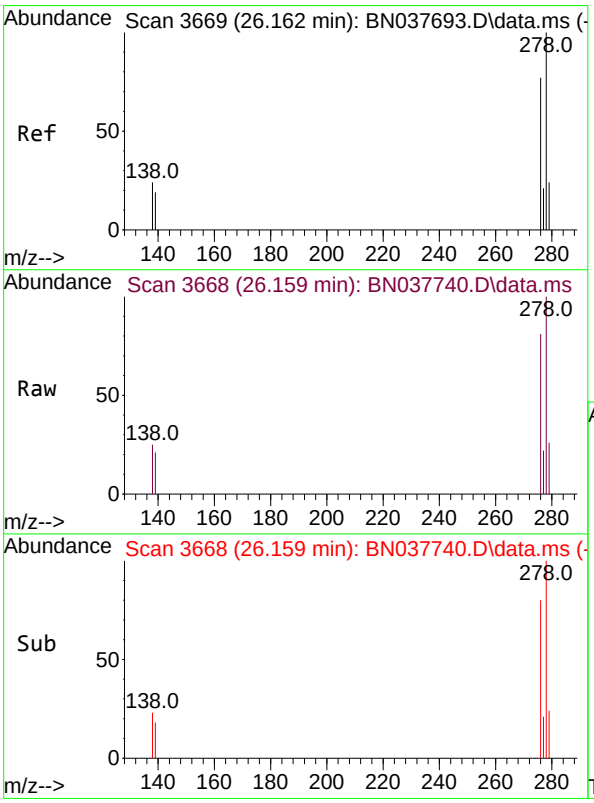

#39
Benzo(a)pyrene
Concen: 0.390 ng
RT: 23.648 min Scan# 28
Delta R.T. -0.000 min
Lab File: BN037740.D
Acq: 17 Sep 2025 11:25

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4

Tgt Ion:252 Resp: 17359

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 25.2 | 20.8 | 31.2 |
| 125 | 16.4 | 13.9 | 20.9 |

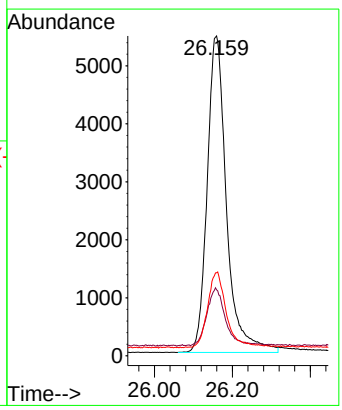


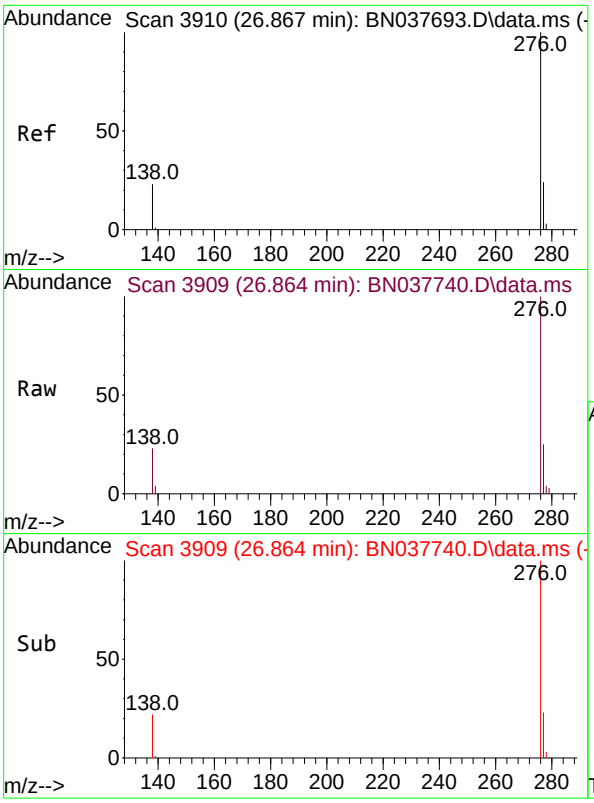




#40
Dibenzo(a,h)anthracene
Concen: 0.395 ng
RT: 26.159 min Scan# 3668
Delta R.T. -0.003 min
Lab File: BN037740.D
Acq: 17 Sep 2025 11:25

Tgt Ion:278 Resp: 18747

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 278 | 100 | | |
| 139 | 20.6 | 17.8 | 26.6 |
| 279 | 26.0 | 22.0 | 33.0 |



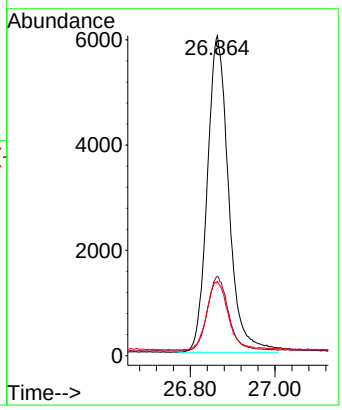



#41
Benzo(g,h,i)perylene
Concen: 0.396 ng
RT: 26.864 min Scan# 3
Delta R.T. -0.003 min
Lab File: BN037740.D
Acq: 17 Sep 2025 11:25

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4

Tgt Ion:276 Resp: 21072

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 276 | 100 | | |
| 277 | 24.8 | 20.6 | 31.0 |
| 138 | 23.2 | 20.2 | 30.2 |



Sample Results: **BN037740.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN091725\
Data File : BN037740.D
Acq On : 17 Sep 2025 11:25
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 2 Sample Multiplier: 1

**Instrument :**
BNA_N
**LabSampleId :**
SSTDCCC0.4

Quant Time: Sep 17 12:51:32 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN091125.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Sep 11 14:20:01 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 | 133 | 0.00 |
| 2 | | 1,4-Dioxane | 0.417 | 0.449 | -7.7 | 142 | 0.00 |
| 3 | | n-Nitrosodimethylamine | 0.544 | 0.479 | 11.9 | 113 | 0.00 |
| 4 | S | 2-Fluorophenol | 0.918 | 0.926 | -0.9 | 139 | 0.00 |
| 5 | S | Phenol-d6 | 1.191 | 1.176 | 1.3 | 136 | 0.00 |
| 6 | | bis(2-Chloroethyl)ether | 1.064 | 1.056 | 0.8 | 132 | 0.00 |
| 7 | I | Naphthalene-d8 | 1.000 | 1.000 | 0.0 | 139 | 0.00 |
| 8 | S | Nitrobenzene-d5 | 0.293 | 0.284 | 3.1 | 138 | -0.01 |
| 9 | | Naphthalene | 1.093 | 1.063 | 2.7 | 137 | 0.00 |
| 10 | | Hexachlorobutadiene | 0.198 | 0.188 | 5.1 | 132 | -0.01 |
| 11 | SURR | 2-Methylnaphthalene-d10 | 0.530 | 0.517 | 2.5 | 144 | 0.00 |
| 12 | | 2-Methylnaphthalene | 0.676 | 0.661 | 2.2 | 139 | 0.00 |
| 13 | I | Acenaphthene-d10 | 1.000 | 1.000 | 0.0 | 144 | 0.00 |
| 14 | S | 2,4,6-Tribromophenol | 0.104 | 0.123 | -18.3 | 175# | 0.00 |
| 15 | S | 2-Fluorobiphenyl | 1.673 | 1.620 | 3.2 | 141 | 0.00 |
| 16 | | Acenaphthylene | 1.834 | 1.719 | 6.3 | 139 | 0.00 |
| 17 | | Acenaphthene | 1.240 | 1.162 | 6.3 | 138 | 0.00 |
| 18 | | Fluorene | 1.502 | 1.345 | 10.5 | 134 | 0.00 |
| 19 | I | Phenanthrene-d10 | 1.000 | 1.000 | 0.0 | 140 | 0.00 |
| 20 | | 4,6-Dinitro-2-methylphenol | 0.037 | 0.032 | 13.5 | 138 | 0.00 |
| 21 | | 4-Bromophenyl-phenylether | 0.261 | 0.257 | 1.5 | 144 | -0.01 |
| 22 | | Hexachlorobenzene | 0.300 | 0.307 | -2.3 | 146 | 0.00 |
| 23 | | Atrazine | 0.166 | 0.154 | 7.2 | 142 | 0.00 |
| 24 | | Pentachlorophenol | 0.087 | 0.244 | -180.5# | 460# | 0.00 |
| 25 | | Phenanthrene | 1.259 | 1.205 | 4.3 | 138 | -0.01 |
| 26 | | Anthracene | 1.116 | 1.049 | 6.0 | 138 | 0.00 |
| 27 | SURR | Fluoranthene-d10 | 1.004 | 0.936 | 6.8 | 141 | 0.00 |
| 28 | | Fluoranthene | 1.381 | 1.314 | 4.9 | 141 | 0.00 |
| 29 | I | Chrysene-d12 | 1.000 | 1.000 | 0.0 | 148 | 0.00 |
| 30 | | Pyrene | 1.566 | 1.508 | 3.7 | 143 | 0.00 |
| 31 | S | Terphenyl-d14 | 0.812 | 0.757 | 6.8 | 140 | 0.00 |
| 32 | | Benzo(a)anthracene | 1.395 | 1.345 | 3.6 | 147 | 0.00 |
| 33 | | Chrysene | 1.496 | 1.459 | 2.5 | 144 | 0.00 |
| 34 | | Bis(2-ethylhexyl)phthalate | 0.414 | 0.439 | -6.0 | 173# | 0.00 |
| 35 | I | Perylene-d12 | 1.000 | 1.000 | 0.0 | 158# | 0.00 |
| 36 | | Indeno(1,2,3-cd)pyrene | 1.681 | 1.667 | 0.8 | 170# | 0.00 |
| 37 | | Benzo(b)fluoranthene | 1.575 | 1.517 | 3.7 | 154# | 0.00 |
| 38 | | Benzo(k)fluoranthene | 1.606 | 1.532 | 4.6 | 159# | 0.00 |
| 39 | C | Benzo(a)pyrene | 1.261 | 1.228 | 2.6 | 161# | 0.00 |
| 40 | | Dibenzo(a,h)anthracene | 1.342 | 1.327 | 1.1 | 173# | 0.00 |
| 41 | | Benzo(g,h,i)perylene | 1.506 | 1.491 | 1.0 | 162# | 0.00 |

(#) = Out of Range SPCC's out = 0 CCC's out = 0

**Instrument :**
BNA_N
**LabSampleId :**
SSTDCCC0.4

Sample Results: **BN037740.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN091725\
Data File : BN037740.D
Acq On : 17 Sep 2025 11:25
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 2 Sample Multiplier: 1

**Instrument :**
BNA_N
**LabSampleId :**
SSTDCCC0.4

Quant Time: Sep 17 12:51:32 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN091125.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Sep 11 14:20:01 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 | 133 | 0.00 |
| 2 | | 1,4-Dioxane | 0.400 | 0.431 | -7.7 | 142 | 0.00 |
| 3 | | n-Nitrosodimethylamine | 0.400 | 0.352 | 12.0 | 113 | 0.00 |
| 4 | S | 2-Fluorophenol | 0.400 | 0.403 | -0.8 | 139 | 0.00 |
| 5 | S | Phenol-d6 | 0.400 | 0.395 | 1.3 | 136 | 0.00 |
| 6 | | bis(2-Chloroethyl)ether | 0.400 | 0.397 | 0.8 | 132 | 0.00 |
| 7 | I | Naphthalene-d8 | 0.400 | 0.400 | 0.0 | 139 | 0.00 |
| 8 | S | Nitrobenzene-d5 | 0.400 | 0.388 | 3.0 | 138 | -0.01 |
| 9 | | Naphthalene | 0.400 | 0.389 | 2.8 | 137 | 0.00 |
| 10 | | Hexachlorobutadiene | 0.400 | 0.380 | 5.0 | 132 | -0.01 |
| 11 | SURR | 2-Methylnaphthalene-d10 | 0.400 | 0.391 | 2.3 | 144 | 0.00 |
| 12 | | 2-Methylnaphthalene | 0.400 | 0.391 | 2.3 | 139 | 0.00 |
| 13 | I | Acenaphthene-d10 | 0.400 | 0.400 | 0.0 | 144 | 0.00 |
| 14 | S | 2,4,6-Tribromophenol | 0.400 | 0.470 | -17.5 | 175 | 0.00 |
| 15 | S | 2-Fluorobiphenyl | 0.400 | 0.387 | 3.3 | 141 | 0.00 |
| 16 | | Acenaphthylene | 0.400 | 0.375 | 6.3 | 139 | 0.00 |
| 17 | | Acenaphthene | 0.400 | 0.375 | 6.3 | 138 | 0.00 |
| 18 | | Fluorene | 0.400 | 0.358 | 10.5 | 134 | 0.00 |
| 19 | I | Phenanthrene-d10 | 0.400 | 0.400 | 0.0 | 140 | 0.00 |
| 20 | | 4,6-Dinitro-2-methylphenol | 0.400 | 0.350 | 12.5 | 138 | 0.00 |
| 21 | | 4-Bromophenyl-phenylether | 0.400 | 0.395 | 1.3 | 144 | -0.01 |
| 22 | | Hexachlorobenzene | 0.400 | 0.409 | -2.2 | 146 | 0.00 |
| 23 | | Atrazine | 0.400 | 0.371 | 7.3 | 142 | 0.00 |
| 24 | | Pentachlorophenol | 0.400 | 1.120 | -180.0# | 460 | 0.00 |
| 25 | | Phenanthrene | 0.400 | 0.383 | 4.3 | 138 | -0.01 |
| 26 | | Anthracene | 0.400 | 0.376 | 6.0 | 138 | 0.00 |
| 27 | SURR | Fluoranthene-d10 | 0.400 | 0.373 | 6.8 | 141 | 0.00 |
| 28 | | Fluoranthene | 0.400 | 0.381 | 4.8 | 141 | 0.00 |
| 29 | I | Chrysene-d12 | 0.400 | 0.400 | 0.0 | 148 | 0.00 |
| 30 | | Pyrene | 0.400 | 0.385 | 3.8 | 143 | 0.00 |
| 31 | S | Terphenyl-d14 | 0.400 | 0.373 | 6.8 | 140 | 0.00 |
| 32 | | Benzo(a)anthracene | 0.400 | 0.386 | 3.5 | 147 | 0.00 |
| 33 | | Chrysene | 0.400 | 0.390 | 2.5 | 144 | 0.00 |
| 34 | | Bis(2-ethylhexyl)phthalate | 0.400 | 0.425 | -6.2 | 173 | 0.00 |
| 35 | I | Perylene-d12 | 0.400 | 0.400 | 0.0 | 158 | 0.00 |
| 36 | | Indeno(1,2,3-cd)pyrene | 0.400 | 0.397 | 0.8 | 170 | 0.00 |
| 37 | | Benzo(b)fluoranthene | 0.400 | 0.385 | 3.8 | 154 | 0.00 |
| 38 | | Benzo(k)fluoranthene | 0.400 | 0.382 | 4.5 | 159 | 0.00 |
| 39 | C | Benzo(a)pyrene | 0.400 | 0.390 | 2.5 | 161 | 0.00 |
| 40 | | Dibenzo(a,h)anthracene | 0.400 | 0.395 | 1.3 | 173 | 0.00 |
| 41 | | Benzo(g,h,i)perylene | 0.400 | 0.396 | 1.0 | 162 | 0.00 |

(#) = Out of Range SPCC's out = 0 CCC's out = 0

**Instrument :**
BNA_N
**LabSampleId :**
SSTDCCC0.4

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

7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: Alliance Contract: AECO15

Lab Code: ACE SDG No.: Q3095

Instrument ID: BNA_N Calibration Date/Time: 09/17/2025 21:50

Lab File ID: BN037757.D Init. Calib. Date(s): 09/11/2025 09/11/2025

EPA Sample No.: SSTDCCC0.4EC Init. Calib. Time(s): 09:56 13:33

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

| COMPOUND | RRF | RRF0.4 | MIN RRF | %D | MAX%D |
|---|---|---|---|---|---|
| 2-Methylnaphthalene-d10 | 0.530 | 0.503 | | -5.1 | 50.0 |
| Fluoranthene-d10 | 1.004 | 0.936 | | -6.8 | 50.0 |
| 2-Fluorophenol | 0.918 | 0.971 | | 5.8 | 50.0 |
| Phenol-d6 | 1.191 | 1.159 | | -2.7 | 50.0 |
| Nitrobenzene-d5 | 0.293 | 0.283 | | -3.4 | 50.0 |
| 2-Fluorobiphenyl | 1.673 | 1.646 | | -1.6 | 50.0 |
| 2,4,6-Tribromophenol | 0.104 | 0.122 | | 17.3 | 50.0 |
| Terphenyl-d14 | 0.812 | 0.761 | | -6.3 | 50.0 |
| 1,4-Dioxane | 0.417 | 0.432 | | 3.6 | 50.0 |

All other compounds must meet a minimum RRF of 0.010.

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN091725\
Data File : BN037757.D
Acq On : 17 Sep 2025 21:50
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 19 Sample Multiplier: 1

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4EC

Quant Time: Sep 18 05:02:02 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN091125.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Sep 11 14:20:01 2025
Response via : Initial Calibration

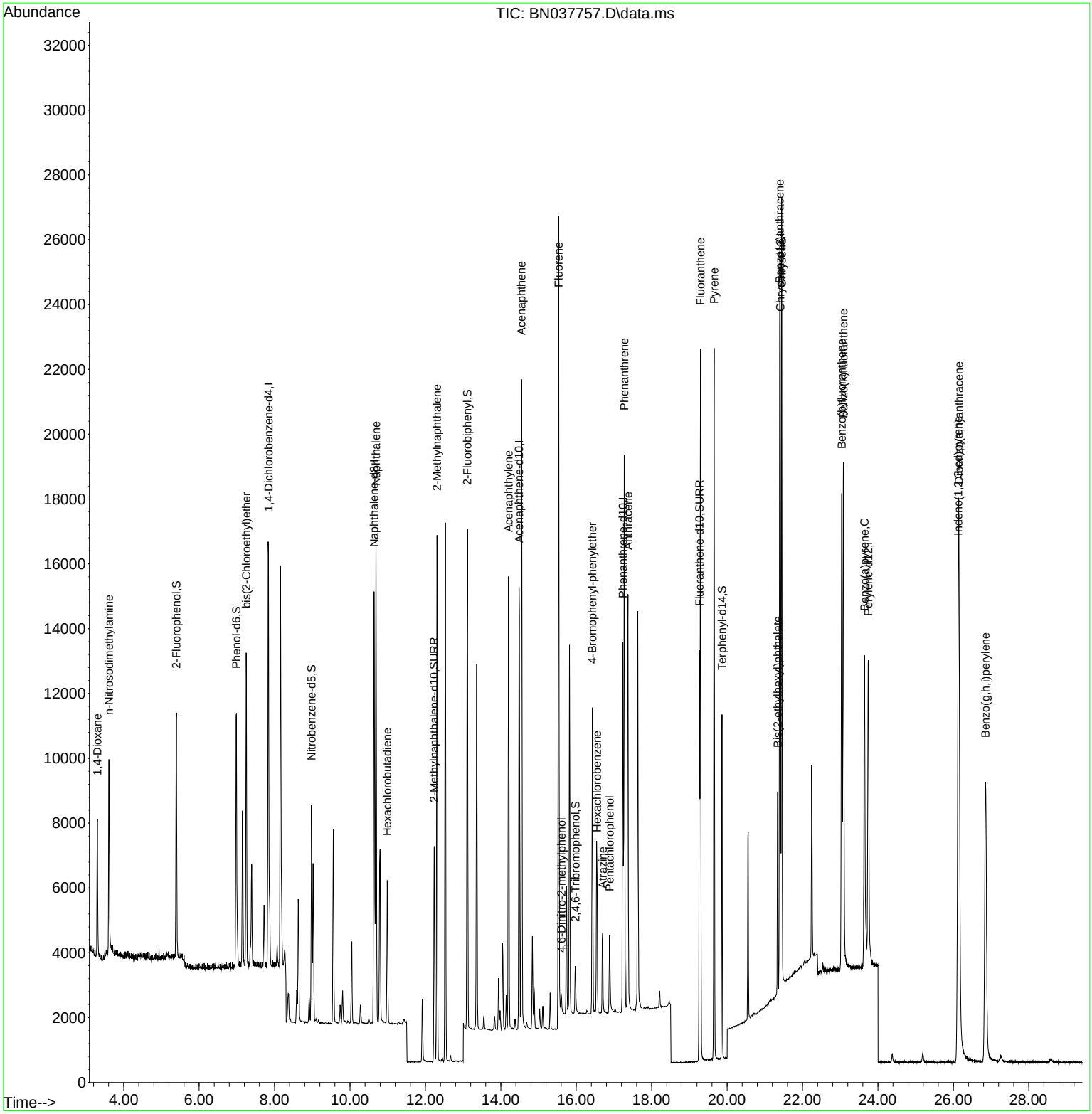
| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| Internal Standards | | | | | | | |
| 1) 1,4-Dichlorobenzene-d4 | 7.840 | 152 | 6630 | 0.400 | ng | | 0.00 |
| 7) Naphthalene-d8 | 10.637 | 136 | 17815 | 0.400 | ng | | -0.01 |
| 13) Acenaphthene-d10 | 14.484 | 164 | 8255 | 0.400 | ng | | -0.01 |
| 19) Phenanthrene-d10 | 17.235 | 188 | 14702 | 0.400 | ng | # | 0.00 |
| 29) Chrysene-d12 | 21.411 | 240 | 12983 | 0.400 | ng | # | 0.00 |
| 35) Perylene-d12 | 23.744 | 264 | 13482 | 0.400 | ng | | 0.00 |
| System Monitoring Compounds | | | | | | | |
| 4) 2-Fluorophenol | 5.399 | 112 | 6438 | 0.423 | ng | | 0.00 |
| 5) Phenol-d6 | 6.988 | 99 | 7681 | 0.389 | ng | | 0.00 |
| 8) Nitrobenzene-d5 | 8.982 | 82 | 5036 | 0.386 | ng | | -0.01 |
| 11) 2-Methylnaphthalene-d10 | 12.233 | 152 | 8966 | 0.380 | ng | | -0.01 |
| 14) 2,4,6-Tribromophenol | 15.982 | 330 | 1005 | 0.467 | ng | | 0.00 |
| 15) 2-Fluorobiphenyl | 13.115 | 172 | 13587 | 0.394 | ng | | 0.00 |
| 27) Fluoranthene-d10 | 19.266 | 212 | 13764 | 0.373 | ng | | 0.00 |
| 31) Terphenyl-d14 | 19.866 | 244 | 9880 | 0.375 | ng | | 0.00 |
| Target Compounds | | | | | | | Qvalue |
| 2) 1,4-Dioxane | 3.304 | 88 | 2861 | 0.414 | ng | | 94 |
| 3) n-Nitrosodimethylamine | 3.608 | 42 | 3465 | 0.384 | ng | # | 84 |
| 6) bis(2-Chloroethyl)ether | 7.248 | 93 | 6964 | 0.395 | ng | | 98 |
| 9) Naphthalene | 10.690 | 128 | 18989 | 0.390 | ng | | 100 |
| 10) Hexachlorobutadiene | 10.989 | 225 | 3435 | 0.390 | ng | # | 100 |
| 12) 2-Methylnaphthalene | 12.309 | 142 | 11595 | 0.385 | ng | | 98 |
| 16) Acenaphthylene | 14.206 | 152 | 14299 | 0.378 | ng | | 100 |
| 17) Acenaphthene | 14.548 | 154 | 9779 | 0.382 | ng | | 98 |
| 18) Fluorene | 15.535 | 166 | 11628 | 0.375 | ng | | 99 |
| 20) 4,6-Dinitro-2-methylph... | 15.609 | 198 | 458 | 0.336 | ng | | 91 |
| 21) 4-Bromophenyl-phenylether | 16.429 | 248 | 3725 | 0.389 | ng | # | 80 |
| 22) Hexachlorobenzene | 16.553 | 284 | 4478 | 0.406 | ng | | 98 |
| 23) Atrazine | 16.702 | 200 | 2285 | 0.375 | ng | | 97 |
| 24) Pentachlorophenol | 16.888 | 266 | 1350 | 0.422 | ng | | 98 |
| 25) Phenanthrene | 17.273 | 178 | 18027 | 0.389 | ng | | 100 |
| 26) Anthracene | 17.372 | 178 | 15467 | 0.377 | ng | | 99 |
| 28) Fluoranthene | 19.294 | 202 | 19235 | 0.379 | ng | | 100 |
| 30) Pyrene | 19.657 | 202 | 19188 | 0.378 | ng | | 100 |
| 32) Benzo(a)anthracene | 21.393 | 228 | 16951 | 0.374 | ng | | 100 |
| 33) Chrysene | 21.447 | 228 | 19181 | 0.395 | ng | | 98 |
| 34) Bis(2-ethylhexyl)phtha... | 21.340 | 149 | 5358 | 0.399 | ng | | 98 |
| 36) Indeno(1,2,3-cd)pyrene | 26.127 | 276 | 23784 | 0.420 | ng | | 99 |
| 37) Benzo(b)fluoranthene | 23.040 | 252 | 20070 | 0.378 | ng | | 99 |
| 38) Benzo(k)fluoranthene | 23.087 | 252 | 21141 | 0.391 | ng | | 99 |
| 39) Benzo(a)pyrene | 23.642 | 252 | 15798 | 0.372 | ng | | 99 |
| 40) Dibenzo(a,h)anthracene | 26.148 | 278 | 19232 | 0.425 | ng | | 98 |
| 41) Benzo(g,h,i)perylene | 26.852 | 276 | 20047 | 0.395 | ng | | 99 |

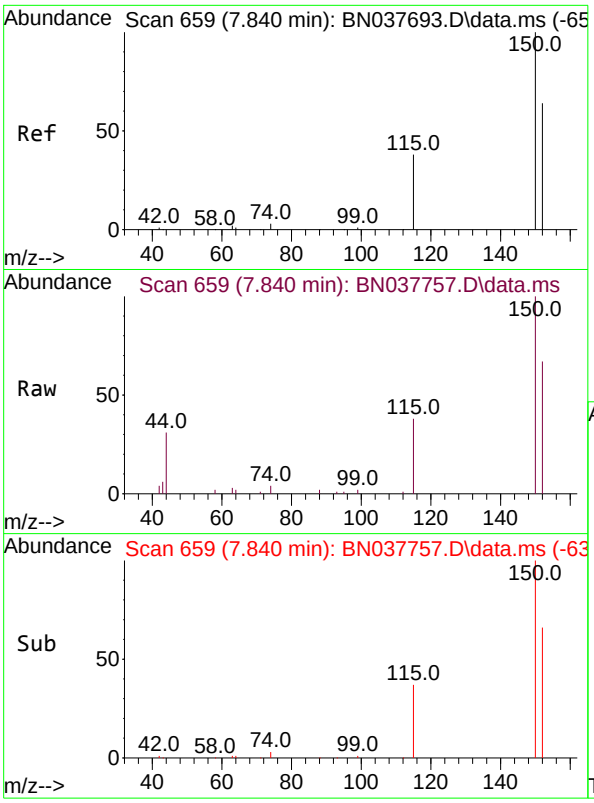
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN091725\
Data File : BN037757.D
Acq On : 17 Sep 2025 21:50
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 19 Sample Multiplier: 1

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4EC

Quant Time: Sep 18 05:02:02 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN091125.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Sep 11 14:20:01 2025
Response via : Initial Calibration



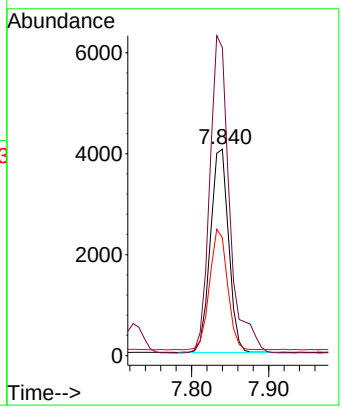


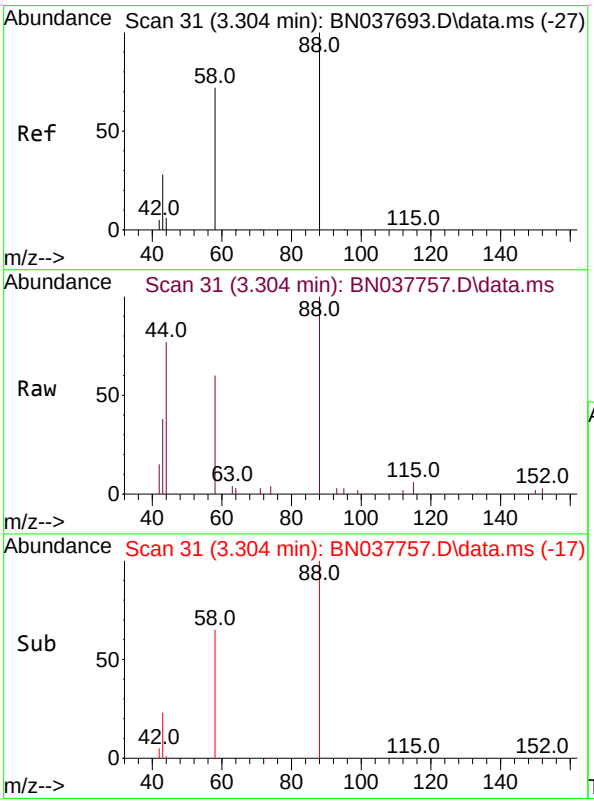

#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.840 min Scan# 6
Delta R.T. -0.000 min
Lab File: BN037757.D
Acq: 17 Sep 2025 21:50

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4EC

Tgt Ion:152 Resp: 6630

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 150 | 149.3 | 124.5 | 186.7 |
| 115 | 57.0 | 49.2 | 73.8 |

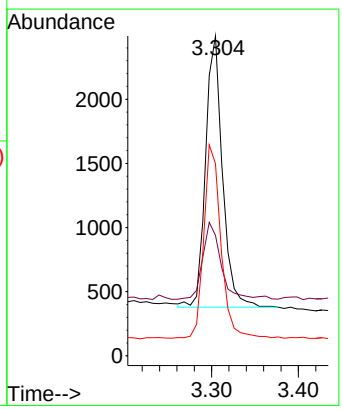


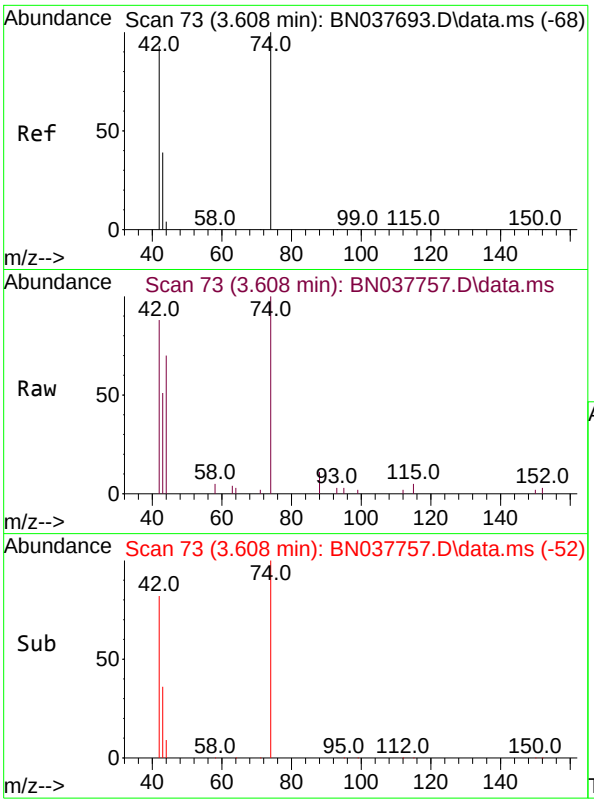




#2
1,4-Dioxane
Concen: 0.414 ng
RT: 3.304 min Scan# 31
Delta R.T. -0.000 min
Lab File: BN037757.D
Acq: 17 Sep 2025 21:50

Tgt Ion: 88 Resp: 2861

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 88 | 100 | | |
| 43 | 29.8 | 26.8 | 40.2 |
| 58 | 71.9 | 61.9 | 92.9 |



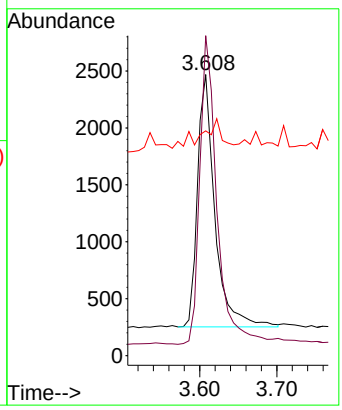


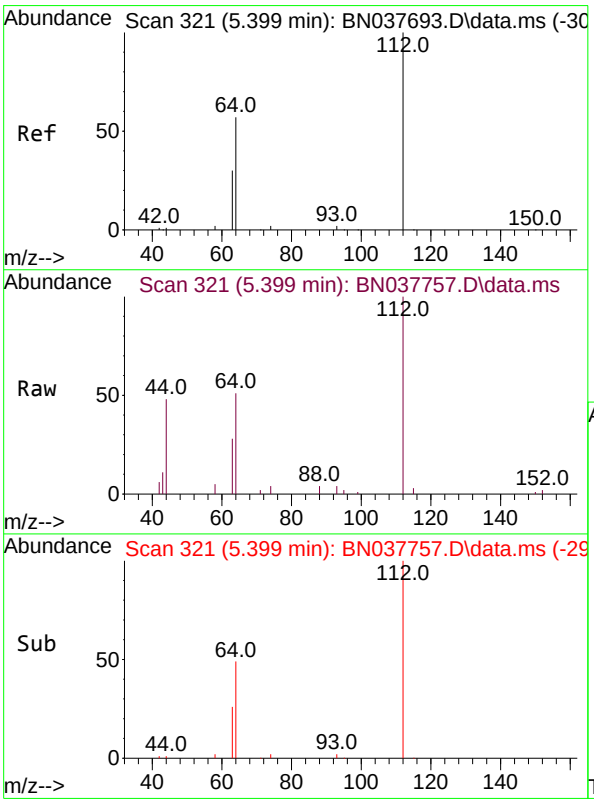

#3
n-Nitrosodimethylamine
Concen: 0.384 ng
RT: 3.608 min Scan# 7
Delta R.T. -0.000 min
Lab File: BN037757.D
Acq: 17 Sep 2025 21:50

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4EC

Tgt Ion: 42 Resp: 3465

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 42 | 100 | | |
| 74 | 123.7 | 86.0 | 129.0 |
| 44 | 18.4 | 8.4 | 12.6# |

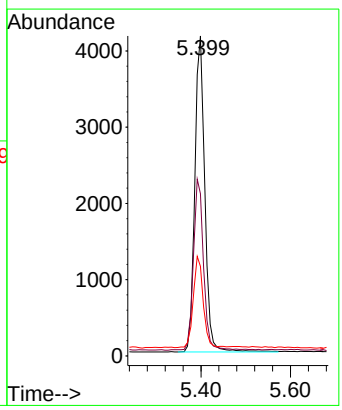


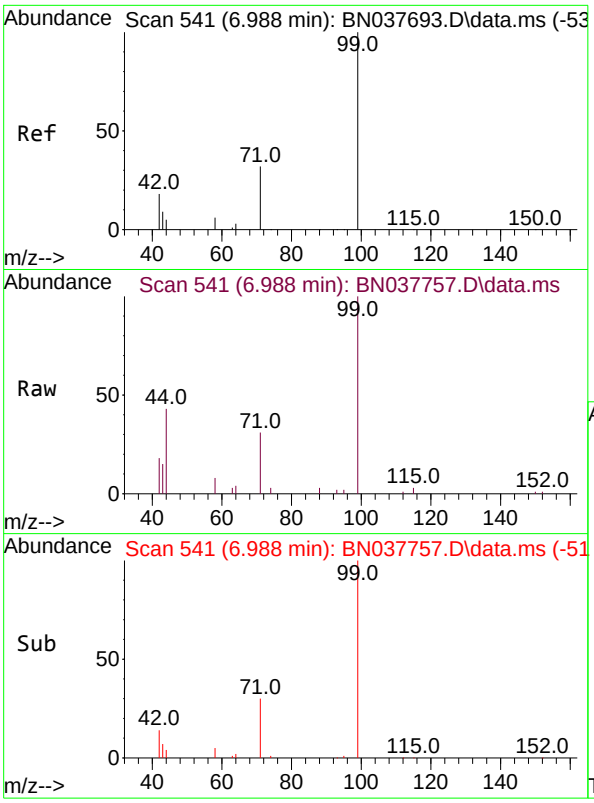




#4
2-Fluorophenol
Concen: 0.423 ng
RT: 5.399 min Scan# 321
Delta R.T. -0.000 min
Lab File: BN037757.D
Acq: 17 Sep 2025 21:50

Tgt Ion:112 Resp: 6438

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 112 | 100 | | |
| 64 | 55.1 | 44.9 | 67.3 |
| 63 | 28.7 | 24.7 | 37.1 |



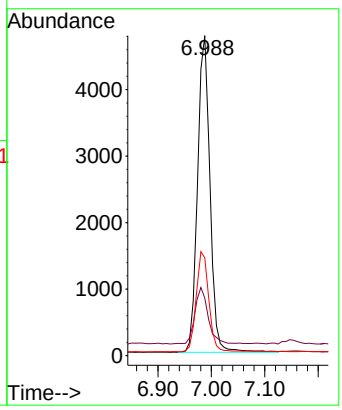


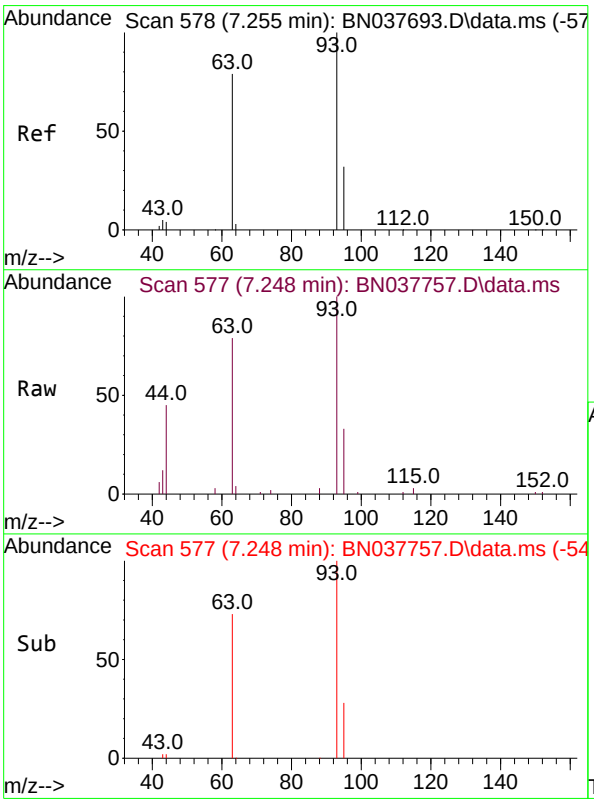

#5
Phenol-d6
Concen: 0.389 ng
RT: 6.988 min Scan# 54
Delta R.T. -0.000 min
Lab File: BN037757.D
Acq: 17 Sep 2025 21:50

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4EC

Tgt Ion: 99 Resp: 7681

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 99 | 100 | | |
| 42 | 19.0 | 16.6 | 24.8 |
| 71 | 32.2 | 26.7 | 40.1 |

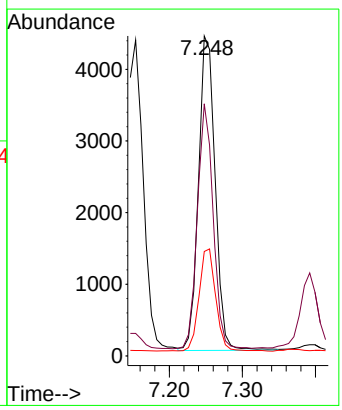


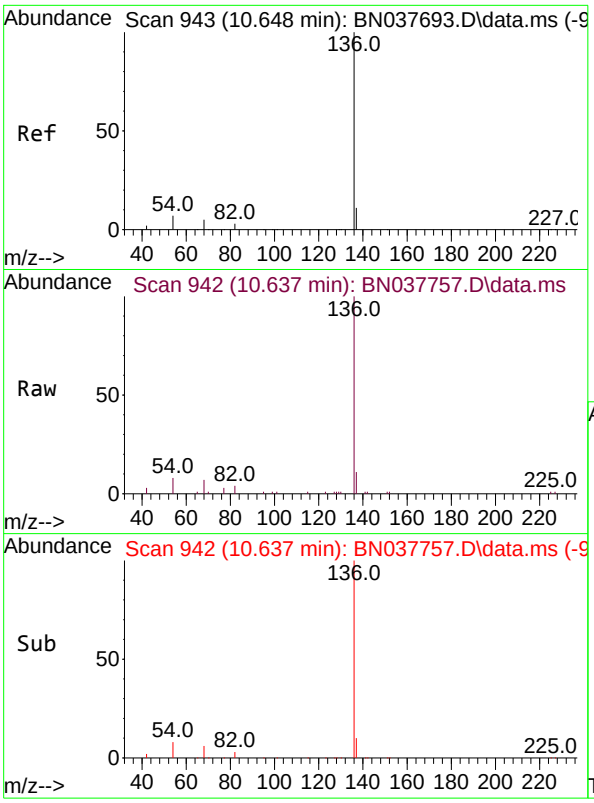




#6
bis(2-Chloroethyl)ether
Concen: 0.395 ng
RT: 7.248 min Scan# 577
Delta R.T. -0.007 min
Lab File: BN037757.D
Acq: 17 Sep 2025 21:50

Tgt Ion: 93 Resp: 6964

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 93 | 100 | | |
| 63 | 73.6 | 60.6 | 90.8 |
| 95 | 32.6 | 26.0 | 39.0 |



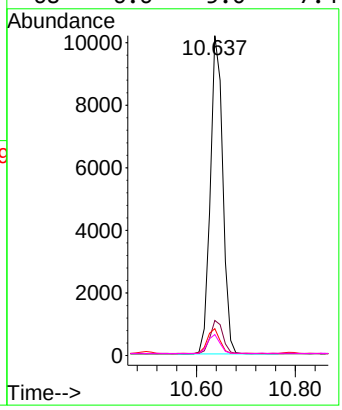


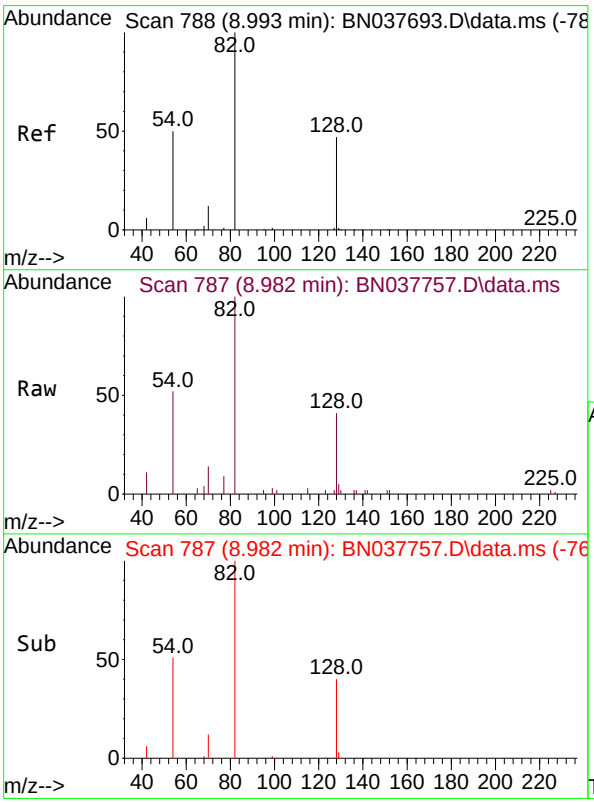

#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.637 min Scan# 94
Delta R.T. -0.011 min
Lab File: BN037757.D
Acq: 17 Sep 2025 21:50

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4EC

Tgt Ion:136 Resp: 17815

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 136 | 100 | | |
| 137 | 11.0 | 9.1 | 13.7 |
| 54 | 8.4 | 6.3 | 9.5 |
| 68 | 6.6 | 5.0 | 7.4 |

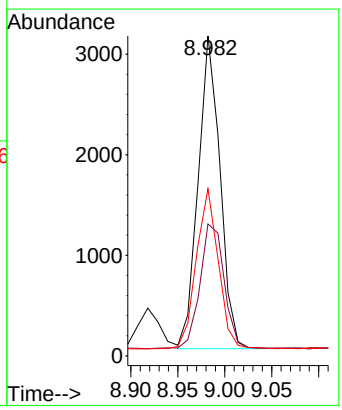


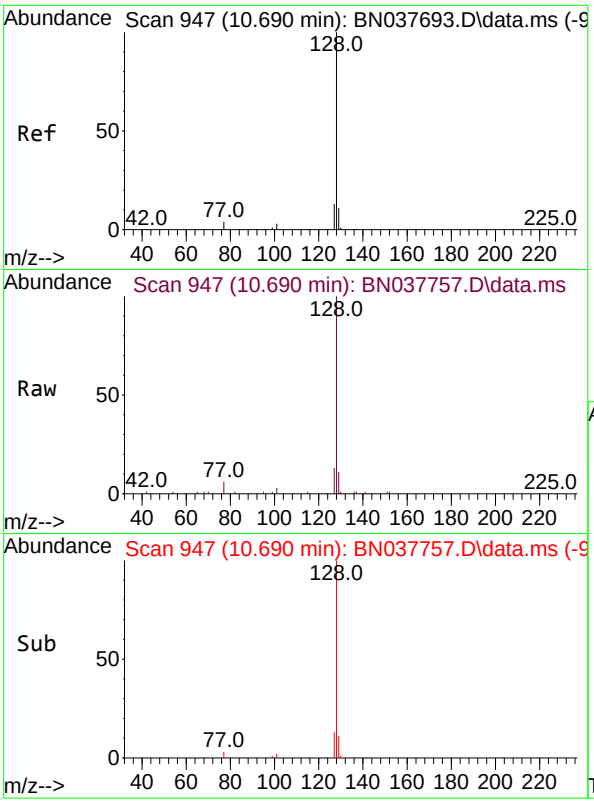




#8
Nitrobenzene-d5
Concen: 0.386 ng
RT: 8.982 min Scan# 787
Delta R.T. -0.011 min
Lab File: BN037757.D
Acq: 17 Sep 2025 21:50

Tgt Ion: 82 Resp: 5036

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 82 | 100 | | |
| 128 | 41.2 | 38.3 | 57.5 |
| 54 | 52.2 | 41.4 | 62.2 |



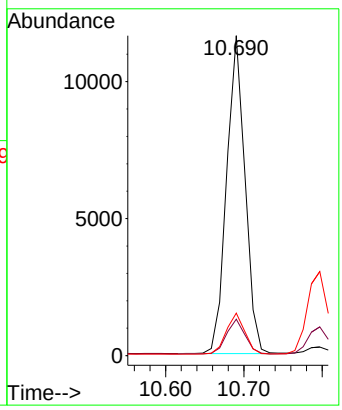


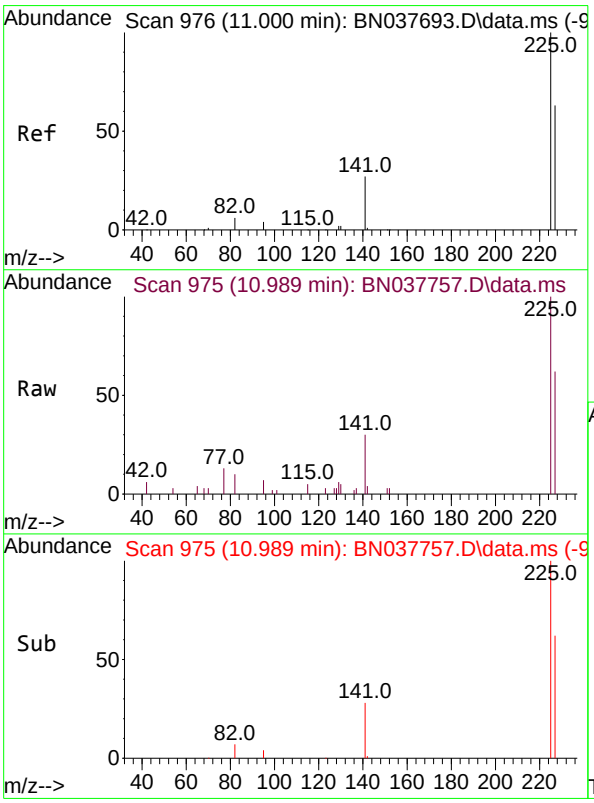

#9
Naphthalene
Concen: 0.390 ng
RT: 10.690 min Scan# 94
Delta R.T. -0.000 min
Lab File: BN037757.D
Acq: 17 Sep 2025 21:50

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4EC

Tgt Ion:128 Resp: 18989

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 128 | 100 | | |
| 129 | 11.4 | 9.1 | 13.7 |
| 127 | 13.3 | 10.9 | 16.3 |

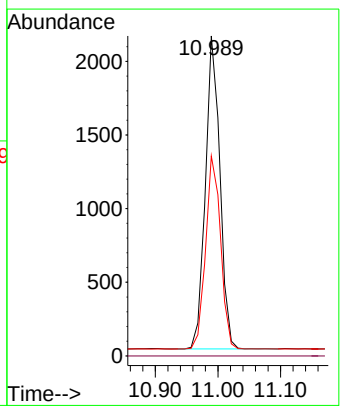


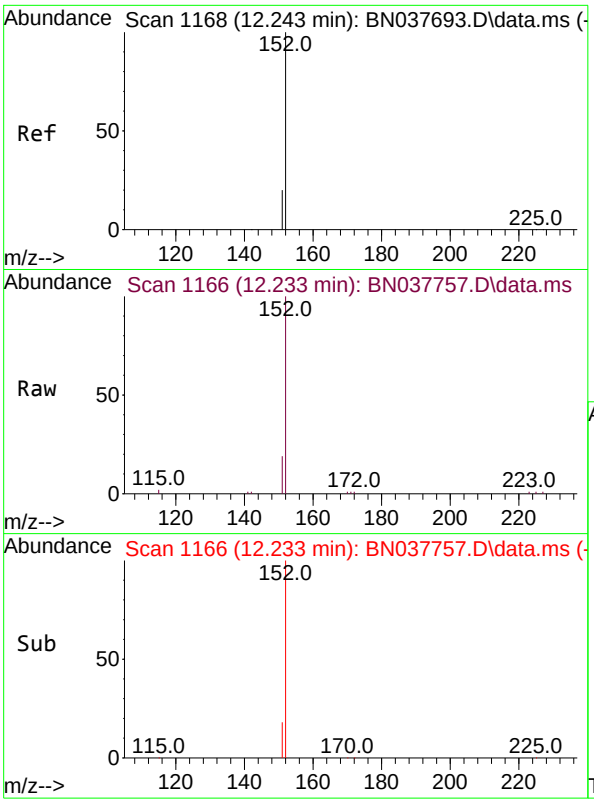




#10
Hexachlorobutadiene
Concen: 0.390 ng
RT: 10.989 min Scan# 975
Delta R.T. -0.011 min
Lab File: BN037757.D
Acq: 17 Sep 2025 21:50

Tgt Ion:225 Resp: 3435

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 225 | 100 | | |
| 223 | 0.0 | 0.0 | 0.0 |
| 227 | 63.7 | 50.9 | 76.3 |



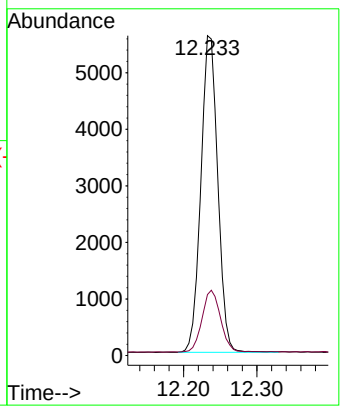


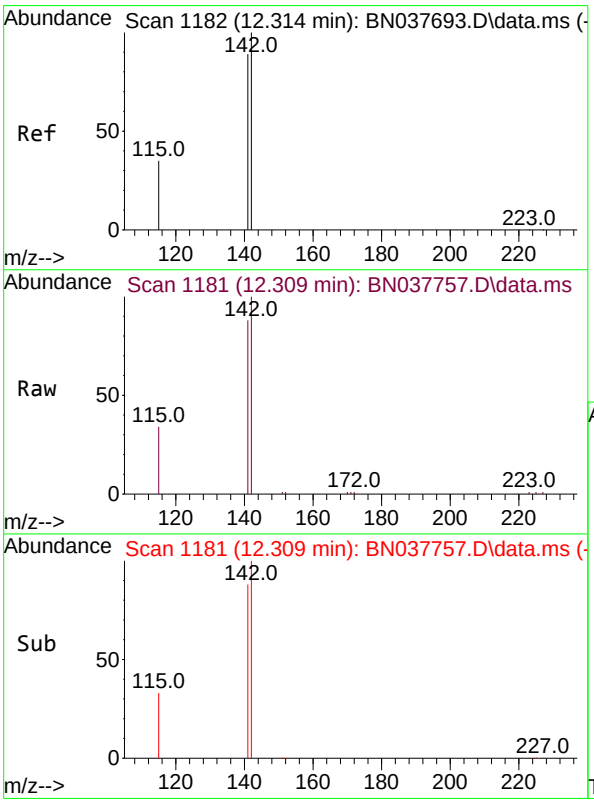

#11
2-Methylnaphthalene-d10
Concen: 0.380 ng
RT: 12.233 min Scan# 11
Delta R.T. -0.010 min
Lab File: BN037757.D
Acq: 17 Sep 2025 21:50

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4EC

Tgt Ion:152 Resp: 8966

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 151 | 21.4 | 17.0 | 25.6 |

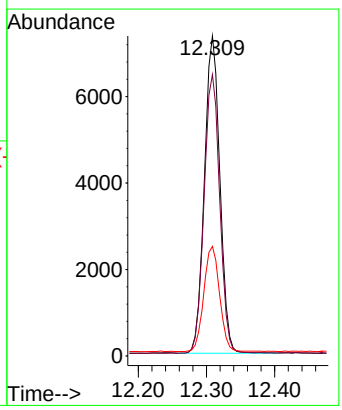


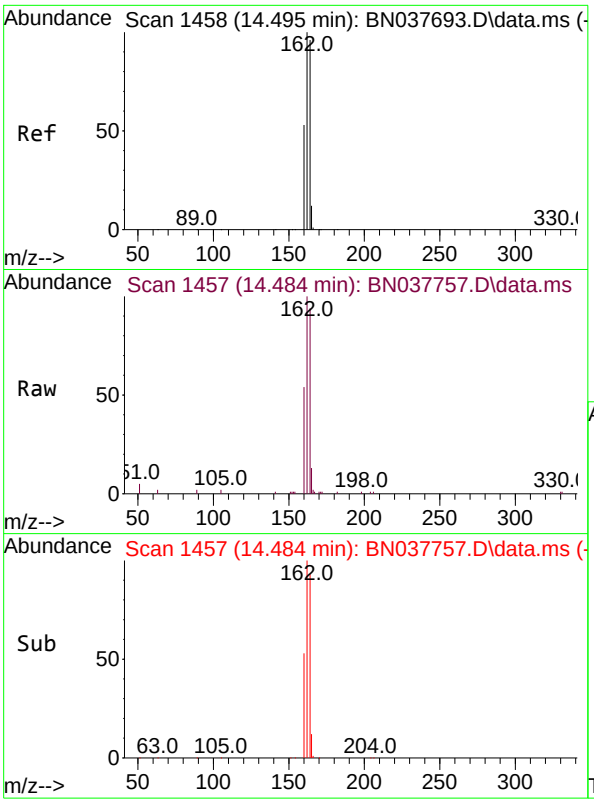




#12
2-Methylnaphthalene
Concen: 0.385 ng
RT: 12.309 min Scan# 1181
Delta R.T. -0.005 min
Lab File: BN037757.D
Acq: 17 Sep 2025 21:50

Tgt Ion:142 Resp: 11595

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 142 | 100 | | |
| 141 | 87.9 | 71.6 | 107.4 |
| 115 | 34.2 | 28.6 | 43.0 |



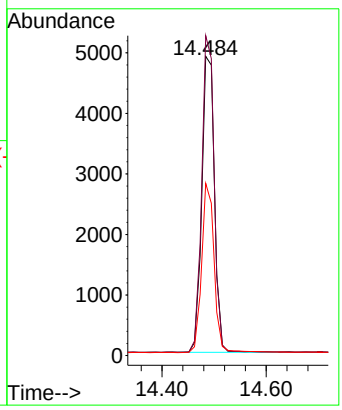


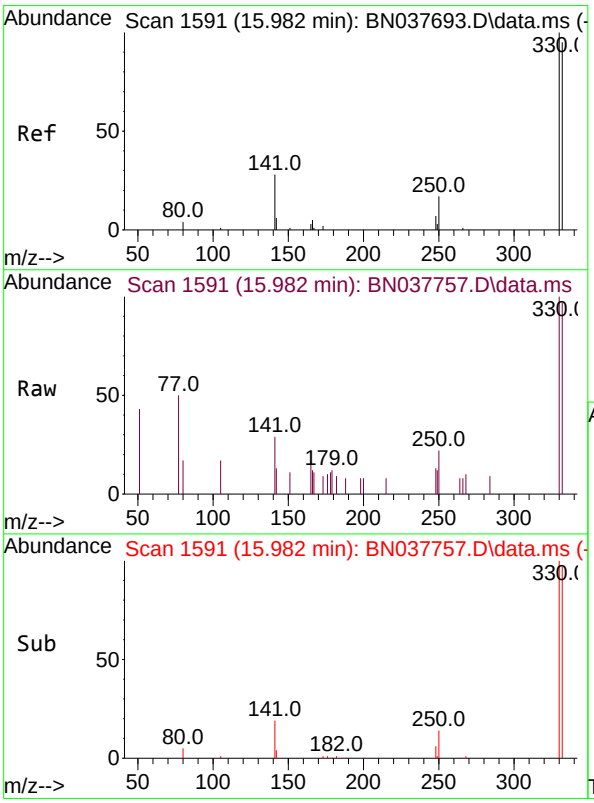

#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.484 min Scan# 14
Delta R.T. -0.011 min
Lab File: BN037757.D
Acq: 17 Sep 2025 21:50

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4EC

Tgt Ion:164 Resp: 8255

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 164 | 100 | | |
| 162 | 106.9 | 83.1 | 124.7 |
| 160 | 57.6 | 44.3 | 66.5 |

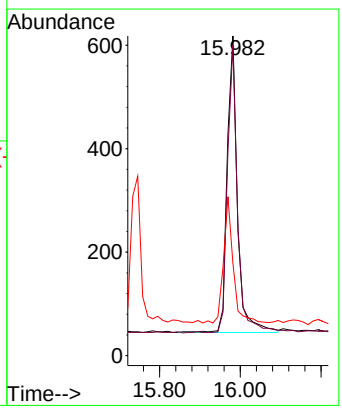


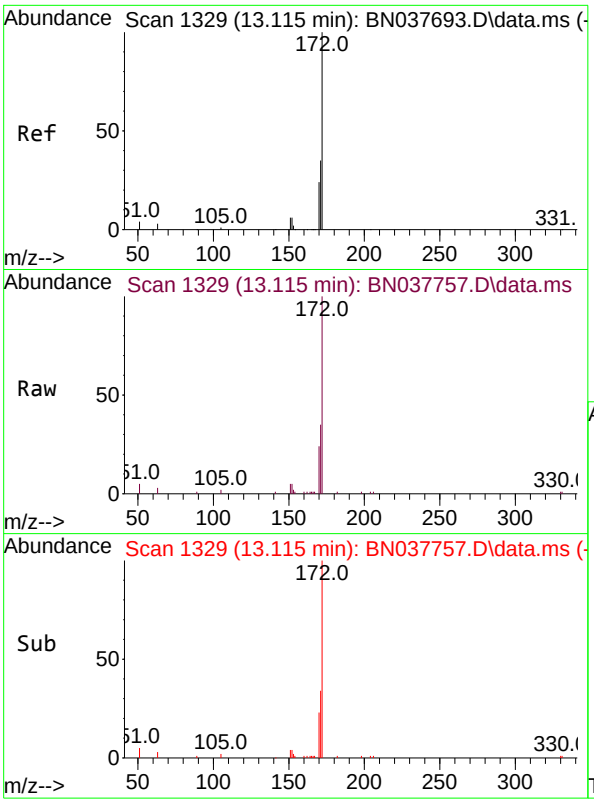




#14
2,4,6-Tribromophenol
Concen: 0.467 ng
RT: 15.982 min Scan# 1591
Delta R.T. -0.000 min
Lab File: BN037757.D
Acq: 17 Sep 2025 21:50

Tgt Ion:330 Resp: 1005

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 330 | 100 | | |
| 332 | 95.2 | 75.3 | 112.9 |
| 141 | 40.3 | 35.0 | 52.4 |



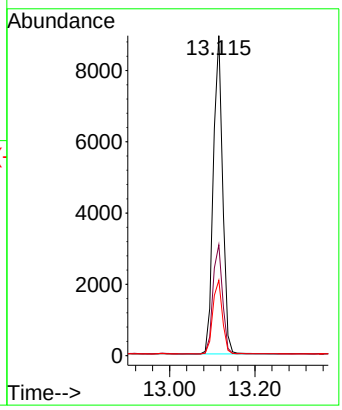


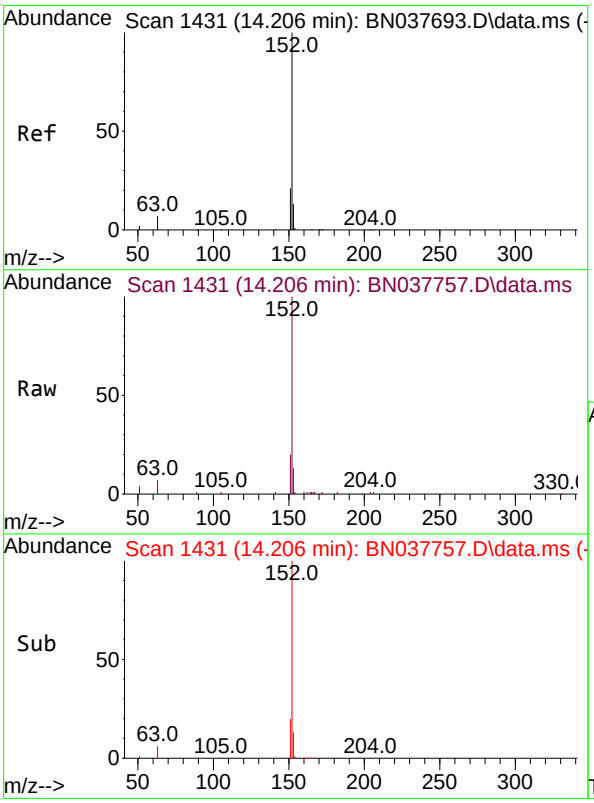

#15
2-Fluorobiphenyl
Concen: 0.394 ng
RT: 13.115 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN037757.D
Acq: 17 Sep 2025 21:50

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4EC

Tgt Ion:172 Resp: 13587

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 172 | 100 | | |
| 171 | 34.6 | 28.6 | 43.0 |
| 170 | 23.5 | 19.8 | 29.8 |

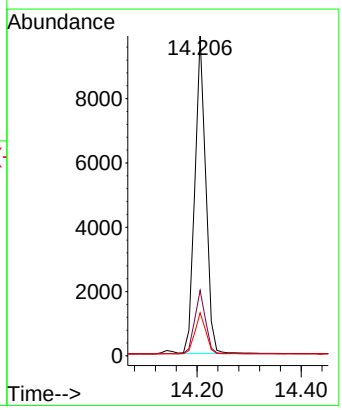


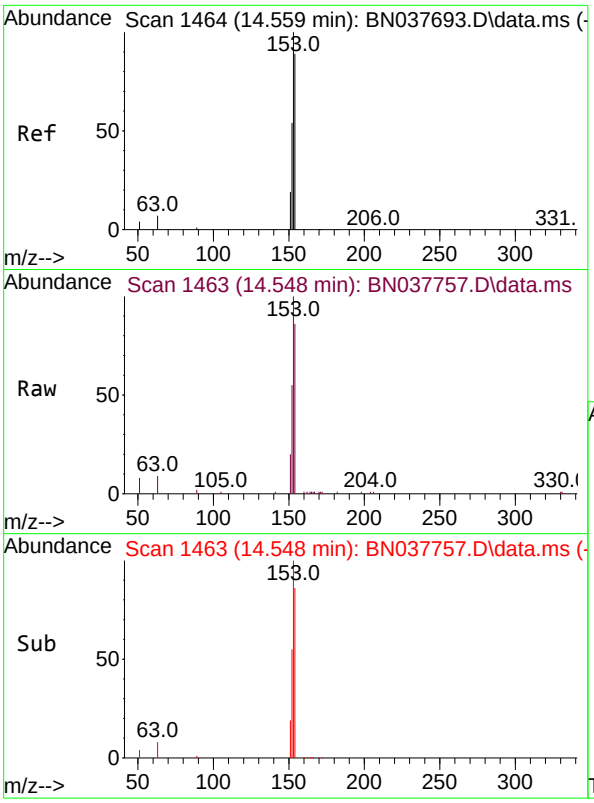




#16
Acenaphthylene
Concen: 0.378 ng
RT: 14.206 min Scan# 1431
Delta R.T. -0.000 min
Lab File: BN037757.D
Acq: 17 Sep 2025 21:50

Tgt Ion:152 Resp: 14299

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 151 | 20.1 | 16.2 | 24.2 |
| 153 | 13.2 | 10.4 | 15.6 |



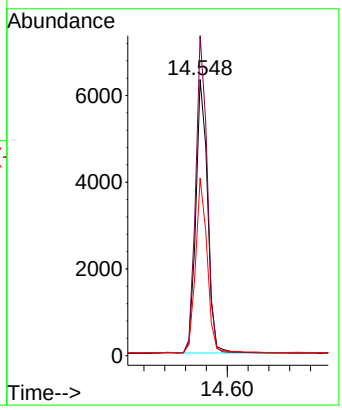


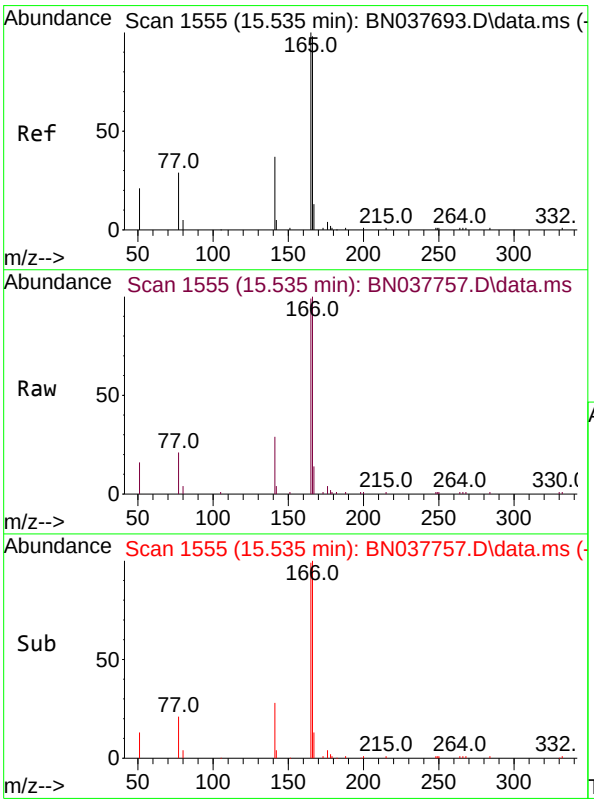

#17
Acenaphthene
Concen: 0.382 ng
RT: 14.548 min Scan# 14
Delta R.T. -0.011 min
Lab File: BN037757.D
Acq: 17 Sep 2025 21:50

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4EC

Tgt Ion:154 Resp: 9779

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 154 | 100 | | |
| 153 | 114.3 | 89.8 | 134.8 |
| 152 | 63.4 | 50.2 | 75.2 |

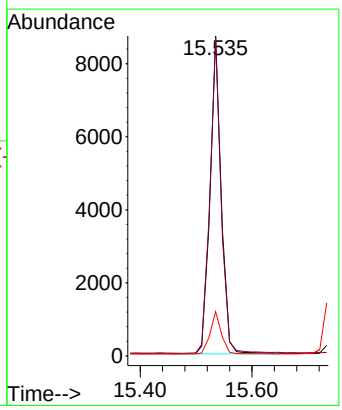


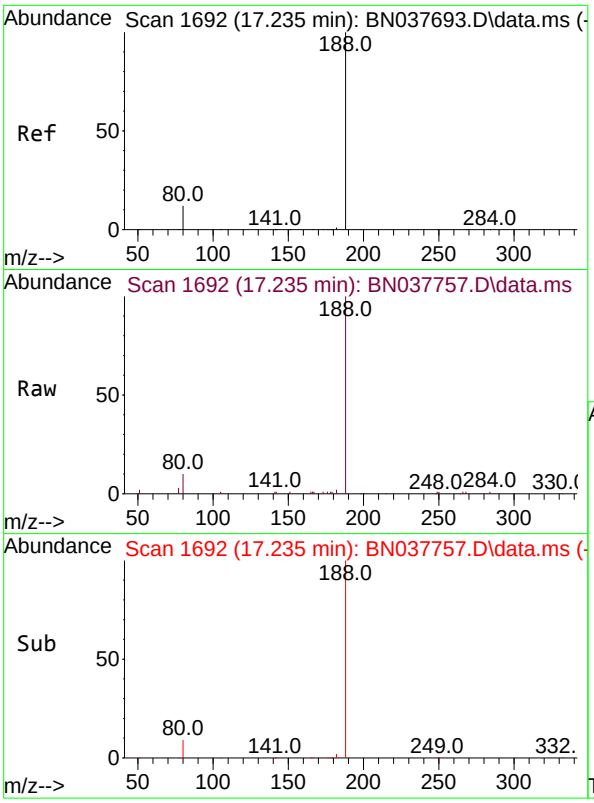




#18
Fluorene
Concen: 0.375 ng
RT: 15.535 min Scan# 1555
Delta R.T. -0.000 min
Lab File: BN037757.D
Acq: 17 Sep 2025 21:50

Tgt Ion:166 Resp: 11628

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 166 | 100 | | |
| 165 | 100.7 | 79.6 | 119.4 |
| 167 | 13.5 | 10.6 | 16.0 |



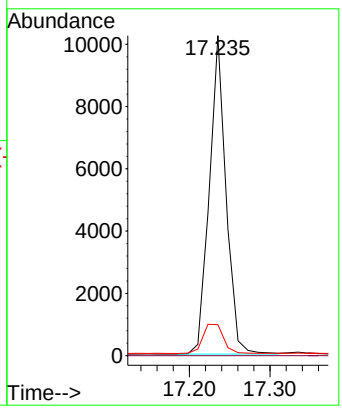


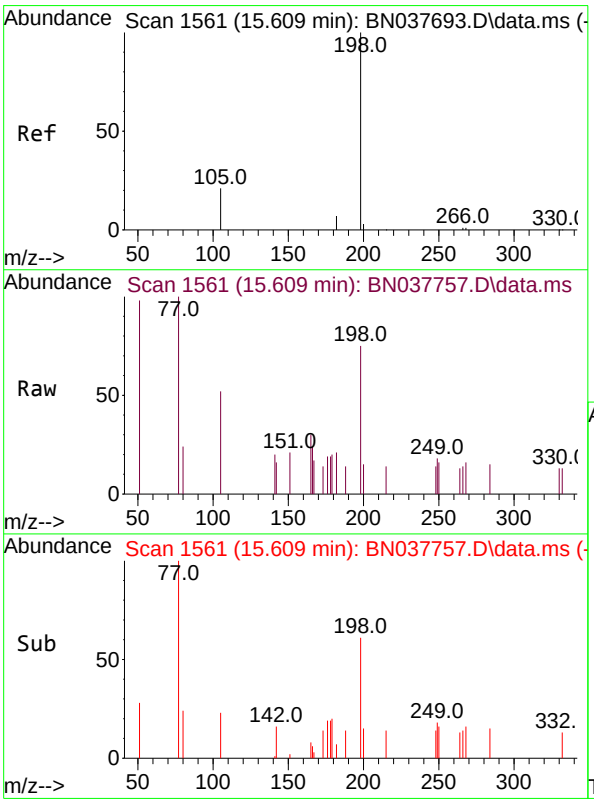

#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.235 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN037757.D
Acq: 17 Sep 2025 21:50

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4EC

Tgt Ion:188 Resp: 14702

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 188 | 100 | | |
| 94 | 0.0 | 0.0 | 0.0 |
| 80 | 9.7 | 10.6 | 15.8# |

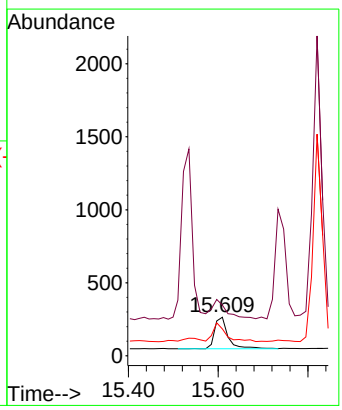


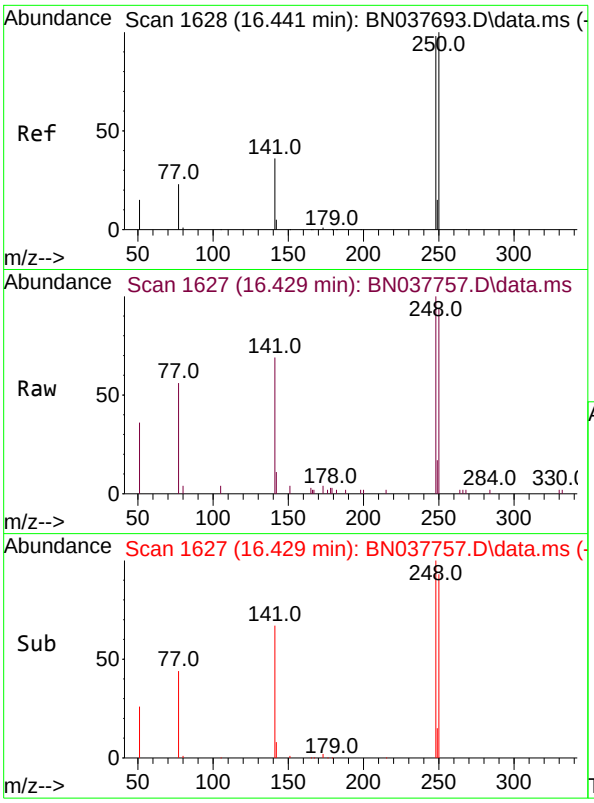




#20
4,6-Dinitro-2-methylphenol
Concen: 0.336 ng
RT: 15.609 min Scan# 1561
Delta R.T. 0.000 min
Lab File: BN037757.D
Acq: 17 Sep 2025 21:50

Tgt Ion:198 Resp: 458

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 198 | 100 | | |
| 51 | 131.8 | 95.1 | 142.7 |
| 105 | 69.7 | 53.8 | 80.6 |



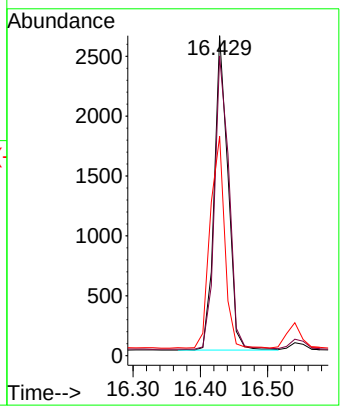


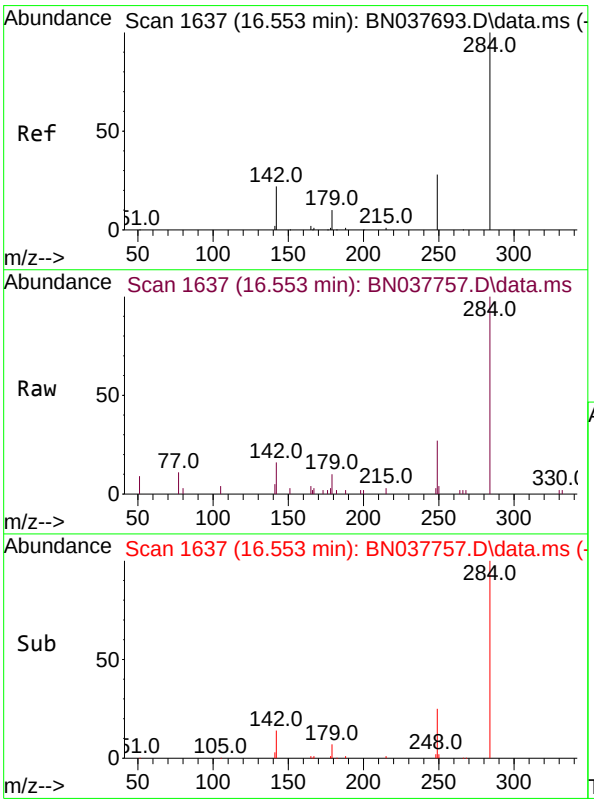

#21
4-Bromophenyl-phenylether
Concen: 0.389 ng
RT: 16.429 min Scan# 1
Delta R.T. -0.012 min
Lab File: BN037757.D
Acq: 17 Sep 2025 21:50

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4EC

Tgt Ion:248 Resp: 3725

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 248 | 100 | | |
| 250 | 93.6 | 81.5 | 122.3 |
| 141 | 68.5 | 30.8 | 46.2# |

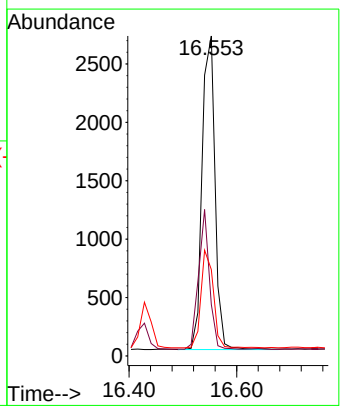


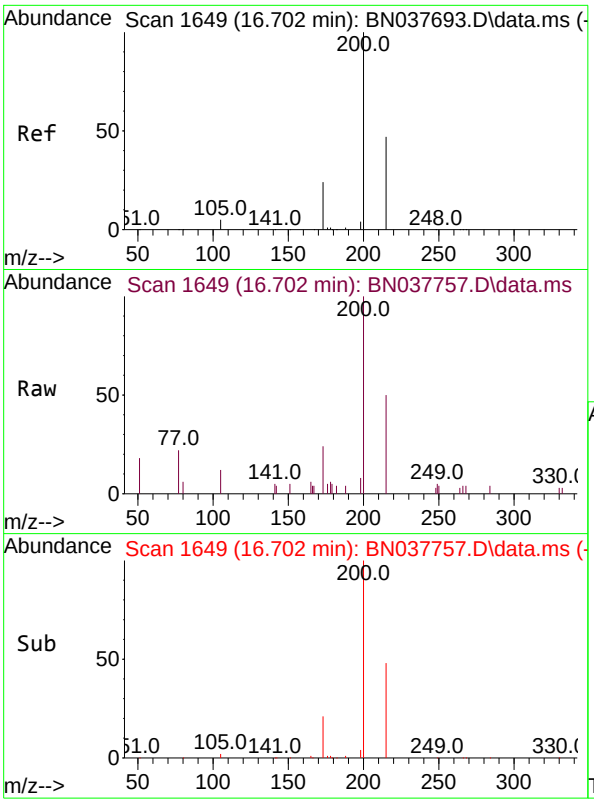




#22
Hexachlorobenzene
Concen: 0.406 ng
RT: 16.553 min Scan# 1637
Delta R.T. -0.000 min
Lab File: BN037757.D
Acq: 17 Sep 2025 21:50

Tgt Ion:284 Resp: 4478

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 284 | 100 | | |
| 142 | 37.5 | 30.9 | 46.3 |
| 249 | 29.8 | 24.8 | 37.2 |



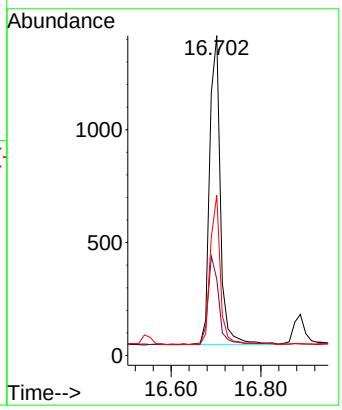


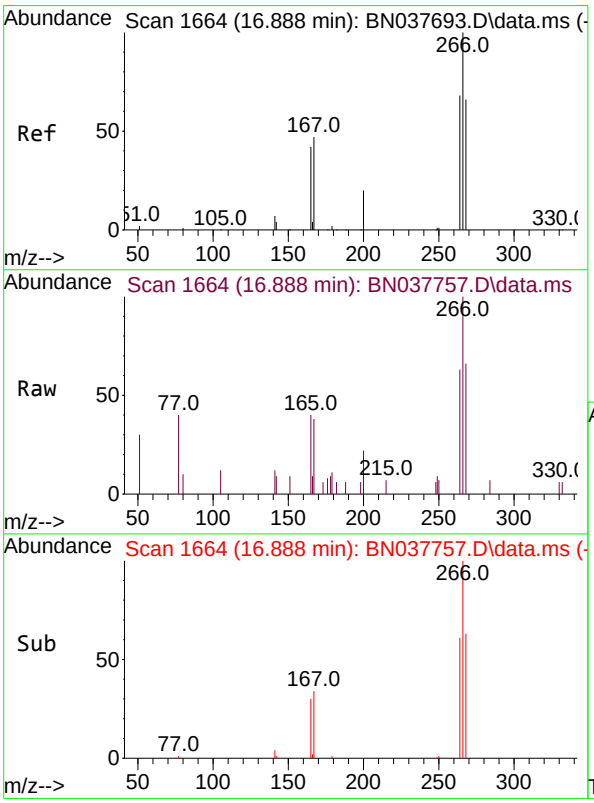

#23
Atrazine
Concen: 0.375 ng
RT: 16.702 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN037757.D
Acq: 17 Sep 2025 21:50

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4EC

Tgt Ion:200 Resp: 2285

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 200 | 100 | | |
| 173 | 23.9 | 21.4 | 32.2 |
| 215 | 50.0 | 39.2 | 58.8 |

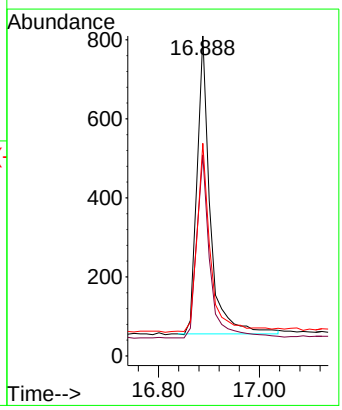


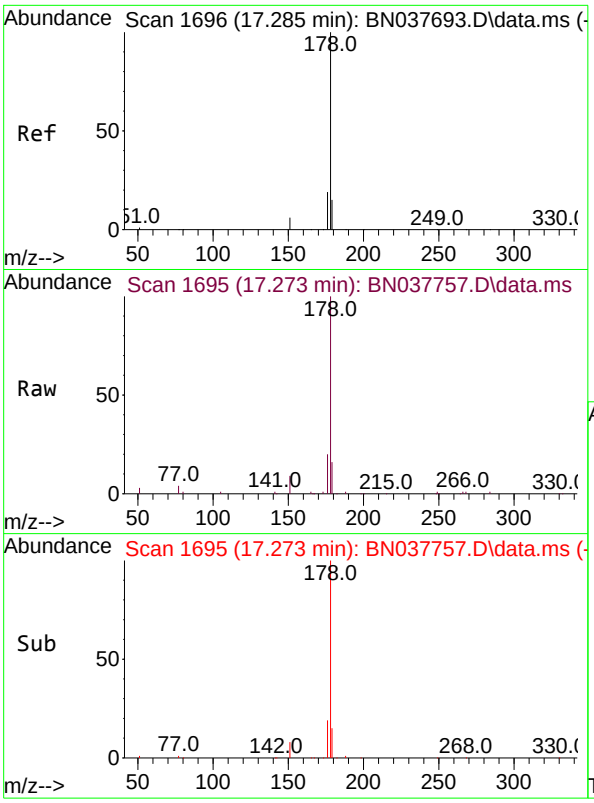




#24
Pentachlorophenol
Concen: 0.422 ng
RT: 16.888 min Scan# 1664
Delta R.T. -0.000 min
Lab File: BN037757.D
Acq: 17 Sep 2025 21:50

Tgt Ion:266 Resp: 1350

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 266 | 100 | | |
| 264 | 62.5 | 51.6 | 77.4 |
| 268 | 65.6 | 53.2 | 79.8 |



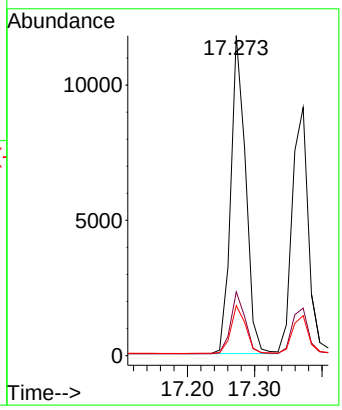


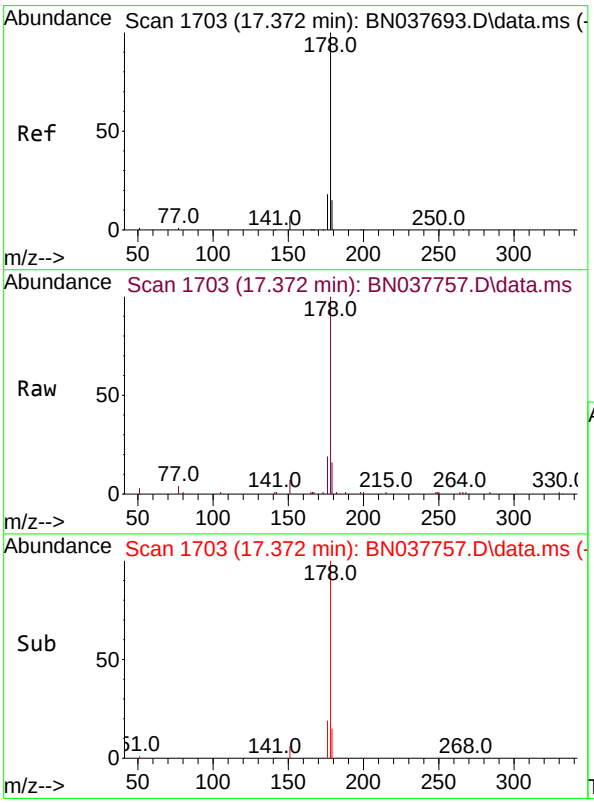

#25
Phenanthrene
Concen: 0.389 ng
RT: 17.273 min Scan# 1
Delta R.T. -0.012 min
Lab File: BN037757.D
Acq: 17 Sep 2025 21:50

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4EC

Tgt Ion:178 Resp: 18027

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 178 | 100 | | |
| 176 | 19.1 | 15.3 | 22.9 |
| 179 | 15.2 | 12.2 | 18.2 |

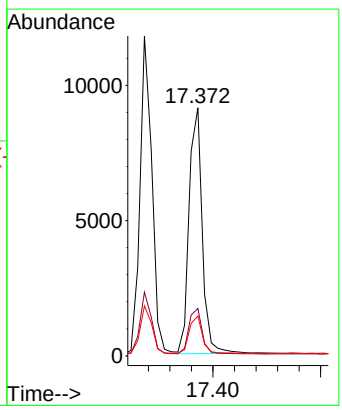


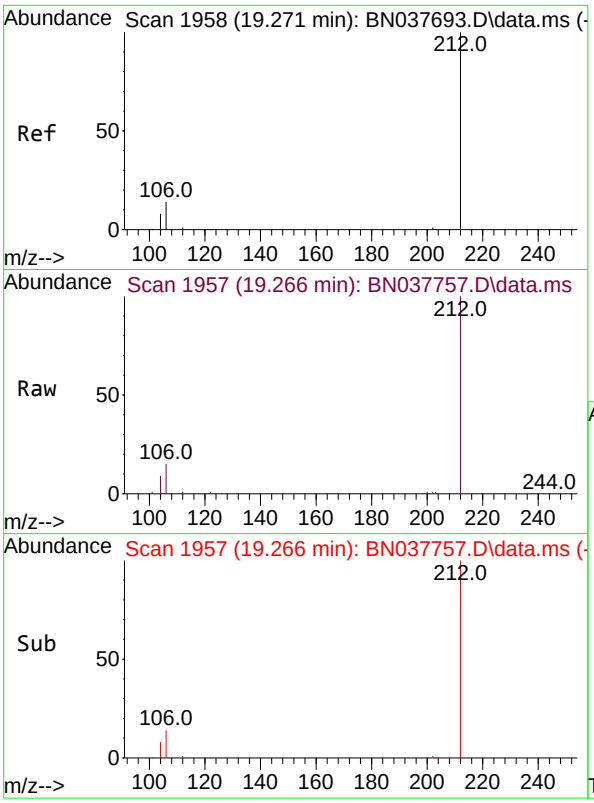




#26
Anthracene
Concen: 0.377 ng
RT: 17.372 min Scan# 1703
Delta R.T. -0.000 min
Lab File: BN037757.D
Acq: 17 Sep 2025 21:50

Tgt Ion:178 Resp: 15467

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 178 | 100 | | |
| 176 | 18.8 | 14.6 | 22.0 |
| 179 | 15.0 | 12.2 | 18.4 |



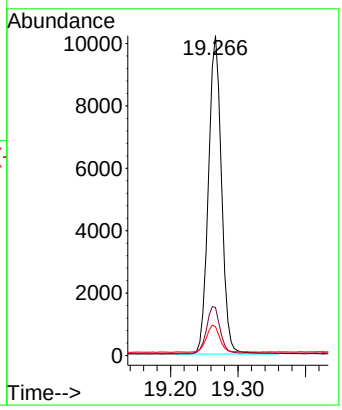


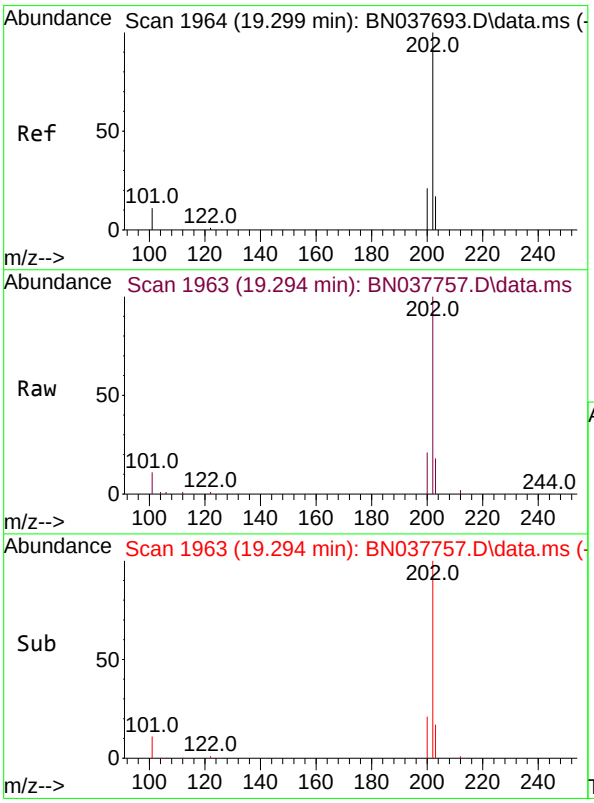

#27
Fluoranthene-d10
Concen: 0.373 ng
RT: 19.266 min Scan# 19
Delta R.T. -0.005 min
Lab File: BN037757.D
Acq: 17 Sep 2025 21:50

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4EC

Tgt Ion:212 Resp: 13764

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 212 | 100 | | |
| 106 | 15.0 | 12.2 | 18.2 |
| 104 | 8.6 | 6.9 | 10.3 |

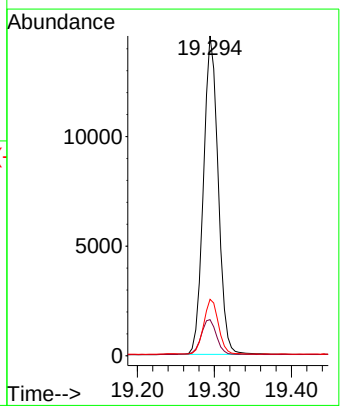


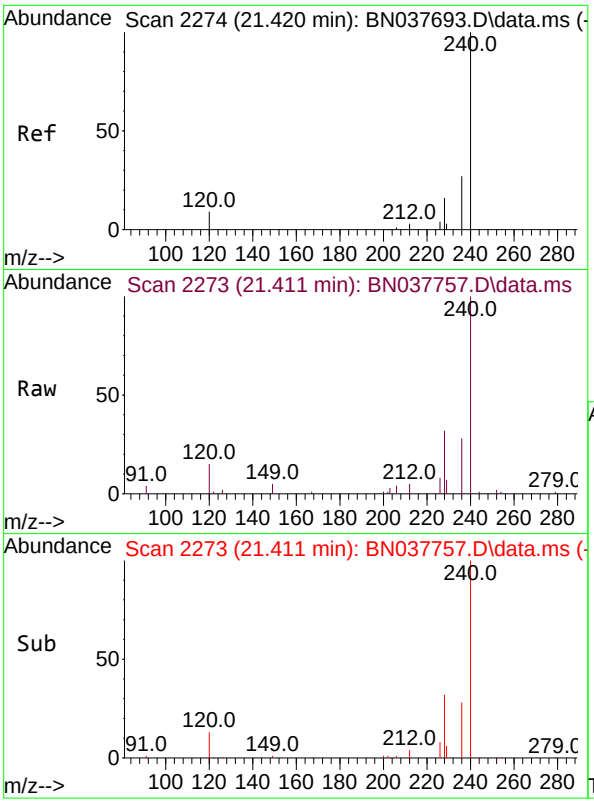




#28
Fluoranthene
Concen: 0.379 ng
RT: 19.294 min Scan# 1963
Delta R.T. -0.005 min
Lab File: BN037757.D
Acq: 17 Sep 2025 21:50

Tgt Ion:202 Resp: 19235

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 202 | 100 | | |
| 101 | 11.7 | 9.3 | 13.9 |
| 203 | 17.3 | 13.7 | 20.5 |



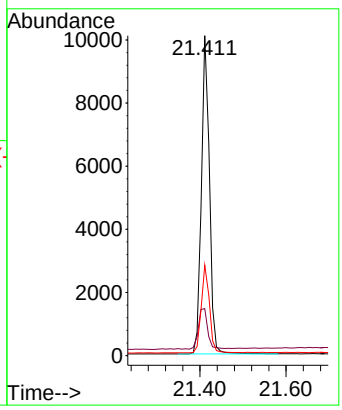


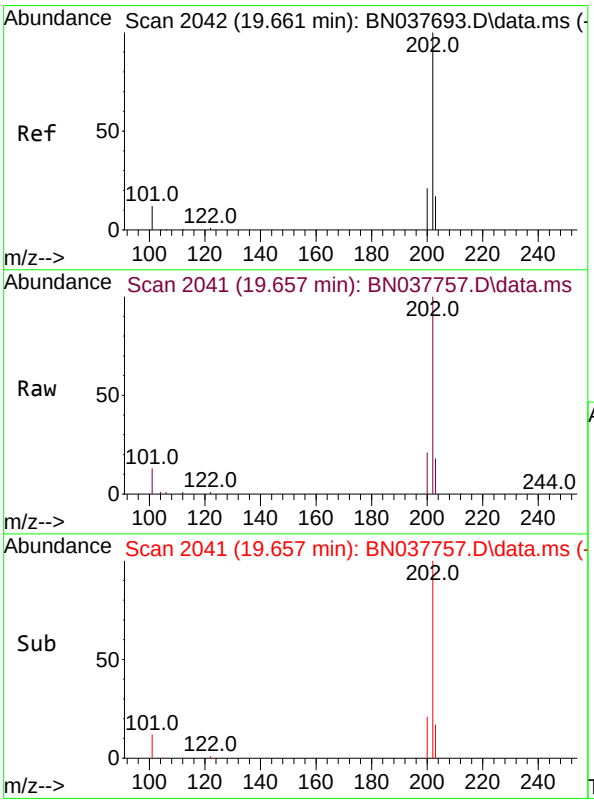

#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.411 min Scan# 2
Delta R.T. -0.009 min
Lab File: BN037757.D
Acq: 17 Sep 2025 21:50

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4EC

Tgt Ion:240 Resp: 12983

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 240 | 100 | | |
| 120 | 14.7 | 9.2 | 13.8# |
| 236 | 28.3 | 22.6 | 33.8 |

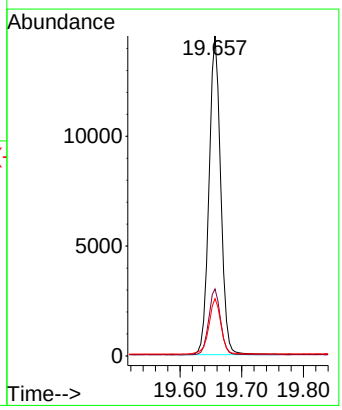


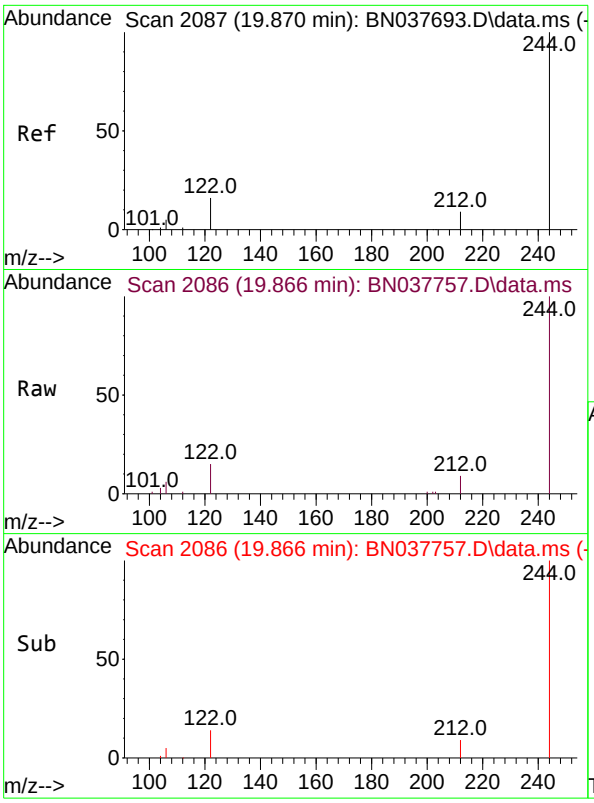




#30
Pyrene
Concen: 0.378 ng
RT: 19.657 min Scan# 2041
Delta R.T. -0.005 min
Lab File: BN037757.D
Acq: 17 Sep 2025 21:50

Tgt Ion:202 Resp: 19188

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 202 | 100 | | |
| 200 | 21.0 | 16.8 | 25.2 |
| 203 | 17.9 | 14.3 | 21.5 |



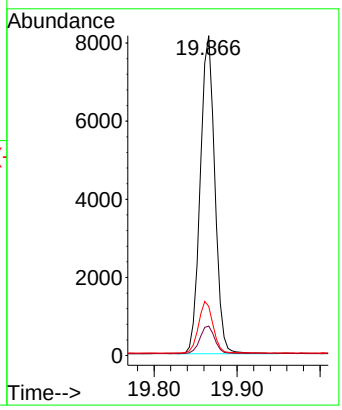


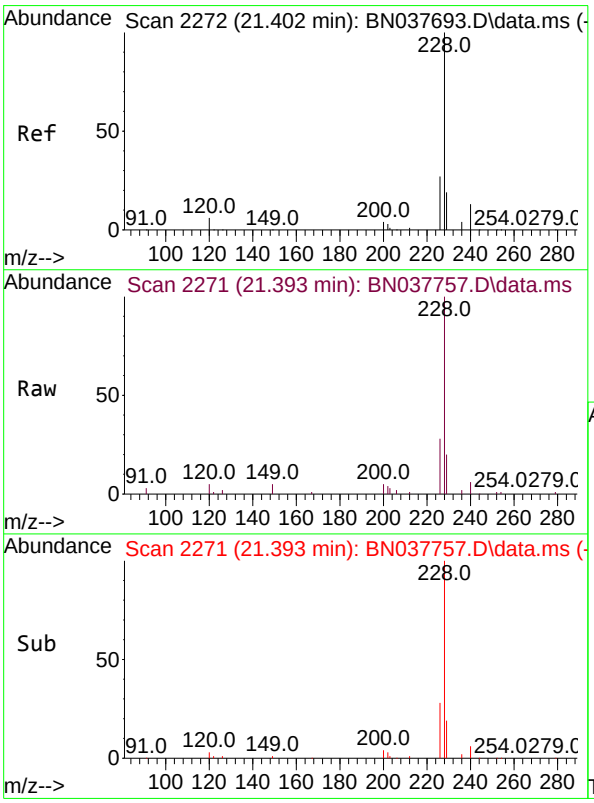

#31
Terphenyl-d14
Concen: 0.375 ng
RT: 19.866 min Scan# 2
Delta R.T. -0.005 min
Lab File: BN037757.D
Acq: 17 Sep 2025 21:50

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4EC

Tgt Ion:244 Resp: 9880

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 244 | 100 | | |
| 212 | 9.2 | 7.5 | 11.3 |
| 122 | 15.4 | 13.2 | 19.8 |

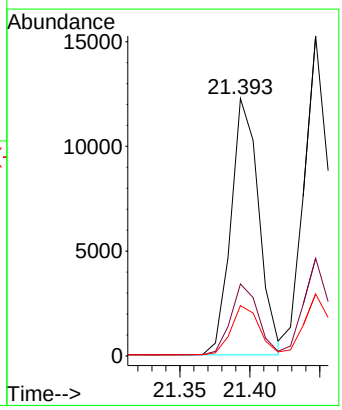


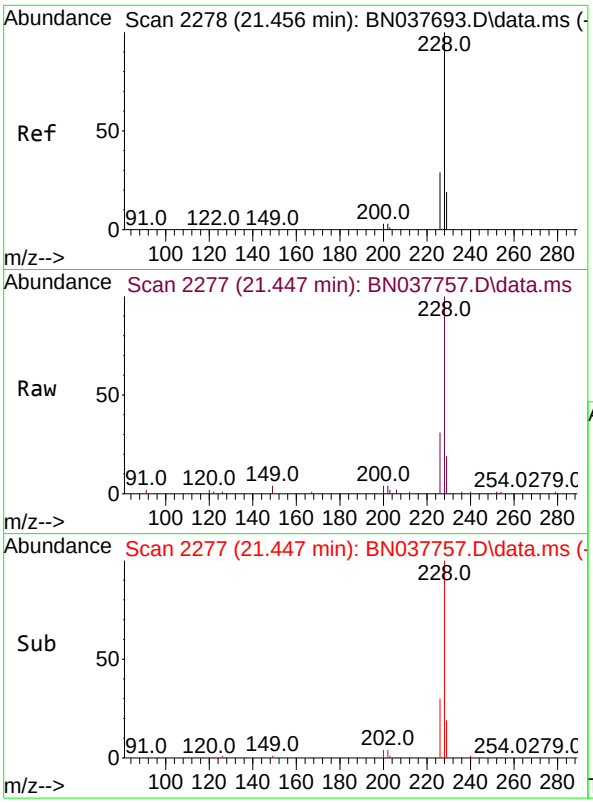




#32
Benzo(a)anthracene
Concen: 0.374 ng
RT: 21.393 min Scan# 2271
Delta R.T. -0.009 min
Lab File: BN037757.D
Acq: 17 Sep 2025 21:50

Tgt Ion:228 Resp: 16951

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 228 | 100 | | |
| 226 | 28.0 | 22.2 | 33.2 |
| 229 | 19.6 | 15.8 | 23.6 |



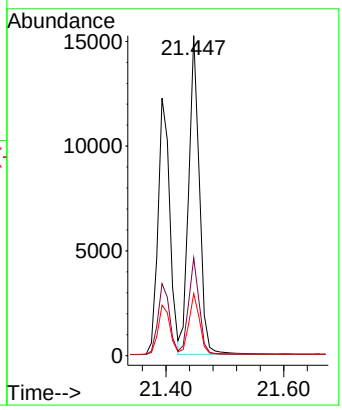


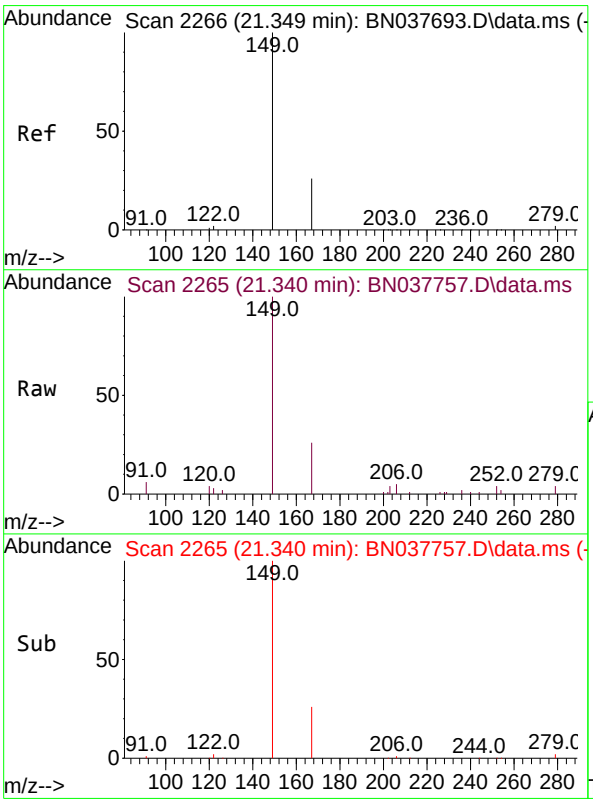

#33
Chrysene
Concen: 0.395 ng
RT: 21.447 min Scan# 2
Delta R.T. -0.009 min
Lab File: BN037757.D
Acq: 17 Sep 2025 21:50

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4EC

Tgt Ion:228 Resp: 19181

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 228 | 100 | | |
| 226 | 30.5 | 23.5 | 35.3 |
| 229 | 19.4 | 15.9 | 23.9 |

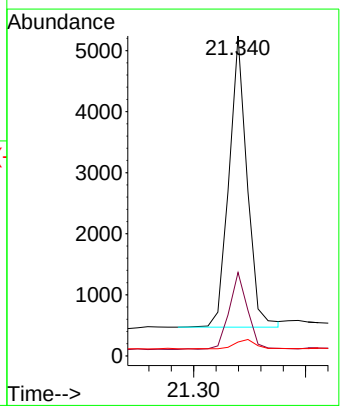


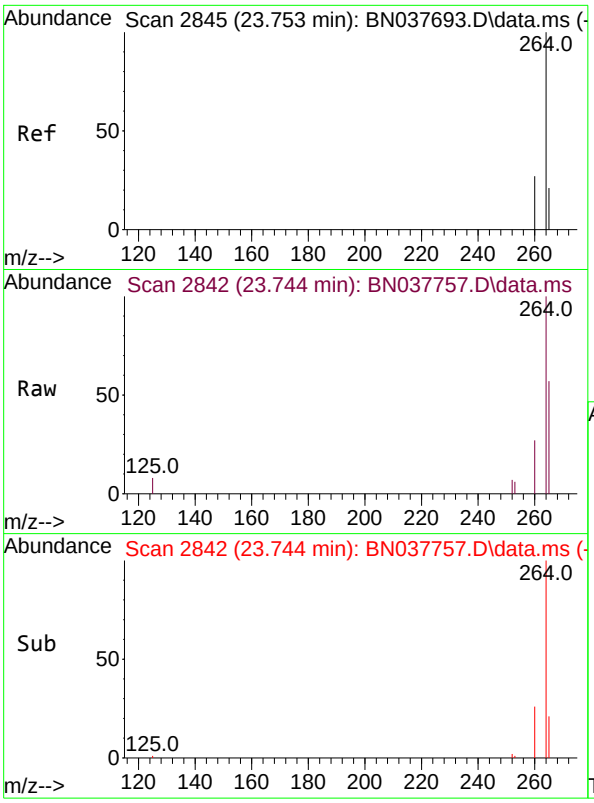




#34
Bis(2-ethylhexyl)phthalate
Concen: 0.399 ng
RT: 21.340 min Scan# 2265
Delta R.T. -0.009 min
Lab File: BN037757.D
Acq: 17 Sep 2025 21:50

Tgt Ion:149 Resp: 5358

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 149 | 100 | | |
| 167 | 26.8 | 20.8 | 31.2 |
| 279 | 3.9 | 3.3 | 4.9 |



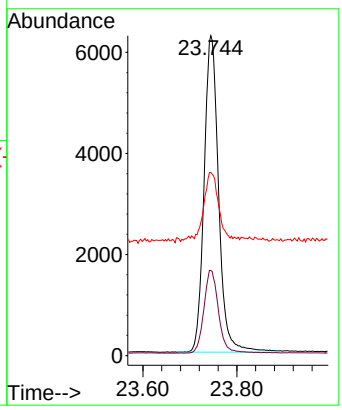


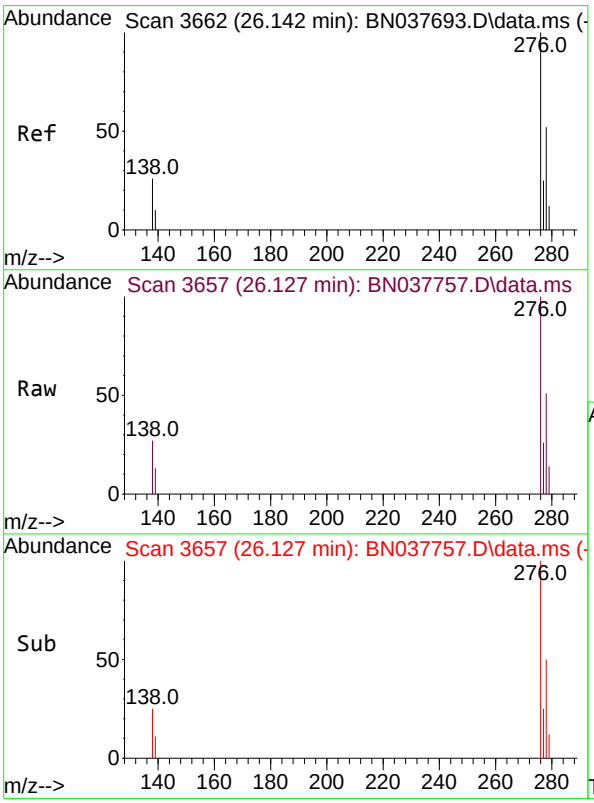

#35
Perylene-d12
Concen: 0.400 ng
RT: 23.744 min Scan# 2
Delta R.T. -0.009 min
Lab File: BN037757.D
Acq: 17 Sep 2025 21:50

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4EC

Tgt Ion:264 Resp: 13482

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 264 | 100 | | |
| 260 | 26.6 | 21.8 | 32.8 |
| 265 | 57.2 | 39.4 | 59.2 |

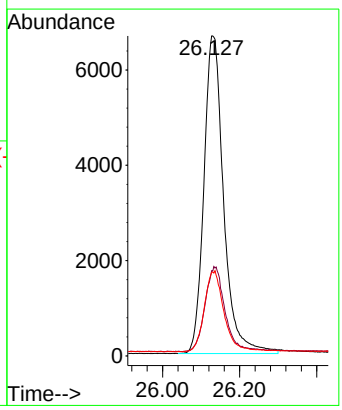


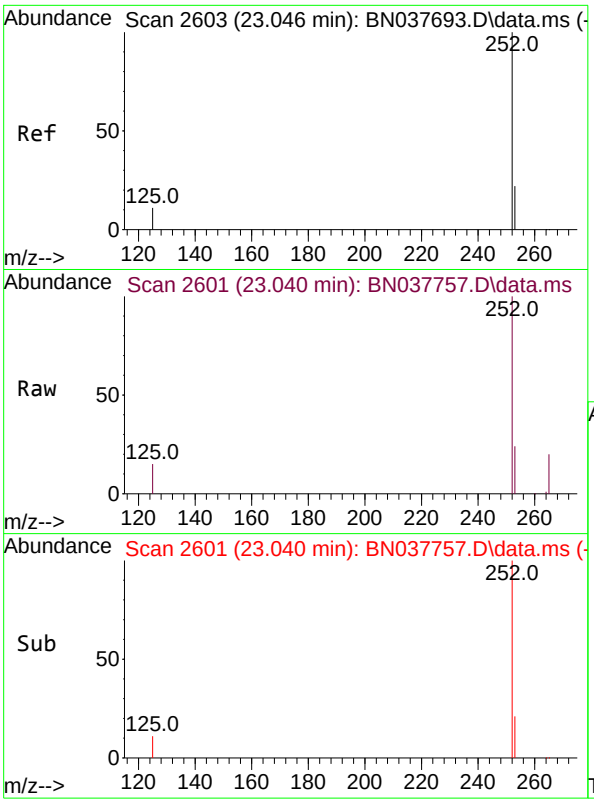




#36
Indeno(1,2,3-cd)pyrene
Concen: 0.420 ng
RT: 26.127 min Scan# 3657
Delta R.T. -0.015 min
Lab File: BN037757.D
Acq: 17 Sep 2025 21:50

Tgt Ion:276 Resp: 23784

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 276 | 100 | | |
| 138 | 27.2 | 21.9 | 32.9 |
| 277 | 25.4 | 20.1 | 30.1 |



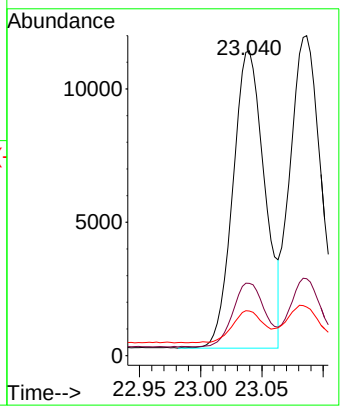


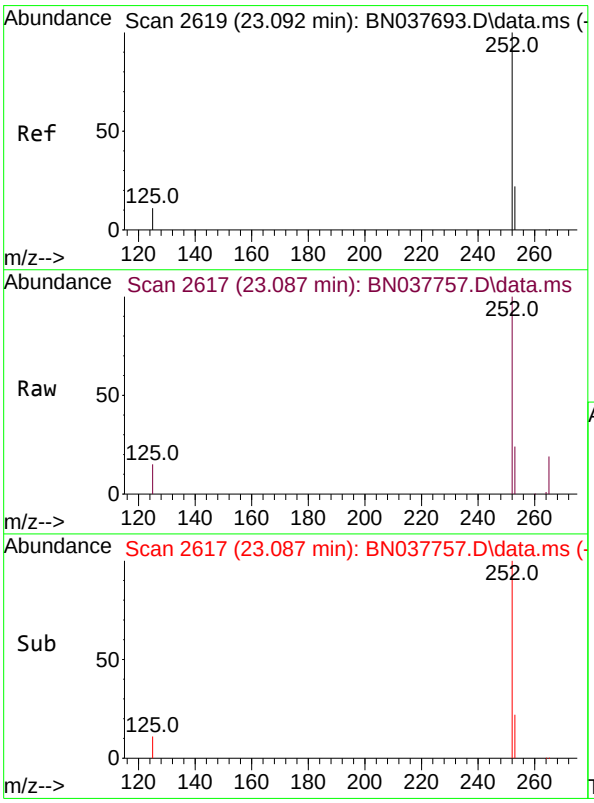

#37
Benzo(b)fluoranthene
Concen: 0.378 ng
RT: 23.040 min Scan# 2
Delta R.T. -0.006 min
Lab File: BN037757.D
Acq: 17 Sep 2025 21:50

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4EC

Tgt Ion:252 Resp: 20070

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 23.7 | 19.4 | 29.2 |
| 125 | 14.6 | 11.2 | 16.8 |

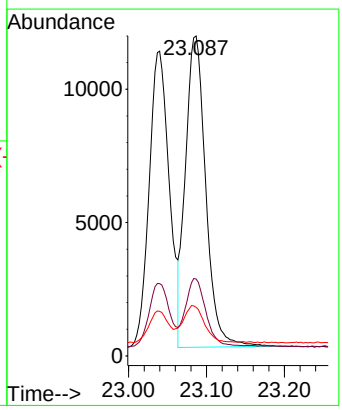


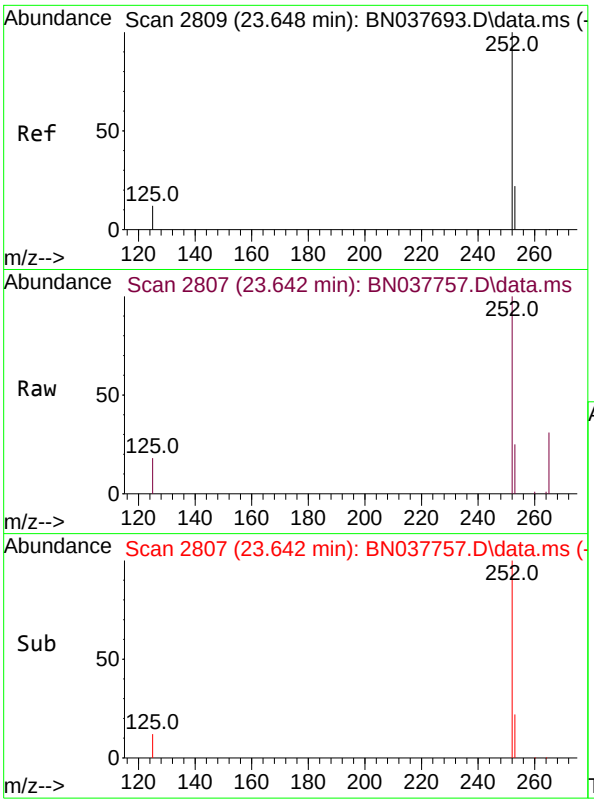




#38
Benzo(k)fluoranthene
Concen: 0.391 ng
RT: 23.087 min Scan# 2617
Delta R.T. -0.006 min
Lab File: BN037757.D
Acq: 17 Sep 2025 21:50

Tgt Ion:252 Resp: 21141

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 24.0 | 19.4 | 29.0 |
| 125 | 15.2 | 11.6 | 17.4 |



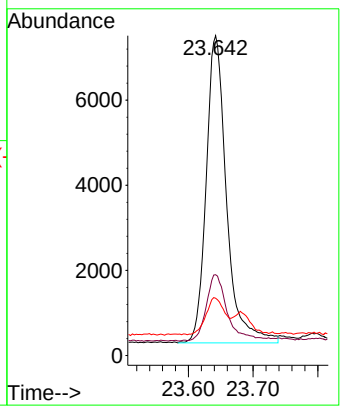


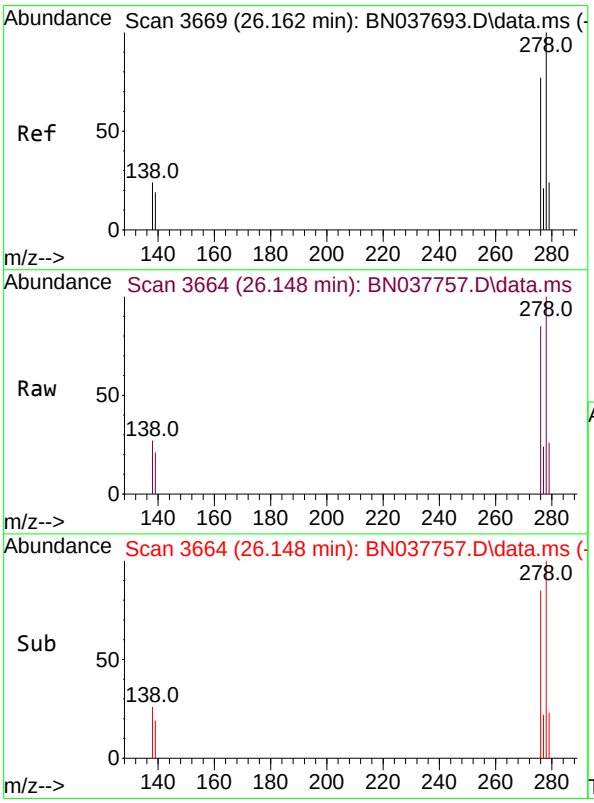

#39
Benzo(a)pyrene
Concen: 0.372 ng
RT: 23.642 min Scan# 28
Delta R.T. -0.006 min
Lab File: BN037757.D
Acq: 17 Sep 2025 21:50

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4EC

Tgt Ion:252 Resp: 15798

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 25.3 | 20.8 | 31.2 |
| 125 | 17.9 | 13.9 | 20.9 |

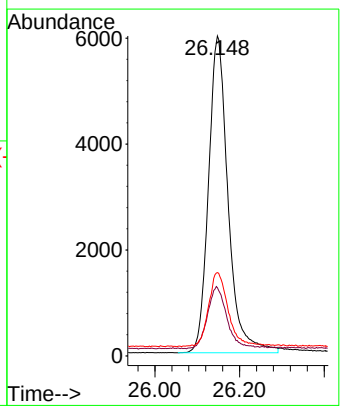


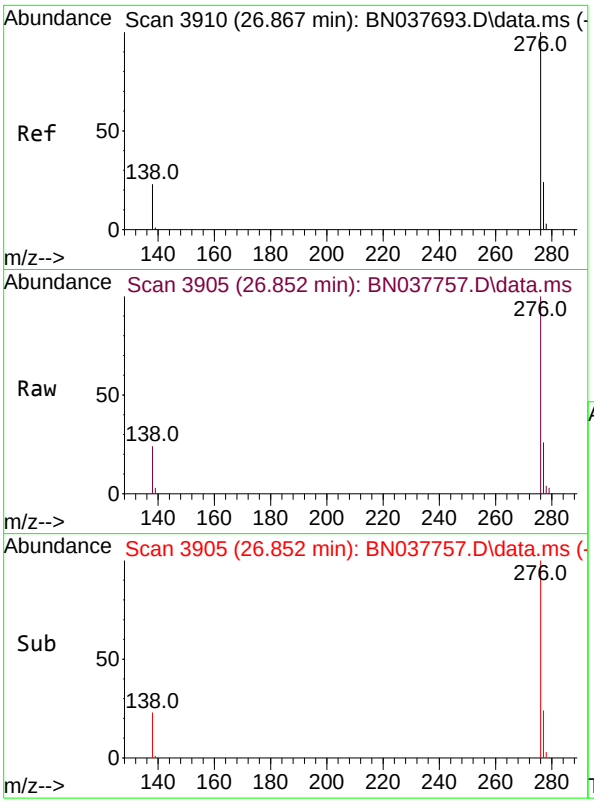




#40
Dibenzo(a,h)anthracene
Concen: 0.425 ng
RT: 26.148 min Scan# 3664
Delta R.T. -0.015 min
Lab File: BN037757.D
Acq: 17 Sep 2025 21:50

Tgt Ion:278 Resp: 19232

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 278 | 100 | | |
| 139 | 21.3 | 17.8 | 26.6 |
| 279 | 26.0 | 22.0 | 33.0 |



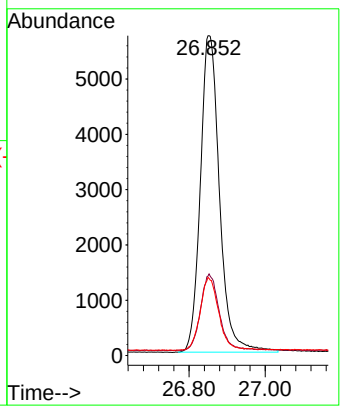



#41
Benzo(g,h,i)perylene
Concen: 0.395 ng
RT: 26.852 min Scan# 3
Delta R.T. -0.015 min
Lab File: BN037757.D
Acq: 17 Sep 2025 21:50

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4EC

Tgt Ion:276 Resp: 20047

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 276 | 100 | | |
| 277 | 25.5 | 20.6 | 31.0 |
| 138 | 24.1 | 20.2 | 30.2 |



Sample Results: **BN037757.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN091725\
Data File : BN037757.D
Acq On : 17 Sep 2025 21:50
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 19 Sample Multiplier: 1

**Instrument :**
BNA_N
**LabSampleId :**
SSTDCCC0.4

Quant Time: Sep 18 05:02:02 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN091125.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Sep 11 14:20:01 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 | 133 | 0.00 |
| 2 | | 1,4-Dioxane | 0.417 | 0.432 | -3.6 | 136 | 0.00 |
| 3 | | n-Nitrosodimethylamine | 0.544 | 0.523 | 3.9 | 123 | 0.00 |
| 4 | S | 2-Fluorophenol | 0.918 | 0.971 | -5.8 | 145 | 0.00 |
| 5 | S | Phenol-d6 | 1.191 | 1.159 | 2.7 | 133 | 0.00 |
| 6 | | bis(2-Chloroethyl)ether | 1.064 | 1.050 | 1.3 | 130 | 0.00 |
| 7 | I | Naphthalene-d8 | 1.000 | 1.000 | 0.0 | 134 | -0.01 |
| 8 | S | Nitrobenzene-d5 | 0.293 | 0.283 | 3.4 | 134 | -0.01 |
| 9 | | Naphthalene | 1.093 | 1.066 | 2.5 | 133 | 0.00 |
| 10 | | Hexachlorobutadiene | 0.198 | 0.193 | 2.5 | 131 | -0.01 |
| 11 | SURR | 2-Methylnaphthalene-d10 | 0.530 | 0.503 | 5.1 | 136 | -0.01 |
| 12 | | 2-Methylnaphthalene | 0.676 | 0.651 | 3.7 | 133 | 0.00 |
| 13 | I | Acenaphthene-d10 | 1.000 | 1.000 | 0.0 | 133 | -0.01 |
| 14 | S | 2,4,6-Tribromophenol | 0.104 | 0.122 | -17.3 | 161# | 0.00 |
| 15 | S | 2-Fluorobiphenyl | 1.673 | 1.646 | 1.6 | 133 | 0.00 |
| 16 | | Acenaphthylene | 1.834 | 1.732 | 5.6 | 129 | 0.00 |
| 17 | | Acenaphthene | 1.240 | 1.185 | 4.4 | 130 | -0.01 |
| 18 | | Fluorene | 1.502 | 1.409 | 6.2 | 130 | 0.00 |
| 19 | I | Phenanthrene-d10 | 1.000 | 1.000 | 0.0 | 131 | 0.00 |
| 20 | | 4,6-Dinitro-2-methylphenol | 0.037 | 0.031 | 16.2 | 123 | 0.00 |
| 21 | | 4-Bromophenyl-phenylether | 0.261 | 0.253 | 3.1 | 132 | -0.01 |
| 22 | | Hexachlorobenzene | 0.300 | 0.305 | -1.7 | 135 | 0.00 |
| 23 | | Atrazine | 0.166 | 0.155 | 6.6 | 134 | 0.00 |
| 24 | | Pentachlorophenol | 0.087 | 0.092 | -5.7 | 161# | 0.00 |
| 25 | | Phenanthrene | 1.259 | 1.226 | 2.6 | 131 | -0.01 |
| 26 | | Anthracene | 1.116 | 1.052 | 5.7 | 128 | 0.00 |
| 27 | SURR | Fluoranthene-d10 | 1.004 | 0.936 | 6.8 | 131 | 0.00 |
| 28 | | Fluoranthene | 1.381 | 1.308 | 5.3 | 130 | 0.00 |
| 29 | I | Chrysene-d12 | 1.000 | 1.000 | 0.0 | 139 | 0.00 |
| 30 | | Pyrene | 1.566 | 1.478 | 5.6 | 132 | 0.00 |
| 31 | S | Terphenyl-d14 | 0.812 | 0.761 | 6.3 | 132 | 0.00 |
| 32 | | Benzo(a)anthracene | 1.395 | 1.306 | 6.4 | 134 | 0.00 |
| 33 | | Chrysene | 1.496 | 1.477 | 1.3 | 137 | 0.00 |
| 34 | | Bis(2-ethylhexyl)phthalate | 0.414 | 0.413 | 0.2 | 152# | 0.00 |
| 35 | I | Perylene-d12 | 1.000 | 1.000 | 0.0 | 150# | 0.00 |
| 36 | | Indeno(1,2,3-cd)pyrene | 1.681 | 1.764 | -4.9 | 172# | -0.01 |
| 37 | | Benzo(b)fluoranthene | 1.575 | 1.489 | 5.5 | 144 | 0.00 |
| 38 | | Benzo(k)fluoranthene | 1.606 | 1.568 | 2.4 | 155# | 0.00 |
| 39 | C | Benzo(a)pyrene | 1.261 | 1.172 | 7.1 | 147 | 0.00 |
| 40 | | Dibenzo(a,h)anthracene | 1.342 | 1.426 | -6.3 | 177# | -0.01 |
| 41 | | Benzo(g,h,i)perylene | 1.506 | 1.487 | 1.3 | 154# | -0.01 |

(#) = Out of Range SPCC's out = 0 CCC's out = 0

**Instrument :**
BNA_N
**LabSampleId :**
SSTDCCC0.4

Sample Results: **BN037757.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN091725\
Data File : BN037757.D
Acq On : 17 Sep 2025 21:50
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 19 Sample Multiplier: 1

**Instrument :**
BNA_N
**LabSampleId :**
SSTDCCC0.4

Quant Time: Sep 18 05:02:02 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN091125.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Sep 11 14:20:01 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 | 133 | 0.00 |
| 2 | | 1,4-Dioxane | 0.400 | 0.414 | -3.5 | 136 | 0.00 |
| 3 | | n-Nitrosodimethylamine | 0.400 | 0.384 | 4.0 | 123 | 0.00 |
| 4 | S | 2-Fluorophenol | 0.400 | 0.423 | -5.7 | 145 | 0.00 |
| 5 | S | Phenol-d6 | 0.400 | 0.389 | 2.8 | 133 | 0.00 |
| 6 | | bis(2-Chloroethyl)ether | 0.400 | 0.395 | 1.3 | 130 | 0.00 |
| 7 | I | Naphthalene-d8 | 0.400 | 0.400 | 0.0 | 134 | -0.01 |
| 8 | S | Nitrobenzene-d5 | 0.400 | 0.386 | 3.5 | 134 | -0.01 |
| 9 | | Naphthalene | 0.400 | 0.390 | 2.5 | 133 | 0.00 |
| 10 | | Hexachlorobutadiene | 0.400 | 0.390 | 2.5 | 131 | -0.01 |
| 11 | SURR | 2-Methylnaphthalene-d10 | 0.400 | 0.380 | 5.0 | 136 | -0.01 |
| 12 | | 2-Methylnaphthalene | 0.400 | 0.385 | 3.8 | 133 | 0.00 |
| 13 | I | Acenaphthene-d10 | 0.400 | 0.400 | 0.0 | 133 | -0.01 |
| 14 | S | 2,4,6-Tribromophenol | 0.400 | 0.467 | -16.8 | 161 | 0.00 |
| 15 | S | 2-Fluorobiphenyl | 0.400 | 0.394 | 1.5 | 133 | 0.00 |
| 16 | | Acenaphthylene | 0.400 | 0.378 | 5.5 | 129 | 0.00 |
| 17 | | Acenaphthene | 0.400 | 0.382 | 4.5 | 130 | -0.01 |
| 18 | | Fluorene | 0.400 | 0.375 | 6.3 | 130 | 0.00 |
| 19 | I | Phenanthrene-d10 | 0.400 | 0.400 | 0.0 | 131 | 0.00 |
| 20 | | 4,6-Dinitro-2-methylphenol | 0.400 | 0.336 | 16.0 | 123 | 0.00 |
| 21 | | 4-Bromophenyl-phenylether | 0.400 | 0.389 | 2.8 | 132 | -0.01 |
| 22 | | Hexachlorobenzene | 0.400 | 0.406 | -1.5 | 135 | 0.00 |
| 23 | | Atrazine | 0.400 | 0.375 | 6.3 | 134 | 0.00 |
| 24 | | Pentachlorophenol | 0.400 | 0.422 | -5.5 | 161 | 0.00 |
| 25 | | Phenanthrene | 0.400 | 0.389 | 2.8 | 131 | -0.01 |
| 26 | | Anthracene | 0.400 | 0.377 | 5.8 | 128 | 0.00 |
| 27 | SURR | Fluoranthene-d10 | 0.400 | 0.373 | 6.8 | 131 | 0.00 |
| 28 | | Fluoranthene | 0.400 | 0.379 | 5.3 | 130 | 0.00 |
| 29 | I | Chrysene-d12 | 0.400 | 0.400 | 0.0 | 139 | 0.00 |
| 30 | | Pyrene | 0.400 | 0.378 | 5.5 | 132 | 0.00 |
| 31 | S | Terphenyl-d14 | 0.400 | 0.375 | 6.3 | 132 | 0.00 |
| 32 | | Benzo(a)anthracene | 0.400 | 0.374 | 6.5 | 134 | 0.00 |
| 33 | | Chrysene | 0.400 | 0.395 | 1.3 | 137 | 0.00 |
| 34 | | Bis(2-ethylhexyl)phthalate | 0.400 | 0.399 | 0.3 | 152 | 0.00 |
| 35 | I | Perylene-d12 | 0.400 | 0.400 | 0.0 | 150 | 0.00 |
| 36 | | Indeno(1,2,3-cd)pyrene | 0.400 | 0.420 | -5.0 | 172 | -0.01 |
| 37 | | Benzo(b)fluoranthene | 0.400 | 0.378 | 5.5 | 144 | 0.00 |
| 38 | | Benzo(k)fluoranthene | 0.400 | 0.391 | 2.3 | 155 | 0.00 |
| 39 | C | Benzo(a)pyrene | 0.400 | 0.372 | 7.0 | 147 | 0.00 |
| 40 | | Dibenzo(a,h)anthracene | 0.400 | 0.425 | -6.2 | 177 | -0.01 |
| 41 | | Benzo(g,h,i)perylene | 0.400 | 0.395 | 1.3 | 154 | -0.01 |

(#) = Out of Range SPCC's out = 0 CCC's out = 0

**Instrument :**
BNA_N
**LabSampleId :**
SSTDCCC0.4

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

7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: Alliance Contract: AECO15

Lab Code: ACE SDG No.: Q3095

Instrument ID: BNA_N Calibration Date/Time: 09/18/2025 02:46

Lab File ID: BN037759.D Init. Calib. Date(s): 09/11/2025 09/11/2025

EPA Sample No.: SSTDCCC0.4 Init. Calib. Time(s): 09:56 13:33

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

| COMPOUND | RRF | RRF0.4 | MIN RRF | %D | MAX%D |
|---|---|---|---|---|---|
| 2-Methylnaphthalene-d10 | 0.530 | 0.511 | | -3.6 | 20.0 |
| Fluoranthene-d10 | 1.004 | 0.949 | | -5.5 | 20.0 |
| 2-Fluorophenol | 0.918 | 0.939 | | 2.3 | 20.0 |
| Phenol-d6 | 1.191 | 1.179 | | -1.0 | 20.0 |
| Nitrobenzene-d5 | 0.293 | 0.286 | | -2.4 | 20.0 |
| 2-Fluorobiphenyl | 1.673 | 1.646 | | -1.6 | 20.0 |
| 2,4,6-Tribromophenol | 0.104 | 0.120 | | 15.4 | 20.0 |
| Terphenyl-d14 | 0.812 | 0.735 | | -9.5 | 20.0 |
| 1,4-Dioxane | 0.417 | 0.432 | | 3.6 | 20.0 |

All other compounds must meet a minimum RRF of 0.010.

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN091725\
Data File : BN037759.D
Acq On : 18 Sep 2025 02:46
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 20 Sample Multiplier: 1

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4

Quant Time: Sep 18 05:02:26 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN091125.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Sep 11 14:20:01 2025
Response via : Initial Calibration

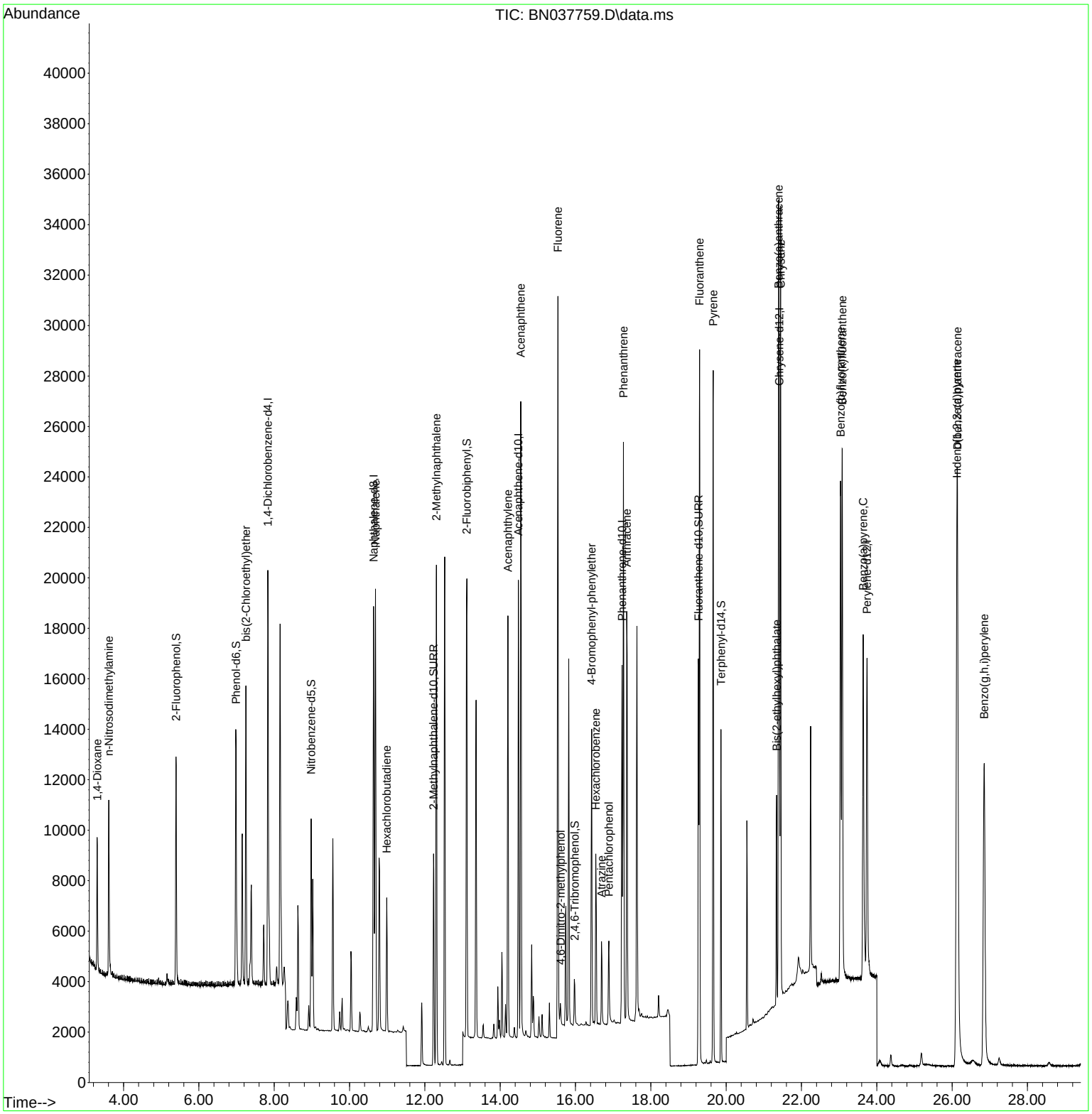
| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| Internal Standards | | | | | | | |
| 1) 1,4-Dichlorobenzene-d4 | 7.833 | 152 | 8012 | 0.400 | ng | | 0.00 |
| 7) Naphthalene-d8 | 10.637 | 136 | 21664 | 0.400 | ng | | -0.01 |
| 13) Acenaphthene-d10 | 14.484 | 164 | 10192 | 0.400 | ng | | -0.01 |
| 19) Phenanthrene-d10 | 17.235 | 188 | 18613 | 0.400 | ng | # | 0.00 |
| 29) Chrysene-d12 | 21.411 | 240 | 16797 | 0.400 | ng | | 0.00 |
| 35) Perylene-d12 | 23.741 | 264 | 18043 | 0.400 | ng | | -0.01 |
| System Monitoring Compounds | | | | | | | |
| 4) 2-Fluorophenol | 5.399 | 112 | 7521 | 0.409 | ng | | 0.00 |
| 5) Phenol-d6 | 6.988 | 99 | 9450 | 0.396 | ng | | 0.00 |
| 8) Nitrobenzene-d5 | 8.982 | 82 | 6195 | 0.391 | ng | | -0.01 |
| 11) 2-Methylnaphthalene-d10 | 12.233 | 152 | 11065 | 0.386 | ng | | -0.01 |
| 14) 2,4,6-Tribromophenol | 15.982 | 330 | 1222 | 0.460 | ng | | 0.00 |
| 15) 2-Fluorobiphenyl | 13.115 | 172 | 16772 | 0.393 | ng | | 0.00 |
| 27) Fluoranthene-d10 | 19.267 | 212 | 17669 | 0.378 | ng | | 0.00 |
| 31) Terphenyl-d14 | 19.861 | 244 | 12341 | 0.362 | ng | | 0.00 |
| Target Compounds | | | | | | | Qvalue |
| 2) 1,4-Dioxane | 3.304 | 88 | 3460 | 0.415 | ng | | 95 |
| 3) n-Nitrosodimethylamine | 3.608 | 42 | 4100 | 0.376 | ng | | 91 |
| 6) bis(2-Chloroethyl)ether | 7.248 | 93 | 8459 | 0.397 | ng | | 99 |
| 9) Naphthalene | 10.690 | 128 | 23012 | 0.389 | ng | | 99 |
| 10) Hexachlorobutadiene | 10.989 | 225 | 4127 | 0.385 | ng | # | 99 |
| 12) 2-Methylnaphthalene | 12.309 | 142 | 14242 | 0.389 | ng | | 98 |
| 16) Acenaphthylene | 14.206 | 152 | 17762 | 0.380 | ng | | 99 |
| 17) Acenaphthene | 14.548 | 154 | 12273 | 0.388 | ng | | 99 |
| 18) Fluorene | 15.535 | 166 | 14482 | 0.378 | ng | | 99 |
| 20) 4,6-Dinitro-2-methylph... | 15.609 | 198 | 576 | 0.334 | ng | | 95 |
| 21) 4-Bromophenyl-phenylether | 16.429 | 248 | 4671 | 0.385 | ng | # | 84 |
| 22) Hexachlorobenzene | 16.540 | 284 | 5435 | 0.389 | ng | | 99 |
| 23) Atrazine | 16.689 | 200 | 2899 | 0.375 | ng | # | 92 |
| 24) Pentachlorophenol | 16.888 | 266 | 1908 | 0.471 | ng | | 98 |
| 25) Phenanthrene | 17.273 | 178 | 22675 | 0.387 | ng | | 100 |
| 26) Anthracene | 17.360 | 178 | 19975 | 0.385 | ng | | 99 |
| 28) Fluoranthene | 19.294 | 202 | 24904 | 0.387 | ng | | 99 |
| 30) Pyrene | 19.657 | 202 | 24982 | 0.380 | ng | | 100 |
| 32) Benzo(a)anthracene | 21.393 | 228 | 22983 | 0.392 | ng | | 100 |
| 33) Chrysene | 21.447 | 228 | 24936 | 0.397 | ng | | 99 |
| 34) Bis(2-ethylhexyl)phtha... | 21.340 | 149 | 7755 | 0.446 | ng | | 99 |
| 36) Indeno(1,2,3-cd)pyrene | 26.124 | 276 | 32683 | 0.431 | ng | | 99 |
| 37) Benzo(b)fluoranthene | 23.037 | 252 | 27058 | 0.381 | ng | | 99 |
| 38) Benzo(k)fluoranthene | 23.084 | 252 | 28281 | 0.390 | ng | | 99 |
| 39) Benzo(a)pyrene | 23.639 | 252 | 21959 | 0.386 | ng | | 98 |
| 40) Dibenzo(a,h)anthracene | 26.142 | 278 | 26135 | 0.432 | ng | | 97 |
| 41) Benzo(g,h,i)perylene | 26.852 | 276 | 27338 | 0.403 | ng | | 97 |

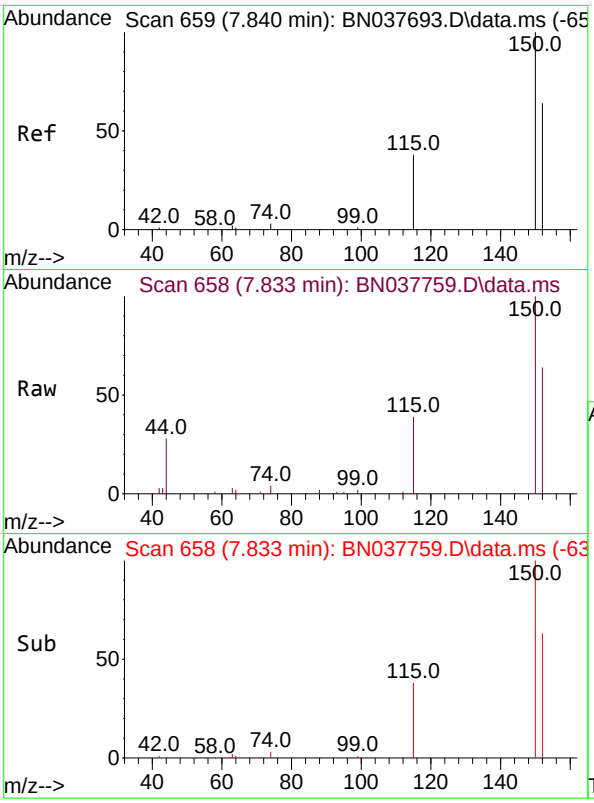
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN091725\
Data File : BN037759.D
Acq On : 18 Sep 2025 02:46
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 20 Sample Multiplier: 1

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4

Quant Time: Sep 18 05:02:26 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN091125.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Sep 11 14:20:01 2025
Response via : Initial Calibration



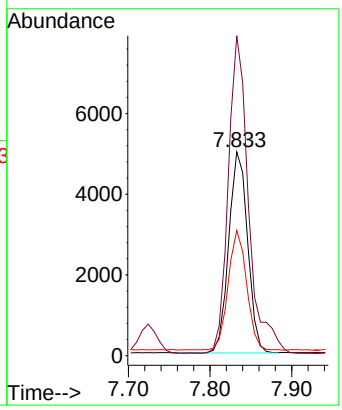


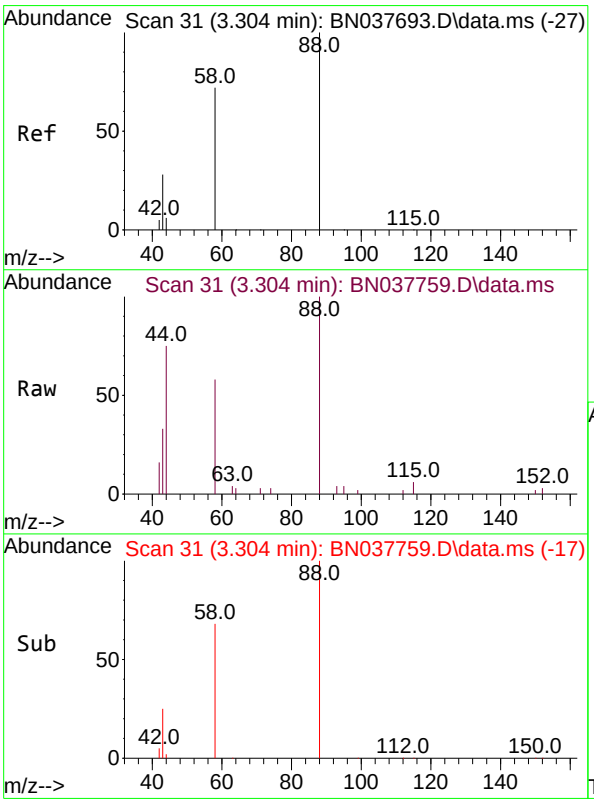

#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.833 min Scan# 6
Delta R.T. -0.007 min
Lab File: BN037759.D
Acq: 18 Sep 2025 02:46

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4

Tgt Ion:152 Resp: 8012

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 150 | 157.1 | 124.5 | 186.7 |
| 115 | 61.4 | 49.2 | 73.8 |

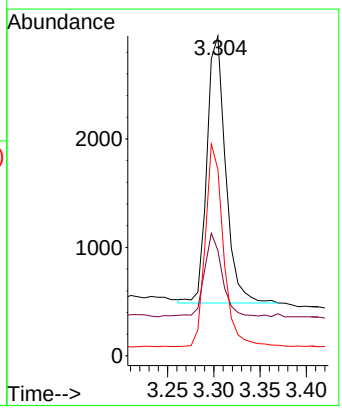


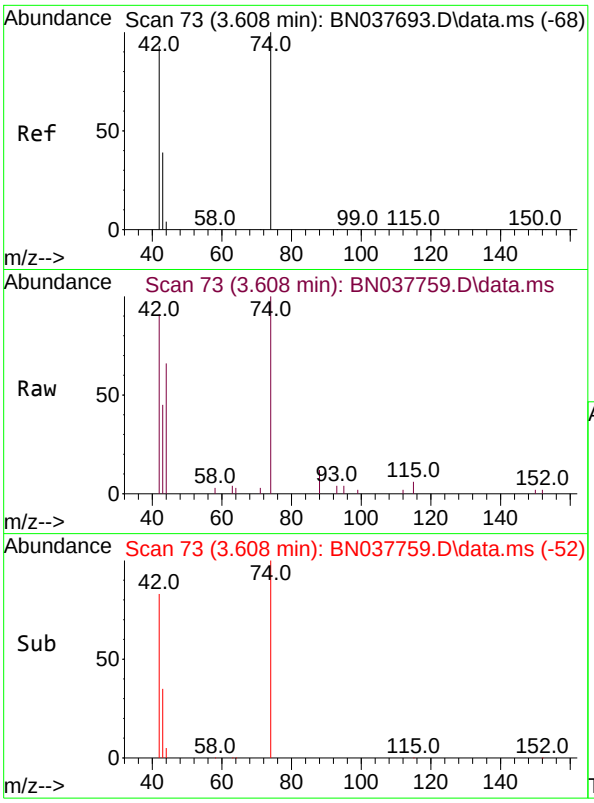




#2
1,4-Dioxane
Concen: 0.415 ng
RT: 3.304 min Scan# 31
Delta R.T. -0.000 min
Lab File: BN037759.D
Acq: 18 Sep 2025 02:46

Tgt Ion: 88 Resp: 3460

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 88 | 100 | | |
| 43 | 29.8 | 26.8 | 40.2 |
| 58 | 73.4 | 61.9 | 92.9 |



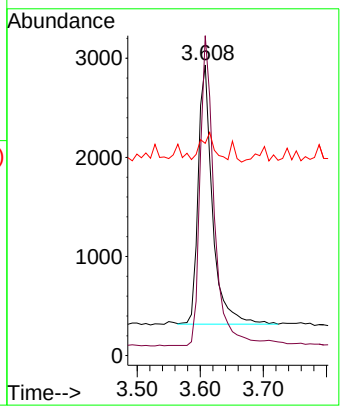


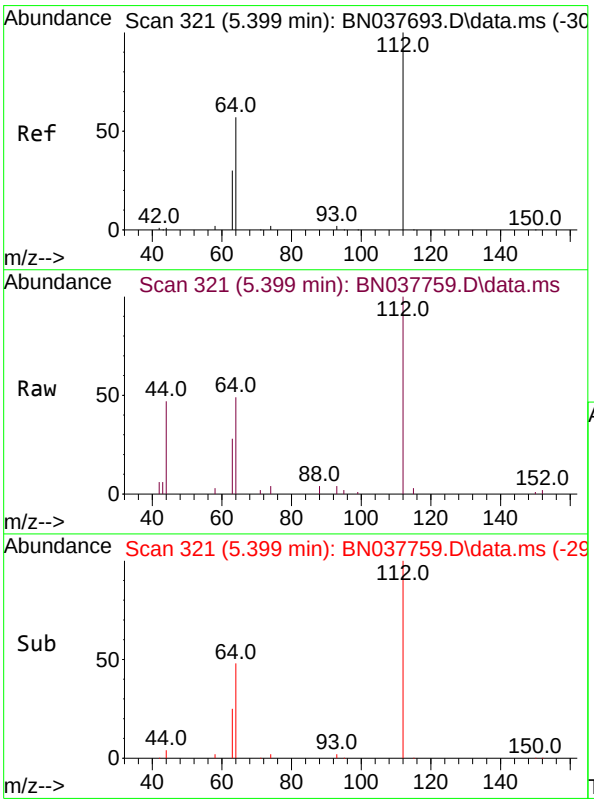

#3
n-Nitrosodimethylamine
Concen: 0.376 ng
RT: 3.608 min Scan# 7
Delta R.T. -0.000 min
Lab File: BN037759.D
Acq: 18 Sep 2025 02:46

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4

Tgt Ion: 42 Resp: 4100

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 42 | 100 | | |
| 74 | 117.7 | 86.0 | 129.0 |
| 44 | 9.8 | 8.4 | 12.6 |

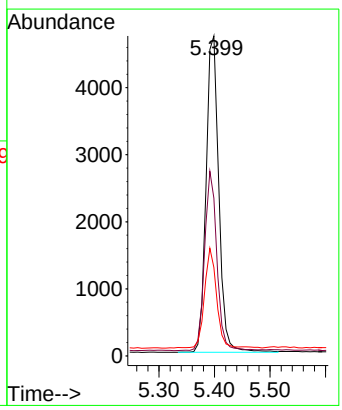


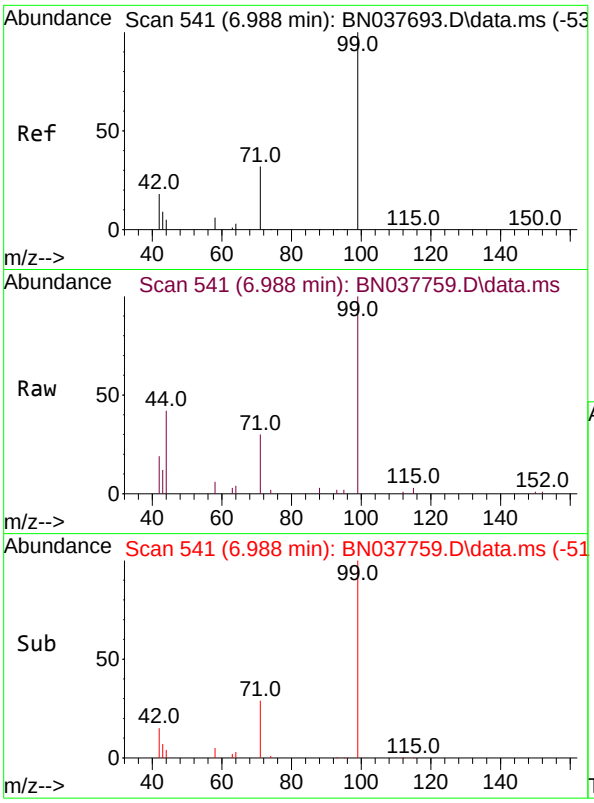




#4
2-Fluorophenol
Concen: 0.409 ng
RT: 5.399 min Scan# 321
Delta R.T. -0.000 min
Lab File: BN037759.D
Acq: 18 Sep 2025 02:46

Tgt Ion:112 Resp: 7521

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 112 | 100 | | |
| 64 | 54.9 | 44.9 | 67.3 |
| 63 | 29.9 | 24.7 | 37.1 |



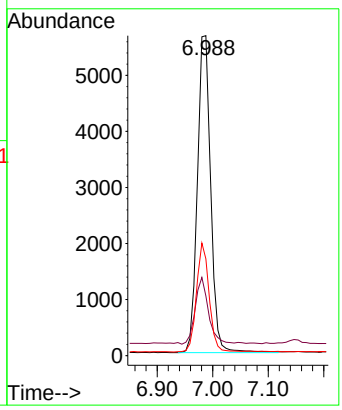


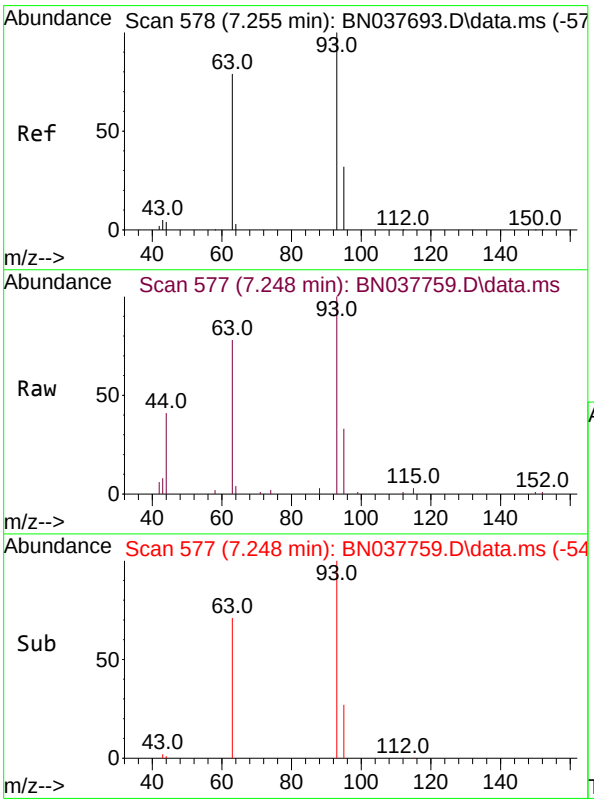

#5
Phenol-d6
Concen: 0.396 ng
RT: 6.988 min Scan# 54
Delta R.T. -0.000 min
Lab File: BN037759.D
Acq: 18 Sep 2025 02:46

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4

Tgt Ion: 99 Resp: 9450

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 99 | 100 | | |
| 42 | 21.0 | 16.6 | 24.8 |
| 71 | 32.7 | 26.7 | 40.1 |

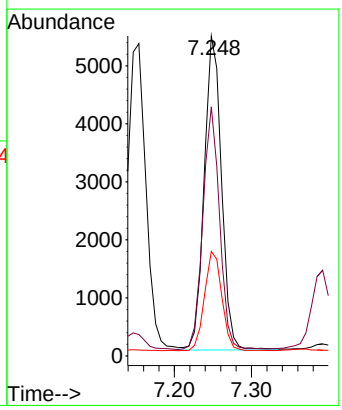


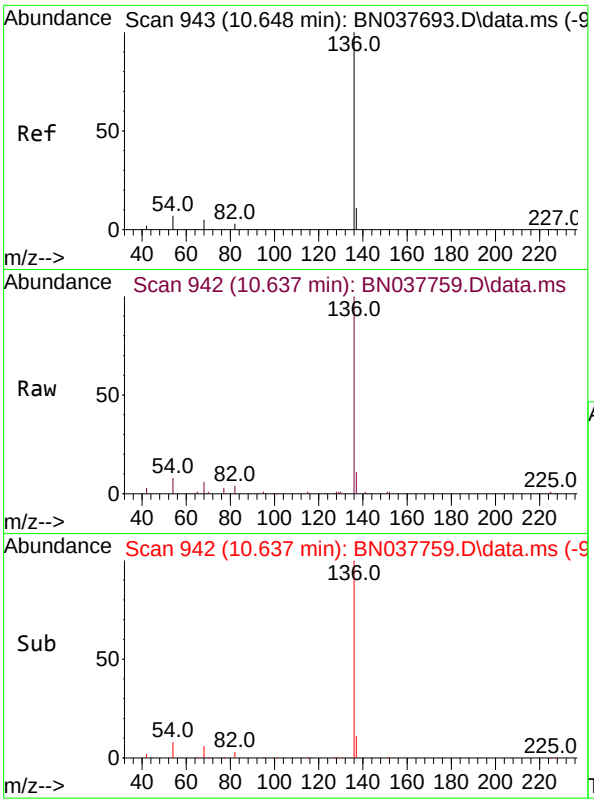




#6
bis(2-Chloroethyl)ether
Concen: 0.397 ng
RT: 7.248 min Scan# 577
Delta R.T. -0.007 min
Lab File: BN037759.D
Acq: 18 Sep 2025 02:46

Tgt Ion: 93 Resp: 8459

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 93 | 100 | | |
| 63 | 74.5 | 60.6 | 90.8 |
| 95 | 31.6 | 26.0 | 39.0 |



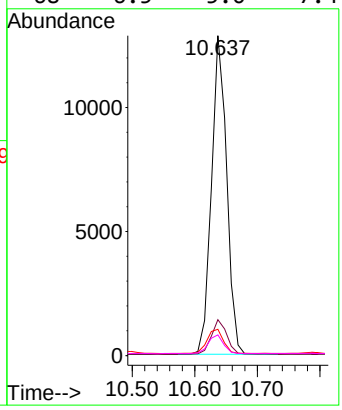


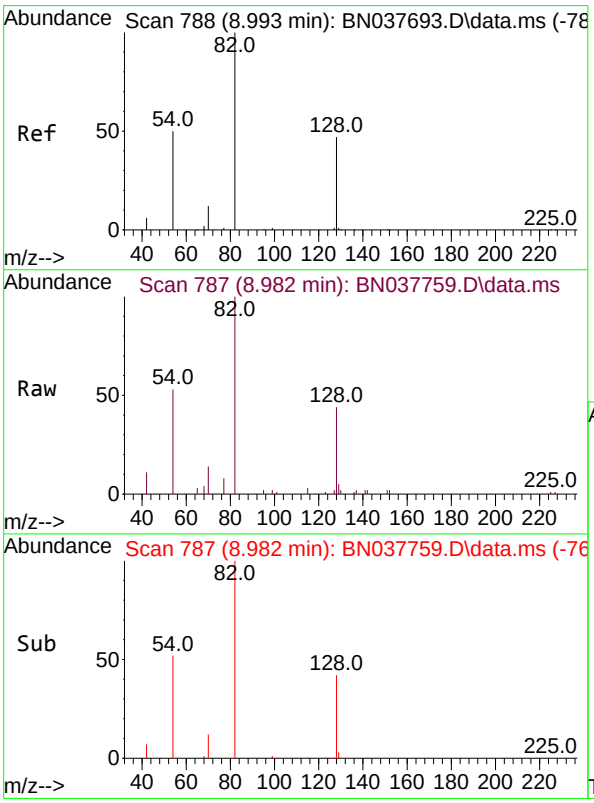

#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.637 min Scan# 94
Delta R.T. -0.011 min
Lab File: BN037759.D
Acq: 18 Sep 2025 02:46

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4

Tgt Ion:136 Resp: 21664

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 136 | 100 | | |
| 137 | 11.2 | 9.1 | 13.7 |
| 54 | 8.2 | 6.3 | 9.5 |
| 68 | 6.5 | 5.0 | 7.4 |

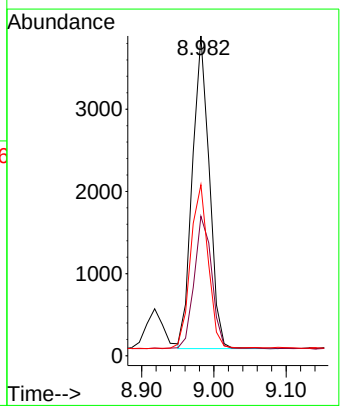


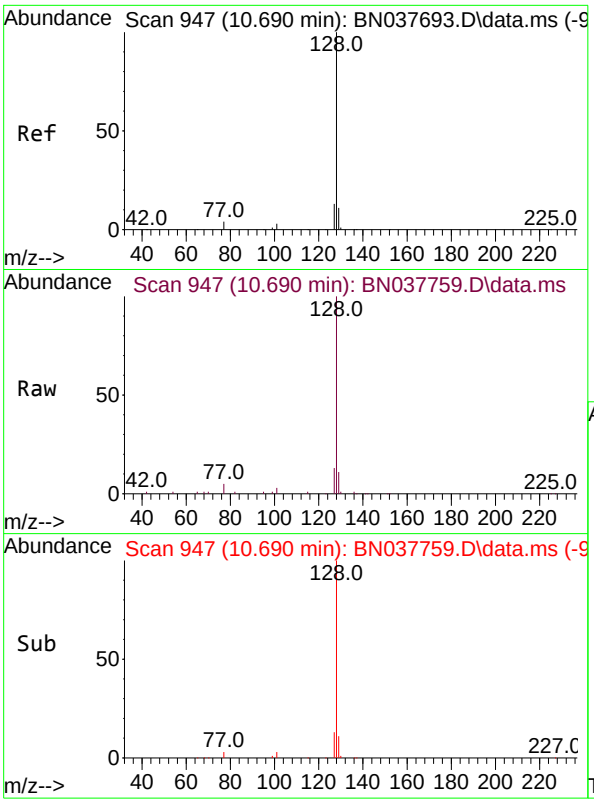




#8
Nitrobenzene-d5
Concen: 0.391 ng
RT: 8.982 min Scan# 787
Delta R.T. -0.011 min
Lab File: BN037759.D
Acq: 18 Sep 2025 02:46

Tgt Ion: 82 Resp: 6195

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 82 | 100 | | |
| 128 | 43.6 | 38.3 | 57.5 |
| 54 | 53.5 | 41.4 | 62.2 |



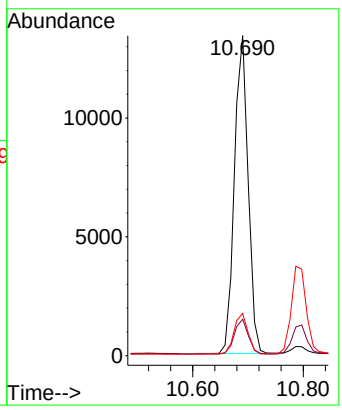


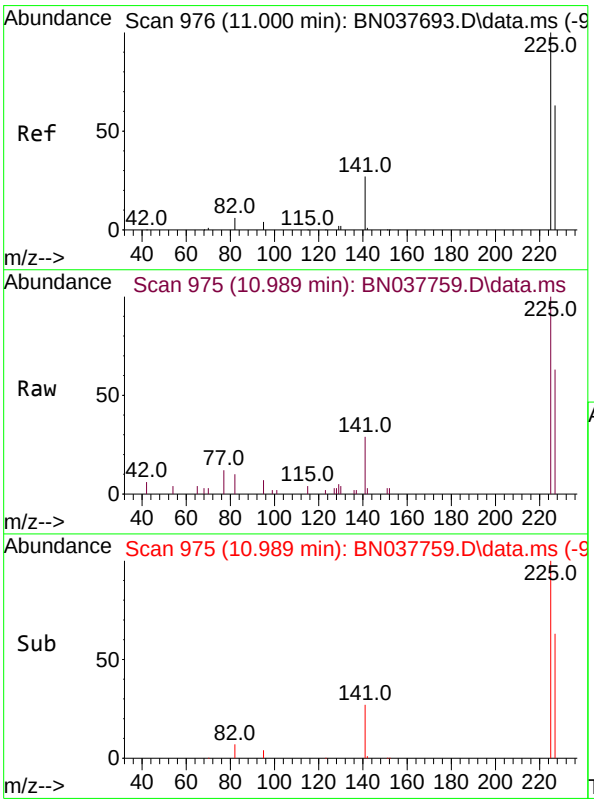

#9
Naphthalene
Concen: 0.389 ng
RT: 10.690 min Scan# 94
Delta R.T. -0.000 min
Lab File: BN037759.D
Acq: 18 Sep 2025 02:46

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4

Tgt Ion:128 Resp: 23012

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 128 | 100 | | |
| 129 | 11.4 | 9.1 | 13.7 |
| 127 | 13.2 | 10.9 | 16.3 |

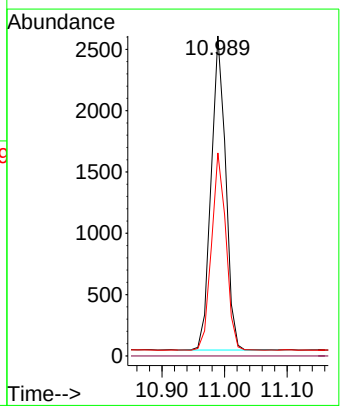


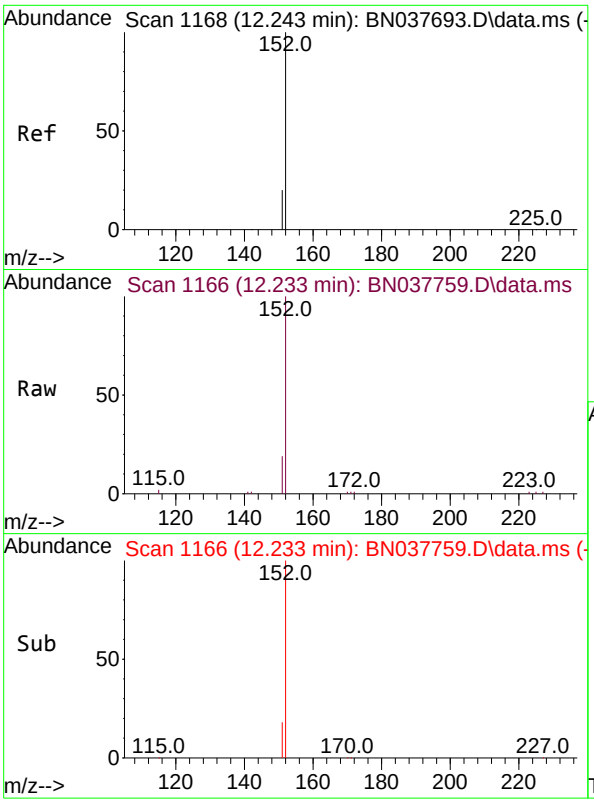




#10
Hexachlorobutadiene
Concen: 0.385 ng
RT: 10.989 min Scan# 975
Delta R.T. -0.011 min
Lab File: BN037759.D
Acq: 18 Sep 2025 02:46

Tgt Ion:225 Resp: 4127

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 225 | 100 | | |
| 223 | 0.0 | 0.0 | 0.0 |
| 227 | 62.6 | 50.9 | 76.3 |



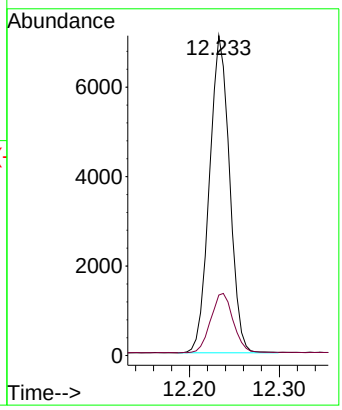


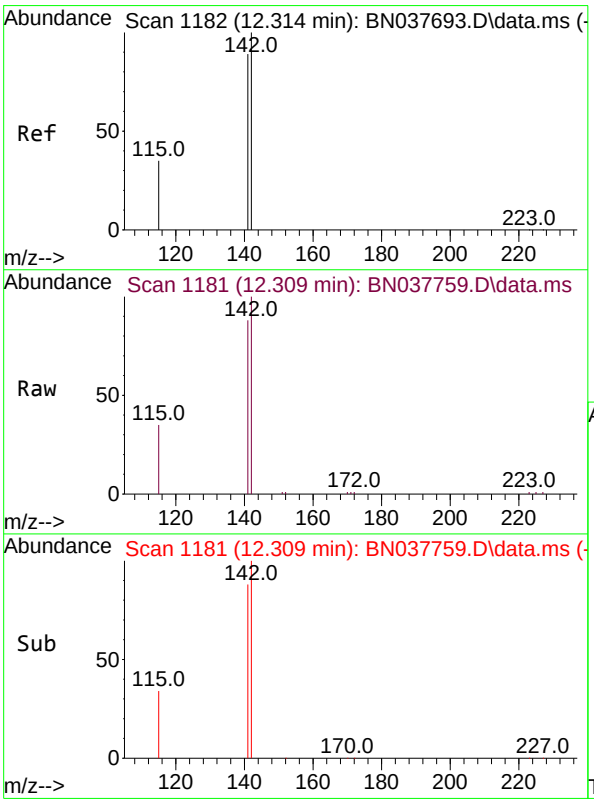

#11
2-Methylnaphthalene-d10
Concen: 0.386 ng
RT: 12.233 min Scan# 11
Delta R.T. -0.010 min
Lab File: BN037759.D
Acq: 18 Sep 2025 02:46

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4

Tgt Ion:152 Resp: 11065

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

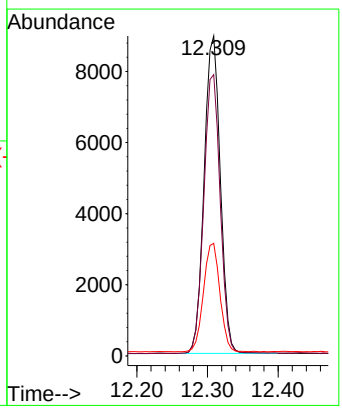


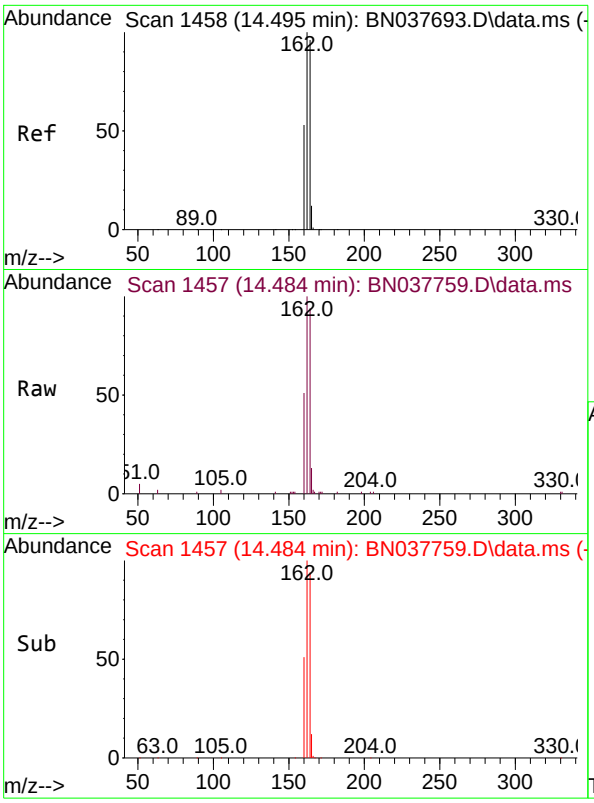




#12
2-Methylnaphthalene
Concen: 0.389 ng
RT: 12.309 min Scan# 1181
Delta R.T. -0.005 min
Lab File: BN037759.D
Acq: 18 Sep 2025 02:46

Tgt Ion:142 Resp: 14242

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 142 | 100 | | |
| 141 | 87.9 | 71.6 | 107.4 |
| 115 | 35.2 | 28.6 | 43.0 |



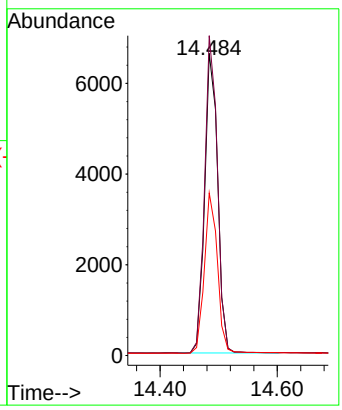


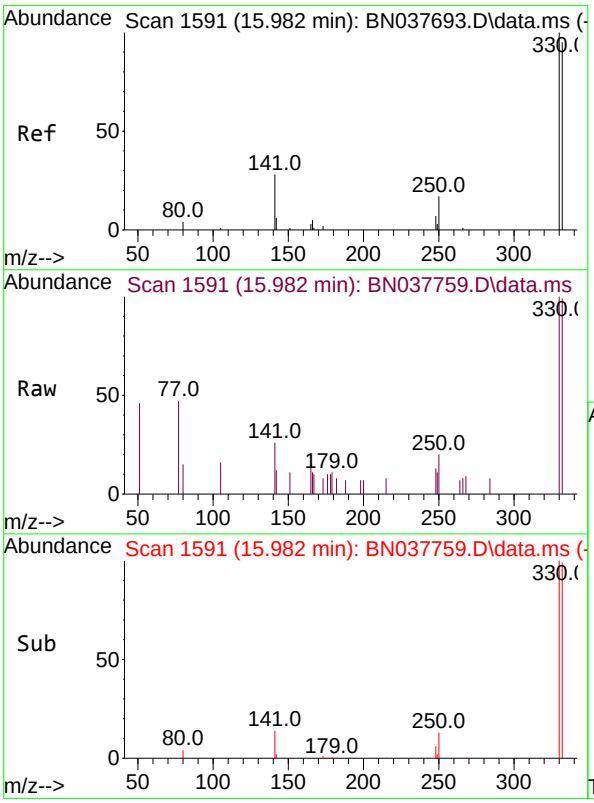

#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.484 min Scan# 14
Delta R.T. -0.011 min
Lab File: BN037759.D
Acq: 18 Sep 2025 02:46

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4

Tgt Ion:164 Resp: 10192

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 164 | 100 | | |
| 162 | 105.9 | 83.1 | 124.7 |
| 160 | 53.8 | 44.3 | 66.5 |

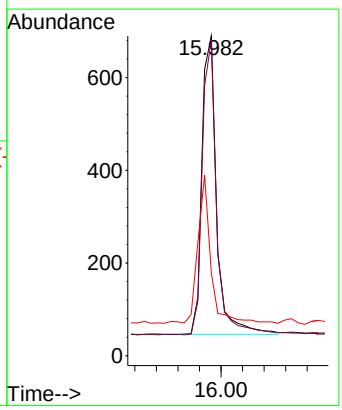


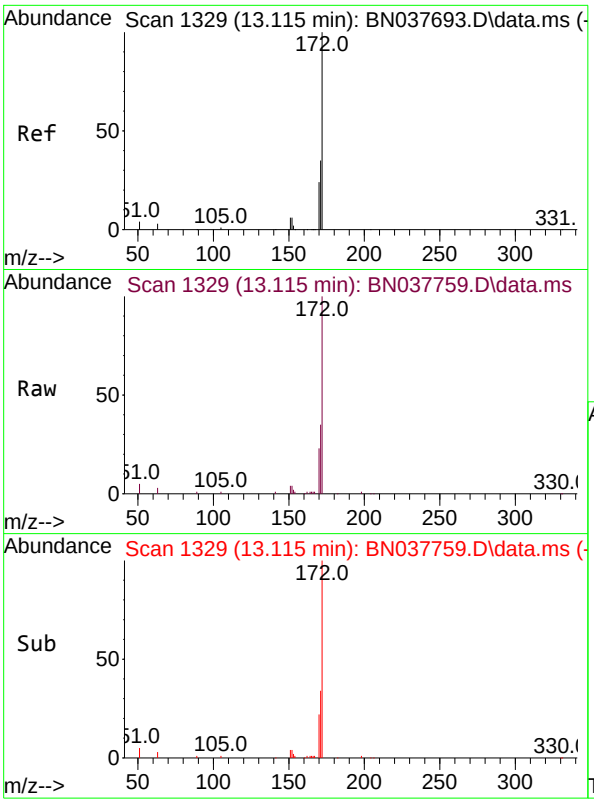




#14
2,4,6-Tribromophenol
Concen: 0.460 ng
RT: 15.982 min Scan# 1591
Delta R.T. -0.000 min
Lab File: BN037759.D
Acq: 18 Sep 2025 02:46

Tgt Ion:330 Resp: 1222

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 330 | 100 | | |
| 332 | 96.4 | 75.3 | 112.9 |
| 141 | 43.6 | 35.0 | 52.4 |



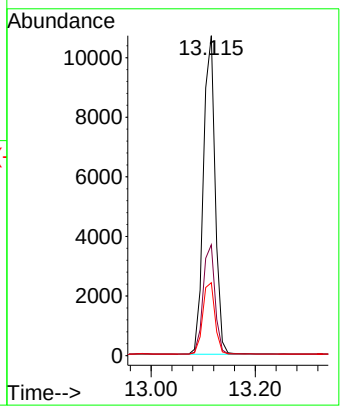


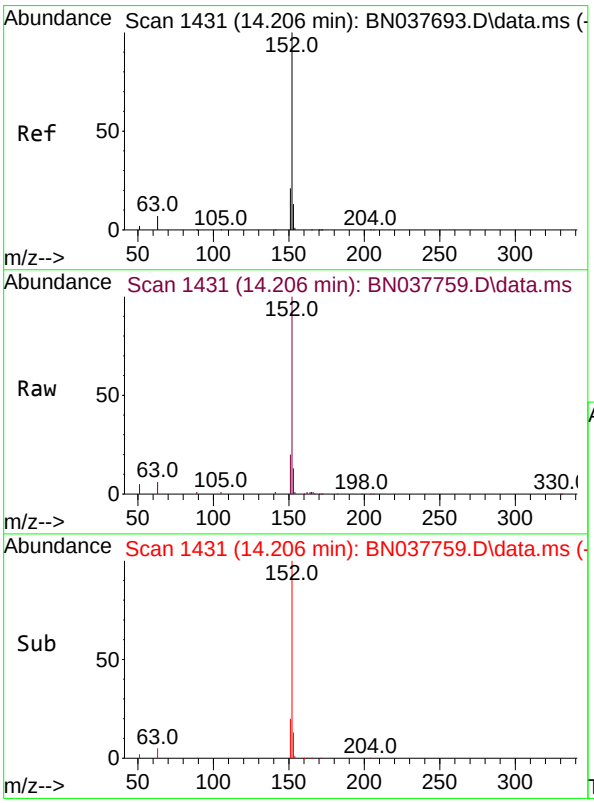

#15
2-Fluorobiphenyl
Concen: 0.393 ng
RT: 13.115 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN037759.D
Acq: 18 Sep 2025 02:46

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4

Tgt Ion:172 Resp: 16772

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 172 | 100 | | |
| 171 | 34.6 | 28.6 | 43.0 |
| 170 | 22.8 | 19.8 | 29.8 |

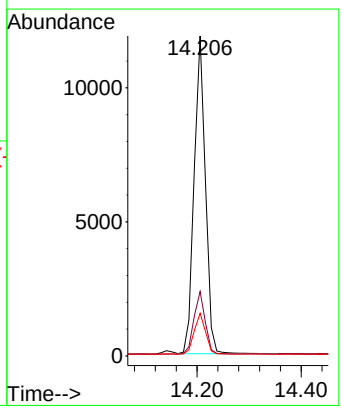


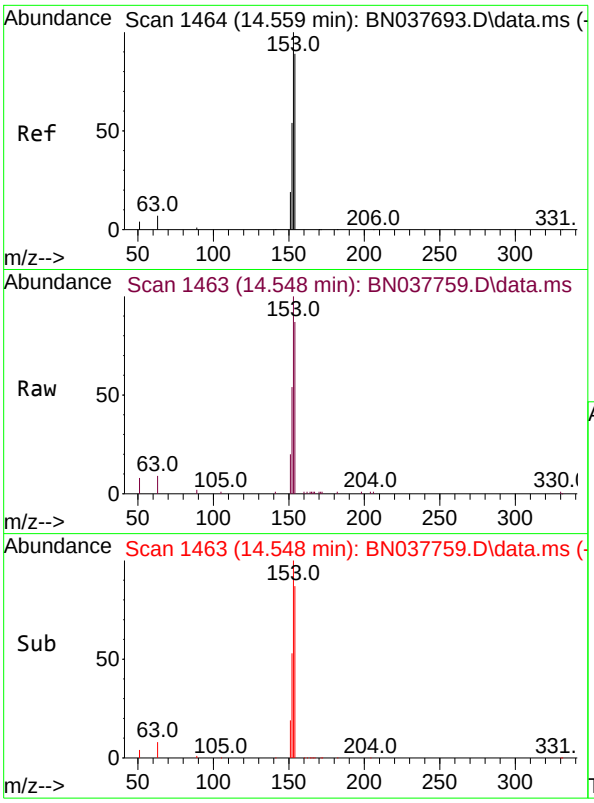




#16
Acenaphthylene
Concen: 0.380 ng
RT: 14.206 min Scan# 1431
Delta R.T. -0.000 min
Lab File: BN037759.D
Acq: 18 Sep 2025 02:46

Tgt Ion:152 Resp: 17762

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 151 | 19.7 | 16.2 | 24.2 |
| 153 | 12.9 | 10.4 | 15.6 |



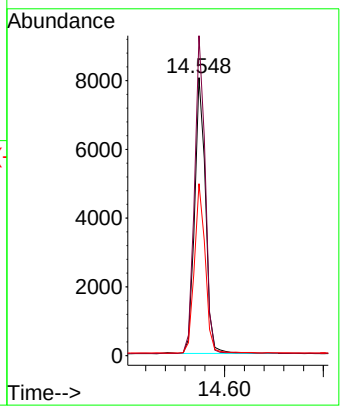


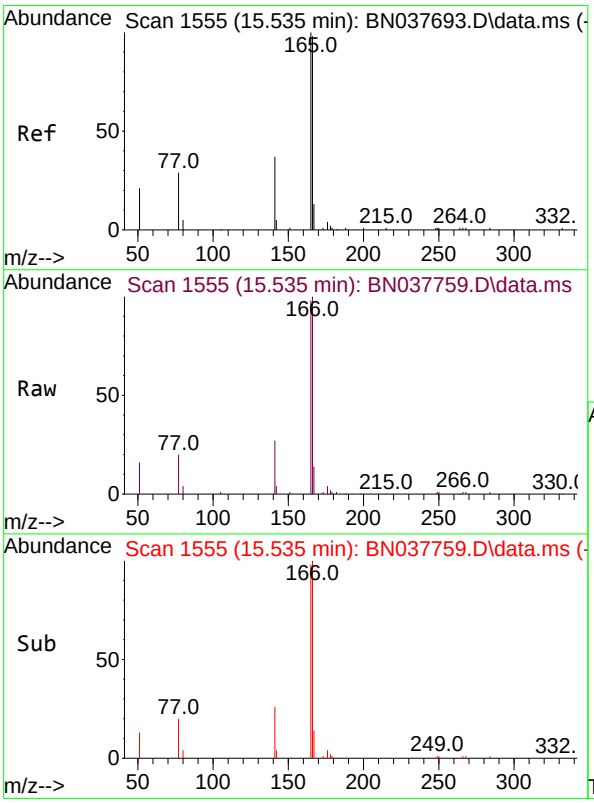

#17
Acenaphthene
Concen: 0.388 ng
RT: 14.548 min Scan# 14
Delta R.T. -0.011 min
Lab File: BN037759.D
Acq: 18 Sep 2025 02:46

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4

Tgt Ion:154 Resp: 12273

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 154 | 100 | | |
| 153 | 112.9 | 89.8 | 134.8 |
| 152 | 61.6 | 50.2 | 75.2 |

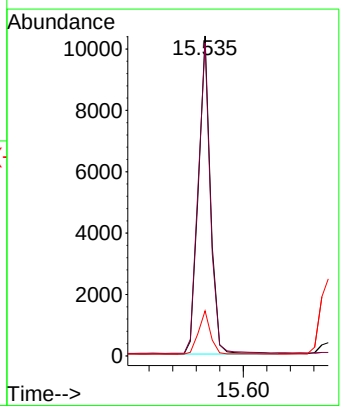


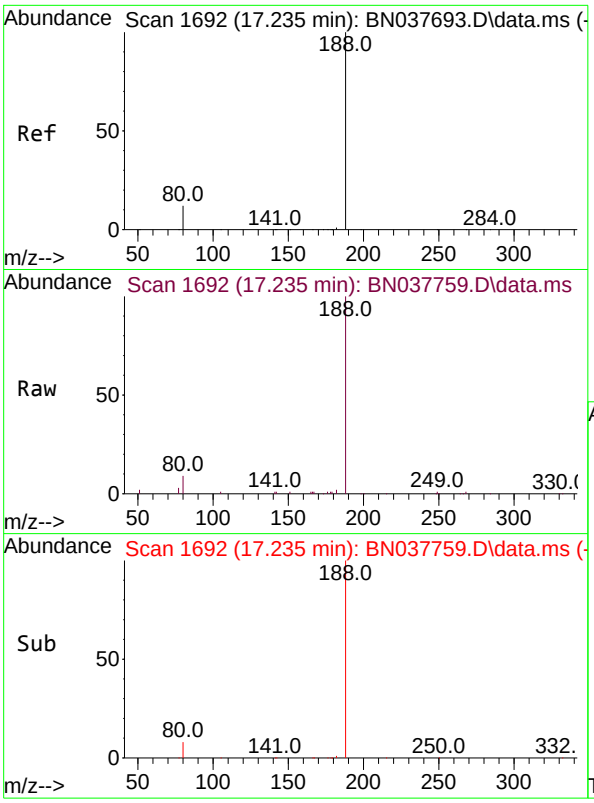




#18
Fluorene
Concen: 0.378 ng
RT: 15.535 min Scan# 1555
Delta R.T. -0.000 min
Lab File: BN037759.D
Acq: 18 Sep 2025 02:46

Tgt Ion:166 Resp: 14482

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 166 | 100 | | |
| 165 | 98.0 | 79.6 | 119.4 |
| 167 | 13.5 | 10.6 | 16.0 |



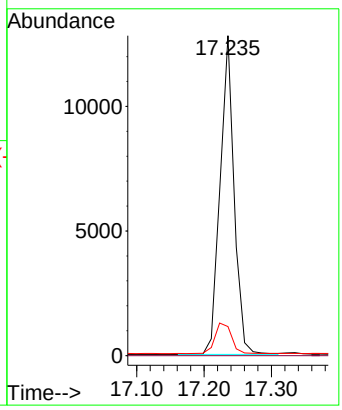


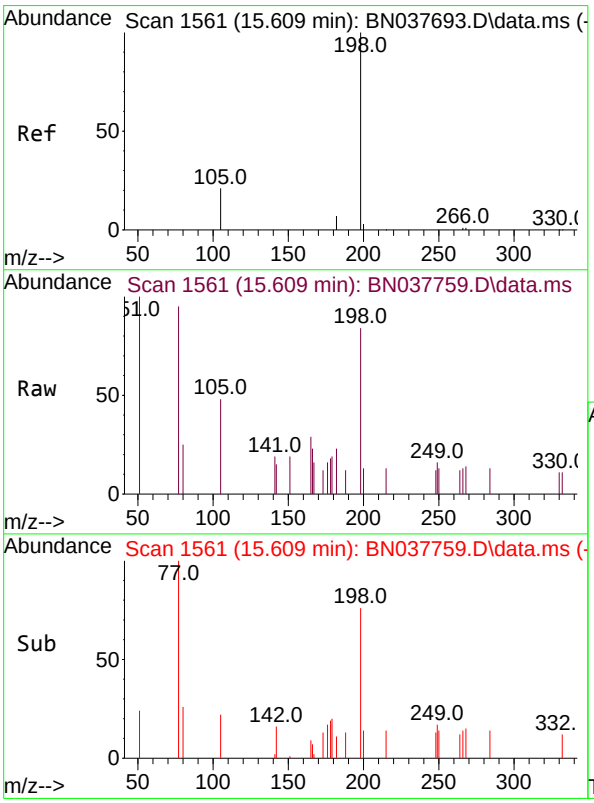

#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.235 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN037759.D
Acq: 18 Sep 2025 02:46

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4

Tgt Ion:188 Resp: 18613

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 188 | 100 | | |
| 94 | 0.0 | 0.0 | 0.0 |
| 80 | 9.1 | 10.6 | 15.8# |

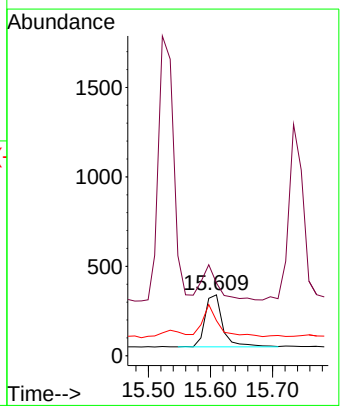


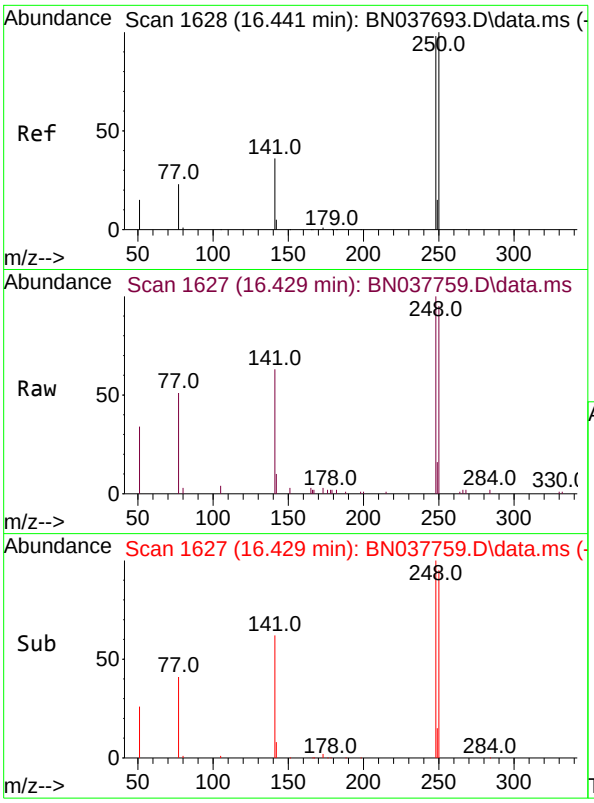




#20
4,6-Dinitro-2-methylphenol
Concen: 0.334 ng
RT: 15.609 min Scan# 1561
Delta R.T. 0.000 min
Lab File: BN037759.D
Acq: 18 Sep 2025 02:46

Tgt Ion:198 Resp: 576

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 198 | 100 | | |
| 51 | 119.4 | 95.1 | 142.7 |
| 105 | 57.8 | 53.8 | 80.6 |



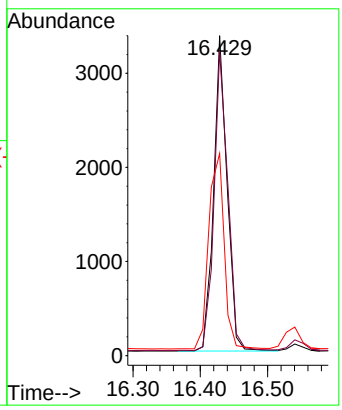


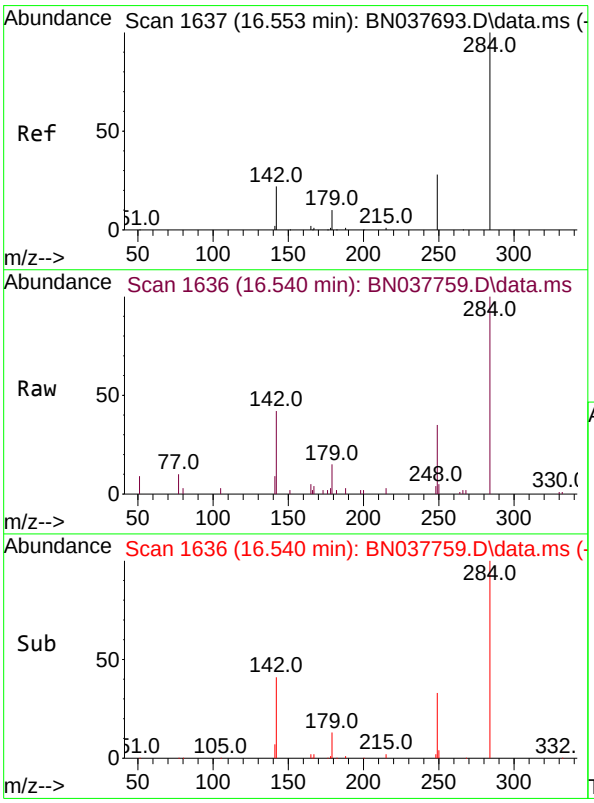

#21
4-Bromophenyl-phenylether
Concen: 0.385 ng
RT: 16.429 min Scan# 1
Delta R.T. -0.012 min
Lab File: BN037759.D
Acq: 18 Sep 2025 02:46

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4

Tgt Ion:248 Resp: 4671

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 248 | 100 | | |
| 250 | 95.1 | 81.5 | 122.3 |
| 141 | 63.2 | 30.8 | 46.2# |

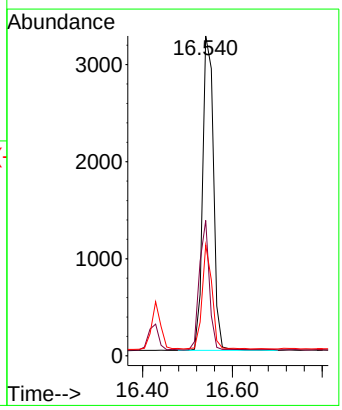


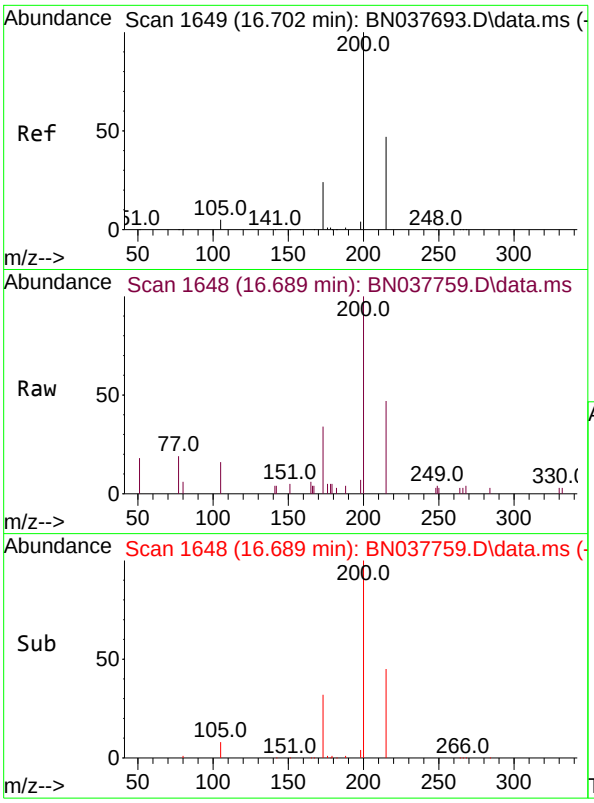




#22
Hexachlorobenzene
Concen: 0.389 ng
RT: 16.540 min Scan# 1636
Delta R.T. -0.012 min
Lab File: BN037759.D
Acq: 18 Sep 2025 02:46

Tgt Ion:284 Resp: 5435

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 284 | 100 | | |
| 142 | 37.7 | 30.9 | 46.3 |
| 249 | 30.2 | 24.8 | 37.2 |



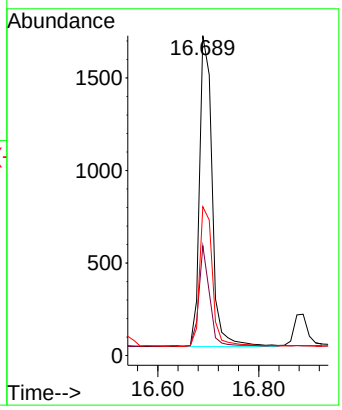


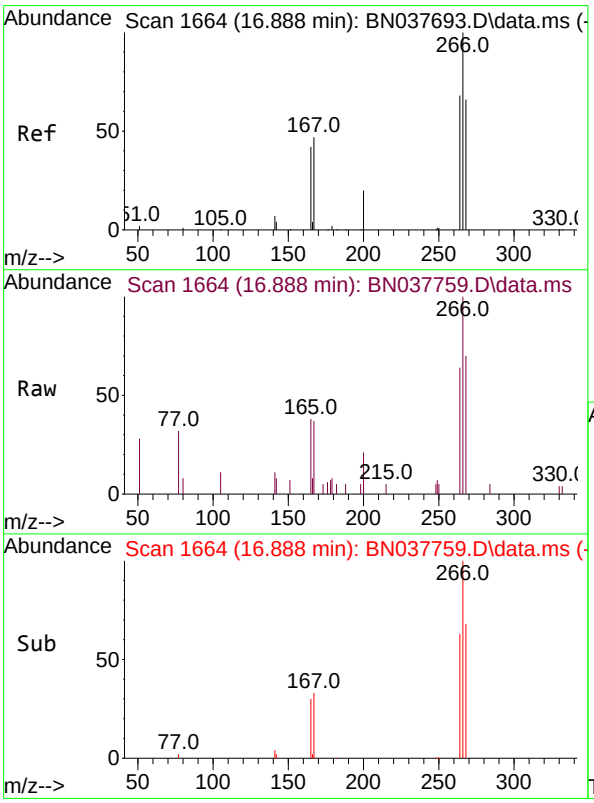

#23
Atrazine
Concen: 0.375 ng
RT: 16.689 min Scan# 1
Delta R.T. -0.012 min
Lab File: BN037759.D
Acq: 18 Sep 2025 02:46

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4

Tgt Ion:200 Resp: 2899

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 200 | 100 | | |
| 173 | 34.3 | 21.4 | 32.2# |
| 215 | 46.5 | 39.2 | 58.8 |

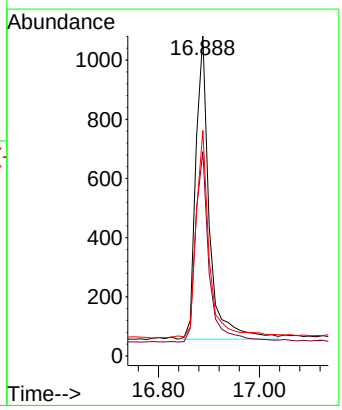


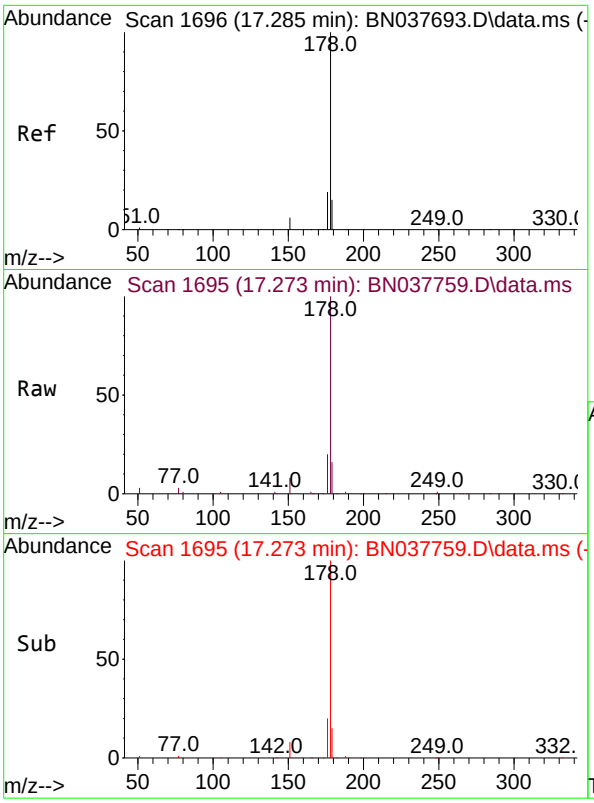




#24
Pentachlorophenol
Concen: 0.471 ng
RT: 16.888 min Scan# 1664
Delta R.T. -0.000 min
Lab File: BN037759.D
Acq: 18 Sep 2025 02:46

Tgt Ion:266 Resp: 1908

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 266 | 100 | | |
| 264 | 63.5 | 51.6 | 77.4 |
| 268 | 68.8 | 53.2 | 79.8 |



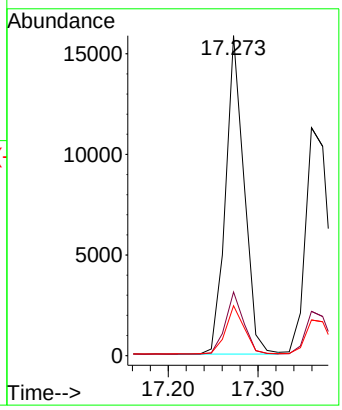


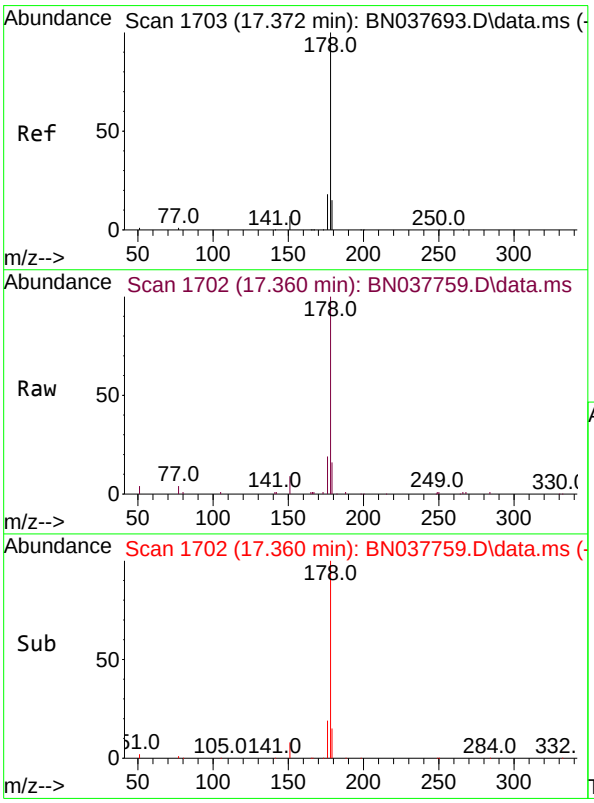

#25
Phenanthrene
Concen: 0.387 ng
RT: 17.273 min Scan# 1
Delta R.T. -0.012 min
Lab File: BN037759.D
Acq: 18 Sep 2025 02:46

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4

Tgt Ion:178 Resp: 22675

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 178 | 100 | | |
| 176 | 19.3 | 15.3 | 22.9 |
| 179 | 15.5 | 12.2 | 18.2 |

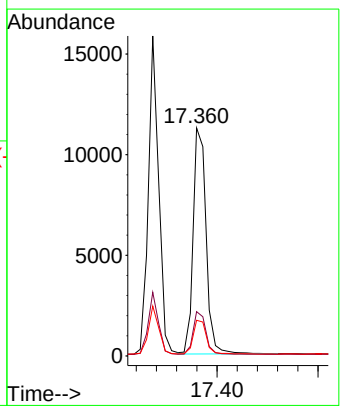


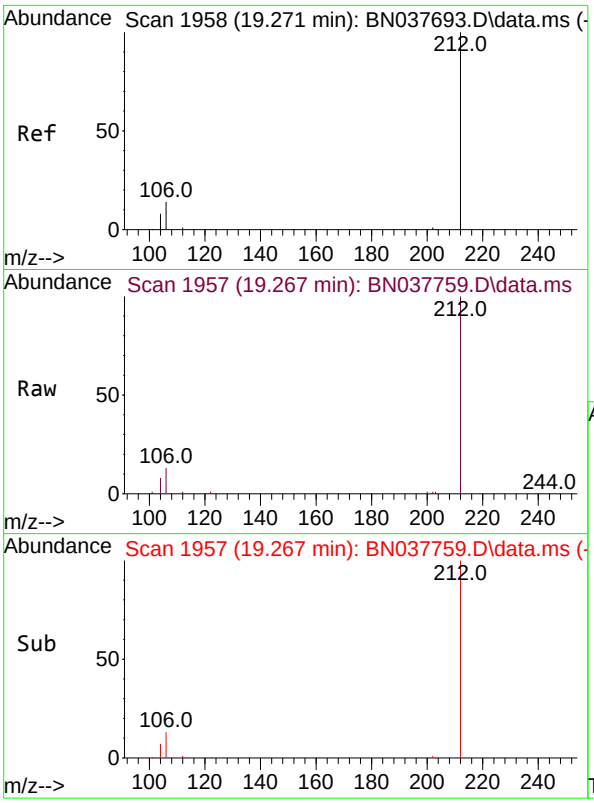




#26
Anthracene
Concen: 0.385 ng
RT: 17.360 min Scan# 1702
Delta R.T. -0.012 min
Lab File: BN037759.D
Acq: 18 Sep 2025 02:46

Tgt Ion:178 Resp: 19975

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 178 | 100 | | |
| 176 | 18.6 | 14.6 | 22.0 |
| 179 | 15.5 | 12.2 | 18.4 |



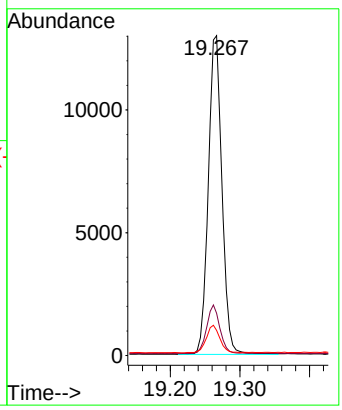


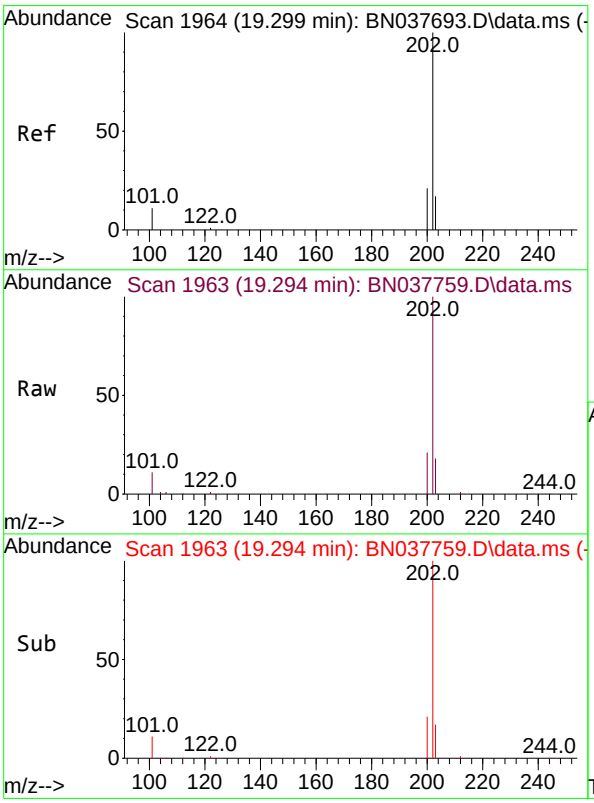

#27
Fluoranthene-d10
Concen: 0.378 ng
RT: 19.267 min Scan# 19
Delta R.T. -0.005 min
Lab File: BN037759.D
Acq: 18 Sep 2025 02:46

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4

Tgt Ion:212 Resp: 17669

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 212 | 100 | | |
| 106 | 14.8 | 12.2 | 18.2 |
| 104 | 8.6 | 6.9 | 10.3 |

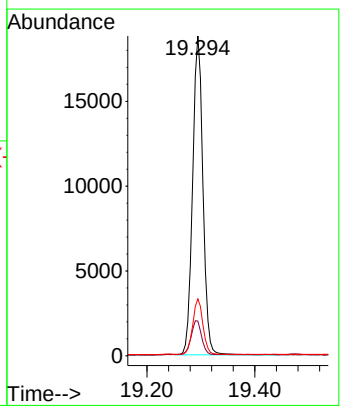


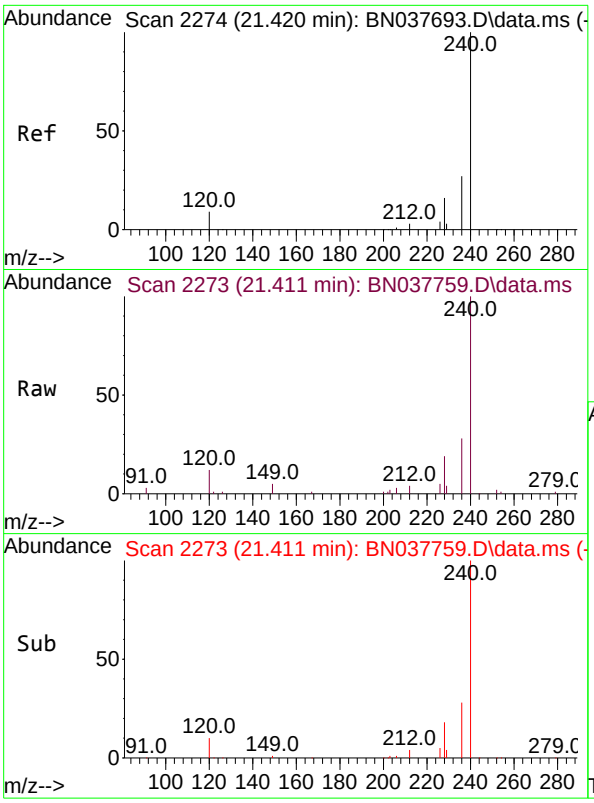




#28
Fluoranthene
Concen: 0.387 ng
RT: 19.294 min Scan# 1963
Delta R.T. -0.005 min
Lab File: BN037759.D
Acq: 18 Sep 2025 02:46

Tgt Ion:202 Resp: 24904

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 202 | 100 | | |
| 101 | 11.1 | 9.3 | 13.9 |
| 203 | 17.2 | 13.7 | 20.5 |



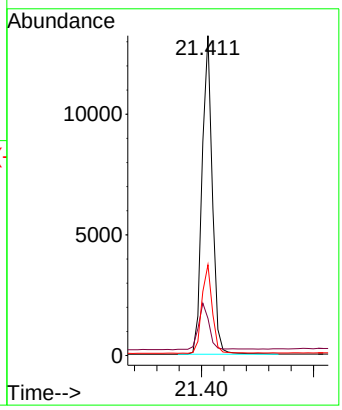


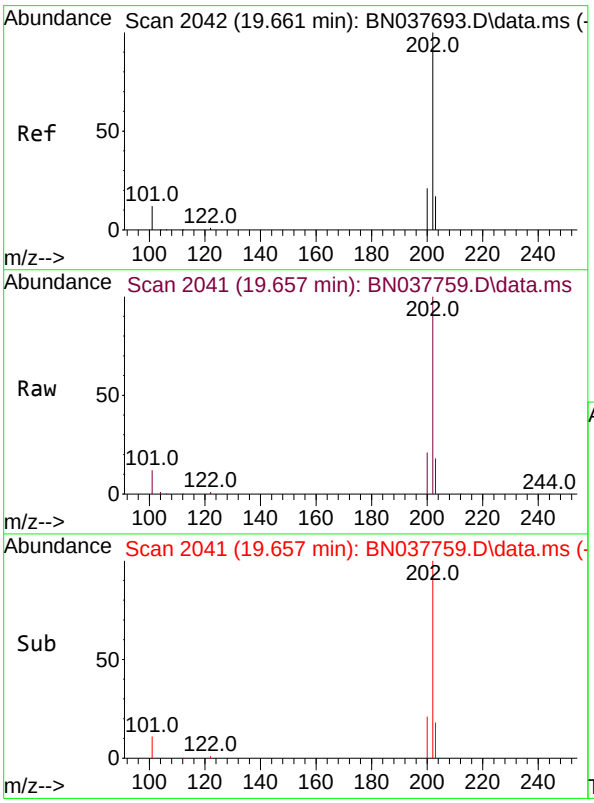

#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.411 min Scan# 2
Delta R.T. -0.009 min
Lab File: BN037759.D
Acq: 18 Sep 2025 02:46

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4

Tgt Ion:240 Resp: 16797

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 240 | 100 | | |
| 120 | 11.6 | 9.2 | 13.8 |
| 236 | 28.4 | 22.6 | 33.8 |

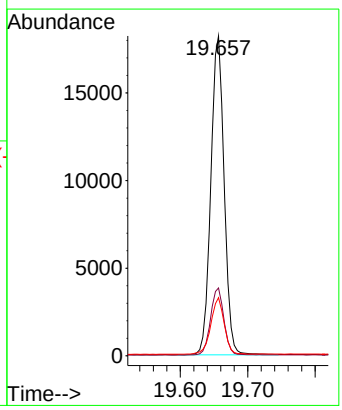


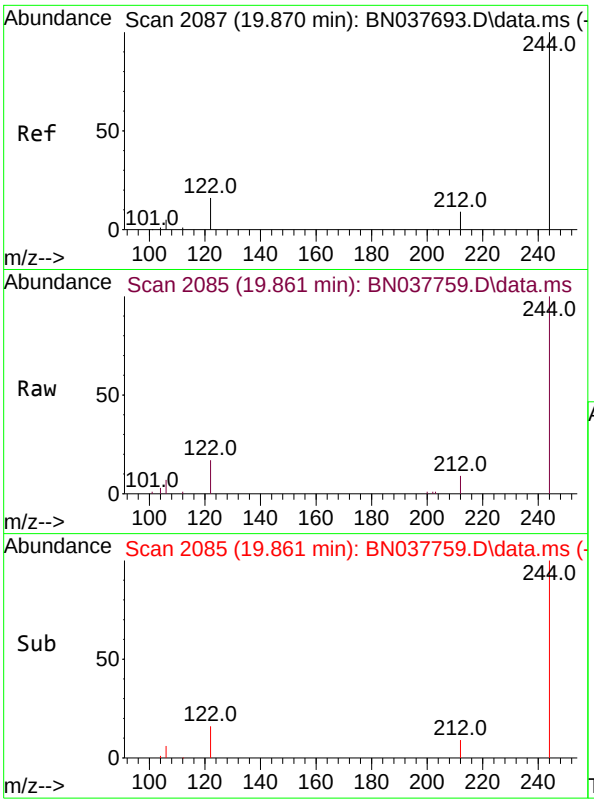




#30
Pyrene
Concen: 0.380 ng
RT: 19.657 min Scan# 2041
Delta R.T. -0.005 min
Lab File: BN037759.D
Acq: 18 Sep 2025 02:46

Tgt Ion:202 Resp: 24982

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 202 | 100 | | |
| 200 | 21.1 | 16.8 | 25.2 |
| 203 | 17.8 | 14.3 | 21.5 |



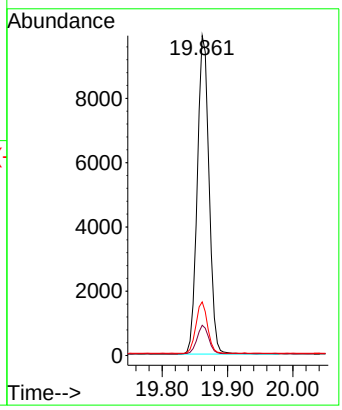


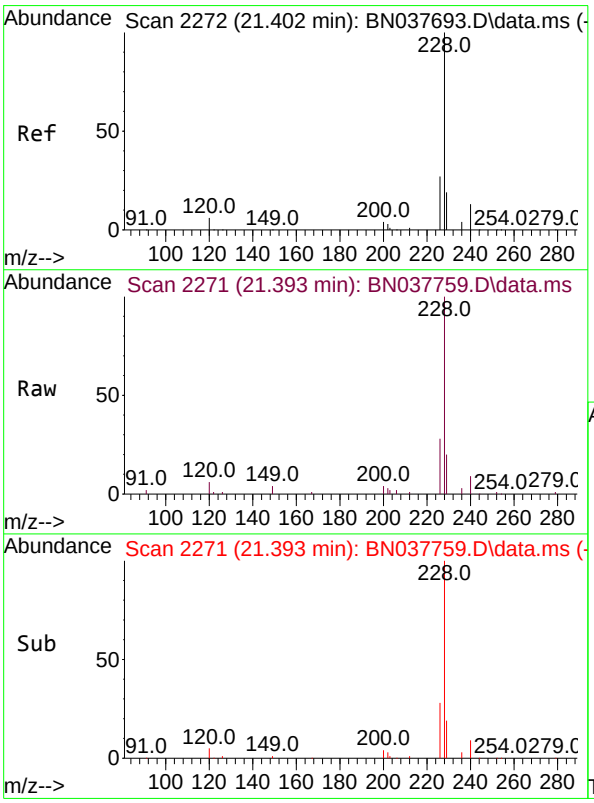

#31
Terphenyl-d14
Concen: 0.362 ng
RT: 19.861 min Scan# 20
Delta R.T. -0.009 min
Lab File: BN037759.D
Acq: 18 Sep 2025 02:46

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4

Tgt Ion:244 Resp: 12341

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 244 | 100 | | |
| 212 | 9.5 | 7.5 | 11.3 |
| 122 | 16.8 | 13.2 | 19.8 |

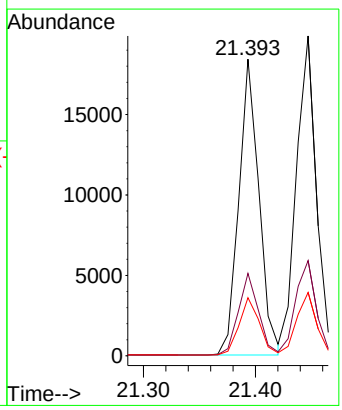


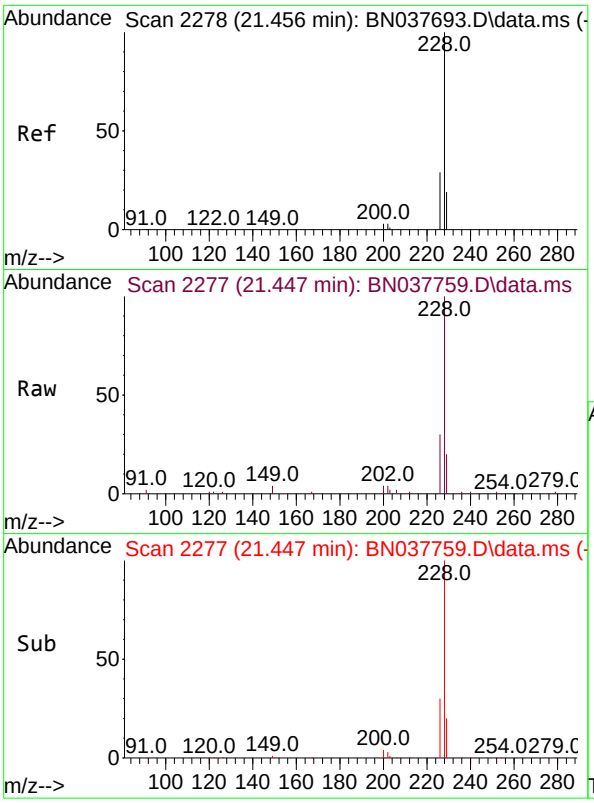




#32
Benzo(a)anthracene
Concen: 0.392 ng
RT: 21.393 min Scan# 2271
Delta R.T. -0.009 min
Lab File: BN037759.D
Acq: 18 Sep 2025 02:46

Tgt Ion:228 Resp: 22983

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 228 | 100 | | |
| 226 | 27.8 | 22.2 | 33.2 |
| 229 | 19.6 | 15.8 | 23.6 |



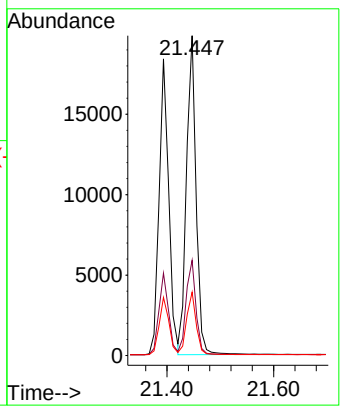


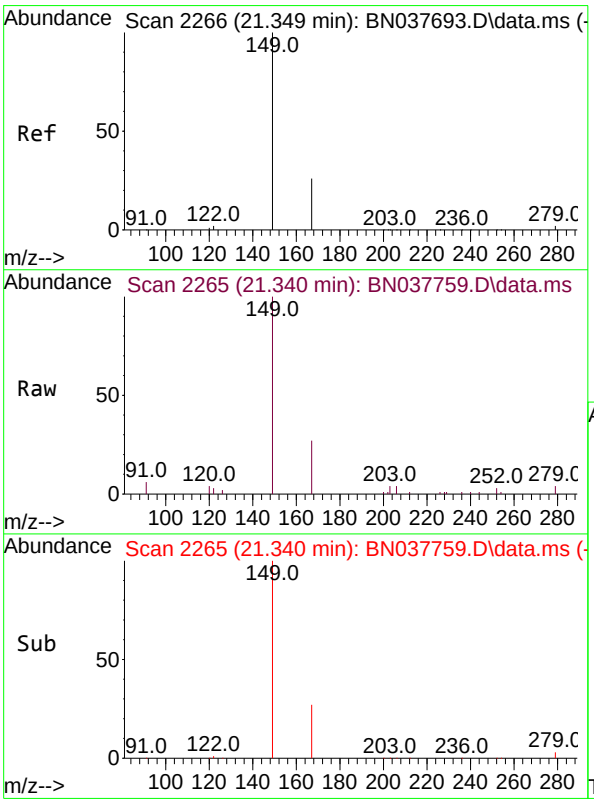

#33
Chrysene
Concen: 0.397 ng
RT: 21.447 min Scan# 2
Delta R.T. -0.009 min
Lab File: BN037759.D
Acq: 18 Sep 2025 02:46

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4

Tgt Ion:228 Resp: 24936

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 228 | 100 | | |
| 226 | 29.8 | 23.5 | 35.3 |
| 229 | 19.8 | 15.9 | 23.9 |

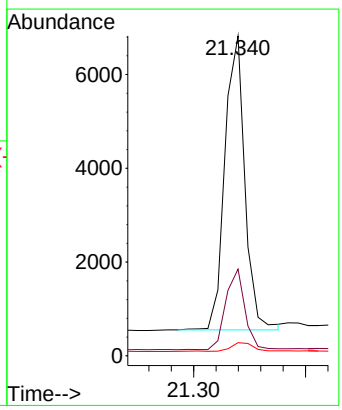


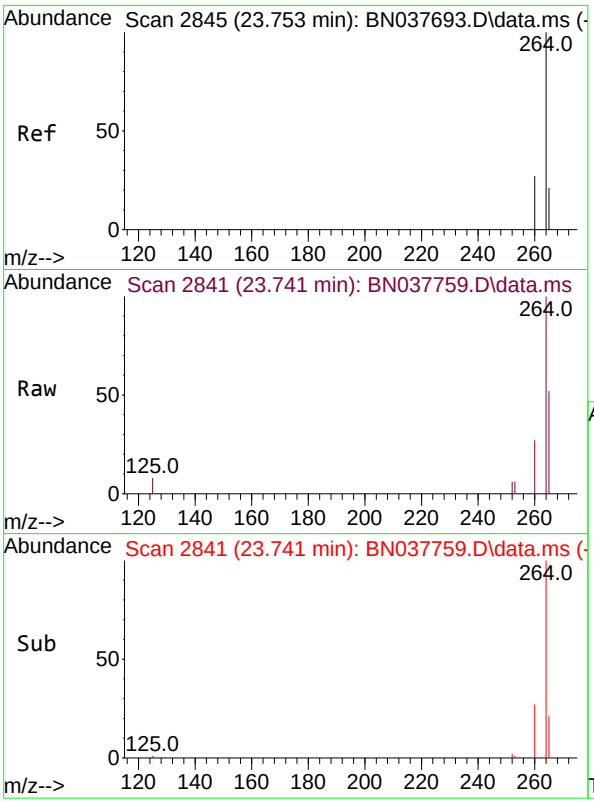




#34
Bis(2-ethylhexyl)phthalate
Concen: 0.446 ng
RT: 21.340 min Scan# 2265
Delta R.T. -0.009 min
Lab File: BN037759.D
Acq: 18 Sep 2025 02:46

Tgt Ion:149 Resp: 7755

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 149 | 100 | | |
| 167 | 26.5 | 20.8 | 31.2 |
| 279 | 3.3 | 3.3 | 4.9 |



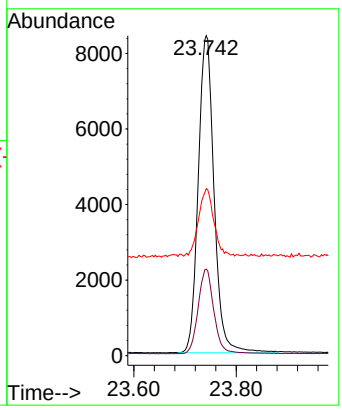


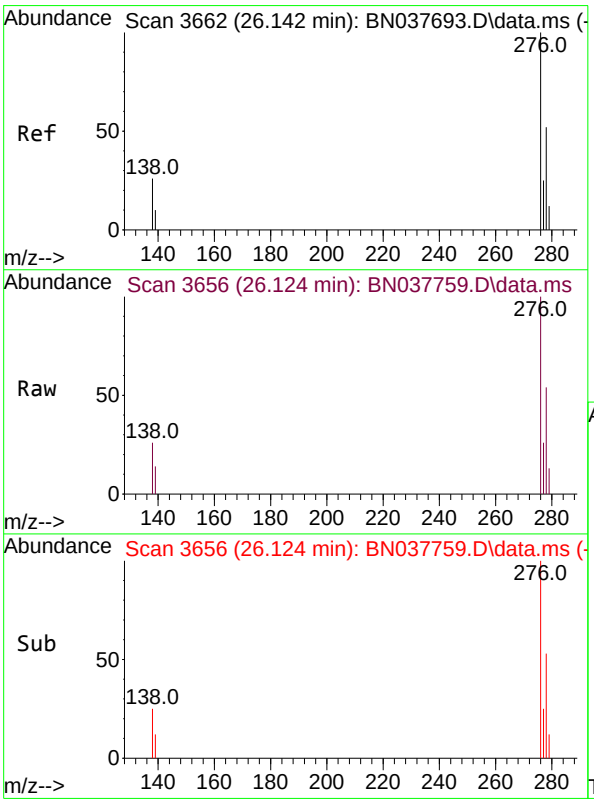

#35
Perylene-d12
Concen: 0.400 ng
RT: 23.741 min Scan# 2
Delta R.T. -0.012 min
Lab File: BN037759.D
Acq: 18 Sep 2025 02:46

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4

Tgt Ion:264 Resp: 18043

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 264 | 100 | | |
| 260 | 27.0 | 21.8 | 32.8 |
| 265 | 52.2 | 39.4 | 59.2 |

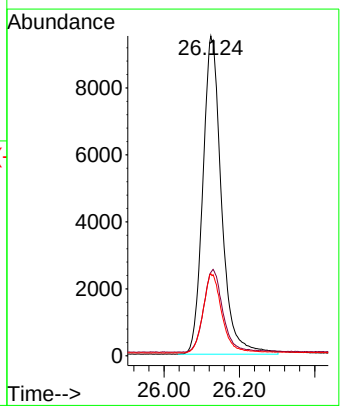


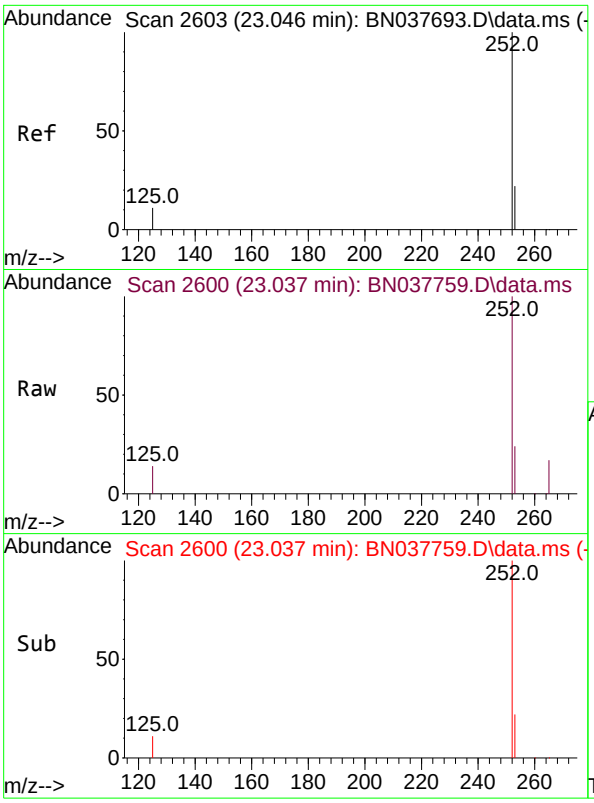




#36
Indeno(1,2,3-cd)pyrene
Concen: 0.431 ng
RT: 26.124 min Scan# 3656
Delta R.T. -0.018 min
Lab File: BN037759.D
Acq: 18 Sep 2025 02:46

Tgt Ion:276 Resp: 32683

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 276 | 100 | | |
| 138 | 26.2 | 21.9 | 32.9 |
| 277 | 25.0 | 20.1 | 30.1 |



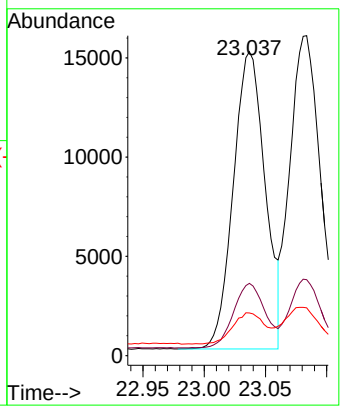


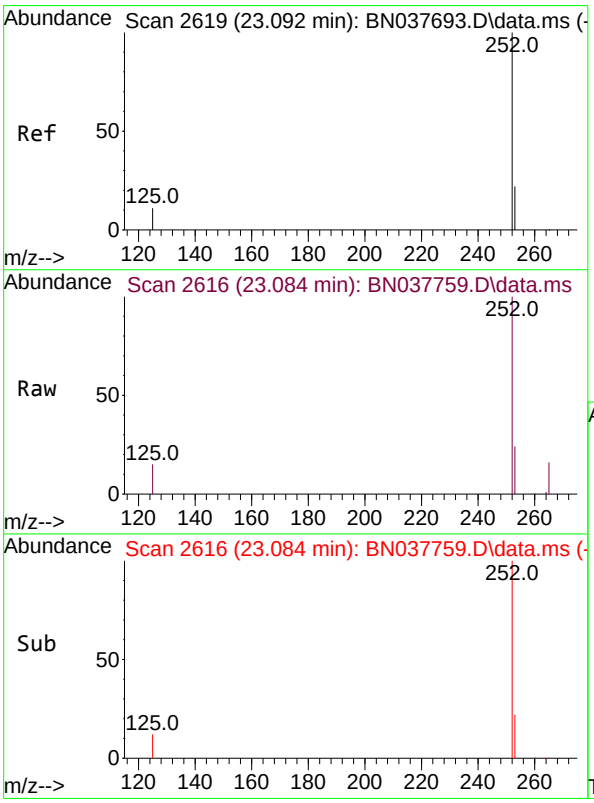

#37
Benzo(b)fluoranthene
Concen: 0.381 ng
RT: 23.037 min Scan# 2
Delta R.T. -0.009 min
Lab File: BN037759.D
Acq: 18 Sep 2025 02:46

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4

Tgt Ion:252 Resp: 27058

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 23.8 | 19.4 | 29.2 |
| 125 | 14.0 | 11.2 | 16.8 |

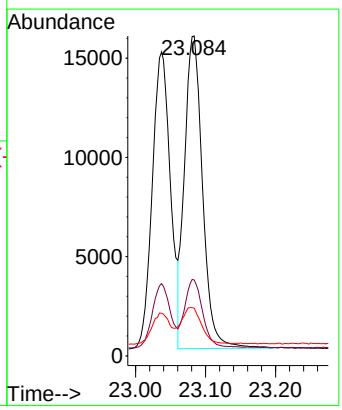


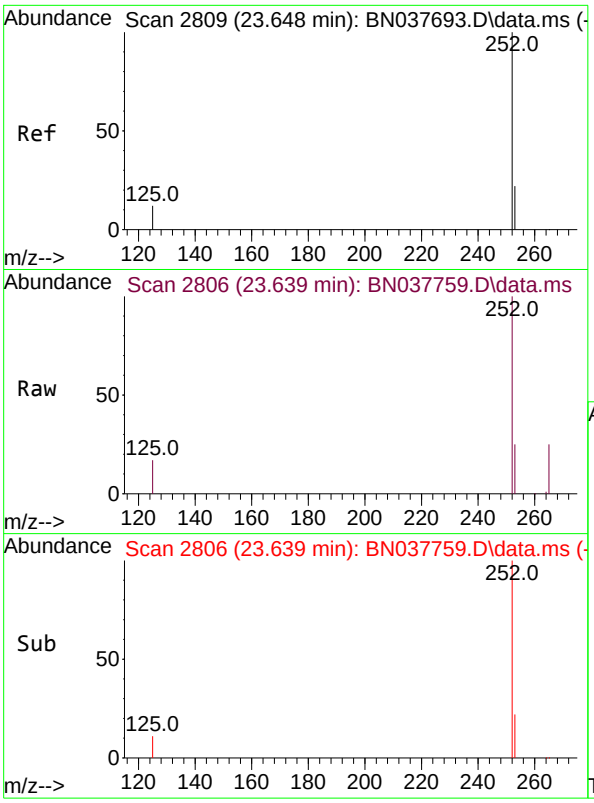




#38
Benzo(k)fluoranthene
Concen: 0.390 ng
RT: 23.084 min Scan# 2616
Delta R.T. -0.009 min
Lab File: BN037759.D
Acq: 18 Sep 2025 02:46

Tgt Ion:252 Resp: 28281

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 23.7 | 19.4 | 29.0 |
| 125 | 14.9 | 11.6 | 17.4 |



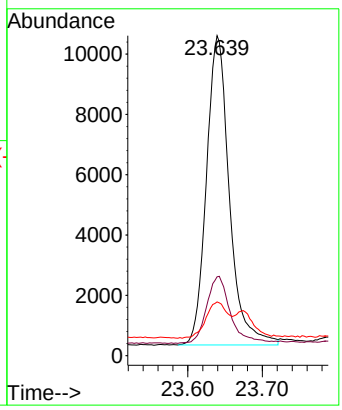


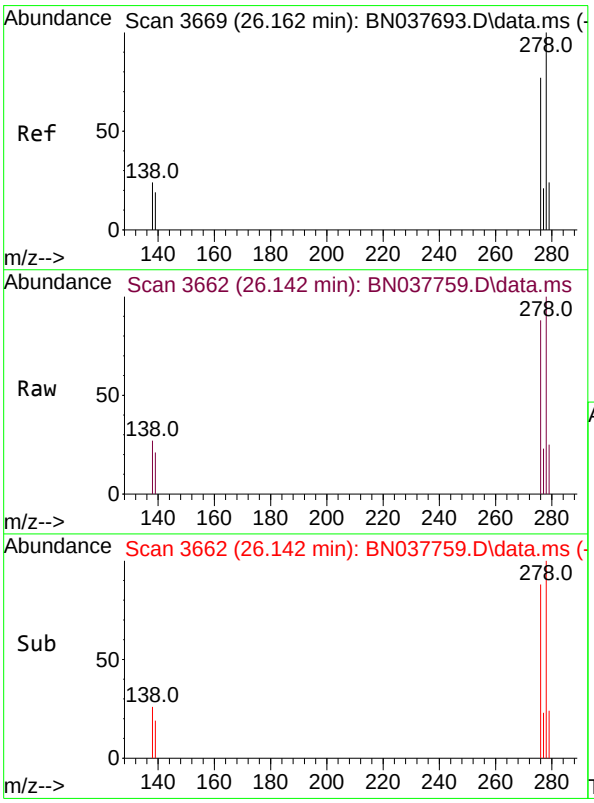

#39
Benzo(a)pyrene
Concen: 0.386 ng
RT: 23.639 min Scan# 28
Delta R.T. -0.009 min
Lab File: BN037759.D
Acq: 18 Sep 2025 02:46

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4

Tgt Ion:252 Resp: 21959

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 24.6 | 20.8 | 31.2 |
| 125 | 16.8 | 13.9 | 20.9 |

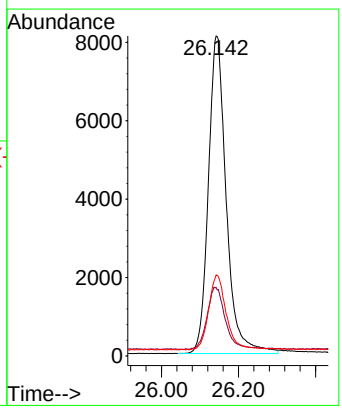


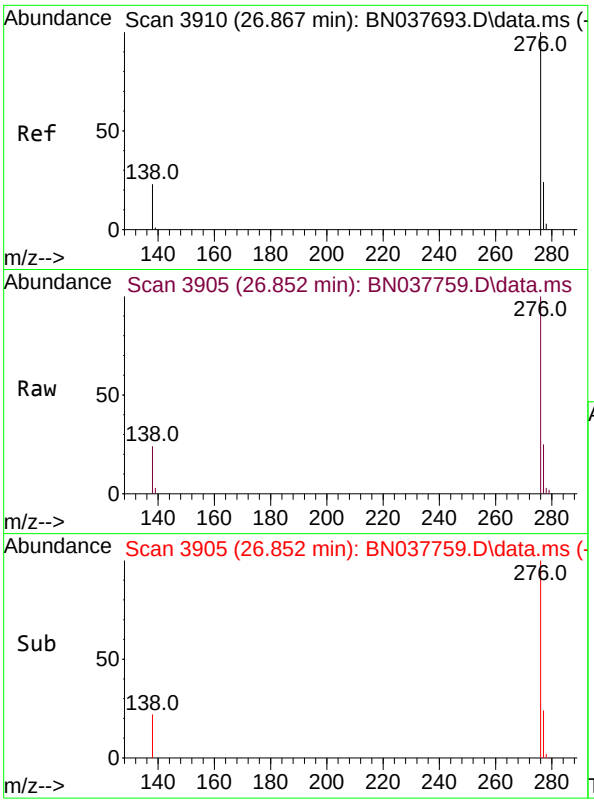




#40
Dibenzo(a,h)anthracene
Concen: 0.432 ng
RT: 26.142 min Scan# 3662
Delta R.T. -0.020 min
Lab File: BN037759.D
Acq: 18 Sep 2025 02:46

Tgt Ion:278 Resp: 26135

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 278 | 100 | | |
| 139 | 21.4 | 17.8 | 26.6 |
| 279 | 25.3 | 22.0 | 33.0 |



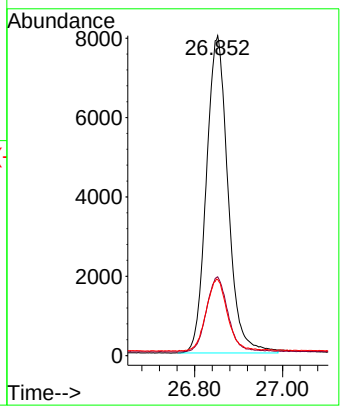



#41
Benzo(g,h,i)perylene
Concen: 0.403 ng
RT: 26.852 min Scan# 3
Delta R.T. -0.015 min
Lab File: BN037759.D
Acq: 18 Sep 2025 02:46

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4

Tgt Ion:276 Resp: 27338

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 276 | 100 | | |
| 277 | 24.6 | 20.6 | 31.0 |
| 138 | 23.8 | 20.2 | 30.2 |



Sample Results: **BN037759.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN091725\
Data File : BN037759.D
Acq On : 18 Sep 2025 02:46
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 20 Sample Multiplier: 1

**Instrument :**
BNA_N
**LabSampleId :**
SSTDCCC0.4

Quant Time: Sep 18 05:02:26 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN091125.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Sep 11 14:20:01 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 | 160# | 0.00 |
| 2 | | 1,4-Dioxane | 0.417 | 0.432 | -3.6 | 164# | 0.00 |
| 3 | | n-Nitrosodimethylamine | 0.544 | 0.512 | 5.9 | 146 | 0.00 |
| 4 | S | 2-Fluorophenol | 0.918 | 0.939 | -2.3 | 169# | 0.00 |
| 5 | S | Phenol-d6 | 1.191 | 1.179 | 1.0 | 164# | 0.00 |
| 6 | | bis(2-Chloroethyl)ether | 1.064 | 1.056 | 0.8 | 158# | 0.00 |
| 7 | I | Naphthalene-d8 | 1.000 | 1.000 | 0.0 | 164# | -0.01 |
| 8 | S | Nitrobenzene-d5 | 0.293 | 0.286 | 2.4 | 164# | -0.01 |
| 9 | | Naphthalene | 1.093 | 1.062 | 2.8 | 162# | 0.00 |
| 10 | | Hexachlorobutadiene | 0.198 | 0.191 | 3.5 | 158# | -0.01 |
| 11 | SURR | 2-Methylnaphthalene-d10 | 0.530 | 0.511 | 3.6 | 168# | -0.01 |
| 12 | | 2-Methylnaphthalene | 0.676 | 0.657 | 2.8 | 163# | 0.00 |
| 13 | I | Acenaphthene-d10 | 1.000 | 1.000 | 0.0 | 164# | -0.01 |
| 14 | S | 2,4,6-Tribromophenol | 0.104 | 0.120 | -15.4 | 196# | 0.00 |
| 15 | S | 2-Fluorobiphenyl | 1.673 | 1.646 | 1.6 | 164# | 0.00 |
| 16 | | Acenaphthylene | 1.834 | 1.743 | 5.0 | 161# | 0.00 |
| 17 | | Acenaphthene | 1.240 | 1.204 | 2.9 | 163# | -0.01 |
| 18 | | Fluorene | 1.502 | 1.421 | 5.4 | 162# | 0.00 |
| 19 | I | Phenanthrene-d10 | 1.000 | 1.000 | 0.0 | 165# | 0.00 |
| 20 | | 4,6-Dinitro-2-methylphenol | 0.037 | 0.031 | 16.2 | 155# | 0.00 |
| 21 | | 4-Bromophenyl-phenylether | 0.261 | 0.251 | 3.8 | 165# | -0.01 |
| 22 | | Hexachlorobenzene | 0.300 | 0.292 | 2.7 | 164# | -0.01 |
| 23 | | Atrazine | 0.166 | 0.156 | 6.0 | 170# | -0.01 |
| 24 | | Pentachlorophenol | 0.087 | 0.103 | -18.4 | 227# | 0.00 |
| 25 | | Phenanthrene | 1.259 | 1.218 | 3.3 | 165# | -0.01 |
| 26 | | Anthracene | 1.116 | 1.073 | 3.9 | 166# | -0.01 |
| 27 | SURR | Fluoranthene-d10 | 1.004 | 0.949 | 5.5 | 168# | 0.00 |
| 28 | | Fluoranthene | 1.381 | 1.338 | 3.1 | 169# | 0.00 |
| 29 | I | Chrysene-d12 | 1.000 | 1.000 | 0.0 | 179# | 0.00 |
| 30 | | Pyrene | 1.566 | 1.487 | 5.0 | 171# | 0.00 |
| 31 | S | Terphenyl-d14 | 0.812 | 0.735 | 9.5 | 164# | 0.00 |
| 32 | | Benzo(a)anthracene | 1.395 | 1.368 | 1.9 | 182# | 0.00 |
| 33 | | Chrysene | 1.496 | 1.485 | 0.7 | 178# | 0.00 |
| 34 | | Bis(2-ethylhexyl)phthalate | 0.414 | 0.462 | -11.6 | 220# | 0.00 |
| 35 | I | Perylene-d12 | 1.000 | 1.000 | 0.0 | 201# | -0.01 |
| 36 | | Indeno(1,2,3-cd)pyrene | 1.681 | 1.811 | -7.7 | 236# | -0.02 |
| 37 | | Benzo(b)fluoranthene | 1.575 | 1.500 | 4.8 | 194# | 0.00 |
| 38 | | Benzo(k)fluoranthene | 1.606 | 1.567 | 2.4 | 207# | 0.00 |
| 39 | C | Benzo(a)pyrene | 1.261 | 1.217 | 3.5 | 204# | 0.00 |
| 40 | | Dibenzo(a,h)anthracene | 1.342 | 1.448 | -7.9 | 241# | -0.02 |
| 41 | | Benzo(g,h,i)perylene | 1.506 | 1.515 | -0.6 | 210# | -0.01 |

(#) = Out of Range SPCC's out = 0 CCC's out = 0

**Instrument :**
BNA_N
**LabSampleId :**
SSTDCCC0.4

Sample Results: **BN037759.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN091725\
Data File : BN037759.D
Acq On : 18 Sep 2025 02:46
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 20 Sample Multiplier: 1

**Instrument :**
BNA_N
**LabSampleId :**
SSTDCCC0.4

Quant Time: Sep 18 05:02:26 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN091125.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Sep 11 14:20:01 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 | 160 | 0.00 |
| 2 | | 1,4-Dioxane | 0.400 | 0.415 | -3.7 | 164 | 0.00 |
| 3 | | n-Nitrosodimethylamine | 0.400 | 0.376 | 6.0 | 146 | 0.00 |
| 4 | S | 2-Fluorophenol | 0.400 | 0.409 | -2.2 | 169 | 0.00 |
| 5 | S | Phenol-d6 | 0.400 | 0.396 | 1.0 | 164 | 0.00 |
| 6 | | bis(2-Chloroethyl)ether | 0.400 | 0.397 | 0.8 | 158 | 0.00 |
| 7 | I | Naphthalene-d8 | 0.400 | 0.400 | 0.0 | 164 | -0.01 |
| 8 | S | Nitrobenzene-d5 | 0.400 | 0.391 | 2.3 | 164 | -0.01 |
| 9 | | Naphthalene | 0.400 | 0.389 | 2.8 | 162 | 0.00 |
| 10 | | Hexachlorobutadiene | 0.400 | 0.385 | 3.8 | 158 | -0.01 |
| 11 | SURR | 2-Methylnaphthalene-d10 | 0.400 | 0.386 | 3.5 | 168 | -0.01 |
| 12 | | 2-Methylnaphthalene | 0.400 | 0.389 | 2.8 | 163 | 0.00 |
| 13 | I | Acenaphthene-d10 | 0.400 | 0.400 | 0.0 | 164 | -0.01 |
| 14 | S | 2,4,6-Tribromophenol | 0.400 | 0.460 | -15.0 | 196 | 0.00 |
| 15 | S | 2-Fluorobiphenyl | 0.400 | 0.393 | 1.8 | 164 | 0.00 |
| 16 | | Acenaphthylene | 0.400 | 0.380 | 5.0 | 161 | 0.00 |
| 17 | | Acenaphthene | 0.400 | 0.388 | 3.0 | 163 | -0.01 |
| 18 | | Fluorene | 0.400 | 0.378 | 5.5 | 162 | 0.00 |
| 19 | I | Phenanthrene-d10 | 0.400 | 0.400 | 0.0 | 165 | 0.00 |
| 20 | | 4,6-Dinitro-2-methylphenol | 0.400 | 0.334 | 16.5 | 155 | 0.00 |
| 21 | | 4-Bromophenyl-phenylether | 0.400 | 0.385 | 3.8 | 165 | -0.01 |
| 22 | | Hexachlorobenzene | 0.400 | 0.389 | 2.8 | 164 | -0.01 |
| 23 | | Atrazine | 0.400 | 0.375 | 6.3 | 170 | -0.01 |
| 24 | | Pentachlorophenol | 0.400 | 0.471 | -17.7 | 227 | 0.00 |
| 25 | | Phenanthrene | 0.400 | 0.387 | 3.3 | 165 | -0.01 |
| 26 | | Anthracene | 0.400 | 0.385 | 3.8 | 166 | -0.01 |
| 27 | SURR | Fluoranthene-d10 | 0.400 | 0.378 | 5.5 | 168 | 0.00 |
| 28 | | Fluoranthene | 0.400 | 0.387 | 3.3 | 169 | 0.00 |
| 29 | I | Chrysene-d12 | 0.400 | 0.400 | 0.0 | 179 | 0.00 |
| 30 | | Pyrene | 0.400 | 0.380 | 5.0 | 171 | 0.00 |
| 31 | S | Terphenyl-d14 | 0.400 | 0.362 | 9.5 | 164 | 0.00 |
| 32 | | Benzo(a)anthracene | 0.400 | 0.392 | 2.0 | 182 | 0.00 |
| 33 | | Chrysene | 0.400 | 0.397 | 0.8 | 178 | 0.00 |
| 34 | | Bis(2-ethylhexyl)phthalate | 0.400 | 0.446 | -11.5 | 220 | 0.00 |
| 35 | I | Perylene-d12 | 0.400 | 0.400 | 0.0 | 201 | -0.01 |
| 36 | | Indeno(1,2,3-cd)pyrene | 0.400 | 0.431 | -7.7 | 236 | -0.02 |
| 37 | | Benzo(b)fluoranthene | 0.400 | 0.381 | 4.8 | 194 | 0.00 |
| 38 | | Benzo(k)fluoranthene | 0.400 | 0.390 | 2.5 | 207 | 0.00 |
| 39 | C | Benzo(a)pyrene | 0.400 | 0.386 | 3.5 | 204 | 0.00 |
| 40 | | Dibenzo(a,h)anthracene | 0.400 | 0.432 | -8.0 | 241 | -0.02 |
| 41 | | Benzo(g,h,i)perylene | 0.400 | 0.403 | -0.8 | 210 | -0.01 |

(#) = Out of Range SPCC's out = 0 CCC's out = 0

**Instrument :**
BNA_N
**LabSampleId :**
SSTDCCC0.4

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

7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: Alliance Contract: AECO15

Lab Code: ACE SDG No.: Q3095

Instrument ID: BNA_N Calibration Date/Time: 09/18/2025 13:16

Lab File ID: BN037774.D Init. Calib. Date(s): 09/11/2025 09/11/2025

EPA Sample No.: SSTDCCC0.4EC Init. Calib. Time(s): 09:56 13:33

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

| COMPOUND | RRF | RRF0.4 | MIN RRF | %D | MAX%D |
|---|---|---|---|---|---|
| 2-Methylnaphthalene-d10 | 0.530 | 0.506 | | -4.5 | 50.0 |
| Fluoranthene-d10 | 1.004 | 0.949 | | -5.5 | 50.0 |
| 2-Fluorophenol | 0.918 | 0.915 | | -0.3 | 50.0 |
| Phenol-d6 | 1.191 | 1.160 | | -2.6 | 50.0 |
| Nitrobenzene-d5 | 0.293 | 0.296 | | 1.0 | 50.0 |
| 2-Fluorobiphenyl | 1.673 | 1.646 | | -1.6 | 50.0 |
| 2,4,6-Tribromophenol | 0.104 | 0.126 | | 21.2 | 50.0 |
| Terphenyl-d14 | 0.812 | 0.758 | | -6.7 | 50.0 |
| 1,4-Dioxane | 0.417 | 0.425 | | 1.9 | 50.0 |

All other compounds must meet a minimum RRF of 0.010.

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN091725\
Data File : BN037774.D
Acq On : 18 Sep 2025 13:16
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 35 Sample Multiplier: 1

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4EC

Quant Time: Sep 18 13:43:05 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN091125.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Sep 11 14:20:01 2025
Response via : Initial Calibration

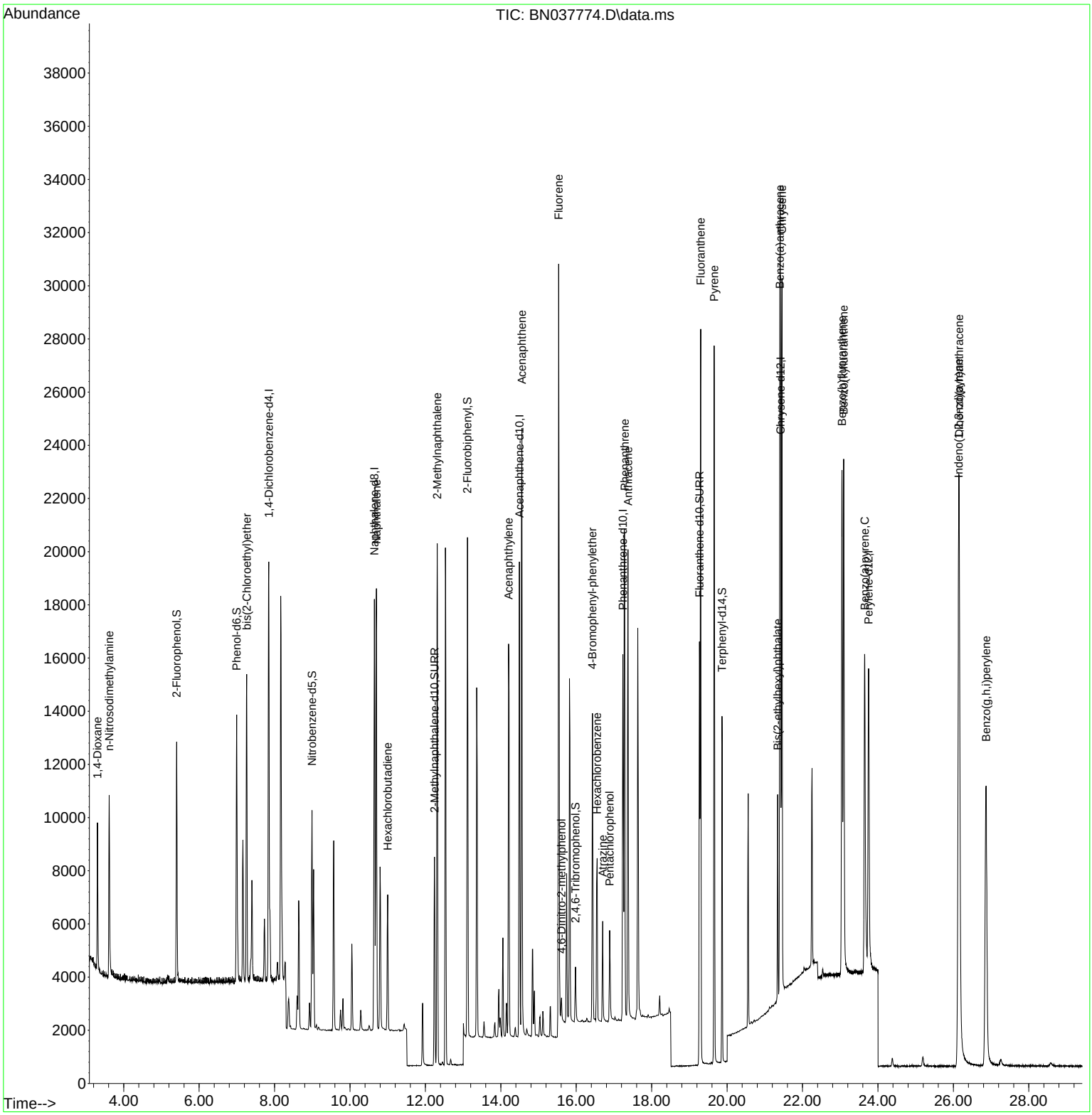
| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| Internal Standards | | | | | | | |
| 1) 1,4-Dichlorobenzene-d4 | 7.847 | 152 | 7889 | 0.400 | ng | | 0.00 |
| 7) Naphthalene-d8 | 10.648 | 136 | 20894 | 0.400 | ng | | 0.00 |
| 13) Acenaphthene-d10 | 14.494 | 164 | 9741 | 0.400 | ng | | 0.00 |
| 19) Phenanthrene-d10 | 17.235 | 188 | 18065 | 0.400 | ng | | 0.00 |
| 29) Chrysene-d12 | 21.420 | 240 | 16005 | 0.400 | ng | | 0.00 |
| 35) Perylene-d12 | 23.753 | 264 | 16216 | 0.400 | ng | | 0.00 |
| System Monitoring Compounds | | | | | | | |
| 4) 2-Fluorophenol | 5.406 | 112 | 7221 | 0.399 | ng | | 0.00 |
| 5) Phenol-d6 | 6.995 | 99 | 9149 | 0.390 | ng | | 0.00 |
| 8) Nitrobenzene-d5 | 8.993 | 82 | 6183 | 0.405 | ng | | 0.00 |
| 11) 2-Methylnaphthalene-d10 | 12.243 | 152 | 10579 | 0.382 | ng | | 0.00 |
| 14) 2,4,6-Tribromophenol | 15.982 | 330 | 1232 | 0.485 | ng | | 0.00 |
| 15) 2-Fluorobiphenyl | 13.115 | 172 | 16033 | 0.394 | ng | | 0.00 |
| 27) Fluoranthene-d10 | 19.266 | 212 | 17138 | 0.378 | ng | | 0.00 |
| 31) Terphenyl-d14 | 19.866 | 244 | 12130 | 0.373 | ng | | 0.00 |
| Target Compounds | | | | | | | Qvalue |
| 2) 1,4-Dioxane | 3.304 | 88 | 3351 | 0.408 | ng | | 96 |
| 3) n-Nitrosodimethylamine | 3.615 | 42 | 4085 | 0.381 | ng | | 91 |
| 6) bis(2-Chloroethyl)ether | 7.262 | 93 | 8348 | 0.398 | ng | | 98 |
| 9) Naphthalene | 10.701 | 128 | 22536 | 0.395 | ng | | 100 |
| 10) Hexachlorobutadiene | 11.000 | 225 | 4013 | 0.388 | ng | # | 99 |
| 12) 2-Methylnaphthalene | 12.314 | 142 | 13704 | 0.388 | ng | | 99 |
| 16) Acenaphthylene | 14.206 | 152 | 16996 | 0.380 | ng | | 99 |
| 17) Acenaphthene | 14.559 | 154 | 11822 | 0.391 | ng | | 99 |
| 18) Fluorene | 15.535 | 166 | 14211 | 0.388 | ng | | 100 |
| 20) 4,6-Dinitro-2-methylph... | 15.609 | 198 | 668 | 0.399 | ng | | 89 |
| 21) 4-Bromophenyl-phenylether | 16.429 | 248 | 4506 | 0.383 | ng | # | 69 |
| 22) Hexachlorobenzene | 16.553 | 284 | 5415 | 0.400 | ng | | 98 |
| 23) Atrazine | 16.702 | 200 | 2912 | 0.389 | ng | | 98 |
| 24) Pentachlorophenol | 16.888 | 266 | 1796 | 0.457 | ng | | 97 |
| 25) Phenanthrene | 17.285 | 178 | 22453 | 0.395 | ng | | 100 |
| 26) Anthracene | 17.372 | 178 | 19091 | 0.379 | ng | | 99 |
| 28) Fluoranthene | 19.299 | 202 | 24335 | 0.390 | ng | | 100 |
| 30) Pyrene | 19.657 | 202 | 24230 | 0.387 | ng | | 100 |
| 32) Benzo(a)anthracene | 21.402 | 228 | 21339 | 0.382 | ng | | 99 |
| 33) Chrysene | 21.456 | 228 | 23785 | 0.397 | ng | | 99 |
| 34) Bis(2-ethylhexyl)phtha... | 21.339 | 149 | 7017 | 0.424 | ng | | 98 |
| 36) Indeno(1,2,3-cd)pyrene | 26.139 | 276 | 29869 | 0.438 | ng | | 100 |
| 37) Benzo(b)fluoranthene | 23.046 | 252 | 24782 | 0.388 | ng | | 98 |
| 38) Benzo(k)fluoranthene | 23.092 | 252 | 26275 | 0.404 | ng | | 99 |
| 39) Benzo(a)pyrene | 23.648 | 252 | 19411 | 0.380 | ng | | 98 |
| 40) Dibenzo(a,h)anthracene | 26.153 | 278 | 24050 | 0.442 | ng | | 97 |
| 41) Benzo(g,h,i)perylene | 26.867 | 276 | 24546 | 0.402 | ng | | 98 |

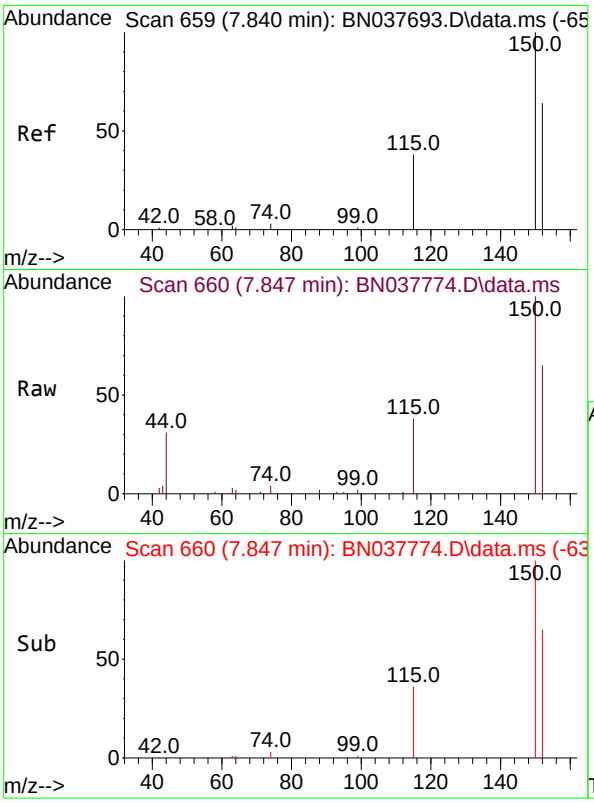
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN091725\
Data File : BN037774.D
Acq On : 18 Sep 2025 13:16
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 35 Sample Multiplier: 1

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4EC

Quant Time: Sep 18 13:43:05 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN091125.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Sep 11 14:20:01 2025
Response via : Initial Calibration



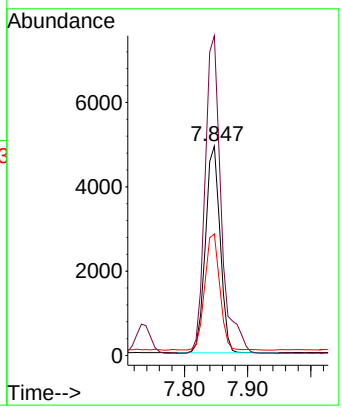


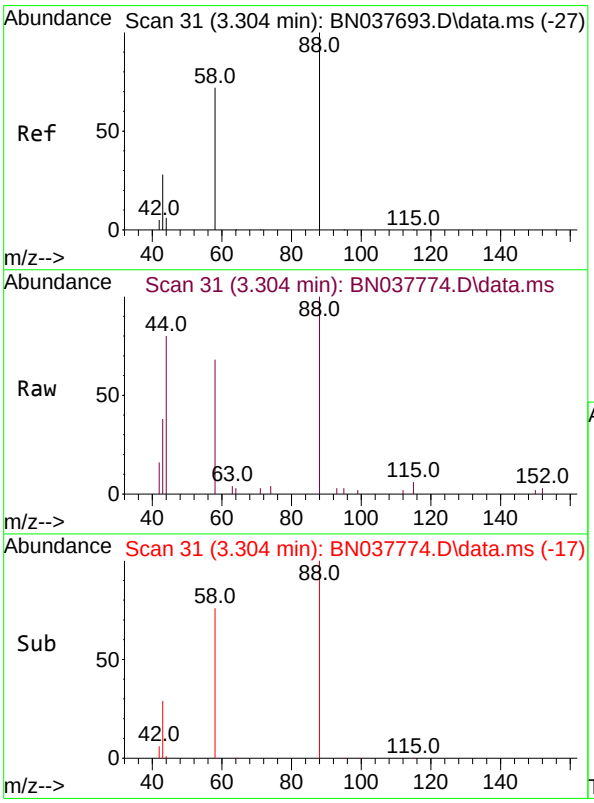

#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.847 min Scan# 6
Delta R.T. 0.007 min
Lab File: BN037774.D
Acq: 18 Sep 2025 13:16

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4EC

Tgt Ion:152 Resp: 7889

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 150 | 152.7 | 124.5 | 186.7 |
| 115 | 58.1 | 49.2 | 73.8 |

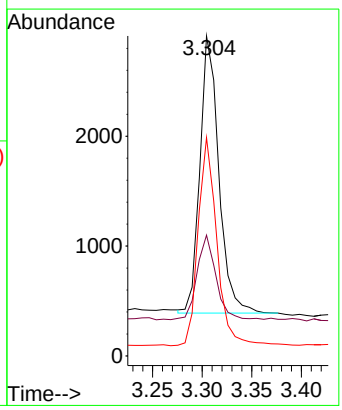


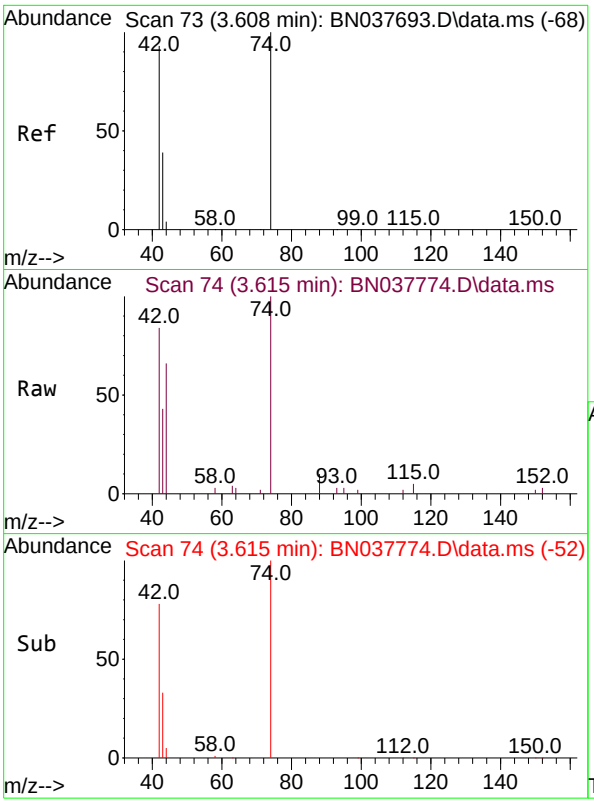




#2
1,4-Dioxane
Concen: 0.408 ng
RT: 3.304 min Scan# 31
Delta R.T. -0.000 min
Lab File: BN037774.D
Acq: 18 Sep 2025 13:16

Tgt Ion: 88 Resp: 3351

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 88 | 100 | | |
| 43 | 30.6 | 26.8 | 40.2 |
| 58 | 74.3 | 61.9 | 92.9 |



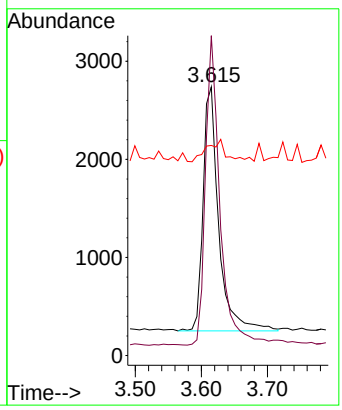


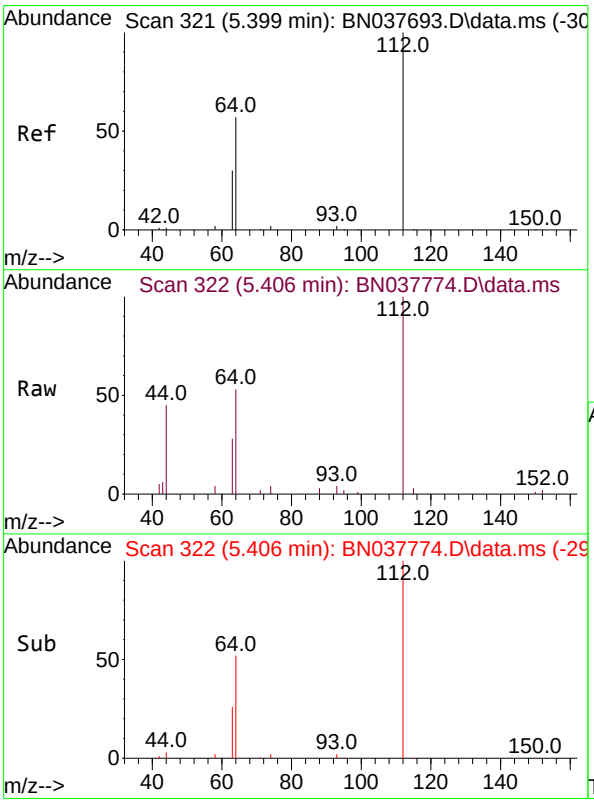

#3
n-Nitrosodimethylamine
Concen: 0.381 ng
RT: 3.615 min Scan# 74
Delta R.T. 0.007 min
Lab File: BN037774.D
Acq: 18 Sep 2025 13:16

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4EC

Tgt Ion: 42 Resp: 4085

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 42 | 100 | | |
| 74 | 118.1 | 86.0 | 129.0 |
| 44 | 11.0 | 8.4 | 12.6 |

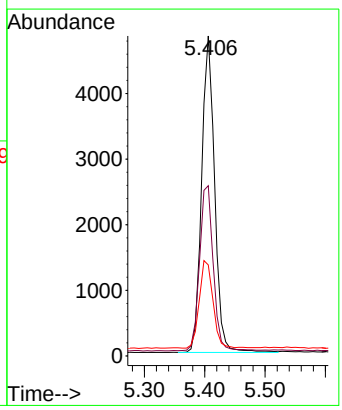


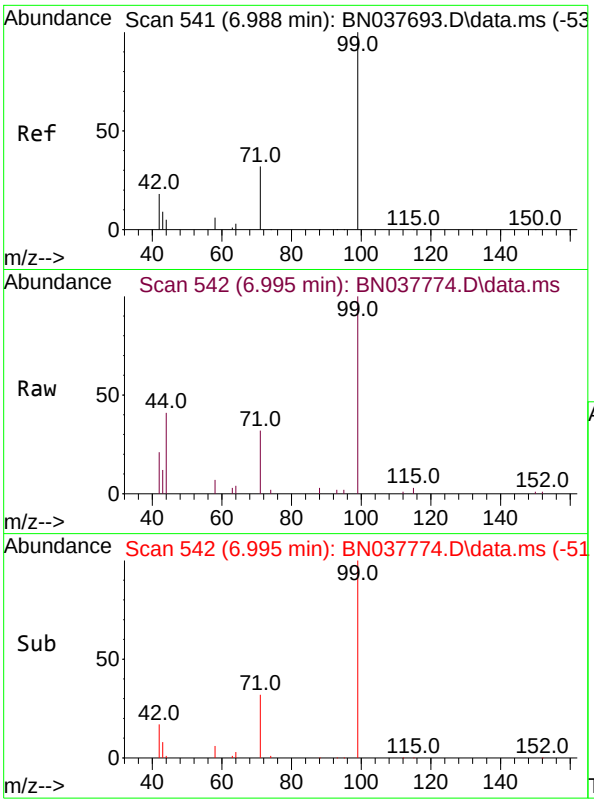




#4
2-Fluorophenol
Concen: 0.399 ng
RT: 5.406 min Scan# 322
Delta R.T. 0.007 min
Lab File: BN037774.D
Acq: 18 Sep 2025 13:16

Tgt Ion:112 Resp: 7221

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 112 | 100 | | |
| 64 | 55.2 | 44.9 | 67.3 |
| 63 | 29.2 | 24.7 | 37.1 |



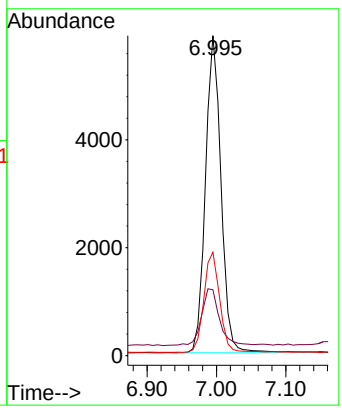


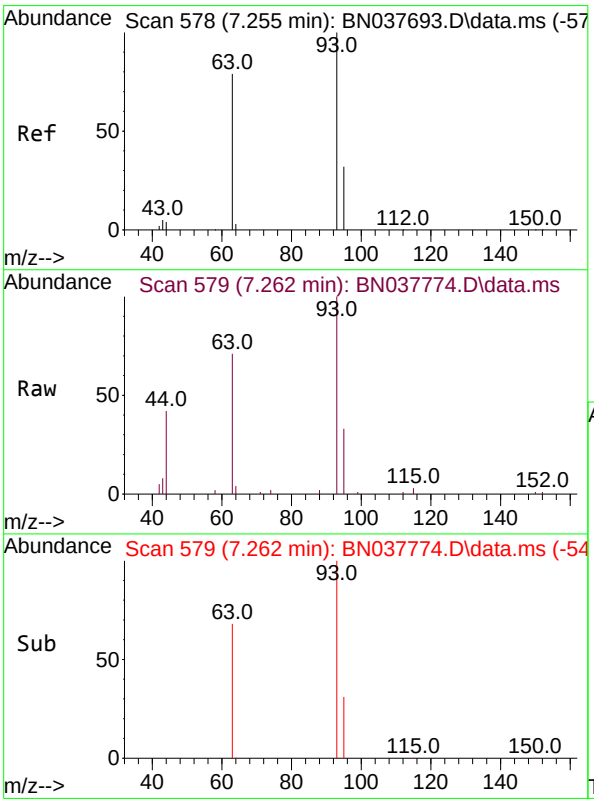

#5
Phenol-d6
Concen: 0.390 ng
RT: 6.995 min Scan# 54
Delta R.T. 0.007 min
Lab File: BN037774.D
Acq: 18 Sep 2025 13:16

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4EC

Tgt Ion: 99 Resp: 9149

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 99 | 100 | | |
| 42 | 20.7 | 16.6 | 24.8 |
| 71 | 32.0 | 26.7 | 40.1 |

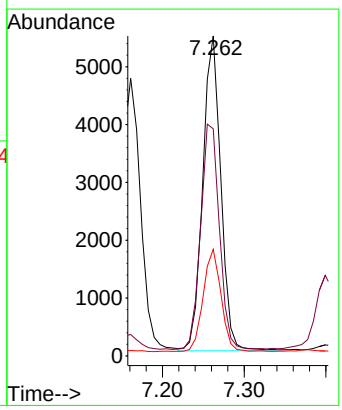


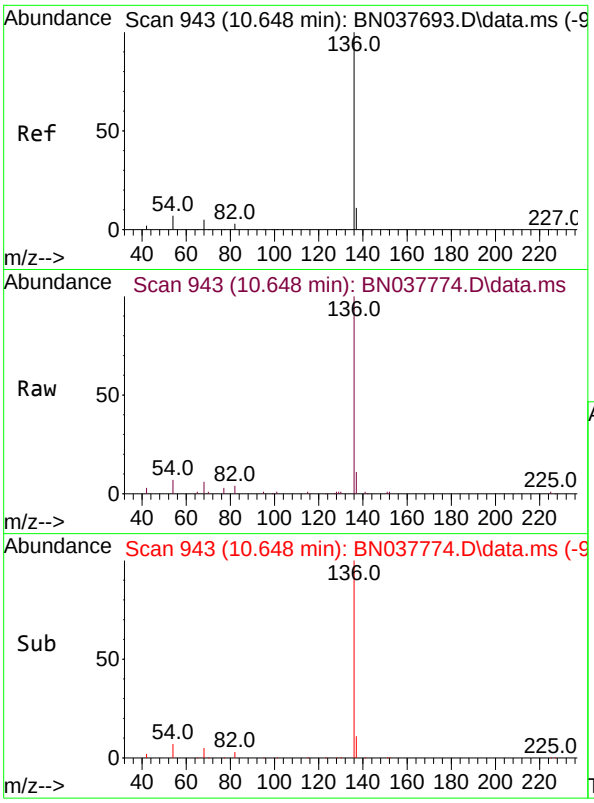




#6
bis(2-Chloroethyl)ether
Concen: 0.398 ng
RT: 7.262 min Scan# 579
Delta R.T. 0.007 min
Lab File: BN037774.D
Acq: 18 Sep 2025 13:16

Tgt Ion: 93 Resp: 8348

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 93 | 100 | | |
| 63 | 74.1 | 60.6 | 90.8 |
| 95 | 32.0 | 26.0 | 39.0 |



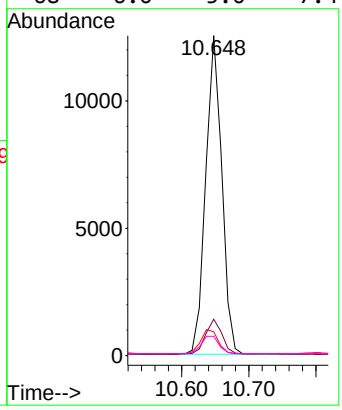


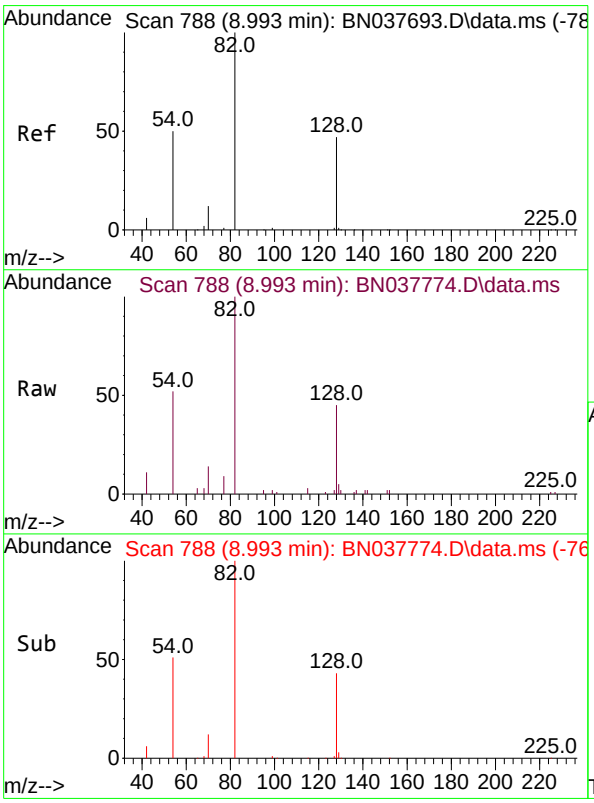

#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.648 min Scan# 94
Delta R.T. -0.000 min
Lab File: BN037774.D
Acq: 18 Sep 2025 13:16

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4EC

Tgt Ion:136 Resp: 20894

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 136 | 100 | | |
| 137 | 11.4 | 9.1 | 13.7 |
| 54 | 7.4 | 6.3 | 9.5 |
| 68 | 6.0 | 5.0 | 7.4 |

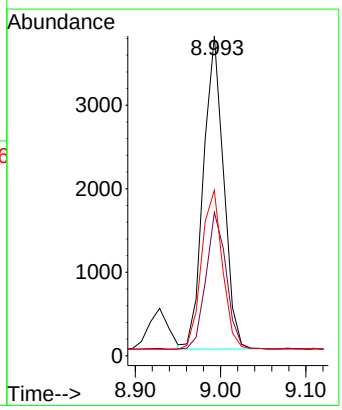


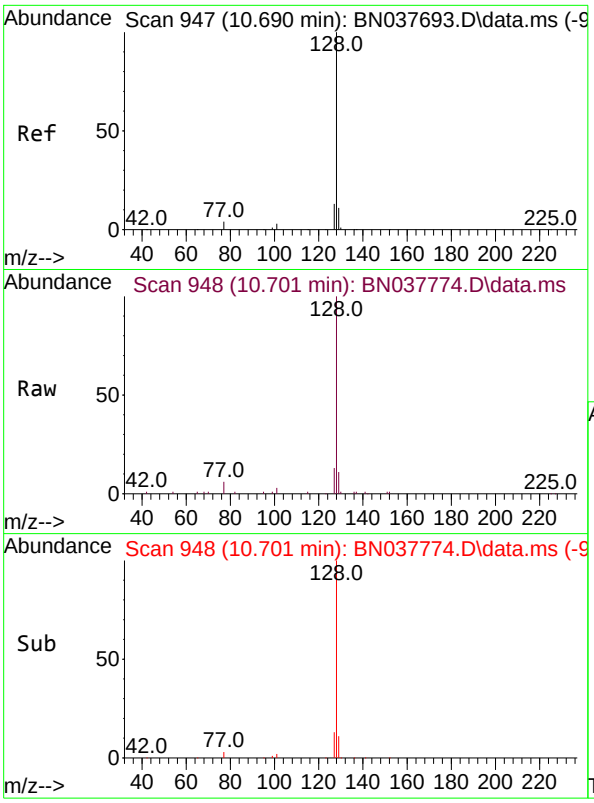




#8
Nitrobenzene-d5
Concen: 0.405 ng
RT: 8.993 min Scan# 788
Delta R.T. -0.000 min
Lab File: BN037774.D
Acq: 18 Sep 2025 13:16

Tgt Ion: 82 Resp: 6183

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 82 | 100 | | |
| 128 | 44.9 | 38.3 | 57.5 |
| 54 | 51.8 | 41.4 | 62.2 |



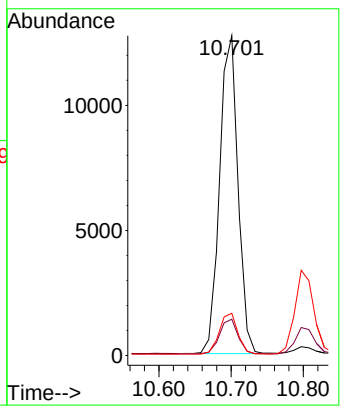


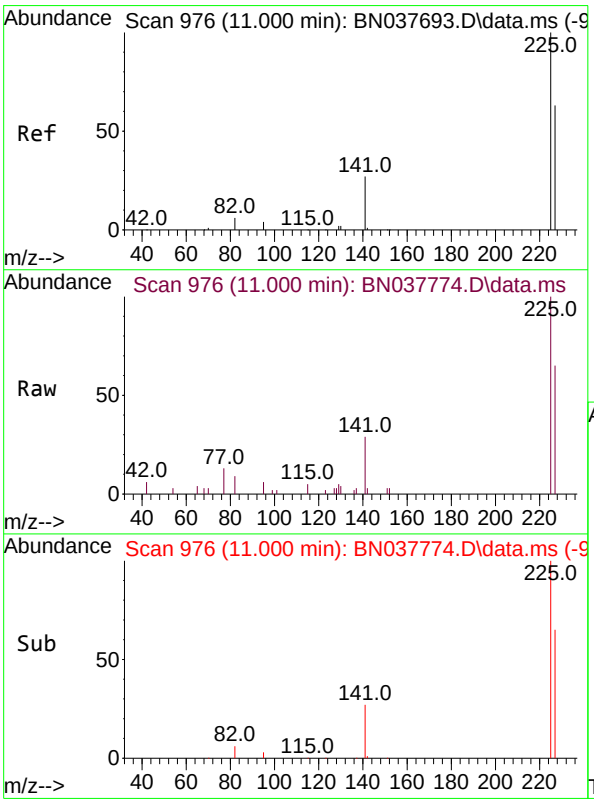

#9
Naphthalene
Concen: 0.395 ng
RT: 10.701 min Scan# 94
Delta R.T. 0.011 min
Lab File: BN037774.D
Acq: 18 Sep 2025 13:16

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4EC

Tgt Ion:128 Resp: 22536

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 128 | 100 | | |
| 129 | 11.4 | 9.1 | 13.7 |
| 127 | 13.2 | 10.9 | 16.3 |

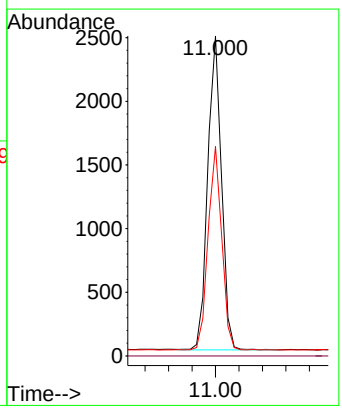


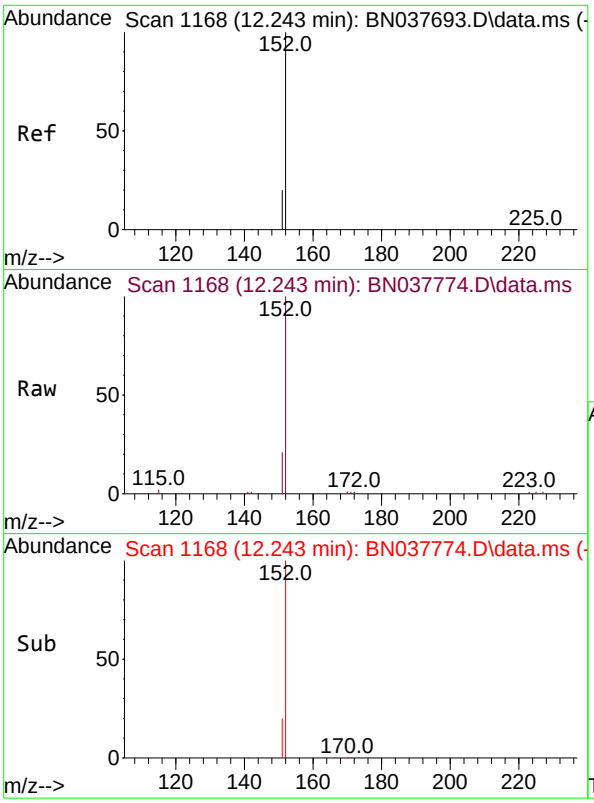




#10
Hexachlorobutadiene
Concen: 0.388 ng
RT: 11.000 min Scan# 976
Delta R.T. -0.000 min
Lab File: BN037774.D
Acq: 18 Sep 2025 13:16

Tgt Ion:225 Resp: 4013

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 225 | 100 | | |
| 223 | 0.0 | 0.0 | 0.0 |
| 227 | 64.4 | 50.9 | 76.3 |



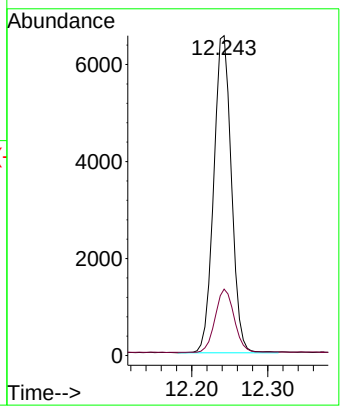


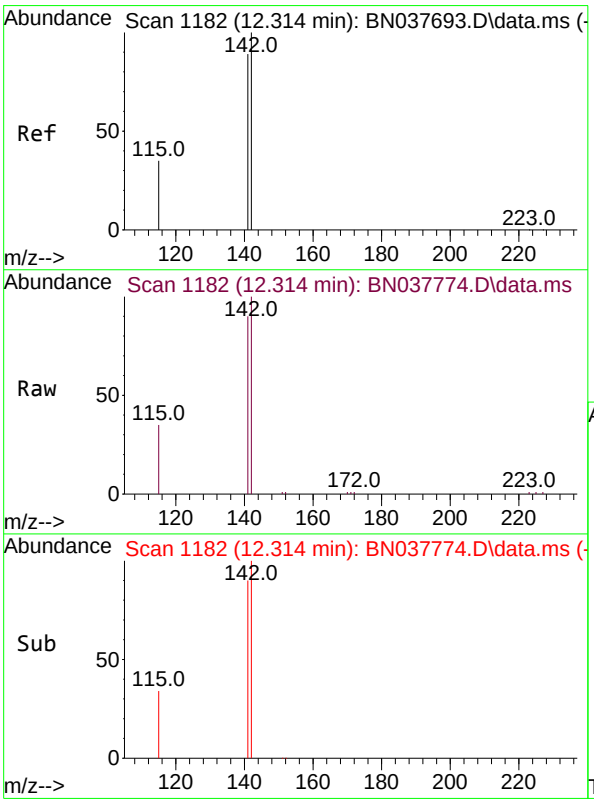

#11
2-Methylnaphthalene-d10
Concen: 0.382 ng
RT: 12.243 min Scan# 11
Delta R.T. -0.000 min
Lab File: BN037774.D
Acq: 18 Sep 2025 13:16

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4EC

Tgt Ion:152 Resp: 10579

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 151 | 21.4 | 17.0 | 25.6 |

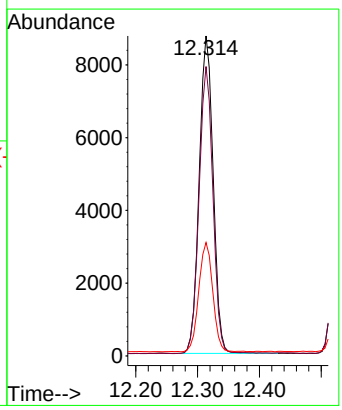


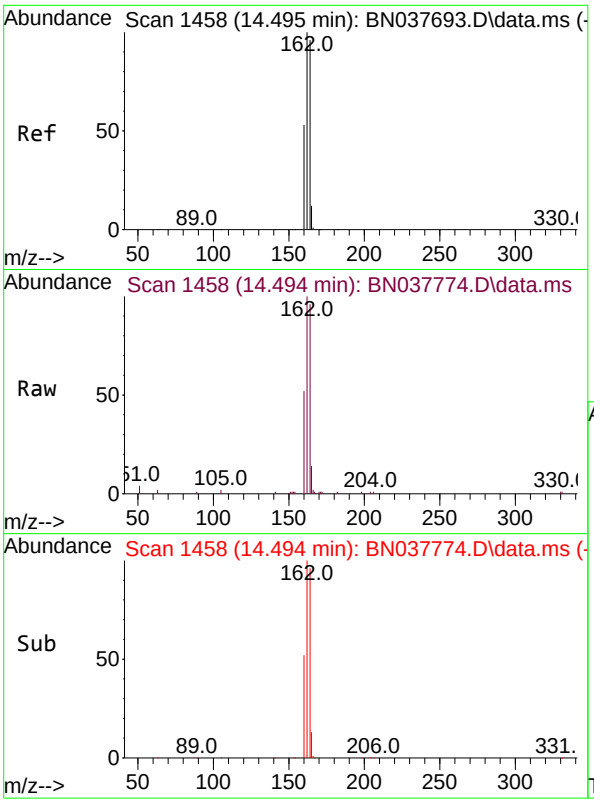




#12
2-Methylnaphthalene
Concen: 0.388 ng
RT: 12.314 min Scan# 1182
Delta R.T. -0.000 min
Lab File: BN037774.D
Acq: 18 Sep 2025 13:16

Tgt Ion:142 Resp: 13704

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 142 | 100 | | |
| 141 | 90.4 | 71.6 | 107.4 |
| 115 | 35.4 | 28.6 | 43.0 |



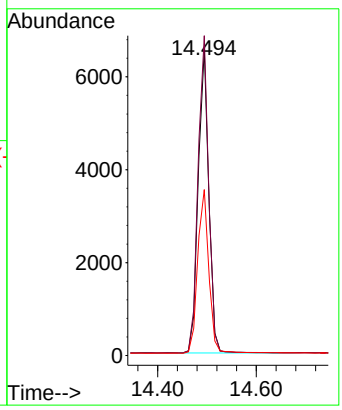


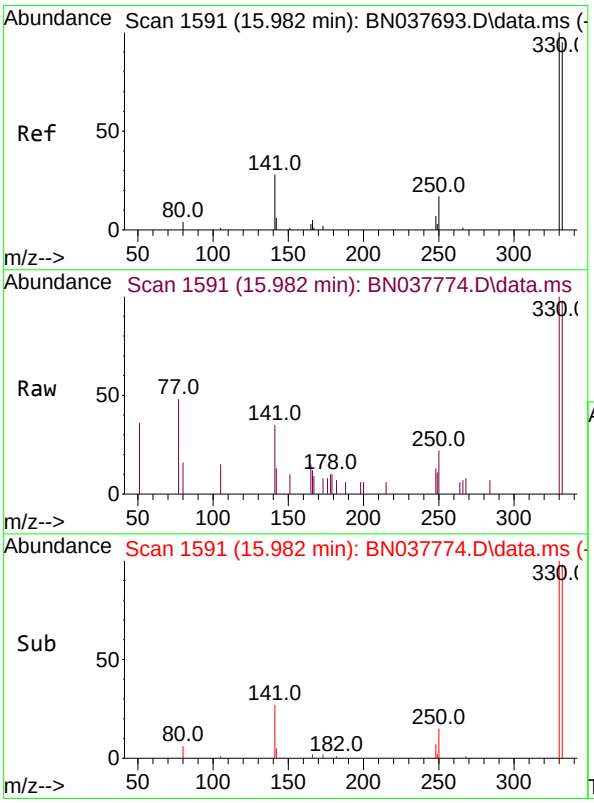

#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.494 min Scan# 14
Delta R.T. -0.000 min
Lab File: BN037774.D
Acq: 18 Sep 2025 13:16

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4EC

Tgt Ion:164 Resp: 9741

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 164 | 100 | | |
| 162 | 104.5 | 83.1 | 124.7 |
| 160 | 54.2 | 44.3 | 66.5 |

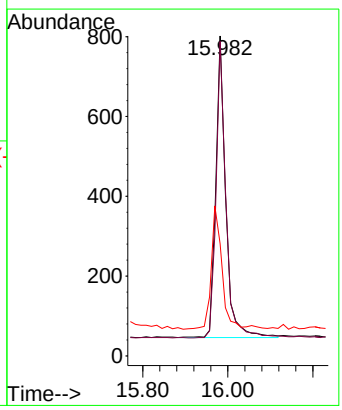


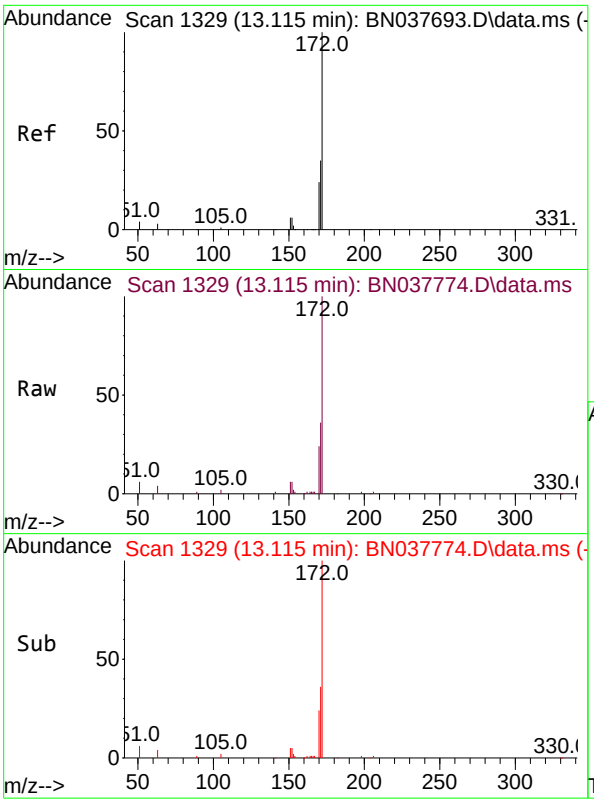




#14
2,4,6-Tribromophenol
Concen: 0.485 ng
RT: 15.982 min Scan# 1591
Delta R.T. -0.000 min
Lab File: BN037774.D
Acq: 18 Sep 2025 13:16

Tgt Ion:330 Resp: 1232

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 330 | 100 | | |
| 332 | 97.6 | 75.3 | 112.9 |
| 141 | 43.4 | 35.0 | 52.4 |



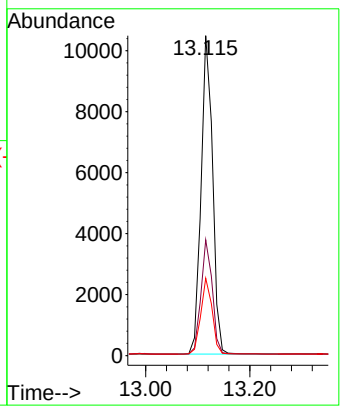


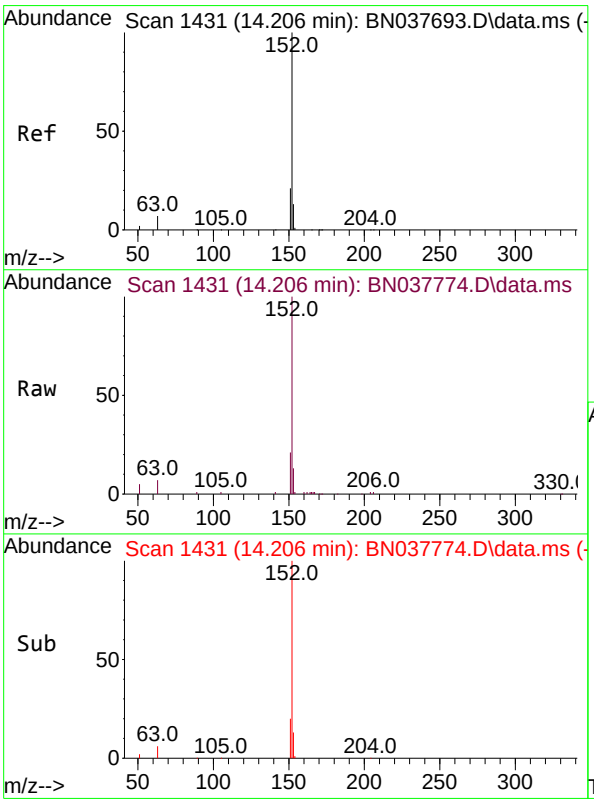

#15
2-Fluorobiphenyl
Concen: 0.394 ng
RT: 13.115 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN037774.D
Acq: 18 Sep 2025 13:16

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4EC

Tgt Ion:172 Resp: 16033

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 172 | 100 | | |
| 171 | 36.2 | 28.6 | 43.0 |
| 170 | 24.2 | 19.8 | 29.8 |

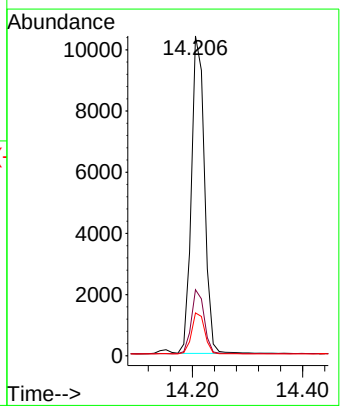


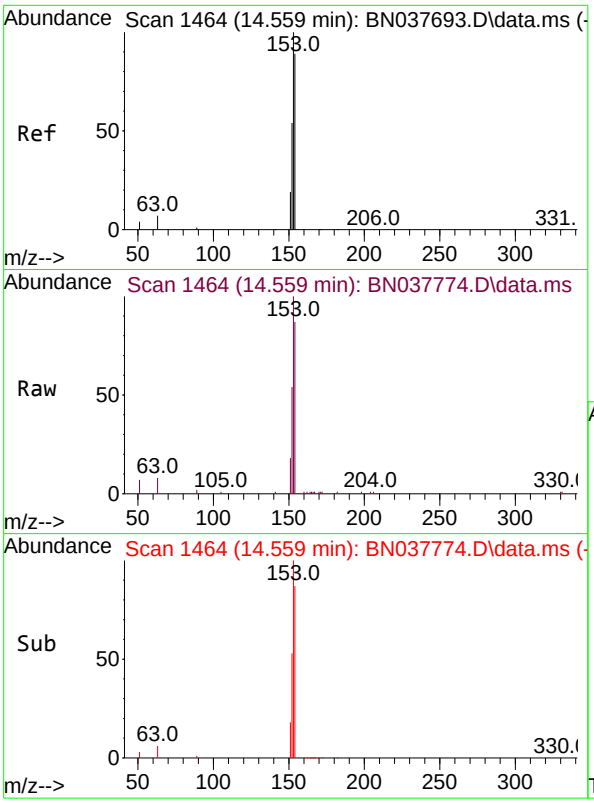




#16
Acenaphthylene
Concen: 0.380 ng
RT: 14.206 min Scan# 1431
Delta R.T. -0.000 min
Lab File: BN037774.D
Acq: 18 Sep 2025 13:16

Tgt Ion:152 Resp: 16996

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 151 | 19.9 | 16.2 | 24.2 |
| 153 | 13.2 | 10.4 | 15.6 |



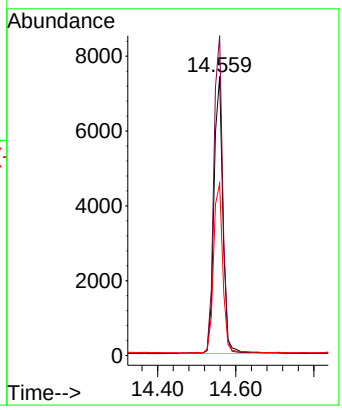


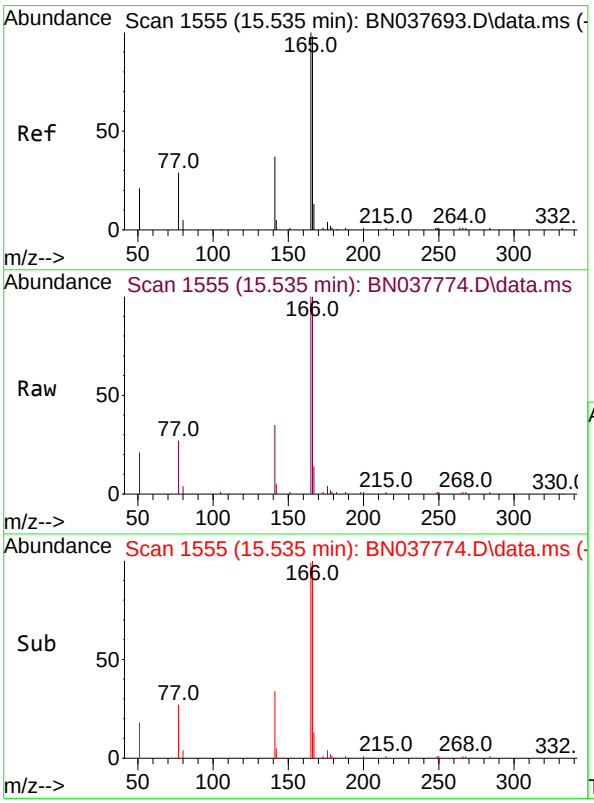

#17
Acenaphthene
Concen: 0.391 ng
RT: 14.559 min Scan# 14
Delta R.T. -0.000 min
Lab File: BN037774.D
Acq: 18 Sep 2025 13:16

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4EC

Tgt Ion:154 Resp: 11822

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 154 | 100 | | |
| 153 | 113.9 | 89.8 | 134.8 |
| 152 | 63.1 | 50.2 | 75.2 |

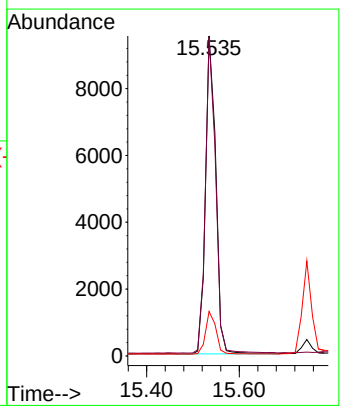


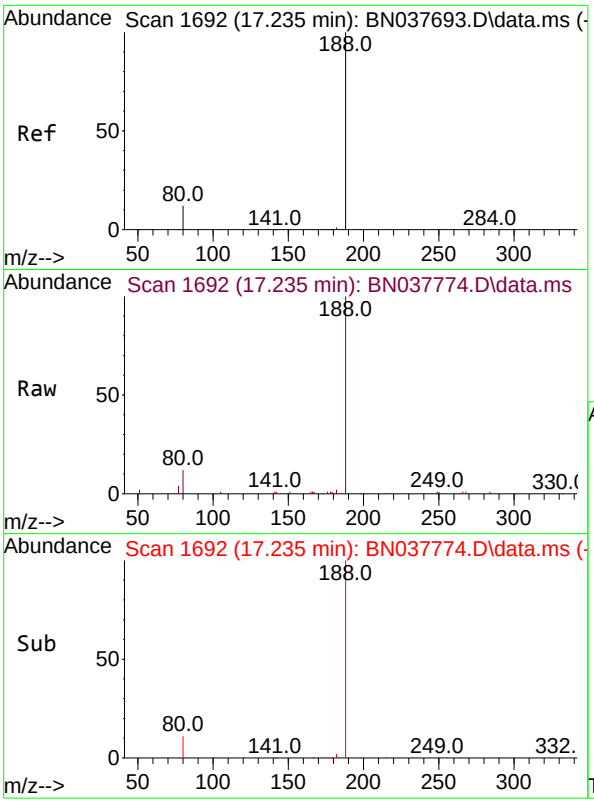




#18
Fluorene
Concen: 0.388 ng
RT: 15.535 min Scan# 1555
Delta R.T. -0.000 min
Lab File: BN037774.D
Acq: 18 Sep 2025 13:16

Tgt Ion:166 Resp: 14211

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 166 | 100 | | |
| 165 | 99.7 | 79.6 | 119.4 |
| 167 | 13.7 | 10.6 | 16.0 |



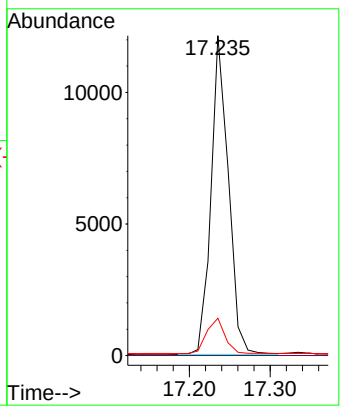


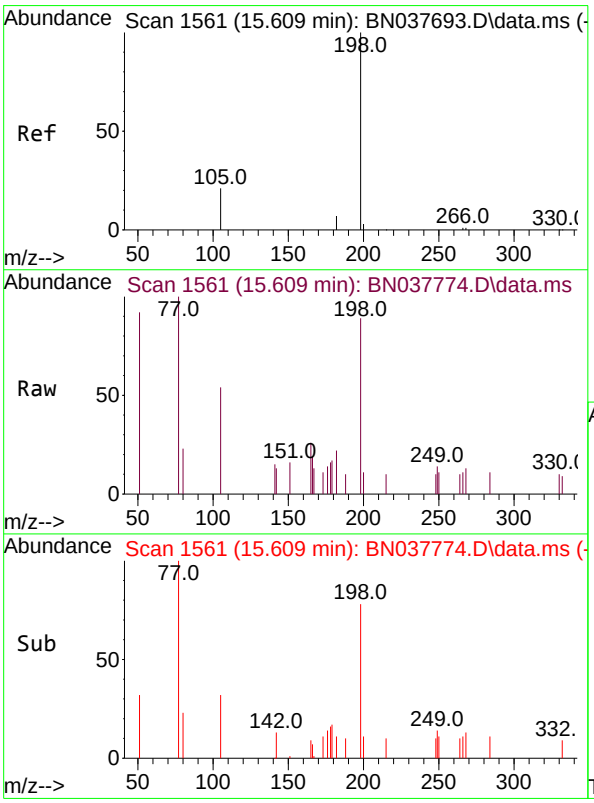

#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.235 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN037774.D
Acq: 18 Sep 2025 13:16

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4EC

Tgt Ion:188 Resp: 18065

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 188 | 100 | | |
| 94 | 0.0 | 0.0 | 0.0 |
| 80 | 11.7 | 10.6 | 15.8 |

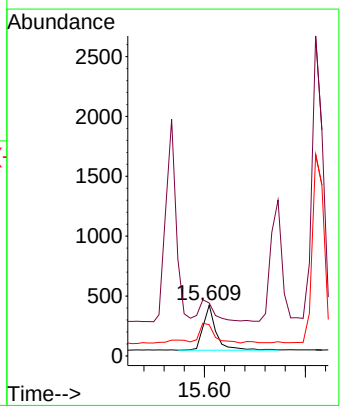


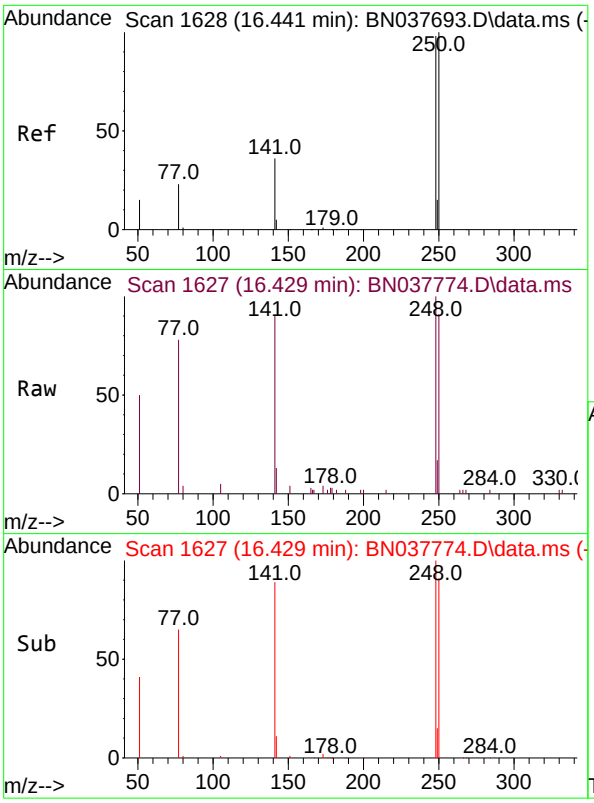




#20
4,6-Dinitro-2-methylphenol
Concen: 0.399 ng
RT: 15.609 min Scan# 1561
Delta R.T. 0.000 min
Lab File: BN037774.D
Acq: 18 Sep 2025 13:16

Tgt Ion:198 Resp: 668

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 198 | 100 | | |
| 51 | 104.0 | 95.1 | 142.7 |
| 105 | 61.2 | 53.8 | 80.6 |



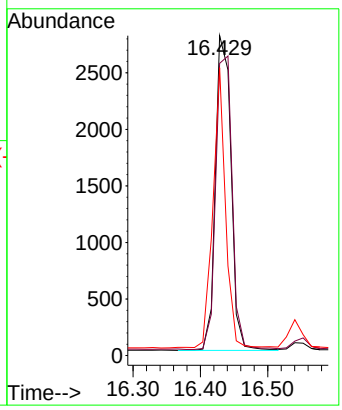


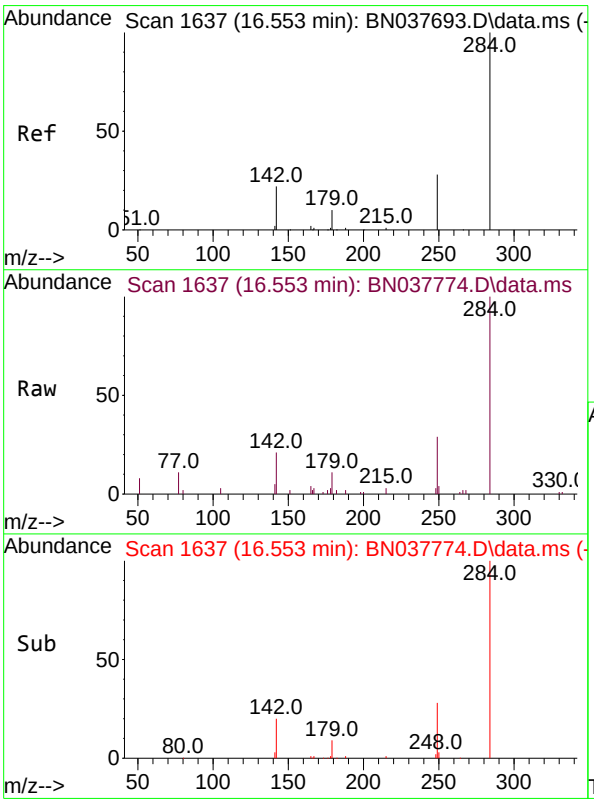

#21
4-Bromophenyl-phenylether
Concen: 0.383 ng
RT: 16.429 min Scan# 1
Delta R.T. -0.013 min
Lab File: BN037774.D
Acq: 18 Sep 2025 13:16

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4EC

Tgt Ion:248 Resp: 4506

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 248 | 100 | | |
| 250 | 91.3 | 81.5 | 122.3 |
| 141 | 90.0 | 30.8 | 46.2# |

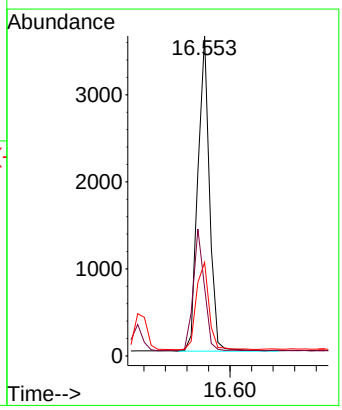


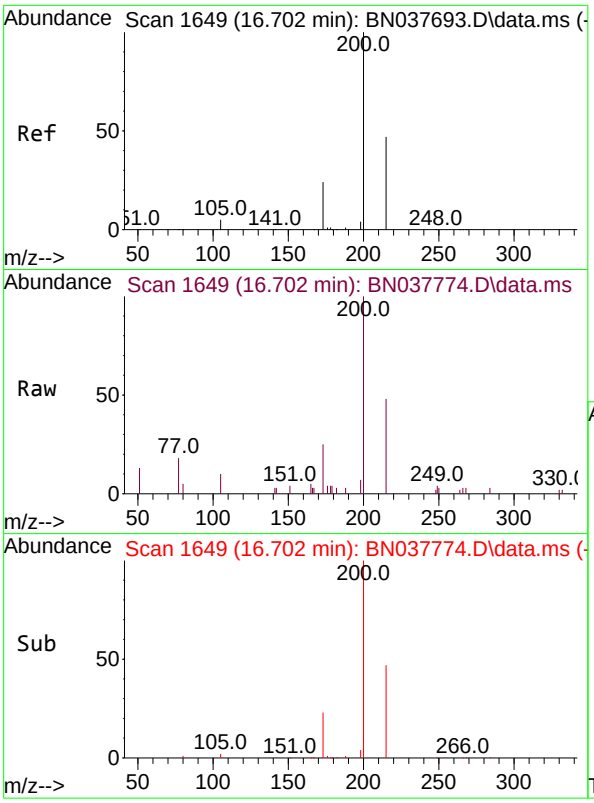




#22
Hexachlorobenzene
Concen: 0.400 ng
RT: 16.553 min Scan# 1637
Delta R.T. -0.000 min
Lab File: BN037774.D
Acq: 18 Sep 2025 13:16

Tgt Ion:284 Resp: 5415

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 284 | 100 | | |
| 142 | 37.4 | 30.9 | 46.3 |
| 249 | 30.2 | 24.8 | 37.2 |



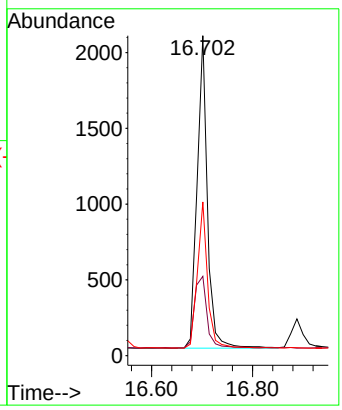


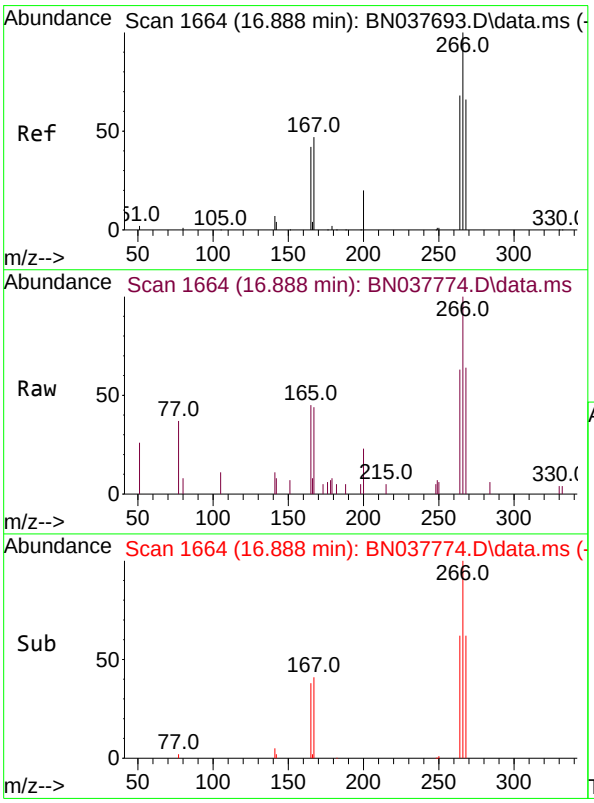

#23
Atrazine
Concen: 0.389 ng
RT: 16.702 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN037774.D
Acq: 18 Sep 2025 13:16

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4EC

Tgt Ion:200 Resp: 2912

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 200 | 100 | | |
| 173 | 24.8 | 21.4 | 32.2 |
| 215 | 48.0 | 39.2 | 58.8 |

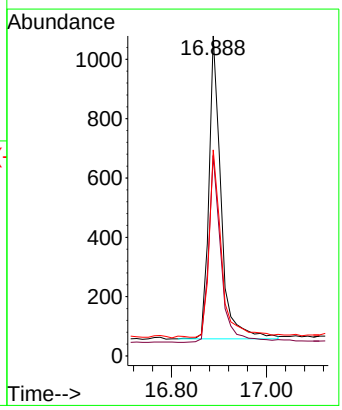


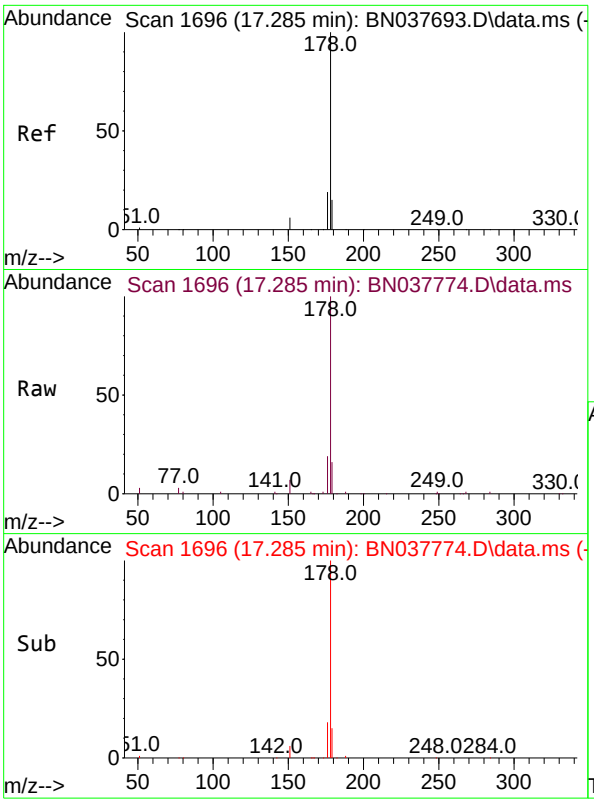




#24
Pentachlorophenol
Concen: 0.457 ng
RT: 16.888 min Scan# 1664
Delta R.T. -0.000 min
Lab File: BN037774.D
Acq: 18 Sep 2025 13:16

Tgt Ion:266 Resp: 1796

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 266 | 100 | | |
| 264 | 63.0 | 51.6 | 77.4 |
| 268 | 63.9 | 53.2 | 79.8 |



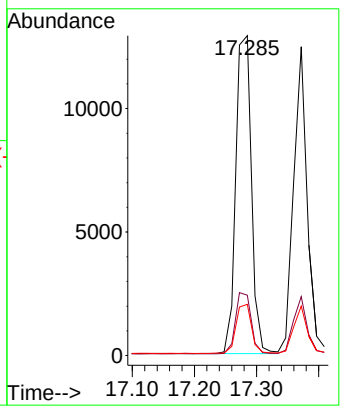


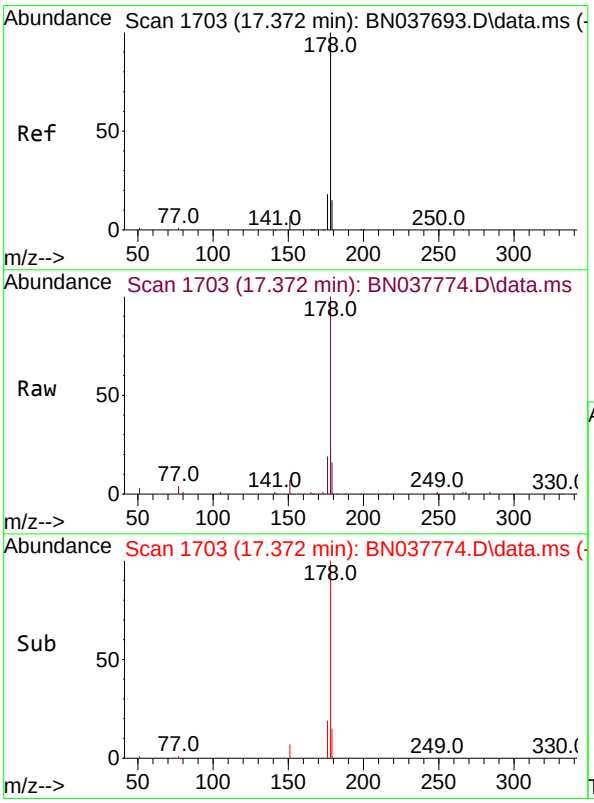

#25
Phenanthrene
Concen: 0.395 ng
RT: 17.285 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN037774.D
Acq: 18 Sep 2025 13:16

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4EC

Tgt Ion:178 Resp: 22453

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 178 | 100 | | |
| 176 | 19.1 | 15.3 | 22.9 |
| 179 | 15.4 | 12.2 | 18.2 |

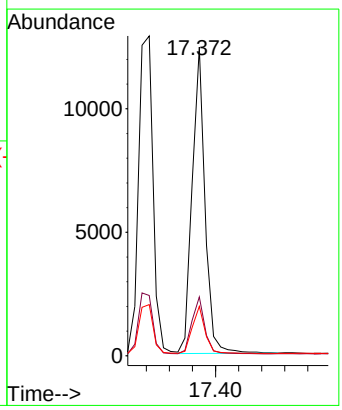


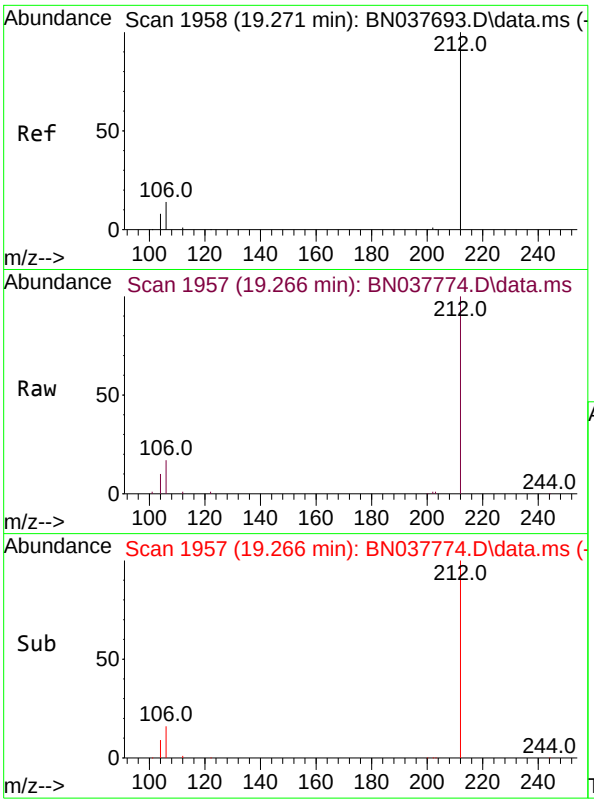




#26
Anthracene
Concen: 0.379 ng
RT: 17.372 min Scan# 1703
Delta R.T. -0.000 min
Lab File: BN037774.D
Acq: 18 Sep 2025 13:16

Tgt Ion:178 Resp: 19091

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 178 | 100 | | |
| 176 | 18.7 | 14.6 | 22.0 |
| 179 | 15.4 | 12.2 | 18.4 |



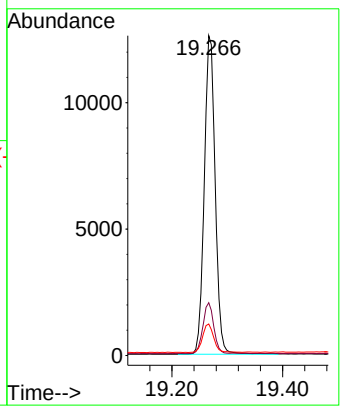


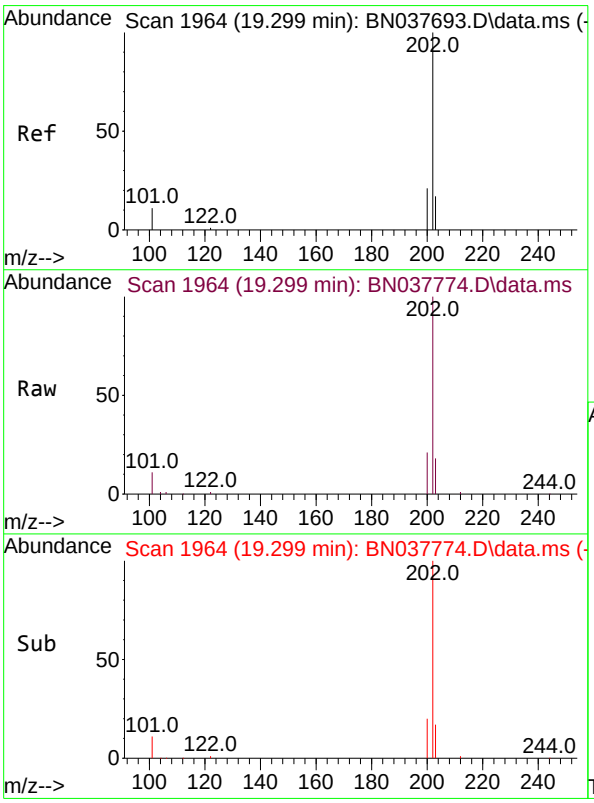

#27
Fluoranthene-d10
Concen: 0.378 ng
RT: 19.266 min Scan# 19
Delta R.T. -0.005 min
Lab File: BN037774.D
Acq: 18 Sep 2025 13:16

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4EC

Tgt Ion:212 Resp: 17138

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 212 | 100 | | |
| 106 | 15.7 | 12.2 | 18.2 |
| 104 | 9.2 | 6.9 | 10.3 |

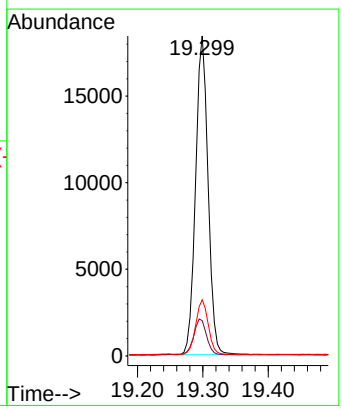


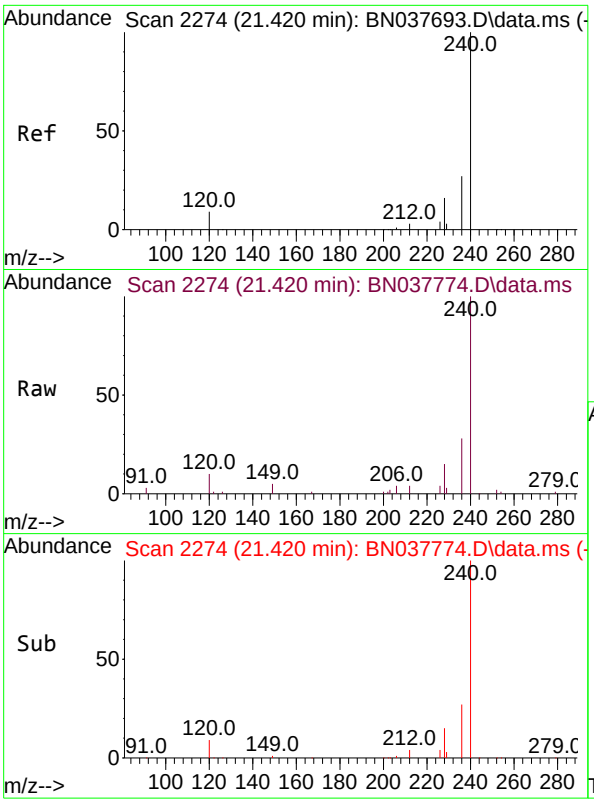




#28
Fluoranthene
Concen: 0.390 ng
RT: 19.299 min Scan# 1964
Delta R.T. -0.000 min
Lab File: BN037774.D
Acq: 18 Sep 2025 13:16

Tgt Ion:202 Resp: 24335

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 202 | 100 | | |
| 101 | 11.7 | 9.3 | 13.9 |
| 203 | 17.1 | 13.7 | 20.5 |



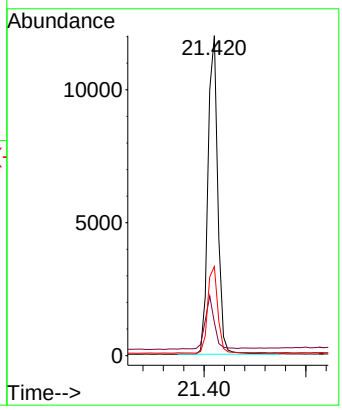


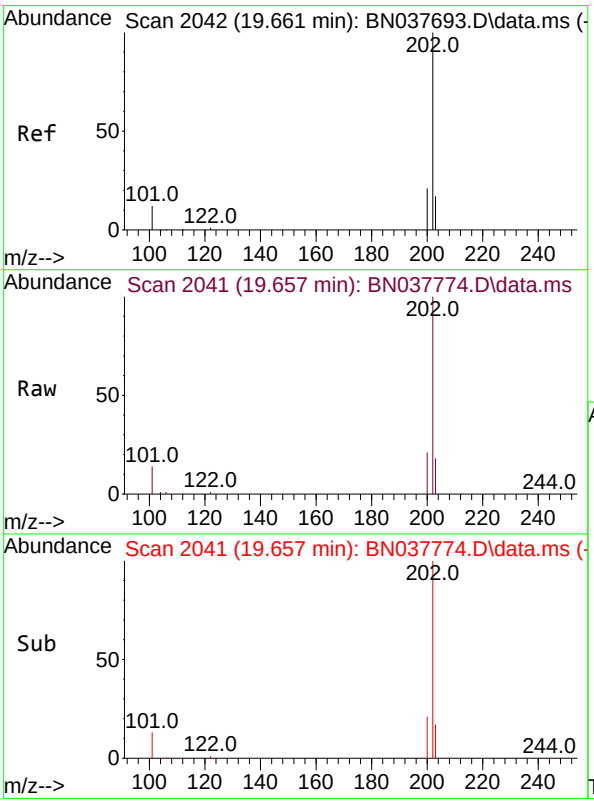

#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.420 min Scan# 2
Delta R.T. -0.000 min
Lab File: BN037774.D
Acq: 18 Sep 2025 13:16

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4EC

Tgt Ion:240 Resp: 16005

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 240 | 100 | | |
| 120 | 10.4 | 9.2 | 13.8 |
| 236 | 27.8 | 22.6 | 33.8 |

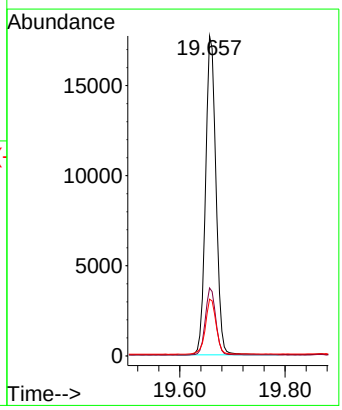


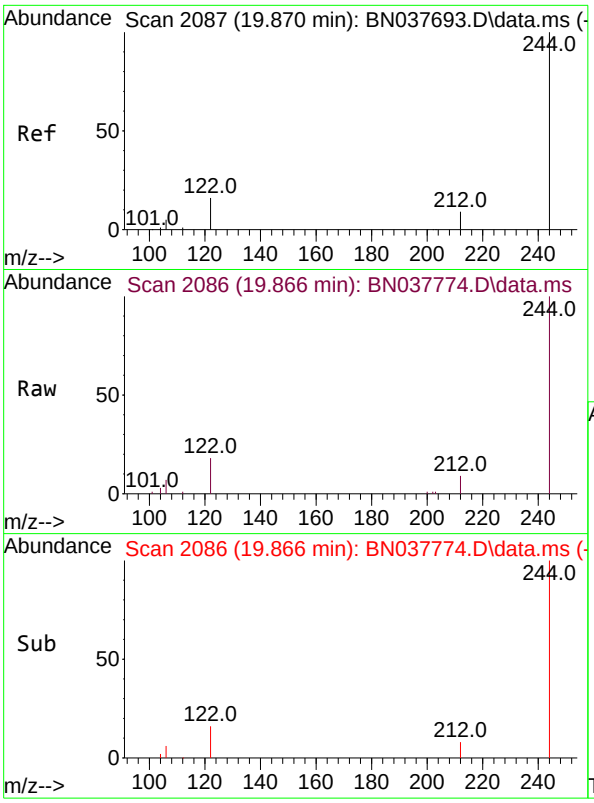




#30
Pyrene
Concen: 0.387 ng
RT: 19.657 min Scan# 2041
Delta R.T. -0.005 min
Lab File: BN037774.D
Acq: 18 Sep 2025 13:16

Tgt Ion:202 Resp: 24230

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 202 | 100 | | |
| 200 | 21.0 | 16.8 | 25.2 |
| 203 | 17.7 | 14.3 | 21.5 |



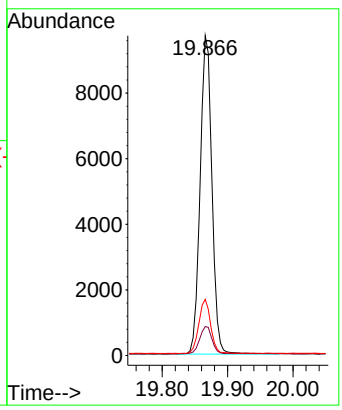


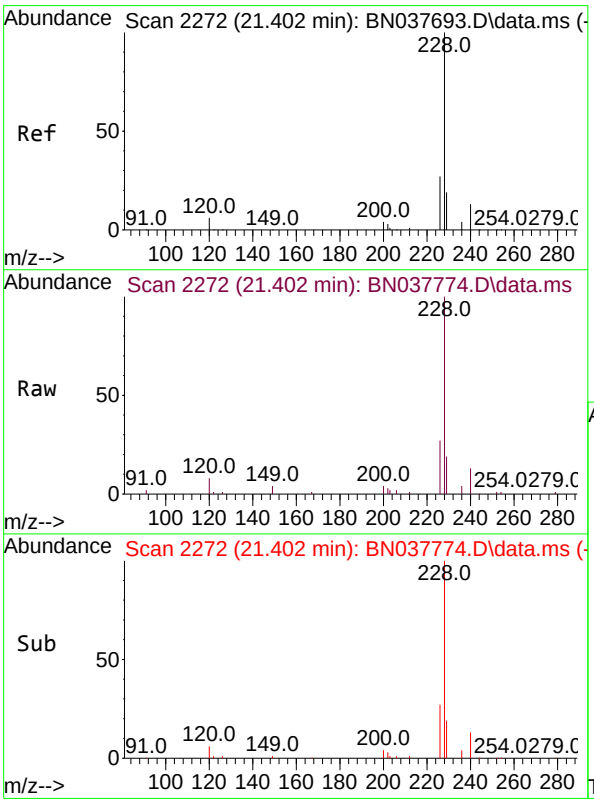

#31
Terphenyl-d14
Concen: 0.373 ng
RT: 19.866 min Scan# 20
Delta R.T. -0.005 min
Lab File: BN037774.D
Acq: 18 Sep 2025 13:16

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4EC

Tgt Ion:244 Resp: 12130

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 244 | 100 | | |
| 212 | 9.1 | 7.5 | 11.3 |
| 122 | 17.6 | 13.2 | 19.8 |

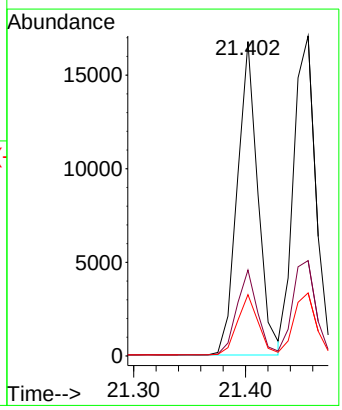


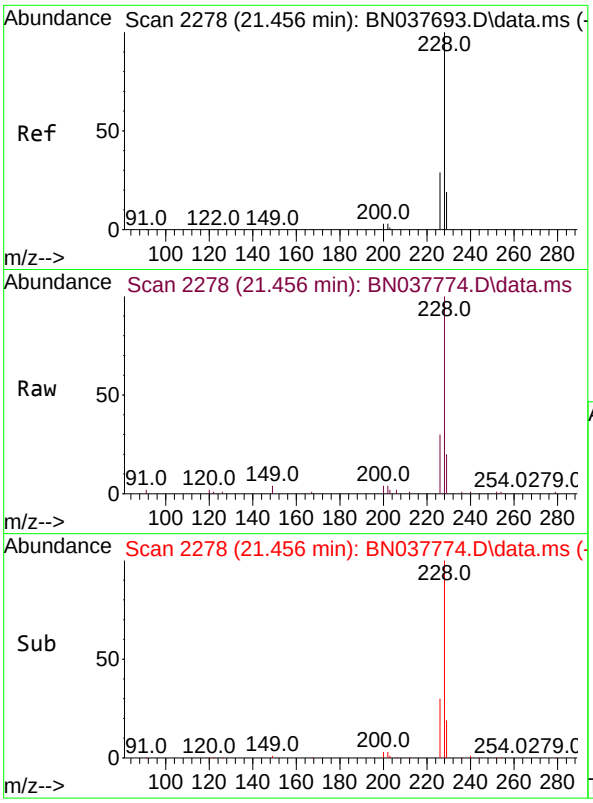




#32
Benzo(a)anthracene
Concen: 0.382 ng
RT: 21.402 min Scan# 2272
Delta R.T. -0.000 min
Lab File: BN037774.D
Acq: 18 Sep 2025 13:16

Tgt Ion:228 Resp: 21339

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 228 | 100 | | |
| 226 | 27.3 | 22.2 | 33.2 |
| 229 | 19.5 | 15.8 | 23.6 |



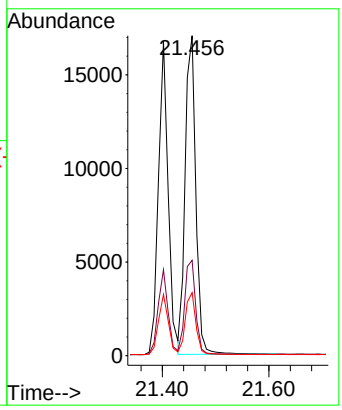


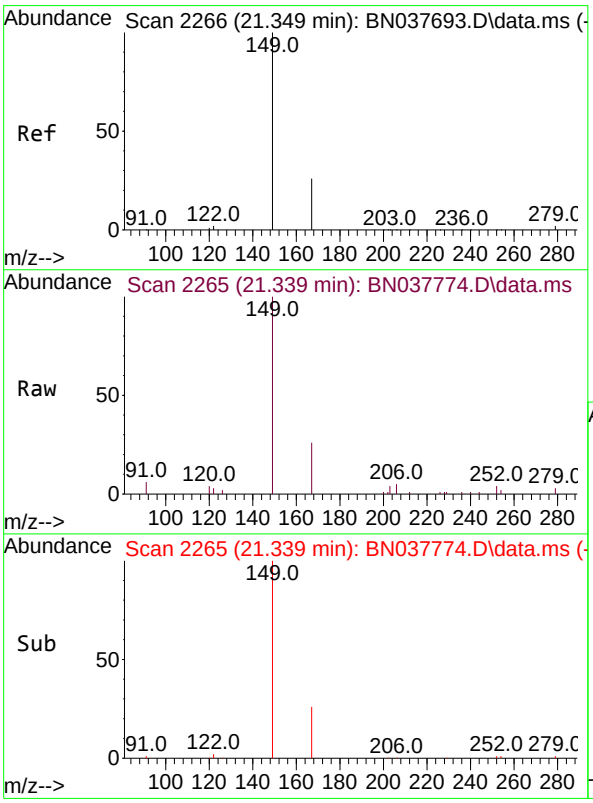

#33
Chrysene
Concen: 0.397 ng
RT: 21.456 min Scan# 2
Delta R.T. -0.000 min
Lab File: BN037774.D
Acq: 18 Sep 2025 13:16

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4EC

Tgt Ion:228 Resp: 23785

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 228 | 100 | | |
| 226 | 29.8 | 23.5 | 35.3 |
| 229 | 19.7 | 15.9 | 23.9 |

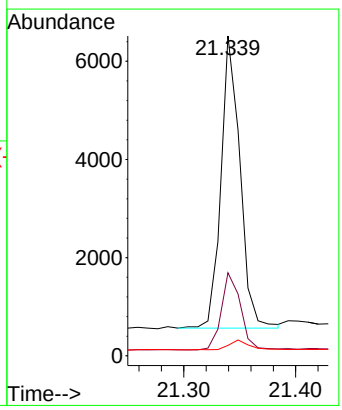


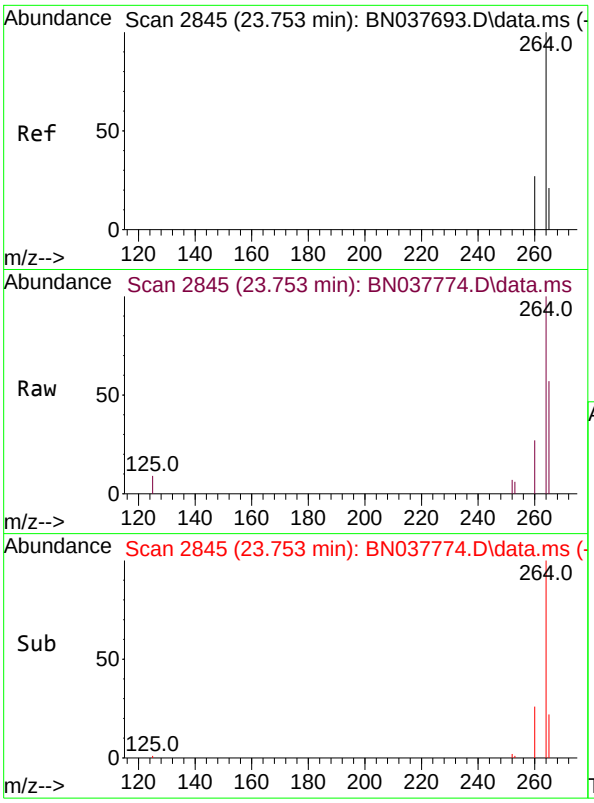




#34
Bis(2-ethylhexyl)phthalate
Concen: 0.424 ng
RT: 21.339 min Scan# 2265
Delta R.T. -0.009 min
Lab File: BN037774.D
Acq: 18 Sep 2025 13:16

Tgt Ion:149 Resp: 7017

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 149 | 100 | | |
| 167 | 27.1 | 20.8 | 31.2 |
| 279 | 3.7 | 3.3 | 4.9 |



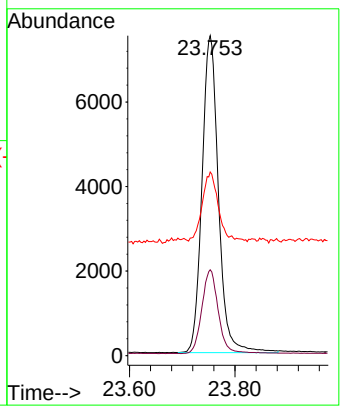


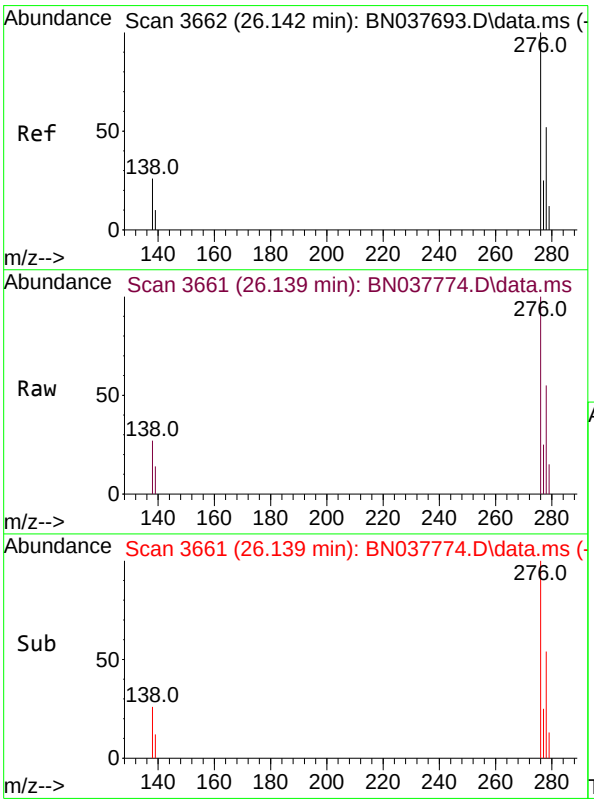

#35
Perylene-d12
Concen: 0.400 ng
RT: 23.753 min Scan# 28
Delta R.T. -0.000 min
Lab File: BN037774.D
Acq: 18 Sep 2025 13:16

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4EC

Tgt Ion:264 Resp: 16216

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 264 | 100 | | |
| 260 | 26.8 | 21.8 | 32.8 |
| 265 | 57.4 | 39.4 | 59.2 |

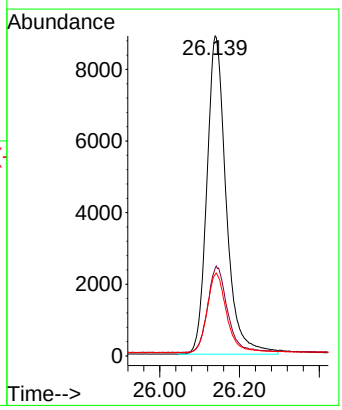


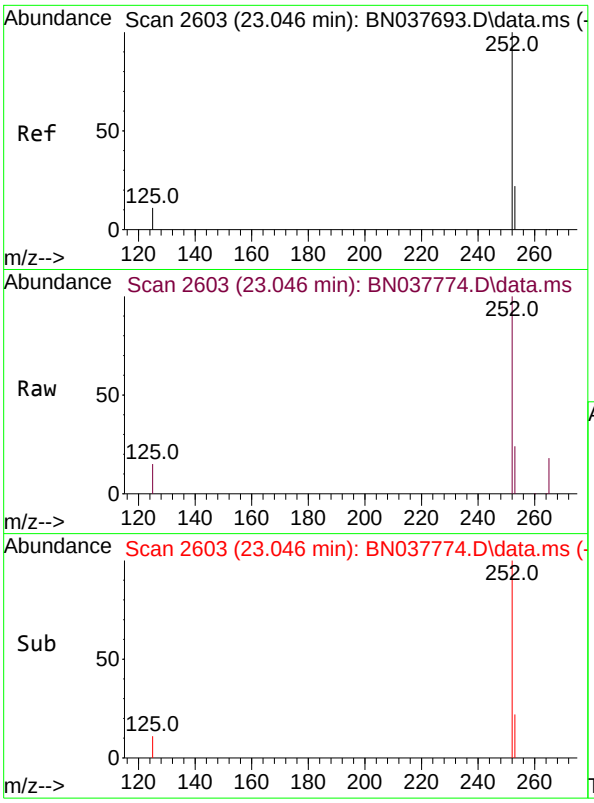




#36
Indeno(1,2,3-cd)pyrene
Concen: 0.438 ng
RT: 26.139 min Scan# 3661
Delta R.T. -0.003 min
Lab File: BN037774.D
Acq: 18 Sep 2025 13:16

Tgt Ion:276 Resp: 29869

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 276 | 100 | | |
| 138 | 27.3 | 21.9 | 32.9 |
| 277 | 25.0 | 20.1 | 30.1 |



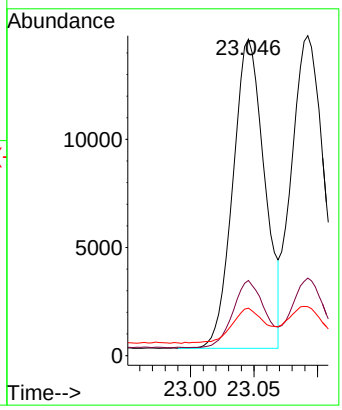


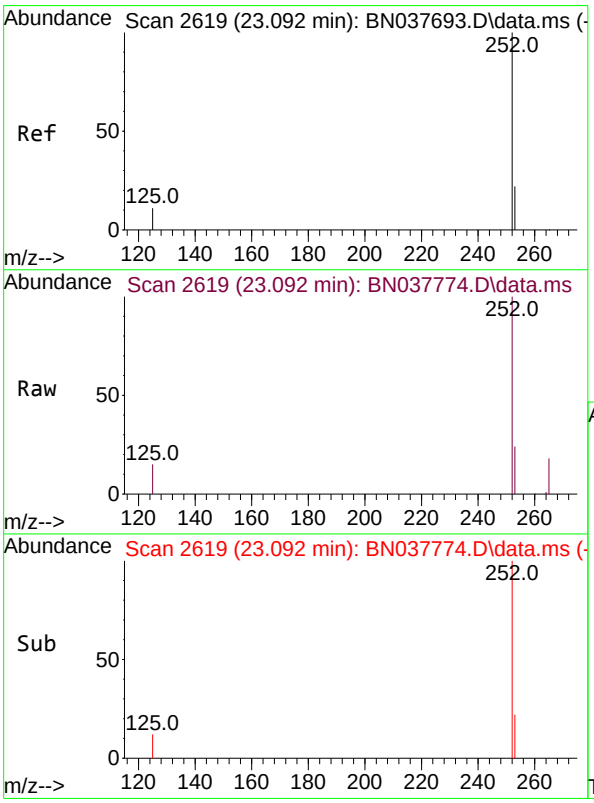

#37
Benzo(b)fluoranthene
Concen: 0.388 ng
RT: 23.046 min Scan# 2
Delta R.T. -0.000 min
Lab File: BN037774.D
Acq: 18 Sep 2025 13:16

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4EC

Tgt Ion:252 Resp: 24782

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 23.7 | 19.4 | 29.2 |
| 125 | 15.0 | 11.2 | 16.8 |

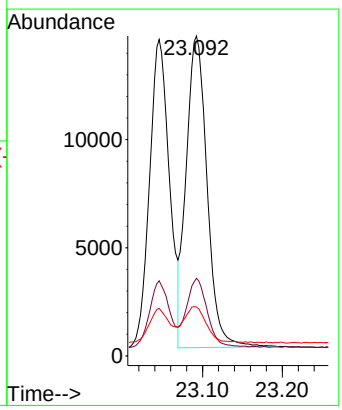


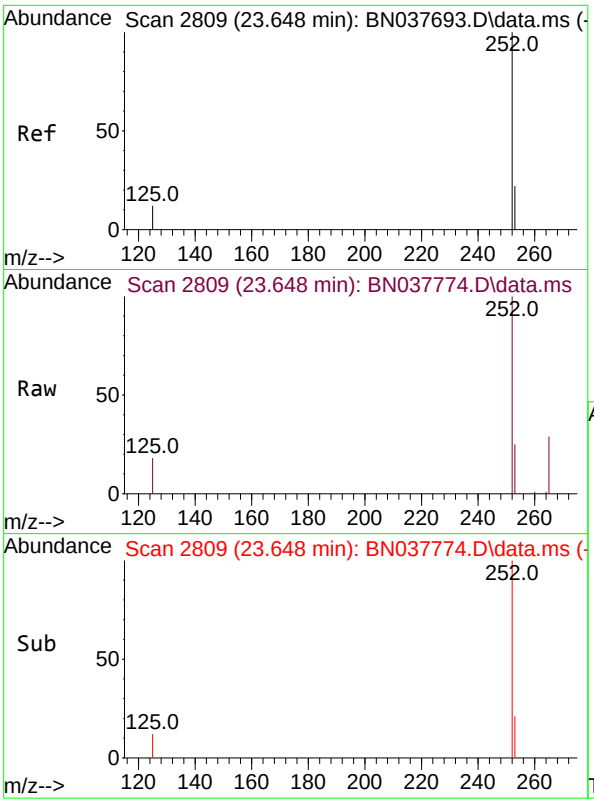




#38
Benzo(k)fluoranthene
Concen: 0.404 ng
RT: 23.092 min Scan# 2619
Delta R.T. -0.000 min
Lab File: BN037774.D
Acq: 18 Sep 2025 13:16

Tgt Ion:252 Resp: 26275

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 24.2 | 19.4 | 29.0 |
| 125 | 15.3 | 11.6 | 17.4 |



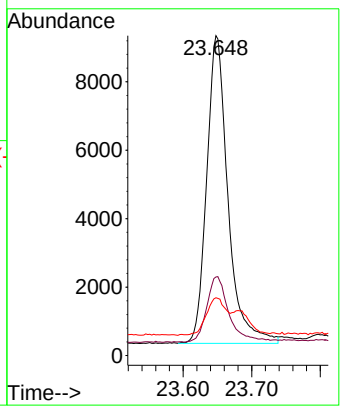


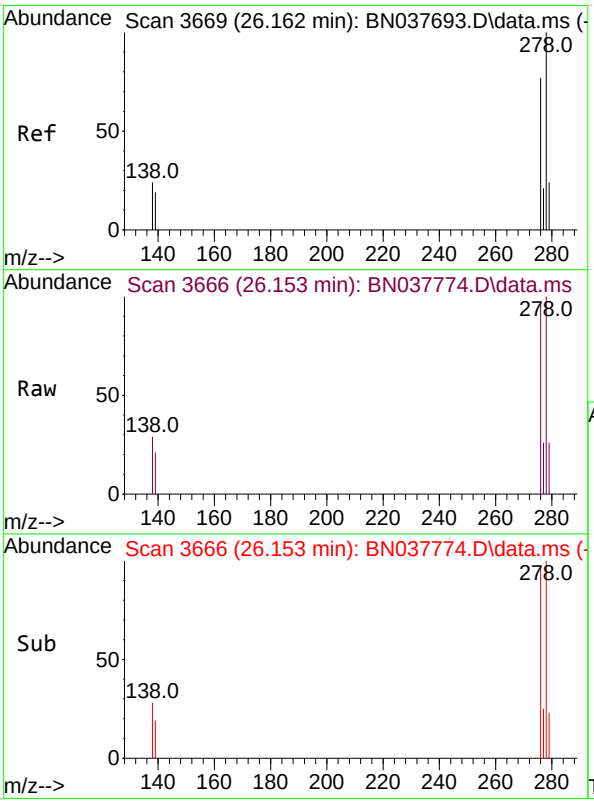

#39
Benzo(a)pyrene
Concen: 0.380 ng
RT: 23.648 min Scan# 28
Delta R.T. -0.000 min
Lab File: BN037774.D
Acq: 18 Sep 2025 13:16

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4EC

Tgt Ion:252 Resp: 19411

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 24.6 | 20.8 | 31.2 |
| 125 | 18.1 | 13.9 | 20.9 |

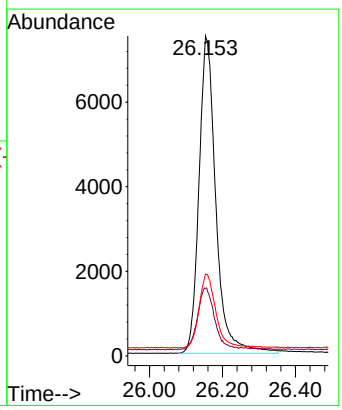


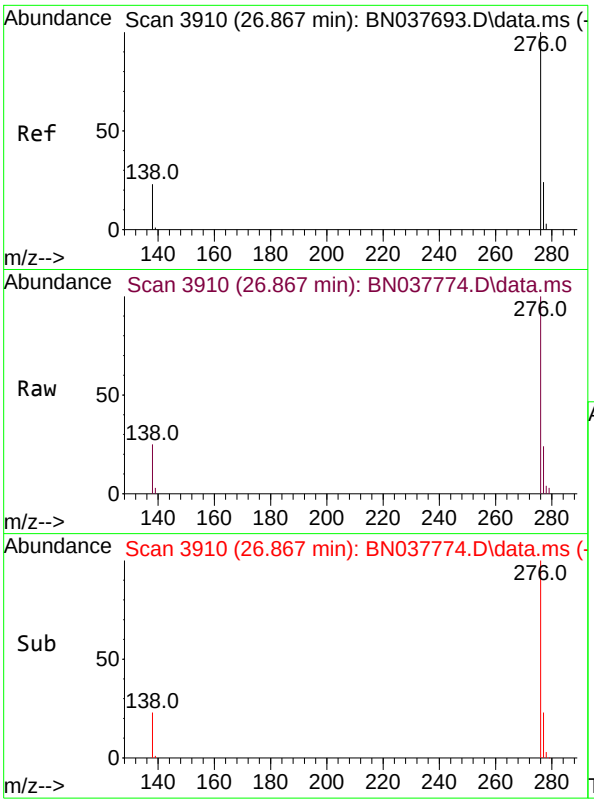




#40
Dibenzo(a,h)anthracene
Concen: 0.442 ng
RT: 26.153 min Scan# 3666
Delta R.T. -0.009 min
Lab File: BN037774.D
Acq: 18 Sep 2025 13:16

Tgt Ion:278 Resp: 24050

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 278 | 100 | | |
| 139 | 21.1 | 17.8 | 26.6 |
| 279 | 25.6 | 22.0 | 33.0 |



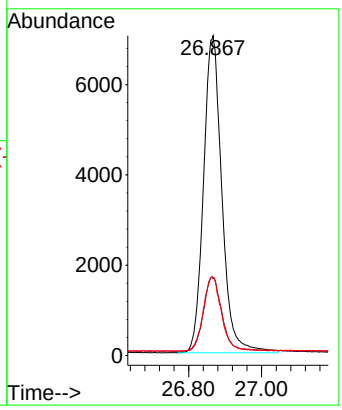



#41
Benzo(g,h,i)perylene
Concen: 0.402 ng
RT: 26.867 min Scan# 3
Delta R.T. -0.000 min
Lab File: BN037774.D
Acq: 18 Sep 2025 13:16

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4EC

Tgt Ion:276 Resp: 24546

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 276 | 100 | | |
| 277 | 24.0 | 20.6 | 31.0 |
| 138 | 24.5 | 20.2 | 30.2 |



Sample Results: **BN037774.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN091725\
Data File : BN037774.D
Acq On : 18 Sep 2025 13:16
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 35 Sample Multiplier: 1

**Instrument :**
BNA_N
**LabSampleId :**
SSTDCCC0.4

Quant Time: Sep 18 13:43:05 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN091125.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Sep 11 14:20:01 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 | 158# | 0.00 |
| 2 | | 1,4-Dioxane | 0.417 | 0.425 | -1.9 | 159# | 0.00 |
| 3 | | n-Nitrosodimethylamine | 0.544 | 0.518 | 4.8 | 145 | 0.00 |
| 4 | S | 2-Fluorophenol | 0.918 | 0.915 | 0.3 | 162# | 0.00 |
| 5 | S | Phenol-d6 | 1.191 | 1.160 | 2.6 | 159# | 0.00 |
| 6 | | bis(2-Chloroethyl)ether | 1.064 | 1.058 | 0.6 | 156# | 0.00 |
| 7 | I | Naphthalene-d8 | 1.000 | 1.000 | 0.0 | 158# | 0.00 |
| 8 | S | Nitrobenzene-d5 | 0.293 | 0.296 | -1.0 | 164# | 0.00 |
| 9 | | Naphthalene | 1.093 | 1.079 | 1.3 | 158# | 0.01 |
| 10 | | Hexachlorobutadiene | 0.198 | 0.192 | 3.0 | 153# | 0.00 |
| 11 | SURR | 2-Methylnaphthalene-d10 | 0.530 | 0.506 | 4.5 | 160# | 0.00 |
| 12 | | 2-Methylnaphthalene | 0.676 | 0.656 | 3.0 | 157# | 0.00 |
| 13 | I | Acenaphthene-d10 | 1.000 | 1.000 | 0.0 | 157# | 0.00 |
| 14 | S | 2,4,6-Tribromophenol | 0.104 | 0.126 | -21.2 | 197# | 0.00 |
| 15 | S | 2-Fluorobiphenyl | 1.673 | 1.646 | 1.6 | 157# | 0.00 |
| 16 | | Acenaphthylene | 1.834 | 1.745 | 4.9 | 154# | 0.00 |
| 17 | | Acenaphthene | 1.240 | 1.214 | 2.1 | 157# | 0.00 |
| 18 | | Fluorene | 1.502 | 1.459 | 2.9 | 159# | 0.00 |
| 19 | I | Phenanthrene-d10 | 1.000 | 1.000 | 0.0 | 160# | 0.00 |
| 20 | | 4,6-Dinitro-2-methylphenol | 0.037 | 0.037 | 0.0 | 180# | 0.00 |
| 21 | | 4-Bromophenyl-phenylether | 0.261 | 0.249 | 4.6 | 159# | -0.01 |
| 22 | | Hexachlorobenzene | 0.300 | 0.300 | 0.0 | 163# | 0.00 |
| 23 | | Atrazine | 0.166 | 0.161 | 3.0 | 171# | 0.00 |
| 24 | | Pentachlorophenol | 0.087 | 0.099 | -13.8 | 214# | 0.00 |
| 25 | | Phenanthrene | 1.259 | 1.243 | 1.3 | 163# | 0.00 |
| 26 | | Anthracene | 1.116 | 1.057 | 5.3 | 158# | 0.00 |
| 27 | SURR | Fluoranthene-d10 | 1.004 | 0.949 | 5.5 | 163# | 0.00 |
| 28 | | Fluoranthene | 1.381 | 1.347 | 2.5 | 165# | 0.00 |
| 29 | I | Chrysene-d12 | 1.000 | 1.000 | 0.0 | 171# | 0.00 |
| 30 | | Pyrene | 1.566 | 1.514 | 3.3 | 166# | 0.00 |
| 31 | S | Terphenyl-d14 | 0.812 | 0.758 | 6.7 | 162# | 0.00 |
| 32 | | Benzo(a)anthracene | 1.395 | 1.333 | 4.4 | 169# | 0.00 |
| 33 | | Chrysene | 1.496 | 1.486 | 0.7 | 170# | 0.00 |
| 34 | | Bis(2-ethylhexyl)phthalate | 0.414 | 0.438 | -5.8 | 199# | 0.00 |
| 35 | I | Perylene-d12 | 1.000 | 1.000 | 0.0 | 181# | 0.00 |
| 36 | | Indeno(1,2,3-cd)pyrene | 1.681 | 1.842 | -9.6 | 216# | 0.00 |
| 37 | | Benzo(b)fluoranthene | 1.575 | 1.528 | 3.0 | 178# | 0.00 |
| 38 | | Benzo(k)fluoranthene | 1.606 | 1.620 | -0.9 | 192# | 0.00 |
| 39 | C | Benzo(a)pyrene | 1.261 | 1.197 | 5.1 | 180# | 0.00 |
| 40 | | Dibenzo(a,h)anthracene | 1.342 | 1.483 | -10.5 | 222# | 0.00 |
| 41 | | Benzo(g,h,i)perylene | 1.506 | 1.514 | -0.5 | 189# | 0.00 |

(#) = Out of Range SPCC's out = 0 CCC's out = 0

**Instrument :**
BNA_N
**LabSampleId :**
SSTDCCC0.4

Sample Results: **BN037774.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN091725\
Data File : BN037774.D
Acq On : 18 Sep 2025 13:16
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 35 Sample Multiplier: 1

**Instrument :**
BNA_N
**LabSampleId :**
SSTDCCC0.4

Quant Time: Sep 18 13:43:05 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN091125.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Sep 11 14:20:01 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 | 158 | 0.00 |
| 2 | | 1,4-Dioxane | 0.400 | 0.408 | -2.0 | 159 | 0.00 |
| 3 | | n-Nitrosodimethylamine | 0.400 | 0.381 | 4.8 | 145 | 0.00 |
| 4 | S | 2-Fluorophenol | 0.400 | 0.399 | 0.3 | 162 | 0.00 |
| 5 | S | Phenol-d6 | 0.400 | 0.390 | 2.5 | 159 | 0.00 |
| 6 | | bis(2-Chloroethyl)ether | 0.400 | 0.398 | 0.5 | 156 | 0.00 |
| 7 | I | Naphthalene-d8 | 0.400 | 0.400 | 0.0 | 158 | 0.00 |
| 8 | S | Nitrobenzene-d5 | 0.400 | 0.405 | -1.3 | 164 | 0.00 |
| 9 | | Naphthalene | 0.400 | 0.395 | 1.3 | 158 | 0.01 |
| 10 | | Hexachlorobutadiene | 0.400 | 0.388 | 3.0 | 153 | 0.00 |
| 11 | SURR | 2-Methylnaphthalene-d10 | 0.400 | 0.382 | 4.5 | 160 | 0.00 |
| 12 | | 2-Methylnaphthalene | 0.400 | 0.388 | 3.0 | 157 | 0.00 |
| 13 | I | Acenaphthene-d10 | 0.400 | 0.400 | 0.0 | 157 | 0.00 |
| 14 | S | 2,4,6-Tribromophenol | 0.400 | 0.485 | -21.2 | 197 | 0.00 |
| 15 | S | 2-Fluorobiphenyl | 0.400 | 0.394 | 1.5 | 157 | 0.00 |
| 16 | | Acenaphthylene | 0.400 | 0.380 | 5.0 | 154 | 0.00 |
| 17 | | Acenaphthene | 0.400 | 0.391 | 2.3 | 157 | 0.00 |
| 18 | | Fluorene | 0.400 | 0.388 | 3.0 | 159 | 0.00 |
| 19 | I | Phenanthrene-d10 | 0.400 | 0.400 | 0.0 | 160 | 0.00 |
| 20 | | 4,6-Dinitro-2-methylphenol | 0.400 | 0.399 | 0.3 | 180 | 0.00 |
| 21 | | 4-Bromophenyl-phenylether | 0.400 | 0.383 | 4.3 | 159 | -0.01 |
| 22 | | Hexachlorobenzene | 0.400 | 0.400 | 0.0 | 163 | 0.00 |
| 23 | | Atrazine | 0.400 | 0.389 | 2.8 | 171 | 0.00 |
| 24 | | Pentachlorophenol | 0.400 | 0.457 | -14.2 | 214 | 0.00 |
| 25 | | Phenanthrene | 0.400 | 0.395 | 1.3 | 163 | 0.00 |
| 26 | | Anthracene | 0.400 | 0.379 | 5.3 | 158 | 0.00 |
| 27 | SURR | Fluoranthene-d10 | 0.400 | 0.378 | 5.5 | 163 | 0.00 |
| 28 | | Fluoranthene | 0.400 | 0.390 | 2.5 | 165 | 0.00 |
| 29 | I | Chrysene-d12 | 0.400 | 0.400 | 0.0 | 171 | 0.00 |
| 30 | | Pyrene | 0.400 | 0.387 | 3.3 | 166 | 0.00 |
| 31 | S | Terphenyl-d14 | 0.400 | 0.373 | 6.8 | 162 | 0.00 |
| 32 | | Benzo(a)anthracene | 0.400 | 0.382 | 4.5 | 169 | 0.00 |
| 33 | | Chrysene | 0.400 | 0.397 | 0.8 | 170 | 0.00 |
| 34 | | Bis(2-ethylhexyl)phthalate | 0.400 | 0.424 | -6.0 | 199 | 0.00 |
| 35 | I | Perylene-d12 | 0.400 | 0.400 | 0.0 | 181 | 0.00 |
| 36 | | Indeno(1,2,3-cd)pyrene | 0.400 | 0.438 | -9.5 | 216 | 0.00 |
| 37 | | Benzo(b)fluoranthene | 0.400 | 0.388 | 3.0 | 178 | 0.00 |
| 38 | | Benzo(k)fluoranthene | 0.400 | 0.404 | -1.0 | 192 | 0.00 |
| 39 | C | Benzo(a)pyrene | 0.400 | 0.380 | 5.0 | 180 | 0.00 |
| 40 | | Dibenzo(a,h)anthracene | 0.400 | 0.442 | -10.5 | 222 | 0.00 |
| 41 | | Benzo(g,h,i)perylene | 0.400 | 0.402 | -0.5 | 189 | 0.00 |

(#) = Out of Range SPCC's out = 0 CCC's out = 0

**Instrument :**
BNA_N
**LabSampleId :**
SSTDCCC0.4

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

7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

| | | | |
|---|---|---|---|
| Lab Name: | Alliance | Contract: | AECO15 |
| Lab Code: | ACE | SDG No.: | Q3095 |
| Instrument ID: | BNA_N | Calibration Date/Time: | 09/18/2025 14:32 |
| Lab File ID: | BN037776.D | Init. Calib. Date(s): | 09/11/2025 09/11/2025 |
| EPA Sample No.: | SSTDCCC0.4 | Init. Calib. Time(s): | 09:56 13:33 |

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

| COMPOUND | RRF | RRF0.4 | MIN RRF | %D | MAX%D |
|---|---|---|---|---|---|
| 2-Methylnaphthalene-d10 | 0.530 | 0.497 | | -6.2 | 20.0 |
| Fluoranthene-d10 | 1.004 | 0.839 | | -16.4 | 20.0 |
| 2-Fluorophenol | 0.918 | 0.890 | | -3.0 | 20.0 |
| Phenol-d6 | 1.191 | 1.130 | | -5.1 | 20.0 |
| Nitrobenzene-d5 | 0.293 | 0.298 | | 1.7 | 20.0 |
| 2-Fluorobiphenyl | 1.673 | 1.679 | | 0.4 | 20.0 |
| 2,4,6-Tribromophenol | 0.104 | 0.114 | | 9.6 | 20.0 |
| Terphenyl-d14 | 0.812 | 0.801 | | -1.4 | 20.0 |
| 1,4-Dioxane | 0.417 | 0.428 | | 2.6 | 20.0 |

All other compounds must meet a minimum RRF of 0.010.

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN091825\
Data File : BN037776.D
Acq On : 18 Sep 2025 14:32
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 2 Sample Multiplier: 1

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4

Quant Time: Sep 18 15:01:11 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN091125.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Sep 11 14:20:01 2025
Response via : Initial Calibration

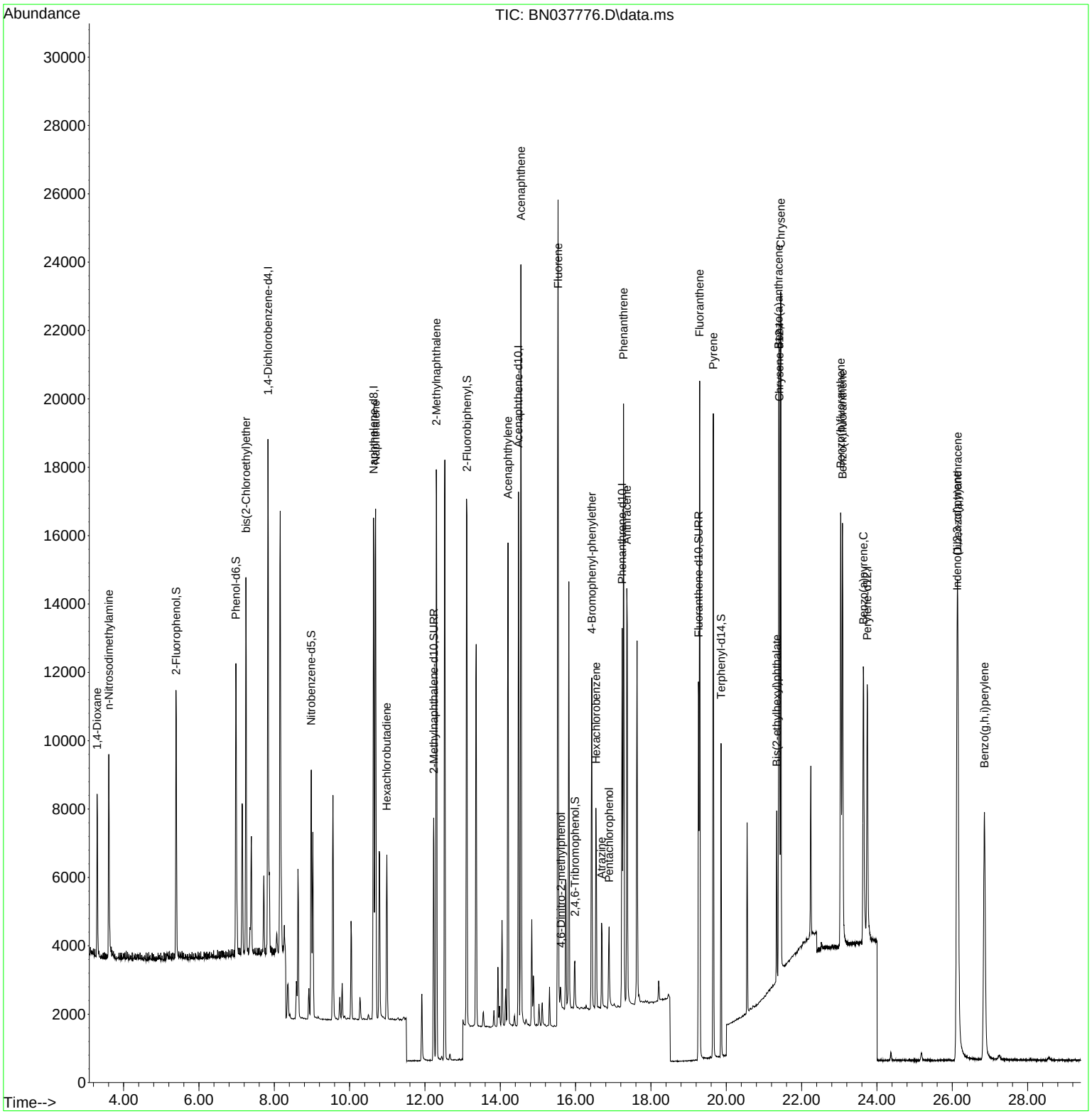
| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| Internal Standards | | | | | | | |
| 1) 1,4-Dichlorobenzene-d4 | 7.833 | 152 | 7127 | 0.400 | ng | | 0.00 |
| 7) Naphthalene-d8 | 10.637 | 136 | 18984 | 0.400 | ng | | -0.01 |
| 13) Acenaphthene-d10 | 14.484 | 164 | 8698 | 0.400 | ng | | -0.01 |
| 19) Phenanthrene-d10 | 17.235 | 188 | 14526 | 0.400 | ng | # | 0.00 |
| 29) Chrysene-d12 | 21.411 | 240 | 10438 | 0.400 | ng | # | 0.00 |
| 35) Perylene-d12 | 23.744 | 264 | 10600 | 0.400 | ng | # | 0.00 |
| System Monitoring Compounds | | | | | | | |
| 4) 2-Fluorophenol | 5.399 | 112 | 6346 | 0.388 | ng | | 0.00 |
| 5) Phenol-d6 | 6.980 | 99 | 8055 | 0.380 | ng | | 0.00 |
| 8) Nitrobenzene-d5 | 8.982 | 82 | 5651 | 0.407 | ng | | -0.01 |
| 11) 2-Methylnaphthalene-d10 | 12.232 | 152 | 9430 | 0.375 | ng | | -0.01 |
| 14) 2,4,6-Tribromophenol | 15.982 | 330 | 988 | 0.436 | ng | | 0.00 |
| 15) 2-Fluorobiphenyl | 13.115 | 172 | 14602 | 0.401 | ng | | 0.00 |
| 27) Fluoranthene-d10 | 19.262 | 212 | 12188 | 0.334 | ng | | 0.00 |
| 31) Terphenyl-d14 | 19.861 | 244 | 8356 | 0.394 | ng | | 0.00 |
| Target Compounds | | | | | | | Qvalue |
| 2) 1,4-Dioxane | 3.297 | 88 | 3048 | 0.411 | ng | | 94 |
| 3) n-Nitrosodimethylamine | 3.608 | 42 | 3658 | 0.377 | ng | # | 90 |
| 6) bis(2-Chloroethyl)ether | 7.248 | 93 | 7546 | 0.398 | ng | | 100 |
| 9) Naphthalene | 10.690 | 128 | 20305 | 0.391 | ng | | 99 |
| 10) Hexachlorobutadiene | 10.989 | 225 | 3759 | 0.400 | ng | # | 100 |
| 12) 2-Methylnaphthalene | 12.303 | 142 | 12427 | 0.387 | ng | | 99 |
| 16) Acenaphthylene | 14.206 | 152 | 15171 | 0.380 | ng | | 100 |
| 17) Acenaphthene | 14.548 | 154 | 10490 | 0.389 | ng | | 97 |
| 18) Fluorene | 15.535 | 166 | 12152 | 0.372 | ng | | 100 |
| 20) 4,6-Dinitro-2-methylph... | 15.609 | 198 | 454 | 0.337 | ng | | 96 |
| 21) 4-Bromophenyl-phenylether | 16.429 | 248 | 3832 | 0.405 | ng | # | 86 |
| 22) Hexachlorobenzene | 16.540 | 284 | 4737 | 0.435 | ng | | 99 |
| 23) Atrazine | 16.689 | 200 | 2300 | 0.382 | ng | # | 90 |
| 24) Pentachlorophenol | 16.888 | 266 | 1384 | 0.438 | ng | | 95 |
| 25) Phenanthrene | 17.273 | 178 | 17751 | 0.388 | ng | | 99 |
| 26) Anthracene | 17.359 | 178 | 15208 | 0.375 | ng | | 99 |
| 28) Fluoranthene | 19.294 | 202 | 17450 | 0.348 | ng | | 100 |
| 30) Pyrene | 19.657 | 202 | 17087 | 0.418 | ng | | 100 |
| 32) Benzo(a)anthracene | 21.393 | 228 | 13864 | 0.381 | ng | | 99 |
| 33) Chrysene | 21.447 | 228 | 15945 | 0.408 | ng | | 99 |
| 34) Bis(2-ethylhexyl)phtha... | 21.339 | 149 | 4553 | 0.422 | ng | | 100 |
| 36) Indeno(1,2,3-cd)pyrene | 26.127 | 276 | 19472 | 0.437 | ng | | 100 |
| 37) Benzo(b)fluoranthene | 23.037 | 252 | 16161 | 0.387 | ng | # | 97 |
| 38) Benzo(k)fluoranthene | 23.086 | 252 | 17089 | 0.402 | ng | | 97 |
| 39) Benzo(a)pyrene | 23.642 | 252 | 13152 | 0.394 | ng | # | 95 |
| 40) Dibenzo(a,h)anthracene | 26.145 | 278 | 15512 | 0.436 | ng | | 99 |
| 41) Benzo(g,h,i)perylene | 26.855 | 276 | 16486 | 0.413 | ng | | 99 |

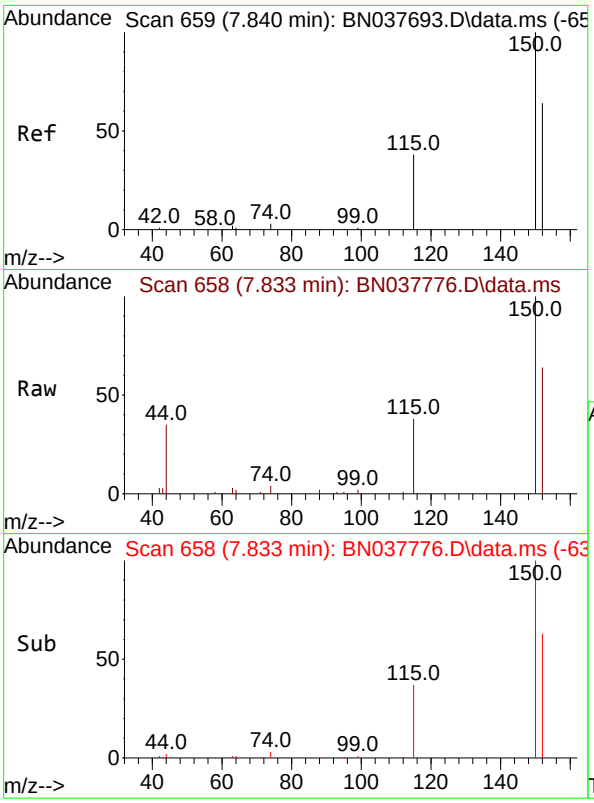
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN091825\
Data File : BN037776.D
Acq On : 18 Sep 2025 14:32
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 2 Sample Multiplier: 1

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4

Quant Time: Sep 18 15:01:11 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN091125.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Sep 11 14:20:01 2025
Response via : Initial Calibration



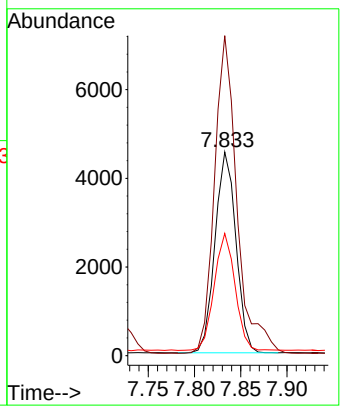


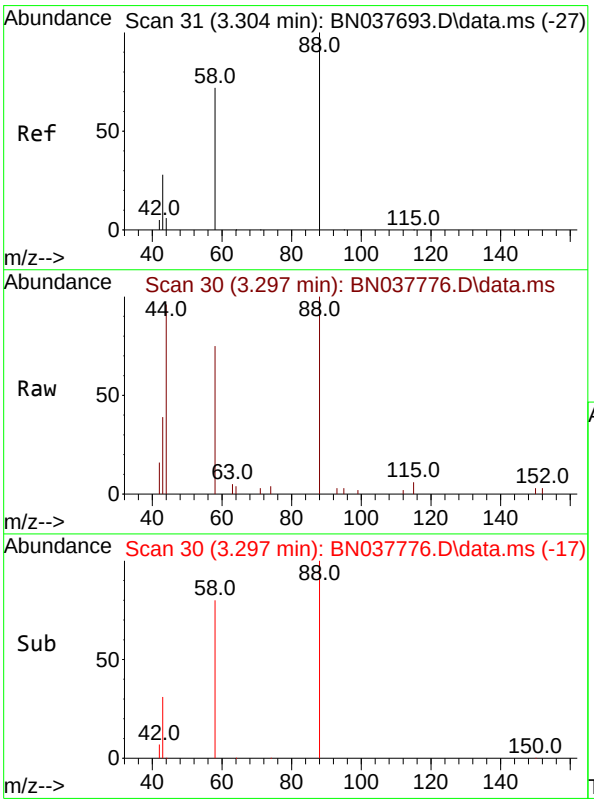

#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.833 min Scan# 6
Delta R.T. -0.007 min
Lab File: BN037776.D
Acq: 18 Sep 2025 14:32

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4

Tgt Ion:152 Resp: 7127

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 150 | 157.1 | 124.5 | 186.7 |
| 115 | 60.0 | 49.2 | 73.8 |

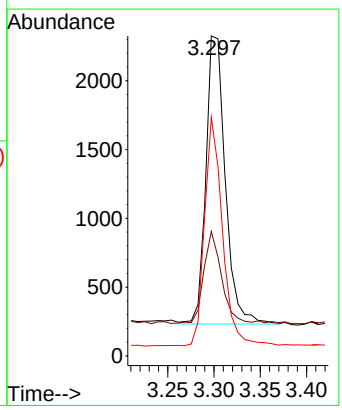


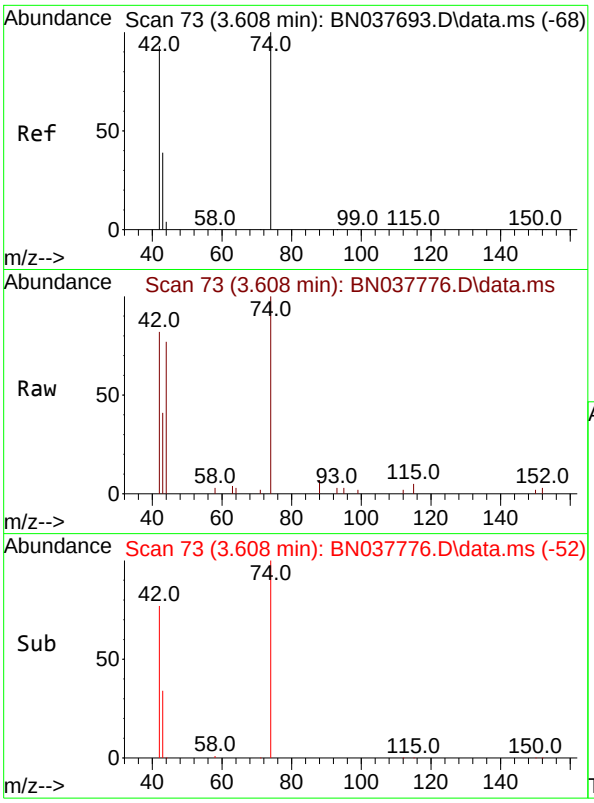




#2
1,4-Dioxane
Concen: 0.411 ng
RT: 3.297 min Scan# 30
Delta R.T. -0.007 min
Lab File: BN037776.D
Acq: 18 Sep 2025 14:32

Tgt Ion: 88 Resp: 3048

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 88 | 100 | | |
| 43 | 29.1 | 26.8 | 40.2 |
| 58 | 73.0 | 61.9 | 92.9 |



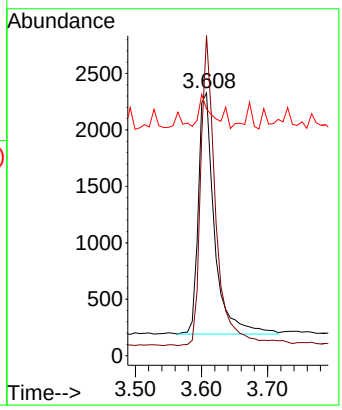


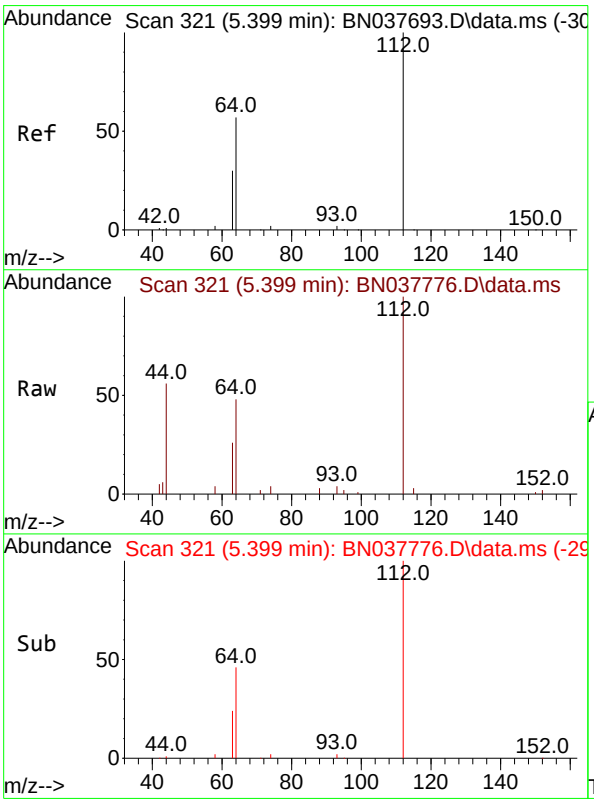

#3
n-Nitrosodimethylamine
Concen: 0.377 ng
RT: 3.608 min Scan# 7
Delta R.T. -0.000 min
Lab File: BN037776.D
Acq: 18 Sep 2025 14:32

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4

Tgt Ion: 42 Resp: 3658

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 42 | 100 | | |
| 74 | 118.6 | 86.0 | 129.0 |
| 44 | 8.4 | 8.4 | 12.6# |

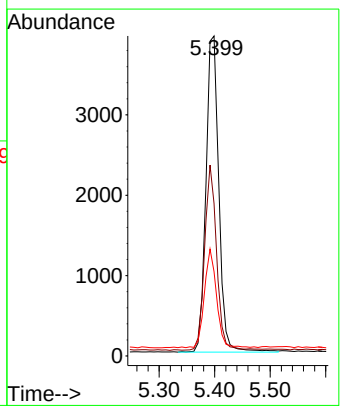


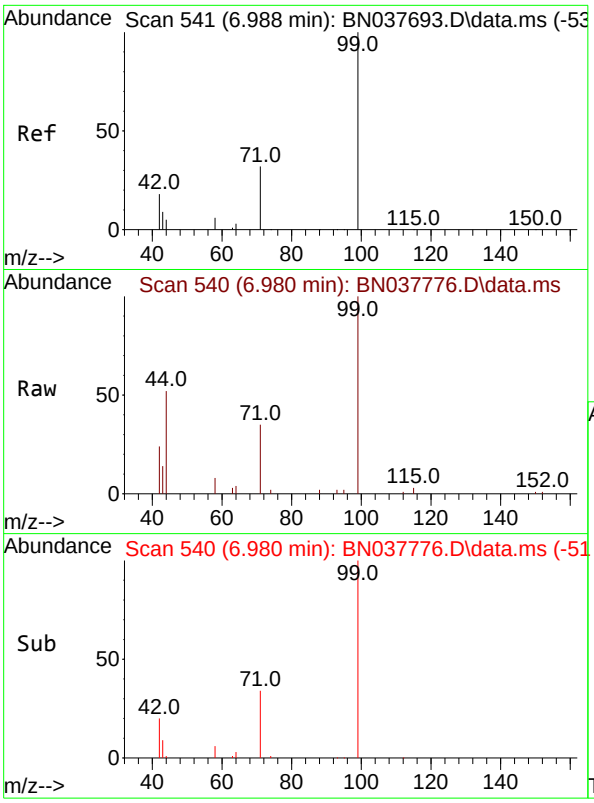




#4
2-Fluorophenol
Concen: 0.388 ng
RT: 5.399 min Scan# 321
Delta R.T. -0.000 min
Lab File: BN037776.D
Acq: 18 Sep 2025 14:32

Tgt Ion:112 Resp: 6346

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 112 | 100 | | |
| 64 | 54.2 | 44.9 | 67.3 |
| 63 | 29.2 | 24.7 | 37.1 |



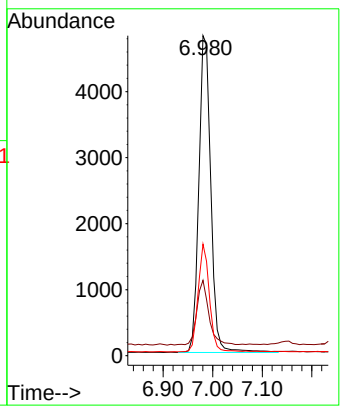


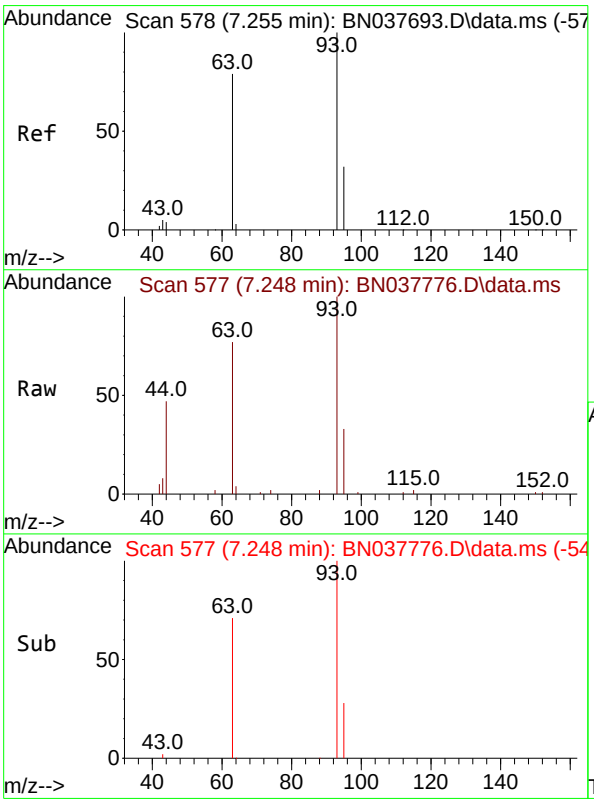

#5
Phenol-d6
Concen: 0.380 ng
RT: 6.980 min Scan# 54
Delta R.T. -0.007 min
Lab File: BN037776.D
Acq: 18 Sep 2025 14:32

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4

Tgt Ion: 99 Resp: 8055

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 99 | 100 | | |
| 42 | 20.9 | 16.6 | 24.8 |
| 71 | 32.2 | 26.7 | 40.1 |

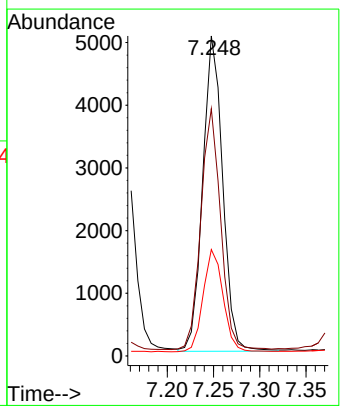


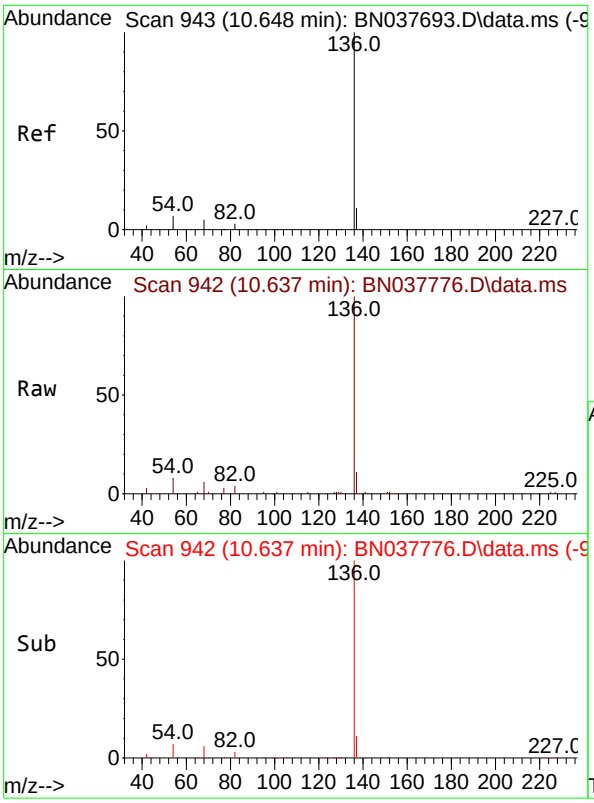




#6
bis(2-Chloroethyl)ether
Concen: 0.398 ng
RT: 7.248 min Scan# 577
Delta R.T. -0.007 min
Lab File: BN037776.D
Acq: 18 Sep 2025 14:32

Tgt Ion: 93 Resp: 7546

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 93 | 100 | | |
| 63 | 75.4 | 60.6 | 90.8 |
| 95 | 32.5 | 26.0 | 39.0 |



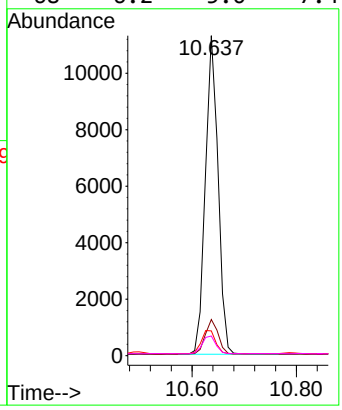


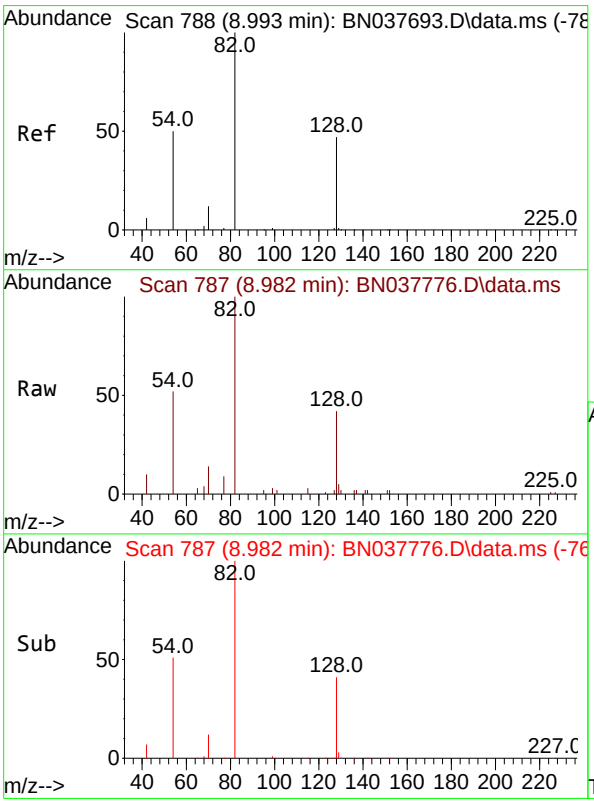

#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.637 min Scan# 94
Delta R.T. -0.011 min
Lab File: BN037776.D
Acq: 18 Sep 2025 14:32

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4

Tgt Ion:136 Resp: 18984

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 136 | 100 | | |
| 137 | 11.3 | 9.1 | 13.7 |
| 54 | 7.7 | 6.3 | 9.5 |
| 68 | 6.2 | 5.0 | 7.4 |

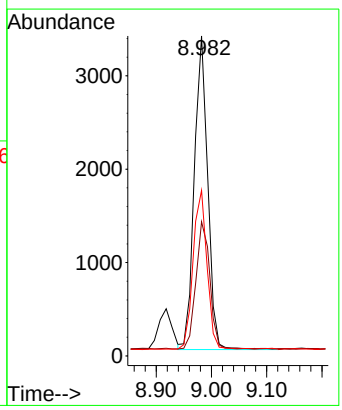


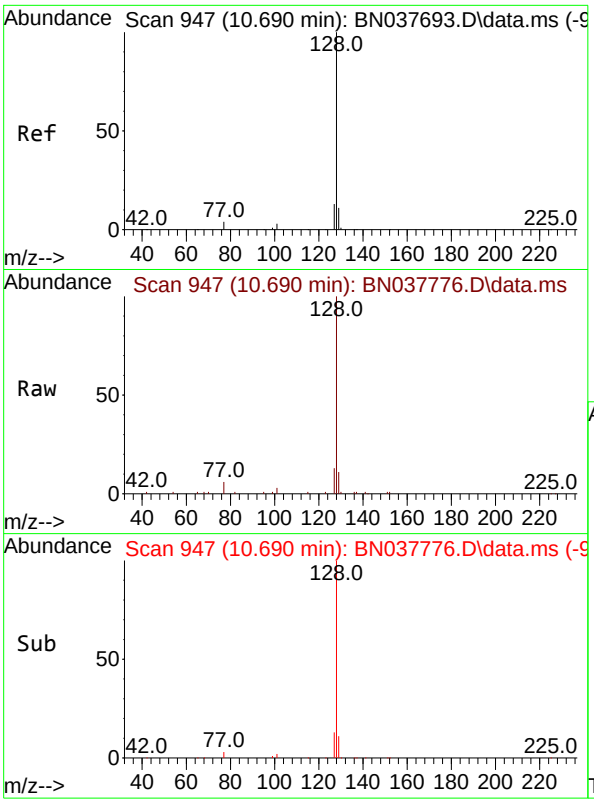




#8
Nitrobenzene-d5
Concen: 0.407 ng
RT: 8.982 min Scan# 787
Delta R.T. -0.011 min
Lab File: BN037776.D
Acq: 18 Sep 2025 14:32

Tgt Ion: 82 Resp: 5651

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 82 | 100 | | |
| 128 | 42.0 | 38.3 | 57.5 |
| 54 | 51.8 | 41.4 | 62.2 |



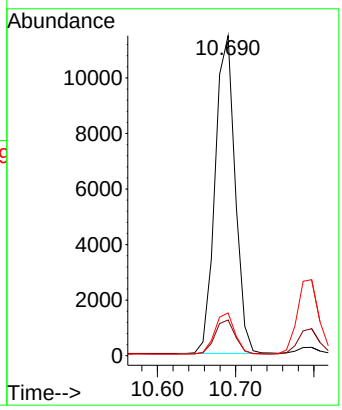


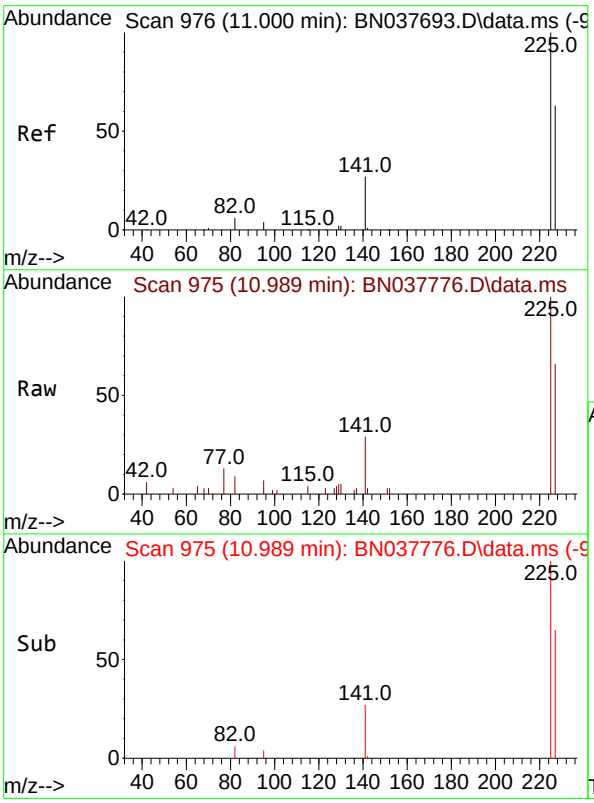

#9
Naphthalene
Concen: 0.391 ng
RT: 10.690 min Scan# 94
Delta R.T. -0.000 min
Lab File: BN037776.D
Acq: 18 Sep 2025 14:32

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4

Tgt Ion:128 Resp: 20305

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 128 | 100 | | |
| 129 | 11.1 | 9.1 | 13.7 |
| 127 | 13.3 | 10.9 | 16.3 |

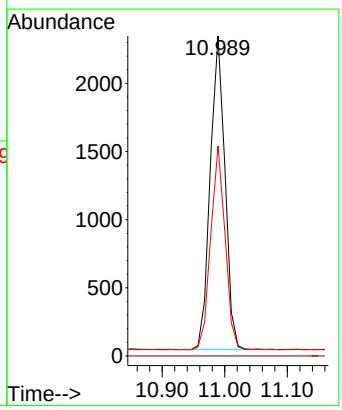


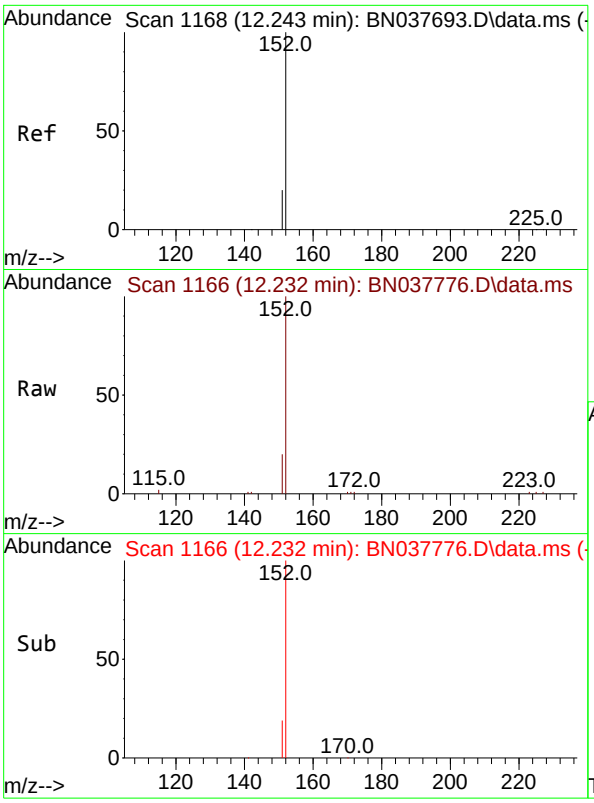




#10
Hexachlorobutadiene
Concen: 0.400 ng
RT: 10.989 min Scan# 975
Delta R.T. -0.011 min
Lab File: BN037776.D
Acq: 18 Sep 2025 14:32

Tgt Ion:225 Resp: 3759

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 225 | 100 | | |
| 223 | 0.0 | 0.0 | 0.0 |
| 227 | 63.4 | 50.9 | 76.3 |



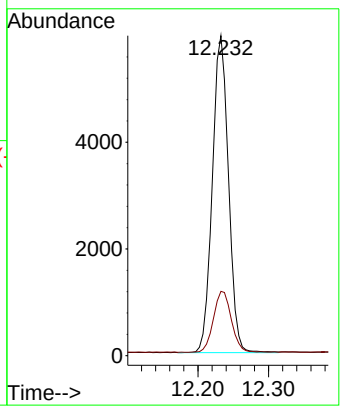


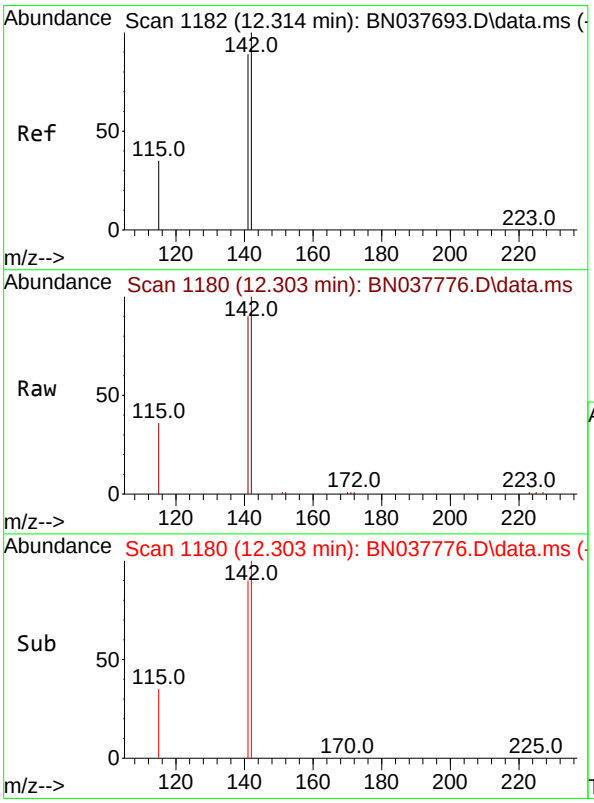

#11
2-Methylnaphthalene-d10
Concen: 0.375 ng
RT: 12.232 min Scan# 11
Delta R.T. -0.010 min
Lab File: BN037776.D
Acq: 18 Sep 2025 14:32

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4

Tgt Ion:152 Resp: 9430

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

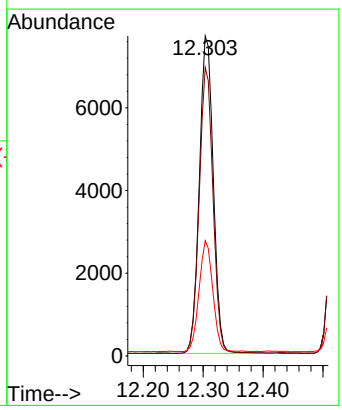


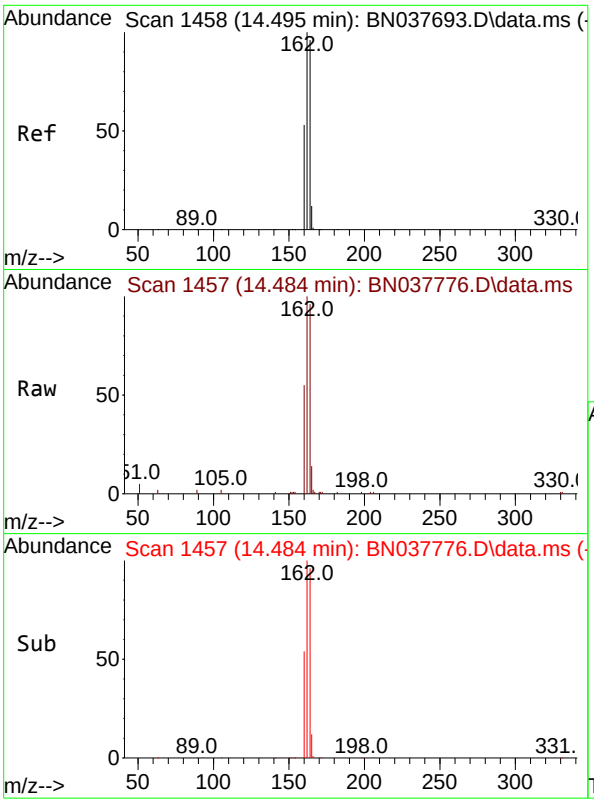




#12
2-Methylnaphthalene
Concen: 0.387 ng
RT: 12.303 min Scan# 1180
Delta R.T. -0.010 min
Lab File: BN037776.D
Acq: 18 Sep 2025 14:32

Tgt Ion:142 Resp: 12427

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 142 | 100 | | |
| 141 | 90.2 | 71.6 | 107.4 |
| 115 | 36.1 | 28.6 | 43.0 |



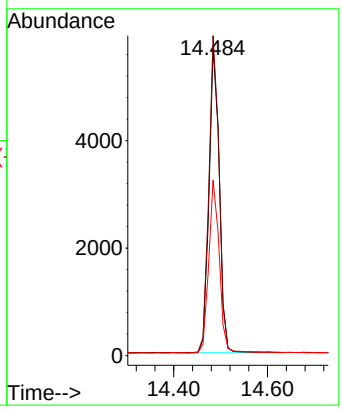


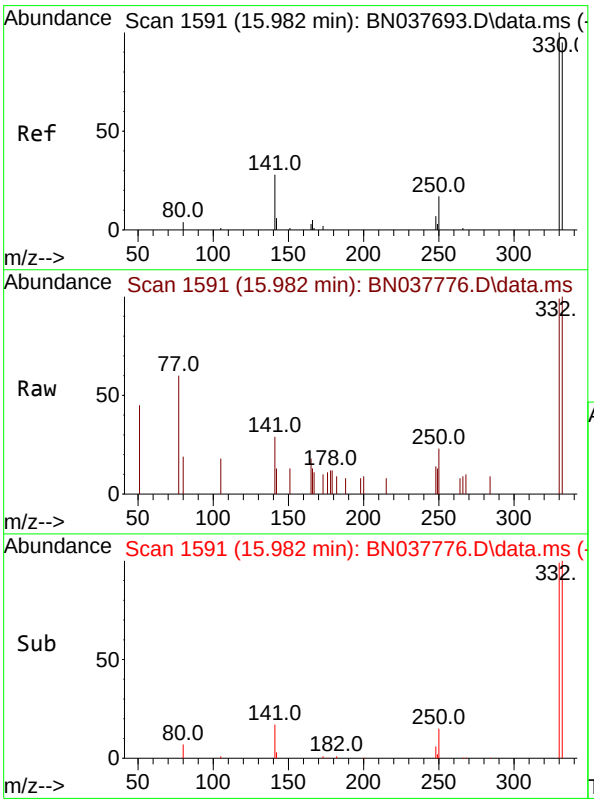

#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.484 min Scan# 14
Delta R.T. -0.011 min
Lab File: BN037776.D
Acq: 18 Sep 2025 14:32

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4

Tgt Ion:164 Resp: 8698

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 164 | 100 | | |
| 162 | 103.8 | 83.1 | 124.7 |
| 160 | 56.9 | 44.3 | 66.5 |

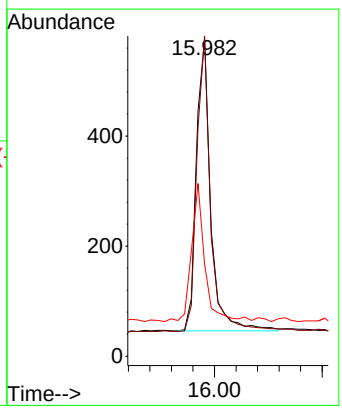


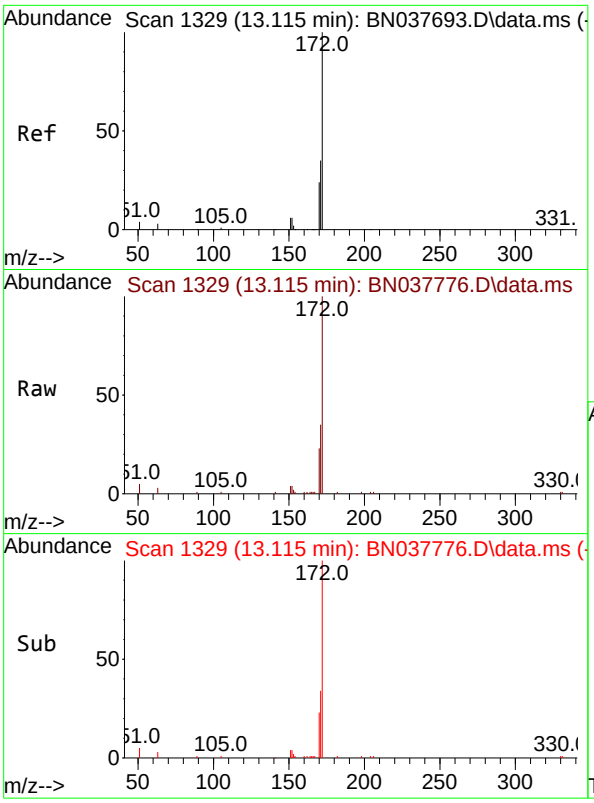




#14
2,4,6-Tribromophenol
Concen: 0.436 ng
RT: 15.982 min Scan# 1591
Delta R.T. -0.000 min
Lab File: BN037776.D
Acq: 18 Sep 2025 14:32

Tgt Ion:330 Resp: 988

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 330 | 100 | | |
| 332 | 96.3 | 75.3 | 112.9 |
| 141 | 42.6 | 35.0 | 52.4 |



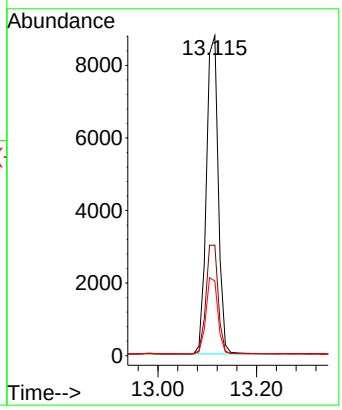


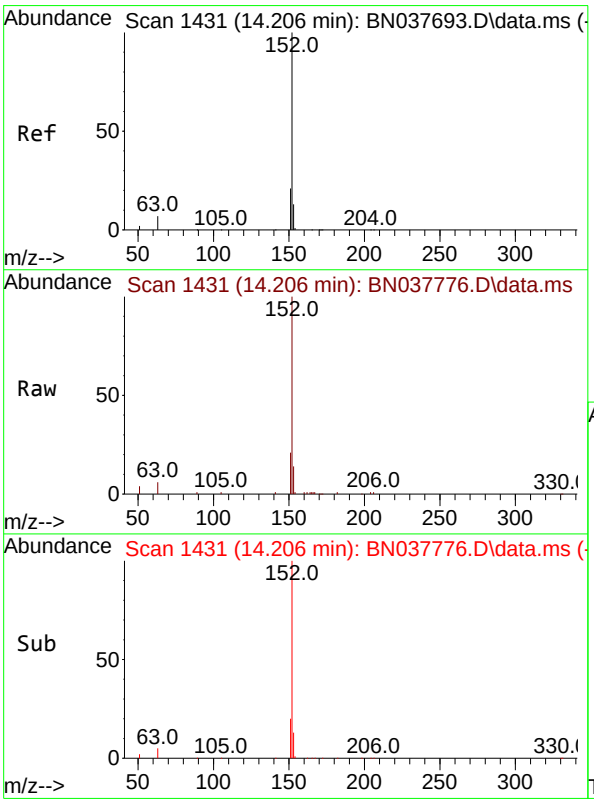

#15
2-Fluorobiphenyl
Concen: 0.401 ng
RT: 13.115 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN037776.D
Acq: 18 Sep 2025 14:32

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4

Tgt Ion:172 Resp: 14602

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 172 | 100 | | |
| 171 | 34.6 | 28.6 | 43.0 |
| 170 | 23.3 | 19.8 | 29.8 |

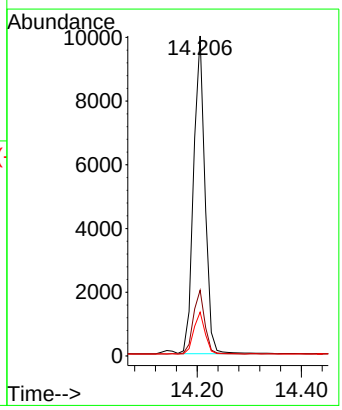


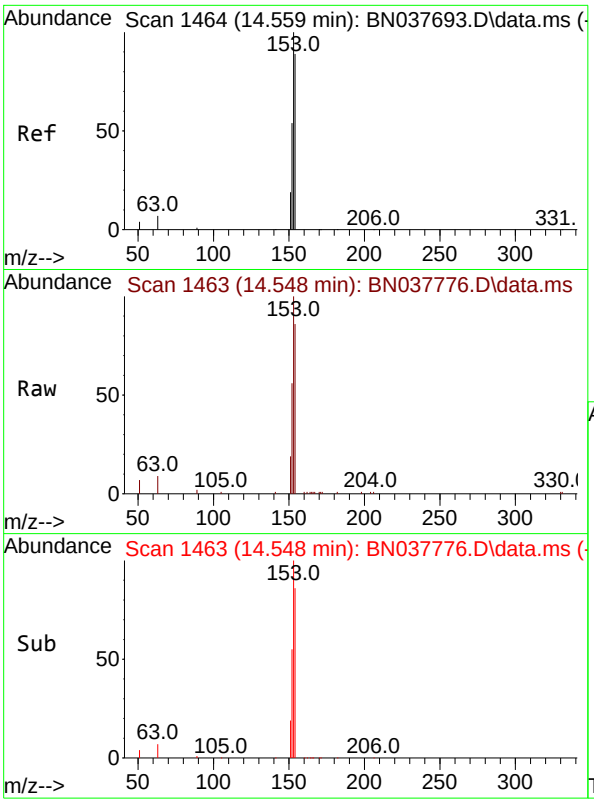




#16
Acenaphthylene
Concen: 0.380 ng
RT: 14.206 min Scan# 1431
Delta R.T. -0.000 min
Lab File: BN037776.D
Acq: 18 Sep 2025 14:32

Tgt Ion:152 Resp: 15171

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 151 | 20.2 | 16.2 | 24.2 |
| 153 | 13.1 | 10.4 | 15.6 |



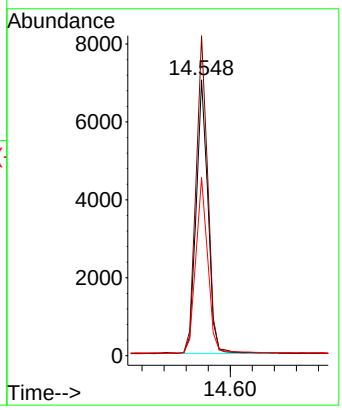


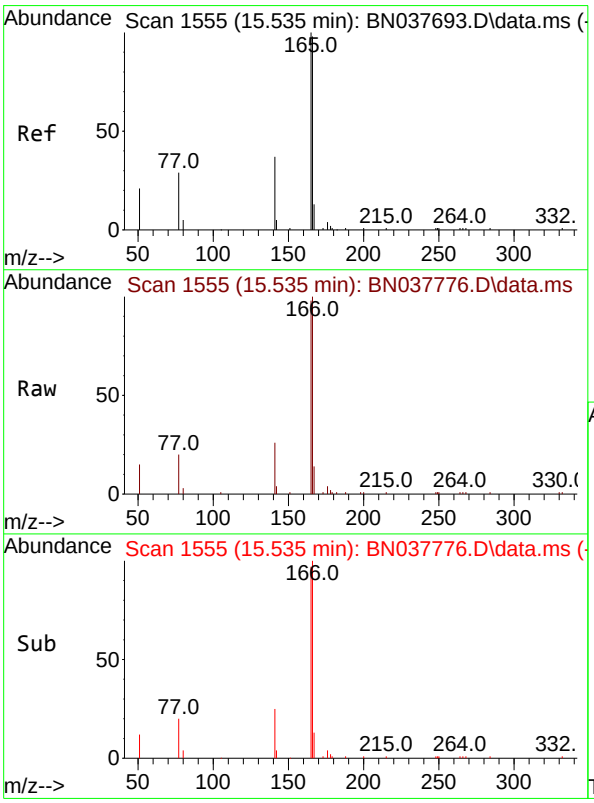

#17
Acenaphthene
Concen: 0.389 ng
RT: 14.548 min Scan# 14
Delta R.T. -0.011 min
Lab File: BN037776.D
Acq: 18 Sep 2025 14:32

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4

Tgt Ion:154 Resp: 10490

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 154 | 100 | | |
| 153 | 115.3 | 89.8 | 134.8 |
| 152 | 65.9 | 50.2 | 75.2 |

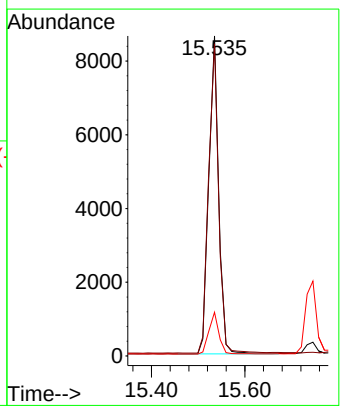


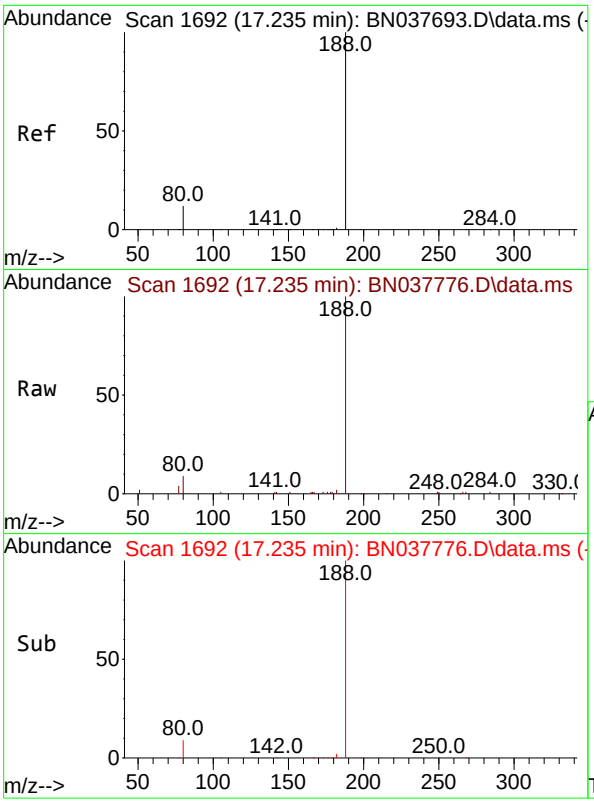




#18
Fluorene
Concen: 0.372 ng
RT: 15.535 min Scan# 1555
Delta R.T. -0.000 min
Lab File: BN037776.D
Acq: 18 Sep 2025 14:32

Tgt Ion:166 Resp: 12152

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 166 | 100 | | |
| 165 | 99.6 | 79.6 | 119.4 |
| 167 | 13.5 | 10.6 | 16.0 |



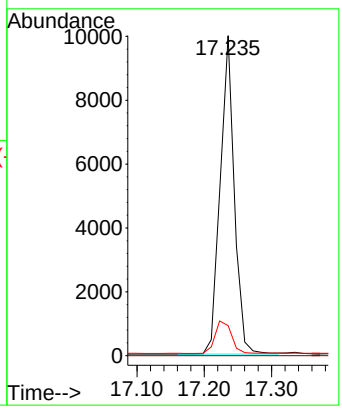


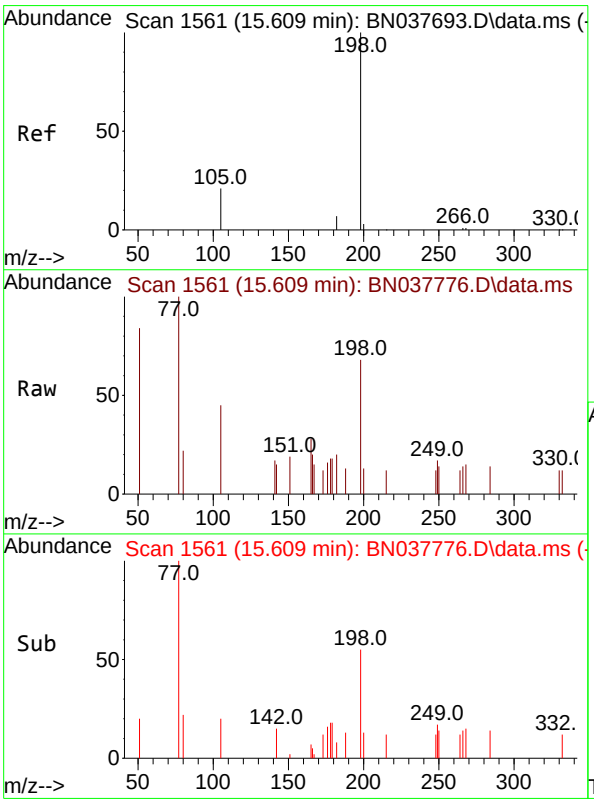

#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.235 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN037776.D
Acq: 18 Sep 2025 14:32

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4

Tgt Ion:188 Resp: 14526

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 188 | 100 | | |
| 94 | 0.0 | 0.0 | 0.0 |
| 80 | 9.4 | 10.6 | 15.8# |

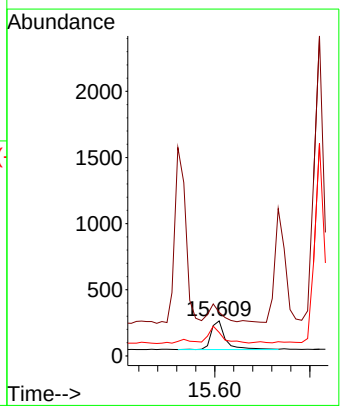


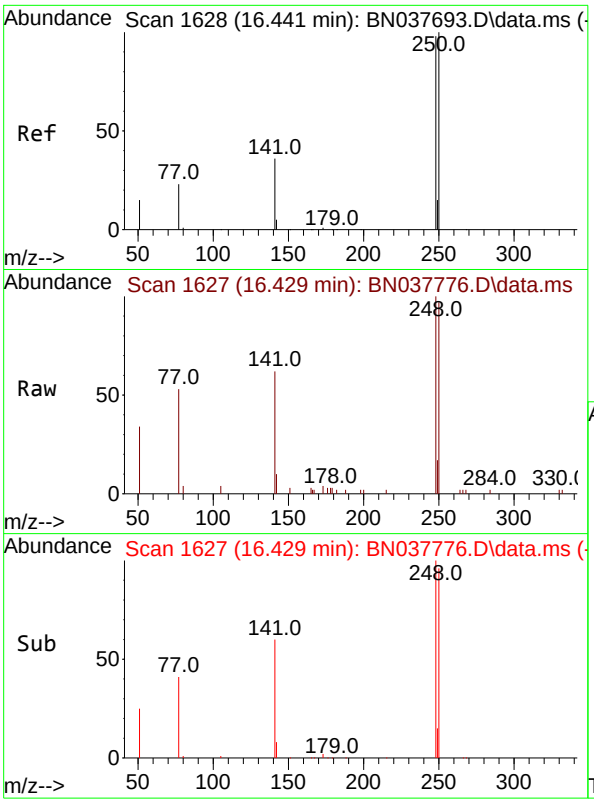




#20
4,6-Dinitro-2-methylphenol
Concen: 0.337 ng
RT: 15.609 min Scan# 1561
Delta R.T. 0.000 min
Lab File: BN037776.D
Acq: 18 Sep 2025 14:32

Tgt Ion:198 Resp: 454

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 198 | 100 | | |
| 51 | 125.0 | 95.1 | 142.7 |
| 105 | 67.0 | 53.8 | 80.6 |



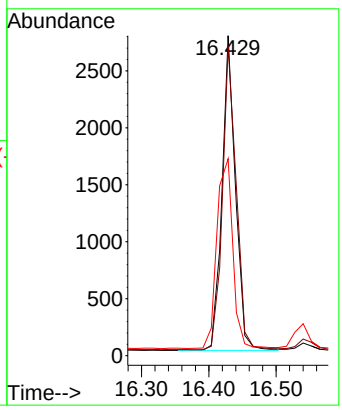


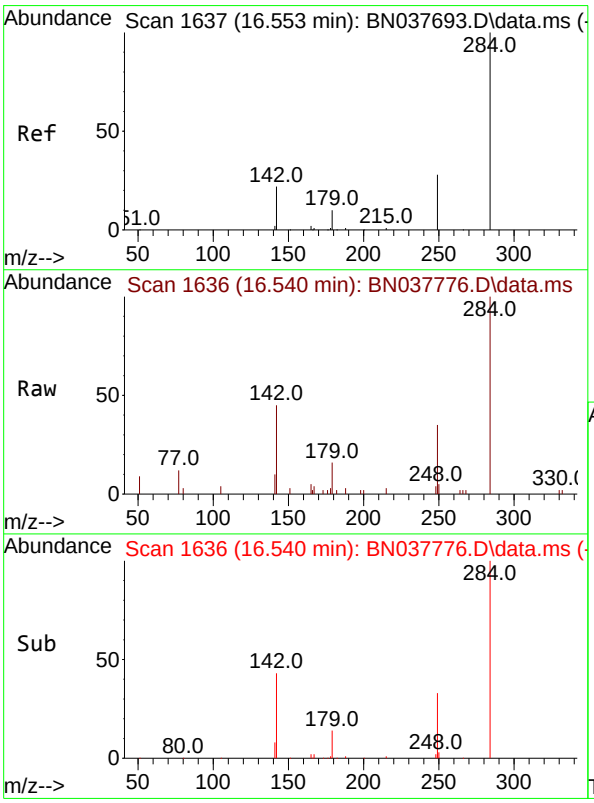

#21
4-Bromophenyl-phenylether
Concen: 0.405 ng
RT: 16.429 min Scan# 1
Delta R.T. -0.013 min
Lab File: BN037776.D
Acq: 18 Sep 2025 14:32

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4

Tgt Ion:248 Resp: 3832

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 248 | 100 | | |
| 250 | 96.7 | 81.5 | 122.3 |
| 141 | 61.6 | 30.8 | 46.2# |

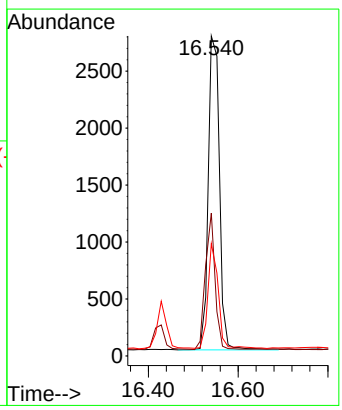


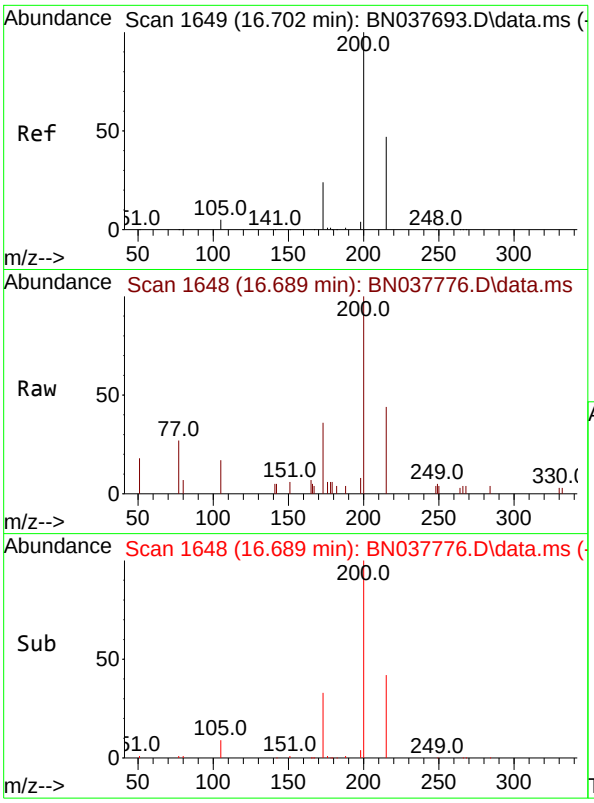




#22
Hexachlorobenzene
Concen: 0.435 ng
RT: 16.540 min Scan# 1636
Delta R.T. -0.013 min
Lab File: BN037776.D
Acq: 18 Sep 2025 14:32

Tgt Ion:284 Resp: 4737

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 284 | 100 | | |
| 142 | 37.4 | 30.9 | 46.3 |
| 249 | 31.0 | 24.8 | 37.2 |



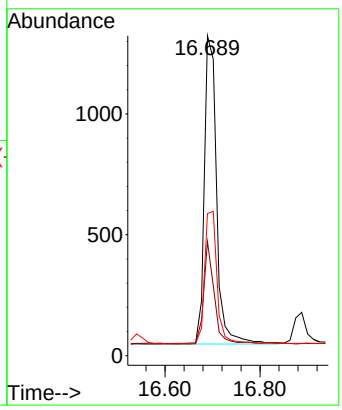


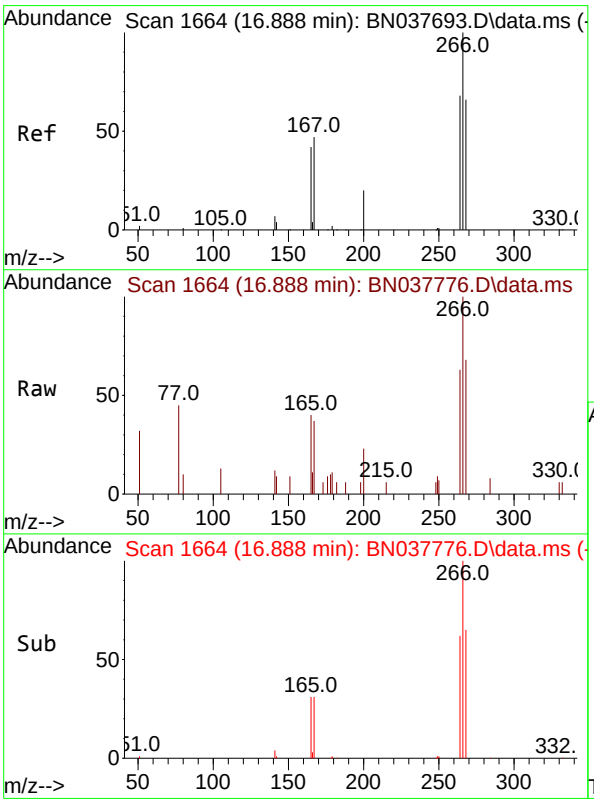

#23
Atrazine
Concen: 0.382 ng
RT: 16.689 min Scan# 1
Delta R.T. -0.013 min
Lab File: BN037776.D
Acq: 18 Sep 2025 14:32

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4

Tgt Ion:200 Resp: 2300

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 200 | 100 | | |
| 173 | 35.6 | 21.4 | 32.2# |
| 215 | 44.4 | 39.2 | 58.8 |

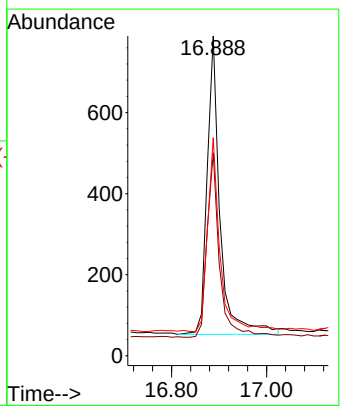


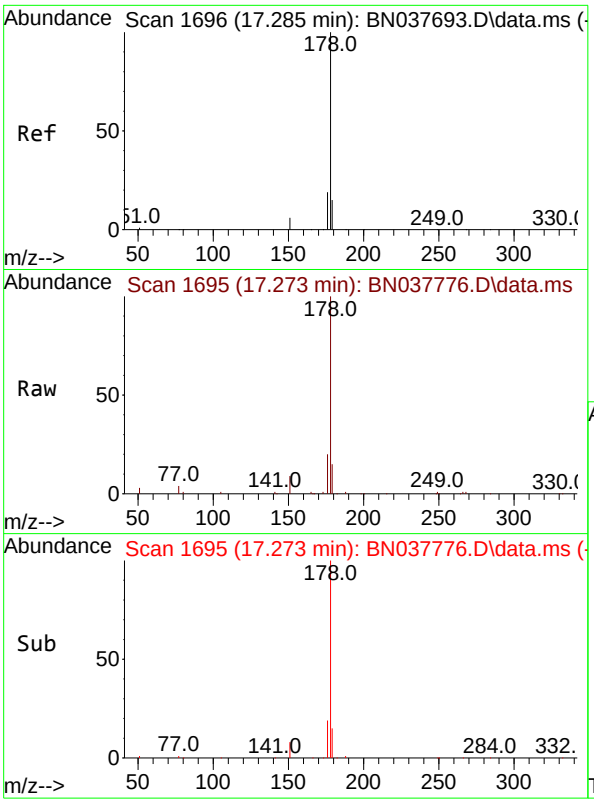




#24
Pentachlorophenol
Concen: 0.438 ng
RT: 16.888 min Scan# 1664
Delta R.T. -0.000 min
Lab File: BN037776.D
Acq: 18 Sep 2025 14:32

Tgt Ion:266 Resp: 1384

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 266 | 100 | | |
| 264 | 60.4 | 51.6 | 77.4 |
| 268 | 63.2 | 53.2 | 79.8 |



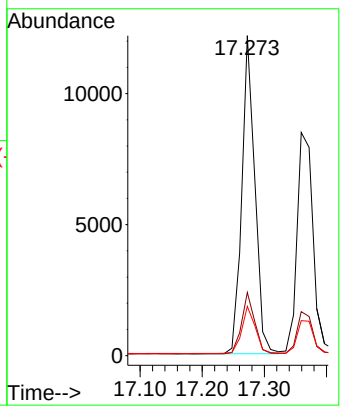


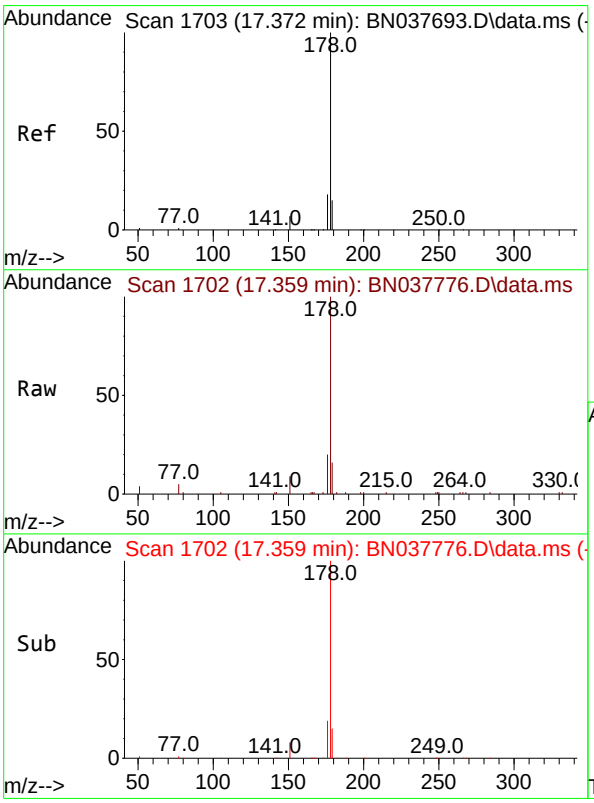

#25
Phenanthrene
Concen: 0.388 ng
RT: 17.273 min Scan# 1
Delta R.T. -0.013 min
Lab File: BN037776.D
Acq: 18 Sep 2025 14:32

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4

Tgt Ion:178 Resp: 17751

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 178 | 100 | | |
| 176 | 19.3 | 15.3 | 22.9 |
| 179 | 15.5 | 12.2 | 18.2 |

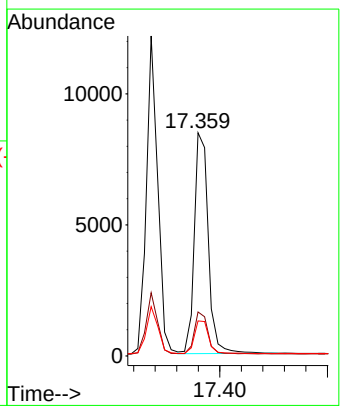


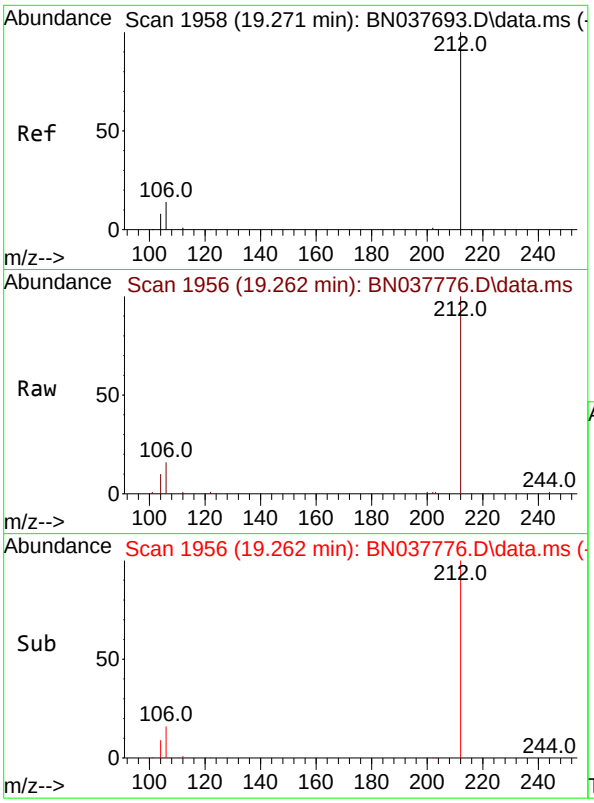




#26
Anthracene
Concen: 0.375 ng
RT: 17.359 min Scan# 1702
Delta R.T. -0.013 min
Lab File: BN037776.D
Acq: 18 Sep 2025 14:32

Tgt Ion:178 Resp: 15208

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 178 | 100 | | |
| 176 | 18.7 | 14.6 | 22.0 |
| 179 | 15.4 | 12.2 | 18.4 |



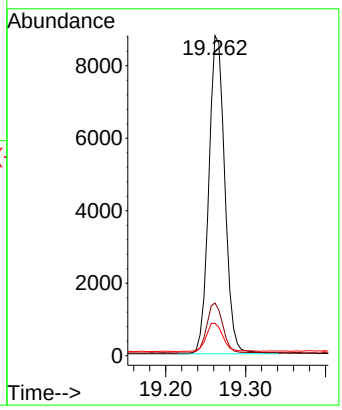


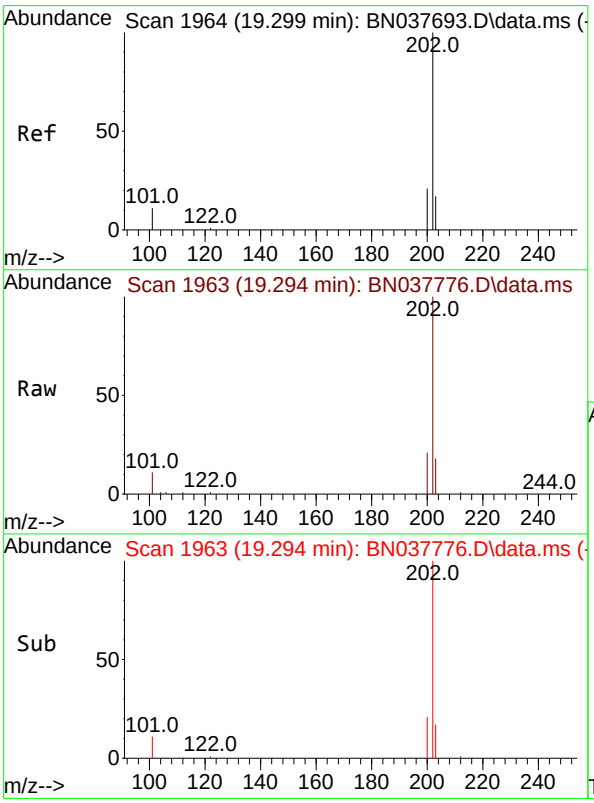

#27
Fluoranthene-d10
Concen: 0.334 ng
RT: 19.262 min Scan# 1
Delta R.T. -0.009 min
Lab File: BN037776.D
Acq: 18 Sep 2025 14:32

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4

Tgt Ion:212 Resp: 12188

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 212 | 100 | | |
| 106 | 15.9 | 12.2 | 18.2 |
| 104 | 9.7 | 6.9 | 10.3 |

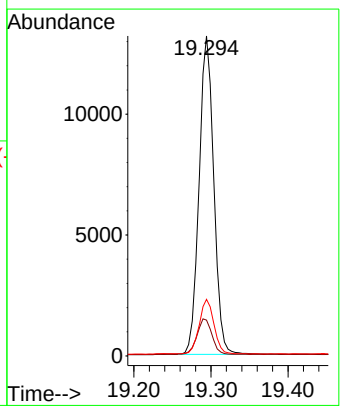


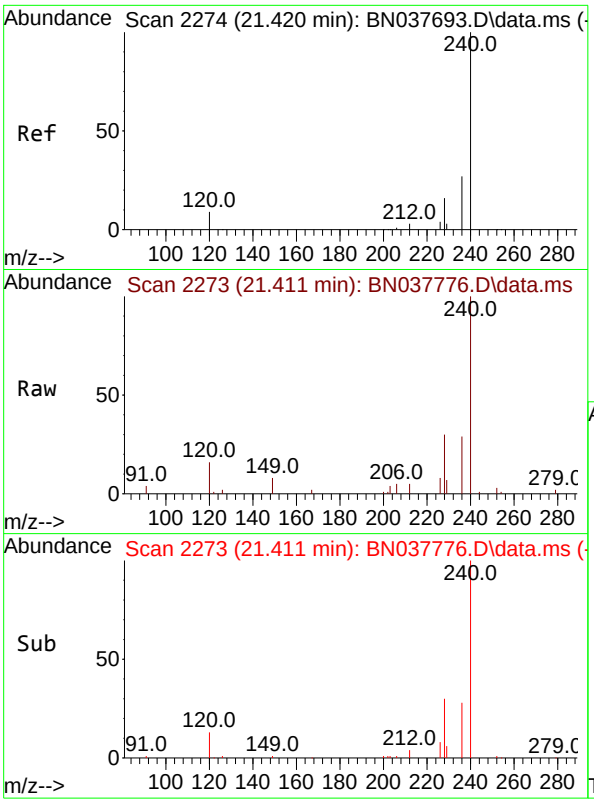




#28
Fluoranthene
Concen: 0.348 ng
RT: 19.294 min Scan# 1963
Delta R.T. -0.005 min
Lab File: BN037776.D
Acq: 18 Sep 2025 14:32

Tgt Ion:202 Resp: 17450

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 202 | 100 | | |
| 101 | 11.7 | 9.3 | 13.9 |
| 203 | 17.1 | 13.7 | 20.5 |



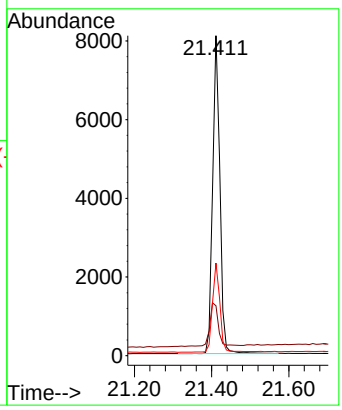


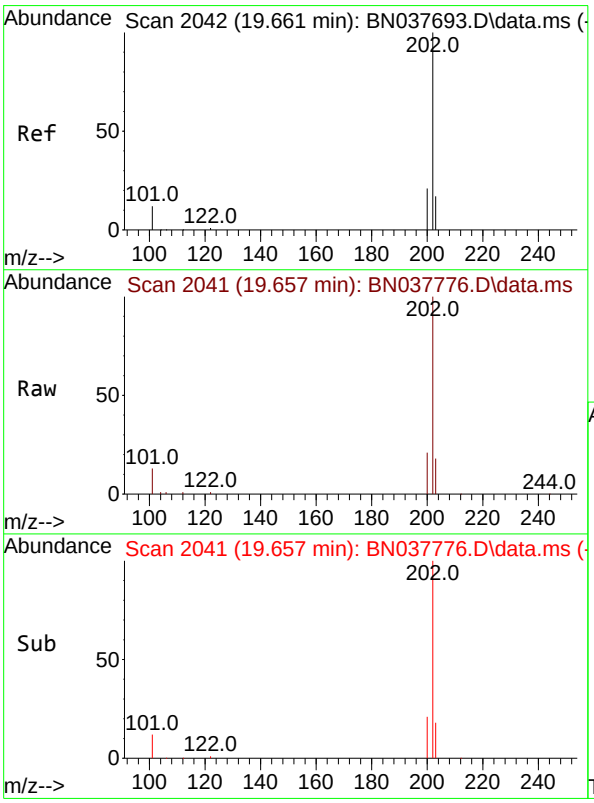

#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.411 min Scan# 2
Delta R.T. -0.009 min
Lab File: BN037776.D
Acq: 18 Sep 2025 14:32

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4

Tgt Ion:240 Resp: 10438

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 240 | 100 | | |
| 120 | 15.6 | 9.2 | 13.8# |
| 236 | 28.9 | 22.6 | 33.8 |

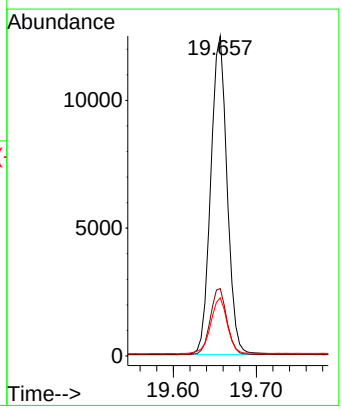


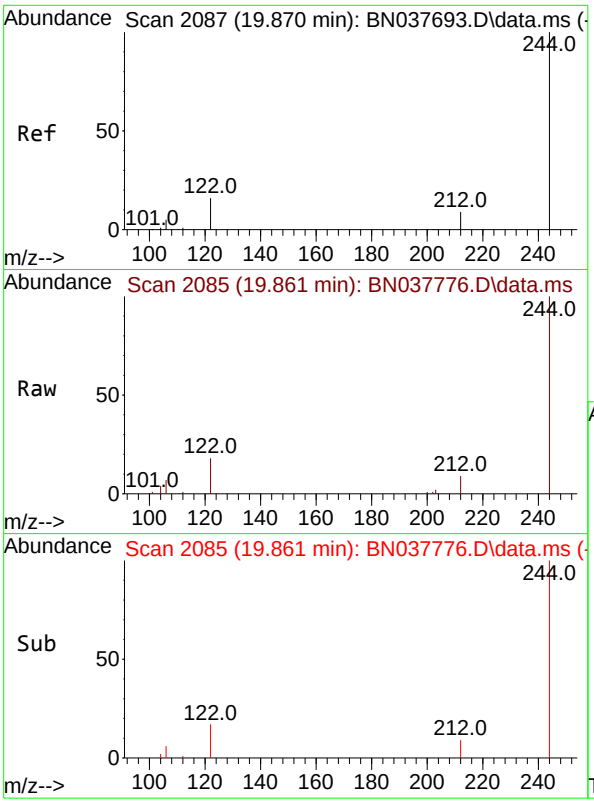




#30
Pyrene
Concen: 0.418 ng
RT: 19.657 min Scan# 2041
Delta R.T. -0.005 min
Lab File: BN037776.D
Acq: 18 Sep 2025 14:32

Tgt Ion:202 Resp: 17087

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 202 | 100 | | |
| 200 | 21.1 | 16.8 | 25.2 |
| 203 | 17.9 | 14.3 | 21.5 |



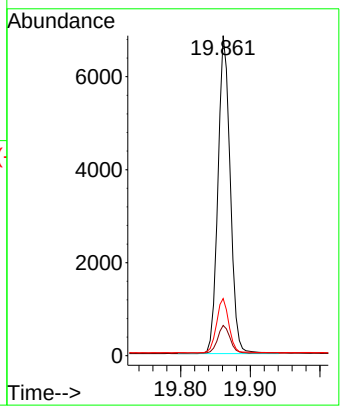


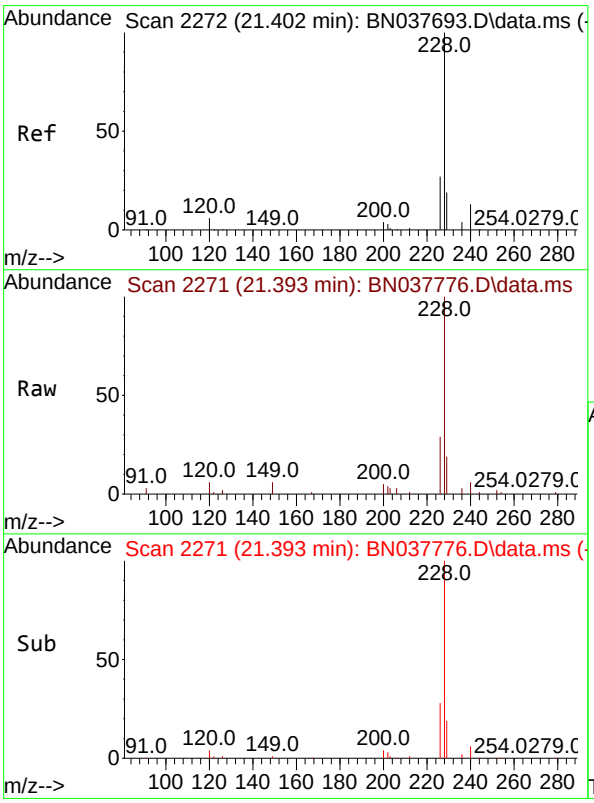

#31
Terphenyl-d14
Concen: 0.394 ng
RT: 19.861 min Scan# 2
Delta R.T. -0.009 min
Lab File: BN037776.D
Acq: 18 Sep 2025 14:32

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4

Tgt Ion:244 Resp: 8356

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 244 | 100 | | |
| 212 | 9.5 | 7.5 | 11.3 |
| 122 | 17.8 | 13.2 | 19.8 |

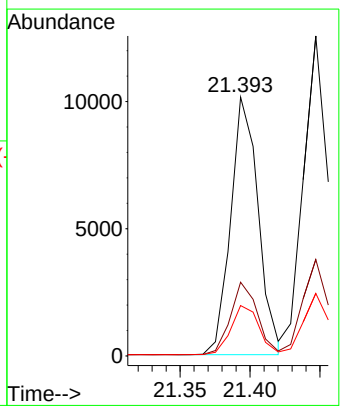


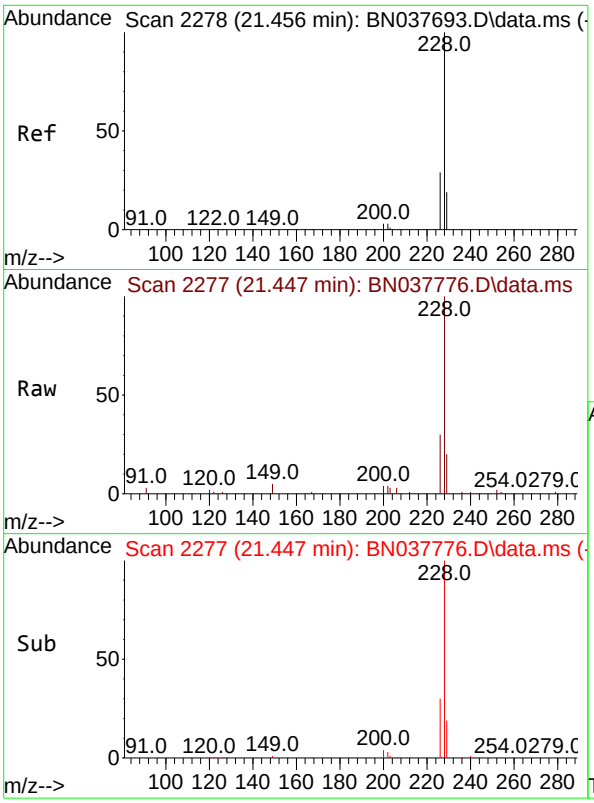




#32
Benzo(a)anthracene
Concen: 0.381 ng
RT: 21.393 min Scan# 2271
Delta R.T. -0.009 min
Lab File: BN037776.D
Acq: 18 Sep 2025 14:32

Tgt Ion:228 Resp: 13864

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 228 | 100 | | |
| 226 | 28.5 | 22.2 | 33.2 |
| 229 | 19.4 | 15.8 | 23.6 |



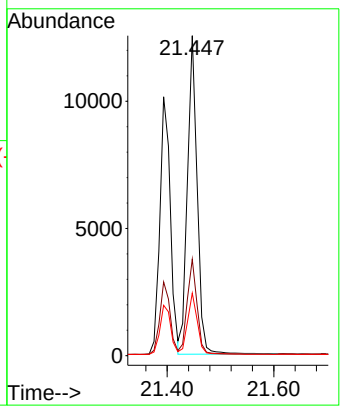


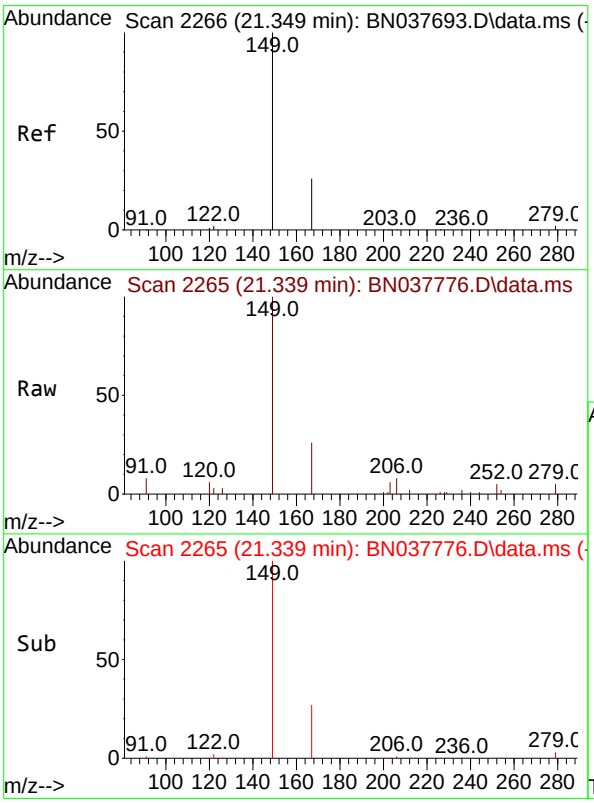

#33
Chrysene
Concen: 0.408 ng
RT: 21.447 min Scan# 2
Delta R.T. -0.009 min
Lab File: BN037776.D
Acq: 18 Sep 2025 14:32

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4

Tgt Ion:228 Resp: 15945

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 228 | 100 | | |
| 226 | 30.1 | 23.5 | 35.3 |
| 229 | 19.6 | 15.9 | 23.9 |

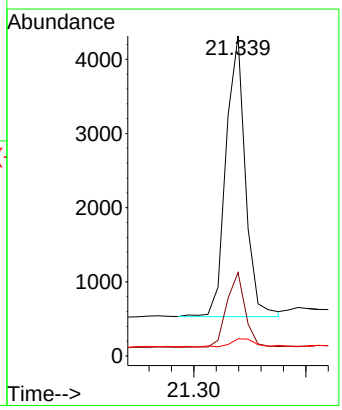


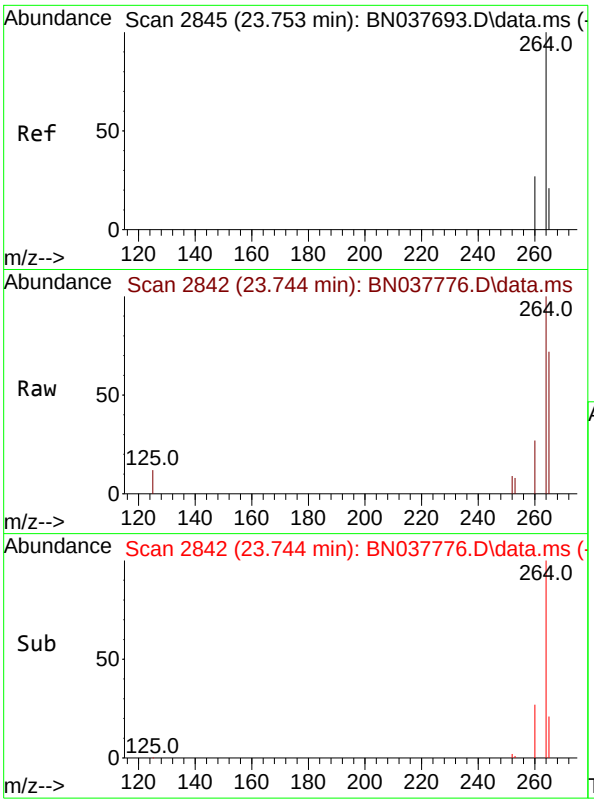




#34
Bis(2-ethylhexyl)phthalate
Concen: 0.422 ng
RT: 21.339 min Scan# 2265
Delta R.T. -0.009 min
Lab File: BN037776.D
Acq: 18 Sep 2025 14:32

Tgt Ion:149 Resp: 4553

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 149 | 100 | | |
| 167 | 26.0 | 20.8 | 31.2 |
| 279 | 3.6 | 3.3 | 4.9 |



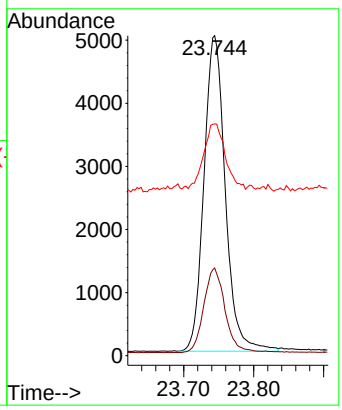


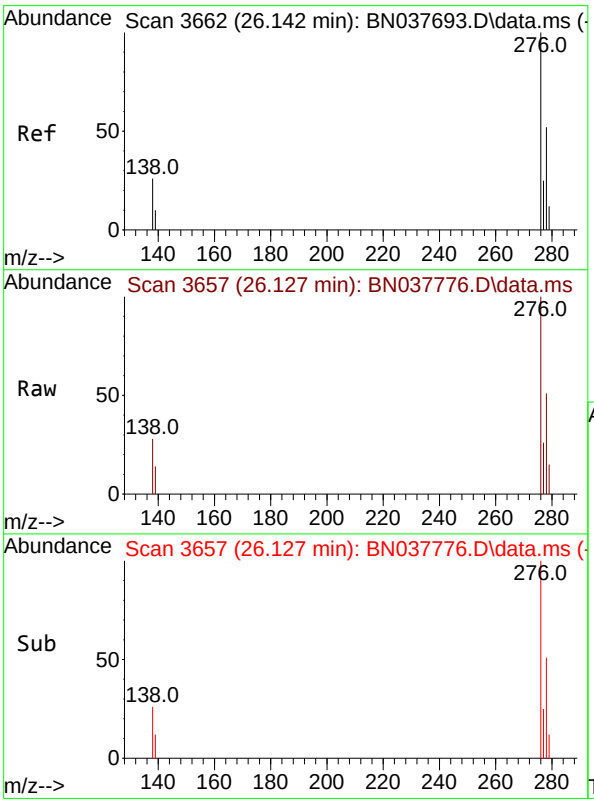

#35
Perylene-d12
Concen: 0.400 ng
RT: 23.744 min Scan# 2
Delta R.T. -0.009 min
Lab File: BN037776.D
Acq: 18 Sep 2025 14:32

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4

Tgt Ion:264 Resp: 10600

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 264 | 100 | | |
| 260 | 27.4 | 21.8 | 32.8 |
| 265 | 72.4 | 39.4 | 59.2# |

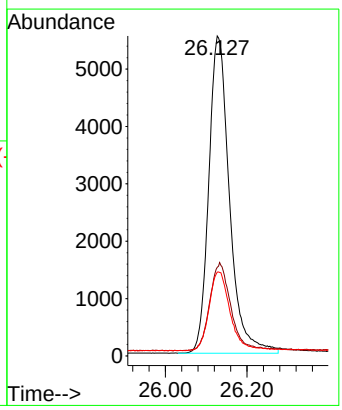


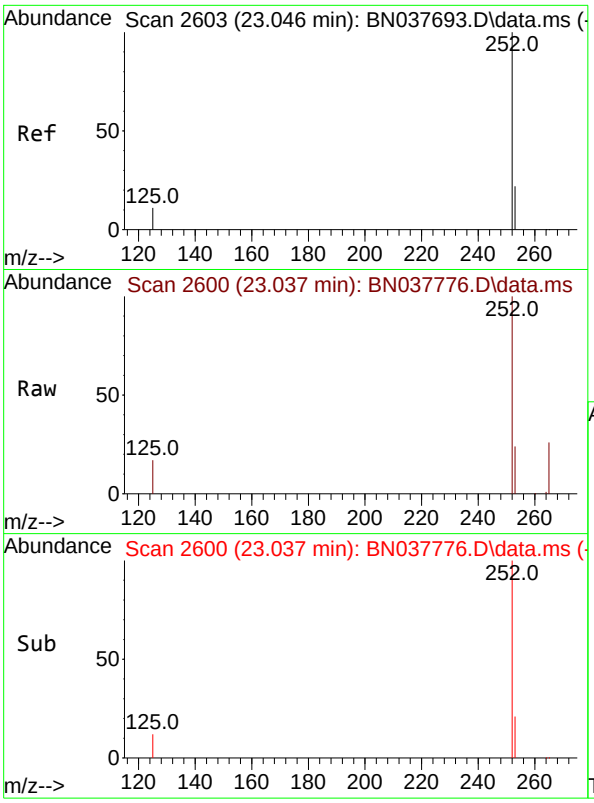




#36
Indeno(1,2,3-cd)pyrene
Concen: 0.437 ng
RT: 26.127 min Scan# 3657
Delta R.T. -0.015 min
Lab File: BN037776.D
Acq: 18 Sep 2025 14:32

Tgt Ion:276 Resp: 19472

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 276 | 100 | | |
| 138 | 27.6 | 21.9 | 32.9 |
| 277 | 25.3 | 20.1 | 30.1 |



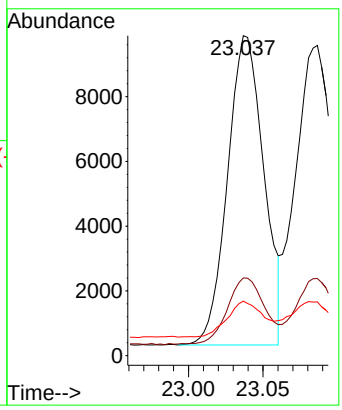


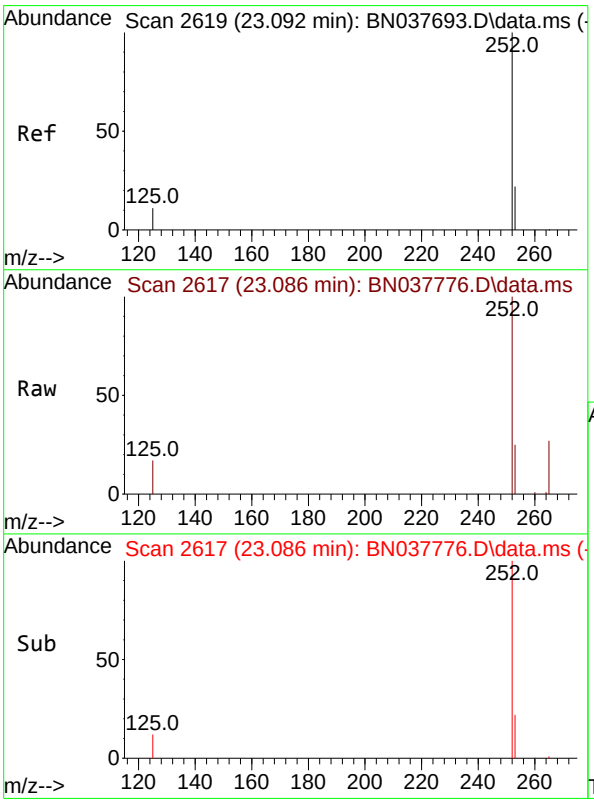

#37
Benzo(b)fluoranthene
Concen: 0.387 ng
RT: 23.037 min Scan# 2
Delta R.T. -0.009 min
Lab File: BN037776.D
Acq: 18 Sep 2025 14:32

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4

Tgt Ion:252 Resp: 16161

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 24.3 | 19.4 | 29.2 |
| 125 | 17.1 | 11.2 | 16.8# |

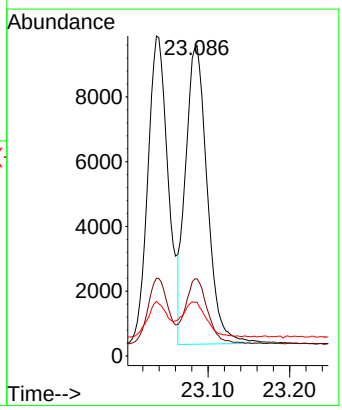


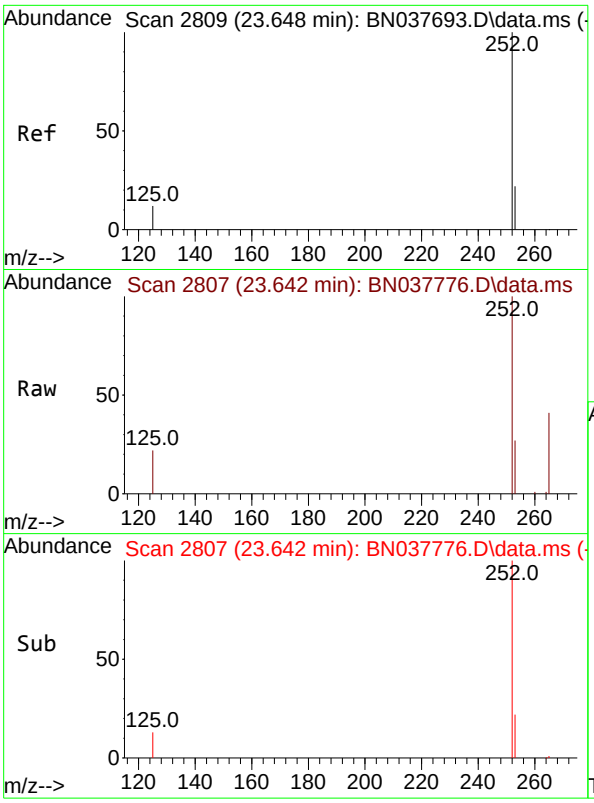




#38
Benzo(k)fluoranthene
Concen: 0.402 ng
RT: 23.086 min Scan# 2617
Delta R.T. -0.006 min
Lab File: BN037776.D
Acq: 18 Sep 2025 14:32

Tgt Ion:252 Resp: 17089

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 24.9 | 19.4 | 29.0 |
| 125 | 17.3 | 11.6 | 17.4 |



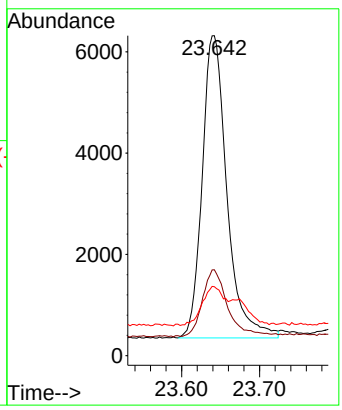


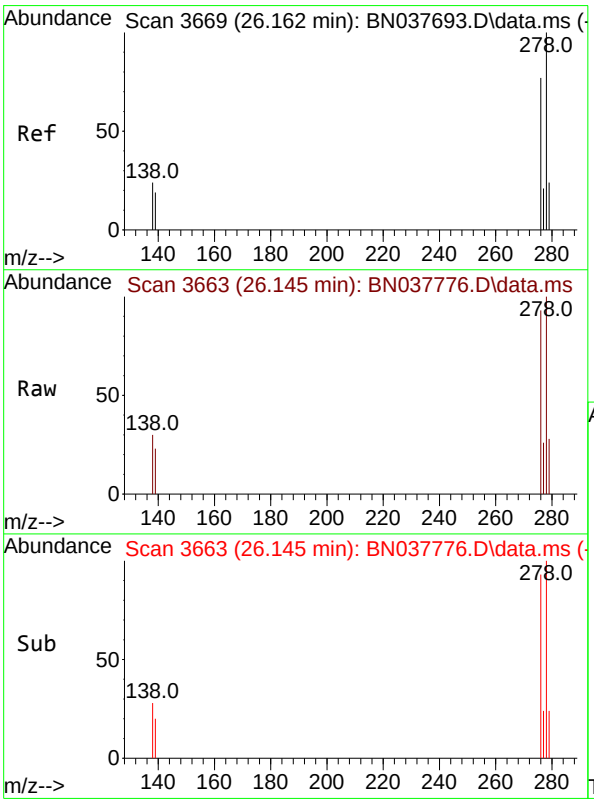

#39
Benzo(a)pyrene
Concen: 0.394 ng
RT: 23.642 min Scan# 2
Delta R.T. -0.006 min
Lab File: BN037776.D
Acq: 18 Sep 2025 14:32

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4

Tgt Ion:252 Resp: 13152

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 26.9 | 20.8 | 31.2 |
| 125 | 21.6 | 13.9 | 20.9# |

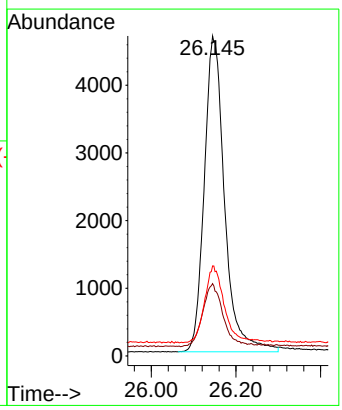


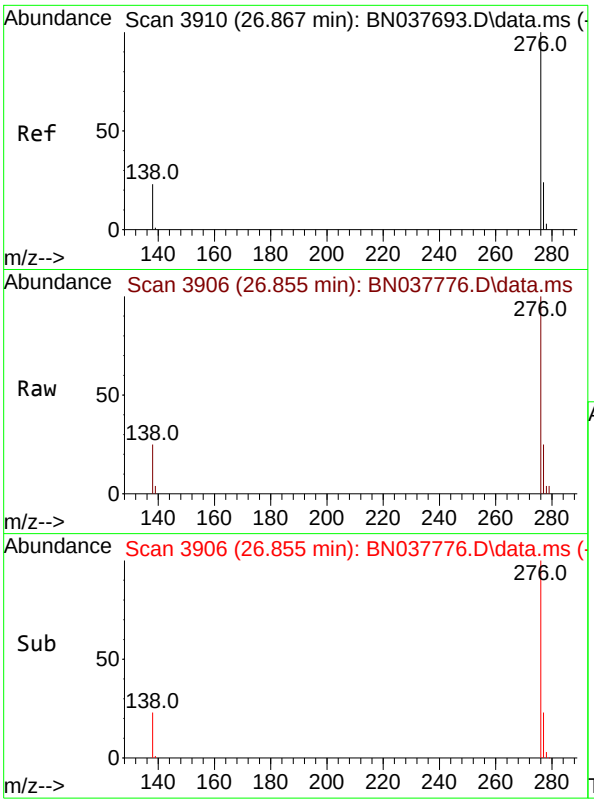




#40
Dibenzo(a,h)anthracene
Concen: 0.436 ng
RT: 26.145 min Scan# 3663
Delta R.T. -0.018 min
Lab File: BN037776.D
Acq: 18 Sep 2025 14:32

Tgt Ion:278 Resp: 15512

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 278 | 100 | | |
| 139 | 22.6 | 17.8 | 26.6 |
| 279 | 28.2 | 22.0 | 33.0 |



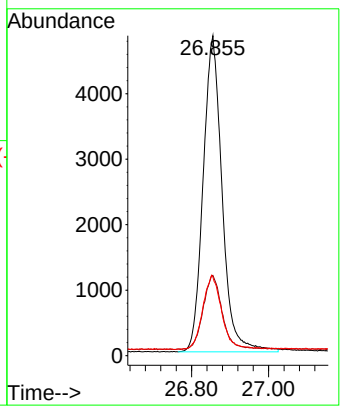



#41
Benzo(g,h,i)perylene
Concen: 0.413 ng
RT: 26.855 min Scan# 3
Delta R.T. -0.012 min
Lab File: BN037776.D
Acq: 18 Sep 2025 14:32

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4

Tgt Ion:276 Resp: 16486

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 276 | 100 | | |
| 277 | 25.1 | 20.6 | 31.0 |
| 138 | 24.5 | 20.2 | 30.2 |



Sample Results: **BN037776.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN091825\
Data File : BN037776.D
Acq On : 18 Sep 2025 14:32
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 2 Sample Multiplier: 1

**Instrument :**
BNA_N
**LabSampleId :**
SSTDCCC0.4

Quant Time: Sep 18 15:01:11 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN091125.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Sep 11 14:20:01 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 | 143 | 0.00 |
| 2 | | 1,4-Dioxane | 0.417 | 0.428 | -2.6 | 145 | 0.00 |
| 3 | | n-Nitrosodimethylamine | 0.544 | 0.513 | 5.7 | 130 | 0.00 |
| 4 | S | 2-Fluorophenol | 0.918 | 0.890 | 3.1 | 143 | 0.00 |
| 5 | S | Phenol-d6 | 1.191 | 1.130 | 5.1 | 140 | 0.00 |
| 6 | | bis(2-Chloroethyl)ether | 1.064 | 1.059 | 0.5 | 141 | 0.00 |
| 7 | I | Naphthalene-d8 | 1.000 | 1.000 | 0.0 | 143 | -0.01 |
| 8 | S | Nitrobenzene-d5 | 0.293 | 0.298 | -1.7 | 150 | -0.01 |
| 9 | | Naphthalene | 1.093 | 1.070 | 2.1 | 143 | 0.00 |
| 10 | | Hexachlorobutadiene | 0.198 | 0.198 | 0.0 | 144 | -0.01 |
| 11 | SURR | 2-Methylnaphthalene-d10 | 0.530 | 0.497 | 6.2 | 143 | -0.01 |
| 12 | | 2-Methylnaphthalene | 0.676 | 0.655 | 3.1 | 142 | -0.01 |
| 13 | I | Acenaphthene-d10 | 1.000 | 1.000 | 0.0 | 140 | -0.01 |
| 14 | S | 2,4,6-Tribromophenol | 0.104 | 0.114 | -9.6 | 158# | 0.00 |
| 15 | S | 2-Fluorobiphenyl | 1.673 | 1.679 | -0.4 | 143 | 0.00 |
| 16 | | Acenaphthylene | 1.834 | 1.744 | 4.9 | 137 | 0.00 |
| 17 | | Acenaphthene | 1.240 | 1.206 | 2.7 | 139 | -0.01 |
| 18 | | Fluorene | 1.502 | 1.397 | 7.0 | 136 | 0.00 |
| 19 | I | Phenanthrene-d10 | 1.000 | 1.000 | 0.0 | 129 | 0.00 |
| 20 | | 4,6-Dinitro-2-methylphenol | 0.037 | 0.031 | 16.2 | 122 | 0.00 |
| 21 | | 4-Bromophenyl-phenylether | 0.261 | 0.264 | -1.1 | 136 | -0.01 |
| 22 | | Hexachlorobenzene | 0.300 | 0.326 | -8.7 | 143 | -0.01 |
| 23 | | Atrazine | 0.166 | 0.158 | 4.8 | 135 | -0.01 |
| 24 | | Pentachlorophenol | 0.087 | 0.095 | -9.2 | 165# | 0.00 |
| 25 | | Phenanthrene | 1.259 | 1.222 | 2.9 | 129 | -0.01 |
| 26 | | Anthracene | 1.116 | 1.047 | 6.2 | 126 | -0.01 |
| 27 | SURR | Fluoranthene-d10 | 1.004 | 0.839 | 16.4 | 116 | 0.00 |
| 28 | | Fluoranthene | 1.381 | 1.201 | 13.0 | 118 | 0.00 |
| 29 | I | Chrysene-d12 | 1.000 | 1.000 | 0.0 | 111 | 0.00 |
| 30 | | Pyrene | 1.566 | 1.637 | -4.5 | 117 | 0.00 |
| 31 | S | Terphenyl-d14 | 0.812 | 0.801 | 1.4 | 111 | 0.00 |
| 32 | | Benzo(a)anthracene | 1.395 | 1.328 | 4.8 | 110 | 0.00 |
| 33 | | Chrysene | 1.496 | 1.528 | -2.1 | 114 | 0.00 |
| 34 | | Bis(2-ethylhexyl)phthalate | 0.414 | 0.436 | -5.3 | 129 | 0.00 |
| 35 | I | Perylene-d12 | 1.000 | 1.000 | 0.0 | 118 | 0.00 |
| 36 | | Indeno(1,2,3-cd)pyrene | 1.681 | 1.837 | -9.3 | 141 | -0.01 |
| 37 | | Benzo(b)fluoranthene | 1.575 | 1.525 | 3.2 | 116 | 0.00 |
| 38 | | Benzo(k)fluoranthene | 1.606 | 1.612 | -0.4 | 125 | 0.00 |
| 39 | C | Benzo(a)pyrene | 1.261 | 1.241 | 1.6 | 122 | 0.00 |
| 40 | | Dibenzo(a,h)anthracene | 1.342 | 1.463 | -9.0 | 143 | -0.02 |
| 41 | | Benzo(g,h,i)perylene | 1.506 | 1.555 | -3.3 | 127 | -0.01 |

(#) = Out of Range SPCC's out = 0 CCC's out = 0

**Instrument :**
BNA_N
**LabSampleId :**
SSTDCCC0.4

Sample Results: **BN037776.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN091825\
Data File : BN037776.D
Acq On : 18 Sep 2025 14:32
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 2 Sample Multiplier: 1

**Instrument :**
BNA_N
**LabSampleId :**
SSTDCCC0.4

Quant Time: Sep 18 15:01:11 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN091125.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Sep 11 14:20:01 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 | 143 | 0.00 |
| 2 | | 1,4-Dioxane | 0.400 | 0.411 | -2.7 | 145 | 0.00 |
| 3 | | n-Nitrosodimethylamine | 0.400 | 0.377 | 5.8 | 130 | 0.00 |
| 4 | S | 2-Fluorophenol | 0.400 | 0.388 | 3.0 | 143 | 0.00 |
| 5 | S | Phenol-d6 | 0.400 | 0.380 | 5.0 | 140 | 0.00 |
| 6 | | bis(2-Chloroethyl)ether | 0.400 | 0.398 | 0.5 | 141 | 0.00 |
| 7 | I | Naphthalene-d8 | 0.400 | 0.400 | 0.0 | 143 | -0.01 |
| 8 | S | Nitrobenzene-d5 | 0.400 | 0.407 | -1.7 | 150 | -0.01 |
| 9 | | Naphthalene | 0.400 | 0.391 | 2.3 | 143 | 0.00 |
| 10 | | Hexachlorobutadiene | 0.400 | 0.400 | 0.0 | 144 | -0.01 |
| 11 | SURR | 2-Methylnaphthalene-d10 | 0.400 | 0.375 | 6.3 | 143 | -0.01 |
| 12 | | 2-Methylnaphthalene | 0.400 | 0.387 | 3.3 | 142 | -0.01 |
| 13 | I | Acenaphthene-d10 | 0.400 | 0.400 | 0.0 | 140 | -0.01 |
| 14 | S | 2,4,6-Tribromophenol | 0.400 | 0.436 | -9.0 | 158 | 0.00 |
| 15 | S | 2-Fluorobiphenyl | 0.400 | 0.401 | -0.3 | 143 | 0.00 |
| 16 | | Acenaphthylene | 0.400 | 0.380 | 5.0 | 137 | 0.00 |
| 17 | | Acenaphthene | 0.400 | 0.389 | 2.8 | 139 | -0.01 |
| 18 | | Fluorene | 0.400 | 0.372 | 7.0 | 136 | 0.00 |
| 19 | I | Phenanthrene-d10 | 0.400 | 0.400 | 0.0 | 129 | 0.00 |
| 20 | | 4,6-Dinitro-2-methylphenol | 0.400 | 0.337 | 15.8 | 122 | 0.00 |
| 21 | | 4-Bromophenyl-phenylether | 0.400 | 0.405 | -1.3 | 136 | -0.01 |
| 22 | | Hexachlorobenzene | 0.400 | 0.435 | -8.7 | 143 | -0.01 |
| 23 | | Atrazine | 0.400 | 0.382 | 4.5 | 135 | -0.01 |
| 24 | | Pentachlorophenol | 0.400 | 0.438 | -9.5 | 165 | 0.00 |
| 25 | | Phenanthrene | 0.400 | 0.388 | 3.0 | 129 | -0.01 |
| 26 | | Anthracene | 0.400 | 0.375 | 6.3 | 126 | -0.01 |
| 27 | SURR | Fluoranthene-d10 | 0.400 | 0.334 | 16.5 | 116 | 0.00 |
| 28 | | Fluoranthene | 0.400 | 0.348 | 13.0 | 118 | 0.00 |
| 29 | I | Chrysene-d12 | 0.400 | 0.400 | 0.0 | 111 | 0.00 |
| 30 | | Pyrene | 0.400 | 0.418 | -4.5 | 117 | 0.00 |
| 31 | S | Terphenyl-d14 | 0.400 | 0.394 | 1.5 | 111 | 0.00 |
| 32 | | Benzo(a)anthracene | 0.400 | 0.381 | 4.8 | 110 | 0.00 |
| 33 | | Chrysene | 0.400 | 0.408 | -2.0 | 114 | 0.00 |
| 34 | | Bis(2-ethylhexyl)phthalate | 0.400 | 0.422 | -5.5 | 129 | 0.00 |
| 35 | I | Perylene-d12 | 0.400 | 0.400 | 0.0 | 118 | 0.00 |
| 36 | | Indeno(1,2,3-cd)pyrene | 0.400 | 0.437 | -9.2 | 141 | -0.01 |
| 37 | | Benzo(b)fluoranthene | 0.400 | 0.387 | 3.3 | 116 | 0.00 |
| 38 | | Benzo(k)fluoranthene | 0.400 | 0.402 | -0.5 | 125 | 0.00 |
| 39 | C | Benzo(a)pyrene | 0.400 | 0.394 | 1.5 | 122 | 0.00 |
| 40 | | Dibenzo(a,h)anthracene | 0.400 | 0.436 | -9.0 | 143 | -0.02 |
| 41 | | Benzo(g,h,i)perylene | 0.400 | 0.413 | -3.2 | 127 | -0.01 |

(#) = Out of Range SPCC's out = 0 CCC's out = 0

**Instrument :**
BNA_N
**LabSampleId :**
SSTDCCC0.4

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

7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: Alliance Contract: AECO15

Lab Code: ACE SDG No.: Q3095

Instrument ID: BNA_N Calibration Date/Time: 09/19/2025 00:52

Lab File ID: BN037793.D Init. Calib. Date(s): 09/11/2025 09/11/2025

EPA Sample No.: SSTDCCC0.4EC Init. Calib. Time(s): 09:56 13:33

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

| COMPOUND | RRF | RRF0.4 | MIN RRF | %D | MAX%D |
|---|---|---|---|---|---|
| 2-Methylnaphthalene-d10 | 0.530 | 0.496 | | -6.4 | 50.0 |
| Fluoranthene-d10 | 1.004 | 0.954 | | -5.0 | 50.0 |
| 2-Fluorophenol | 0.918 | 0.923 | | 0.5 | 50.0 |
| Phenol-d6 | 1.191 | 1.148 | | -3.6 | 50.0 |
| Nitrobenzene-d5 | 0.293 | 0.295 | | 0.7 | 50.0 |
| 2-Fluorobiphenyl | 1.673 | 1.632 | | -2.5 | 50.0 |
| 2,4,6-Tribromophenol | 0.104 | 0.127 | | 22.1 | 50.0 |
| Terphenyl-d14 | 0.812 | 0.785 | | -3.3 | 50.0 |
| 1,4-Dioxane | 0.417 | 0.436 | | 4.6 | 50.0 |

All other compounds must meet a minimum RRF of 0.010.

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN091825\
Data File : BN037793.D
Acq On : 19 Sep 2025 00:52
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 19 Sample Multiplier: 1

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4EC

Quant Time: Sep 19 04:13:20 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN091125.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Sep 11 14:20:01 2025
Response via : Initial Calibration

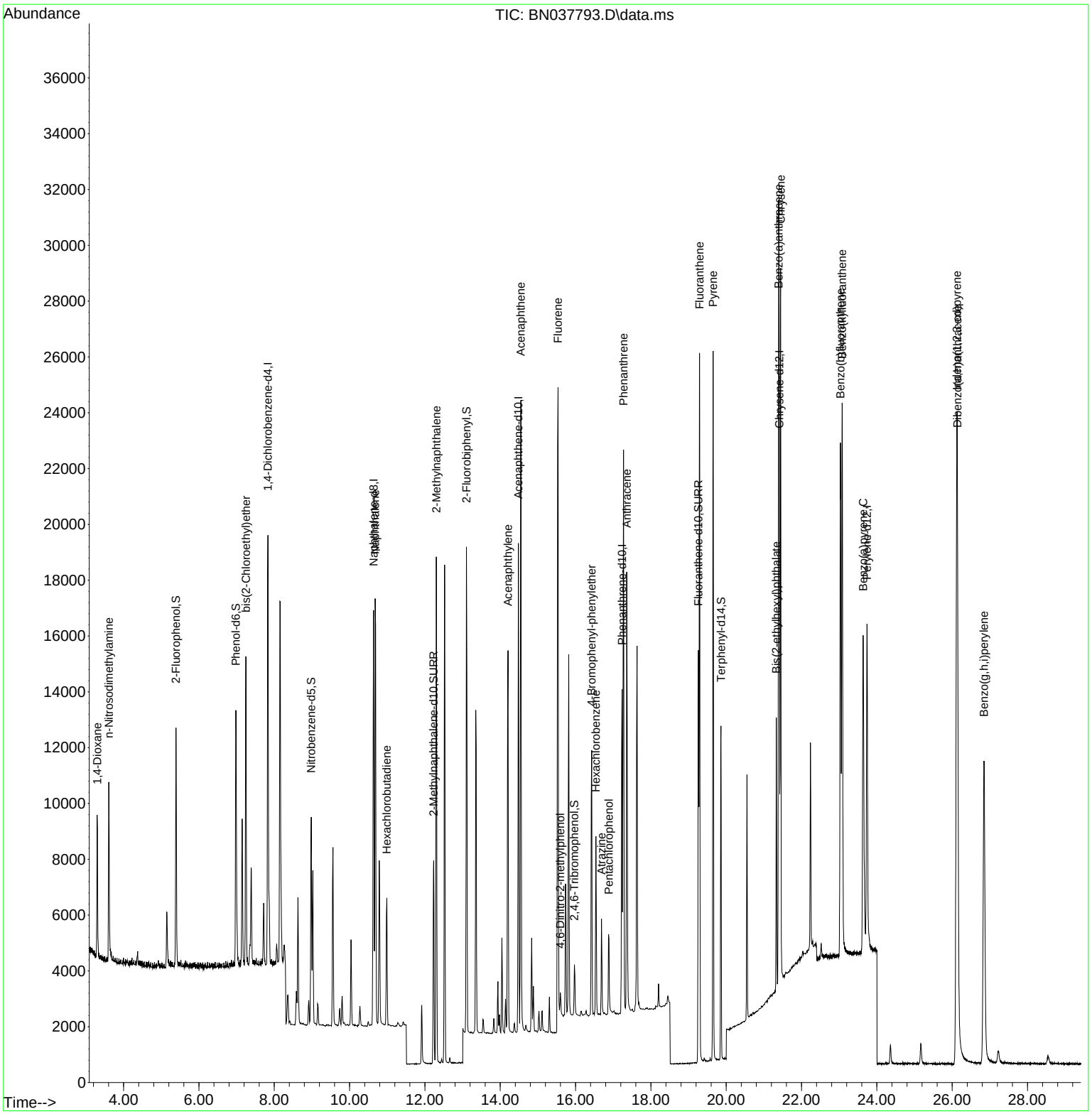
| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| Internal Standards | | | | | | | |
| 1) 1,4-Dichlorobenzene-d4 | 7.833 | 152 | 7441 | 0.400 | ng | | 0.00 |
| 7) Naphthalene-d8 | 10.637 | 136 | 19492 | 0.400 | ng | | -0.01 |
| 13) Acenaphthene-d10 | 14.484 | 164 | 9091 | 0.400 | ng | | -0.01 |
| 19) Phenanthrene-d10 | 17.235 | 188 | 16806 | 0.400 | ng | | # 0.00 |
| 29) Chrysene-d12 | 21.411 | 240 | 15128 | 0.400 | ng | | 0.00 |
| 35) Perylene-d12 | 23.739 | 264 | 15864 | 0.400 | ng | | #-0.01 |
| System Monitoring Compounds | | | | | | | |
| 4) 2-Fluorophenol | 5.392 | 112 | 6868 | 0.402 | ng | | 0.00 |
| 5) Phenol-d6 | 6.981 | 99 | 8539 | 0.386 | ng | | 0.00 |
| 8) Nitrobenzene-d5 | 8.982 | 82 | 5756 | 0.404 | ng | | -0.01 |
| 11) 2-Methylnaphthalene-d10 | 12.233 | 152 | 9662 | 0.374 | ng | | -0.01 |
| 14) 2,4,6-Tribromophenol | 15.969 | 330 | 1156 | 0.488 | ng | | -0.01 |
| 15) 2-Fluorobiphenyl | 13.105 | 172 | 14833 | 0.390 | ng | | -0.01 |
| 27) Fluoranthene-d10 | 19.262 | 212 | 16028 | 0.380 | ng | | 0.00 |
| 31) Terphenyl-d14 | 19.861 | 244 | 11883 | 0.387 | ng | | 0.00 |
| Target Compounds | | | | | | | Qvalue |
| 2) 1,4-Dioxane | 3.304 | 88 | 3241 | 0.418 | ng | | 98 |
| 3) n-Nitrosodimethylamine | 3.608 | 42 | 3766 | 0.372 | ng | | 88 |
| 6) bis(2-Chloroethyl)ether | 7.248 | 93 | 7648 | 0.386 | ng | | 100 |
| 9) Naphthalene | 10.680 | 128 | 20919 | 0.393 | ng | | 100 |
| 10) Hexachlorobutadiene | 10.989 | 225 | 3750 | 0.389 | ng | # | 100 |
| 12) 2-Methylnaphthalene | 12.304 | 142 | 12695 | 0.385 | ng | | 99 |
| 16) Acenaphthylene | 14.206 | 152 | 15704 | 0.377 | ng | | 99 |
| 17) Acenaphthene | 14.548 | 154 | 10816 | 0.384 | ng | | 98 |
| 18) Fluorene | 15.535 | 166 | 13166 | 0.386 | ng | | 98 |
| 20) 4,6-Dinitro-2-methylph... | 15.597 | 198 | 563 | 0.362 | ng | # | 81 |
| 21) 4-Bromophenyl-phenylether | 16.429 | 248 | 4194 | 0.383 | ng | # | 94 |
| 22) Hexachlorobenzene | 16.540 | 284 | 5004 | 0.397 | ng | | 98 |
| 23) Atrazine | 16.689 | 200 | 2701 | 0.387 | ng | | 95 |
| 24) Pentachlorophenol | 16.888 | 266 | 1719 | 0.470 | ng | | 99 |
| 25) Phenanthrene | 17.273 | 178 | 20559 | 0.389 | ng | | 100 |
| 26) Anthracene | 17.360 | 178 | 17722 | 0.378 | ng | | 100 |
| 28) Fluoranthene | 19.294 | 202 | 22839 | 0.394 | ng | | 100 |
| 30) Pyrene | 19.652 | 202 | 22743 | 0.384 | ng | | 100 |
| 32) Benzo(a)anthracene | 21.393 | 228 | 20290 | 0.385 | ng | | 100 |
| 33) Chrysene | 21.447 | 228 | 22567 | 0.399 | ng | | 100 |
| 34) Bis(2-ethylhexyl)phtha... | 21.331 | 149 | 8520 | 0.545 | ng | | 99 |
| 36) Indeno(1,2,3-cd)pyrene | 26.124 | 276 | 31159 | 0.467 | ng | | 99 |
| 37) Benzo(b)fluoranthene | 23.034 | 252 | 24537 | 0.393 | ng | | 99 |
| 38) Benzo(k)fluoranthene | 23.078 | 252 | 26227 | 0.412 | ng | | 99 |
| 39) Benzo(a)pyrene | 23.636 | 252 | 19199 | 0.384 | ng | | 98 |
| 40) Dibenzo(a,h)anthracene | 26.139 | 278 | 24445 | 0.459 | ng | | 98 |
| 41) Benzo(g,h,i)perylene | 26.846 | 276 | 24646 | 0.413 | ng | | 97 |

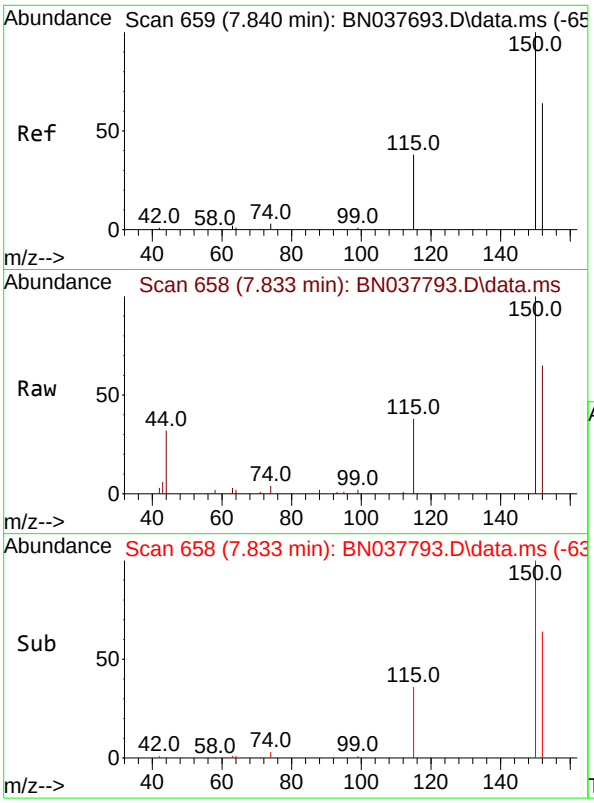
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN091825\
Data File : BN037793.D
Acq On : 19 Sep 2025 00:52
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 19 Sample Multiplier: 1

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4EC

Quant Time: Sep 19 04:13:20 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN091125.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Sep 11 14:20:01 2025
Response via : Initial Calibration



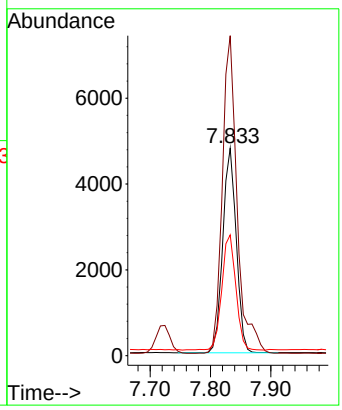


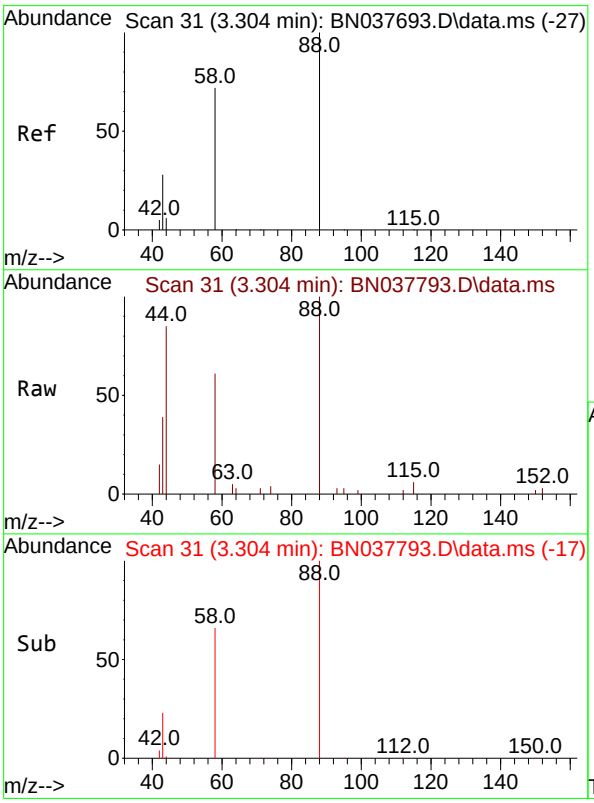

#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.833 min Scan# 6
Delta R.T. -0.007 min
Lab File: BN037793.D
Acq: 19 Sep 2025 00:52

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4EC

Tgt Ion:152 Resp: 7441

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 150 | 154.3 | 124.5 | 186.7 |
| 115 | 58.3 | 49.2 | 73.8 |

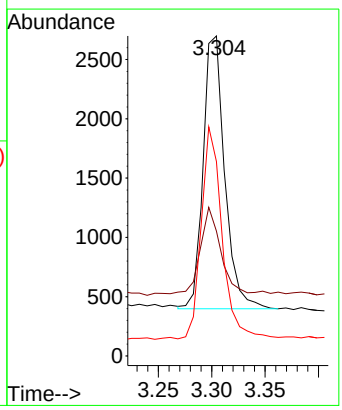


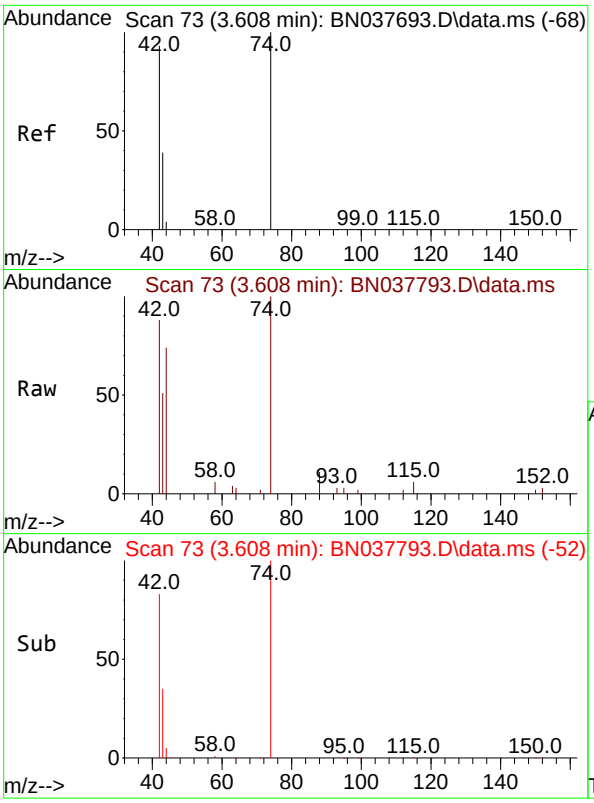




#2
1,4-Dioxane
Concen: 0.418 ng
RT: 3.304 min Scan# 31
Delta R.T. -0.000 min
Lab File: BN037793.D
Acq: 19 Sep 2025 00:52

Tgt Ion: 88 Resp: 3241

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 88 | 100 | | |
| 43 | 31.9 | 26.8 | 40.2 |
| 58 | 76.1 | 61.9 | 92.9 |



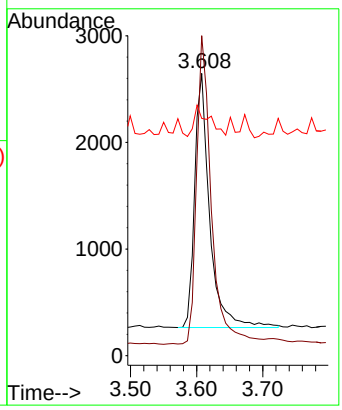


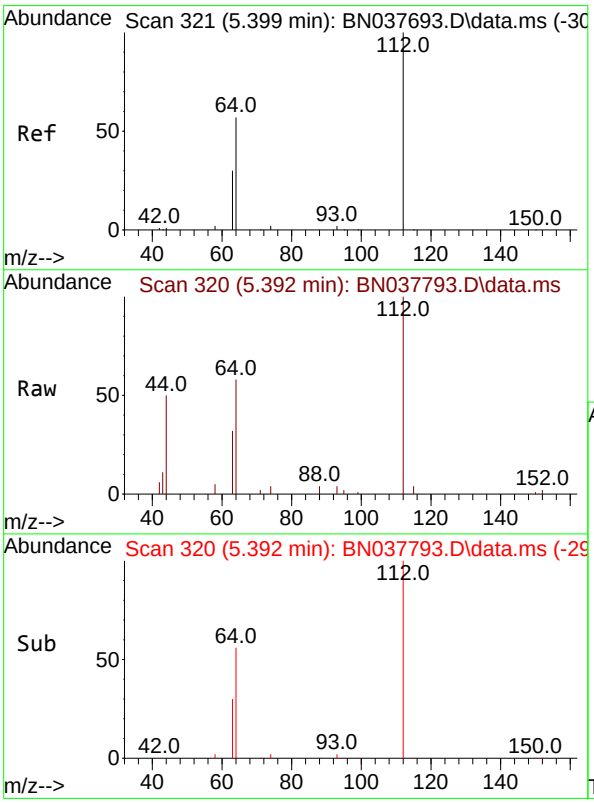

#3
n-Nitrosodimethylamine
Concen: 0.372 ng
RT: 3.608 min Scan# 7
Delta R.T. -0.000 min
Lab File: BN037793.D
Acq: 19 Sep 2025 00:52

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4EC

Tgt Ion: 42 Resp: 3766

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 42 | 100 | | |
| 74 | 120.8 | 86.0 | 129.0 |
| 44 | 12.6 | 8.4 | 12.6 |

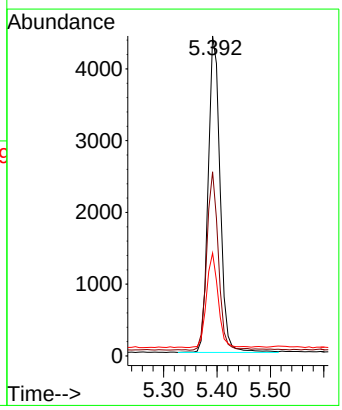


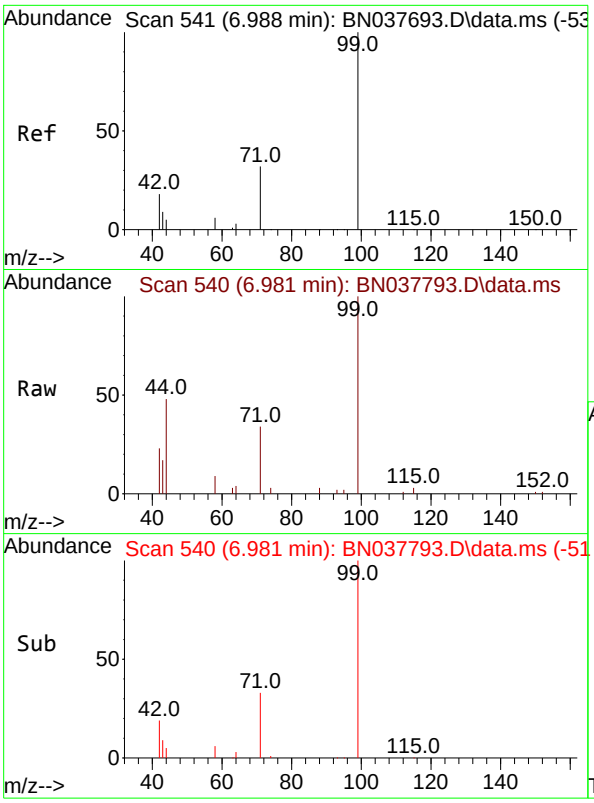




#4
2-Fluorophenol
Concen: 0.402 ng
RT: 5.392 min Scan# 320
Delta R.T. -0.007 min
Lab File: BN037793.D
Acq: 19 Sep 2025 00:52

Tgt Ion:112 Resp: 6868

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 112 | 100 | | |
| 64 | 55.9 | 44.9 | 67.3 |
| 63 | 29.2 | 24.7 | 37.1 |



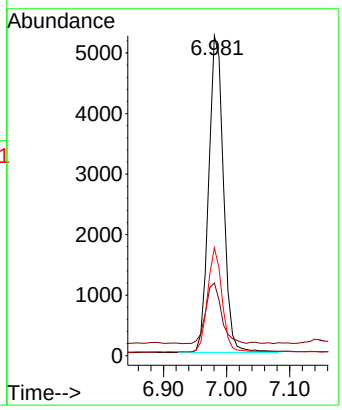


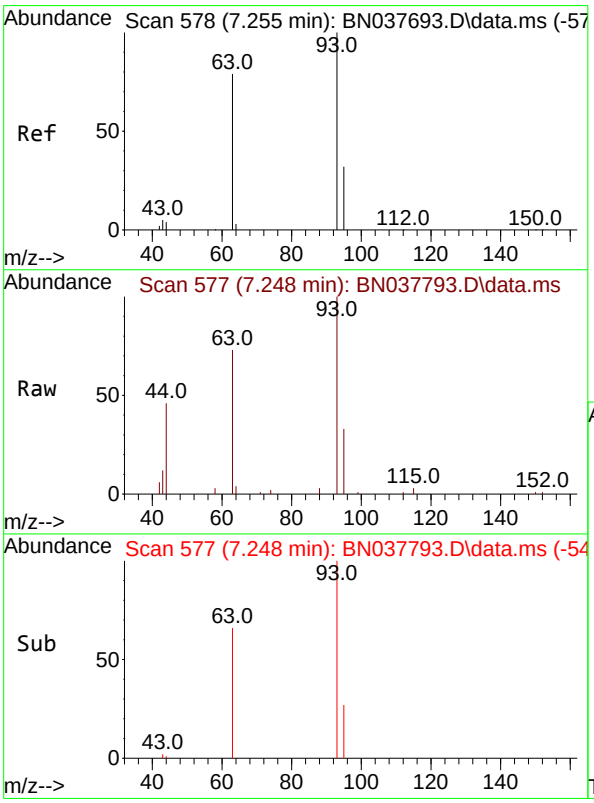

#5
Phenol-d6
Concen: 0.386 ng
RT: 6.981 min Scan# 54
Delta R.T. -0.007 min
Lab File: BN037793.D
Acq: 19 Sep 2025 00:52

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4EC

Tgt Ion: 99 Resp: 8539

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 99 | 100 | | |
| 42 | 20.3 | 16.6 | 24.8 |
| 71 | 32.6 | 26.7 | 40.1 |

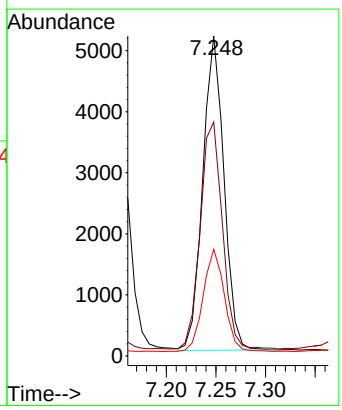


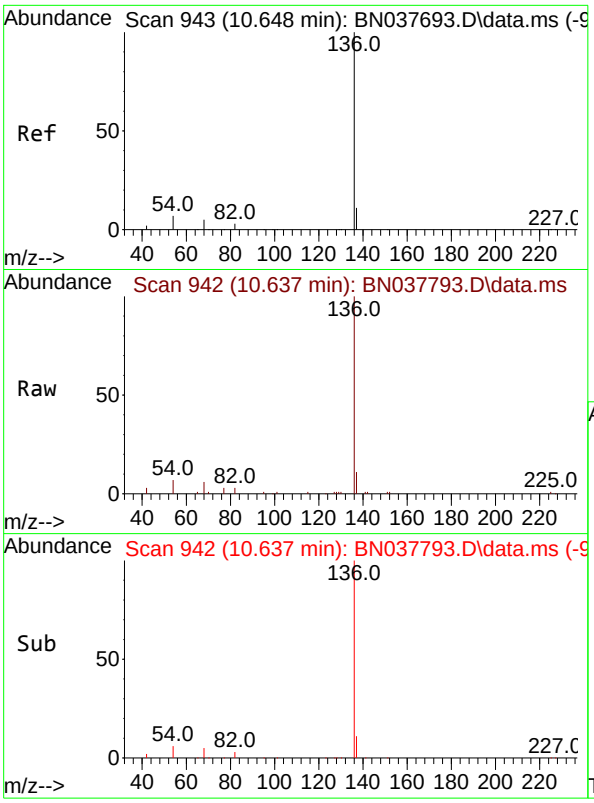




#6
bis(2-Chloroethyl)ether
Concen: 0.386 ng
RT: 7.248 min Scan# 577
Delta R.T. -0.007 min
Lab File: BN037793.D
Acq: 19 Sep 2025 00:52

Tgt Ion: 93 Resp: 7648

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 93 | 100 | | |
| 63 | 75.3 | 60.6 | 90.8 |
| 95 | 32.6 | 26.0 | 39.0 |



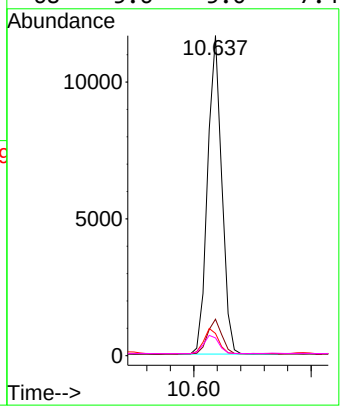


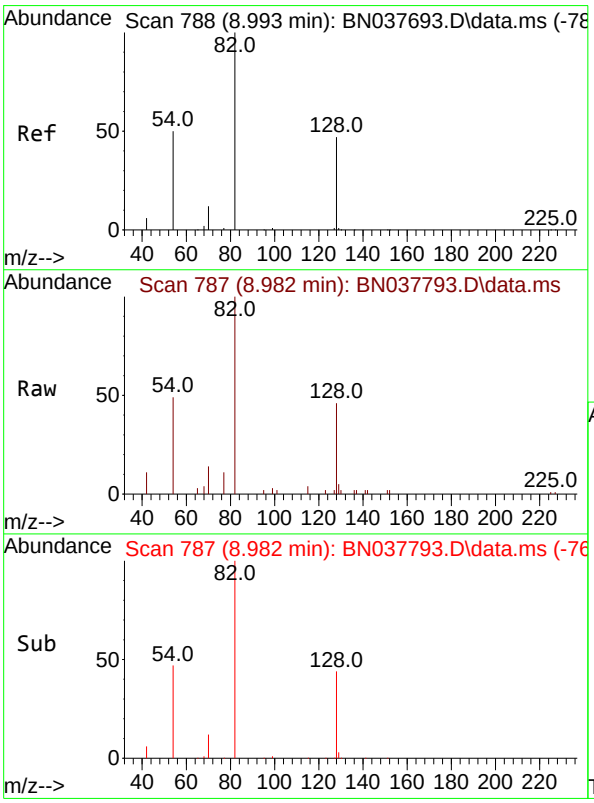

#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.637 min Scan# 94
Delta R.T. -0.011 min
Lab File: BN037793.D
Acq: 19 Sep 2025 00:52

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4EC

Tgt Ion:136 Resp: 19492

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 136 | 100 | | |
| 137 | 11.4 | 9.1 | 13.7 |
| 54 | 6.9 | 6.3 | 9.5 |
| 68 | 5.6 | 5.0 | 7.4 |

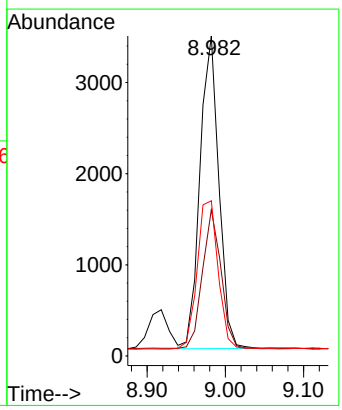


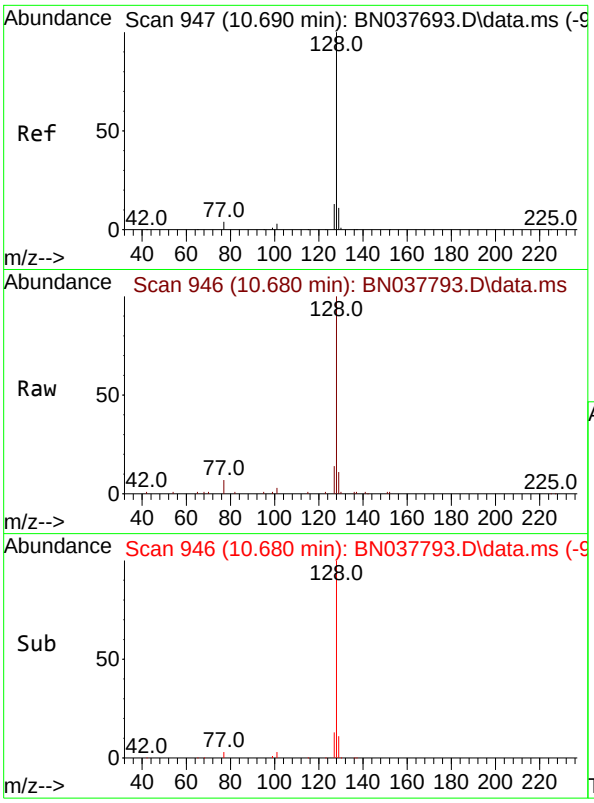




#8
Nitrobenzene-d5
Concen: 0.404 ng
RT: 8.982 min Scan# 787
Delta R.T. -0.011 min
Lab File: BN037793.D
Acq: 19 Sep 2025 00:52

Tgt Ion: 82 Resp: 5756

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 82 | 100 | | |
| 128 | 45.7 | 38.3 | 57.5 |
| 54 | 48.5 | 41.4 | 62.2 |



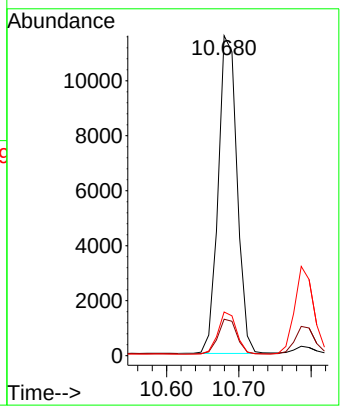


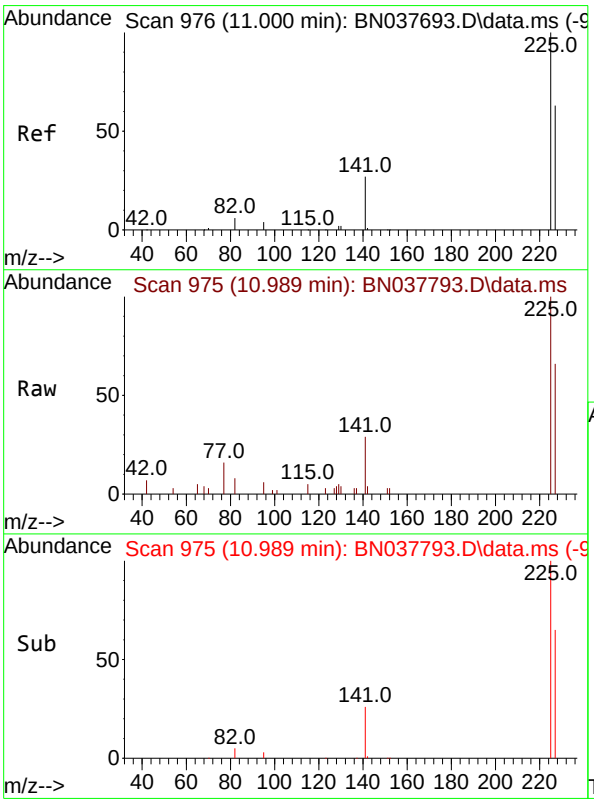

#9
Naphthalene
Concen: 0.393 ng
RT: 10.680 min Scan# 94
Delta R.T. -0.011 min
Lab File: BN037793.D
Acq: 19 Sep 2025 00:52

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4EC

Tgt Ion:128 Resp: 20919

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 128 | 100 | | |
| 129 | 11.4 | 9.1 | 13.7 |
| 127 | 13.7 | 10.9 | 16.3 |

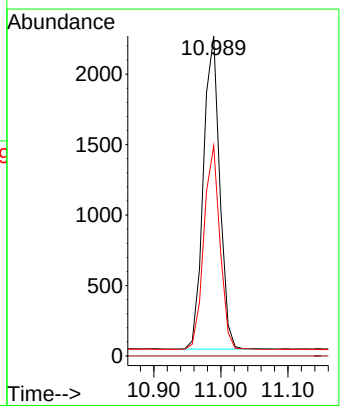


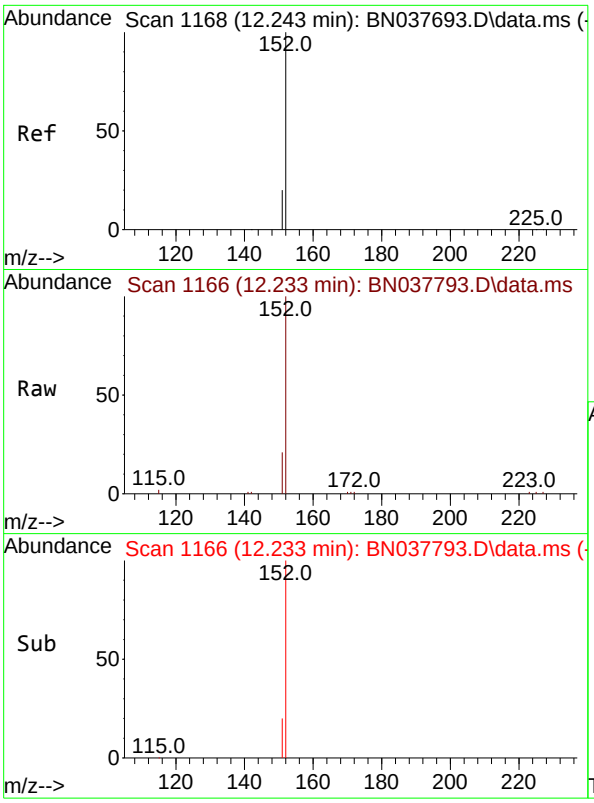




#10
Hexachlorobutadiene
Concen: 0.389 ng
RT: 10.989 min Scan# 975
Delta R.T. -0.011 min
Lab File: BN037793.D
Acq: 19 Sep 2025 00:52

Tgt Ion:225 Resp: 3750

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 225 | 100 | | |
| 223 | 0.0 | 0.0 | 0.0 |
| 227 | 63.9 | 50.9 | 76.3 |



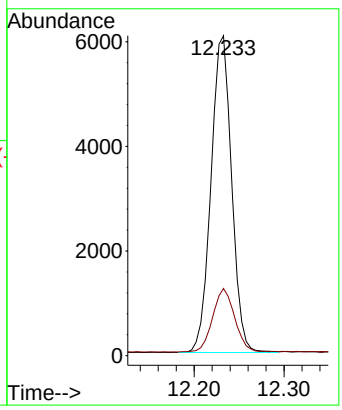


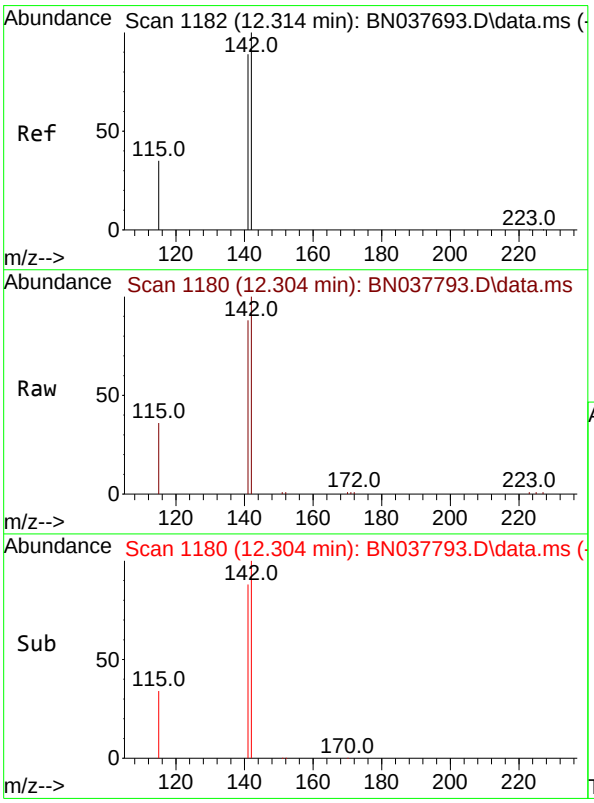

#11
2-Methylnaphthalene-d10
Concen: 0.374 ng
RT: 12.233 min Scan# 11
Delta R.T. -0.010 min
Lab File: BN037793.D
Acq: 19 Sep 2025 00:52

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4EC

Tgt Ion:152 Resp: 9662

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 151 | 21.4 | 17.0 | 25.6 |

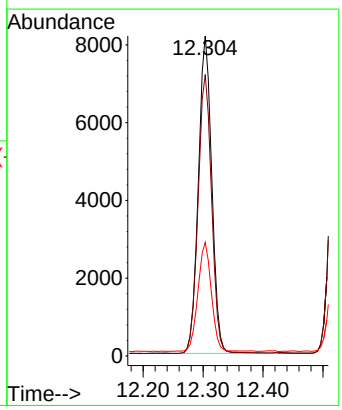


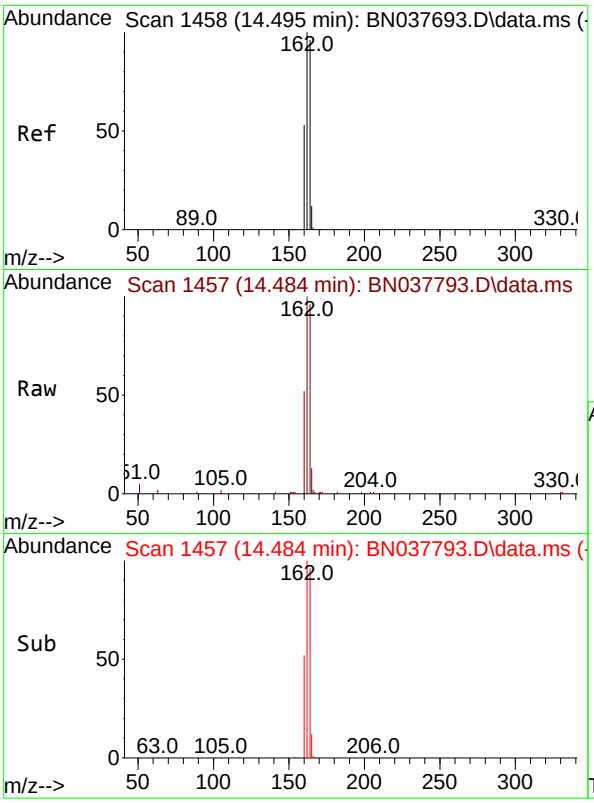




#12
2-Methylnaphthalene
Concen: 0.385 ng
RT: 12.304 min Scan# 1180
Delta R.T. -0.010 min
Lab File: BN037793.D
Acq: 19 Sep 2025 00:52

Tgt Ion:142 Resp: 12695

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 142 | 100 | | |
| 141 | 87.9 | 71.6 | 107.4 |
| 115 | 35.5 | 28.6 | 43.0 |



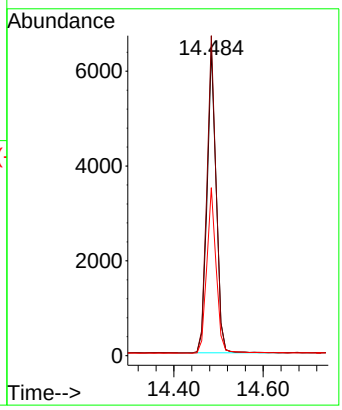


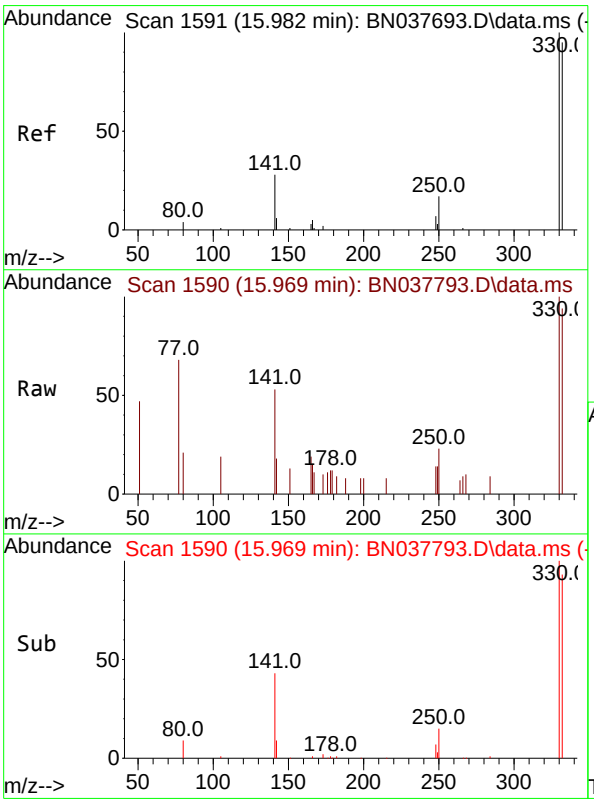

#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.484 min Scan# 14
Delta R.T. -0.011 min
Lab File: BN037793.D
Acq: 19 Sep 2025 00:52

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4EC

Tgt Ion:164 Resp: 9091

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 164 | 100 | | |
| 162 | 104.3 | 83.1 | 124.7 |
| 160 | 54.7 | 44.3 | 66.5 |

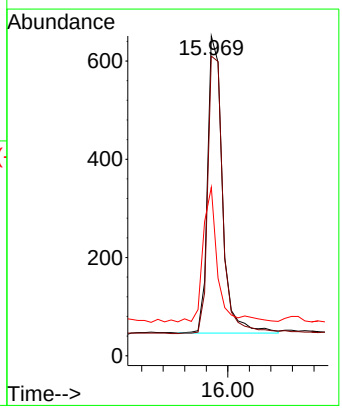


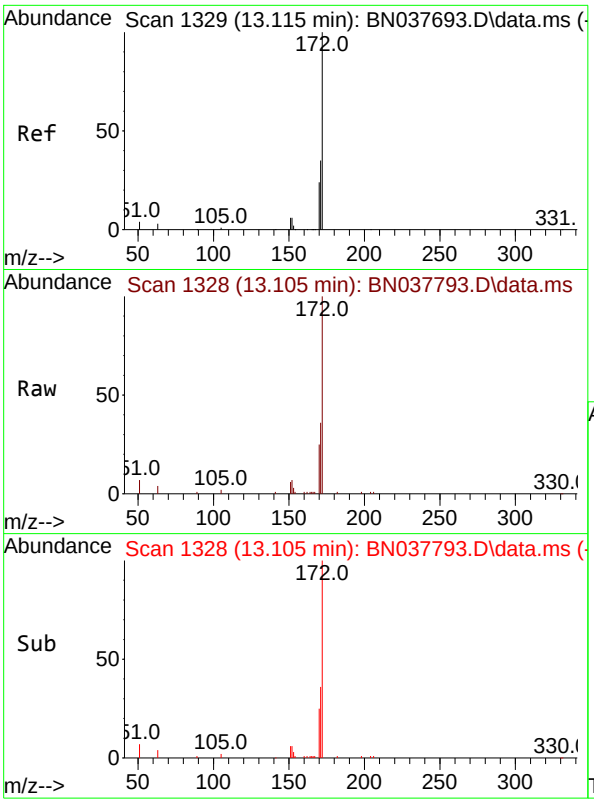




#14
2,4,6-Tribromophenol
Concen: 0.488 ng
RT: 15.969 min Scan# 1590
Delta R.T. -0.013 min
Lab File: BN037793.D
Acq: 19 Sep 2025 00:52

Tgt Ion:330 Resp: 1156

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 330 | 100 | | |
| 332 | 96.0 | 75.3 | 112.9 |
| 141 | 44.0 | 35.0 | 52.4 |



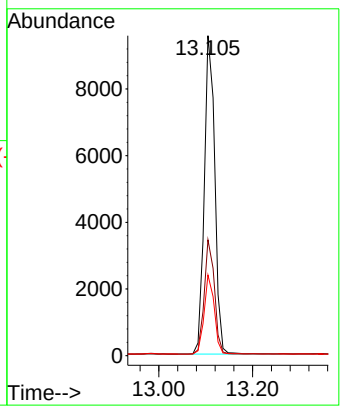


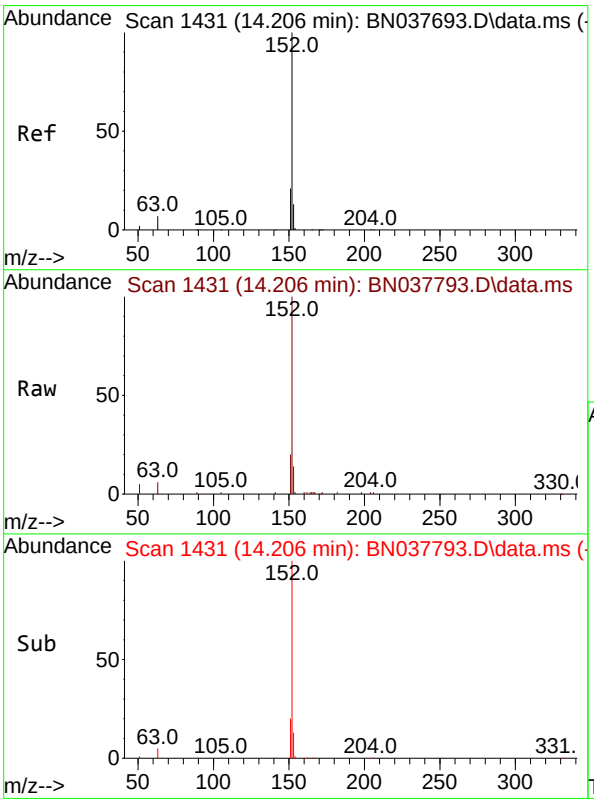

#15
2-Fluorobiphenyl
Concen: 0.390 ng
RT: 13.105 min Scan# 1
Delta R.T. -0.011 min
Lab File: BN037793.D
Acq: 19 Sep 2025 00:52

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4EC

Tgt Ion:172 Resp: 14833

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 172 | 100 | | |
| 171 | 36.2 | 28.6 | 43.0 |
| 170 | 25.2 | 19.8 | 29.8 |

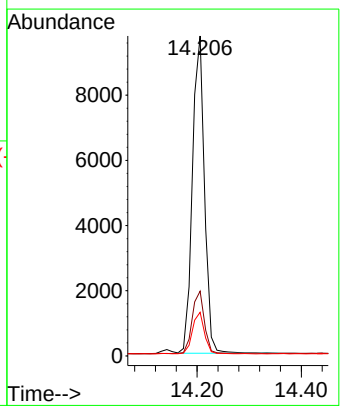


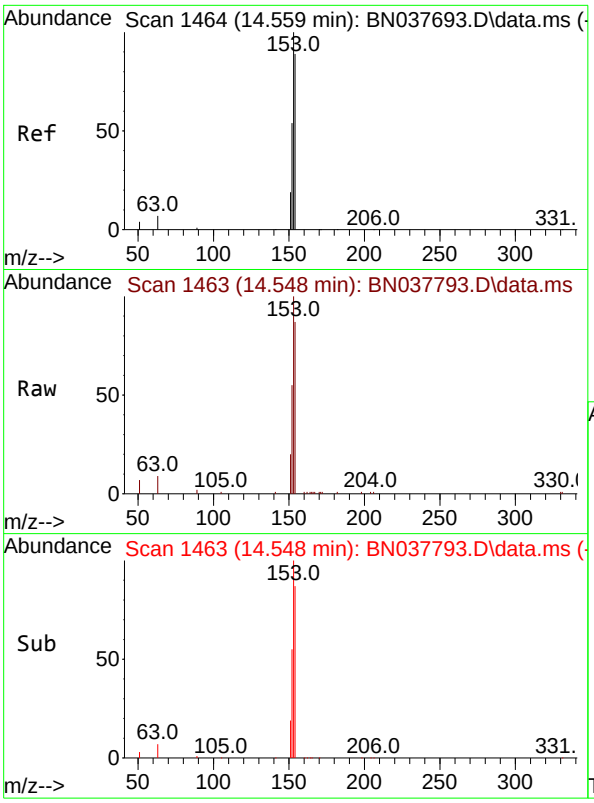




#16
Acenaphthylene
Concen: 0.377 ng
RT: 14.206 min Scan# 1431
Delta R.T. -0.000 min
Lab File: BN037793.D
Acq: 19 Sep 2025 00:52

Tgt Ion:152 Resp: 15704

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 151 | 19.7 | 16.2 | 24.2 |
| 153 | 13.2 | 10.4 | 15.6 |



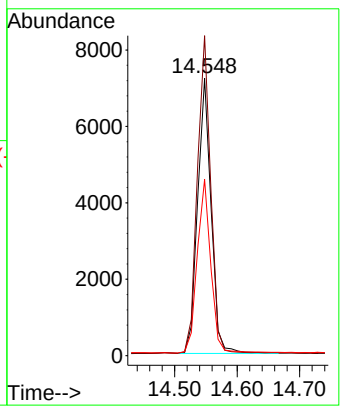


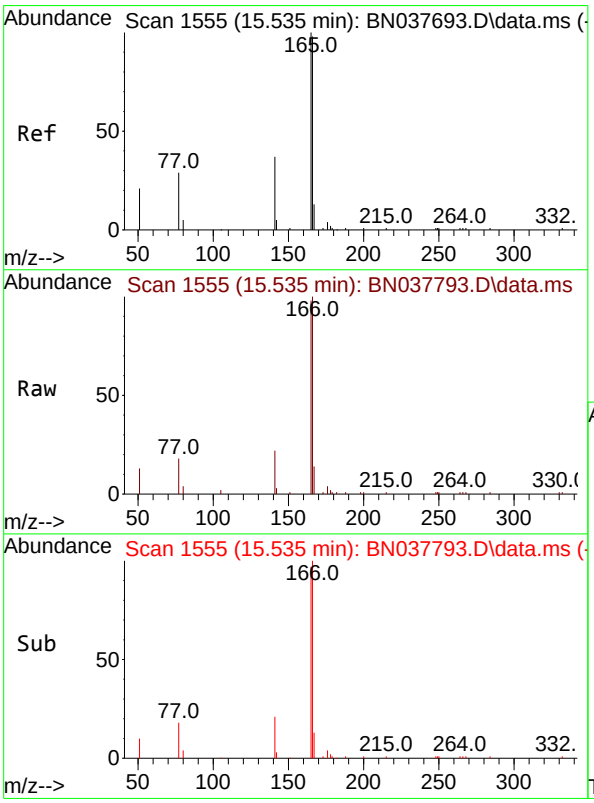

#17
Acenaphthene
Concen: 0.384 ng
RT: 14.548 min Scan# 14
Delta R.T. -0.011 min
Lab File: BN037793.D
Acq: 19 Sep 2025 00:52

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4EC

Tgt Ion:154 Resp: 10816

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 154 | 100 | | |
| 153 | 114.7 | 89.8 | 134.8 |
| 152 | 63.7 | 50.2 | 75.2 |

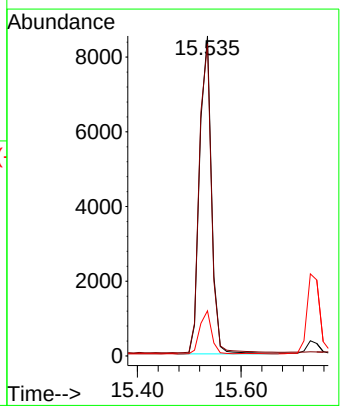


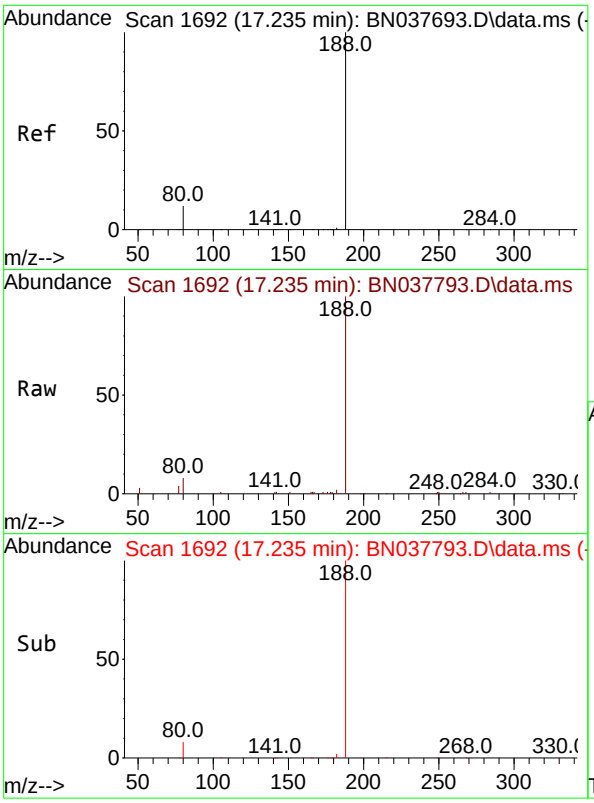




#18
Fluorene
Concen: 0.386 ng
RT: 15.535 min Scan# 1555
Delta R.T. -0.000 min
Lab File: BN037793.D
Acq: 19 Sep 2025 00:52

Tgt Ion:166 Resp: 13166

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 166 | 100 | | |
| 165 | 97.1 | 79.6 | 119.4 |
| 167 | 13.2 | 10.6 | 16.0 |



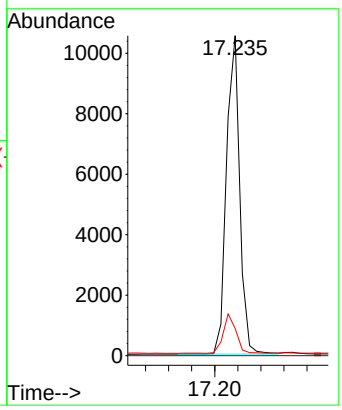


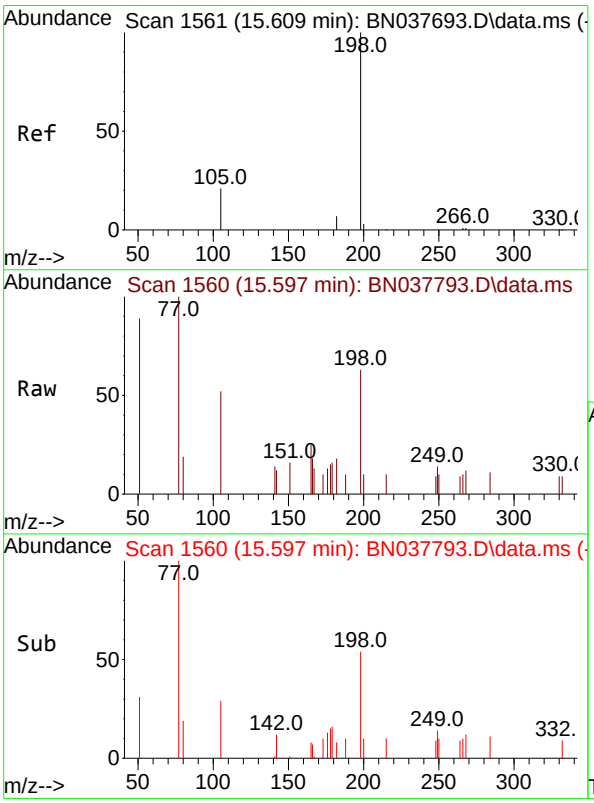

#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.235 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN037793.D
Acq: 19 Sep 2025 00:52

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4EC

Tgt Ion:188 Resp: 16806

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 188 | 100 | | |
| 94 | 0.0 | 0.0 | 0.0 |
| 80 | 8.5 | 10.6 | 15.8# |

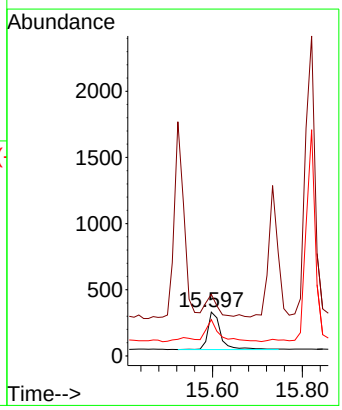


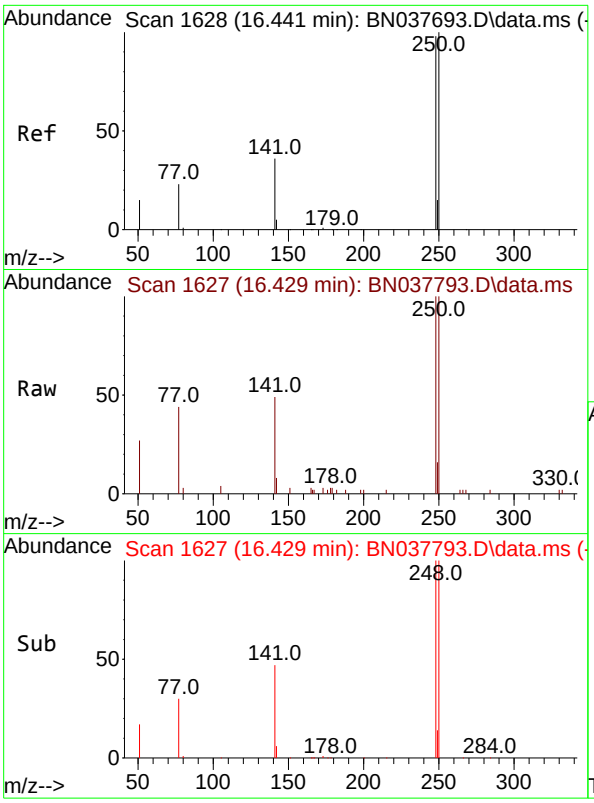




#20
4,6-Dinitro-2-methylphenol
Concen: 0.362 ng
RT: 15.597 min Scan# 1560
Delta R.T. -0.012 min
Lab File: BN037793.D
Acq: 19 Sep 2025 00:52

Tgt Ion:198 Resp: 563

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 198 | 100 | | |
| 51 | 140.5 | 95.1 | 142.7 |
| 105 | 82.8 | 53.8 | 80.6# |



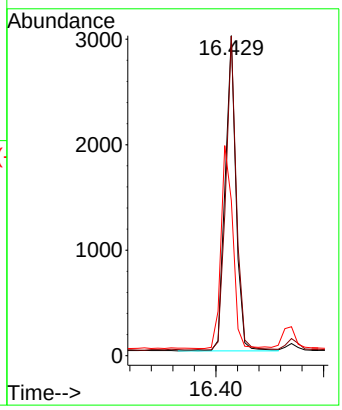


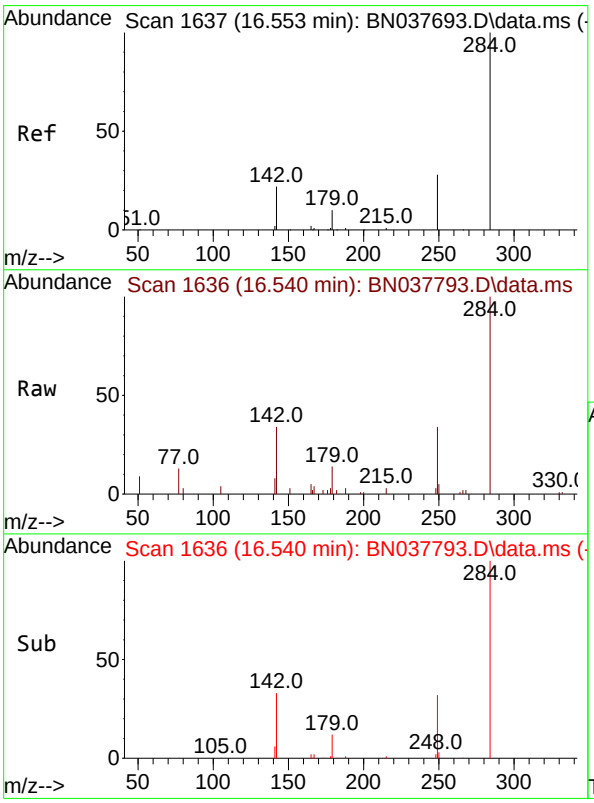

#21
4-Bromophenyl-phenylether
Concen: 0.383 ng
RT: 16.429 min Scan# 1
Delta R.T. -0.012 min
Lab File: BN037793.D
Acq: 19 Sep 2025 00:52

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4EC

Tgt Ion:248 Resp: 4194

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 248 | 100 | | |
| 250 | 99.9 | 81.5 | 122.3 |
| 141 | 48.5 | 30.8 | 46.2# |

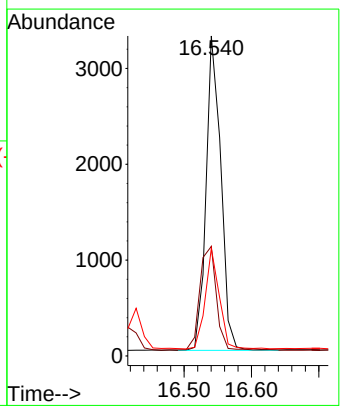


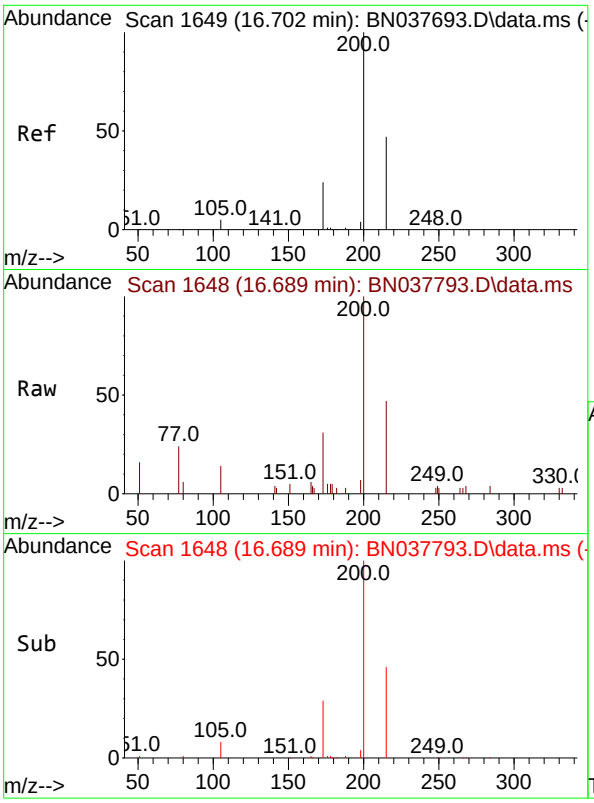




#22
Hexachlorobenzene
Concen: 0.397 ng
RT: 16.540 min Scan# 1636
Delta R.T. -0.012 min
Lab File: BN037793.D
Acq: 19 Sep 2025 00:52

Tgt Ion:284 Resp: 5004

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 284 | 100 | | |
| 142 | 37.2 | 30.9 | 46.3 |
| 249 | 30.4 | 24.8 | 37.2 |



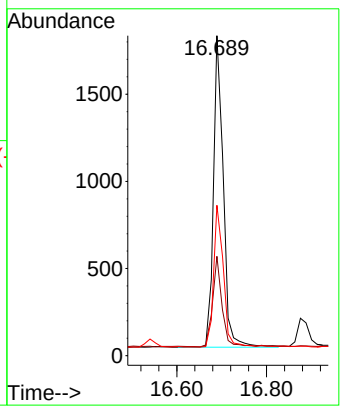


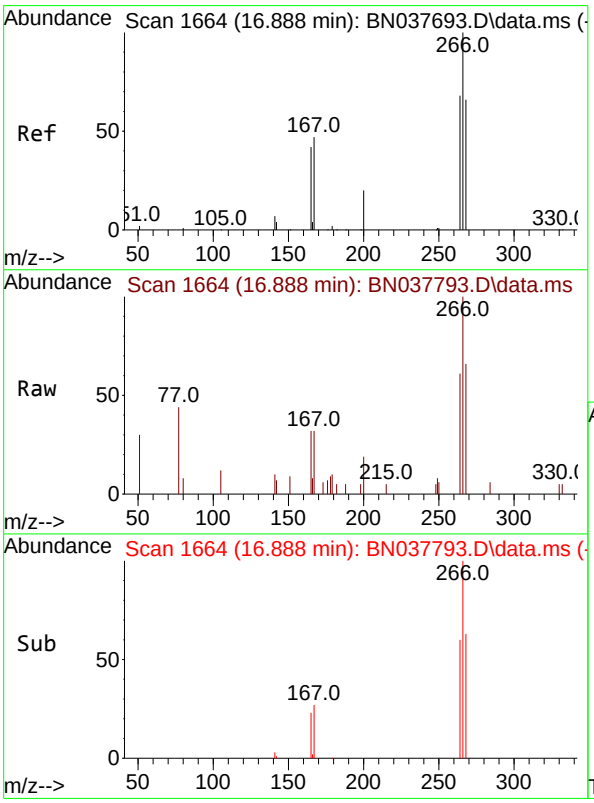

#23
Atrazine
Concen: 0.387 ng
RT: 16.689 min Scan# 1
Delta R.T. -0.012 min
Lab File: BN037793.D
Acq: 19 Sep 2025 00:52

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4EC

Tgt Ion:200 Resp: 2701

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 200 | 100 | | |
| 173 | 31.0 | 21.4 | 32.2 |
| 215 | 47.0 | 39.2 | 58.8 |

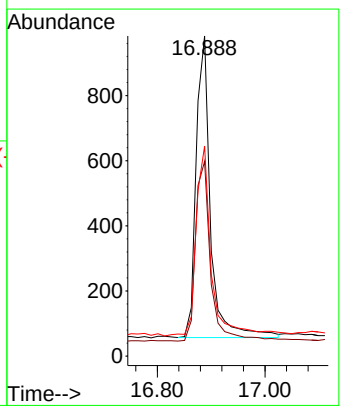


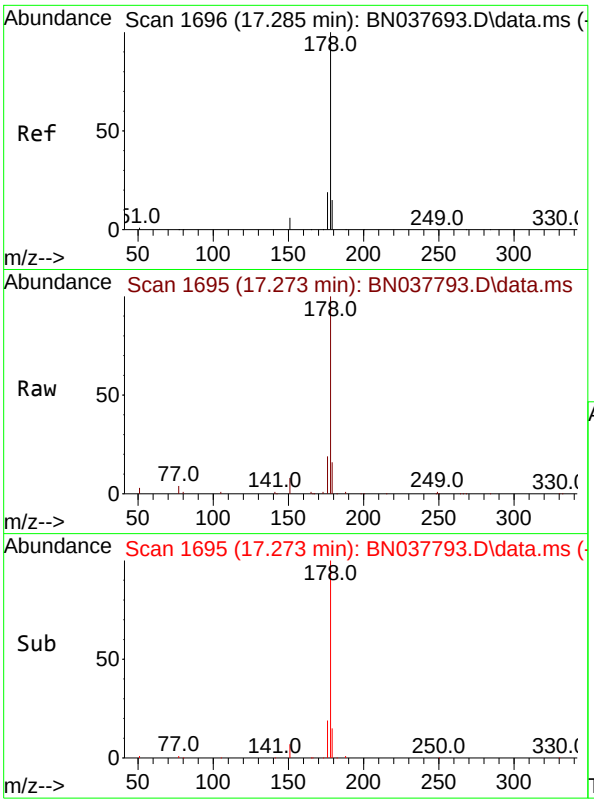




#24
Pentachlorophenol
Concen: 0.470 ng
RT: 16.888 min Scan# 1664
Delta R.T. -0.000 min
Lab File: BN037793.D
Acq: 19 Sep 2025 00:52

Tgt Ion:266 Resp: 1719

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 266 | 100 | | |
| 264 | 62.7 | 51.6 | 77.4 |
| 268 | 67.0 | 53.2 | 79.8 |



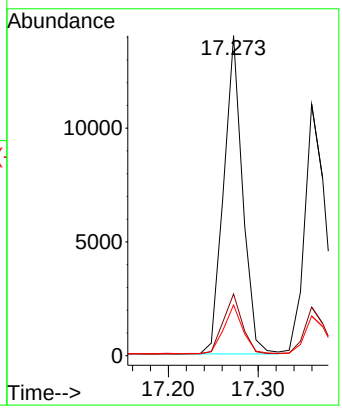


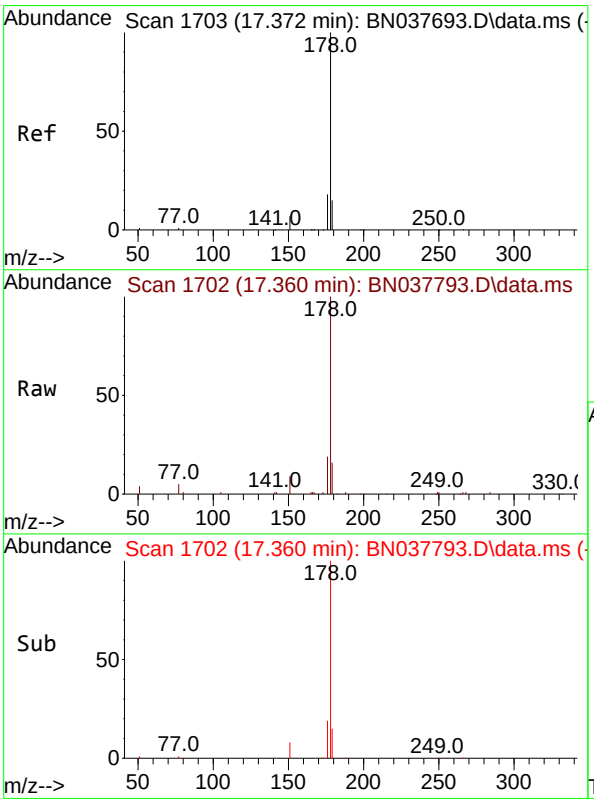

#25
Phenanthrene
Concen: 0.389 ng
RT: 17.273 min Scan# 1
Delta R.T. -0.012 min
Lab File: BN037793.D
Acq: 19 Sep 2025 00:52

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4EC

Tgt Ion:178 Resp: 20559

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 178 | 100 | | |
| 176 | 19.1 | 15.3 | 22.9 |
| 179 | 15.4 | 12.2 | 18.2 |

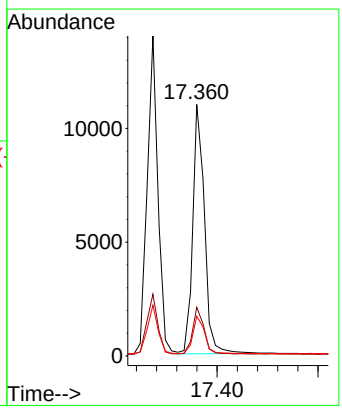


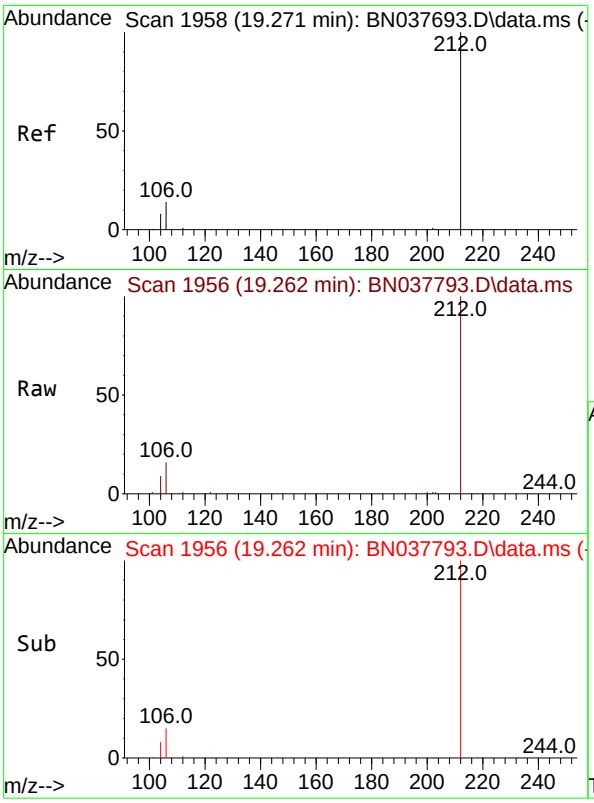




#26
Anthracene
Concen: 0.378 ng
RT: 17.360 min Scan# 1702
Delta R.T. -0.012 min
Lab File: BN037793.D
Acq: 19 Sep 2025 00:52

Tgt Ion:178 Resp: 17722

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 178 | 100 | | |
| 176 | 18.3 | 14.6 | 22.0 |
| 179 | 15.2 | 12.2 | 18.4 |



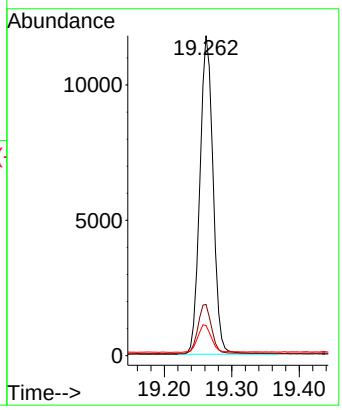


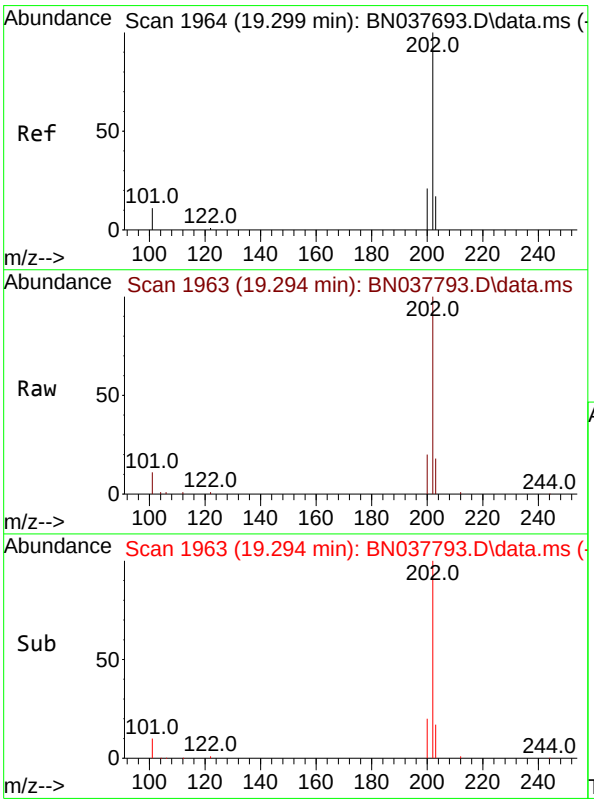

#27
Fluoranthene-d10
Concen: 0.380 ng
RT: 19.262 min Scan# 1
Delta R.T. -0.009 min
Lab File: BN037793.D
Acq: 19 Sep 2025 00:52

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4EC

Tgt Ion:212 Resp: 16028

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 212 | 100 | | |
| 106 | 15.6 | 12.2 | 18.2 |
| 104 | 9.0 | 6.9 | 10.3 |

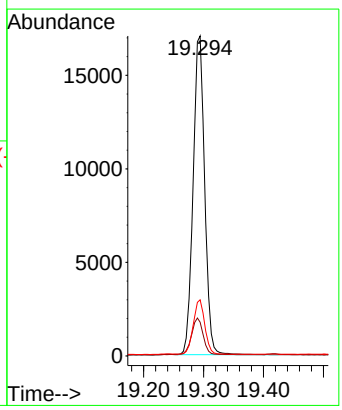


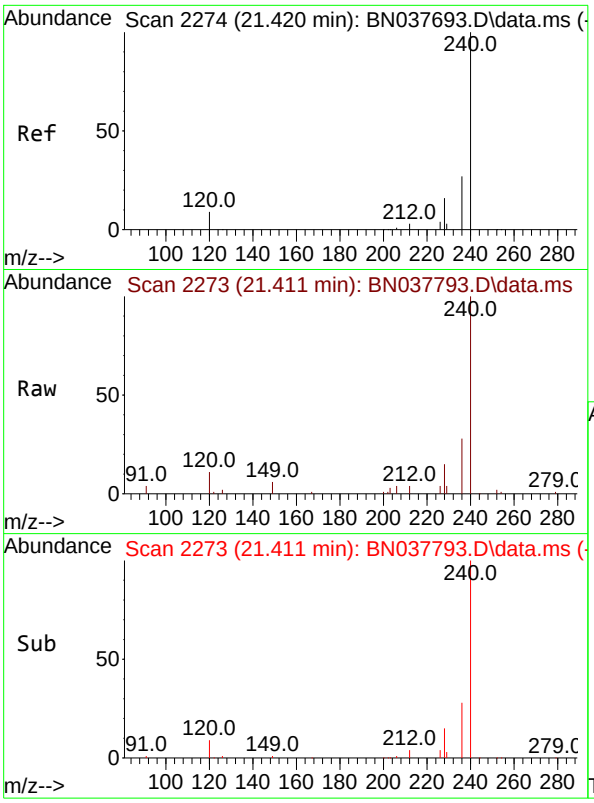




#28
Fluoranthene
Concen: 0.394 ng
RT: 19.294 min Scan# 1963
Delta R.T. -0.005 min
Lab File: BN037793.D
Acq: 19 Sep 2025 00:52

Tgt Ion:202 Resp: 22839

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 202 | 100 | | |
| 101 | 11.7 | 9.3 | 13.9 |
| 203 | 16.9 | 13.7 | 20.5 |



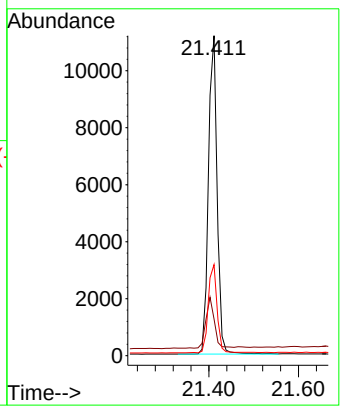


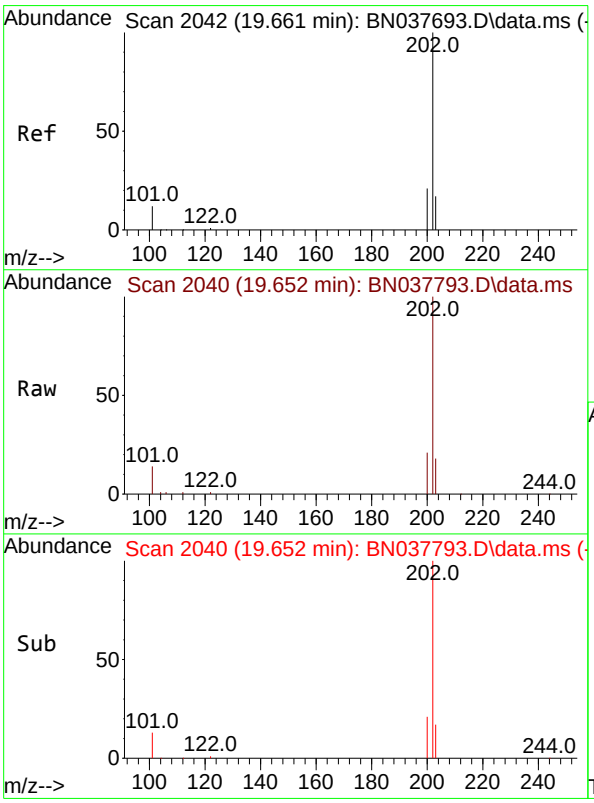

#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.411 min Scan# 2
Delta R.T. -0.009 min
Lab File: BN037793.D
Acq: 19 Sep 2025 00:52

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4EC

Tgt Ion:240 Resp: 15128

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 240 | 100 | | |
| 120 | 11.5 | 9.2 | 13.8 |
| 236 | 28.5 | 22.6 | 33.8 |

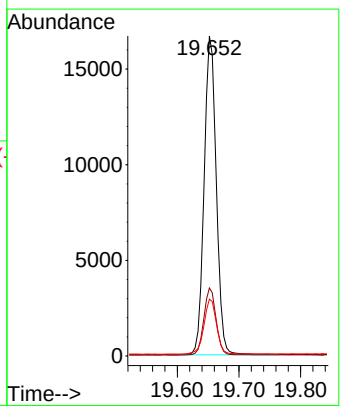


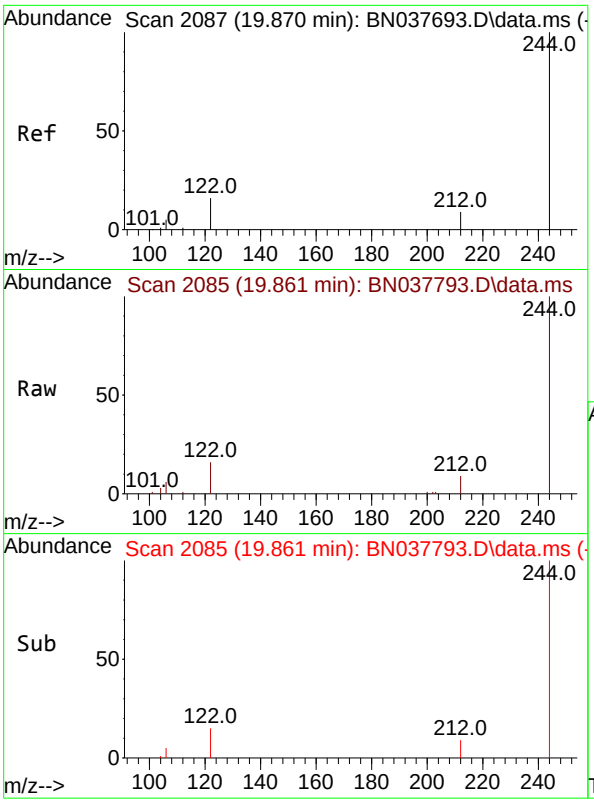




#30
Pyrene
Concen: 0.384 ng
RT: 19.652 min Scan# 2040
Delta R.T. -0.009 min
Lab File: BN037793.D
Acq: 19 Sep 2025 00:52

Tgt Ion:202 Resp: 22743

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 202 | 100 | | |
| 200 | 21.1 | 16.8 | 25.2 |
| 203 | 18.0 | 14.3 | 21.5 |



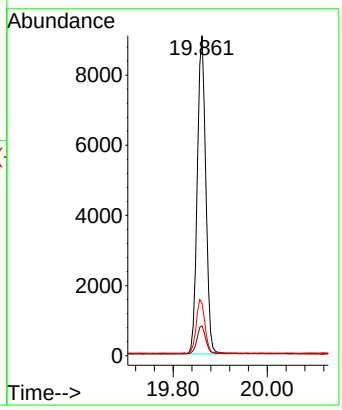


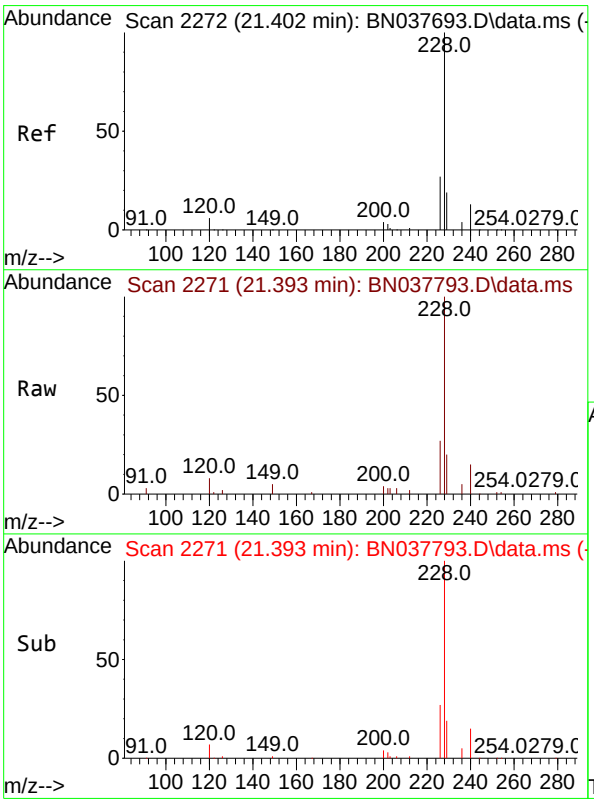

#31
Terphenyl-d14
Concen: 0.387 ng
RT: 19.861 min Scan# 2
Delta R.T. -0.009 min
Lab File: BN037793.D
Acq: 19 Sep 2025 00:52

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4EC

Tgt Ion:244 Resp: 11883

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 244 | 100 | | |
| 212 | 9.3 | 7.5 | 11.3 |
| 122 | 16.4 | 13.2 | 19.8 |

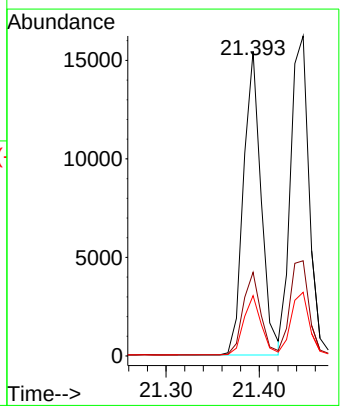


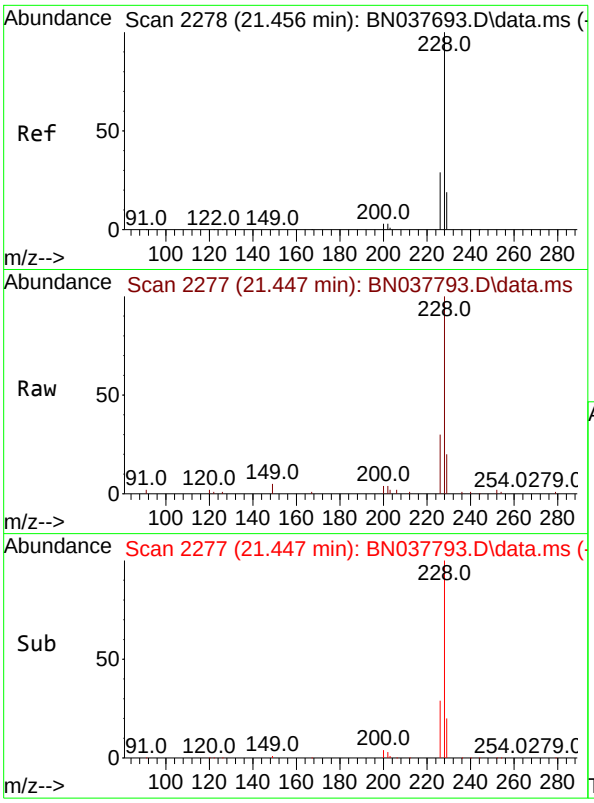




#32
Benzo(a)anthracene
Concen: 0.385 ng
RT: 21.393 min Scan# 2271
Delta R.T. -0.009 min
Lab File: BN037793.D
Acq: 19 Sep 2025 00:52

Tgt Ion:228 Resp: 20290

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 228 | 100 | | |
| 226 | 27.5 | 22.2 | 33.2 |
| 229 | 19.8 | 15.8 | 23.6 |



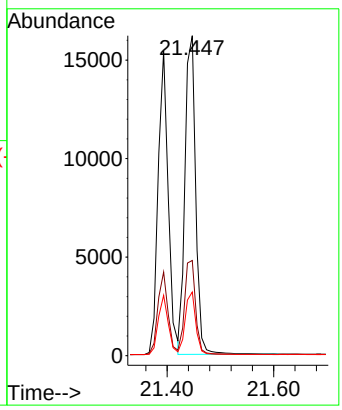


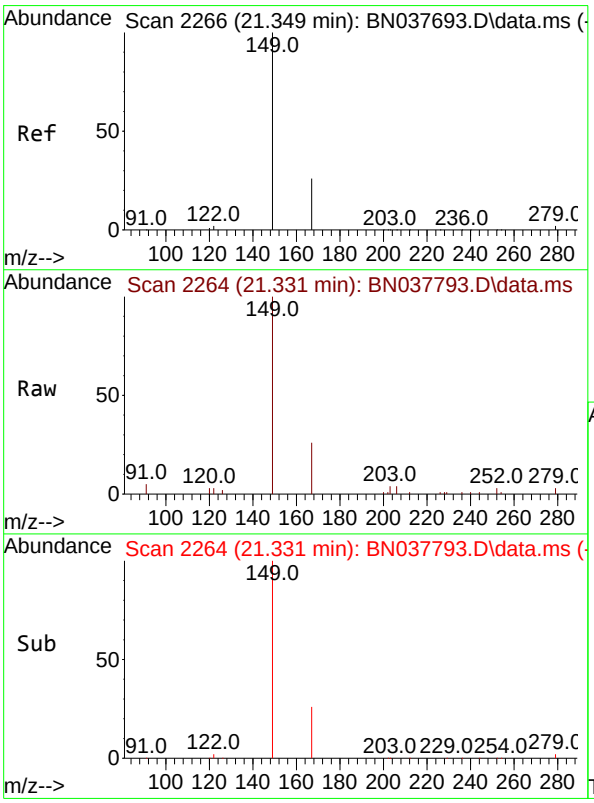

#33
Chrysene
Concen: 0.399 ng
RT: 21.447 min Scan# 2
Delta R.T. -0.009 min
Lab File: BN037793.D
Acq: 19 Sep 2025 00:52

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4EC

Tgt Ion:228 Resp: 22567

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 228 | 100 | | |
| 226 | 29.7 | 23.5 | 35.3 |
| 229 | 19.9 | 15.9 | 23.9 |

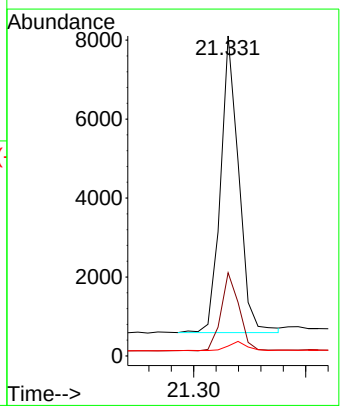


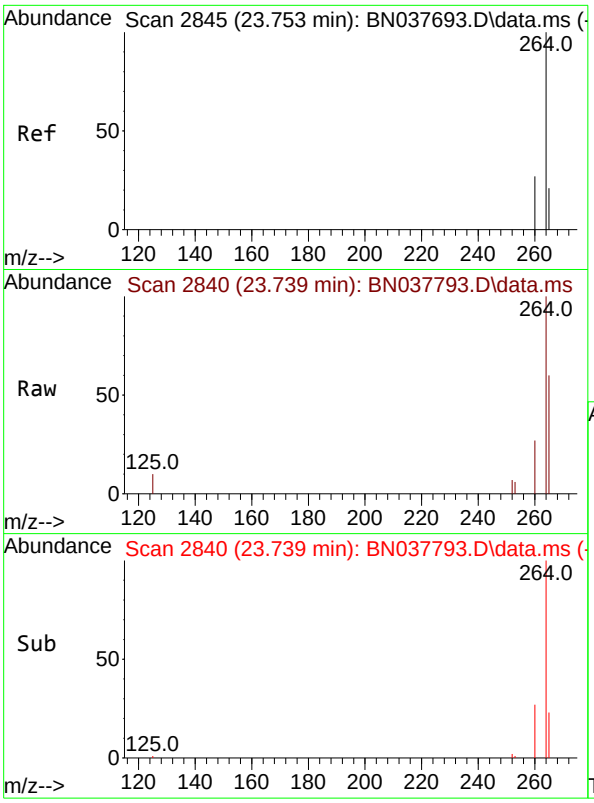




#34
Bis(2-ethylhexyl)phthalate
Concen: 0.545 ng
RT: 21.331 min Scan# 2264
Delta R.T. -0.018 min
Lab File: BN037793.D
Acq: 19 Sep 2025 00:52

Tgt Ion:149 Resp: 8520

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 149 | 100 | | |
| 167 | 25.7 | 20.8 | 31.2 |
| 279 | 3.3 | 3.3 | 4.9 |



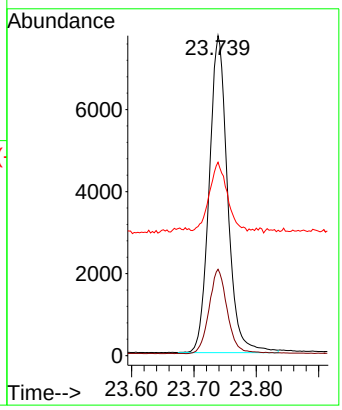


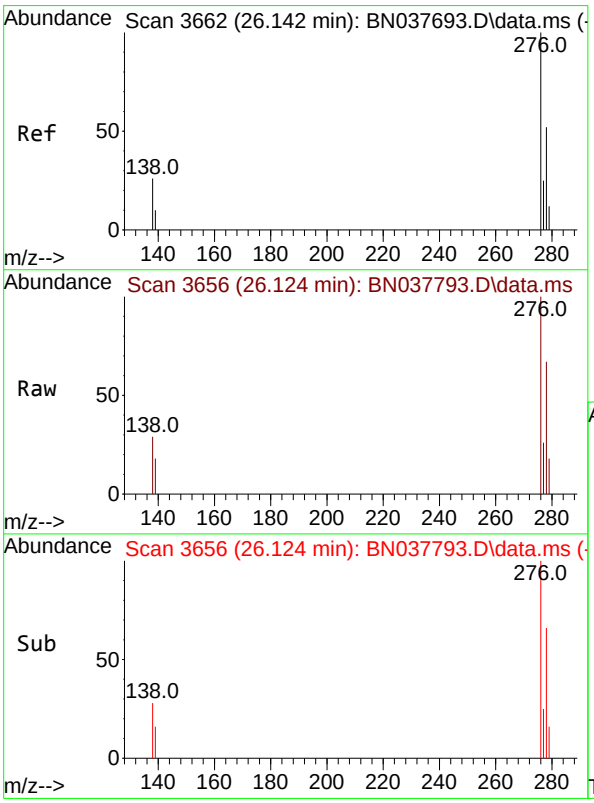

#35
Perylene-d12
Concen: 0.400 ng
RT: 23.739 min Scan# 2
Delta R.T. -0.015 min
Lab File: BN037793.D
Acq: 19 Sep 2025 00:52

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4EC

Tgt Ion:264 Resp: 15864

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 264 | 100 | | |
| 260 | 27.0 | 21.8 | 32.8 |
| 265 | 60.5 | 39.4 | 59.2# |

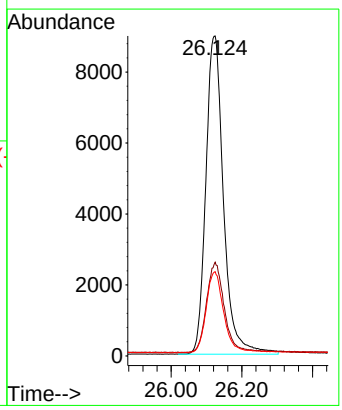


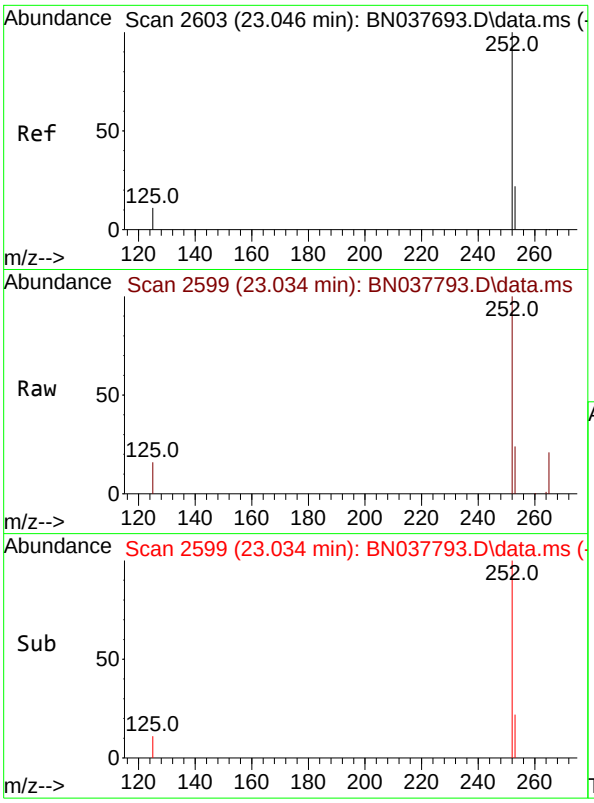




#36
Indeno(1,2,3-cd)pyrene
Concen: 0.467 ng
RT: 26.124 min Scan# 3656
Delta R.T. -0.018 min
Lab File: BN037793.D
Acq: 19 Sep 2025 00:52

Tgt Ion:276 Resp: 31159

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 276 | 100 | | |
| 138 | 28.2 | 21.9 | 32.9 |
| 277 | 25.3 | 20.1 | 30.1 |



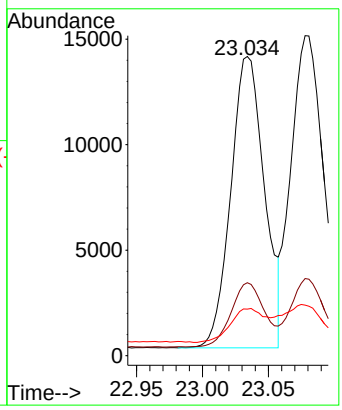


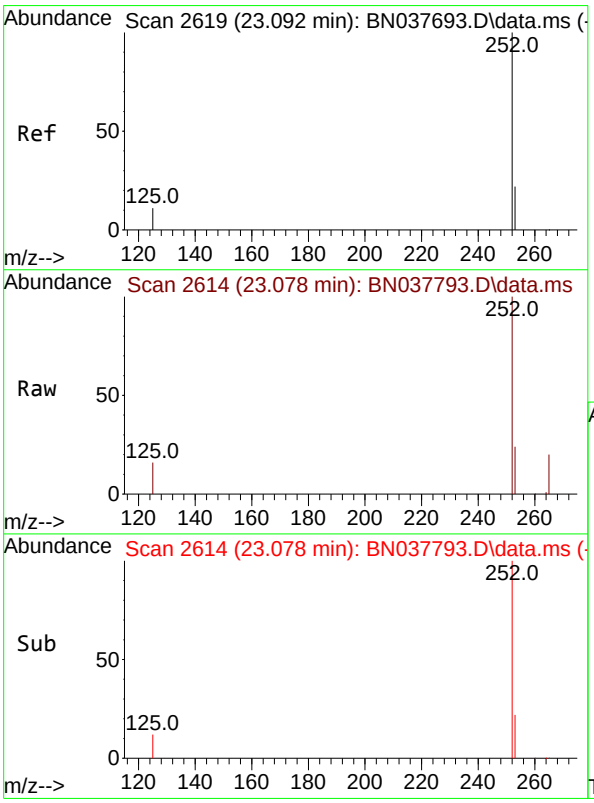

#37
Benzo(b)fluoranthene
Concen: 0.393 ng
RT: 23.034 min Scan# 2
Delta R.T. -0.012 min
Lab File: BN037793.D
Acq: 19 Sep 2025 00:52

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4EC

Tgt Ion:252 Resp: 24537

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 24.4 | 19.4 | 29.2 |
| 125 | 15.6 | 11.2 | 16.8 |

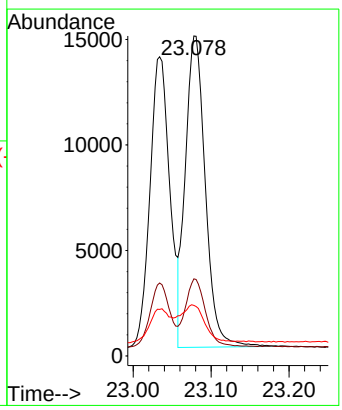


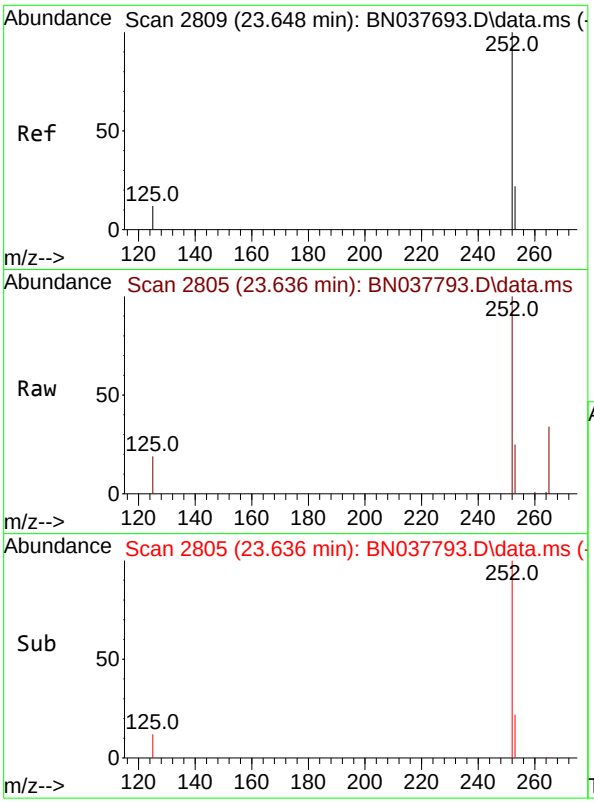




#38
Benzo(k)fluoranthene
Concen: 0.412 ng
RT: 23.078 min Scan# 2614
Delta R.T. -0.015 min
Lab File: BN037793.D
Acq: 19 Sep 2025 00:52

Tgt Ion:252 Resp: 26227

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 24.1 | 19.4 | 29.0 |
| 125 | 15.8 | 11.6 | 17.4 |



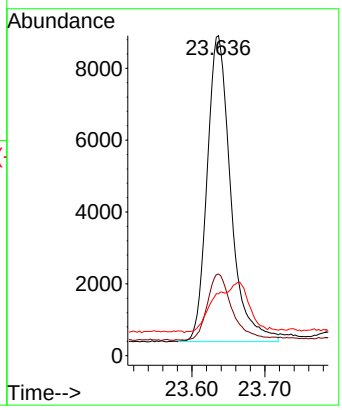


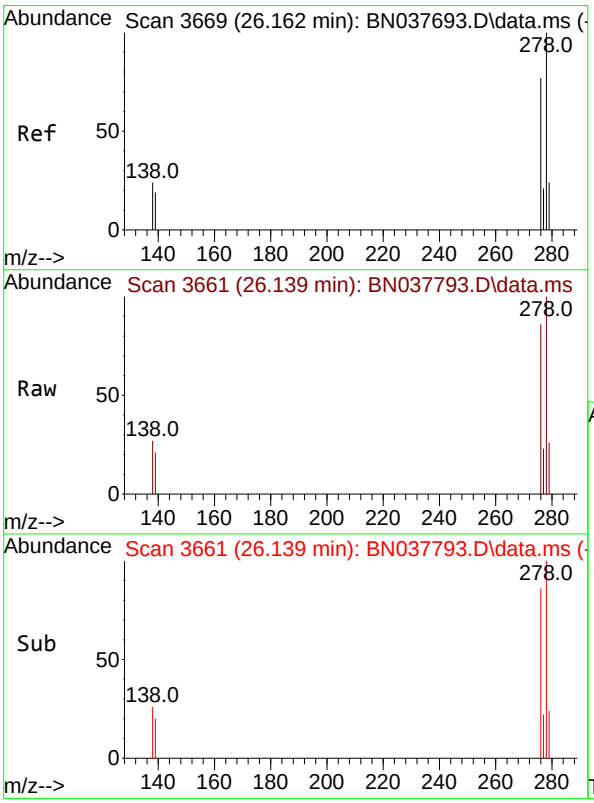

#39
Benzo(a)pyrene
Concen: 0.384 ng
RT: 23.636 min Scan# 2
Delta R.T. -0.012 min
Lab File: BN037793.D
Acq: 19 Sep 2025 00:52

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4EC

Tgt Ion:252 Resp: 19199

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 25.5 | 20.8 | 31.2 |
| 125 | 19.4 | 13.9 | 20.9 |

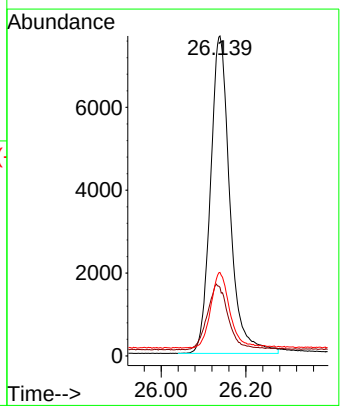


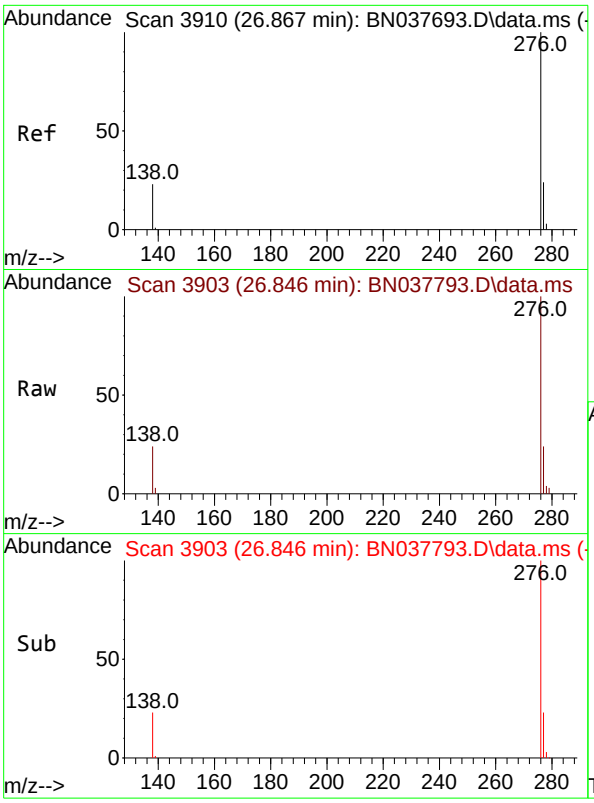




#40
Dibenzo(a,h)anthracene
Concen: 0.459 ng
RT: 26.139 min Scan# 3661
Delta R.T. -0.023 min
Lab File: BN037793.D
Acq: 19 Sep 2025 00:52

Tgt Ion:278 Resp: 24445

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 278 | 100 | | |
| 139 | 21.4 | 17.8 | 26.6 |
| 279 | 26.1 | 22.0 | 33.0 |



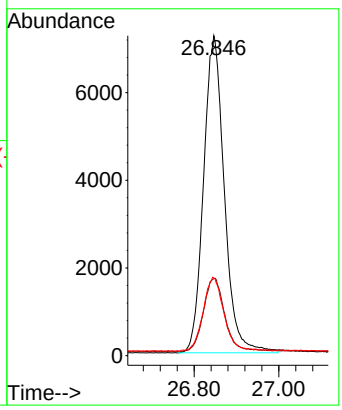



#41
Benzo(g,h,i)perylene
Concen: 0.413 ng
RT: 26.846 min Scan# 3
Delta R.T. -0.021 min
Lab File: BN037793.D
Acq: 19 Sep 2025 00:52

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4EC

Tgt Ion:276 Resp: 24646

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 276 | 100 | | |
| 277 | 24.1 | 20.6 | 31.0 |
| 138 | 24.2 | 20.2 | 30.2 |



Evaluate Continuing Calibration Report

Sample Results: **BN037793.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN091825\
Data File : BN037793.D
Acq On : 19 Sep 2025 00:52
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 19 Sample Multiplier: 1

**Instrument :**
BNA_N
**LabSampleId :**
SSTDCCC0.4

Quant Time: Sep 19 04:13:20 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN091125.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Sep 11 14:20:01 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 | 149 | 0.00 |
| 2 | | 1,4-Dioxane | 0.417 | 0.436 | -4.6 | 154# | 0.00 |
| 3 | | n-Nitrosodimethylamine | 0.544 | 0.506 | 7.0 | 134 | 0.00 |
| 4 | S | 2-Fluorophenol | 0.918 | 0.923 | -0.5 | 154# | 0.00 |
| 5 | S | Phenol-d6 | 1.191 | 1.148 | 3.6 | 148 | 0.00 |
| 6 | | bis(2-Chloroethyl)ether | 1.064 | 1.028 | 3.4 | 143 | 0.00 |
| 7 | I | Naphthalene-d8 | 1.000 | 1.000 | 0.0 | 147 | -0.01 |
| 8 | S | Nitrobenzene-d5 | 0.293 | 0.295 | -0.7 | 153# | -0.01 |
| 9 | | Naphthalene | 1.093 | 1.073 | 1.8 | 147 | -0.01 |
| 10 | | Hexachlorobutadiene | 0.198 | 0.192 | 3.0 | 143 | -0.01 |
| 11 | SURR | 2-Methylnaphthalene-d10 | 0.530 | 0.496 | 6.4 | 146 | -0.01 |
| 12 | | 2-Methylnaphthalene | 0.676 | 0.651 | 3.7 | 145 | -0.01 |
| 13 | I | Acenaphthene-d10 | 1.000 | 1.000 | 0.0 | 147 | -0.01 |
| 14 | S | 2,4,6-Tribromophenol | 0.104 | 0.127 | -22.1 | 185# | -0.01 |
| 15 | S | 2-Fluorobiphenyl | 1.673 | 1.632 | 2.5 | 145 | -0.01 |
| 16 | | Acenaphthylene | 1.834 | 1.727 | 5.8 | 142 | 0.00 |
| 17 | | Acenaphthene | 1.240 | 1.190 | 4.0 | 143 | -0.01 |
| 18 | | Fluorene | 1.502 | 1.448 | 3.6 | 147 | 0.00 |
| 19 | I | Phenanthrene-d10 | 1.000 | 1.000 | 0.0 | 149 | 0.00 |
| 20 | | 4,6-Dinitro-2-methylphenol | 0.037 | 0.033 | 10.8 | 151# | -0.01 |
| 21 | | 4-Bromophenyl-phenylether | 0.261 | 0.250 | 4.2 | 148 | -0.01 |
| 22 | | Hexachlorobenzene | 0.300 | 0.298 | 0.7 | 151# | -0.01 |
| 23 | | Atrazine | 0.166 | 0.161 | 3.0 | 158# | -0.01 |
| 24 | | Pentachlorophenol | 0.087 | 0.102 | -17.2 | 205# | 0.00 |
| 25 | | Phenanthrene | 1.259 | 1.223 | 2.9 | 149 | -0.01 |
| 26 | | Anthracene | 1.116 | 1.055 | 5.5 | 147 | -0.01 |
| 27 | SURR | Fluoranthene-d10 | 1.004 | 0.954 | 5.0 | 152# | 0.00 |
| 28 | | Fluoranthene | 1.381 | 1.359 | 1.6 | 155# | 0.00 |
| 29 | I | Chrysene-d12 | 1.000 | 1.000 | 0.0 | 161# | 0.00 |
| 30 | | Pyrene | 1.566 | 1.503 | 4.0 | 156# | 0.00 |
| 31 | S | Terphenyl-d14 | 0.812 | 0.785 | 3.3 | 158# | 0.00 |
| 32 | | Benzo(a)anthracene | 1.395 | 1.341 | 3.9 | 161# | 0.00 |
| 33 | | Chrysene | 1.496 | 1.492 | 0.3 | 161# | 0.00 |
| 34 | | Bis(2-ethylhexyl)phthalate | 0.414 | 0.563 | -36.0# | 242# | -0.02 |
| 35 | I | Perylene-d12 | 1.000 | 1.000 | 0.0 | 177# | -0.01 |
| 36 | | Indeno(1,2,3-cd)pyrene | 1.681 | 1.964 | -16.8 | 225# | -0.02 |
| 37 | | Benzo(b)fluoranthene | 1.575 | 1.547 | 1.8 | 176# | -0.01 |
| 38 | | Benzo(k)fluoranthene | 1.606 | 1.653 | -2.9 | 192# | -0.01 |
| 39 | C | Benzo(a)pyrene | 1.261 | 1.210 | 4.0 | 178# | -0.01 |
| 40 | | Dibenzo(a,h)anthracene | 1.342 | 1.541 | -14.8 | 225# | -0.02 |
| 41 | | Benzo(g,h,i)perylene | 1.506 | 1.554 | -3.2 | 189# | -0.02 |

(#) = Out of Range SPCC's out = 0 CCC's out = 0

**Instrument :**
BNA_N
**LabSampleId :**
SSTDCCC0.4

Evaluate Continuing Calibration Report

Sample Results: **BN037793.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN091825\
Data File : BN037793.D
Acq On : 19 Sep 2025 00:52
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 19 Sample Multiplier: 1

**Instrument :**
BNA_N
**LabSampleId :**
SSTDCCC0.4

Quant Time: Sep 19 04:13:20 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN091125.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Sep 11 14:20:01 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 | 149 | 0.00 |
| 2 | | 1,4-Dioxane | 0.400 | 0.418 | -4.5 | 154 | 0.00 |
| 3 | | n-Nitrosodimethylamine | 0.400 | 0.372 | 7.0 | 134 | 0.00 |
| 4 | S | 2-Fluorophenol | 0.400 | 0.402 | -0.5 | 154 | 0.00 |
| 5 | S | Phenol-d6 | 0.400 | 0.386 | 3.5 | 148 | 0.00 |
| 6 | | bis(2-Chloroethyl)ether | 0.400 | 0.386 | 3.5 | 143 | 0.00 |
| 7 | I | Naphthalene-d8 | 0.400 | 0.400 | 0.0 | 147 | -0.01 |
| 8 | S | Nitrobenzene-d5 | 0.400 | 0.404 | -1.0 | 153 | -0.01 |
| 9 | | Naphthalene | 0.400 | 0.393 | 1.8 | 147 | -0.01 |
| 10 | | Hexachlorobutadiene | 0.400 | 0.389 | 2.8 | 143 | -0.01 |
| 11 | SURR | 2-Methylnaphthalene-d10 | 0.400 | 0.374 | 6.5 | 146 | -0.01 |
| 12 | | 2-Methylnaphthalene | 0.400 | 0.385 | 3.8 | 145 | -0.01 |
| 13 | I | Acenaphthene-d10 | 0.400 | 0.400 | 0.0 | 147 | -0.01 |
| 14 | S | 2,4,6-Tribromophenol | 0.400 | 0.488 | -22.0 | 185 | -0.01 |
| 15 | S | 2-Fluorobiphenyl | 0.400 | 0.390 | 2.5 | 145 | -0.01 |
| 16 | | Acenaphthylene | 0.400 | 0.377 | 5.8 | 142 | 0.00 |
| 17 | | Acenaphthene | 0.400 | 0.384 | 4.0 | 143 | -0.01 |
| 18 | | Fluorene | 0.400 | 0.386 | 3.5 | 147 | 0.00 |
| 19 | I | Phenanthrene-d10 | 0.400 | 0.400 | 0.0 | 149 | 0.00 |
| 20 | | 4,6-Dinitro-2-methylphenol | 0.400 | 0.362 | 9.5 | 151 | -0.01 |
| 21 | | 4-Bromophenyl-phenylether | 0.400 | 0.383 | 4.3 | 148 | -0.01 |
| 22 | | Hexachlorobenzene | 0.400 | 0.397 | 0.8 | 151 | -0.01 |
| 23 | | Atrazine | 0.400 | 0.387 | 3.3 | 158 | -0.01 |
| 24 | | Pentachlorophenol | 0.400 | 0.470 | -17.5 | 205 | 0.00 |
| 25 | | Phenanthrene | 0.400 | 0.389 | 2.8 | 149 | -0.01 |
| 26 | | Anthracene | 0.400 | 0.378 | 5.5 | 147 | -0.01 |
| 27 | SURR | Fluoranthene-d10 | 0.400 | 0.380 | 5.0 | 152 | 0.00 |
| 28 | | Fluoranthene | 0.400 | 0.394 | 1.5 | 155 | 0.00 |
| 29 | I | Chrysene-d12 | 0.400 | 0.400 | 0.0 | 161 | 0.00 |
| 30 | | Pyrene | 0.400 | 0.384 | 4.0 | 156 | 0.00 |
| 31 | S | Terphenyl-d14 | 0.400 | 0.387 | 3.3 | 158 | 0.00 |
| 32 | | Benzo(a)anthracene | 0.400 | 0.385 | 3.8 | 161 | 0.00 |
| 33 | | Chrysene | 0.400 | 0.399 | 0.3 | 161 | 0.00 |
| 34 | | Bis(2-ethylhexyl)phthalate | 0.400 | 0.545 | -36.3# | 242 | -0.02 |
| 35 | I | Perylene-d12 | 0.400 | 0.400 | 0.0 | 177 | -0.01 |
| 36 | | Indeno(1,2,3-cd)pyrene | 0.400 | 0.467 | -16.8 | 225 | -0.02 |
| 37 | | Benzo(b)fluoranthene | 0.400 | 0.393 | 1.8 | 176 | -0.01 |
| 38 | | Benzo(k)fluoranthene | 0.400 | 0.412 | -3.0 | 192 | -0.01 |
| 39 | C | Benzo(a)pyrene | 0.400 | 0.384 | 4.0 | 178 | -0.01 |
| 40 | | Dibenzo(a,h)anthracene | 0.400 | 0.459 | -14.8 | 225 | -0.02 |
| 41 | | Benzo(g,h,i)perylene | 0.400 | 0.413 | -3.2 | 189 | -0.02 |

(#) = Out of Range SPCC's out = 0 CCC's out = 0

**Instrument :**
BNA_N
**LabSampleId :**
SSTDCCC0.4

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

7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: Alliance Contract: AECO15

Lab Code: ACE SDG No.: Q3095

Instrument ID: BNA_N Calibration Date/Time: 09/19/2025 02:47

Lab File ID: BN037795.D Init. Calib. Date(s): 09/11/2025 09/11/2025

EPA Sample No.: SSTDCCC0.4 Init. Calib. Time(s): 09:56 13:33

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

| COMPOUND | RRF | RRF0.4 | MIN RRF | %D | MAX%D |
|---|---|---|---|---|---|
| 2-Methylnaphthalene-d10 | 0.530 | 0.490 | | -7.5 | 20.0 |
| Fluoranthene-d10 | 1.004 | 0.858 | | -14.5 | 20.0 |
| 2-Fluorophenol | 0.918 | 0.830 | | -9.6 | 20.0 |
| Phenol-d6 | 1.191 | 1.152 | | -3.3 | 20.0 |
| Nitrobenzene-d5 | 0.293 | 0.308 | | 5.1 | 20.0 |
| 2-Fluorobiphenyl | 1.673 | 1.696 | | 1.4 | 20.0 |
| 2,4,6-Tribromophenol | 0.104 | 0.120 | | 15.4 | 20.0 |
| Terphenyl-d14 | 0.812 | 0.771 | | -5.0 | 20.0 |
| 1,4-Dioxane | 0.417 | 0.391 | | -6.2 | 20.0 |

All other compounds must meet a minimum RRF of 0.010.

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN091825\
Data File : BN037795.D
Acq On : 19 Sep 2025 02:47
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 20 Sample Multiplier: 1

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4

Quant Time: Sep 19 04:13:46 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN091125.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Sep 11 14:20:01 2025
Response via : Initial Calibration

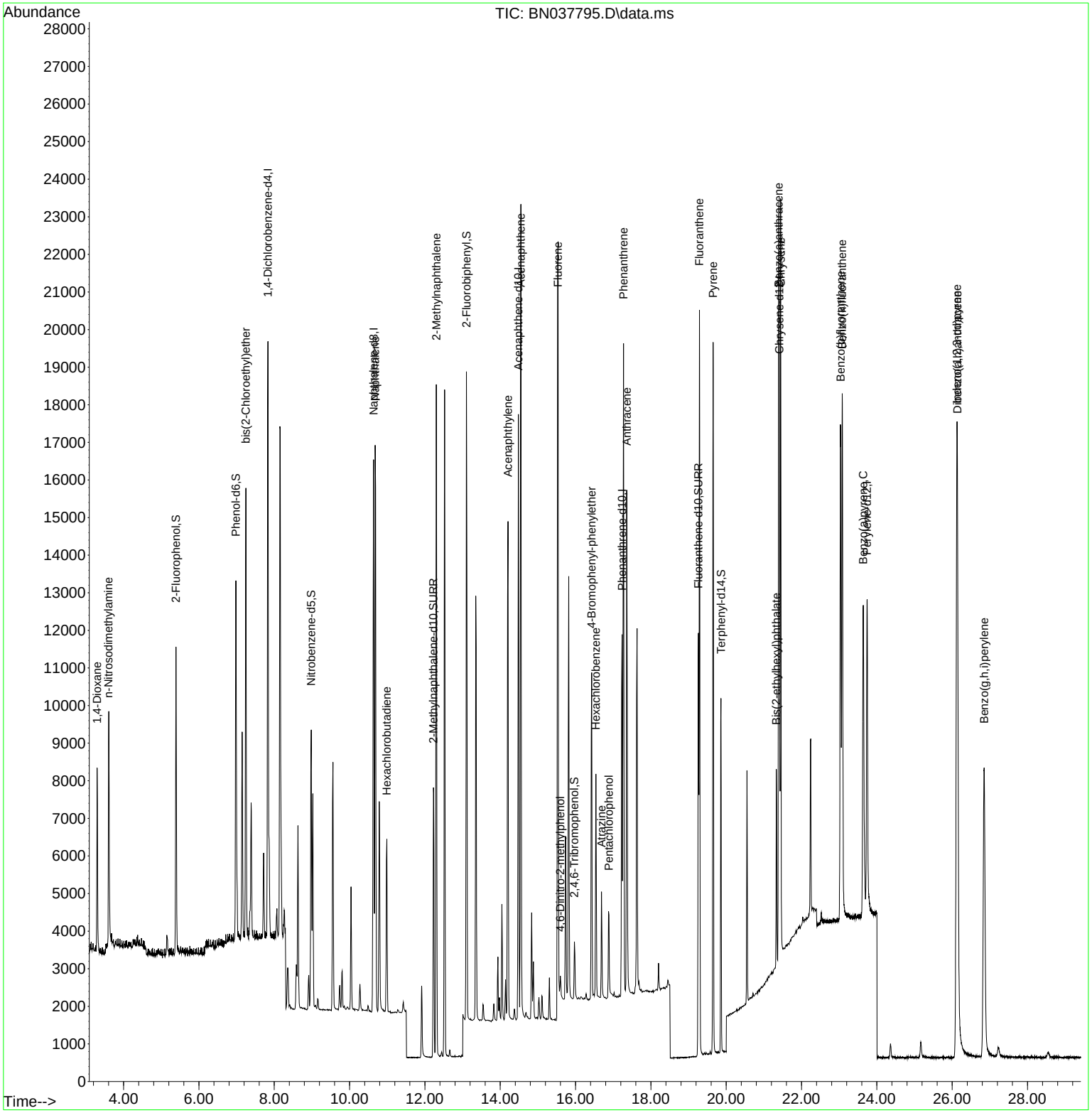
| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| Internal Standards | | | | | | | |
| 1) 1,4-Dichlorobenzene-d4 | 7.833 | 152 | 7724 | 0.400 | ng | | 0.00 |
| 7) Naphthalene-d8 | 10.637 | 136 | 19361 | 0.400 | ng | | -0.01 |
| 13) Acenaphthene-d10 | 14.484 | 164 | 8621 | 0.400 | ng | | -0.01 |
| 19) Phenanthrene-d10 | 17.235 | 188 | 14380 | 0.400 | ng | | # 0.00 |
| 29) Chrysene-d12 | 21.411 | 240 | 11169 | 0.400 | ng | | 0.00 |
| 35) Perylene-d12 | 23.742 | 264 | 11840 | 0.400 | ng | | #-0.01 |
| System Monitoring Compounds | | | | | | | |
| 4) 2-Fluorophenol | 5.392 | 112 | 6414 | 0.362 | ng | | 0.00 |
| 5) Phenol-d6 | 6.981 | 99 | 8898 | 0.387 | ng | | 0.00 |
| 8) Nitrobenzene-d5 | 8.982 | 82 | 5961 | 0.421 | ng | | -0.01 |
| 11) 2-Methylnaphthalene-d10 | 12.228 | 152 | 9493 | 0.370 | ng | | -0.02 |
| 14) 2,4,6-Tribromophenol | 15.969 | 330 | 1034 | 0.460 | ng | | -0.01 |
| 15) 2-Fluorobiphenyl | 13.105 | 172 | 14625 | 0.406 | ng | | -0.01 |
| 27) Fluoranthene-d10 | 19.262 | 212 | 12337 | 0.342 | ng | | 0.00 |
| 31) Terphenyl-d14 | 19.861 | 244 | 8607 | 0.380 | ng | | 0.00 |
| Target Compounds | | | | | | | Qvalue |
| 2) 1,4-Dioxane | 3.297 | 88 | 3022 | 0.376 | ng | | 95 |
| 3) n-Nitrosodimethylamine | 3.601 | 42 | 3835 | 0.365 | ng | # | 90 |
| 6) bis(2-Chloroethyl)ether | 7.248 | 93 | 8278 | 0.403 | ng | | 99 |
| 9) Naphthalene | 10.680 | 128 | 20623 | 0.390 | ng | | 100 |
| 10) Hexachlorobutadiene | 10.989 | 225 | 3796 | 0.396 | ng | # | 99 |
| 12) 2-Methylnaphthalene | 12.304 | 142 | 12533 | 0.383 | ng | | 99 |
| 16) Acenaphthylene | 14.206 | 152 | 14987 | 0.379 | ng | | 100 |
| 17) Acenaphthene | 14.548 | 154 | 10387 | 0.389 | ng | | 97 |
| 18) Fluorene | 15.535 | 166 | 11958 | 0.369 | ng | | 99 |
| 20) 4,6-Dinitro-2-methylph... | 15.597 | 198 | 430 | 0.323 | ng | # | 74 |
| 21) 4-Bromophenyl-phenylether | 16.429 | 248 | 3726 | 0.397 | ng | # | 96 |
| 22) Hexachlorobenzene | 16.540 | 284 | 4695 | 0.435 | ng | | 98 |
| 23) Atrazine | 16.689 | 200 | 2195 | 0.368 | ng | # | 95 |
| 24) Pentachlorophenol | 16.888 | 266 | 1416 | 0.452 | ng | | 96 |
| 25) Phenanthrene | 17.273 | 178 | 17514 | 0.387 | ng | | 99 |
| 26) Anthracene | 17.360 | 178 | 14982 | 0.374 | ng | | 100 |
| 28) Fluoranthene | 19.290 | 202 | 17532 | 0.353 | ng | | 100 |
| 30) Pyrene | 19.652 | 202 | 17441 | 0.399 | ng | | 100 |
| 32) Benzo(a)anthracene | 21.393 | 228 | 14838 | 0.381 | ng | | 100 |
| 33) Chrysene | 21.447 | 228 | 16770 | 0.401 | ng | | 99 |
| 34) Bis(2-ethylhexyl)phtha... | 21.331 | 149 | 4946 | 0.428 | ng | | 99 |
| 36) Indeno(1,2,3-cd)pyrene | 26.124 | 276 | 22723 | 0.457 | ng | | 99 |
| 37) Benzo(b)fluoranthene | 23.037 | 252 | 17698 | 0.380 | ng | | 98 |
| 38) Benzo(k)fluoranthene | 23.081 | 252 | 18956 | 0.399 | ng | | 97 |
| 39) Benzo(a)pyrene | 23.636 | 252 | 14490 | 0.388 | ng | | 97 |
| 40) Dibenzo(a,h)anthracene | 26.139 | 278 | 17796 | 0.448 | ng | | 98 |
| 41) Benzo(g,h,i)perylene | 26.849 | 276 | 18357 | 0.412 | ng | | 97 |

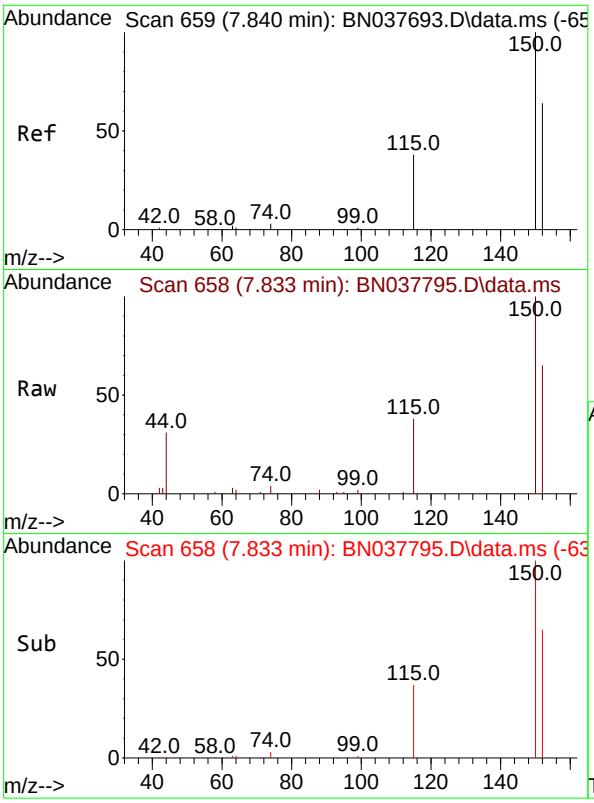
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN091825\
Data File : BN037795.D
Acq On : 19 Sep 2025 02:47
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 20 Sample Multiplier: 1

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4

Quant Time: Sep 19 04:13:46 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN091125.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Sep 11 14:20:01 2025
Response via : Initial Calibration



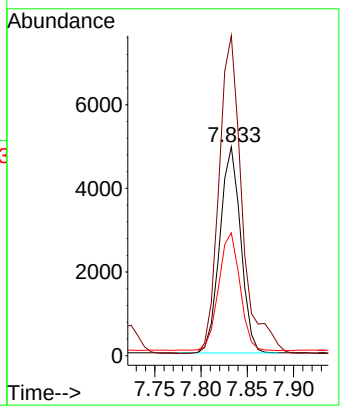


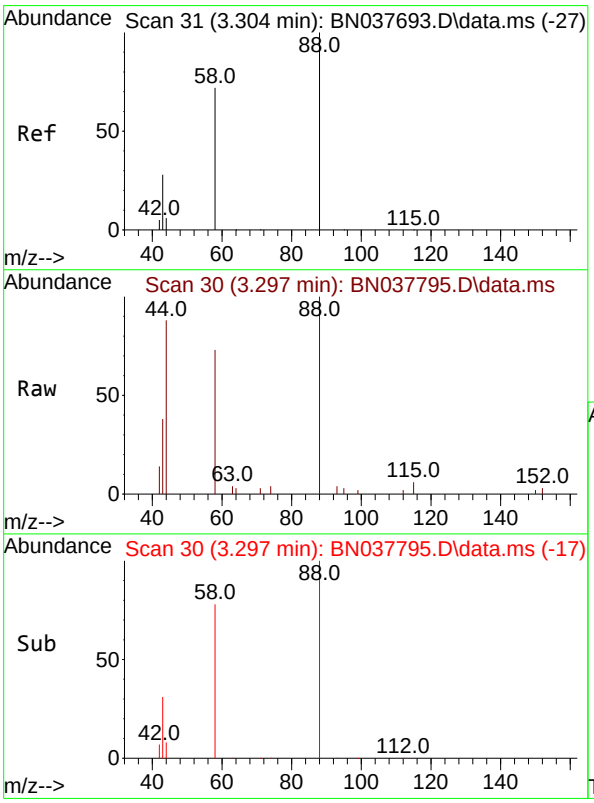

#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.833 min Scan# 6
Delta R.T. -0.007 min
Lab File: BN037795.D
Acq: 19 Sep 2025 02:47

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4

Tgt Ion:152 Resp: 7724

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 150 | 153.2 | 124.5 | 186.7 |
| 115 | 58.8 | 49.2 | 73.8 |

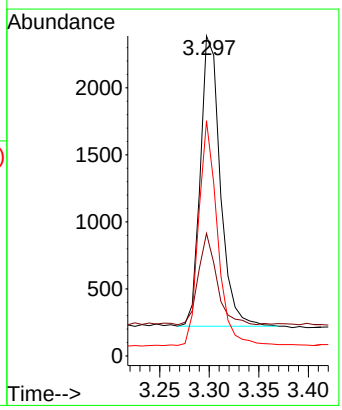


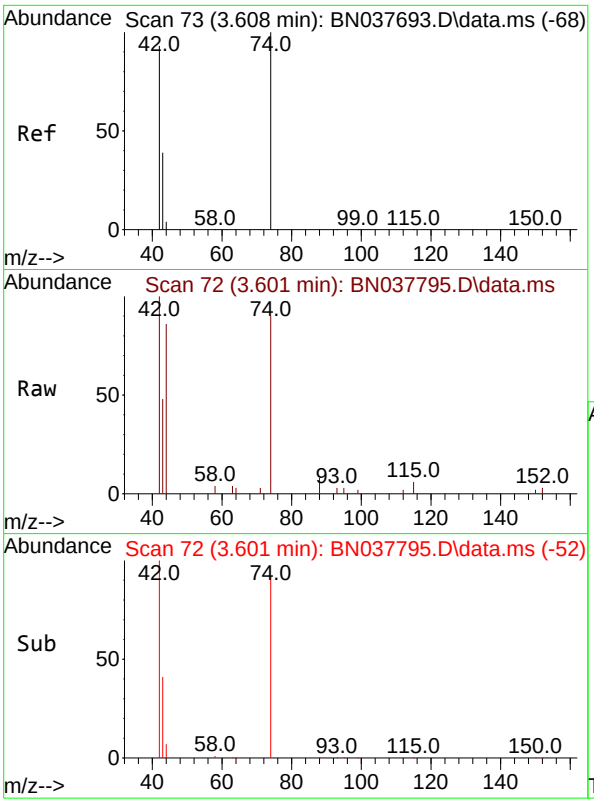




#2
1,4-Dioxane
Concen: 0.376 ng
RT: 3.297 min Scan# 30
Delta R.T. -0.007 min
Lab File: BN037795.D
Acq: 19 Sep 2025 02:47

Tgt Ion: 88 Resp: 3022

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 88 | 100 | | |
| 43 | 29.0 | 26.8 | 40.2 |
| 58 | 73.9 | 61.9 | 92.9 |



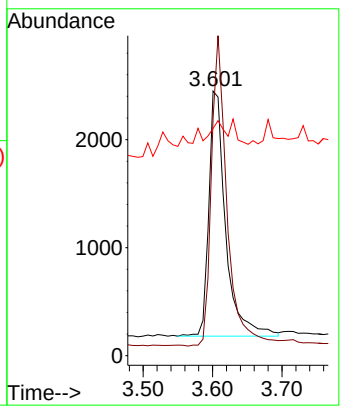


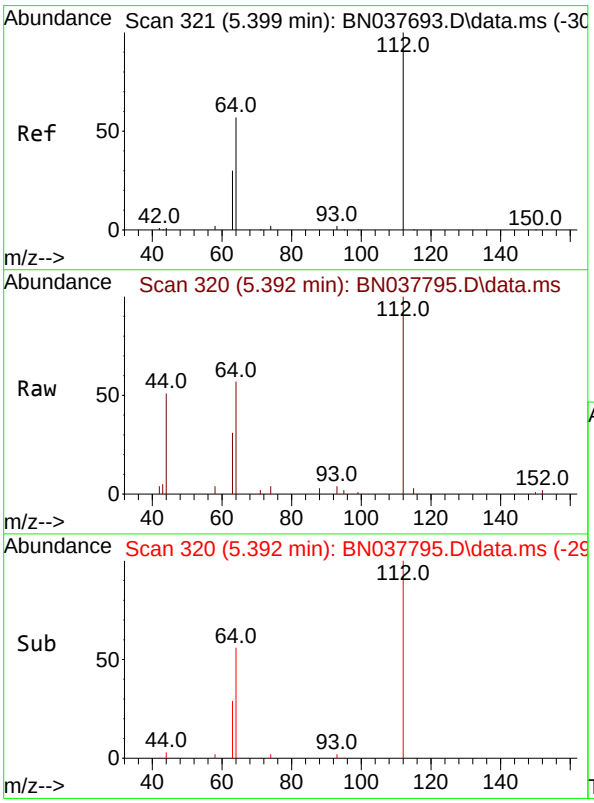

#3
n-Nitrosodimethylamine
Concen: 0.365 ng
RT: 3.601 min Scan# 7
Delta R.T. -0.007 min
Lab File: BN037795.D
Acq: 19 Sep 2025 02:47

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4

Tgt Ion: 42 Resp: 3835

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 42 | 100 | | |
| 74 | 117.9 | 86.0 | 129.0 |
| 44 | 5.8 | 8.4 | 12.6# |

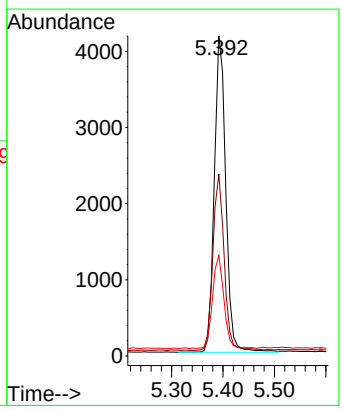


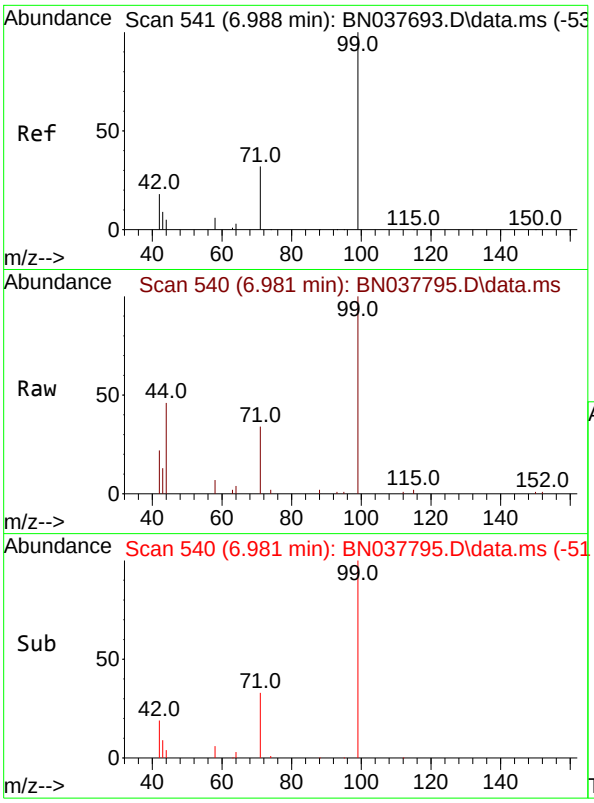




#4
2-Fluorophenol
Concen: 0.362 ng
RT: 5.392 min Scan# 320
Delta R.T. -0.007 min
Lab File: BN037795.D
Acq: 19 Sep 2025 02:47

Tgt Ion:112 Resp: 6414

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 112 | 100 | | |
| 64 | 55.5 | 44.9 | 67.3 |
| 63 | 28.9 | 24.7 | 37.1 |



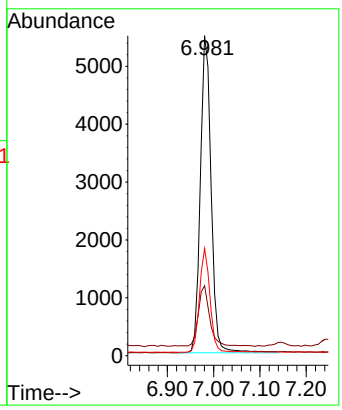


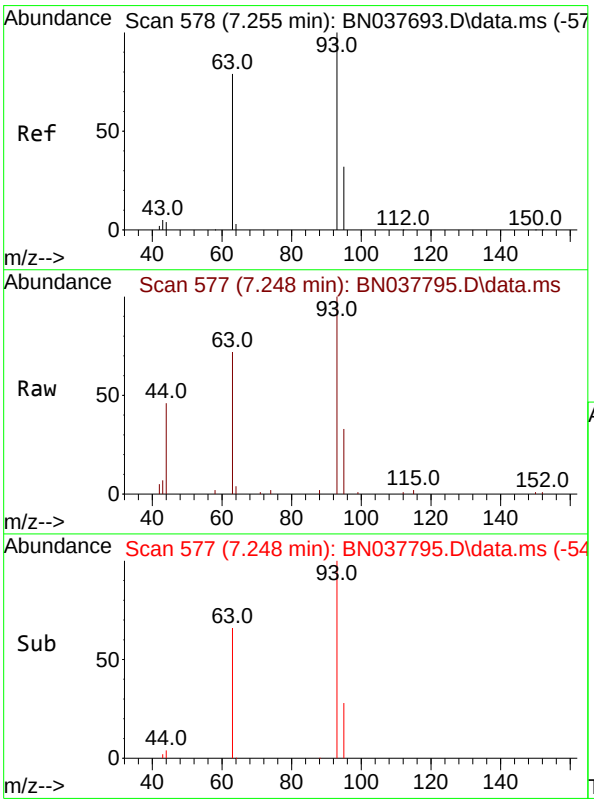

#5
Phenol-d6
Concen: 0.387 ng
RT: 6.981 min Scan# 54
Delta R.T. -0.007 min
Lab File: BN037795.D
Acq: 19 Sep 2025 02:47

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4

Tgt Ion: 99 Resp: 8898

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 99 | 100 | | |
| 42 | 20.3 | 16.6 | 24.8 |
| 71 | 31.9 | 26.7 | 40.1 |

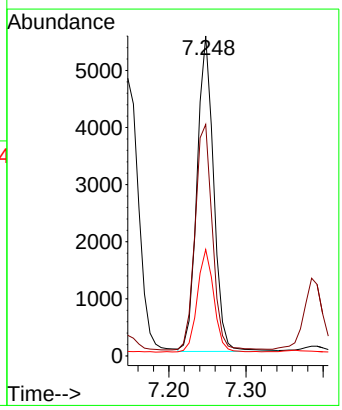


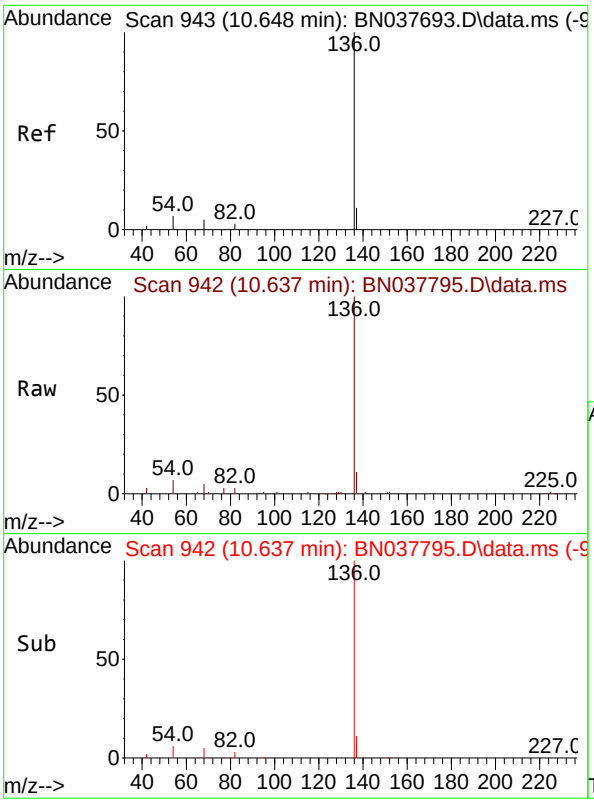




#6
bis(2-Chloroethyl)ether
Concen: 0.403 ng
RT: 7.248 min Scan# 577
Delta R.T. -0.007 min
Lab File: BN037795.D
Acq: 19 Sep 2025 02:47

Tgt Ion: 93 Resp: 8278

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 93 | 100 | | |
| 63 | 74.3 | 60.6 | 90.8 |
| 95 | 32.5 | 26.0 | 39.0 |



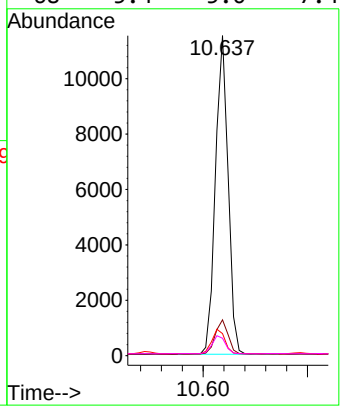


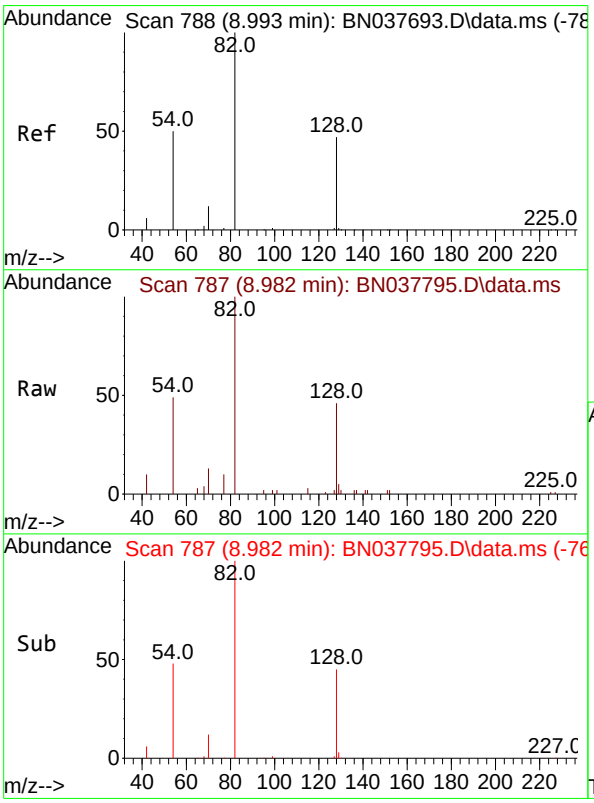

#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.637 min Scan# 94
Delta R.T. -0.011 min
Lab File: BN037795.D
Acq: 19 Sep 2025 02:47

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4

Tgt Ion:136 Resp: 19361

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 136 | 100 | | |
| 137 | 11.2 | 9.1 | 13.7 |
| 54 | 6.9 | 6.3 | 9.5 |
| 68 | 5.4 | 5.0 | 7.4 |

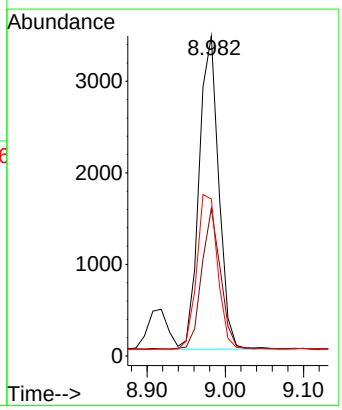


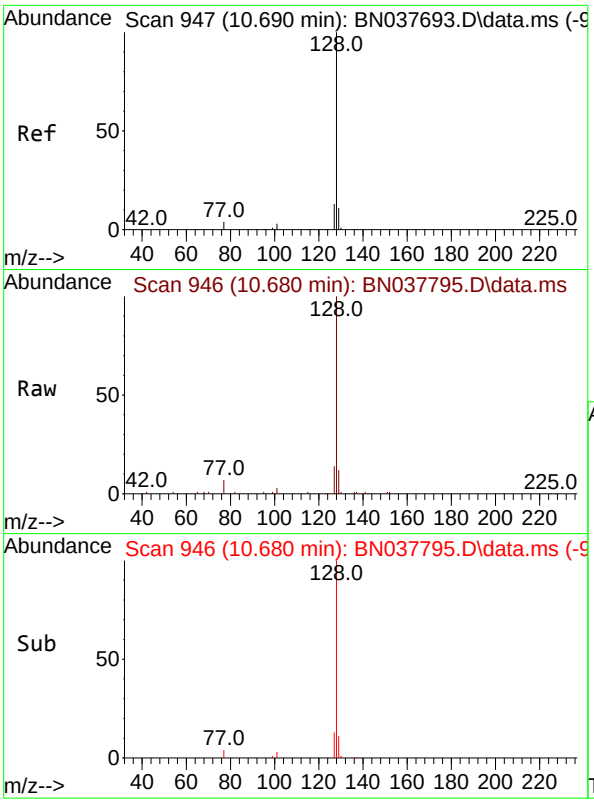




#8
Nitrobenzene-d5
Concen: 0.421 ng
RT: 8.982 min Scan# 787
Delta R.T. -0.011 min
Lab File: BN037795.D
Acq: 19 Sep 2025 02:47

Tgt Ion: 82 Resp: 5961

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 82 | 100 | | |
| 128 | 46.0 | 38.3 | 57.5 |
| 54 | 49.1 | 41.4 | 62.2 |



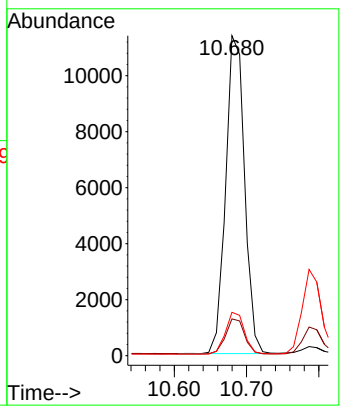


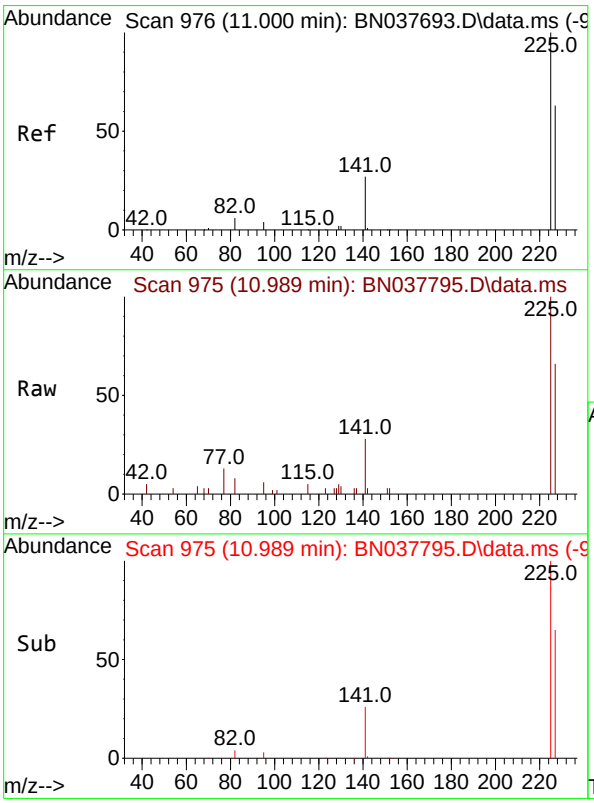

#9
Naphthalene
Concen: 0.390 ng
RT: 10.680 min Scan# 94
Delta R.T. -0.011 min
Lab File: BN037795.D
Acq: 19 Sep 2025 02:47

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4

Tgt Ion:128 Resp: 20623

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 128 | 100 | | |
| 129 | 11.5 | 9.1 | 13.7 |
| 127 | 13.6 | 10.9 | 16.3 |

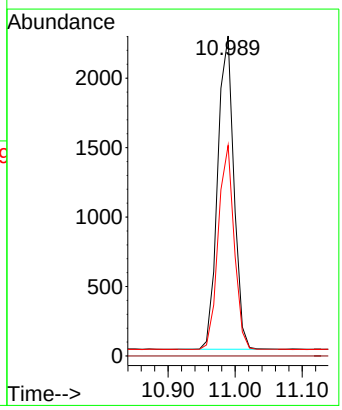


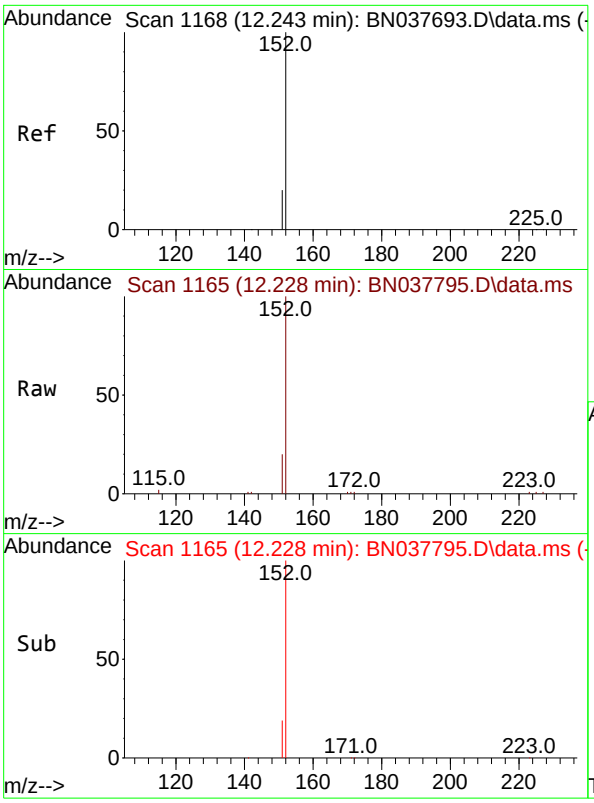




#10
Hexachlorobutadiene
Concen: 0.396 ng
RT: 10.989 min Scan# 975
Delta R.T. -0.011 min
Lab File: BN037795.D
Acq: 19 Sep 2025 02:47

Tgt Ion:225 Resp: 3796

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 225 | 100 | | |
| 223 | 0.0 | 0.0 | 0.0 |
| 227 | 64.1 | 50.9 | 76.3 |



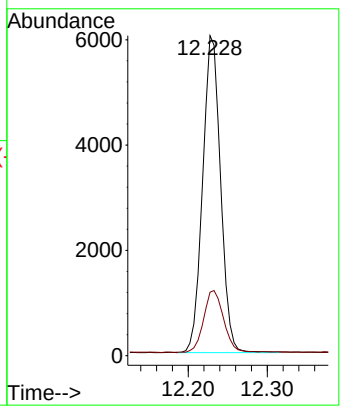


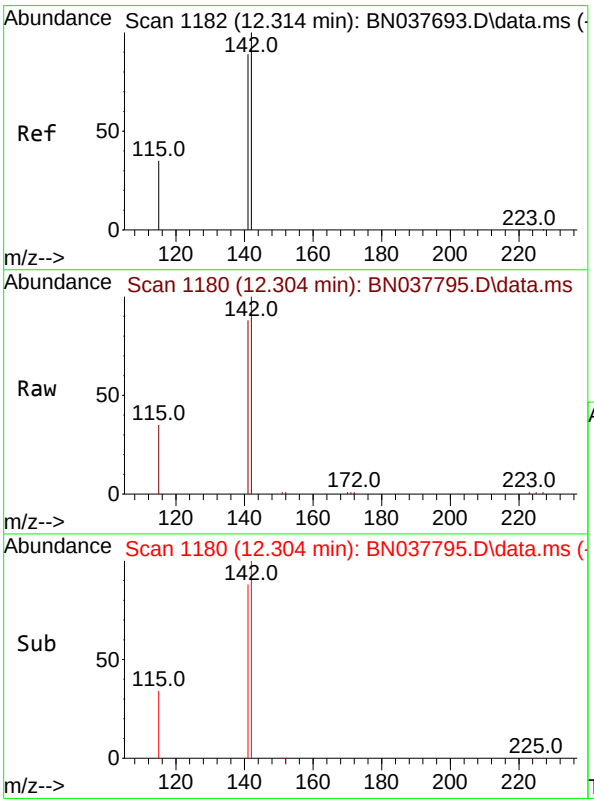

#11
2-Methylnaphthalene-d10
Concen: 0.370 ng
RT: 12.228 min Scan# 11
Delta R.T. -0.015 min
Lab File: BN037795.D
Acq: 19 Sep 2025 02:47

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4

Tgt Ion:152 Resp: 9493

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

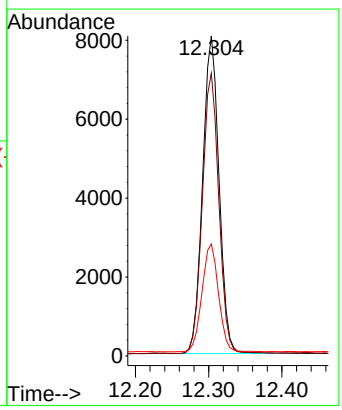


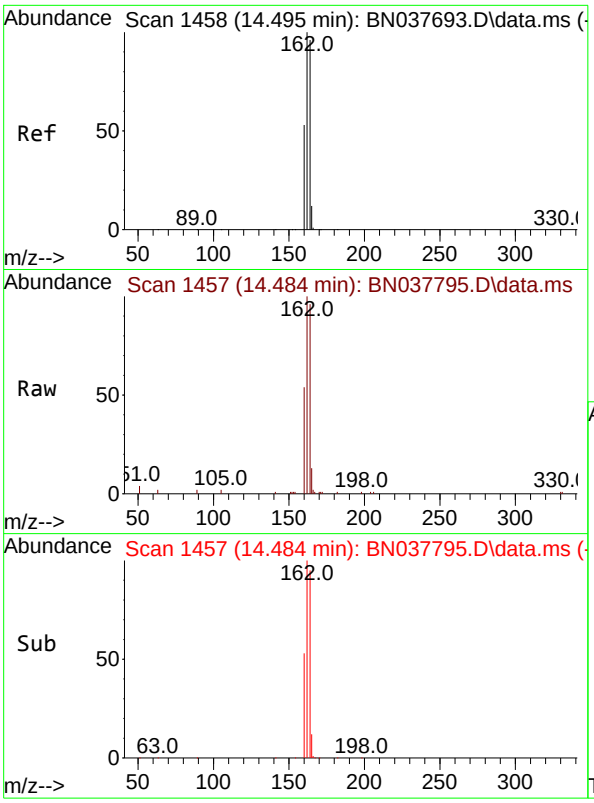




#12
2-Methylnaphthalene
Concen: 0.383 ng
RT: 12.304 min Scan# 1180
Delta R.T. -0.010 min
Lab File: BN037795.D
Acq: 19 Sep 2025 02:47

Tgt Ion:142 Resp: 12533

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 142 | 100 | | |
| 141 | 88.4 | 71.6 | 107.4 |
| 115 | 35.0 | 28.6 | 43.0 |



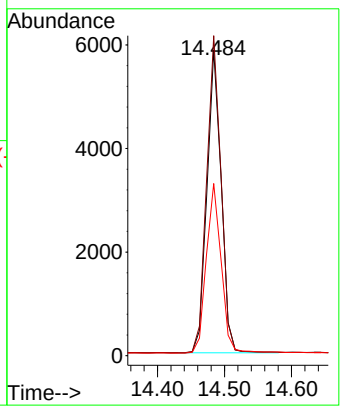


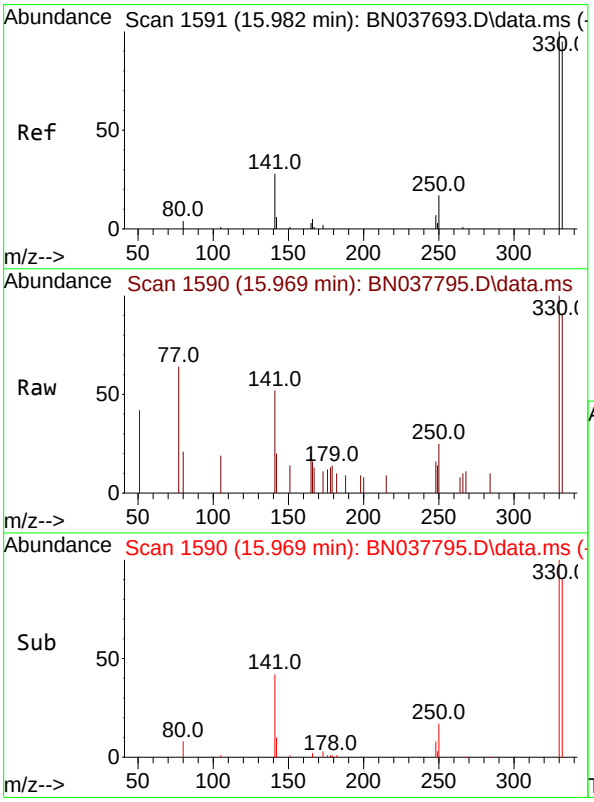

#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.484 min Scan# 14
Delta R.T. -0.011 min
Lab File: BN037795.D
Acq: 19 Sep 2025 02:47

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4

Tgt Ion:164 Resp: 8621

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 164 | 100 | | |
| 162 | 104.7 | 83.1 | 124.7 |
| 160 | 56.3 | 44.3 | 66.5 |

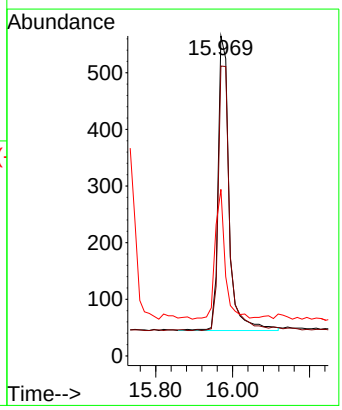


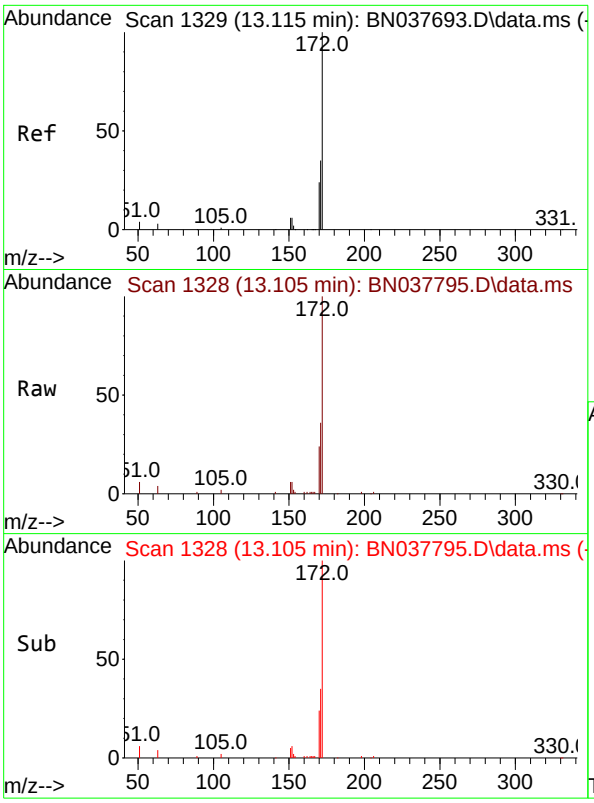




#14
2,4,6-Tribromophenol
Concen: 0.460 ng
RT: 15.969 min Scan# 1590
Delta R.T. -0.013 min
Lab File: BN037795.D
Acq: 19 Sep 2025 02:47

Tgt Ion:330 Resp: 1034

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 330 | 100 | | |
| 332 | 92.1 | 75.3 | 112.9 |
| 141 | 40.2 | 35.0 | 52.4 |



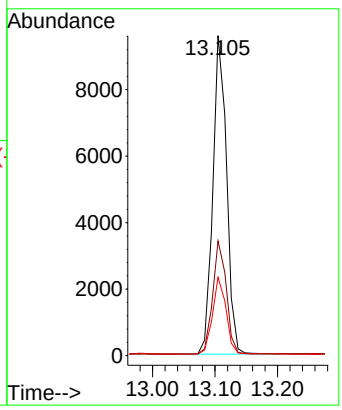


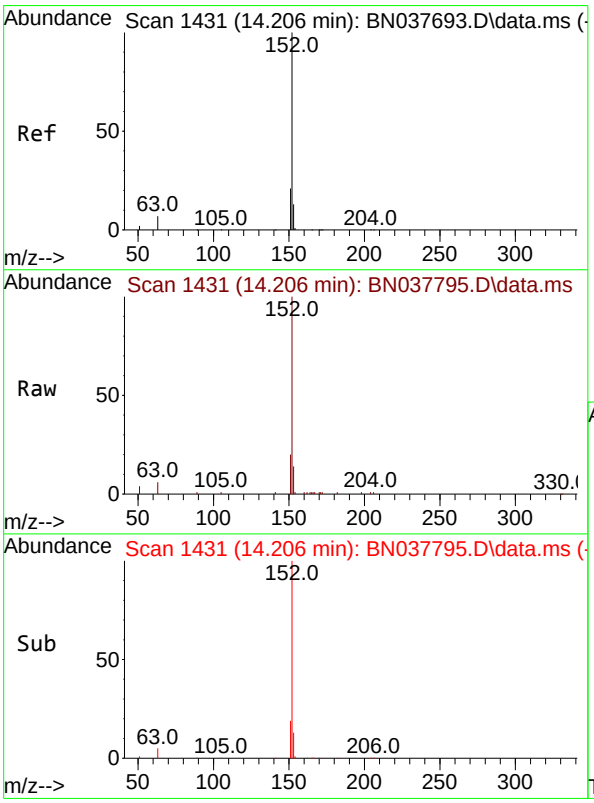

#15
2-Fluorobiphenyl
Concen: 0.406 ng
RT: 13.105 min Scan# 1
Delta R.T. -0.011 min
Lab File: BN037795.D
Acq: 19 Sep 2025 02:47

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4

Tgt Ion:172 Resp: 14625

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 172 | 100 | | |
| 171 | 35.9 | 28.6 | 43.0 |
| 170 | 24.5 | 19.8 | 29.8 |

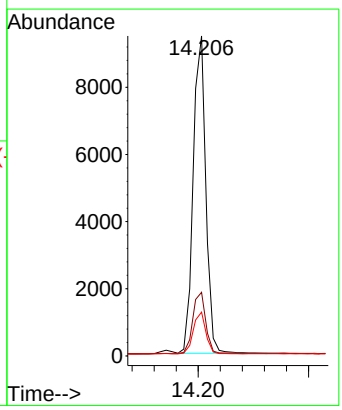


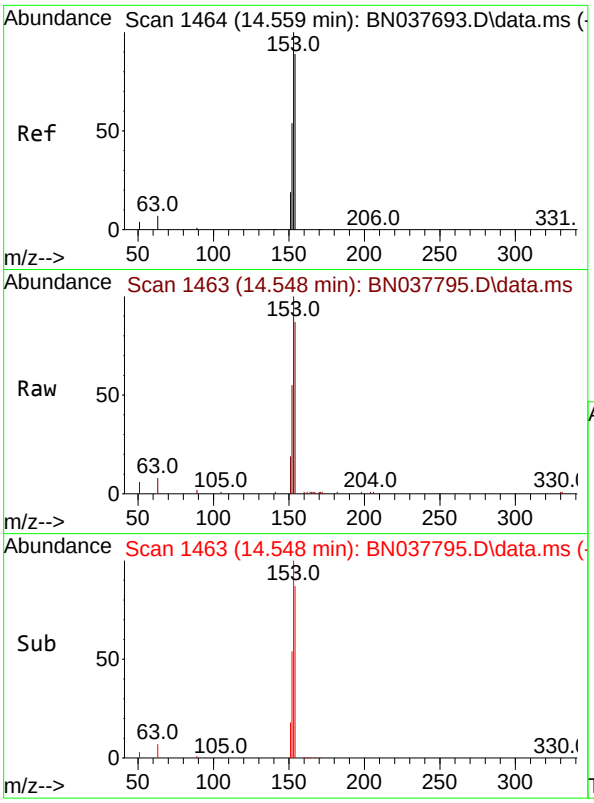




#16
Acenaphthylene
Concen: 0.379 ng
RT: 14.206 min Scan# 1431
Delta R.T. 0.000 min
Lab File: BN037795.D
Acq: 19 Sep 2025 02:47

Tgt Ion:152 Resp: 14987

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 151 | 20.0 | 16.2 | 24.2 |
| 153 | 13.0 | 10.4 | 15.6 |



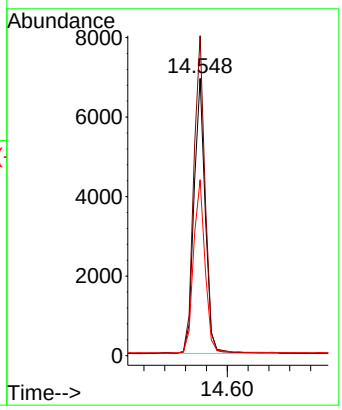


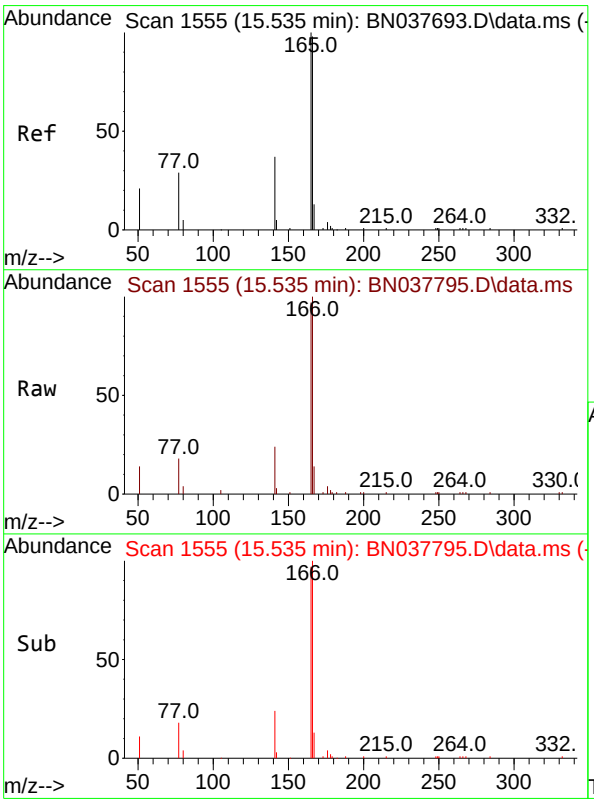

#17
Acenaphthene
Concen: 0.389 ng
RT: 14.548 min Scan# 14
Delta R.T. -0.011 min
Lab File: BN037795.D
Acq: 19 Sep 2025 02:47

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4

Tgt Ion:154 Resp: 10387

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 154 | 100 | | |
| 153 | 115.4 | 89.8 | 134.8 |
| 152 | 65.2 | 50.2 | 75.2 |

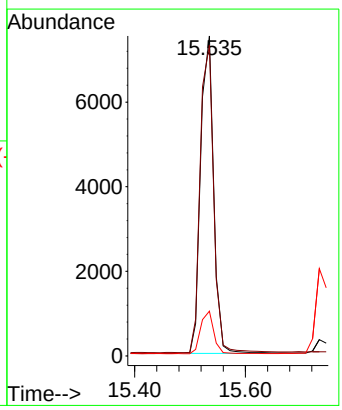


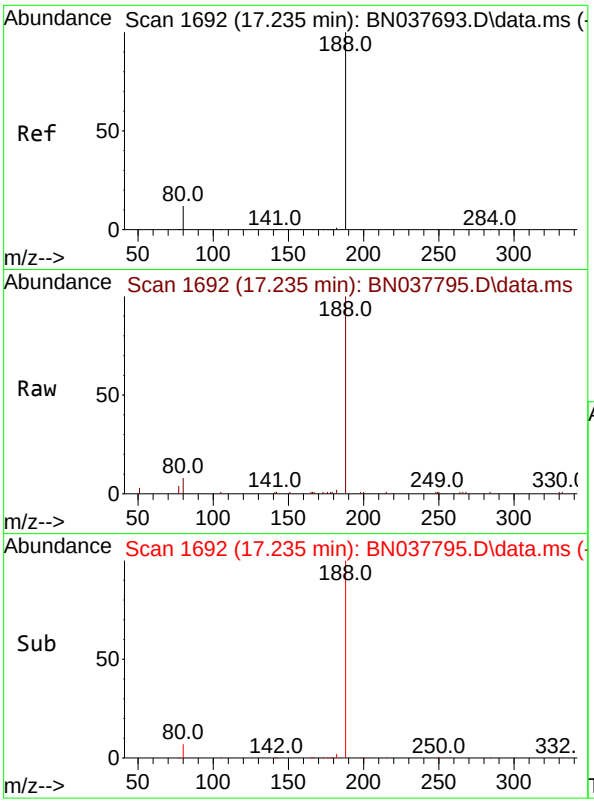




#18
Fluorene
Concen: 0.369 ng
RT: 15.535 min Scan# 1555
Delta R.T. 0.000 min
Lab File: BN037795.D
Acq: 19 Sep 2025 02:47

Tgt Ion:166 Resp: 11958

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 166 | 100 | | |
| 165 | 100.3 | 79.6 | 119.4 |
| 167 | 13.3 | 10.6 | 16.0 |



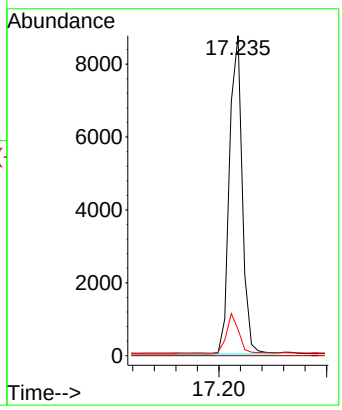


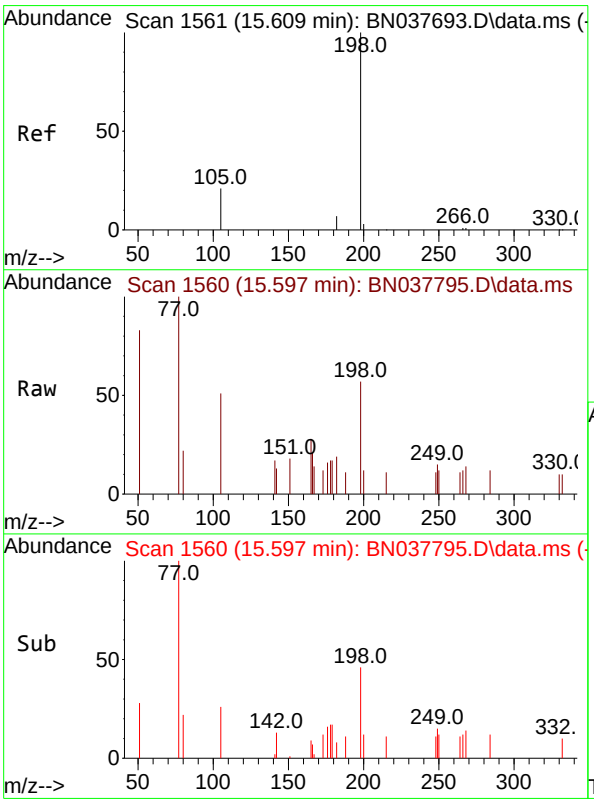

#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.235 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN037795.D
Acq: 19 Sep 2025 02:47

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4

Tgt Ion:188 Resp: 14380

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 188 | 100 | | |
| 94 | 0.0 | 0.0 | 0.0 |
| 80 | 8.3 | 10.6 | 15.8# |

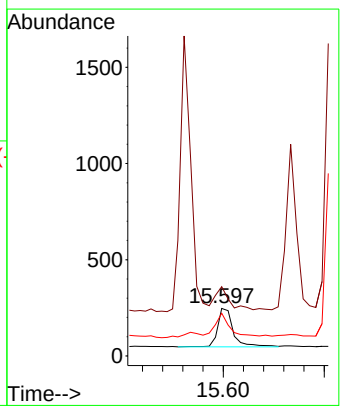


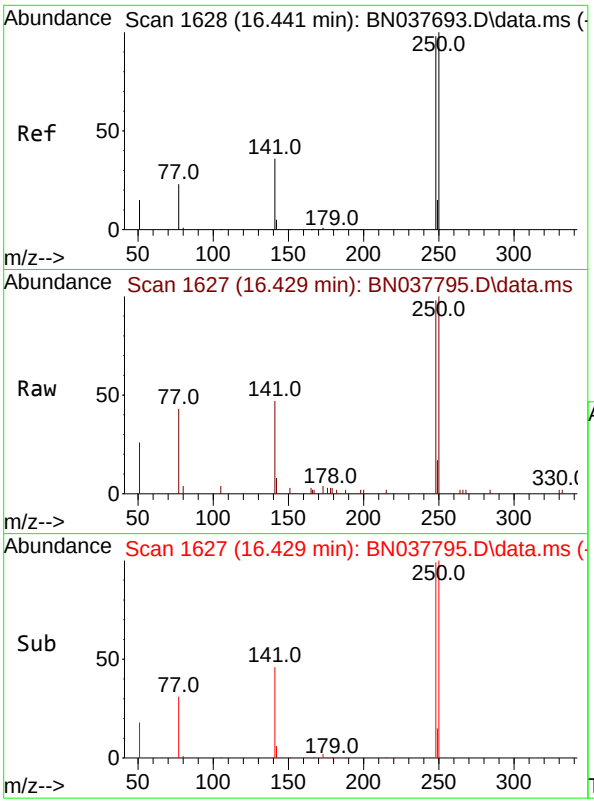




#20
4,6-Dinitro-2-methylphenol
Concen: 0.323 ng
RT: 15.597 min Scan# 1560
Delta R.T. -0.012 min
Lab File: BN037795.D
Acq: 19 Sep 2025 02:47

Tgt Ion:198 Resp: 430

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 198 | 100 | | |
| 51 | 145.7 | 95.1 | 142.7# |
| 105 | 89.9 | 53.8 | 80.6# |



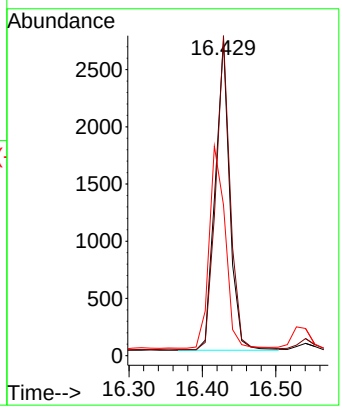


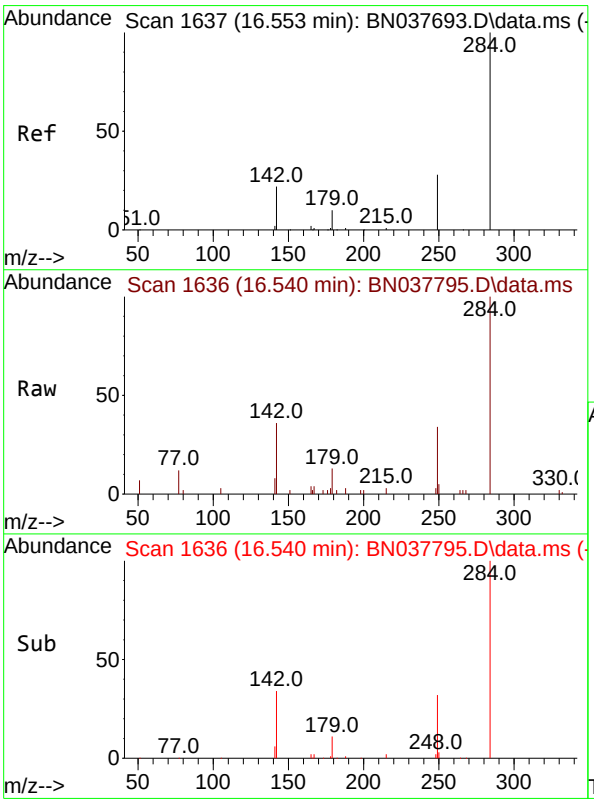

#21
4-Bromophenyl-phenylether
Concen: 0.397 ng
RT: 16.429 min Scan# 1
Delta R.T. -0.012 min
Lab File: BN037795.D
Acq: 19 Sep 2025 02:47

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4

Tgt Ion:248 Resp: 3726

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 248 | 100 | | |
| 250 | 101.6 | 81.5 | 122.3 |
| 141 | 47.8 | 30.8 | 46.2# |

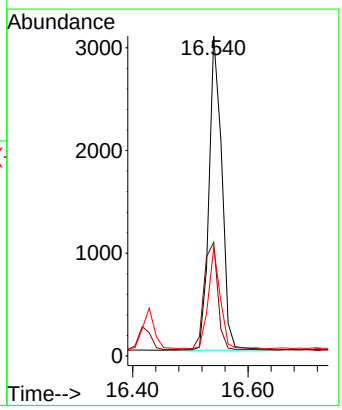


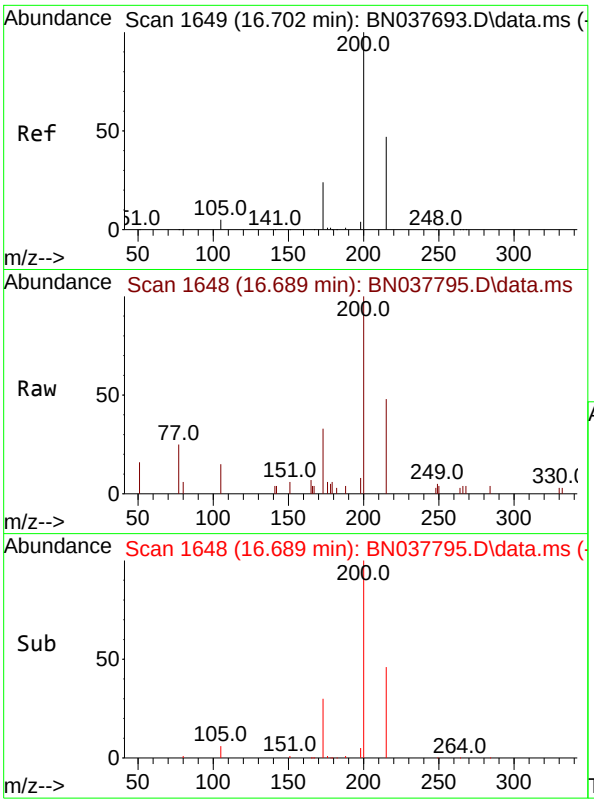




#22
Hexachlorobenzene
Concen: 0.435 ng
RT: 16.540 min Scan# 1636
Delta R.T. -0.012 min
Lab File: BN037795.D
Acq: 19 Sep 2025 02:47

Tgt Ion:284 Resp: 4695

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 284 | 100 | | |
| 142 | 37.2 | 30.9 | 46.3 |
| 249 | 30.1 | 24.8 | 37.2 |



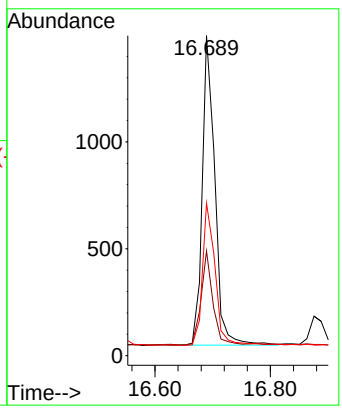


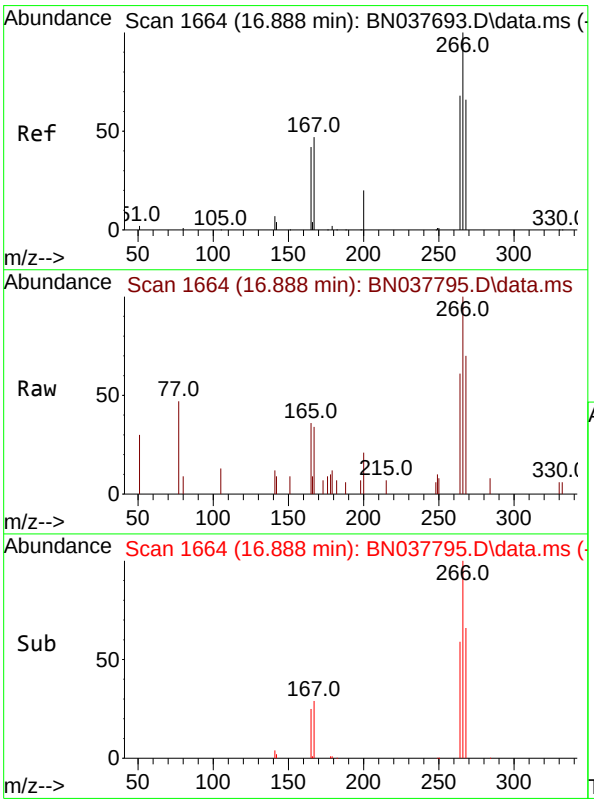

#23
Atrazine
Concen: 0.368 ng
RT: 16.689 min Scan# 1
Delta R.T. -0.012 min
Lab File: BN037795.D
Acq: 19 Sep 2025 02:47

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4

Tgt Ion:200 Resp: 2195

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 200 | 100 | | |
| 173 | 32.7 | 21.4 | 32.2# |
| 215 | 47.6 | 39.2 | 58.8 |

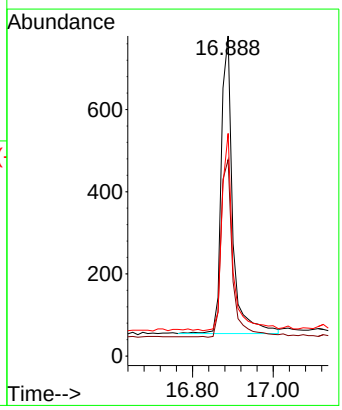


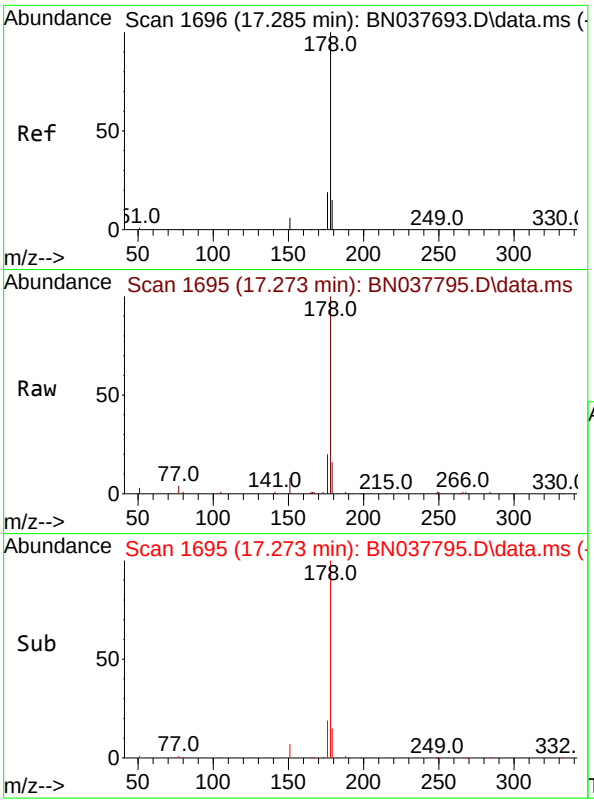




#24
Pentachlorophenol
Concen: 0.452 ng
RT: 16.888 min Scan# 1664
Delta R.T. 0.000 min
Lab File: BN037795.D
Acq: 19 Sep 2025 02:47

Tgt Ion:266 Resp: 1416

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 266 | 100 | | |
| 264 | 61.1 | 51.6 | 77.4 |
| 268 | 64.3 | 53.2 | 79.8 |



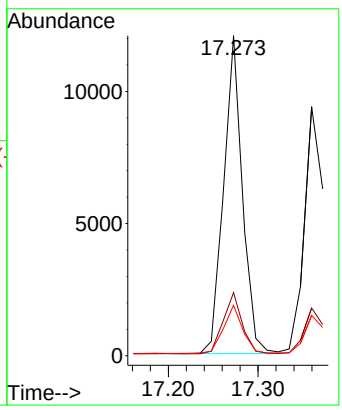


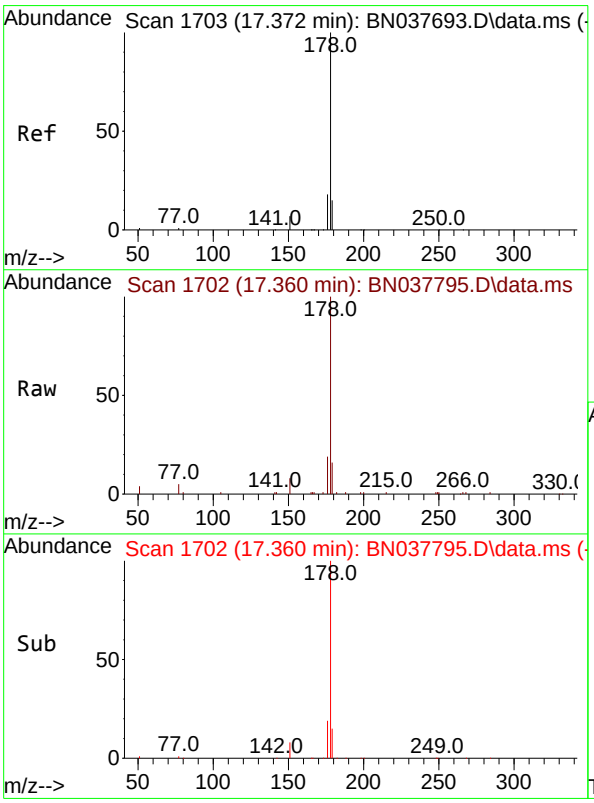

#25
Phenanthrene
Concen: 0.387 ng
RT: 17.273 min Scan# 1
Delta R.T. -0.012 min
Lab File: BN037795.D
Acq: 19 Sep 2025 02:47

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4

Tgt Ion:178 Resp: 17514

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 178 | 100 | | |
| 176 | 19.3 | 15.3 | 22.9 |
| 179 | 15.6 | 12.2 | 18.2 |

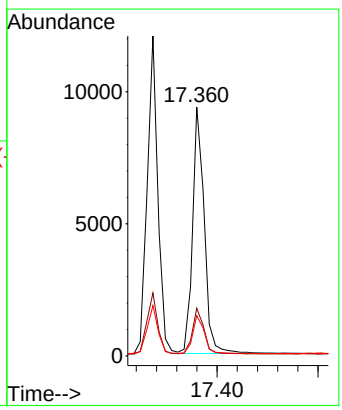


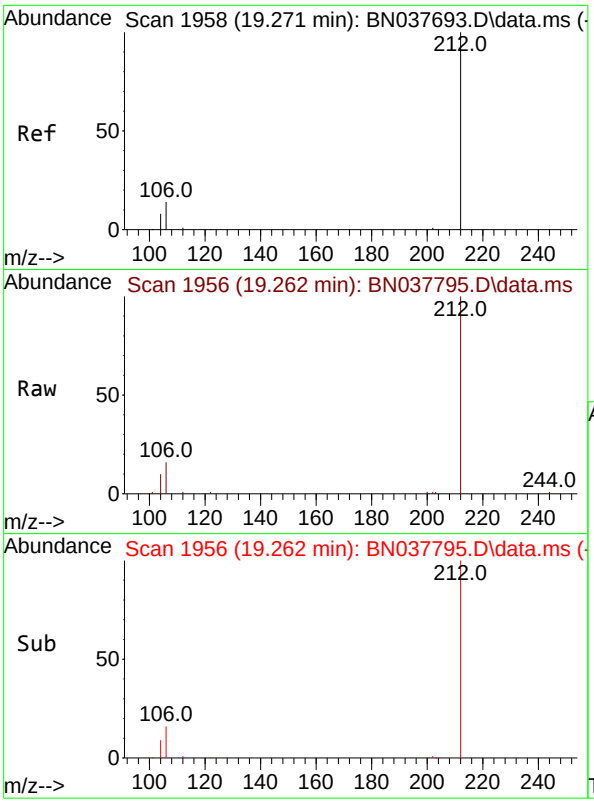




#26
Anthracene
Concen: 0.374 ng
RT: 17.360 min Scan# 1702
Delta R.T. -0.012 min
Lab File: BN037795.D
Acq: 19 Sep 2025 02:47

Tgt Ion:178 Resp: 14982

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 178 | 100 | | |
| 176 | 18.5 | 14.6 | 22.0 |
| 179 | 15.3 | 12.2 | 18.4 |



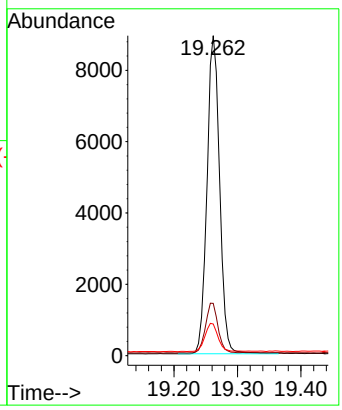


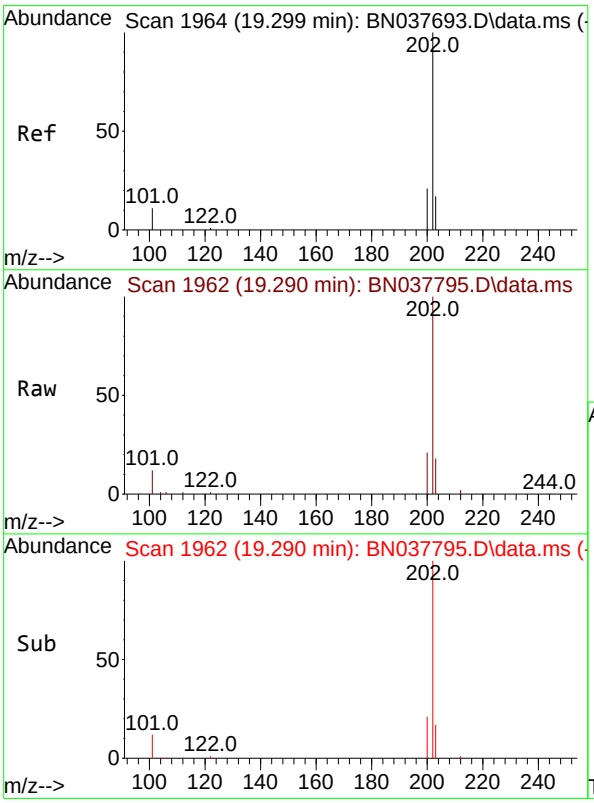

#27
Fluoranthene-d10
Concen: 0.342 ng
RT: 19.262 min Scan# 1
Delta R.T. -0.009 min
Lab File: BN037795.D
Acq: 19 Sep 2025 02:47

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4

Tgt Ion:212 Resp: 12337

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 212 | 100 | | |
| 106 | 15.5 | 12.2 | 18.2 |
| 104 | 9.0 | 6.9 | 10.3 |

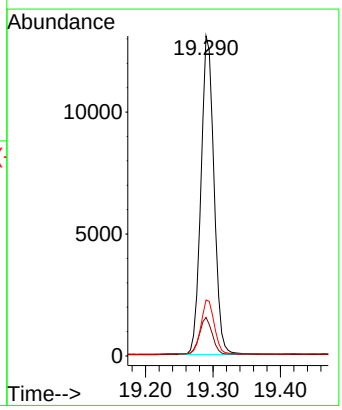


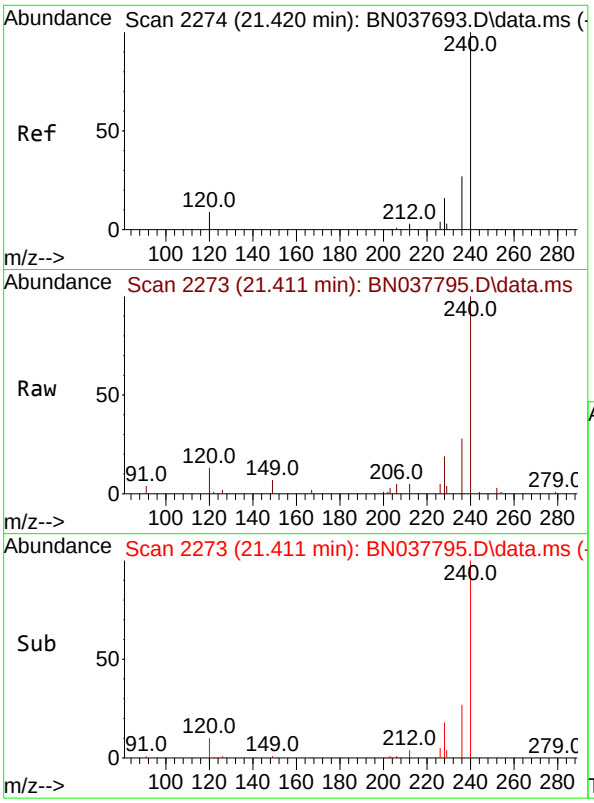




#28
Fluoranthene
Concen: 0.353 ng
RT: 19.290 min Scan# 1962
Delta R.T. -0.009 min
Lab File: BN037795.D
Acq: 19 Sep 2025 02:47

Tgt Ion:202 Resp: 17532

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 202 | 100 | | |
| 101 | 11.7 | 9.3 | 13.9 |
| 203 | 17.1 | 13.7 | 20.5 |



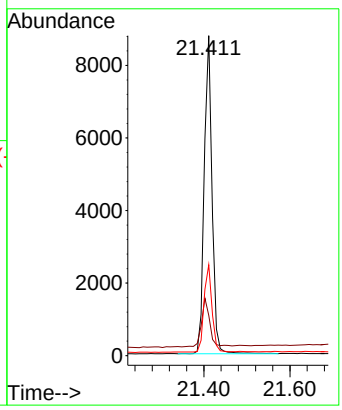


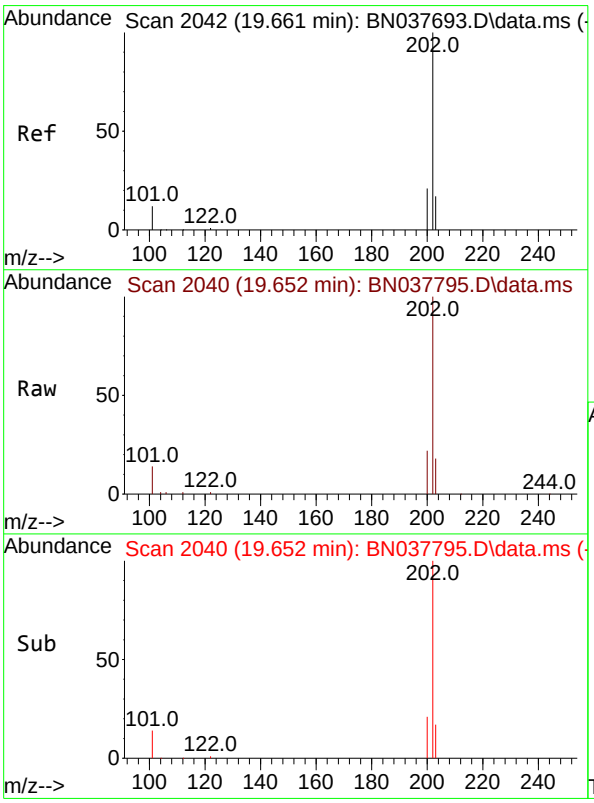

#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.411 min Scan# 2
Delta R.T. -0.009 min
Lab File: BN037795.D
Acq: 19 Sep 2025 02:47

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4

Tgt Ion:240 Resp: 11169

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 240 | 100 | | |
| 120 | 12.6 | 9.2 | 13.8 |
| 236 | 28.4 | 22.6 | 33.8 |

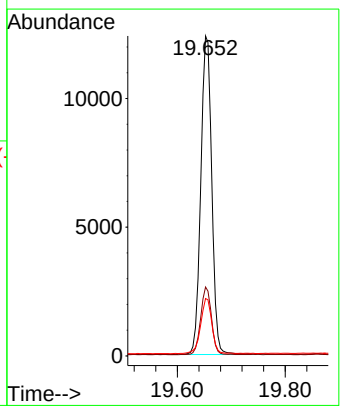


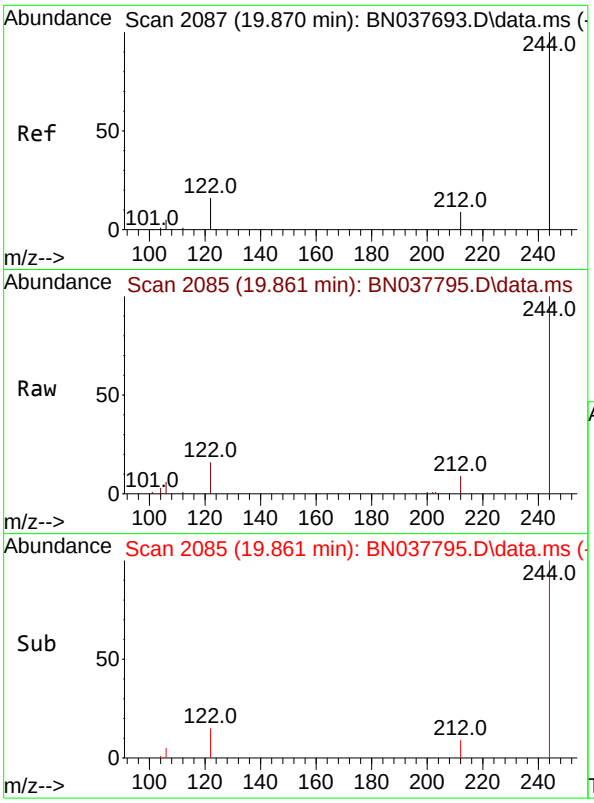




#30
Pyrene
Concen: 0.399 ng
RT: 19.652 min Scan# 2040
Delta R.T. -0.009 min
Lab File: BN037795.D
Acq: 19 Sep 2025 02:47

Tgt Ion:202 Resp: 17441

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 202 | 100 | | |
| 200 | 20.9 | 16.8 | 25.2 |
| 203 | 17.6 | 14.3 | 21.5 |



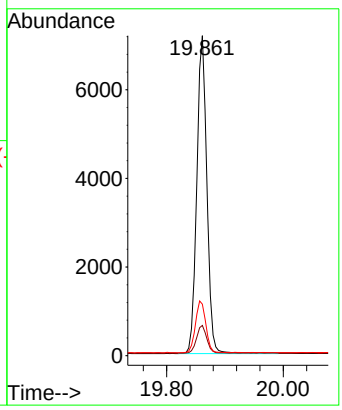


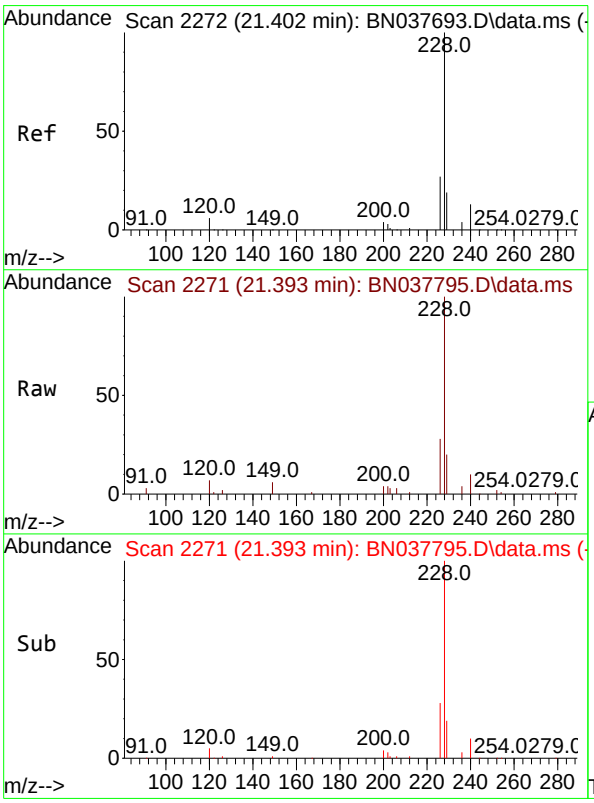

#31
Terphenyl-d14
Concen: 0.380 ng
RT: 19.861 min Scan# 2
Delta R.T. -0.009 min
Lab File: BN037795.D
Acq: 19 Sep 2025 02:47

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4

Tgt Ion:244 Resp: 8607

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 244 | 100 | | |
| 212 | 9.4 | 7.5 | 11.3 |
| 122 | 16.1 | 13.2 | 19.8 |

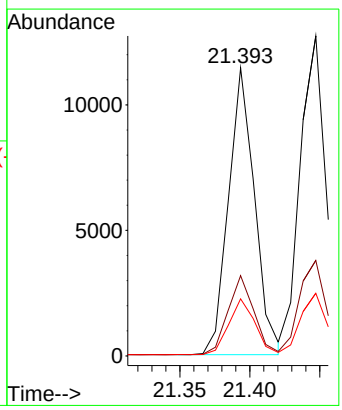


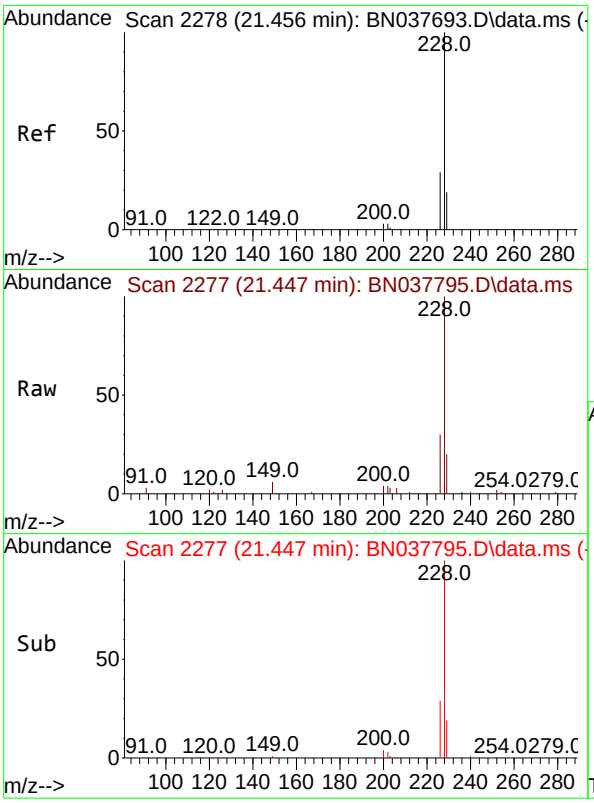




#32
Benzo(a)anthracene
Concen: 0.381 ng
RT: 21.393 min Scan# 2271
Delta R.T. -0.009 min
Lab File: BN037795.D
Acq: 19 Sep 2025 02:47

Tgt Ion:228 Resp: 14838

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 228 | 100 | | |
| 226 | 27.9 | 22.2 | 33.2 |
| 229 | 19.8 | 15.8 | 23.6 |



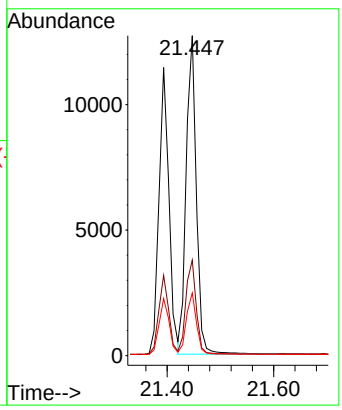


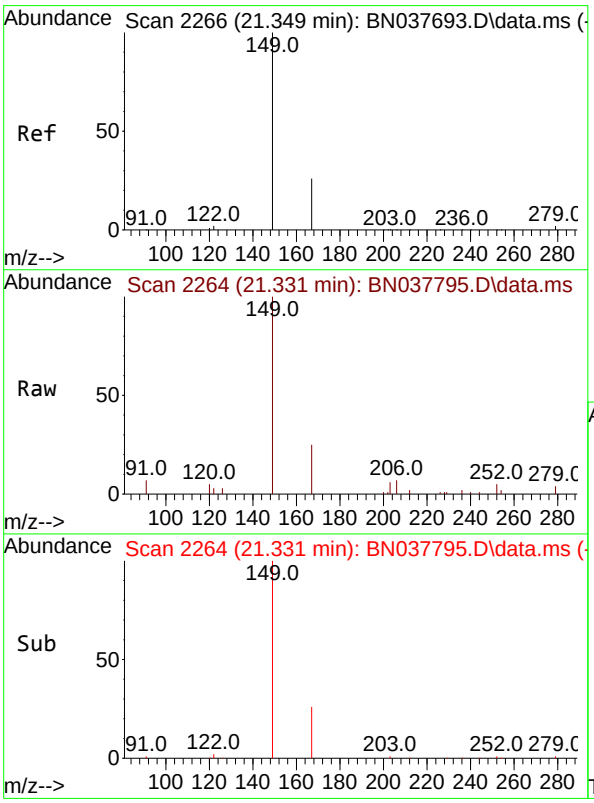

#33
Chrysene
Concen: 0.401 ng
RT: 21.447 min Scan# 2
Delta R.T. -0.009 min
Lab File: BN037795.D
Acq: 19 Sep 2025 02:47

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4

Tgt Ion:228 Resp: 16770

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 228 | 100 | | |
| 226 | 29.8 | 23.5 | 35.3 |
| 229 | 19.6 | 15.9 | 23.9 |

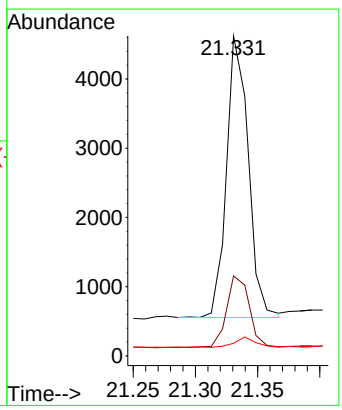


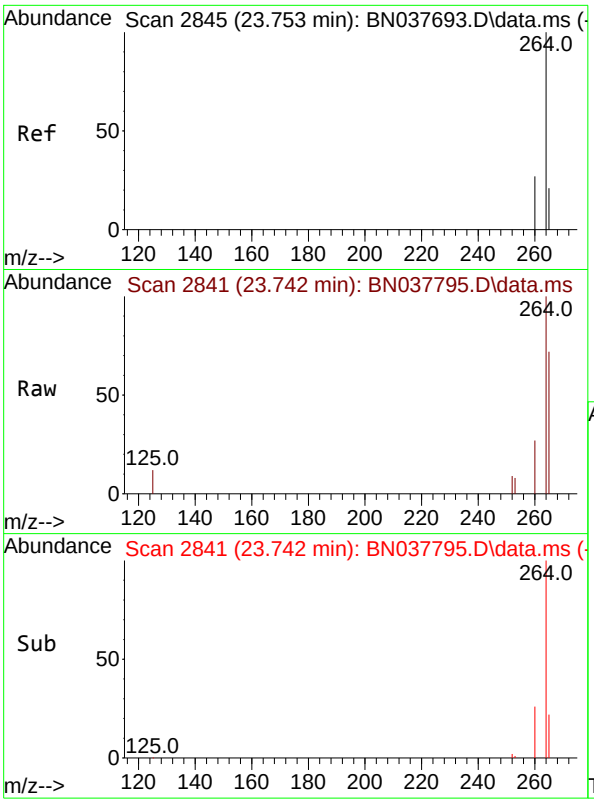




#34
Bis(2-ethylhexyl)phthalate
Concen: 0.428 ng
RT: 21.331 min Scan# 2264
Delta R.T. -0.018 min
Lab File: BN037795.D
Acq: 19 Sep 2025 02:47

Tgt Ion:149 Resp: 4946

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 149 | 100 | | |
| 167 | 26.7 | 20.8 | 31.2 |
| 279 | 4.1 | 3.3 | 4.9 |



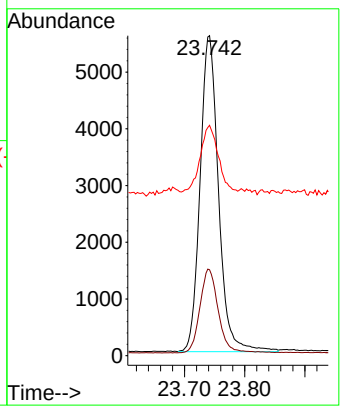


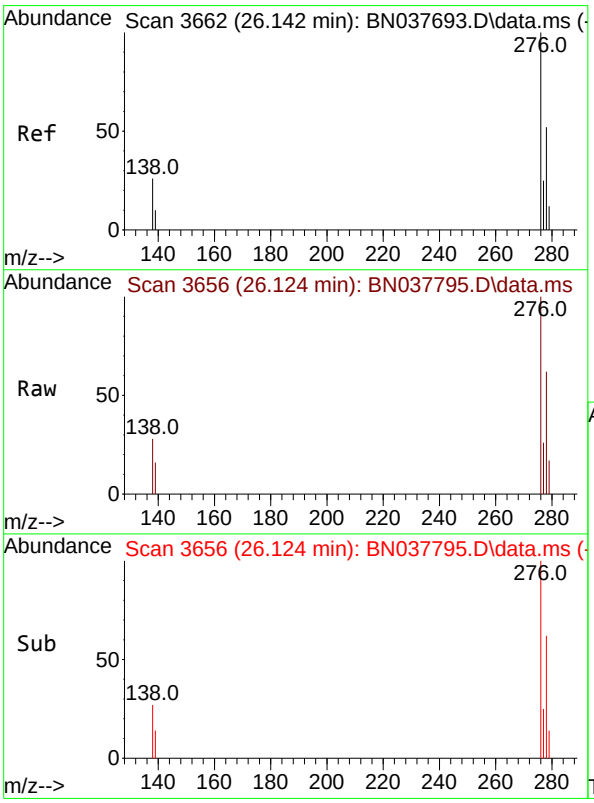

#35
Perylene-d12
Concen: 0.400 ng
RT: 23.742 min Scan# 2
Delta R.T. -0.012 min
Lab File: BN037795.D
Acq: 19 Sep 2025 02:47

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4

Tgt Ion:264 Resp: 11840

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 264 | 100 | | |
| 260 | 26.8 | 21.8 | 32.8 |
| 265 | 72.0 | 39.4 | 59.2# |

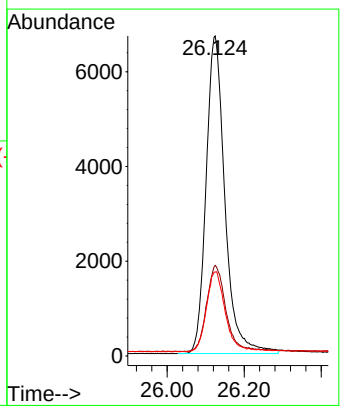


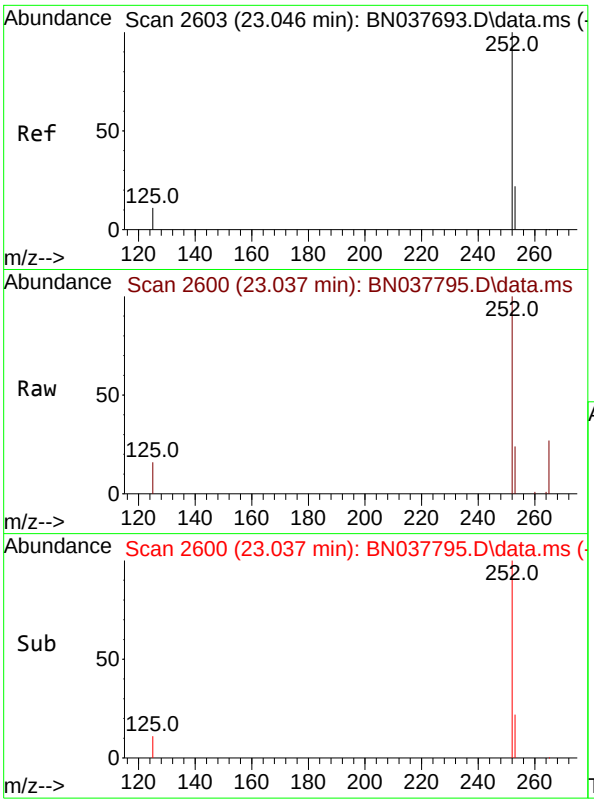




#36
Indeno(1,2,3-cd)pyrene
Concen: 0.457 ng
RT: 26.124 min Scan# 3656
Delta R.T. -0.018 min
Lab File: BN037795.D
Acq: 19 Sep 2025 02:47

Tgt Ion:276 Resp: 22723

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 276 | 100 | | |
| 138 | 27.5 | 21.9 | 32.9 |
| 277 | 24.7 | 20.1 | 30.1 |



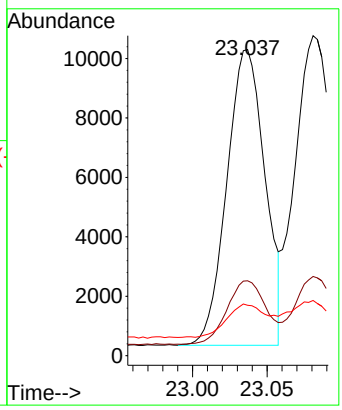


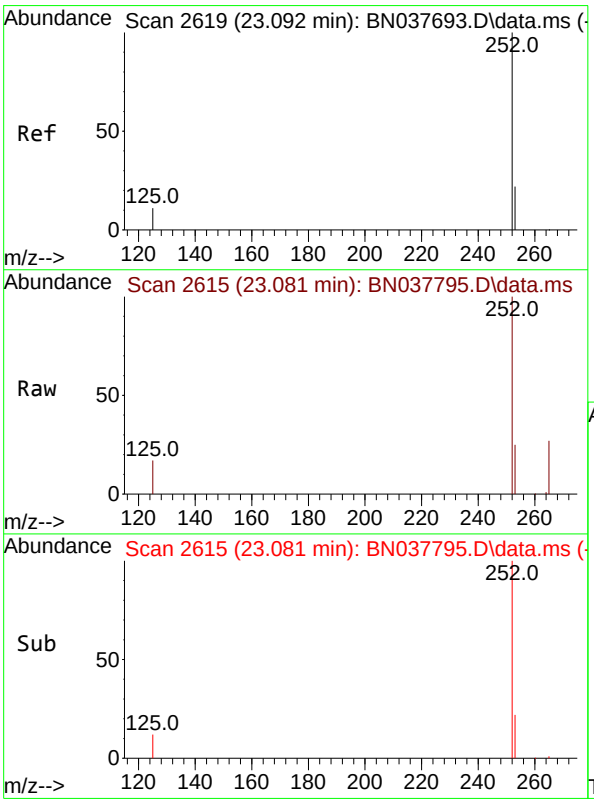

#37
Benzo(b)fluoranthene
Concen: 0.380 ng
RT: 23.037 min Scan# 2
Delta R.T. -0.009 min
Lab File: BN037795.D
Acq: 19 Sep 2025 02:47

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4

Tgt Ion:252 Resp: 17698

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 24.5 | 19.4 | 29.2 |
| 125 | 16.5 | 11.2 | 16.8 |

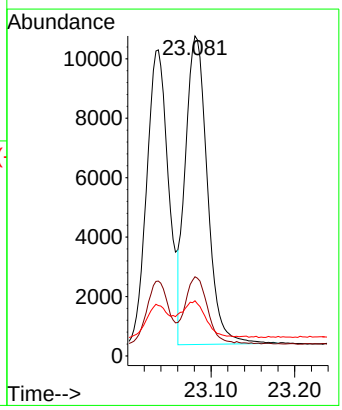


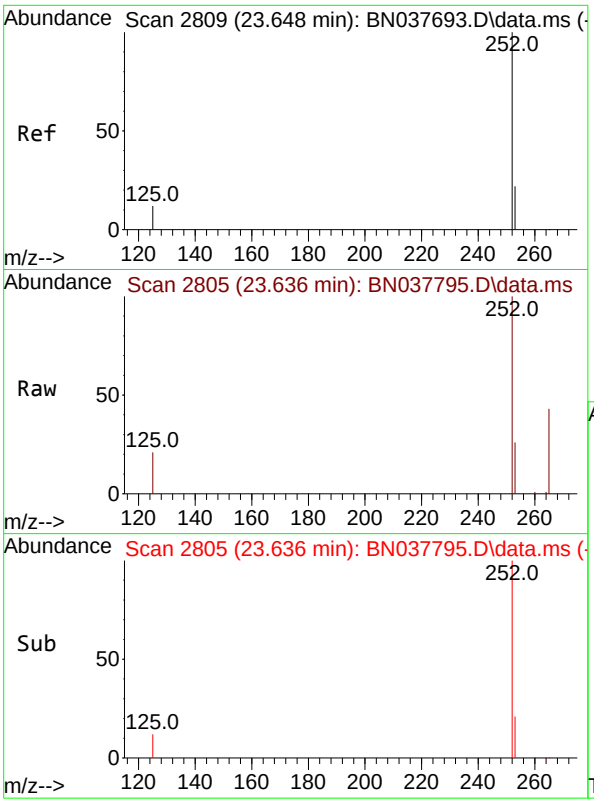




#38
Benzo(k)fluoranthene
Concen: 0.399 ng
RT: 23.081 min Scan# 2615
Delta R.T. -0.012 min
Lab File: BN037795.D
Acq: 19 Sep 2025 02:47

Tgt Ion:252 Resp: 18956

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 24.7 | 19.4 | 29.0 |
| 125 | 17.3 | 11.6 | 17.4 |



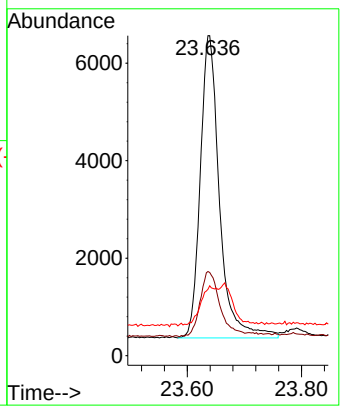


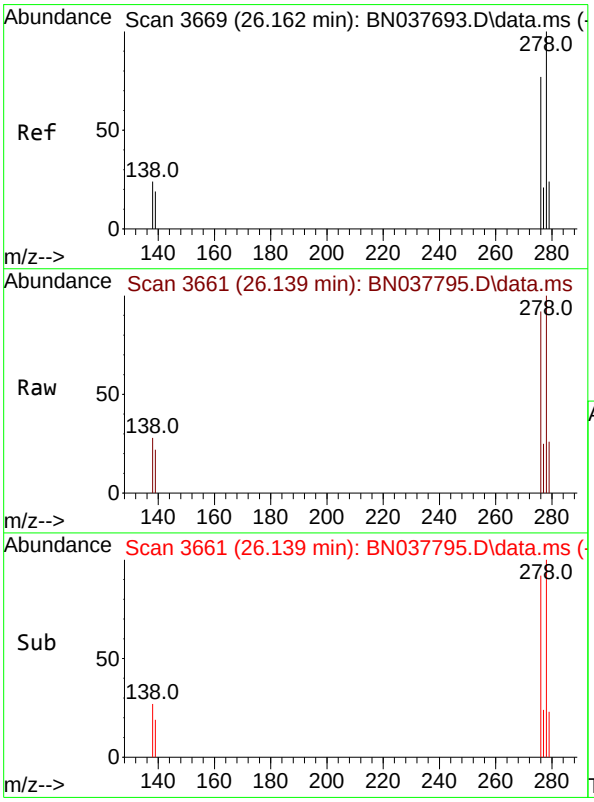

#39
Benzo(a)pyrene
Concen: 0.388 ng
RT: 23.636 min Scan# 2
Delta R.T. -0.012 min
Lab File: BN037795.D
Acq: 19 Sep 2025 02:47

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4

Tgt Ion:252 Resp: 14490

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 26.3 | 20.8 | 31.2 |
| 125 | 20.7 | 13.9 | 20.9 |

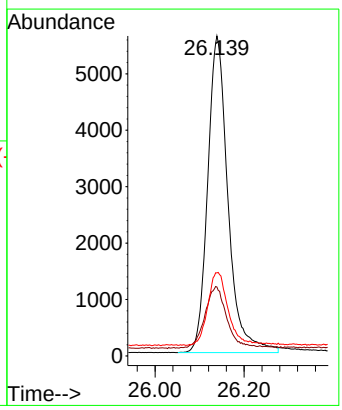


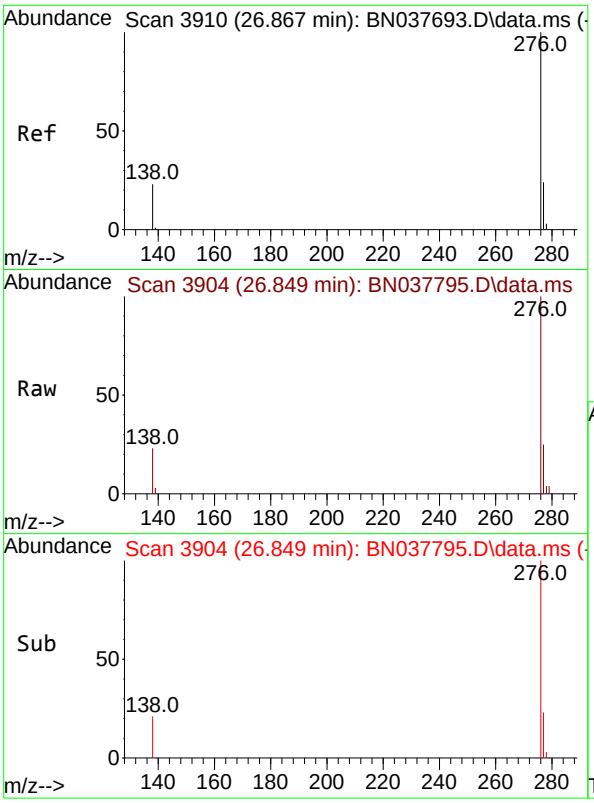




#40
Dibenzo(a,h)anthracene
Concen: 0.448 ng
RT: 26.139 min Scan# 3661
Delta R.T. -0.023 min
Lab File: BN037795.D
Acq: 19 Sep 2025 02:47

Tgt Ion:278 Resp: 17796

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 278 | 100 | | |
| 139 | 21.5 | 17.8 | 26.6 |
| 279 | 26.0 | 22.0 | 33.0 |



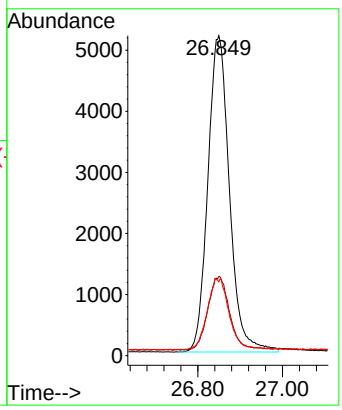



#41
Benzo(g,h,i)perylene
Concen: 0.412 ng
RT: 26.849 min Scan# 3
Delta R.T. -0.018 min
Lab File: BN037795.D
Acq: 19 Sep 2025 02:47

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4

Tgt Ion:276 Resp: 18357

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 276 | 100 | | |
| 277 | 24.8 | 20.6 | 31.0 |
| 138 | 23.1 | 20.2 | 30.2 |



Evaluate Continuing Calibration Report

Sample Results: **BN037795.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN091825\
Data File : BN037795.D
Acq On : 19 Sep 2025 02:47
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 20 Sample Multiplier: 1

**Instrument :**
BNA_N
**LabSampleId :**
SSTDCCC0.4

Quant Time: Sep 19 04:13:46 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN091125.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Sep 11 14:20:01 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 | 155# | 0.00 |
| 2 | | 1,4-Dioxane | 0.417 | 0.391 | 6.2 | 143 | 0.00 |
| 3 | | n-Nitrosodimethylamine | 0.544 | 0.497 | 8.6 | 136 | 0.00 |
| 4 | S | 2-Fluorophenol | 0.918 | 0.830 | 9.6 | 144 | 0.00 |
| 5 | S | Phenol-d6 | 1.191 | 1.152 | 3.3 | 154# | 0.00 |
| 6 | | bis(2-Chloroethyl)ether | 1.064 | 1.072 | -0.8 | 155# | 0.00 |
| 7 | I | Naphthalene-d8 | 1.000 | 1.000 | 0.0 | 146 | -0.01 |
| 8 | S | Nitrobenzene-d5 | 0.293 | 0.308 | -5.1 | 158# | -0.01 |
| 9 | | Naphthalene | 1.093 | 1.065 | 2.6 | 145 | -0.01 |
| 10 | | Hexachlorobutadiene | 0.198 | 0.196 | 1.0 | 145 | -0.01 |
| 11 | SURR | 2-Methylnaphthalene-d10 | 0.530 | 0.490 | 7.5 | 144 | -0.02 |
| 12 | | 2-Methylnaphthalene | 0.676 | 0.647 | 4.3 | 144 | -0.01 |
| 13 | I | Acenaphthene-d10 | 1.000 | 1.000 | 0.0 | 139 | -0.01 |
| 14 | S | 2,4,6-Tribromophenol | 0.104 | 0.120 | -15.4 | 165# | -0.01 |
| 15 | S | 2-Fluorobiphenyl | 1.673 | 1.696 | -1.4 | 143 | -0.01 |
| 16 | | Acenaphthylene | 1.834 | 1.738 | 5.2 | 135 | 0.00 |
| 17 | | Acenaphthene | 1.240 | 1.205 | 2.8 | 138 | -0.01 |
| 18 | | Fluorene | 1.502 | 1.387 | 7.7 | 134 | 0.00 |
| 19 | I | Phenanthrene-d10 | 1.000 | 1.000 | 0.0 | 128 | 0.00 |
| 20 | | 4,6-Dinitro-2-methylphenol | 0.037 | 0.030 | 18.9 | 116 | -0.01 |
| 21 | | 4-Bromophenyl-phenylether | 0.261 | 0.259 | 0.8 | 132 | -0.01 |
| 22 | | Hexachlorobenzene | 0.300 | 0.326 | -8.7 | 142 | -0.01 |
| 23 | | Atrazine | 0.166 | 0.153 | 7.8 | 129 | -0.01 |
| 24 | | Pentachlorophenol | 0.087 | 0.098 | -12.6 | 169# | 0.00 |
| 25 | | Phenanthrene | 1.259 | 1.218 | 3.3 | 127 | -0.01 |
| 26 | | Anthracene | 1.116 | 1.042 | 6.6 | 124 | -0.01 |
| 27 | SURR | Fluoranthene-d10 | 1.004 | 0.858 | 14.5 | 117 | 0.00 |
| 28 | | Fluoranthene | 1.381 | 1.219 | 11.7 | 119 | 0.00 |
| 29 | I | Chrysene-d12 | 1.000 | 1.000 | 0.0 | 119 | 0.00 |
| 30 | | Pyrene | 1.566 | 1.562 | 0.3 | 120 | 0.00 |
| 31 | S | Terphenyl-d14 | 0.812 | 0.771 | 5.0 | 115 | 0.00 |
| 32 | | Benzo(a)anthracene | 1.395 | 1.328 | 4.8 | 118 | 0.00 |
| 33 | | Chrysene | 1.496 | 1.501 | -0.3 | 120 | 0.00 |
| 34 | | Bis(2-ethylhexyl)phthalate | 0.414 | 0.443 | -7.0 | 141 | -0.02 |
| 35 | I | Perylene-d12 | 1.000 | 1.000 | 0.0 | 132 | -0.01 |
| 36 | | Indeno(1,2,3-cd)pyrene | 1.681 | 1.919 | -14.2 | 164# | -0.02 |
| 37 | | Benzo(b)fluoranthene | 1.575 | 1.495 | 5.1 | 127 | 0.00 |
| 38 | | Benzo(k)fluoranthene | 1.606 | 1.601 | 0.3 | 139 | -0.01 |
| 39 | C | Benzo(a)pyrene | 1.261 | 1.224 | 2.9 | 135 | -0.01 |
| 40 | | Dibenzo(a,h)anthracene | 1.342 | 1.503 | -12.0 | 164# | -0.02 |
| 41 | | Benzo(g,h,i)perylene | 1.506 | 1.550 | -2.9 | 141 | -0.02 |

(#) = Out of Range SPCC's out = 0 CCC's out = 0

**Instrument :**
BNA_N
**LabSampleId :**
SSTDCCC0.4

Sample Results: **BN037795.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN091825\
Data File : BN037795.D
Acq On : 19 Sep 2025 02:47
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 20 Sample Multiplier: 1

**Instrument :**
BNA_N
**LabSampleId :**
SSTDCCC0.4

Quant Time: Sep 19 04:13:46 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN091125.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Sep 11 14:20:01 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 | 155 | 0.00 |
| 2 | | 1,4-Dioxane | 0.400 | 0.376 | 6.0 | 143 | 0.00 |
| 3 | | n-Nitrosodimethylamine | 0.400 | 0.365 | 8.8 | 136 | 0.00 |
| 4 | S | 2-Fluorophenol | 0.400 | 0.362 | 9.5 | 144 | 0.00 |
| 5 | S | Phenol-d6 | 0.400 | 0.387 | 3.3 | 154 | 0.00 |
| 6 | | bis(2-Chloroethyl)ether | 0.400 | 0.403 | -0.8 | 155 | 0.00 |
| 7 | I | Naphthalene-d8 | 0.400 | 0.400 | 0.0 | 146 | -0.01 |
| 8 | S | Nitrobenzene-d5 | 0.400 | 0.421 | -5.2 | 158 | -0.01 |
| 9 | | Naphthalene | 0.400 | 0.390 | 2.5 | 145 | -0.01 |
| 10 | | Hexachlorobutadiene | 0.400 | 0.396 | 1.0 | 145 | -0.01 |
| 11 | SURR | 2-Methylnaphthalene-d10 | 0.400 | 0.370 | 7.5 | 144 | -0.02 |
| 12 | | 2-Methylnaphthalene | 0.400 | 0.383 | 4.3 | 144 | -0.01 |
| 13 | I | Acenaphthene-d10 | 0.400 | 0.400 | 0.0 | 139 | -0.01 |
| 14 | S | 2,4,6-Tribromophenol | 0.400 | 0.460 | -15.0 | 165 | -0.01 |
| 15 | S | 2-Fluorobiphenyl | 0.400 | 0.406 | -1.5 | 143 | -0.01 |
| 16 | | Acenaphthylene | 0.400 | 0.379 | 5.3 | 135 | 0.00 |
| 17 | | Acenaphthene | 0.400 | 0.389 | 2.8 | 138 | -0.01 |
| 18 | | Fluorene | 0.400 | 0.369 | 7.8 | 134 | 0.00 |
| 19 | I | Phenanthrene-d10 | 0.400 | 0.400 | 0.0 | 128 | 0.00 |
| 20 | | 4,6-Dinitro-2-methylphenol | 0.400 | 0.323 | 19.3 | 116 | -0.01 |
| 21 | | 4-Bromophenyl-phenylether | 0.400 | 0.397 | 0.8 | 132 | -0.01 |
| 22 | | Hexachlorobenzene | 0.400 | 0.435 | -8.7 | 142 | -0.01 |
| 23 | | Atrazine | 0.400 | 0.368 | 8.0 | 129 | -0.01 |
| 24 | | Pentachlorophenol | 0.400 | 0.452 | -13.0 | 169 | 0.00 |
| 25 | | Phenanthrene | 0.400 | 0.387 | 3.3 | 127 | -0.01 |
| 26 | | Anthracene | 0.400 | 0.374 | 6.5 | 124 | -0.01 |
| 27 | SURR | Fluoranthene-d10 | 0.400 | 0.342 | 14.5 | 117 | 0.00 |
| 28 | | Fluoranthene | 0.400 | 0.353 | 11.8 | 119 | 0.00 |
| 29 | I | Chrysene-d12 | 0.400 | 0.400 | 0.0 | 119 | 0.00 |
| 30 | | Pyrene | 0.400 | 0.399 | 0.3 | 120 | 0.00 |
| 31 | S | Terphenyl-d14 | 0.400 | 0.380 | 5.0 | 115 | 0.00 |
| 32 | | Benzo(a)anthracene | 0.400 | 0.381 | 4.8 | 118 | 0.00 |
| 33 | | Chrysene | 0.400 | 0.401 | -0.3 | 120 | 0.00 |
| 34 | | Bis(2-ethylhexyl)phthalate | 0.400 | 0.428 | -7.0 | 141 | -0.02 |
| 35 | I | Perylene-d12 | 0.400 | 0.400 | 0.0 | 132 | -0.01 |
| 36 | | Indeno(1,2,3-cd)pyrene | 0.400 | 0.457 | -14.2 | 164 | -0.02 |
| 37 | | Benzo(b)fluoranthene | 0.400 | 0.380 | 5.0 | 127 | 0.00 |
| 38 | | Benzo(k)fluoranthene | 0.400 | 0.399 | 0.3 | 139 | -0.01 |
| 39 | C | Benzo(a)pyrene | 0.400 | 0.388 | 3.0 | 135 | -0.01 |
| 40 | | Dibenzo(a,h)anthracene | 0.400 | 0.448 | -12.0 | 164 | -0.02 |
| 41 | | Benzo(g,h,i)perylene | 0.400 | 0.412 | -3.0 | 141 | -0.02 |

(#) = Out of Range SPCC's out = 0 CCC's out = 0

**Instrument :**
BNA_N
**LabSampleId :**
SSTDCCC0.4

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

7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: Alliance Contract: AECO15

Lab Code: ACE SDG No.: Q3095

Instrument ID: BNA_N Calibration Date/Time: 09/19/2025 13:03

Lab File ID: BN037811.D Init. Calib. Date(s): 09/11/2025 09/11/2025

EPA Sample No.: SSTDCCC0.4EC Init. Calib. Time(s): 09:56 13:33

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

| COMPOUND | RRF | RRF0.4 | MIN RRF | %D | MAX%D |
|---|---|---|---|---|---|
| 2-Methylnaphthalene-d10 | 0.530 | 0.497 | | -6.2 | 50.0 |
| Fluoranthene-d10 | 1.004 | 0.957 | | -4.7 | 50.0 |
| 2-Fluorophenol | 0.918 | 1.044 | | 13.7 | 50.0 |
| Phenol-d6 | 1.191 | 1.176 | | -1.3 | 50.0 |
| Nitrobenzene-d5 | 0.293 | 0.292 | | -0.3 | 50.0 |
| 2-Fluorobiphenyl | 1.673 | 1.615 | | -3.5 | 50.0 |
| 2,4,6-Tribromophenol | 0.104 | 0.131 | | 26.0 | 50.0 |
| Terphenyl-d14 | 0.812 | 0.765 | | -5.8 | 50.0 |
| 1,4-Dioxane | 0.417 | 0.424 | | 1.7 | 50.0 |

All other compounds must meet a minimum RRF of 0.010.

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN091825\
Data File : BN037811.D
Acq On : 19 Sep 2025 13:03
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 36 Sample Multiplier: 1

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4EC

Quant Time: Sep 19 13:27:51 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN091125.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Sep 11 14:20:01 2025
Response via : Initial Calibration

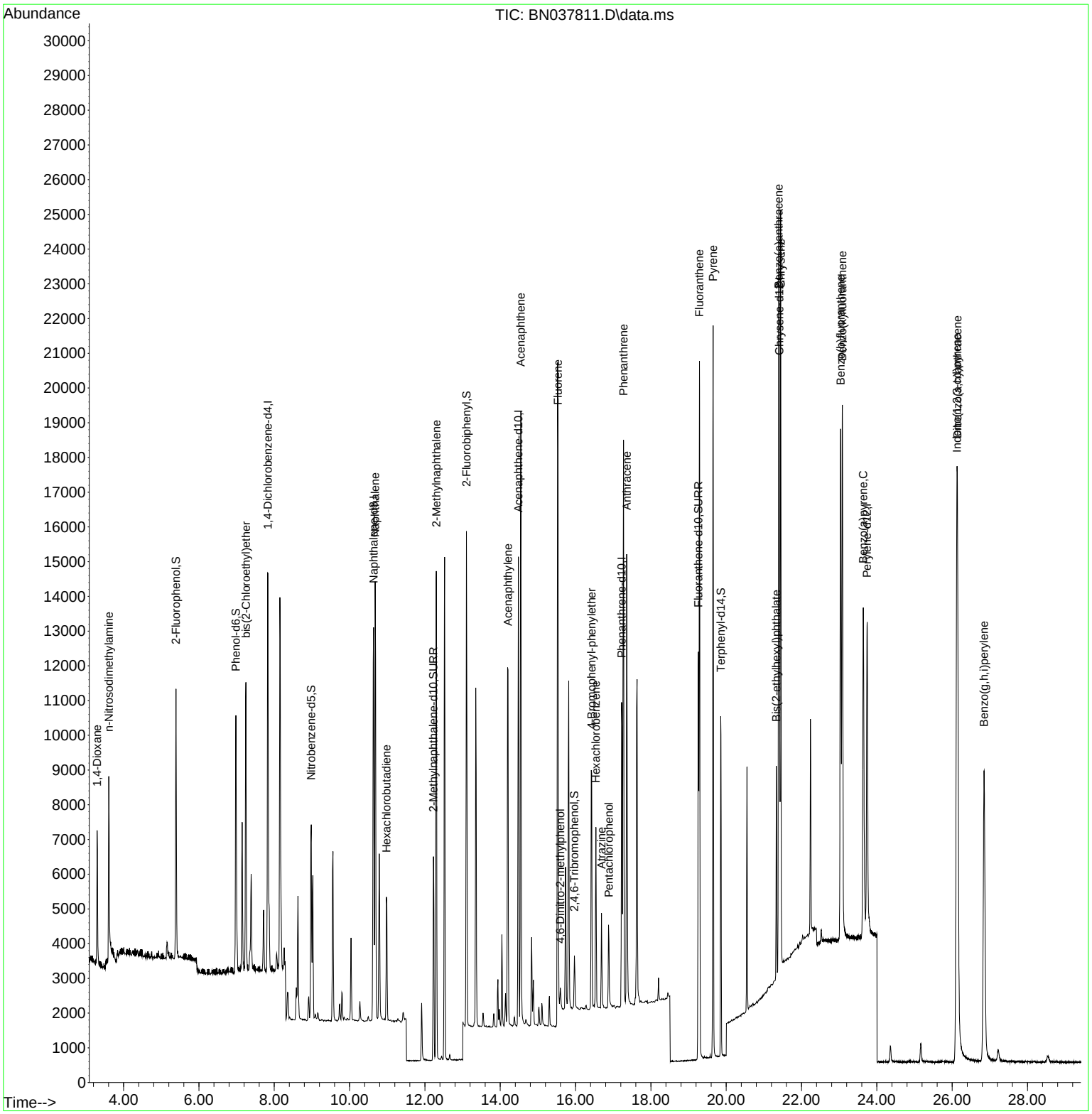
| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| Internal Standards | | | | | | | |
| 1) 1,4-Dichlorobenzene-d4 | 7.833 | 152 | 5811 | 0.400 | ng | | 0.00 |
| 7) Naphthalene-d8 | 10.637 | 136 | 15706 | 0.400 | ng | | #-0.01 |
| 13) Acenaphthene-d10 | 14.484 | 164 | 7363 | 0.400 | ng | | -0.01 |
| 19) Phenanthrene-d10 | 17.223 | 188 | 13521 | 0.400 | ng | | -0.01 |
| 29) Chrysene-d12 | 21.411 | 240 | 12361 | 0.400 | ng | | 0.00 |
| 35) Perylene-d12 | 23.741 | 264 | 12915 | 0.400 | ng | | #-0.01 |
| System Monitoring Compounds | | | | | | | |
| 4) 2-Fluorophenol | 5.392 | 112 | 6068 | 0.455 | ng | | 0.00 |
| 5) Phenol-d6 | 6.980 | 99 | 6833 | 0.395 | ng | | 0.00 |
| 8) Nitrobenzene-d5 | 8.982 | 82 | 4585 | 0.399 | ng | | -0.01 |
| 11) 2-Methylnaphthalene-d10 | 12.227 | 152 | 7805 | 0.375 | ng | | -0.02 |
| 14) 2,4,6-Tribromophenol | 15.969 | 330 | 963 | 0.501 | ng | | -0.01 |
| 15) 2-Fluorobiphenyl | 13.105 | 172 | 11890 | 0.386 | ng | | -0.01 |
| 27) Fluoranthene-d10 | 19.262 | 212 | 12937 | 0.381 | ng | | 0.00 |
| 31) Terphenyl-d14 | 19.856 | 244 | 9455 | 0.377 | ng | | -0.01 |
| Target Compounds | | | | | | | Qvalue |
| 2) 1,4-Dioxane | 3.297 | 88 | 2462 | 0.407 | ng | | 95 |
| 3) n-Nitrosodimethylamine | 3.608 | 42 | 3283 | 0.415 | ng | | 93 |
| 6) bis(2-Chloroethyl)ether | 7.248 | 93 | 6036 | 0.391 | ng | | 99 |
| 9) Naphthalene | 10.680 | 128 | 16766 | 0.391 | ng | | 100 |
| 10) Hexachlorobutadiene | 10.979 | 225 | 3007 | 0.387 | ng | # | 100 |
| 12) 2-Methylnaphthalene | 12.303 | 142 | 10188 | 0.384 | ng | | 99 |
| 16) Acenaphthylene | 14.206 | 152 | 12502 | 0.370 | ng | | 99 |
| 17) Acenaphthene | 14.548 | 154 | 8660 | 0.379 | ng | | 98 |
| 18) Fluorene | 15.535 | 166 | 10559 | 0.382 | ng | | 99 |
| 20) 4,6-Dinitro-2-methylph... | 15.597 | 198 | 416 | 0.332 | ng | # | 84 |
| 21) 4-Bromophenyl-phenylether | 16.429 | 248 | 3252 | 0.369 | ng | | 97 |
| 22) Hexachlorobenzene | 16.540 | 284 | 4063 | 0.401 | ng | | 99 |
| 23) Atrazine | 16.689 | 200 | 2102 | 0.375 | ng | | 95 |
| 24) Pentachlorophenol | 16.888 | 266 | 1388 | 0.471 | ng | | 93 |
| 25) Phenanthrene | 17.273 | 178 | 16630 | 0.391 | ng | | 100 |
| 26) Anthracene | 17.359 | 178 | 14242 | 0.378 | ng | | 100 |
| 28) Fluoranthene | 19.290 | 202 | 18266 | 0.391 | ng | | 100 |
| 30) Pyrene | 19.652 | 202 | 18234 | 0.377 | ng | | 100 |
| 32) Benzo(a)anthracene | 21.393 | 228 | 16344 | 0.379 | ng | | 100 |
| 33) Chrysene | 21.447 | 228 | 18321 | 0.396 | ng | | 99 |
| 34) Bis(2-ethylhexyl)phtha... | 21.331 | 149 | 5701 | 0.446 | ng | | 99 |
| 36) Indeno(1,2,3-cd)pyrene | 26.124 | 276 | 24237 | 0.447 | ng | | 100 |
| 37) Benzo(b)fluoranthene | 23.037 | 252 | 19797 | 0.389 | ng | | 98 |
| 38) Benzo(k)fluoranthene | 23.084 | 252 | 20862 | 0.402 | ng | | 99 |
| 39) Benzo(a)pyrene | 23.639 | 252 | 15816 | 0.388 | ng | | 97 |
| 40) Dibenzo(a,h)anthracene | 26.139 | 278 | 18950 | 0.437 | ng | | 97 |
| 41) Benzo(g,h,i)perylene | 26.846 | 276 | 18988 | 0.391 | ng | | 97 |

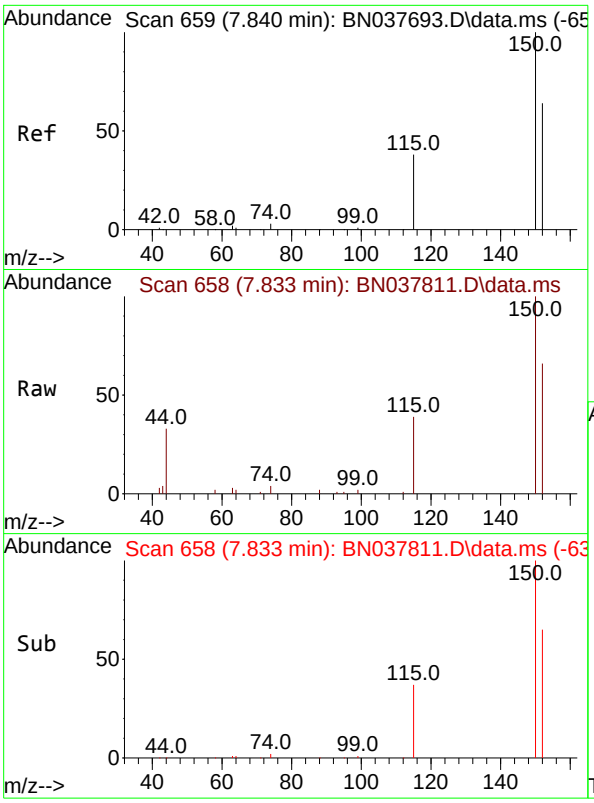
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN091825\
Data File : BN037811.D
Acq On : 19 Sep 2025 13:03
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 36 Sample Multiplier: 1

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4EC

Quant Time: Sep 19 13:27:51 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN091125.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Sep 11 14:20:01 2025
Response via : Initial Calibration



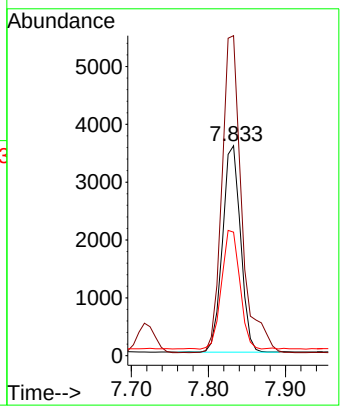


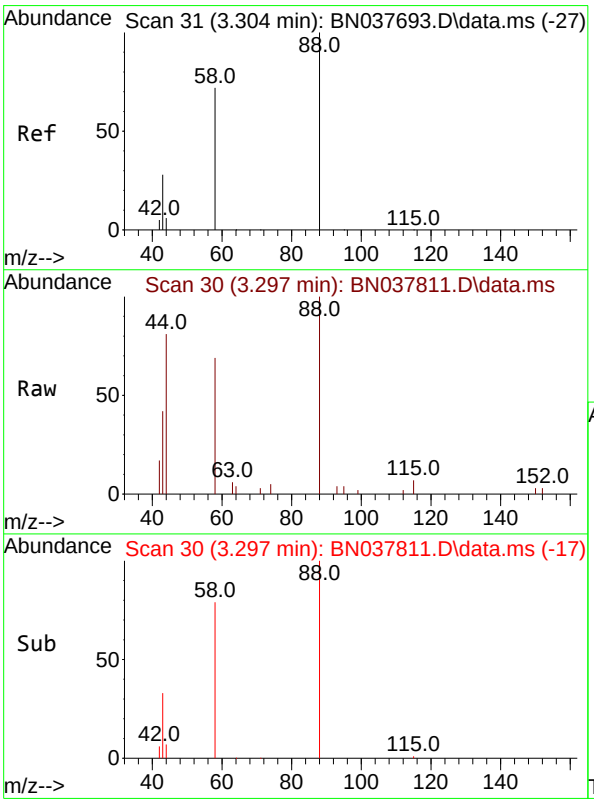

#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.833 min Scan# 6
Delta R.T. -0.007 min
Lab File: BN037811.D
Acq: 19 Sep 2025 13:03

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4EC

Tgt Ion:152 Resp: 5811

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 150 | 152.5 | 124.5 | 186.7 |
| 115 | 58.8 | 49.2 | 73.8 |

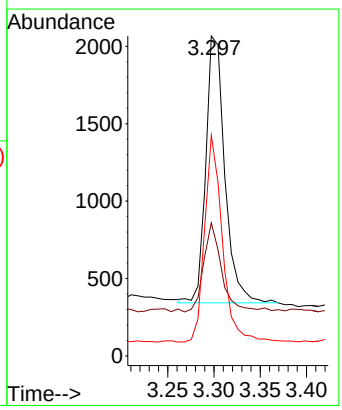


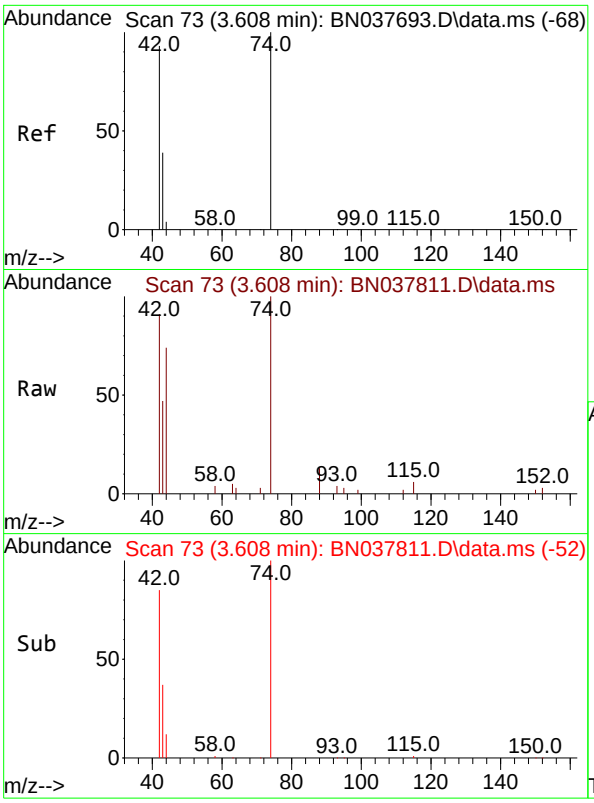




#2
1,4-Dioxane
Concen: 0.407 ng
RT: 3.297 min Scan# 30
Delta R.T. -0.007 min
Lab File: BN037811.D
Acq: 19 Sep 2025 13:03

Tgt Ion: 88 Resp: 2462

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 88 | 100 | | |
| 43 | 32.0 | 26.8 | 40.2 |
| 58 | 72.4 | 61.9 | 92.9 |



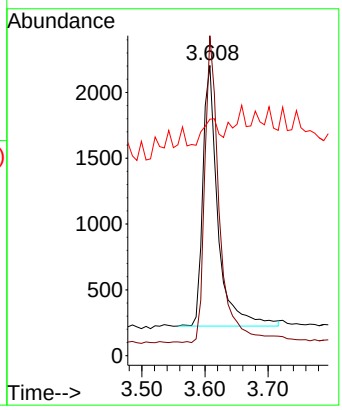


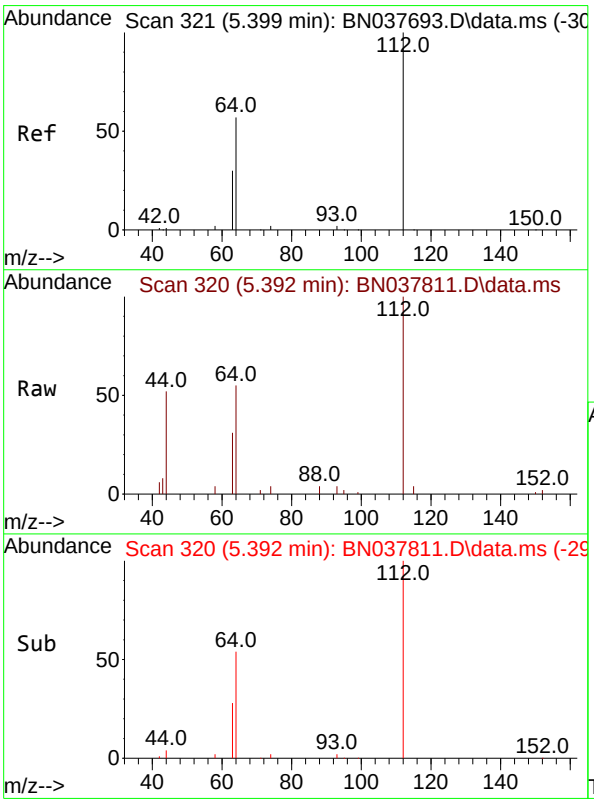

#3
n-Nitrosodimethylamine
Concen: 0.415 ng
RT: 3.608 min Scan# 7
Delta R.T. -0.000 min
Lab File: BN037811.D
Acq: 19 Sep 2025 13:03

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4EC

Tgt Ion: 42 Resp: 3283

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 42 | 100 | | |
| 74 | 115.6 | 86.0 | 129.0 |
| 44 | 10.4 | 8.4 | 12.6 |

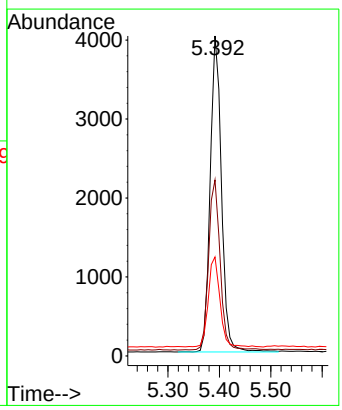


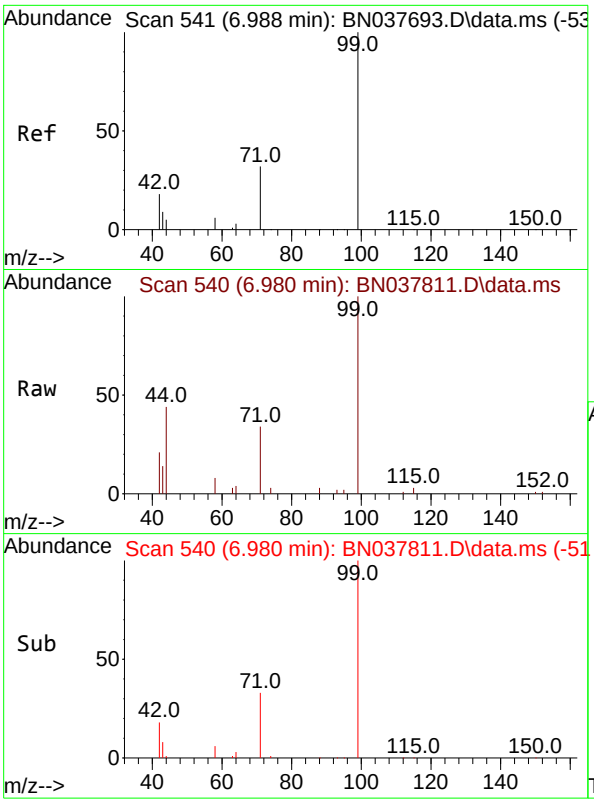




#4
2-Fluorophenol
Concen: 0.455 ng
RT: 5.392 min Scan# 320
Delta R.T. -0.007 min
Lab File: BN037811.D
Acq: 19 Sep 2025 13:03

Tgt Ion:112 Resp: 6068

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 112 | 100 | | |
| 64 | 54.8 | 44.9 | 67.3 |
| 63 | 29.3 | 24.7 | 37.1 |



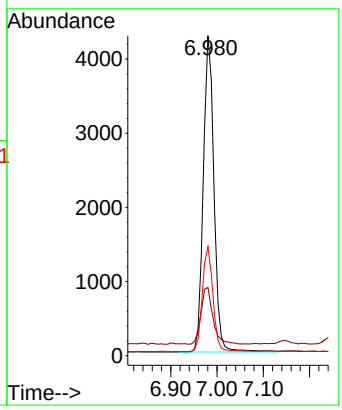


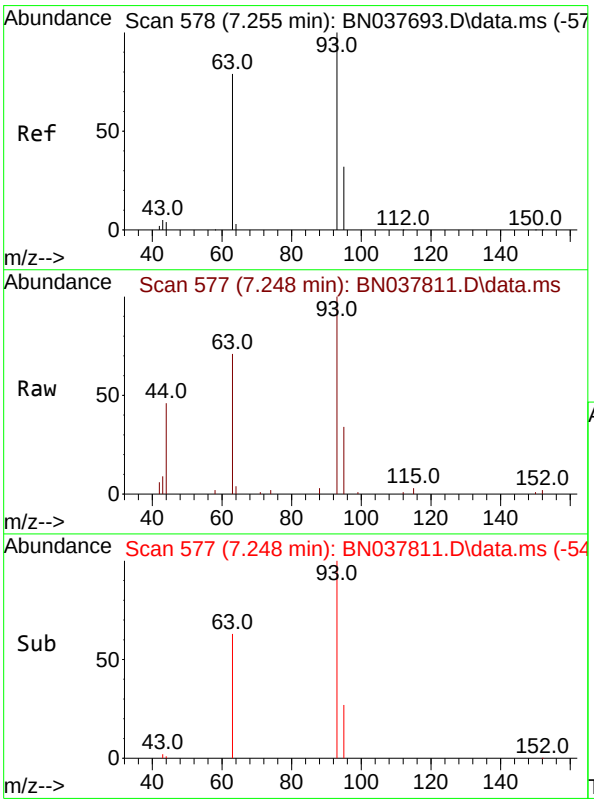

#5
Phenol-d6
Concen: 0.395 ng
RT: 6.980 min Scan# 54
Delta R.T. -0.007 min
Lab File: BN037811.D
Acq: 19 Sep 2025 13:03

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4EC

Tgt Ion: 99 Resp: 6833

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 99 | 100 | | |
| 42 | 20.0 | 16.6 | 24.8 |
| 71 | 33.2 | 26.7 | 40.1 |

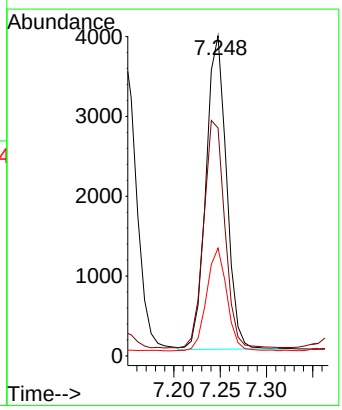


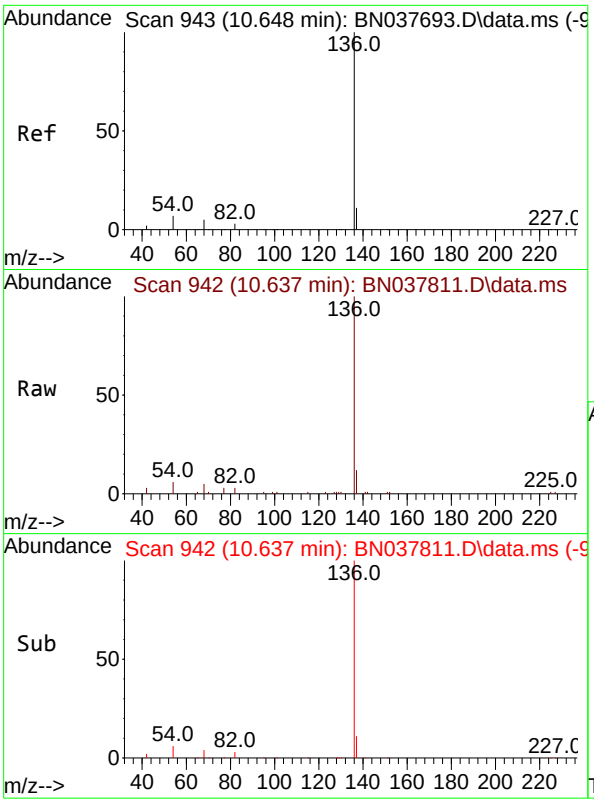




#6
bis(2-Chloroethyl)ether
Concen: 0.391 ng
RT: 7.248 min Scan# 577
Delta R.T. -0.007 min
Lab File: BN037811.D
Acq: 19 Sep 2025 13:03

Tgt Ion: 93 Resp: 6036

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 93 | 100 | | |
| 63 | 75.0 | 60.6 | 90.8 |
| 95 | 32.6 | 26.0 | 39.0 |



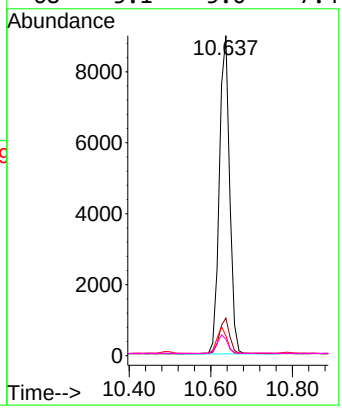


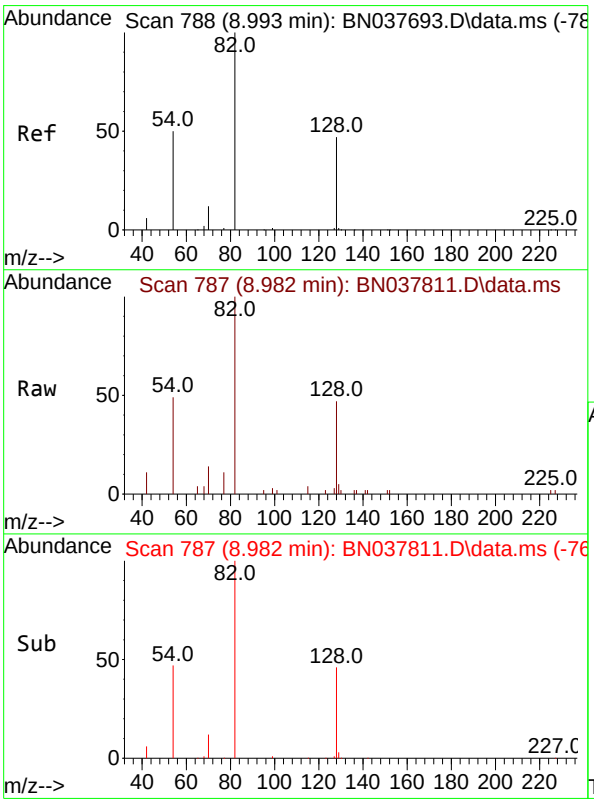

#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.637 min Scan# 94
Delta R.T. -0.011 min
Lab File: BN037811.D
Acq: 19 Sep 2025 13:03

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4EC

Tgt Ion:136 Resp: 15706

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 136 | 100 | | |
| 137 | 11.7 | 9.1 | 13.7 |
| 54 | 6.3 | 6.3 | 9.5# |
| 68 | 5.1 | 5.0 | 7.4 |

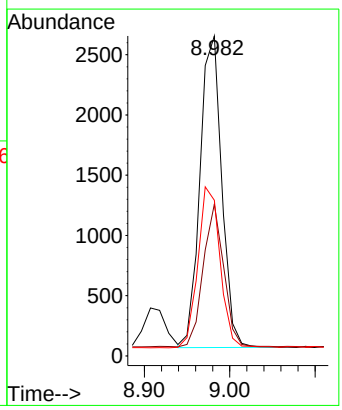


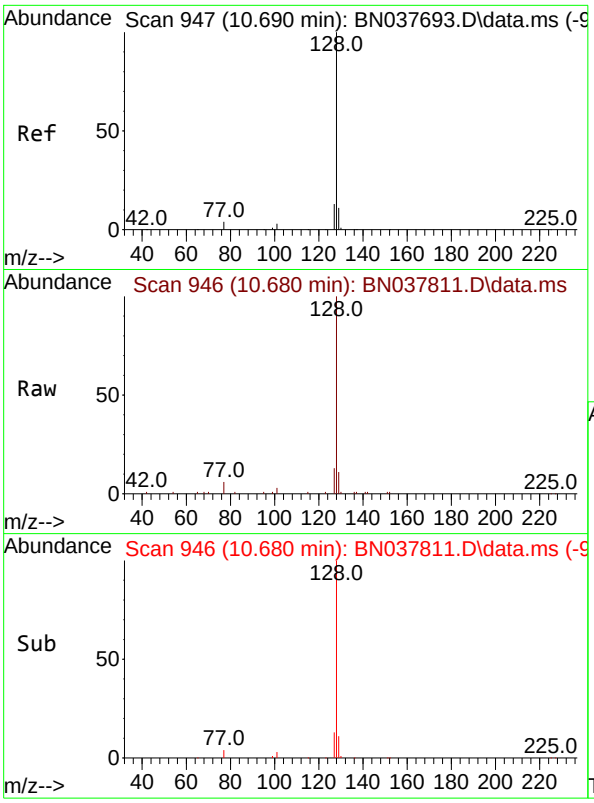




#8
Nitrobenzene-d5
Concen: 0.399 ng
RT: 8.982 min Scan# 787
Delta R.T. -0.011 min
Lab File: BN037811.D
Acq: 19 Sep 2025 13:03

Tgt Ion: 82 Resp: 4585

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 82 | 100 | | |
| 128 | 47.4 | 38.3 | 57.5 |
| 54 | 48.6 | 41.4 | 62.2 |



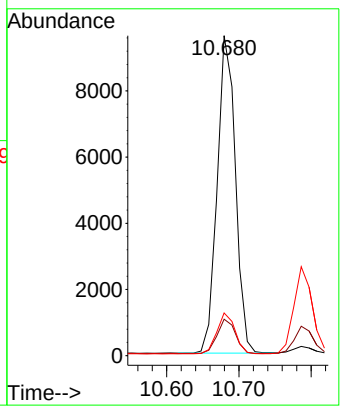


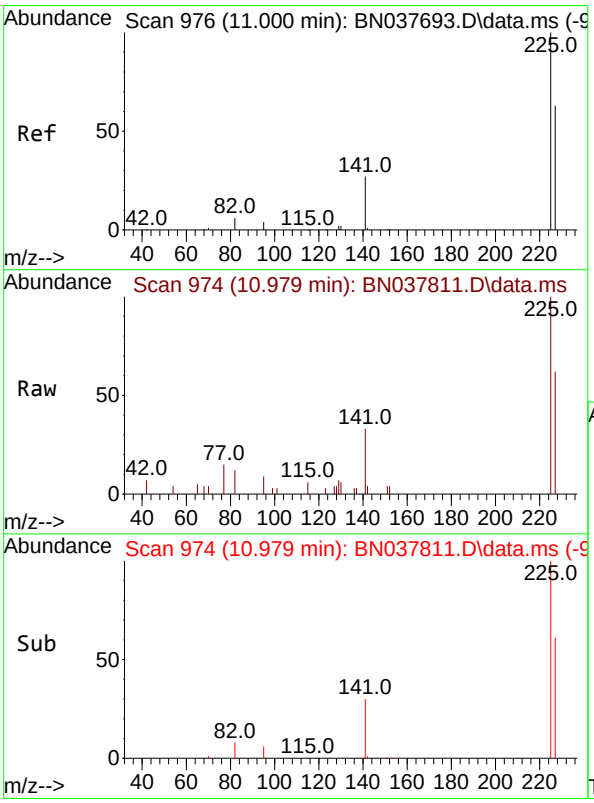

#9
Naphthalene
Concen: 0.391 ng
RT: 10.680 min Scan# 94
Delta R.T. -0.011 min
Lab File: BN037811.D
Acq: 19 Sep 2025 13:03

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4EC

Tgt Ion:128 Resp: 16766

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 128 | 100 | | |
| 129 | 11.4 | 9.1 | 13.7 |
| 127 | 13.4 | 10.9 | 16.3 |

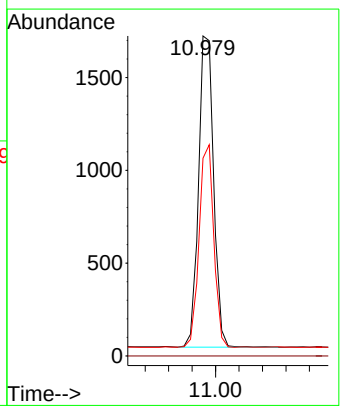


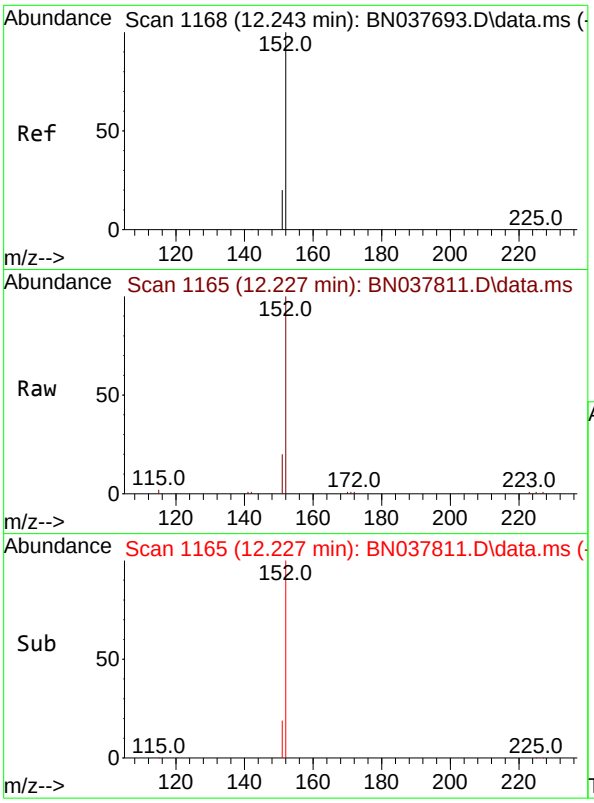




#10
Hexachlorobutadiene
Concen: 0.387 ng
RT: 10.979 min Scan# 974
Delta R.T. -0.021 min
Lab File: BN037811.D
Acq: 19 Sep 2025 13:03

Tgt Ion:225 Resp: 3007

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 225 | 100 | | |
| 223 | 0.0 | 0.0 | 0.0 |
| 227 | 63.4 | 50.9 | 76.3 |



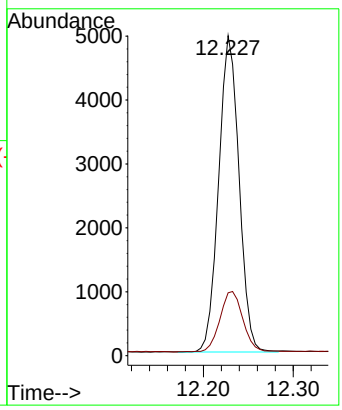


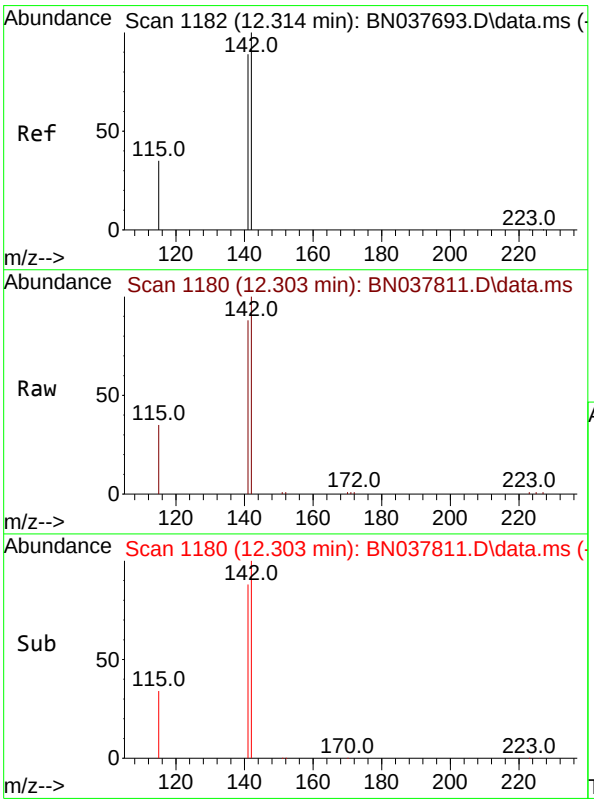

#11
2-Methylnaphthalene-d10
Concen: 0.375 ng
RT: 12.227 min Scan# 11
Delta R.T. -0.015 min
Lab File: BN037811.D
Acq: 19 Sep 2025 13:03

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4EC

Tgt Ion:152 Resp: 7805

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 151 | 21.7 | 17.0 | 25.6 |

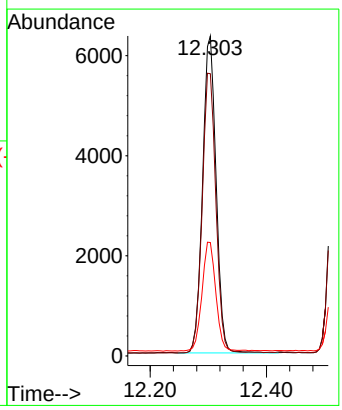


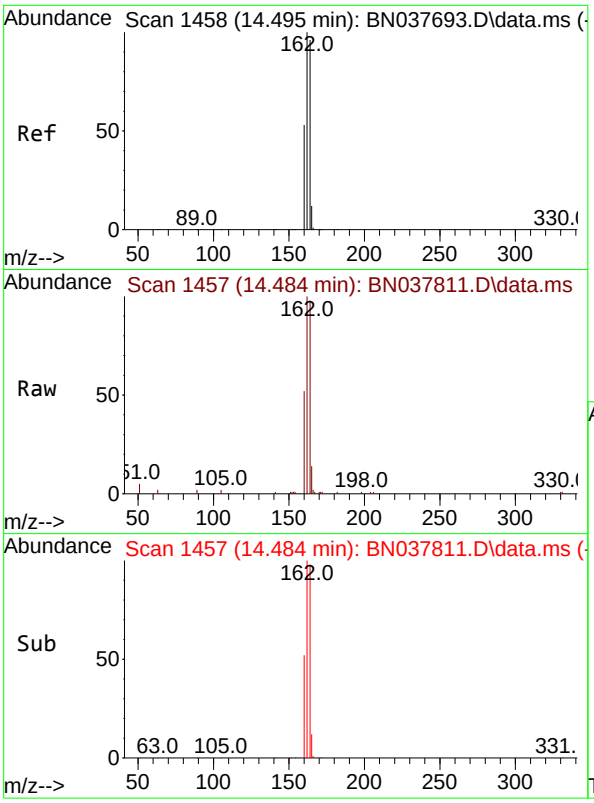




#12
2-Methylnaphthalene
Concen: 0.384 ng
RT: 12.303 min Scan# 1180
Delta R.T. -0.010 min
Lab File: BN037811.D
Acq: 19 Sep 2025 13:03

Tgt Ion:142 Resp: 10188

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 142 | 100 | | |
| 141 | 88.2 | 71.6 | 107.4 |
| 115 | 35.5 | 28.6 | 43.0 |



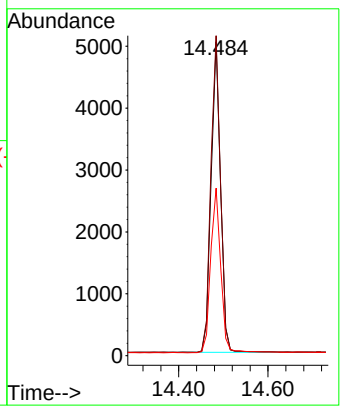


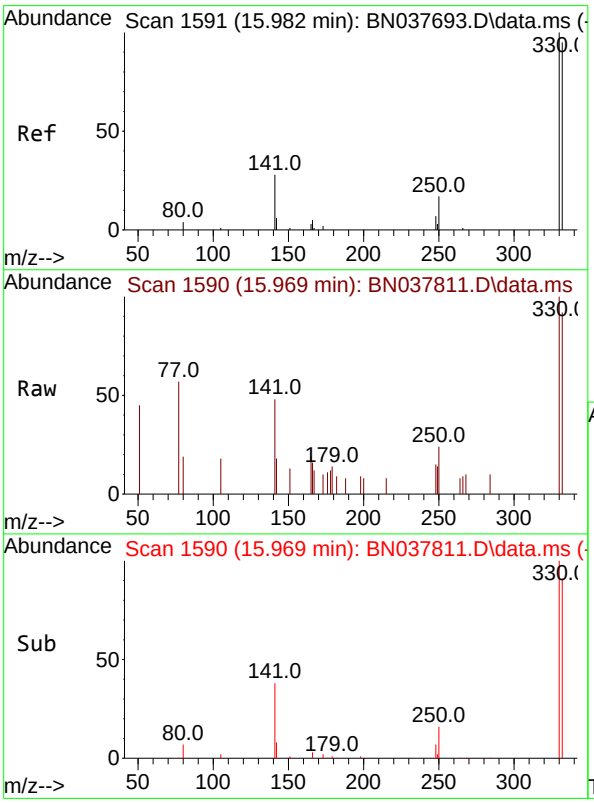

#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.484 min Scan# 14
Delta R.T. -0.011 min
Lab File: BN037811.D
Acq: 19 Sep 2025 13:03

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4EC

Tgt Ion:164 Resp: 7363

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 164 | 100 | | |
| 162 | 101.9 | 83.1 | 124.7 |
| 160 | 53.4 | 44.3 | 66.5 |

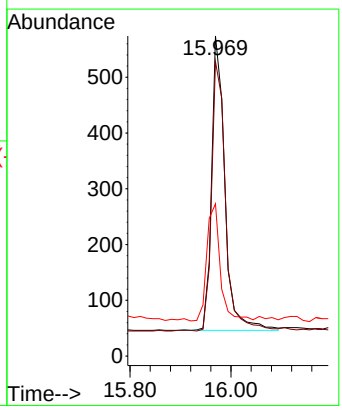


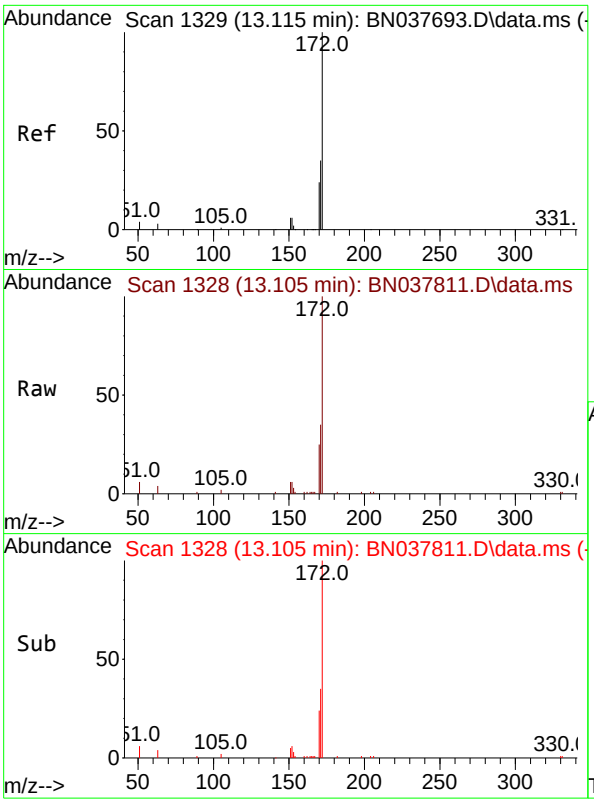




#14
2,4,6-Tribromophenol
Concen: 0.501 ng
RT: 15.969 min Scan# 1590
Delta R.T. -0.013 min
Lab File: BN037811.D
Acq: 19 Sep 2025 13:03

Tgt Ion:330 Resp: 963

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 330 | 100 | | |
| 332 | 96.7 | 75.3 | 112.9 |
| 141 | 40.4 | 35.0 | 52.4 |



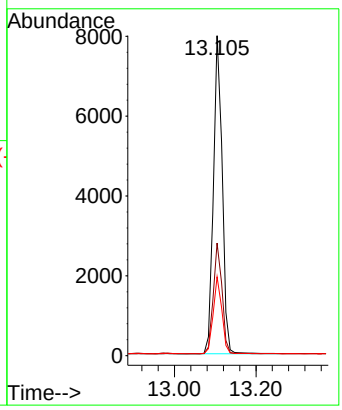


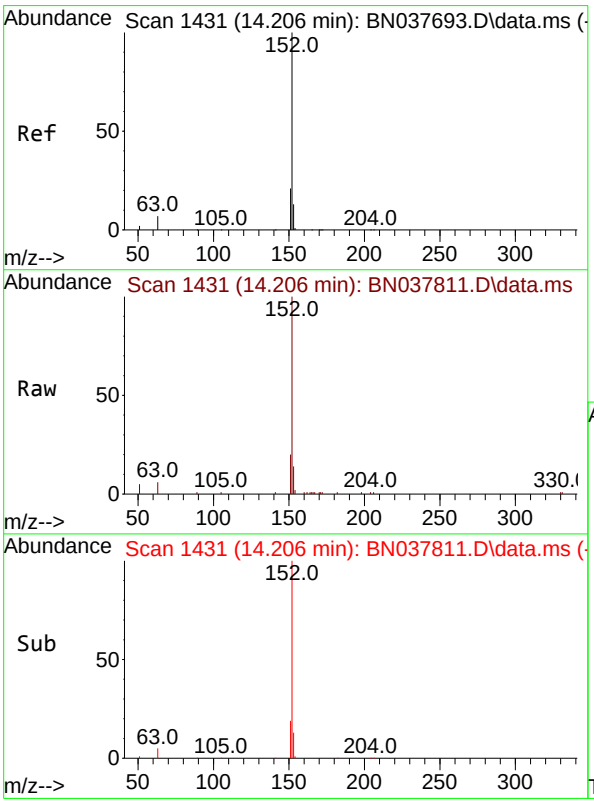

#15
2-Fluorobiphenyl
Concen: 0.386 ng
RT: 13.105 min Scan# 1
Delta R.T. -0.011 min
Lab File: BN037811.D
Acq: 19 Sep 2025 13:03

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4EC

Tgt Ion:172 Resp: 11890

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 172 | 100 | | |
| 171 | 35.2 | 28.6 | 43.0 |
| 170 | 24.6 | 19.8 | 29.8 |

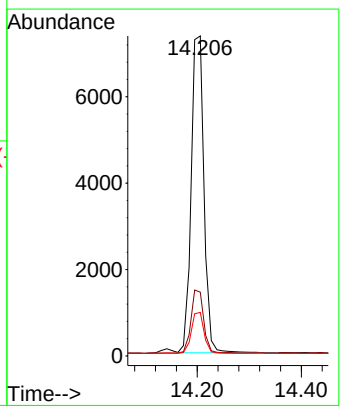


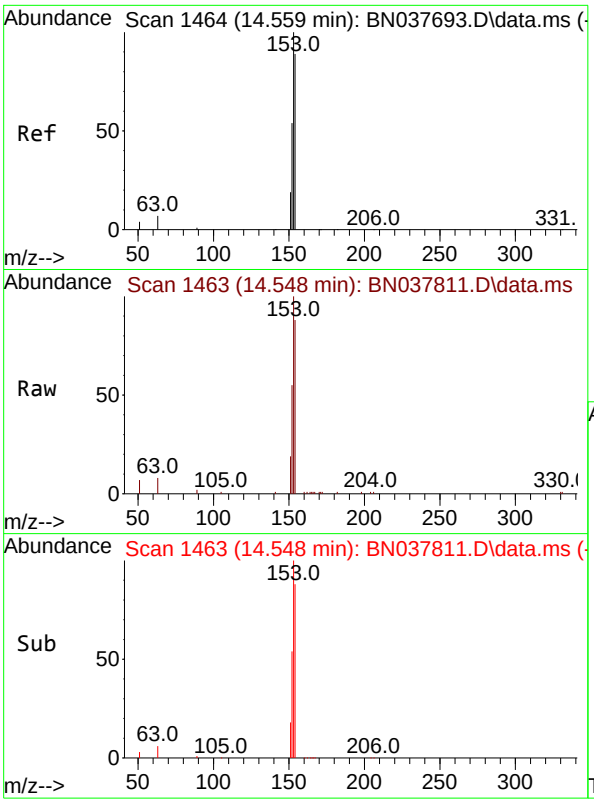




#16
Acenaphthylene
Concen: 0.370 ng
RT: 14.206 min Scan# 1431
Delta R.T. -0.000 min
Lab File: BN037811.D
Acq: 19 Sep 2025 13:03

Tgt Ion:152 Resp: 12502

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 151 | 19.8 | 16.2 | 24.2 |
| 153 | 13.3 | 10.4 | 15.6 |



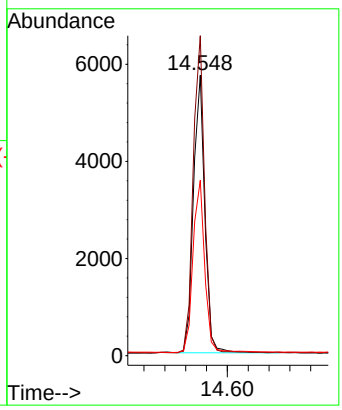


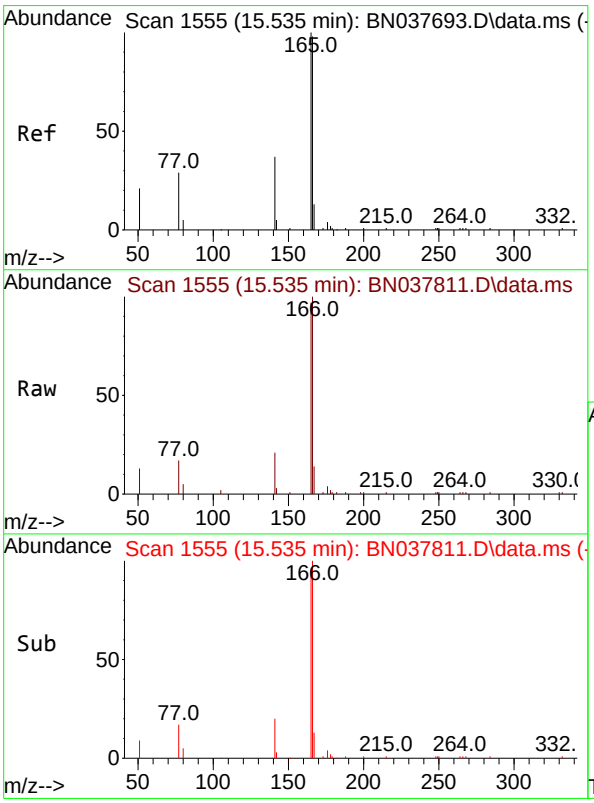

#17
Acenaphthene
Concen: 0.379 ng
RT: 14.548 min Scan# 14
Delta R.T. -0.011 min
Lab File: BN037811.D
Acq: 19 Sep 2025 13:03

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4EC

Tgt Ion:154 Resp: 8660

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 154 | 100 | | |
| 153 | 114.7 | 89.8 | 134.8 |
| 152 | 64.6 | 50.2 | 75.2 |

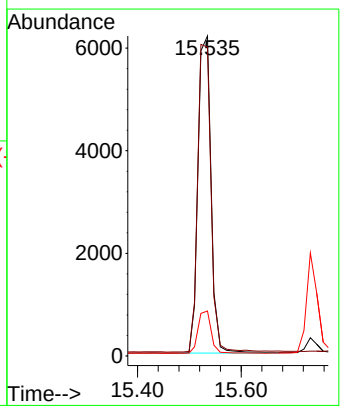


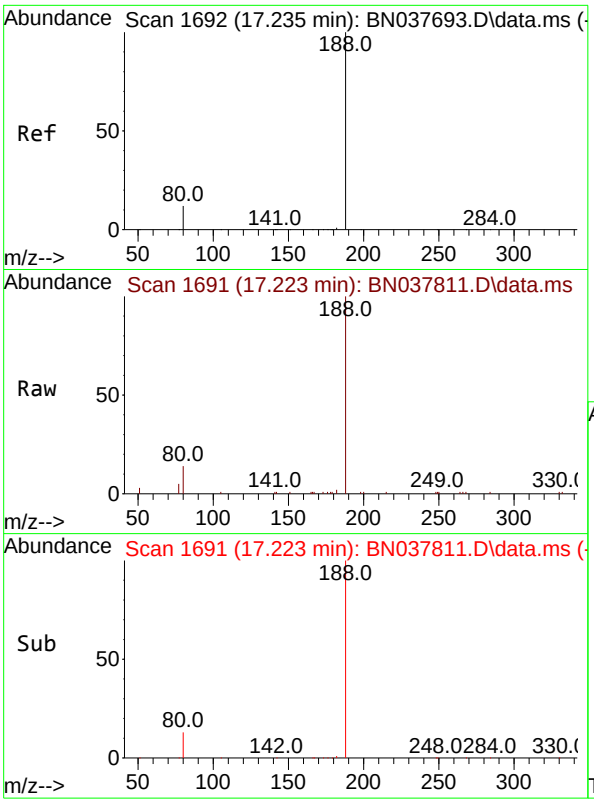




#18
Fluorene
Concen: 0.382 ng
RT: 15.535 min Scan# 1555
Delta R.T. -0.000 min
Lab File: BN037811.D
Acq: 19 Sep 2025 13:03

Tgt Ion:166 Resp: 10559

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 166 | 100 | | |
| 165 | 97.9 | 79.6 | 119.4 |
| 167 | 13.4 | 10.6 | 16.0 |



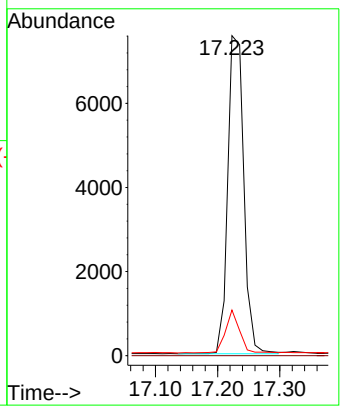


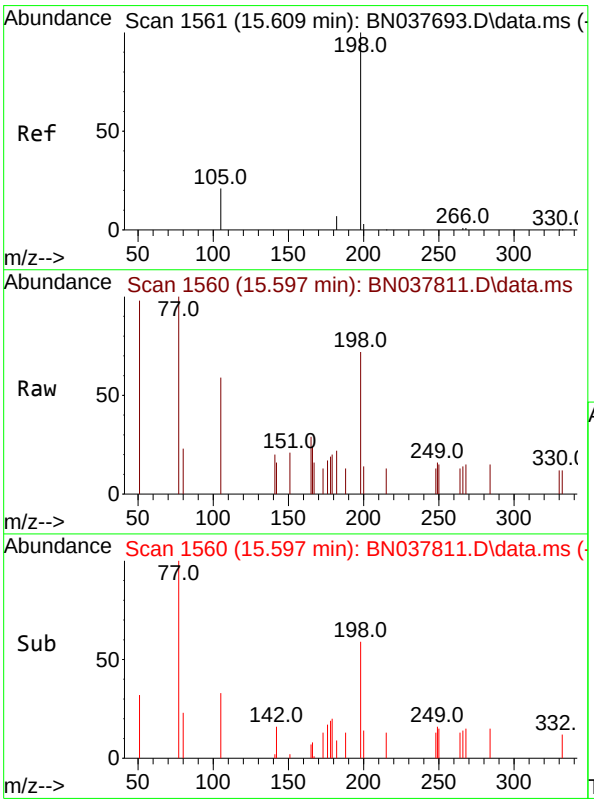

#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.223 min Scan# 1
Delta R.T. -0.013 min
Lab File: BN037811.D
Acq: 19 Sep 2025 13:03

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4EC

Tgt Ion:188 Resp: 13521

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 188 | 100 | | |
| 94 | 0.0 | 0.0 | 0.0 |
| 80 | 14.3 | 10.6 | 15.8 |

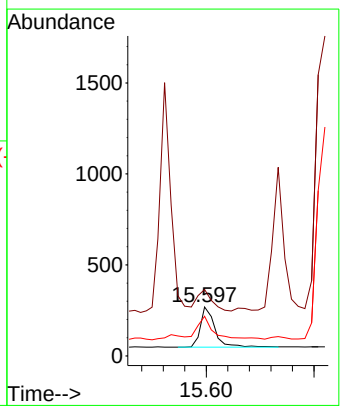


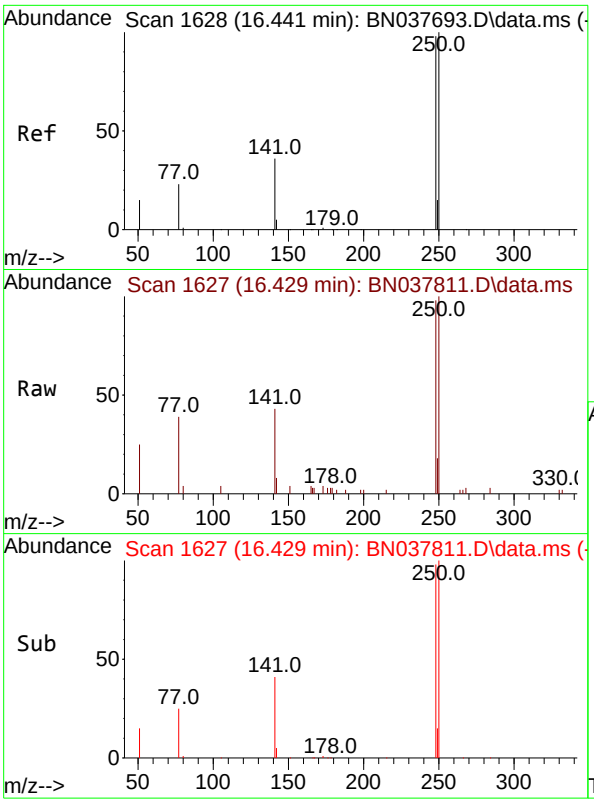




#20
4,6-Dinitro-2-methylphenol
Concen: 0.332 ng
RT: 15.597 min Scan# 1560
Delta R.T. -0.012 min
Lab File: BN037811.D
Acq: 19 Sep 2025 13:03

Tgt Ion:198 Resp: 416

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 198 | 100 | | |
| 51 | 135.7 | 95.1 | 142.7 |
| 105 | 81.0 | 53.8 | 80.6# |



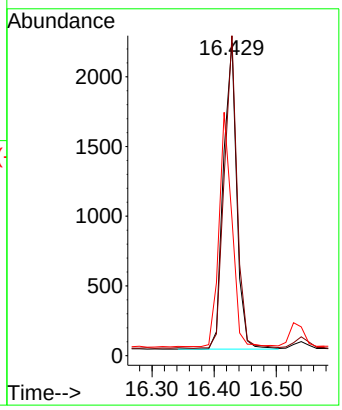


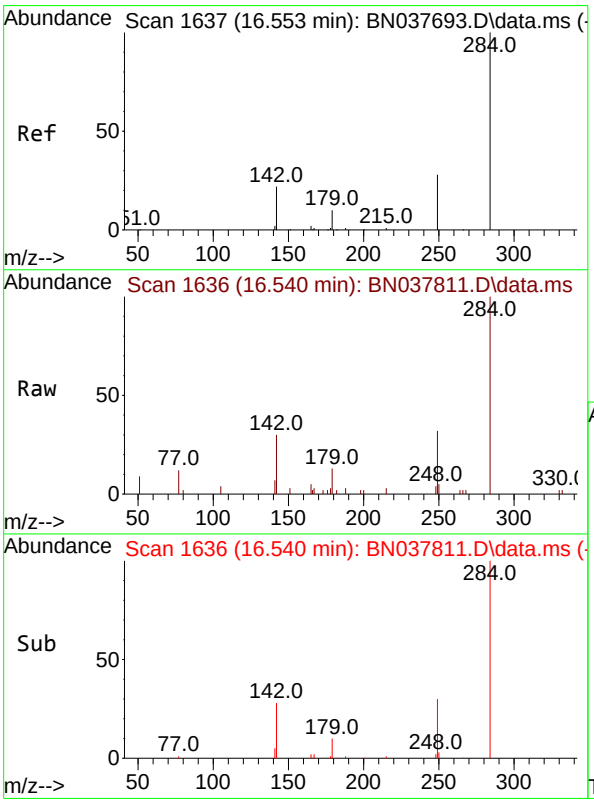

#21
4-Bromophenyl-phenylether
Concen: 0.369 ng
RT: 16.429 min Scan# 1
Delta R.T. -0.013 min
Lab File: BN037811.D
Acq: 19 Sep 2025 13:03

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4EC

Tgt Ion:248 Resp: 3252

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 248 | 100 | | |
| 250 | 102.2 | 81.5 | 122.3 |
| 141 | 43.8 | 30.8 | 46.2 |

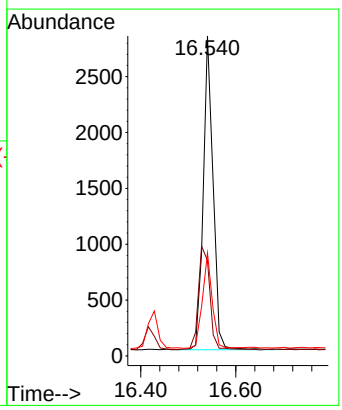


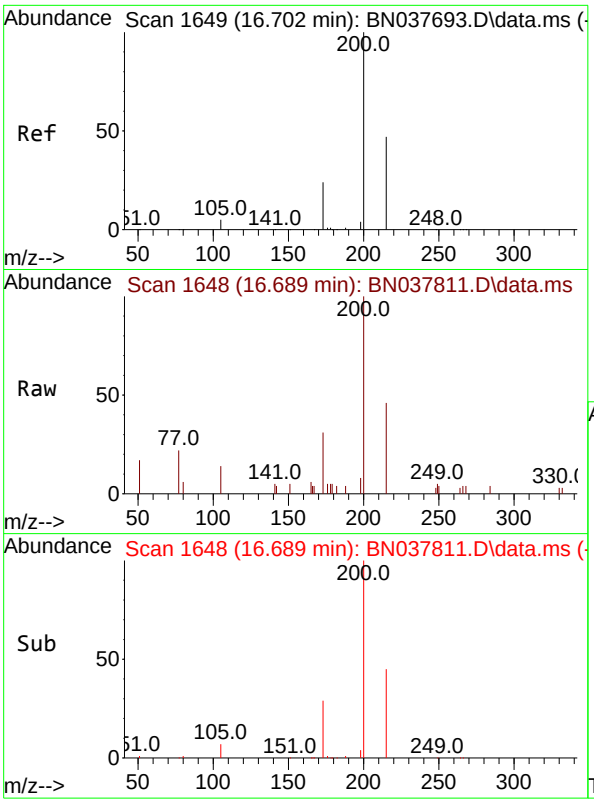




#22
Hexachlorobenzene
Concen: 0.401 ng
RT: 16.540 min Scan# 1636
Delta R.T. -0.013 min
Lab File: BN037811.D
Acq: 19 Sep 2025 13:03

Tgt Ion:284 Resp: 4063

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 284 | 100 | | |
| 142 | 38.3 | 30.9 | 46.3 |
| 249 | 30.0 | 24.8 | 37.2 |



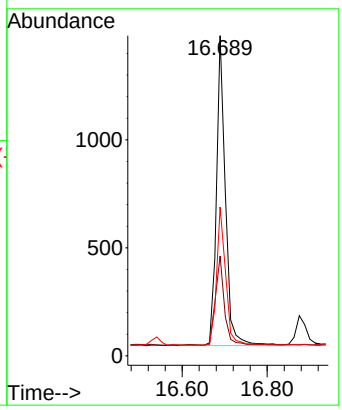


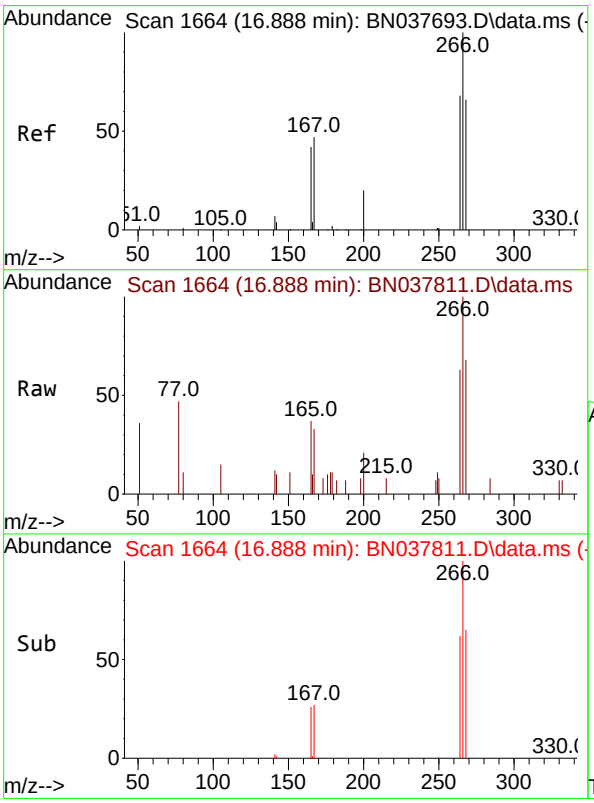

#23
Atrazine
Concen: 0.375 ng
RT: 16.689 min Scan# 1
Delta R.T. -0.013 min
Lab File: BN037811.D
Acq: 19 Sep 2025 13:03

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4EC

Tgt Ion:200 Resp: 2102

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 200 | 100 | | |
| 173 | 31.2 | 21.4 | 32.2 |
| 215 | 46.5 | 39.2 | 58.8 |

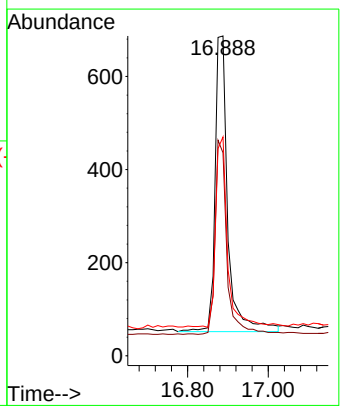


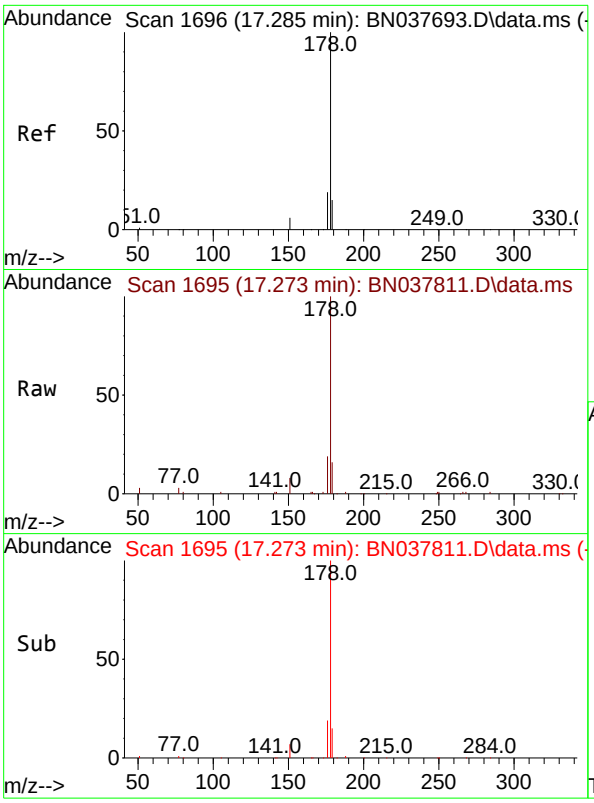




#24
Pentachlorophenol
Concen: 0.471 ng
RT: 16.888 min Scan# 1664
Delta R.T. -0.000 min
Lab File: BN037811.D
Acq: 19 Sep 2025 13:03

Tgt Ion:266 Resp: 1388

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 266 | 100 | | |
| 264 | 60.5 | 51.6 | 77.4 |
| 268 | 59.4 | 53.2 | 79.8 |



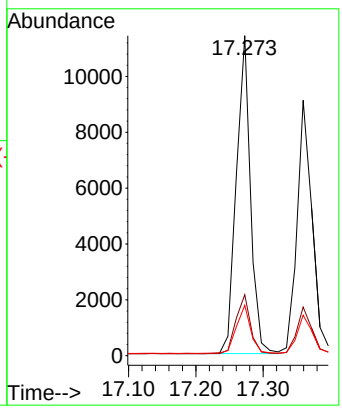


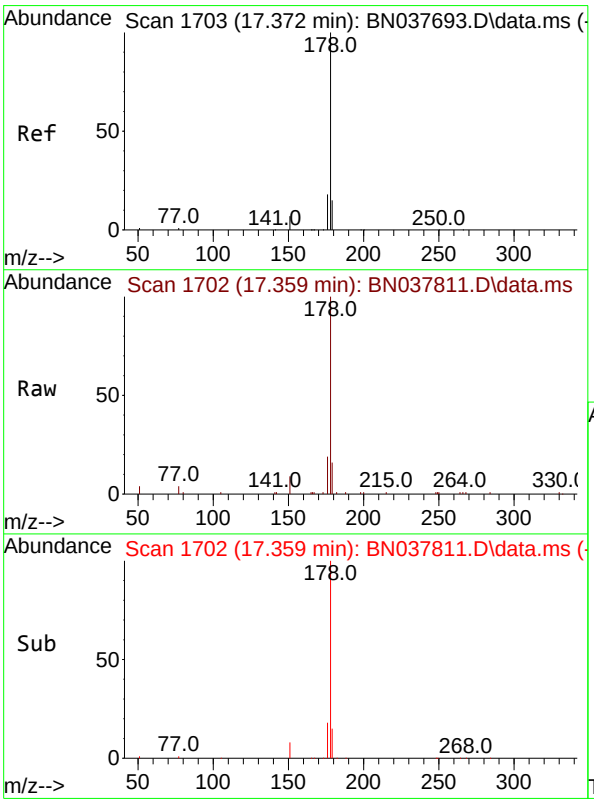

#25
Phenanthrene
Concen: 0.391 ng
RT: 17.273 min Scan# 1
Delta R.T. -0.013 min
Lab File: BN037811.D
Acq: 19 Sep 2025 13:03

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4EC

Tgt Ion:178 Resp: 16630

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 178 | 100 | | |
| 176 | 18.9 | 15.3 | 22.9 |
| 179 | 15.4 | 12.2 | 18.2 |

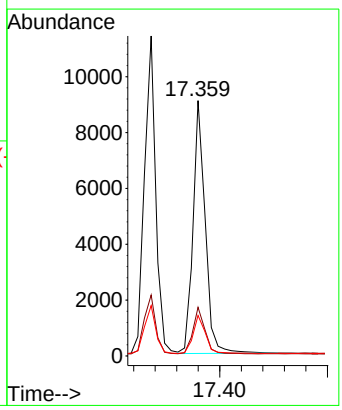


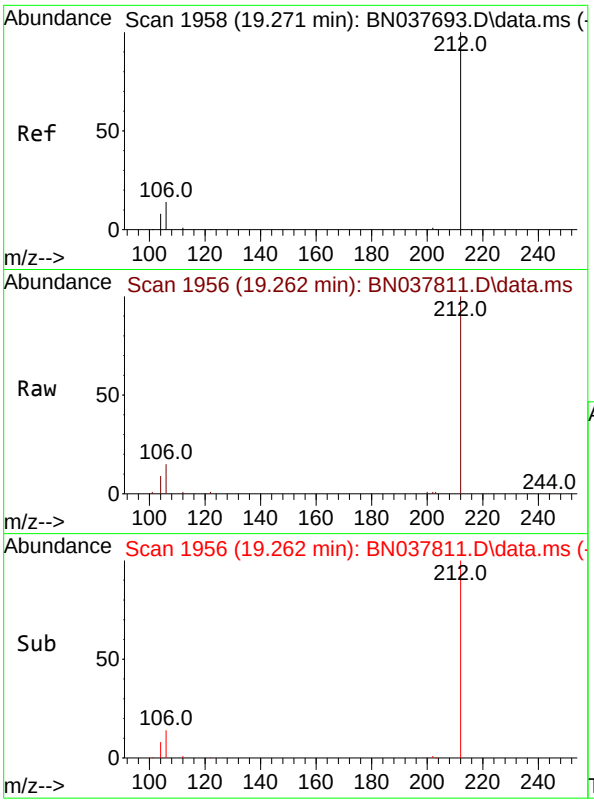




#26
Anthracene
Concen: 0.378 ng
RT: 17.359 min Scan# 1702
Delta R.T. -0.013 min
Lab File: BN037811.D
Acq: 19 Sep 2025 13:03

Tgt Ion:178 Resp: 14242

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 178 | 100 | | |
| 176 | 18.2 | 14.6 | 22.0 |
| 179 | 15.4 | 12.2 | 18.4 |



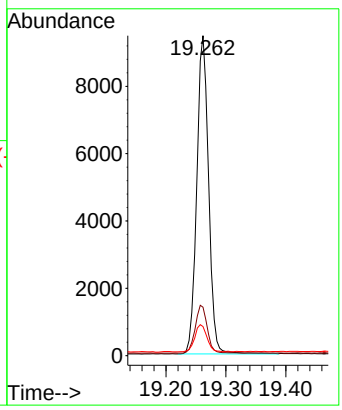


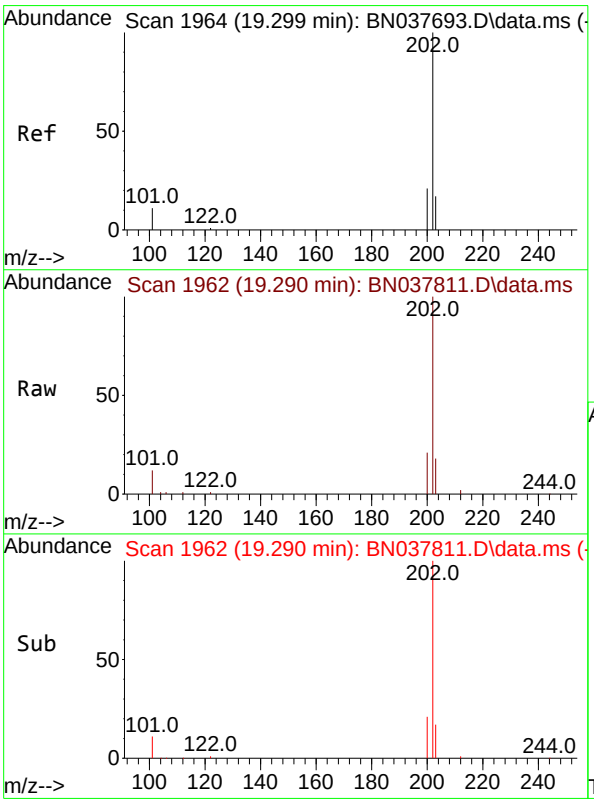

#27
Fluoranthene-d10
Concen: 0.381 ng
RT: 19.262 min Scan# 1
Delta R.T. -0.009 min
Lab File: BN037811.D
Acq: 19 Sep 2025 13:03

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4EC

Tgt Ion:212 Resp: 12937

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 212 | 100 | | |
| 106 | 15.2 | 12.2 | 18.2 |
| 104 | 8.8 | 6.9 | 10.3 |

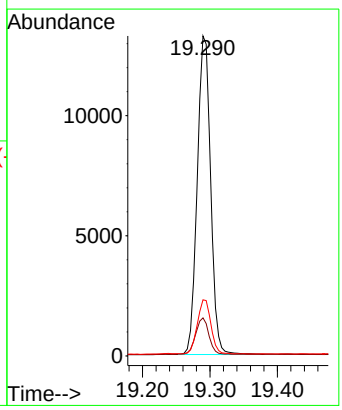


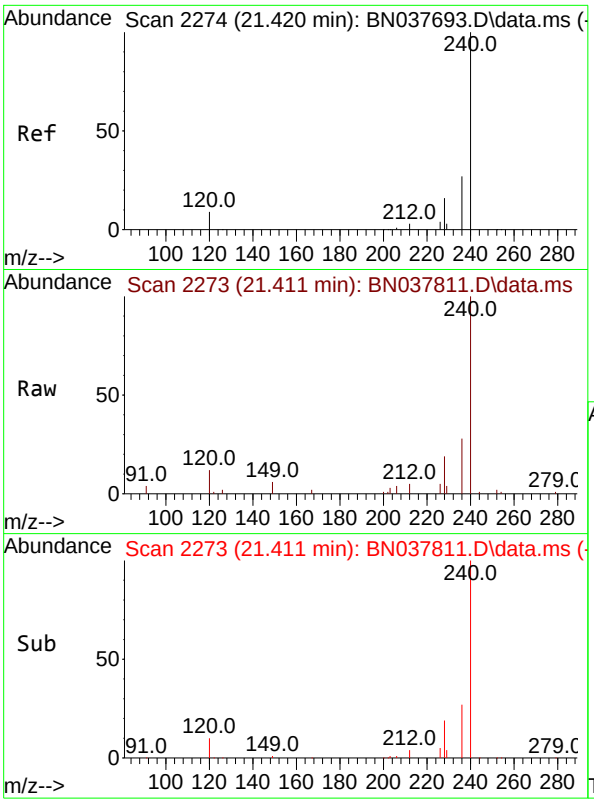




#28
Fluoranthene
Concen: 0.391 ng
RT: 19.290 min Scan# 1962
Delta R.T. -0.009 min
Lab File: BN037811.D
Acq: 19 Sep 2025 13:03

Tgt Ion:202 Resp: 18266

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 202 | 100 | | |
| 101 | 11.4 | 9.3 | 13.9 |
| 203 | 17.2 | 13.7 | 20.5 |



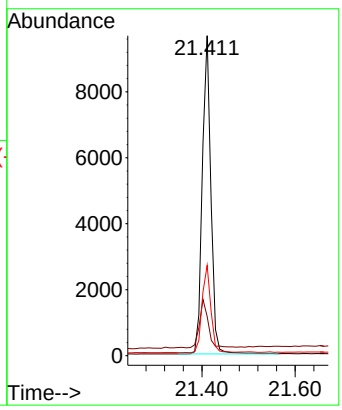


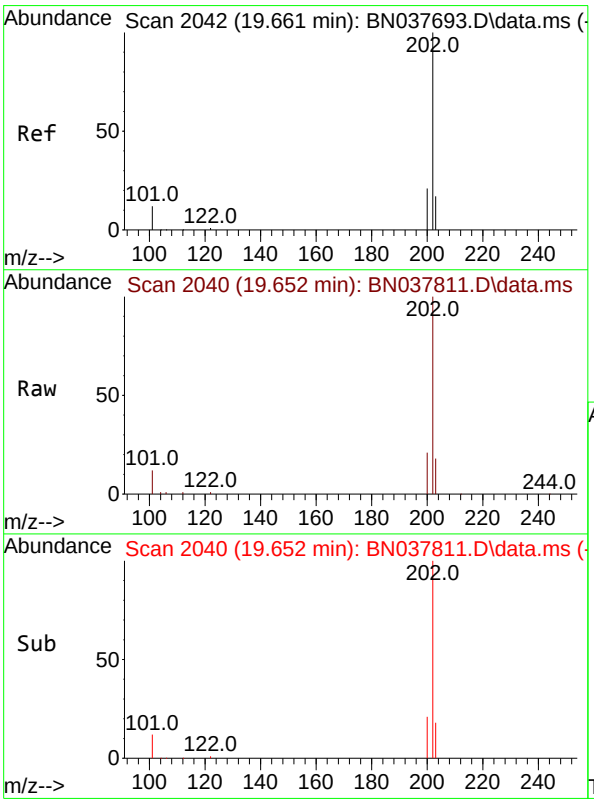

#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.411 min Scan# 2
Delta R.T. -0.009 min
Lab File: BN037811.D
Acq: 19 Sep 2025 13:03

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4EC

Tgt Ion:240 Resp: 12361

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 240 | 100 | | |
| 120 | 12.3 | 9.2 | 13.8 |
| 236 | 28.2 | 22.6 | 33.8 |

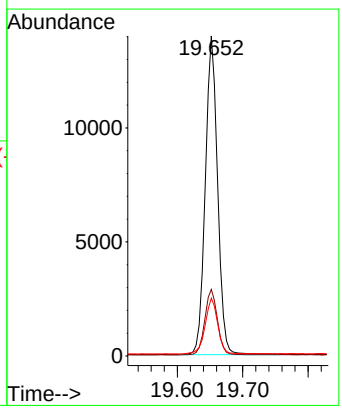


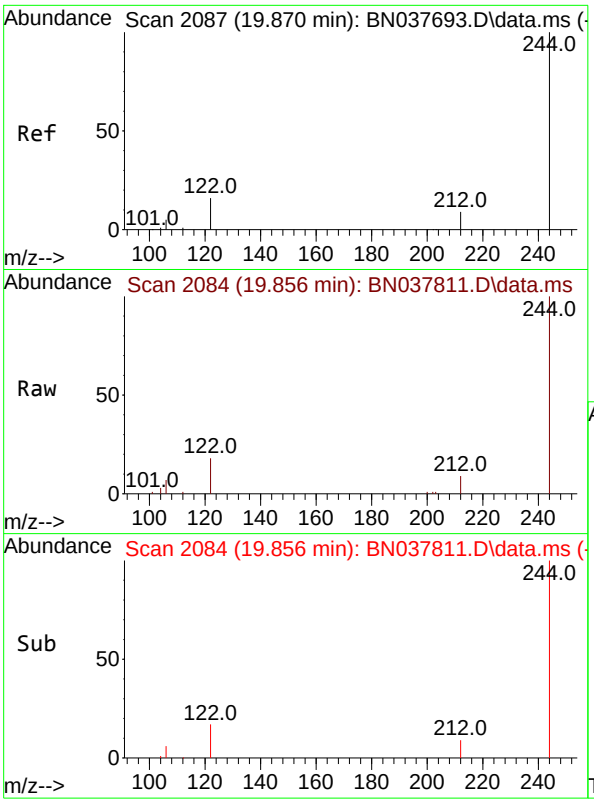




#30
Pyrene
Concen: 0.377 ng
RT: 19.652 min Scan# 2040
Delta R.T. -0.009 min
Lab File: BN037811.D
Acq: 19 Sep 2025 13:03

Tgt Ion:202 Resp: 18234

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 202 | 100 | | |
| 200 | 20.8 | 16.8 | 25.2 |
| 203 | 17.8 | 14.3 | 21.5 |



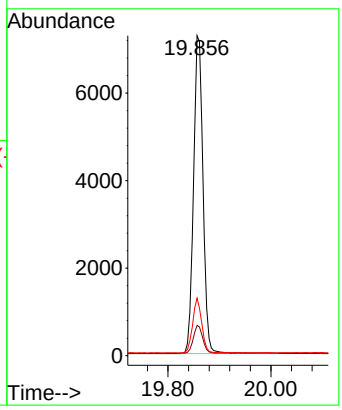


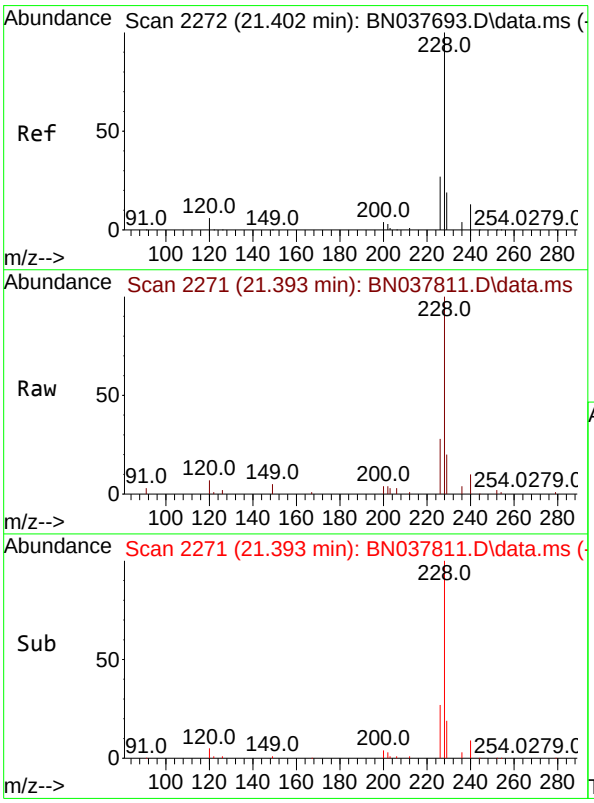

#31
Terphenyl-d14
Concen: 0.377 ng
RT: 19.856 min Scan# 2
Delta R.T. -0.014 min
Lab File: BN037811.D
Acq: 19 Sep 2025 13:03

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4EC

Tgt Ion:244 Resp: 9455

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 244 | 100 | | |
| 212 | 9.5 | 7.5 | 11.3 |
| 122 | 18.0 | 13.2 | 19.8 |

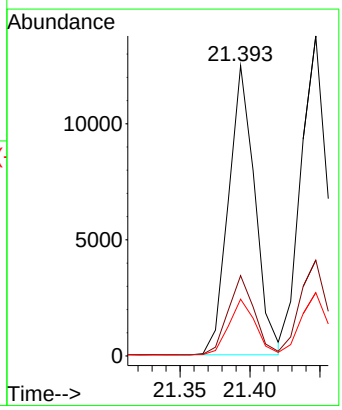


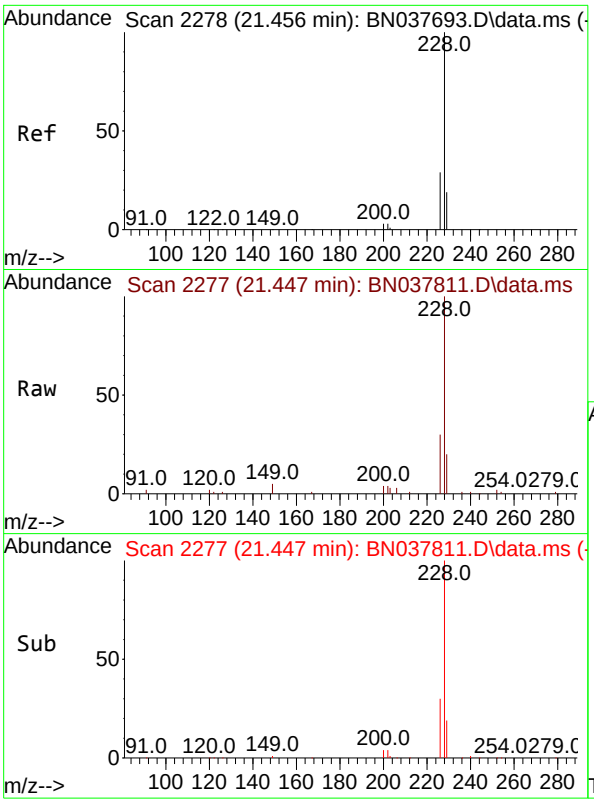




#32
Benzo(a)anthracene
Concen: 0.379 ng
RT: 21.393 min Scan# 2271
Delta R.T. -0.009 min
Lab File: BN037811.D
Acq: 19 Sep 2025 13:03

Tgt Ion:228 Resp: 16344

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 228 | 100 | | |
| 226 | 27.7 | 22.2 | 33.2 |
| 229 | 19.6 | 15.8 | 23.6 |



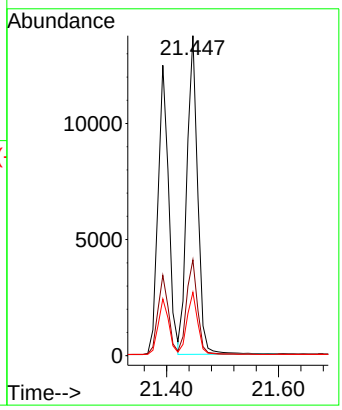


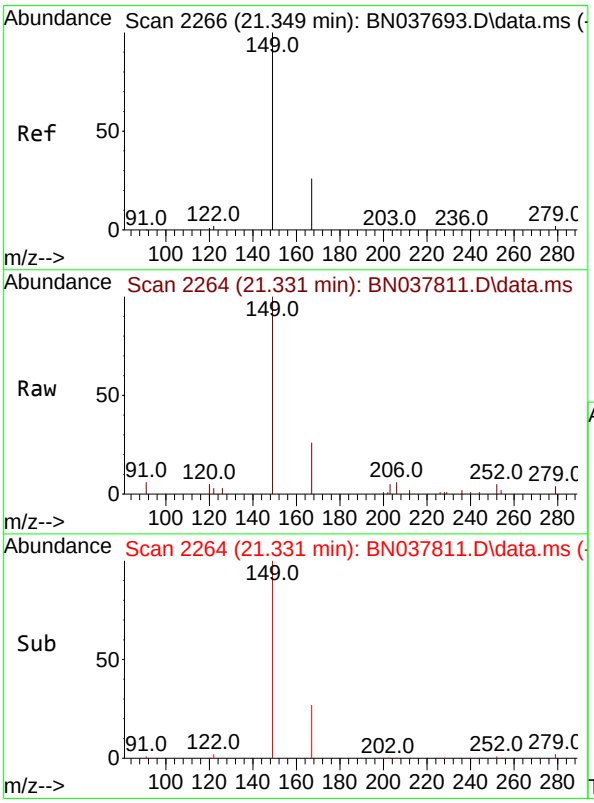

#33
Chrysene
Concen: 0.396 ng
RT: 21.447 min Scan# 2
Delta R.T. -0.009 min
Lab File: BN037811.D
Acq: 19 Sep 2025 13:03

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4EC

Tgt Ion:228 Resp: 18321

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 228 | 100 | | |
| 226 | 30.0 | 23.5 | 35.3 |
| 229 | 19.8 | 15.9 | 23.9 |

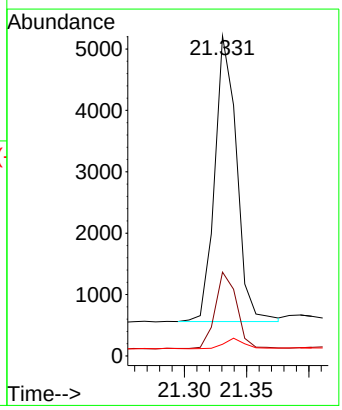


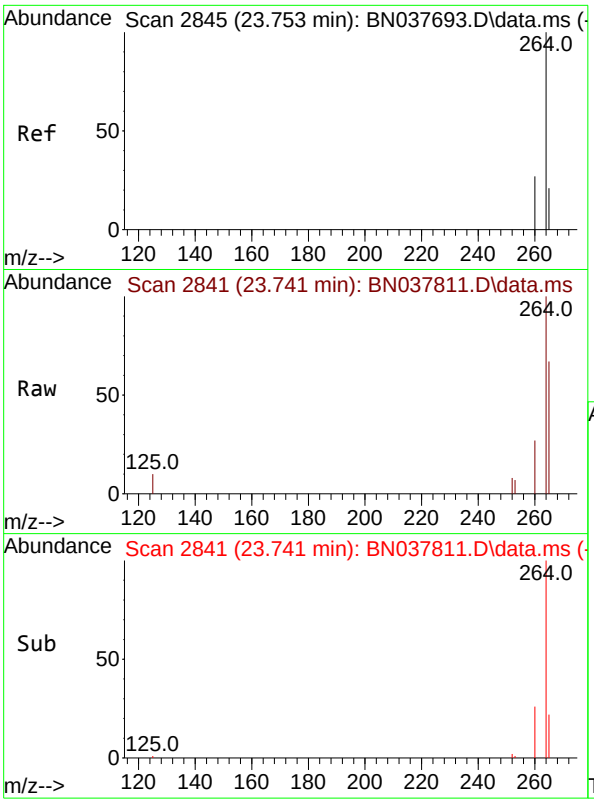




#34
Bis(2-ethylhexyl)phthalate
Concen: 0.446 ng
RT: 21.331 min Scan# 2264
Delta R.T. -0.018 min
Lab File: BN037811.D
Acq: 19 Sep 2025 13:03

Tgt Ion:149 Resp: 5701

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 149 | 100 | | |
| 167 | 26.3 | 20.8 | 31.2 |
| 279 | 3.6 | 3.3 | 4.9 |



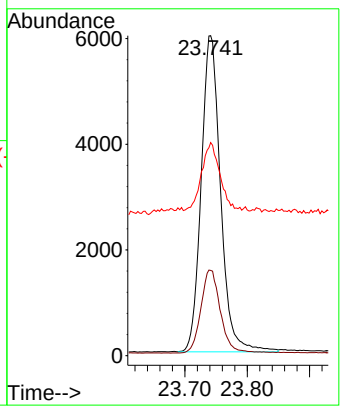


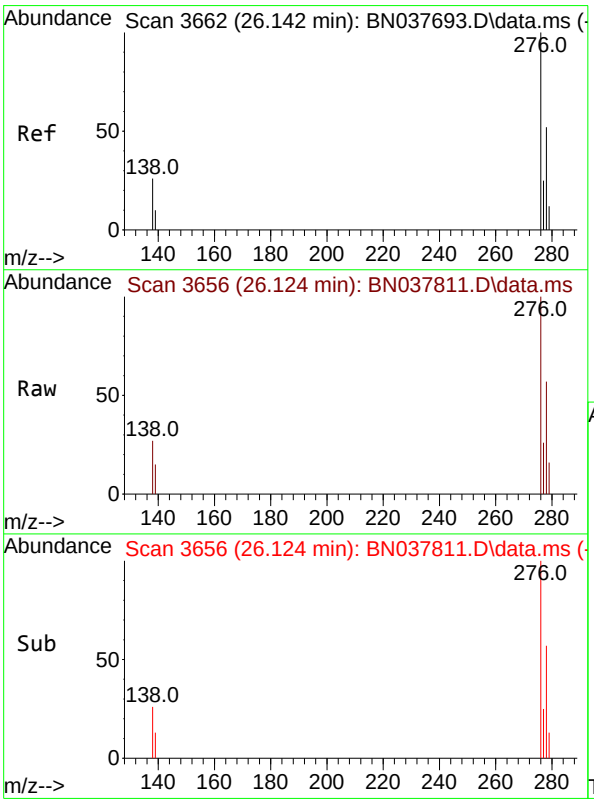

#35
Perylene-d12
Concen: 0.400 ng
RT: 23.741 min Scan# 2
Delta R.T. -0.012 min
Lab File: BN037811.D
Acq: 19 Sep 2025 13:03

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4EC

Tgt Ion:264 Resp: 12915

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 264 | 100 | | |
| 260 | 26.7 | 21.8 | 32.8 |
| 265 | 66.6 | 39.4 | 59.2# |

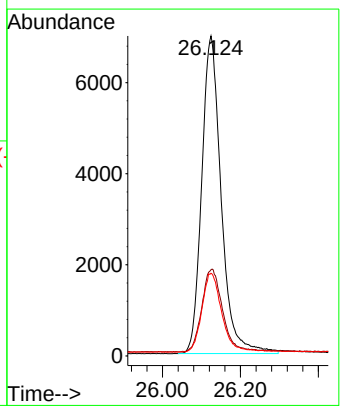


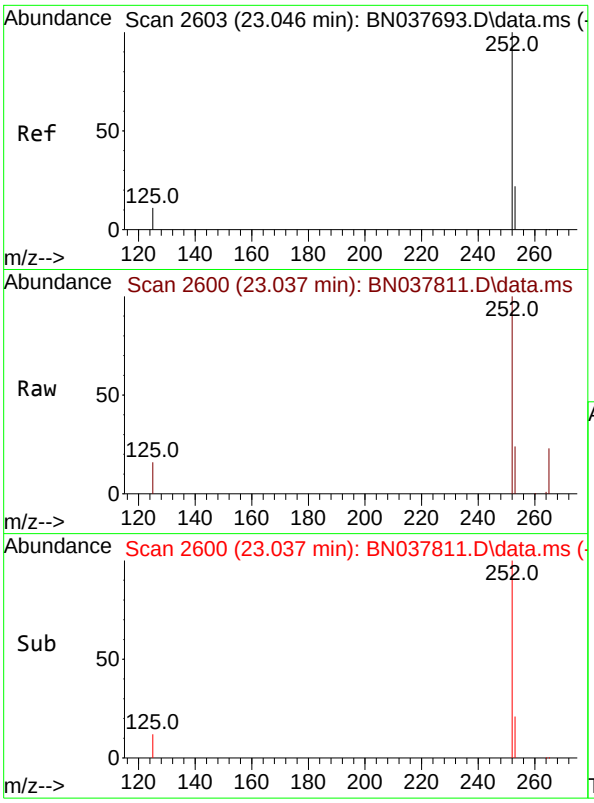




#36
Indeno(1,2,3-cd)pyrene
Concen: 0.447 ng
RT: 26.124 min Scan# 3656
Delta R.T. -0.018 min
Lab File: BN037811.D
Acq: 19 Sep 2025 13:03

Tgt Ion:276 Resp: 24237

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 276 | 100 | | |
| 138 | 27.3 | 21.9 | 32.9 |
| 277 | 25.1 | 20.1 | 30.1 |



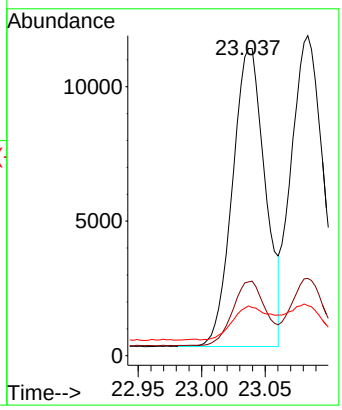


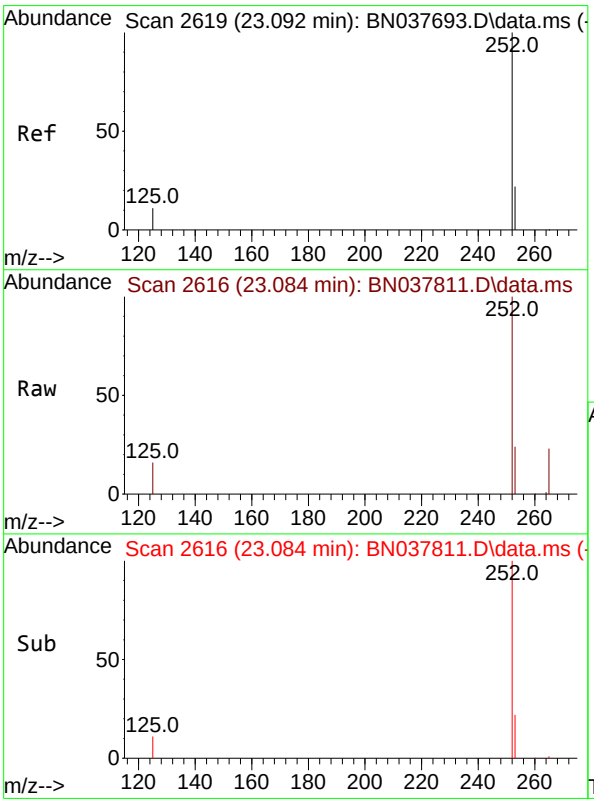

#37
Benzo(b)fluoranthene
Concen: 0.389 ng
RT: 23.037 min Scan# 2
Delta R.T. -0.009 min
Lab File: BN037811.D
Acq: 19 Sep 2025 13:03

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4EC

Tgt Ion:252 Resp: 19797

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 24.0 | 19.4 | 29.2 |
| 125 | 16.2 | 11.2 | 16.8 |

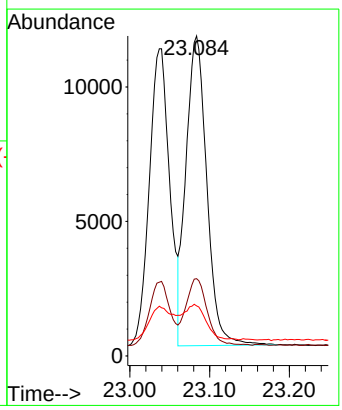


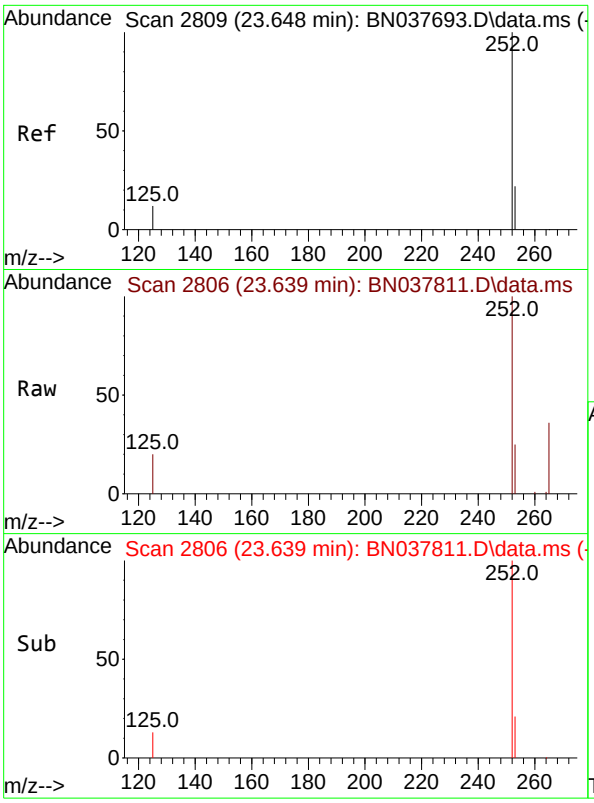




#38
Benzo(k)fluoranthene
Concen: 0.402 ng
RT: 23.084 min Scan# 2616
Delta R.T. -0.009 min
Lab File: BN037811.D
Acq: 19 Sep 2025 13:03

Tgt Ion:252 Resp: 20862

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 24.2 | 19.4 | 29.0 |
| 125 | 15.7 | 11.6 | 17.4 |



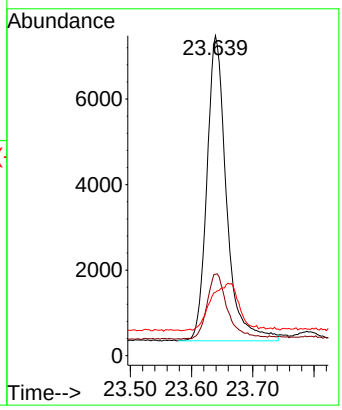


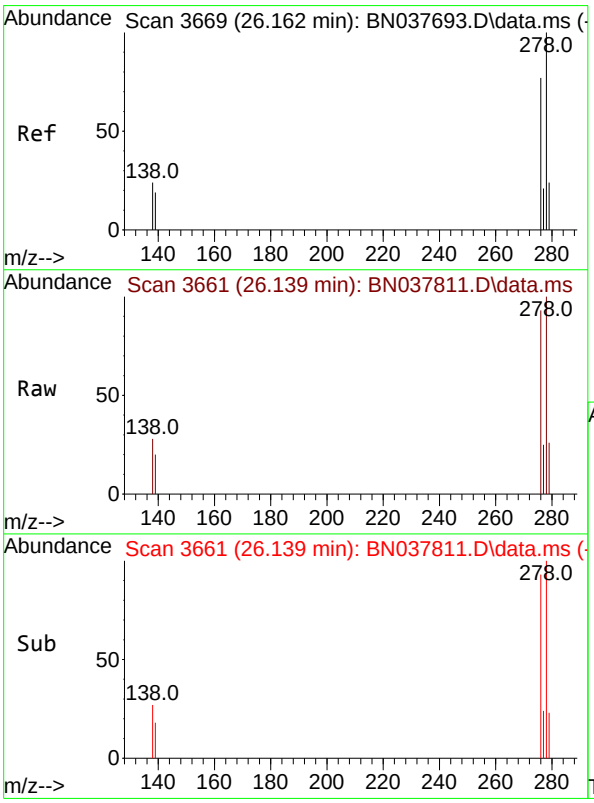

#39
Benzo(a)pyrene
Concen: 0.388 ng
RT: 23.639 min Scan# 2
Delta R.T. -0.009 min
Lab File: BN037811.D
Acq: 19 Sep 2025 13:03

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4EC

Tgt Ion:252 Resp: 15816

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 25.4 | 20.8 | 31.2 |
| 125 | 19.8 | 13.9 | 20.9 |

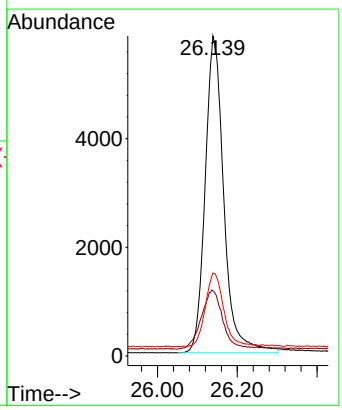


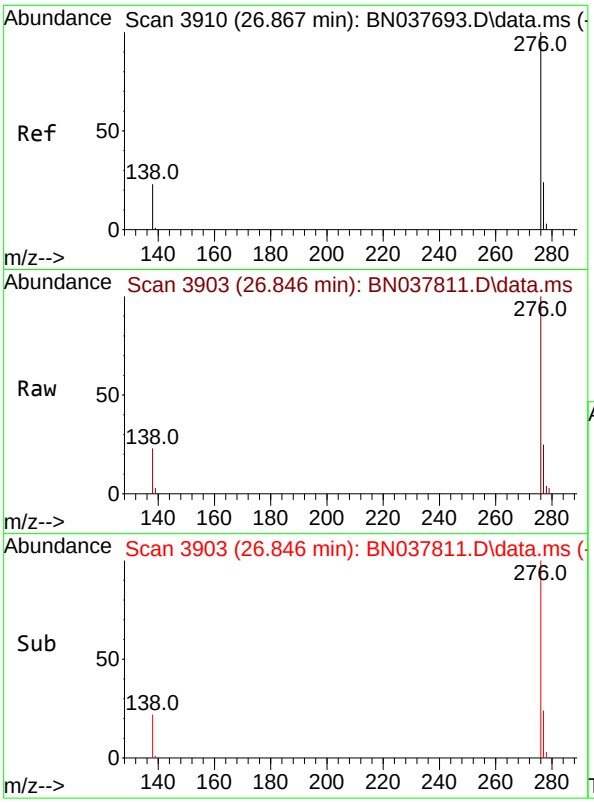




#40
Dibenzo(a,h)anthracene
Concen: 0.437 ng
RT: 26.139 min Scan# 3661
Delta R.T. -0.024 min
Lab File: BN037811.D
Acq: 19 Sep 2025 13:03

Tgt Ion:278 Resp: 18950

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 278 | 100 | | |
| 139 | 20.4 | 17.8 | 26.6 |
| 279 | 25.9 | 22.0 | 33.0 |



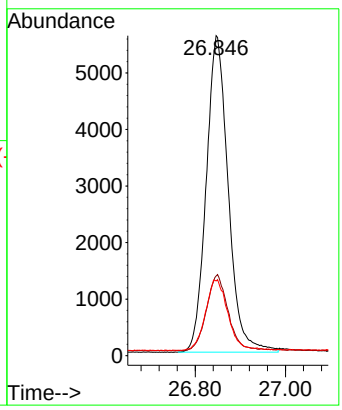



#41
Benzo(g,h,i)perylene
Concen: 0.391 ng
RT: 26.846 min Scan# 3
Delta R.T. -0.021 min
Lab File: BN037811.D
Acq: 19 Sep 2025 13:03

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4EC

Tgt Ion:276 Resp: 18988

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 276 | 100 | | |
| 277 | 24.9 | 20.6 | 31.0 |
| 138 | 23.3 | 20.2 | 30.2 |



Evaluate Continuing Calibration Report

Sample Results: **BN037811.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN091825\
Data File : BN037811.D
Acq On : 19 Sep 2025 13:03
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 36 Sample Multiplier: 1

**Instrument :**
BNA_N
**LabSampleId :**
SSTDCCC0.4

Quant Time: Sep 19 13:27:51 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN091125.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Sep 11 14:20:01 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 | 116 | 0.00 |
| 2 | | 1,4-Dioxane | 0.417 | 0.424 | -1.7 | 117 | 0.00 |
| 3 | | n-Nitrosodimethylamine | 0.544 | 0.565 | -3.9 | 117 | 0.00 |
| 4 | S | 2-Fluorophenol | 0.918 | 1.044 | -13.7 | 136 | 0.00 |
| 5 | S | Phenol-d6 | 1.191 | 1.176 | 1.3 | 118 | 0.00 |
| 6 | | bis(2-Chloroethyl)ether | 1.064 | 1.039 | 2.3 | 113 | 0.00 |
| 7 | I | Naphthalene-d8 | 1.000 | 1.000 | 0.0 | 119 | -0.01 |
| 8 | S | Nitrobenzene-d5 | 0.293 | 0.292 | 0.3 | 122 | -0.01 |
| 9 | | Naphthalene | 1.093 | 1.067 | 2.4 | 118 | -0.01 |
| 10 | | Hexachlorobutadiene | 0.198 | 0.191 | 3.5 | 115 | -0.02 |
| 11 | SURR | 2-Methylnaphthalene-d10 | 0.530 | 0.497 | 6.2 | 118 | -0.02 |
| 12 | | 2-Methylnaphthalene | 0.676 | 0.649 | 4.0 | 117 | -0.01 |
| 13 | I | Acenaphthene-d10 | 1.000 | 1.000 | 0.0 | 119 | -0.01 |
| 14 | S | 2,4,6-Tribromophenol | 0.104 | 0.131 | -26.0# | 154# | -0.01 |
| 15 | S | 2-Fluorobiphenyl | 1.673 | 1.615 | 3.5 | 116 | -0.01 |
| 16 | | Acenaphthylene | 1.834 | 1.698 | 7.4 | 113 | 0.00 |
| 17 | | Acenaphthene | 1.240 | 1.176 | 5.2 | 115 | -0.01 |
| 18 | | Fluorene | 1.502 | 1.434 | 4.5 | 118 | 0.00 |
| 19 | I | Phenanthrene-d10 | 1.000 | 1.000 | 0.0 | 120 | -0.01 |
| 20 | | 4,6-Dinitro-2-methylphenol | 0.037 | 0.031 | 16.2 | 112 | -0.01 |
| 21 | | 4-Bromophenyl-phenylether | 0.261 | 0.241 | 7.7 | 115 | -0.01 |
| 22 | | Hexachlorobenzene | 0.300 | 0.300 | 0.0 | 123 | -0.01 |
| 23 | | Atrazine | 0.166 | 0.155 | 6.6 | 123 | -0.01 |
| 24 | | Pentachlorophenol | 0.087 | 0.103 | -18.4 | 165# | 0.00 |
| 25 | | Phenanthrene | 1.259 | 1.230 | 2.3 | 121 | -0.01 |
| 26 | | Anthracene | 1.116 | 1.053 | 5.6 | 118 | -0.01 |
| 27 | SURR | Fluoranthene-d10 | 1.004 | 0.957 | 4.7 | 123 | 0.00 |
| 28 | | Fluoranthene | 1.381 | 1.351 | 2.2 | 124 | 0.00 |
| 29 | I | Chrysene-d12 | 1.000 | 1.000 | 0.0 | 132 | 0.00 |
| 30 | | Pyrene | 1.566 | 1.475 | 5.8 | 125 | 0.00 |
| 31 | S | Terphenyl-d14 | 0.812 | 0.765 | 5.8 | 126 | -0.01 |
| 32 | | Benzo(a)anthracene | 1.395 | 1.322 | 5.2 | 129 | 0.00 |
| 33 | | Chrysene | 1.496 | 1.482 | 0.9 | 131 | 0.00 |
| 34 | | Bis(2-ethylhexyl)phthalate | 0.414 | 0.461 | -11.4 | 162# | -0.02 |
| 35 | I | Perylene-d12 | 1.000 | 1.000 | 0.0 | 144 | -0.01 |
| 36 | | Indeno(1,2,3-cd)pyrene | 1.681 | 1.877 | -11.7 | 175# | -0.02 |
| 37 | | Benzo(b)fluoranthene | 1.575 | 1.533 | 2.7 | 142 | 0.00 |
| 38 | | Benzo(k)fluoranthene | 1.606 | 1.615 | -0.6 | 153# | 0.00 |
| 39 | C | Benzo(a)pyrene | 1.261 | 1.225 | 2.9 | 147 | 0.00 |
| 40 | | Dibenzo(a,h)anthracene | 1.342 | 1.467 | -9.3 | 175# | -0.02 |
| 41 | | Benzo(g,h,i)perylene | 1.506 | 1.470 | 2.4 | 146 | -0.02 |

(#) = Out of Range SPCC's out = 0 CCC's out = 0

**Instrument :**
BNA_N
**LabSampleId :**
SSTDCCC0.4

Evaluate Continuing Calibration Report

Sample Results: **BN037811.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN091825\
Data File : BN037811.D
Acq On : 19 Sep 2025 13:03
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 36 Sample Multiplier: 1

**Instrument :**
BNA_N
**LabSampleId :**
SSTDCCC0.4

Quant Time: Sep 19 13:27:51 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN091125.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Sep 11 14:20:01 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 | 116 | 0.00 |
| 2 | | 1,4-Dioxane | 0.400 | 0.407 | -1.7 | 117 | 0.00 |
| 3 | | n-Nitrosodimethylamine | 0.400 | 0.415 | -3.7 | 117 | 0.00 |
| 4 | S | 2-Fluorophenol | 0.400 | 0.455 | -13.7 | 136 | 0.00 |
| 5 | S | Phenol-d6 | 0.400 | 0.395 | 1.3 | 118 | 0.00 |
| 6 | | bis(2-Chloroethyl)ether | 0.400 | 0.391 | 2.3 | 113 | 0.00 |
| 7 | I | Naphthalene-d8 | 0.400 | 0.400 | 0.0 | 119 | -0.01 |
| 8 | S | Nitrobenzene-d5 | 0.400 | 0.399 | 0.3 | 122 | -0.01 |
| 9 | | Naphthalene | 0.400 | 0.391 | 2.3 | 118 | -0.01 |
| 10 | | Hexachlorobutadiene | 0.400 | 0.387 | 3.3 | 115 | -0.02 |
| 11 | SURR | 2-Methylnaphthalene-d10 | 0.400 | 0.375 | 6.3 | 118 | -0.02 |
| 12 | | 2-Methylnaphthalene | 0.400 | 0.384 | 4.0 | 117 | -0.01 |
| 13 | I | Acenaphthene-d10 | 0.400 | 0.400 | 0.0 | 119 | -0.01 |
| 14 | S | 2,4,6-Tribromophenol | 0.400 | 0.501 | -25.2# | 154 | -0.01 |
| 15 | S | 2-Fluorobiphenyl | 0.400 | 0.386 | 3.5 | 116 | -0.01 |
| 16 | | Acenaphthylene | 0.400 | 0.370 | 7.5 | 113 | 0.00 |
| 17 | | Acenaphthene | 0.400 | 0.379 | 5.3 | 115 | -0.01 |
| 18 | | Fluorene | 0.400 | 0.382 | 4.5 | 118 | 0.00 |
| 19 | I | Phenanthrene-d10 | 0.400 | 0.400 | 0.0 | 120 | -0.01 |
| 20 | | 4,6-Dinitro-2-methylphenol | 0.400 | 0.332 | 17.0 | 112 | -0.01 |
| 21 | | 4-Bromophenyl-phenylether | 0.400 | 0.369 | 7.8 | 115 | -0.01 |
| 22 | | Hexachlorobenzene | 0.400 | 0.401 | -0.3 | 123 | -0.01 |
| 23 | | Atrazine | 0.400 | 0.375 | 6.3 | 123 | -0.01 |
| 24 | | Pentachlorophenol | 0.400 | 0.471 | -17.7 | 165 | 0.00 |
| 25 | | Phenanthrene | 0.400 | 0.391 | 2.3 | 121 | -0.01 |
| 26 | | Anthracene | 0.400 | 0.378 | 5.5 | 118 | -0.01 |
| 27 | SURR | Fluoranthene-d10 | 0.400 | 0.381 | 4.8 | 123 | 0.00 |
| 28 | | Fluoranthene | 0.400 | 0.391 | 2.3 | 124 | 0.00 |
| 29 | I | Chrysene-d12 | 0.400 | 0.400 | 0.0 | 132 | 0.00 |
| 30 | | Pyrene | 0.400 | 0.377 | 5.8 | 125 | 0.00 |
| 31 | S | Terphenyl-d14 | 0.400 | 0.377 | 5.8 | 126 | -0.01 |
| 32 | | Benzo(a)anthracene | 0.400 | 0.379 | 5.3 | 129 | 0.00 |
| 33 | | Chrysene | 0.400 | 0.396 | 1.0 | 131 | 0.00 |
| 34 | | Bis(2-ethylhexyl)phthalate | 0.400 | 0.446 | -11.5 | 162 | -0.02 |
| 35 | I | Perylene-d12 | 0.400 | 0.400 | 0.0 | 144 | -0.01 |
| 36 | | Indeno(1,2,3-cd)pyrene | 0.400 | 0.447 | -11.7 | 175 | -0.02 |
| 37 | | Benzo(b)fluoranthene | 0.400 | 0.389 | 2.8 | 142 | 0.00 |
| 38 | | Benzo(k)fluoranthene | 0.400 | 0.402 | -0.5 | 153 | 0.00 |
| 39 | C | Benzo(a)pyrene | 0.400 | 0.388 | 3.0 | 147 | 0.00 |
| 40 | | Dibenzo(a,h)anthracene | 0.400 | 0.437 | -9.2 | 175 | -0.02 |
| 41 | | Benzo(g,h,i)perylene | 0.400 | 0.391 | 2.3 | 146 | -0.02 |

(#) = Out of Range SPCC's out = 0 CCC's out = 0

**Instrument :**
BNA_N
**LabSampleId :**
SSTDCCC0.4

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

7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: Alliance Contract: AECO15

Lab Code: ACE SDG No.: Q3095

Instrument ID: BNA_N Calibration Date/Time: 09/19/2025 14:19

Lab File ID: BN037813.D Init. Calib. Date(s): 09/11/2025 09/11/2025

EPA Sample No.: SSTDCCC0.4 Init. Calib. Time(s): 09:56 13:33

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

| COMPOUND | RRF | RRF0.4 | MIN RRF | %D | MAX%D |
|---|---|---|---|---|---|
| 2-Methylnaphthalene-d10 | 0.530 | 0.473 | | -10.8 | 20.0 |
| Fluoranthene-d10 | 1.004 | 0.897 | | -10.7 | 20.0 |
| 2-Fluorophenol | 0.918 | 0.947 | | 3.2 | 20.0 |
| Phenol-d6 | 1.191 | 1.079 | | -9.4 | 20.0 |
| Nitrobenzene-d5 | 0.293 | 0.284 | | -3.1 | 20.0 |
| 2-Fluorobiphenyl | 1.673 | 1.589 | | -5.0 | 20.0 |
| 2,4,6-Tribromophenol | 0.104 | 0.121 | | 16.3 | 20.0 |
| Terphenyl-d14 | 0.812 | 0.730 | | -10.1 | 20.0 |
| 1,4-Dioxane | 0.417 | 0.410 | | -1.7 | 20.0 |

All other compounds must meet a minimum RRF of 0.010.

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN091925\
Data File : BN037813.D
Acq On : 19 Sep 2025 14:19
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 2 Sample Multiplier: 1

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4

Quant Time: Sep 19 15:09:21 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN091125.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Sep 11 14:20:01 2025
Response via : Initial Calibration

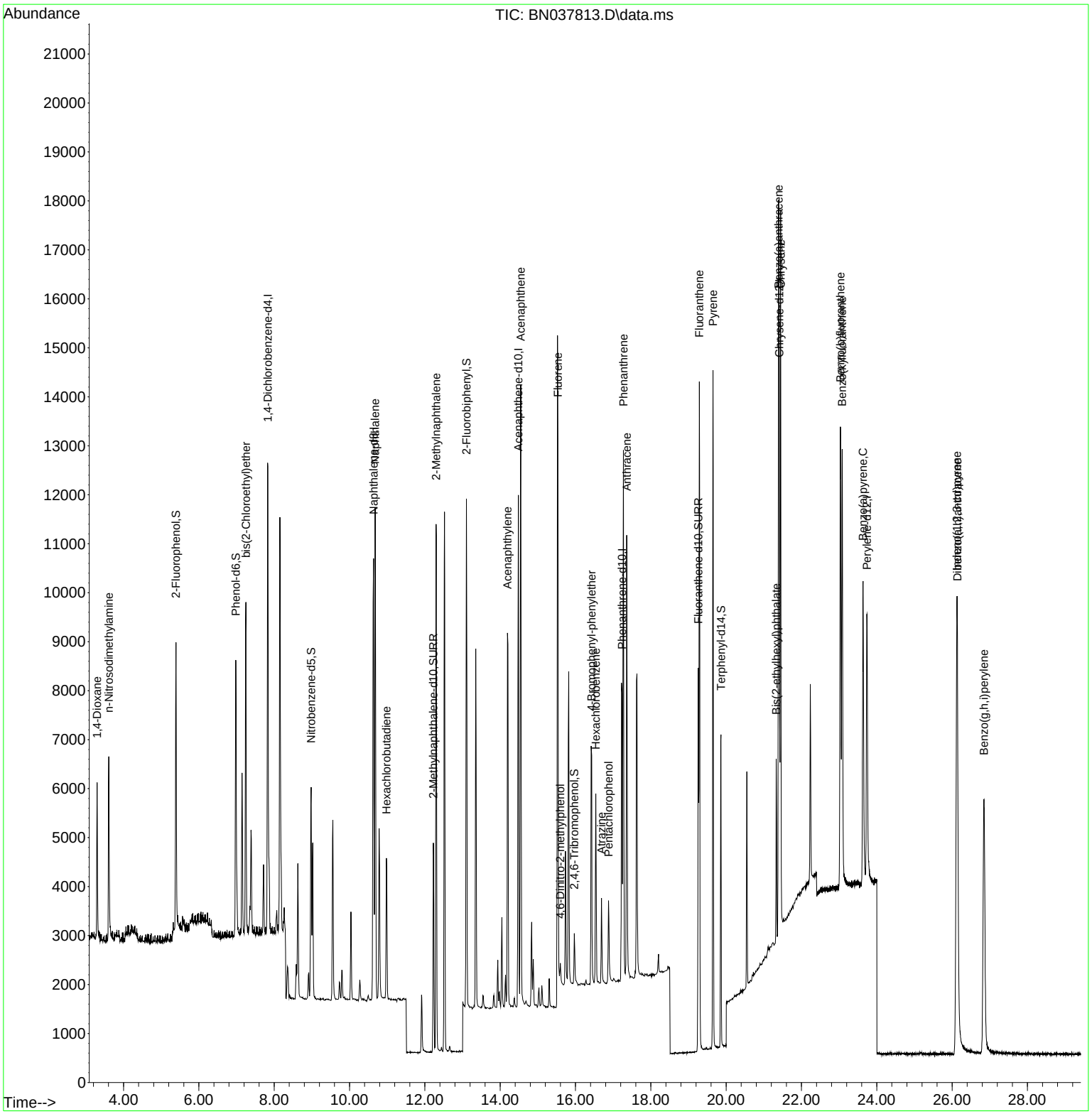
| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| Internal Standards | | | | | | | |
| 1) 1,4-Dichlorobenzene-d4 | 7.833 | 152 | 4812 | 0.400 | ng | | 0.00 |
| 7) Naphthalene-d8 | 10.637 | 136 | 12410 | 0.400 | ng | | -0.01 |
| 13) Acenaphthene-d10 | 14.484 | 164 | 5585 | 0.400 | ng | | -0.01 |
| 19) Phenanthrene-d10 | 17.235 | 188 | 9638 | 0.400 | ng | # | 0.00 |
| 29) Chrysene-d12 | 21.411 | 240 | 8466 | 0.400 | ng | | 0.00 |
| 35) Perylene-d12 | 23.739 | 264 | 8084 | 0.400 | ng | # | -0.01 |
| System Monitoring Compounds | | | | | | | |
| 4) 2-Fluorophenol | 5.392 | 112 | 4556 | 0.412 | ng | | 0.00 |
| 5) Phenol-d6 | 6.981 | 99 | 5192 | 0.362 | ng | | 0.00 |
| 8) Nitrobenzene-d5 | 8.982 | 82 | 3525 | 0.388 | ng | | -0.01 |
| 11) 2-Methylnaphthalene-d10 | 12.228 | 152 | 5866 | 0.357 | ng | | -0.02 |
| 14) 2,4,6-Tribromophenol | 15.969 | 330 | 674 | 0.463 | ng | | -0.01 |
| 15) 2-Fluorobiphenyl | 13.105 | 172 | 8872 | 0.380 | ng | | -0.01 |
| 27) Fluoranthene-d10 | 19.262 | 212 | 8646 | 0.357 | ng | | 0.00 |
| 31) Terphenyl-d14 | 19.861 | 244 | 6183 | 0.360 | ng | | 0.00 |
| Target Compounds | | | | | | | Qvalue |
| 2) 1,4-Dioxane | 3.297 | 88 | 1973 | 0.394 | ng | | 96 |
| 3) n-Nitrosodimethylamine | 3.608 | 42 | 2320 | 0.354 | ng | | 92 |
| 6) bis(2-Chloroethyl)ether | 7.248 | 93 | 4798 | 0.375 | ng | | 99 |
| 9) Naphthalene | 10.680 | 128 | 13094 | 0.386 | ng | | 99 |
| 10) Hexachlorobutadiene | 10.979 | 225 | 2398 | 0.391 | ng | # | 100 |
| 12) 2-Methylnaphthalene | 12.299 | 142 | 7752 | 0.369 | ng | | 98 |
| 16) Acenaphthylene | 14.195 | 152 | 9175 | 0.358 | ng | | 100 |
| 17) Acenaphthene | 14.548 | 154 | 6415 | 0.370 | ng | | 97 |
| 18) Fluorene | 15.535 | 166 | 7451 | 0.355 | ng | | 100 |
| 20) 4,6-Dinitro-2-methylph... | 15.597 | 198 | 309 | 0.346 | ng | # | 73 |
| 21) 4-Bromophenyl-phenylether | 16.429 | 248 | 2295 | 0.365 | ng | # | 95 |
| 22) Hexachlorobenzene | 16.540 | 284 | 3006 | 0.416 | ng | | 98 |
| 23) Atrazine | 16.689 | 200 | 1460 | 0.365 | ng | | 96 |
| 24) Pentachlorophenol | 16.876 | 266 | 969 | 0.462 | ng | | 96 |
| 25) Phenanthrene | 17.273 | 178 | 11575 | 0.381 | ng | | 100 |
| 26) Anthracene | 17.360 | 178 | 9951 | 0.370 | ng | | 99 |
| 28) Fluoranthene | 19.290 | 202 | 12394 | 0.372 | ng | | 100 |
| 30) Pyrene | 19.652 | 202 | 12322 | 0.372 | ng | | 100 |
| 32) Benzo(a)anthracene | 21.393 | 228 | 10829 | 0.367 | ng | | 99 |
| 33) Chrysene | 21.447 | 228 | 12256 | 0.387 | ng | | 99 |
| 34) Bis(2-ethylhexyl)phtha... | 21.331 | 149 | 3318 | 0.379 | ng | | 99 |
| 36) Indeno(1,2,3-cd)pyrene | 26.124 | 276 | 13502 | 0.398 | ng | | 98 |
| 37) Benzo(b)fluoranthene | 23.034 | 252 | 12627 | 0.397 | ng | # | 95 |
| 38) Benzo(k)fluoranthene | 23.081 | 252 | 12470 | 0.384 | ng | # | 95 |
| 39) Benzo(a)pyrene | 23.633 | 252 | 9793 | 0.384 | ng | # | 93 |
| 40) Dibenzo(a,h)anthracene | 26.139 | 278 | 10208 | 0.376 | ng | | 98 |
| 41) Benzo(g,h,i)perylene | 26.846 | 276 | 12010 | 0.395 | ng | | 99 |

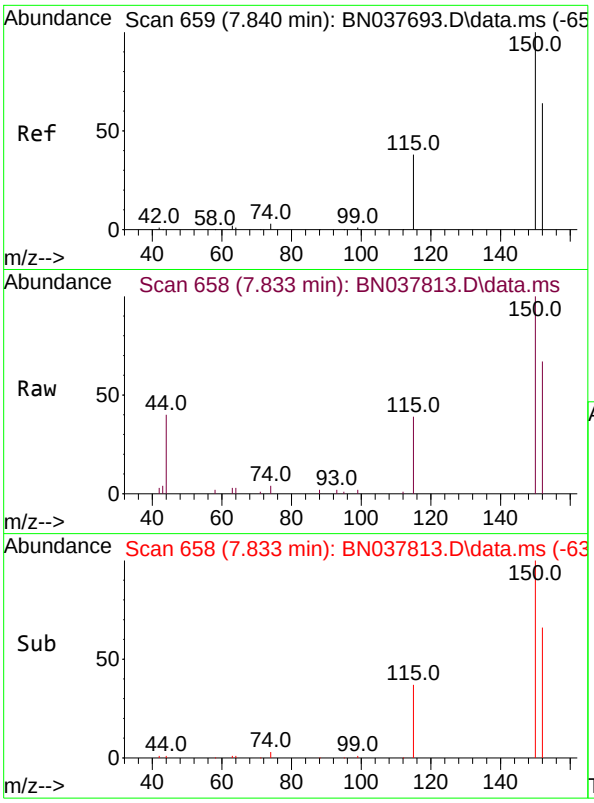
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN091925\
Data File : BN037813.D
Acq On : 19 Sep 2025 14:19
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 2 Sample Multiplier: 1

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4

Quant Time: Sep 19 15:09:21 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN091125.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Sep 11 14:20:01 2025
Response via : Initial Calibration



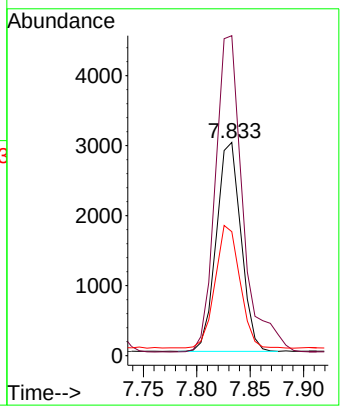


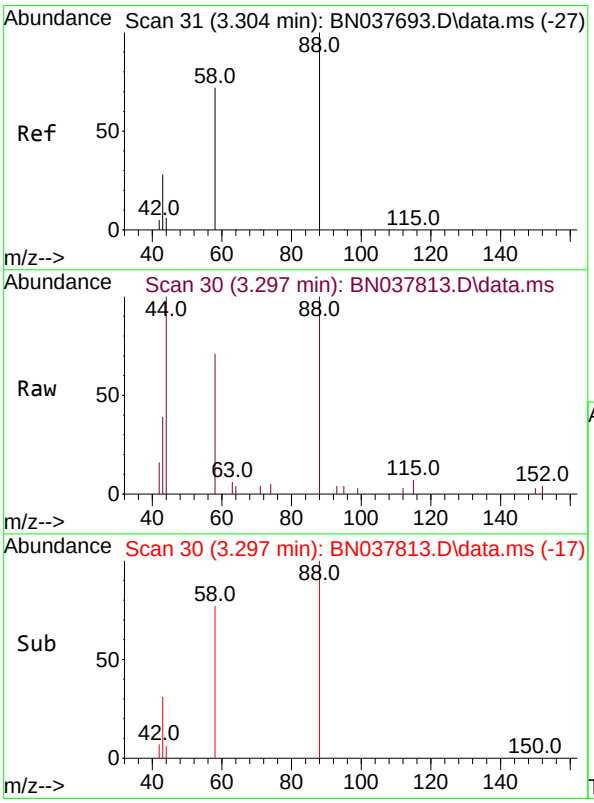

#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.833 min Scan# 6
Delta R.T. -0.007 min
Lab File: BN037813.D
Acq: 19 Sep 2025 14:19

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4

Tgt Ion:152 Resp: 4812

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 150 | 150.0 | 124.5 | 186.7 |
| 115 | 58.1 | 49.2 | 73.8 |

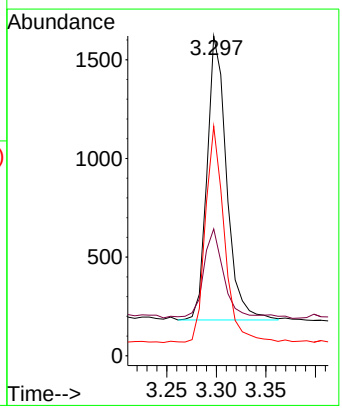


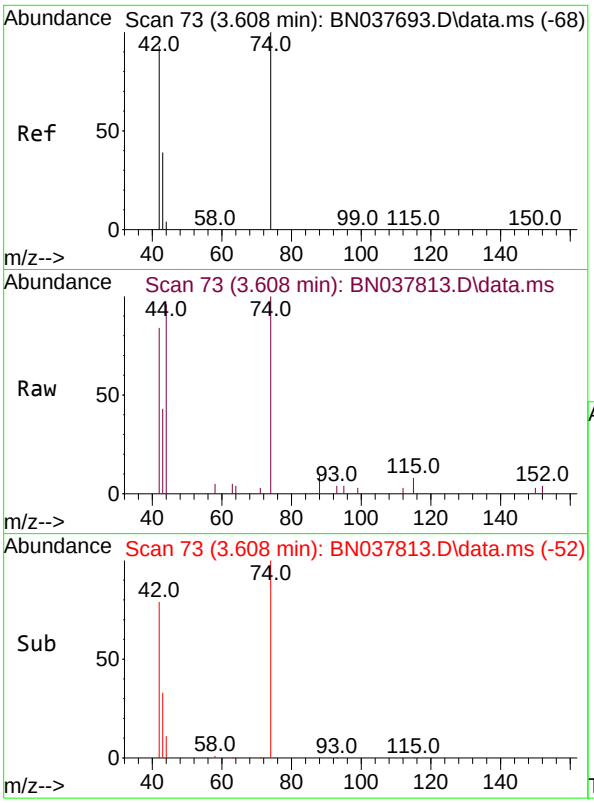




#2
1,4-Dioxane
Concen: 0.394 ng
RT: 3.297 min Scan# 30
Delta R.T. -0.007 min
Lab File: BN037813.D
Acq: 19 Sep 2025 14:19

Tgt Ion: 88 Resp: 1973

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 88 | 100 | | |
| 43 | 30.5 | 26.8 | 40.2 |
| 58 | 74.5 | 61.9 | 92.9 |



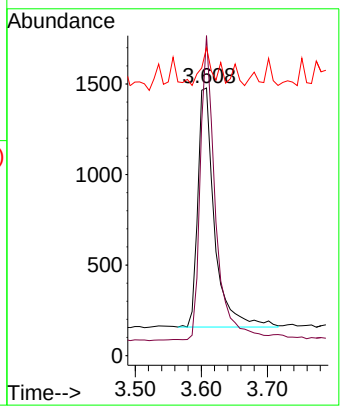


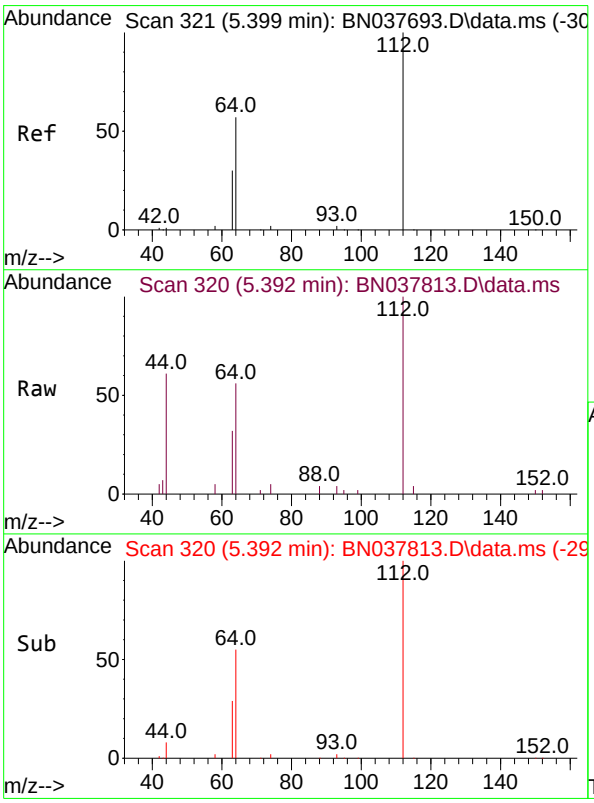

#3
n-Nitrosodimethylamine
Concen: 0.354 ng
RT: 3.608 min Scan# 7
Delta R.T. 0.000 min
Lab File: BN037813.D
Acq: 19 Sep 2025 14:19

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4

Tgt Ion: 42 Resp: 2320

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 42 | 100 | | |
| 74 | 116.8 | 86.0 | 129.0 |
| 44 | 10.1 | 8.4 | 12.6 |

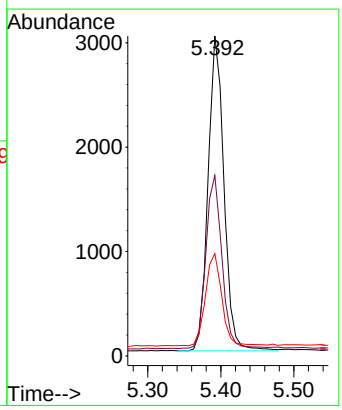


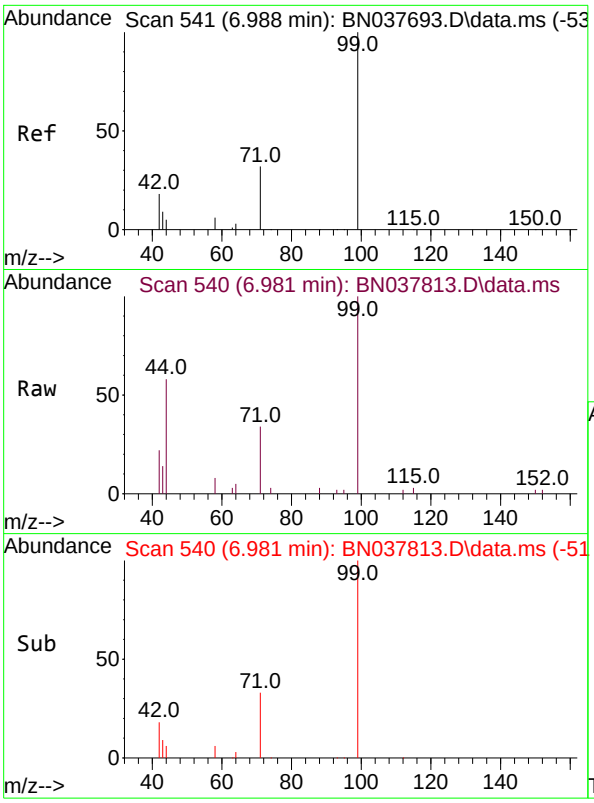




#4
2-Fluorophenol
Concen: 0.412 ng
RT: 5.392 min Scan# 320
Delta R.T. -0.007 min
Lab File: BN037813.D
Acq: 19 Sep 2025 14:19

Tgt Ion:112 Resp: 4556

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 112 | 100 | | |
| 64 | 55.9 | 44.9 | 67.3 |
| 63 | 30.0 | 24.7 | 37.1 |



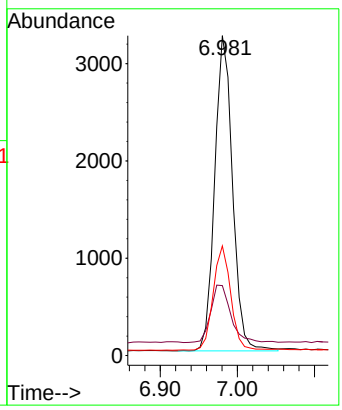


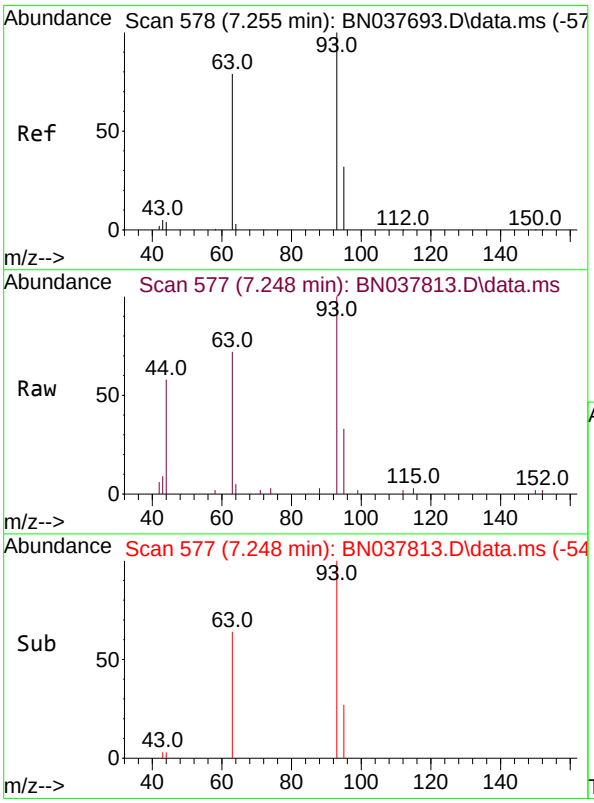

#5
Phenol-d6
Concen: 0.362 ng
RT: 6.981 min Scan# 54
Delta R.T. -0.007 min
Lab File: BN037813.D
Acq: 19 Sep 2025 14:19

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4

Tgt Ion: 99 Resp: 5192

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 99 | 100 | | |
| 42 | 20.6 | 16.6 | 24.8 |
| 71 | 33.1 | 26.7 | 40.1 |

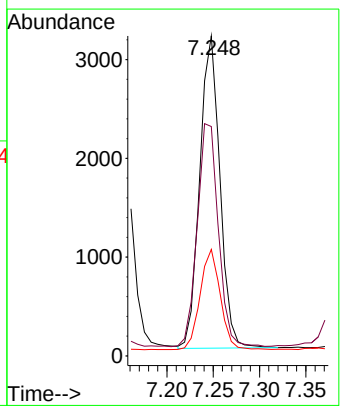


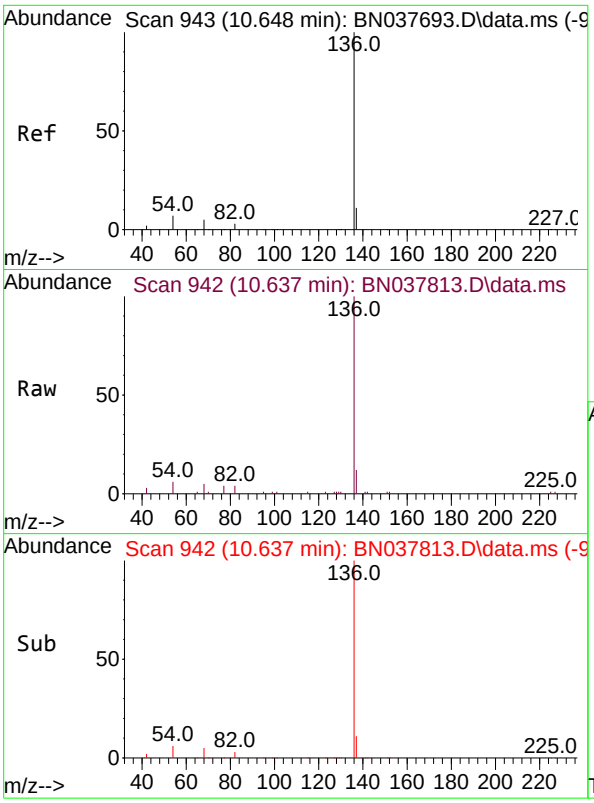




#6
bis(2-Chloroethyl)ether
Concen: 0.375 ng
RT: 7.248 min Scan# 577
Delta R.T. -0.007 min
Lab File: BN037813.D
Acq: 19 Sep 2025 14:19

Tgt Ion: 93 Resp: 4798

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 93 | 100 | | |
| 63 | 74.7 | 60.6 | 90.8 |
| 95 | 32.1 | 26.0 | 39.0 |



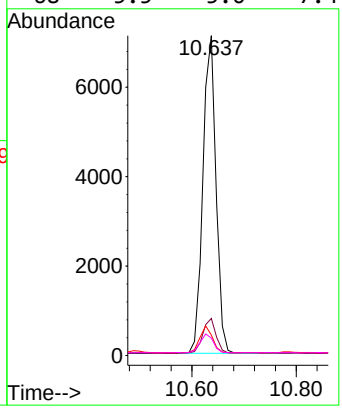


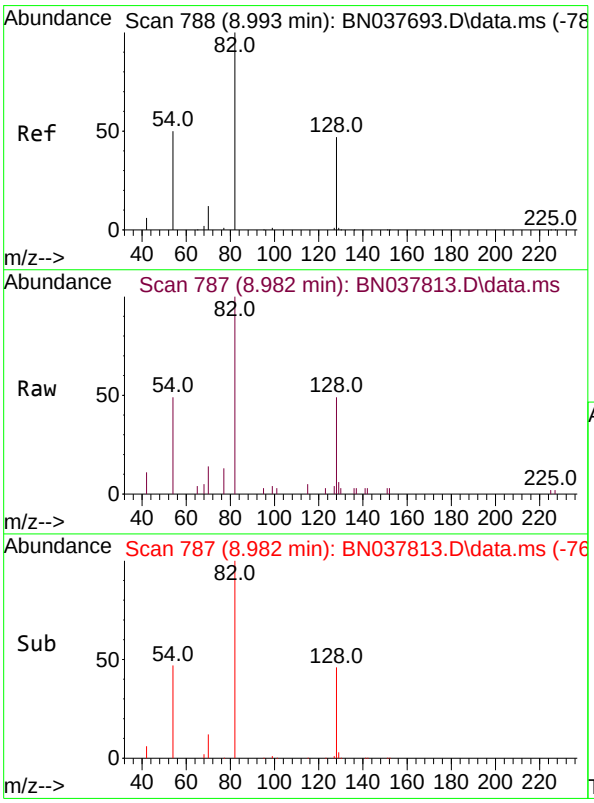

#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.637 min Scan# 94
Delta R.T. -0.011 min
Lab File: BN037813.D
Acq: 19 Sep 2025 14:19

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4

Tgt Ion:136 Resp: 12410

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 136 | 100 | | |
| 137 | 11.6 | 9.1 | 13.7 |
| 54 | 6.4 | 6.3 | 9.5 |
| 68 | 5.5 | 5.0 | 7.4 |

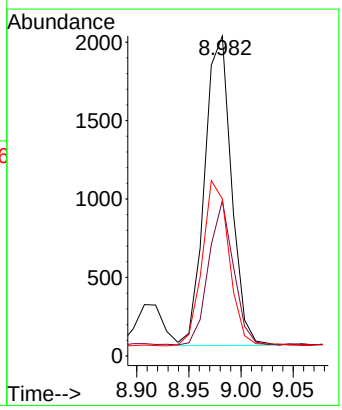


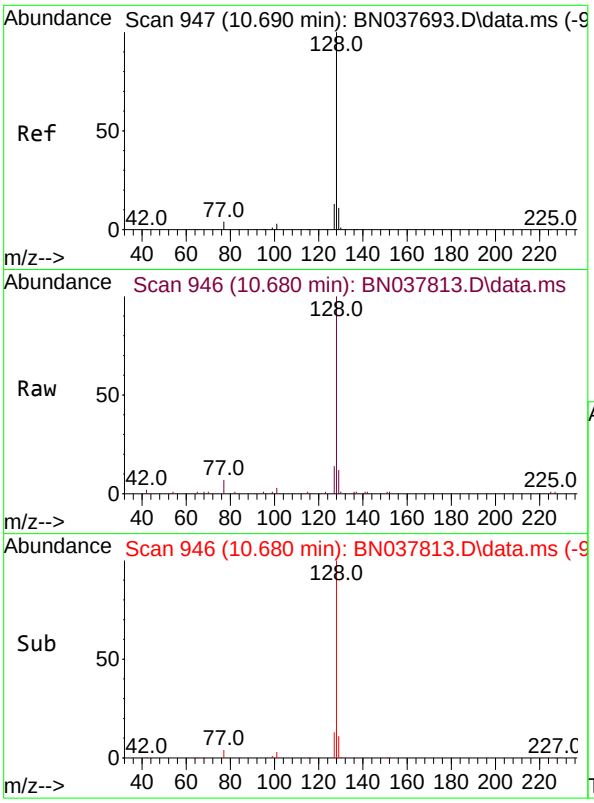




#8
Nitrobenzene-d5
Concen: 0.388 ng
RT: 8.982 min Scan# 787
Delta R.T. -0.011 min
Lab File: BN037813.D
Acq: 19 Sep 2025 14:19

Tgt Ion: 82 Resp: 3525

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 82 | 100 | | |
| 128 | 48.5 | 38.3 | 57.5 |
| 54 | 49.1 | 41.4 | 62.2 |



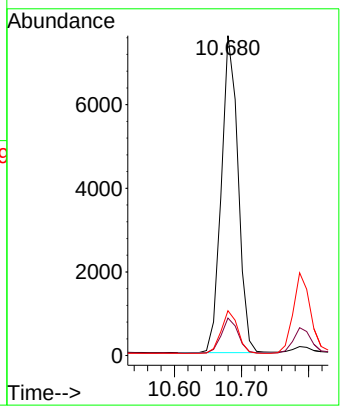


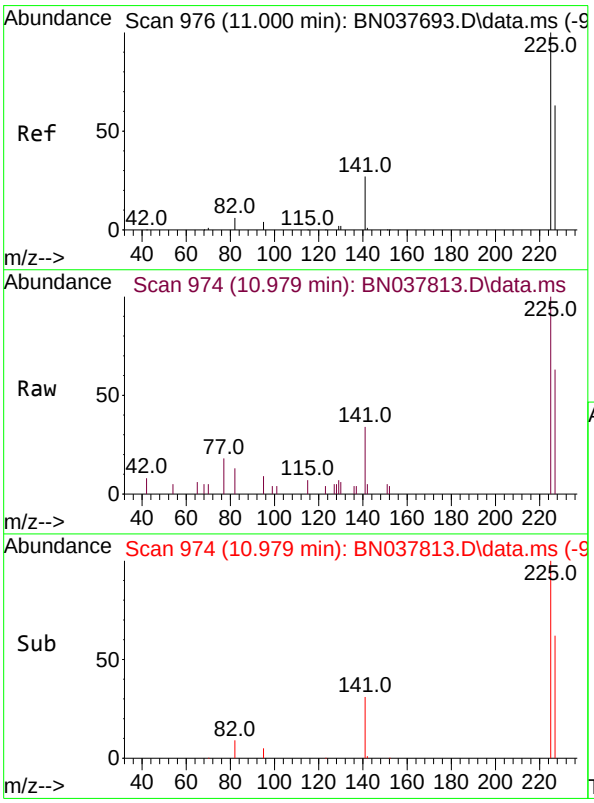

#9
Naphthalene
Concen: 0.386 ng
RT: 10.680 min Scan# 94
Delta R.T. -0.011 min
Lab File: BN037813.D
Acq: 19 Sep 2025 14:19

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4

Tgt Ion:128 Resp: 13094

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 128 | 100 | | |
| 129 | 11.7 | 9.1 | 13.7 |
| 127 | 14.0 | 10.9 | 16.3 |

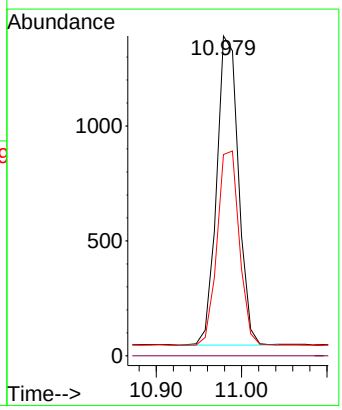


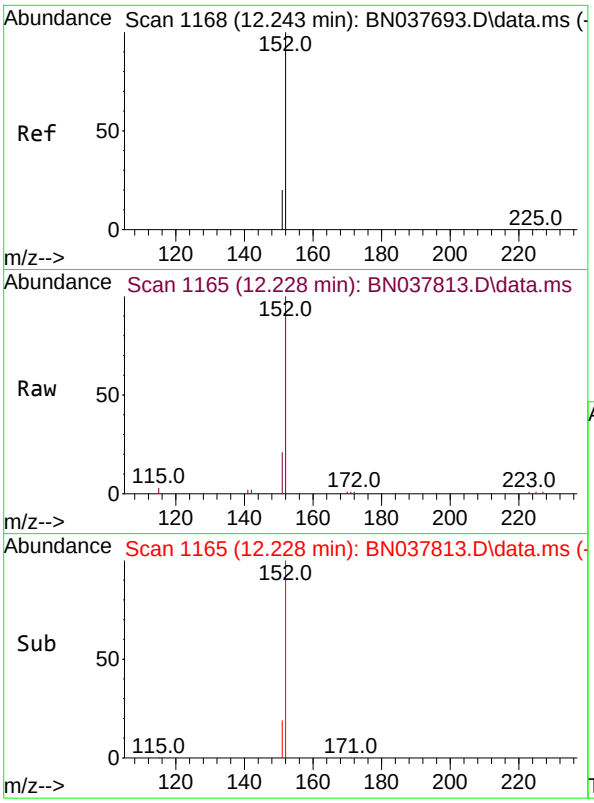




#10
Hexachlorobutadiene
Concen: 0.391 ng
RT: 10.979 min Scan# 974
Delta R.T. -0.021 min
Lab File: BN037813.D
Acq: 19 Sep 2025 14:19

Tgt Ion:225 Resp: 2398

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 225 | 100 | | |
| 223 | 0.0 | 0.0 | 0.0 |
| 227 | 64.0 | 50.9 | 76.3 |



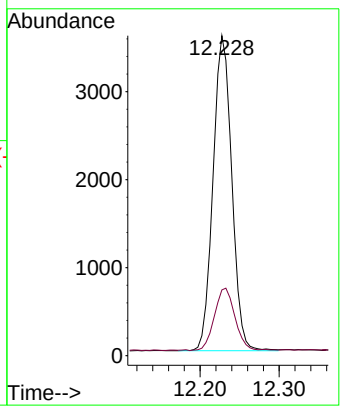


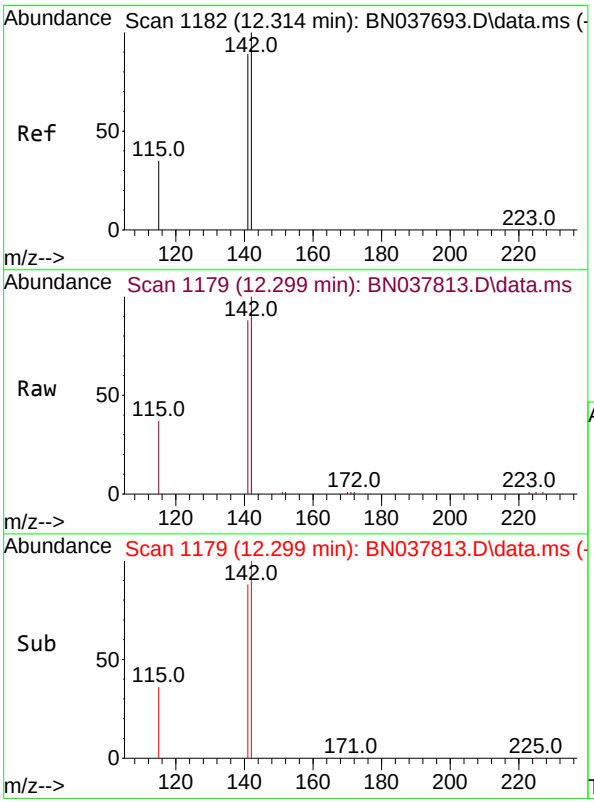

#11
2-Methylnaphthalene-d10
Concen: 0.357 ng
RT: 12.228 min Scan# 11
Delta R.T. -0.015 min
Lab File: BN037813.D
Acq: 19 Sep 2025 14:19

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4

Tgt Ion:152 Resp: 5866

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

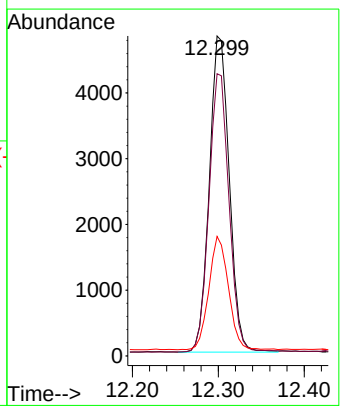


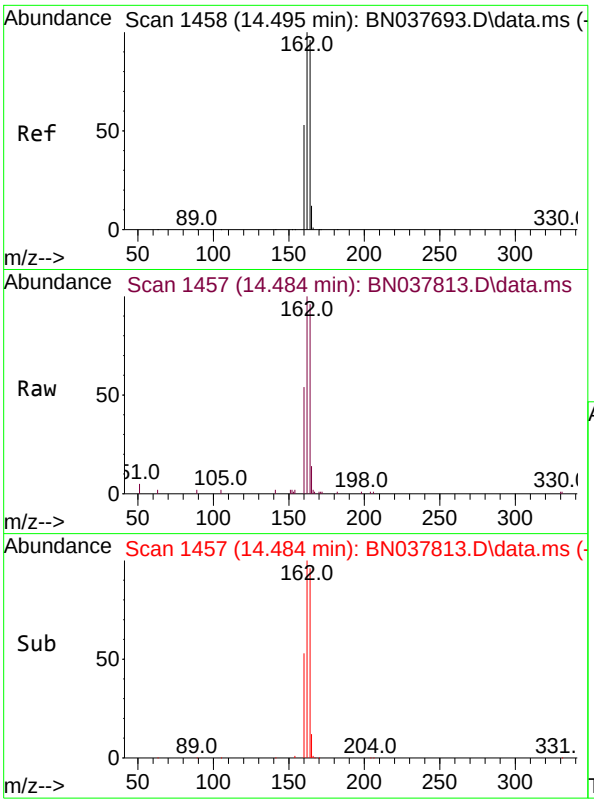




#12
2-Methylnaphthalene
Concen: 0.369 ng
RT: 12.299 min Scan# 1179
Delta R.T. -0.015 min
Lab File: BN037813.D
Acq: 19 Sep 2025 14:19

Tgt Ion:142 Resp: 7752

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 142 | 100 | | |
| 141 | 88.2 | 71.6 | 107.4 |
| 115 | 37.3 | 28.6 | 43.0 |



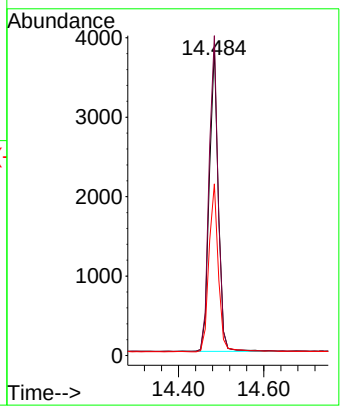


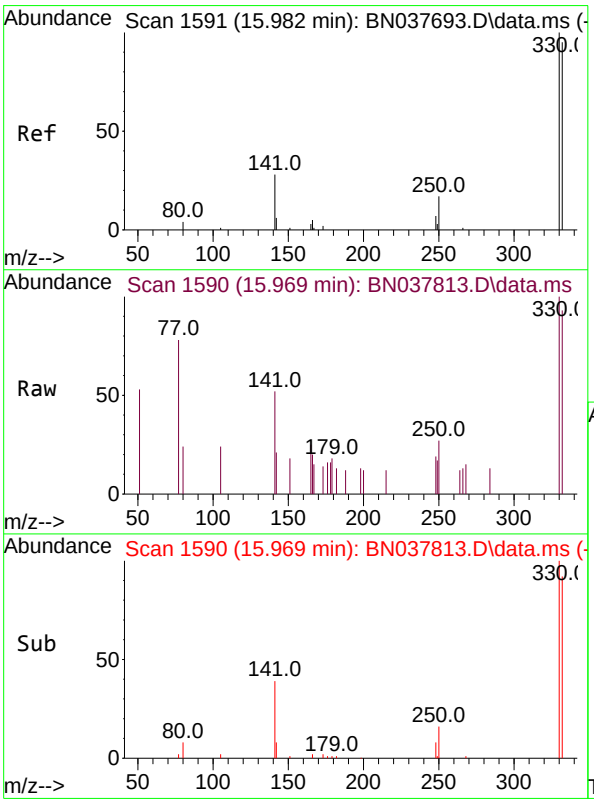

#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.484 min Scan# 14
Delta R.T. -0.011 min
Lab File: BN037813.D
Acq: 19 Sep 2025 14:19

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4

Tgt Ion:164 Resp: 5585

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 164 | 100 | | |
| 162 | 104.0 | 83.1 | 124.7 |
| 160 | 55.8 | 44.3 | 66.5 |

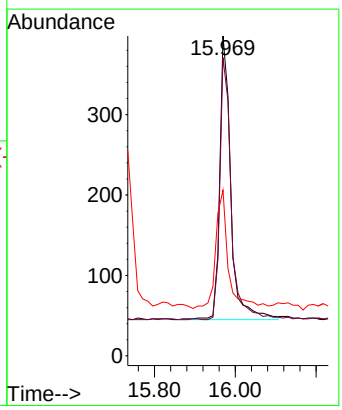


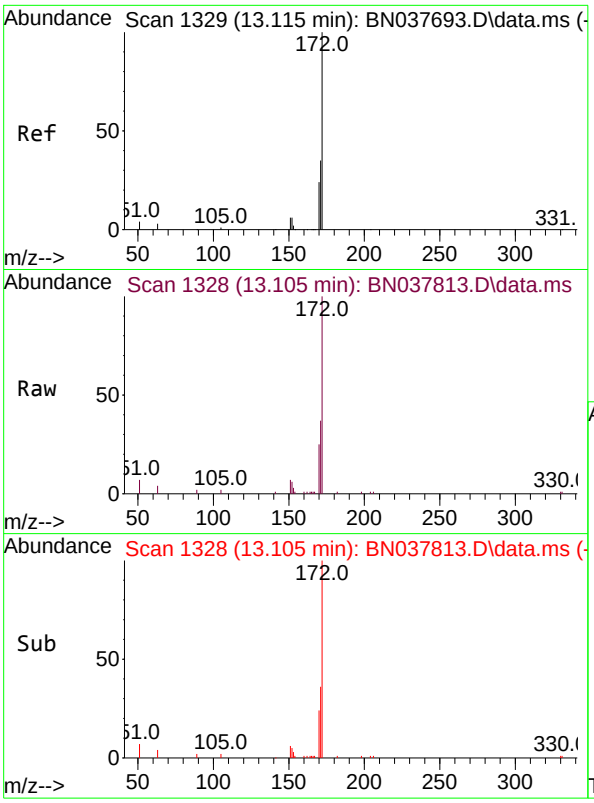




#14
2,4,6-Tribromophenol
Concen: 0.463 ng
RT: 15.969 min Scan# 1590
Delta R.T. -0.013 min
Lab File: BN037813.D
Acq: 19 Sep 2025 14:19

Tgt Ion:330 Resp: 674

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 330 | 100 | | |
| 332 | 94.2 | 75.3 | 112.9 |
| 141 | 47.2 | 35.0 | 52.4 |



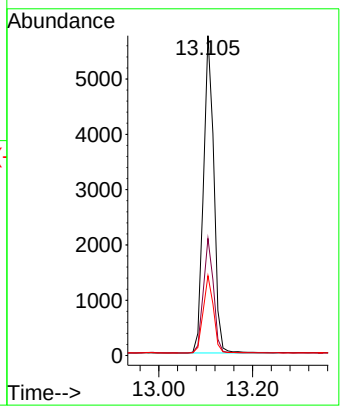


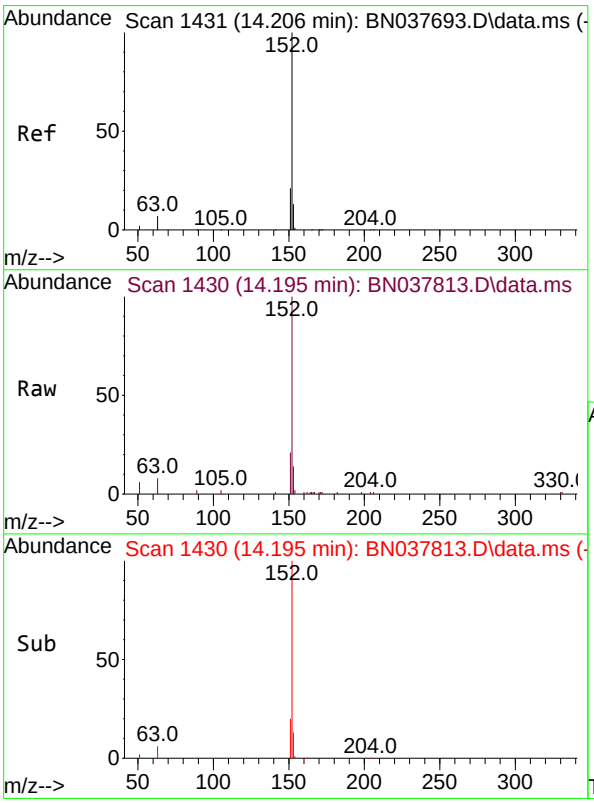

#15
2-Fluorobiphenyl
Concen: 0.380 ng
RT: 13.105 min Scan# 1
Delta R.T. -0.011 min
Lab File: BN037813.D
Acq: 19 Sep 2025 14:19

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4

Tgt Ion:172 Resp: 8872

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 172 | 100 | | |
| 171 | 36.6 | 28.6 | 43.0 |
| 170 | 25.0 | 19.8 | 29.8 |

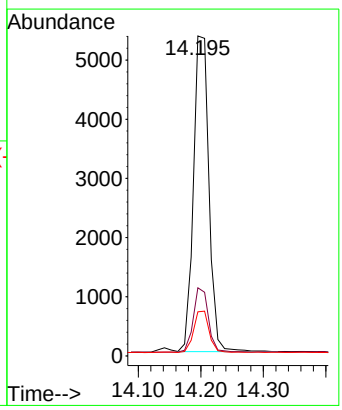


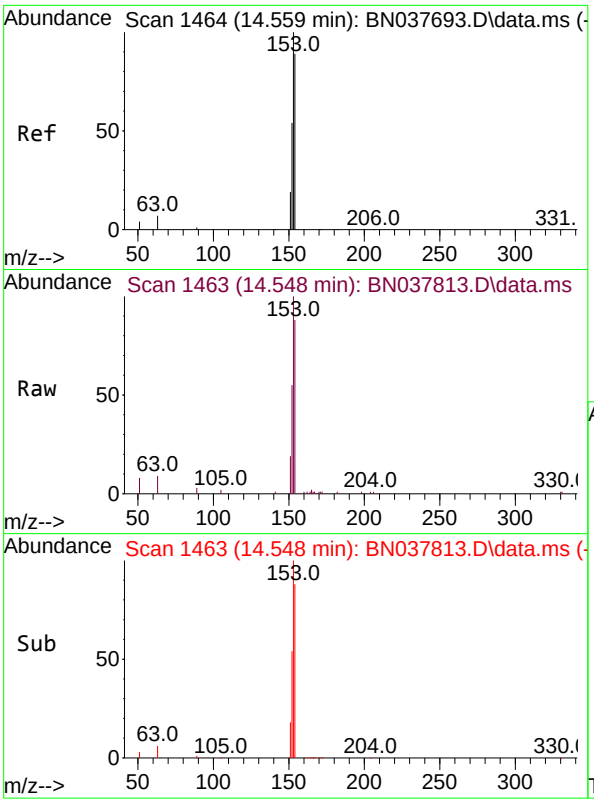




#16
Acenaphthylene
Concen: 0.358 ng
RT: 14.195 min Scan# 1430
Delta R.T. -0.011 min
Lab File: BN037813.D
Acq: 19 Sep 2025 14:19

Tgt Ion:152 Resp: 9175

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 151 | 20.1 | 16.2 | 24.2 |
| 153 | 13.4 | 10.4 | 15.6 |



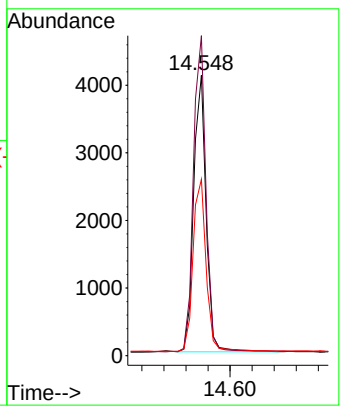


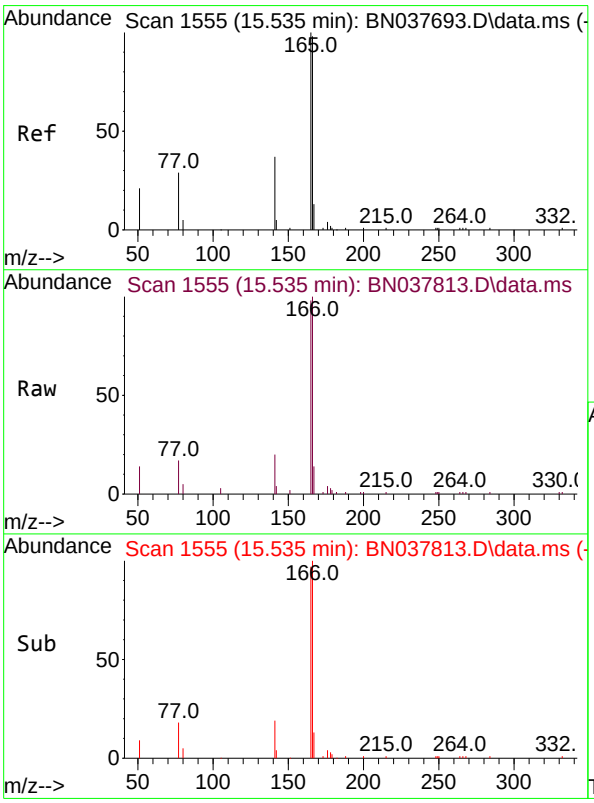

#17
Acenaphthene
Concen: 0.370 ng
RT: 14.548 min Scan# 14
Delta R.T. -0.011 min
Lab File: BN037813.D
Acq: 19 Sep 2025 14:19

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4

Tgt Ion:154 Resp: 6415

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 154 | 100 | | |
| 153 | 115.7 | 89.8 | 134.8 |
| 152 | 65.5 | 50.2 | 75.2 |

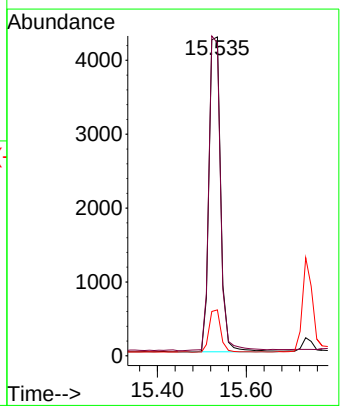


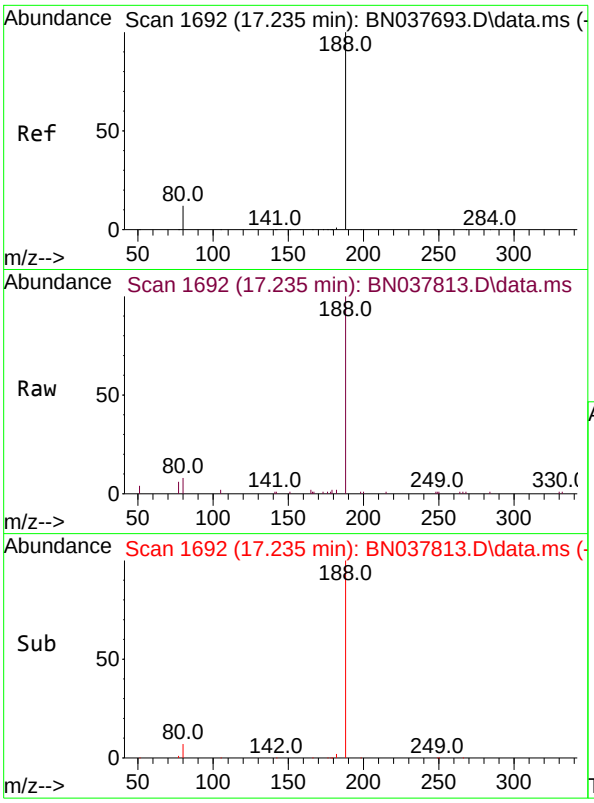




#18
Fluorene
Concen: 0.355 ng
RT: 15.535 min Scan# 1555
Delta R.T. 0.000 min
Lab File: BN037813.D
Acq: 19 Sep 2025 14:19

Tgt Ion:166 Resp: 7451

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 166 | 100 | | |
| 165 | 99.6 | 79.6 | 119.4 |
| 167 | 13.8 | 10.6 | 16.0 |



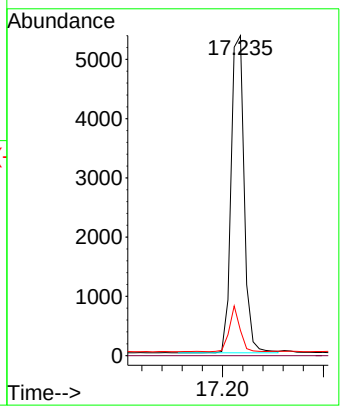


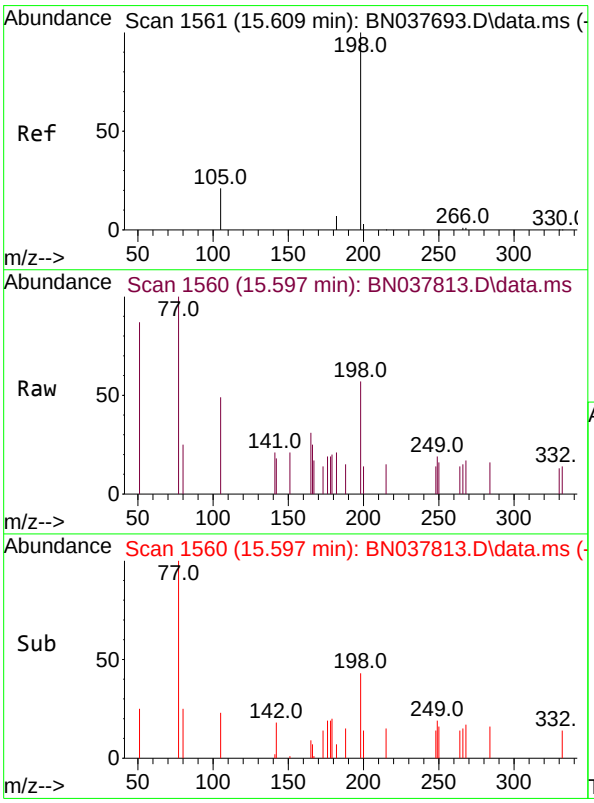

#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.235 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN037813.D
Acq: 19 Sep 2025 14:19

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4

Tgt Ion:188 Resp: 9638

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 188 | 100 | | |
| 94 | 0.0 | 0.0 | 0.0 |
| 80 | 7.9 | 10.6 | 15.8# |

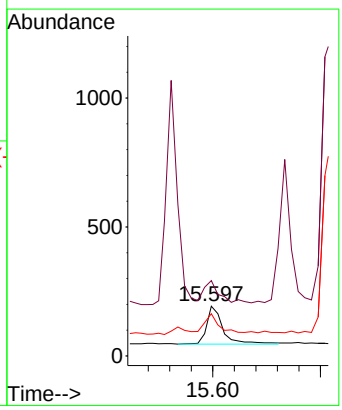


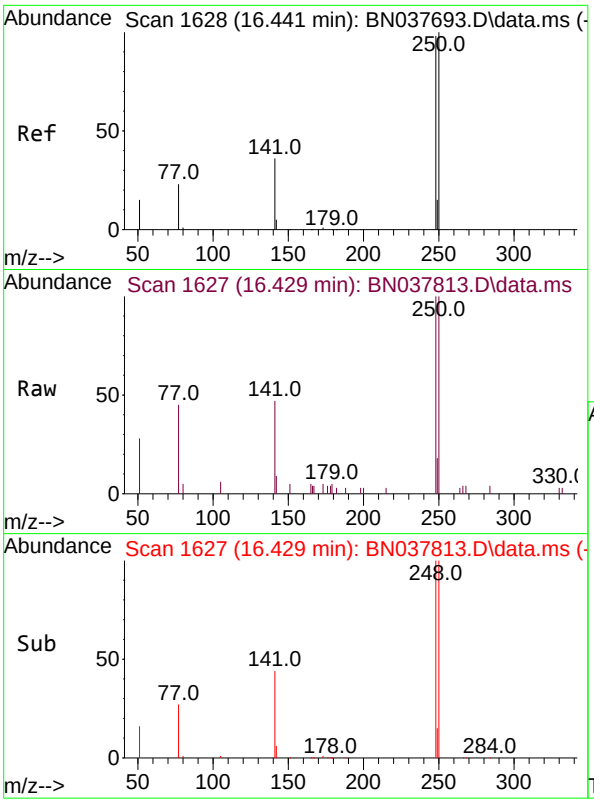




#20
4,6-Dinitro-2-methylphenol
Concen: 0.346 ng
RT: 15.597 min Scan# 1560
Delta R.T. -0.012 min
Lab File: BN037813.D
Acq: 19 Sep 2025 14:19

Tgt Ion:198 Resp: 309

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 198 | 100 | | |
| 51 | 151.3 | 95.1 | 142.7# |
| 105 | 85.0 | 53.8 | 80.6# |



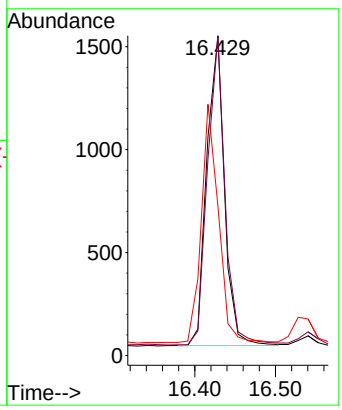


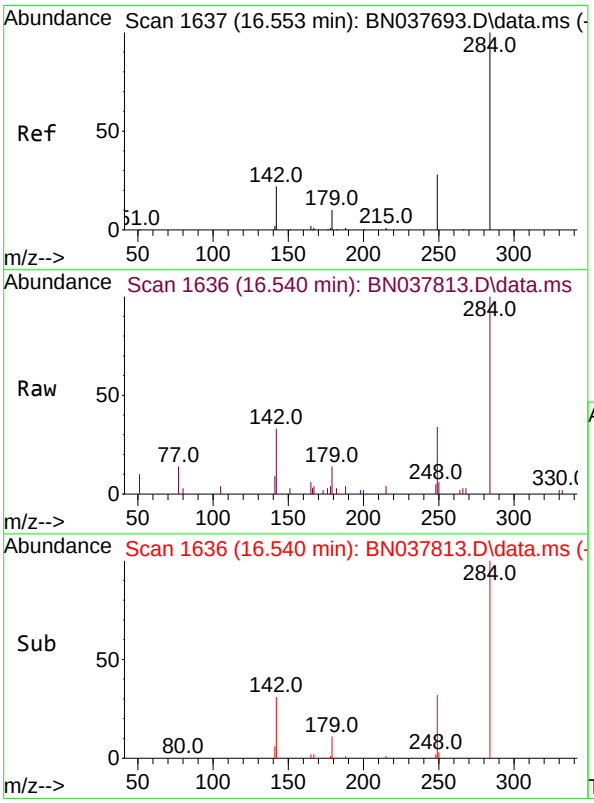

#21
4-Bromophenyl-phenylether
Concen: 0.365 ng
RT: 16.429 min Scan# 1
Delta R.T. -0.012 min
Lab File: BN037813.D
Acq: 19 Sep 2025 14:19

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4

Tgt Ion:248 Resp: 2295

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 248 | 100 | | |
| 250 | 100.1 | 81.5 | 122.3 |
| 141 | 46.9 | 30.8 | 46.2# |

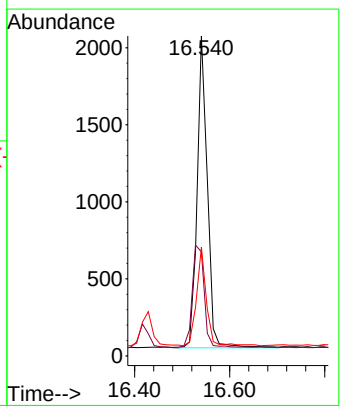


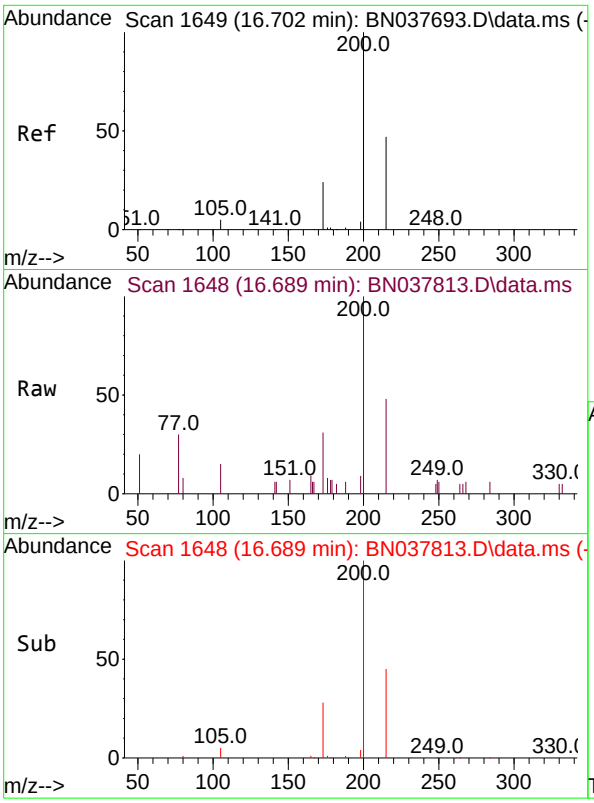




#22
Hexachlorobenzene
Concen: 0.416 ng
RT: 16.540 min Scan# 1636
Delta R.T. -0.012 min
Lab File: BN037813.D
Acq: 19 Sep 2025 14:19

Tgt Ion:284 Resp: 3006

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 284 | 100 | | |
| 142 | 38.9 | 30.9 | 46.3 |
| 249 | 28.8 | 24.8 | 37.2 |



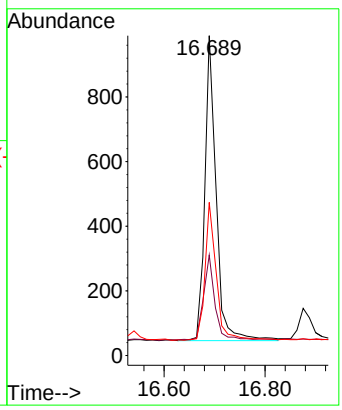


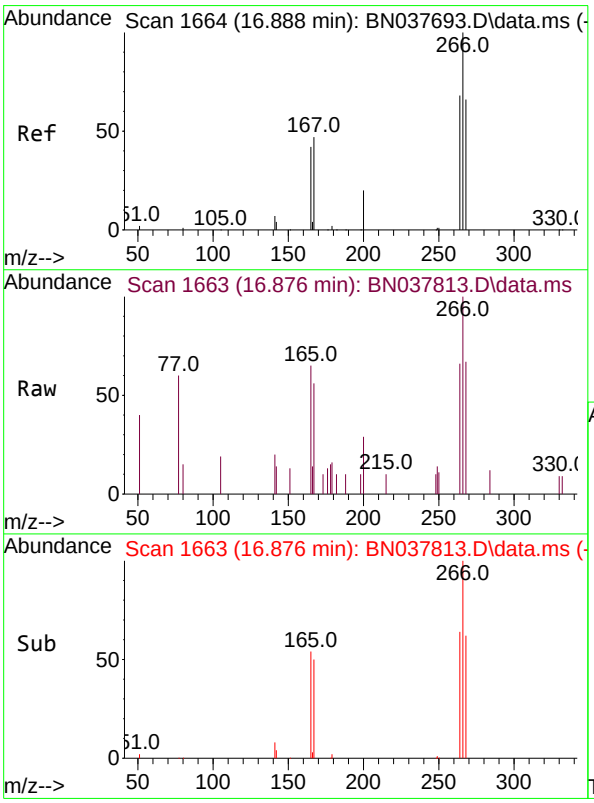

#23
Atrazine
Concen: 0.365 ng
RT: 16.689 min Scan# 1
Delta R.T. -0.012 min
Lab File: BN037813.D
Acq: 19 Sep 2025 14:19

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4

Tgt Ion:200 Resp: 1460

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 200 | 100 | | |
| 173 | 31.4 | 21.4 | 32.2 |
| 215 | 47.9 | 39.2 | 58.8 |

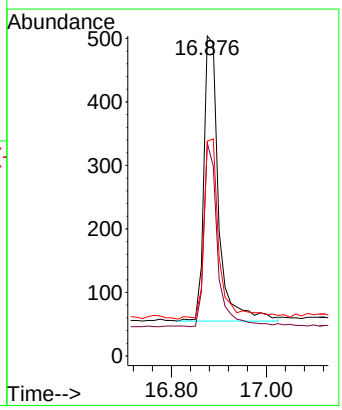


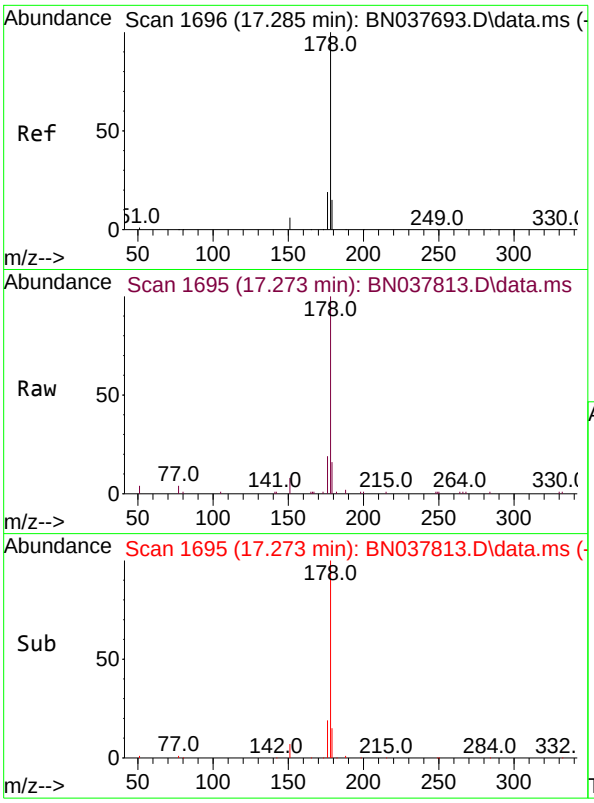




#24
Pentachlorophenol
Concen: 0.462 ng
RT: 16.876 min Scan# 1663
Delta R.T. -0.012 min
Lab File: BN037813.D
Acq: 19 Sep 2025 14:19

Tgt Ion:266 Resp: 969

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 266 | 100 | | |
| 264 | 59.3 | 51.6 | 77.4 |
| 268 | 65.4 | 53.2 | 79.8 |



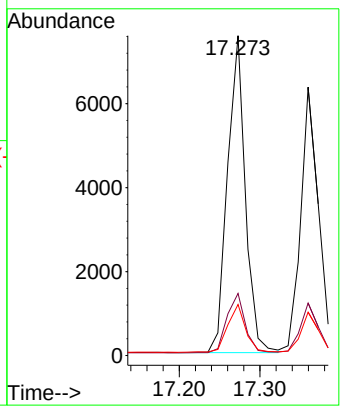


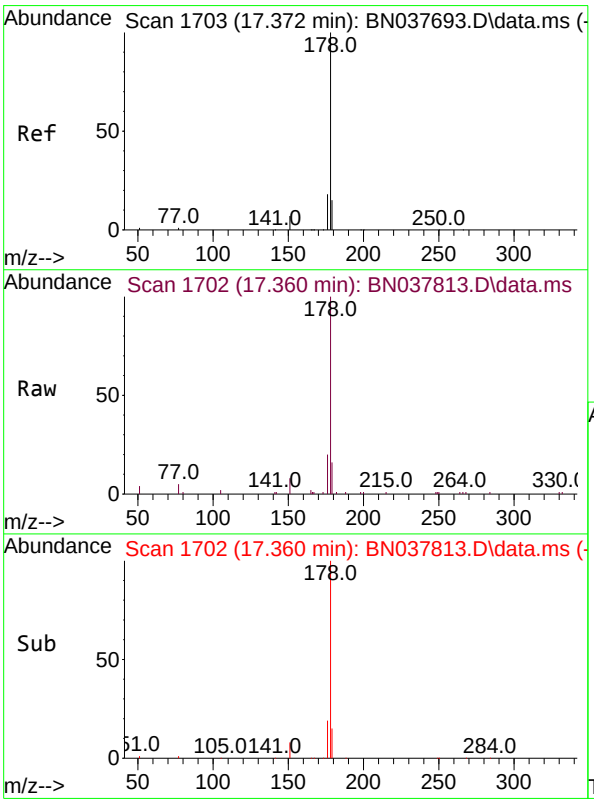

#25
Phenanthrene
Concen: 0.381 ng
RT: 17.273 min Scan# 1
Delta R.T. -0.012 min
Lab File: BN037813.D
Acq: 19 Sep 2025 14:19

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4

Tgt Ion:178 Resp: 11575

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 178 | 100 | | |
| 176 | 19.3 | 15.3 | 22.9 |
| 179 | 15.3 | 12.2 | 18.2 |

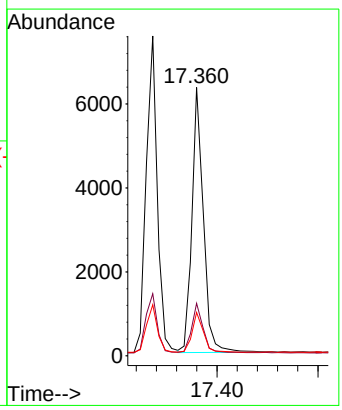


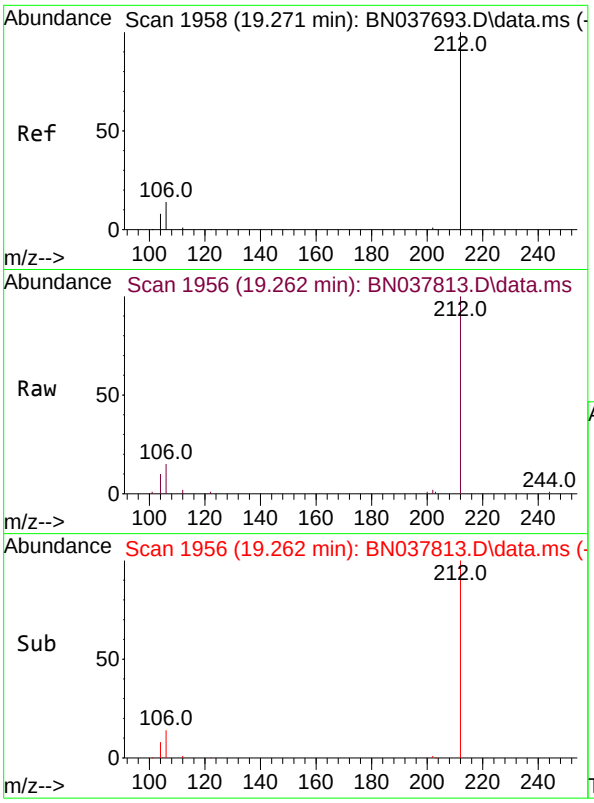




#26
Anthracene
Concen: 0.370 ng
RT: 17.360 min Scan# 1702
Delta R.T. -0.012 min
Lab File: BN037813.D
Acq: 19 Sep 2025 14:19

Tgt Ion:178 Resp: 9951

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 178 | 100 | | |
| 176 | 18.6 | 14.6 | 22.0 |
| 179 | 14.9 | 12.2 | 18.4 |



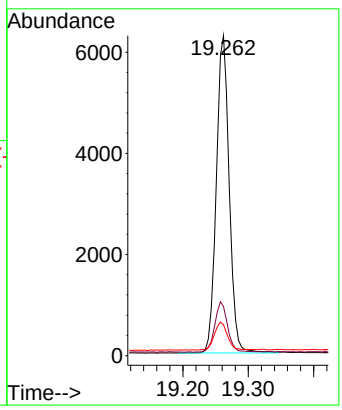


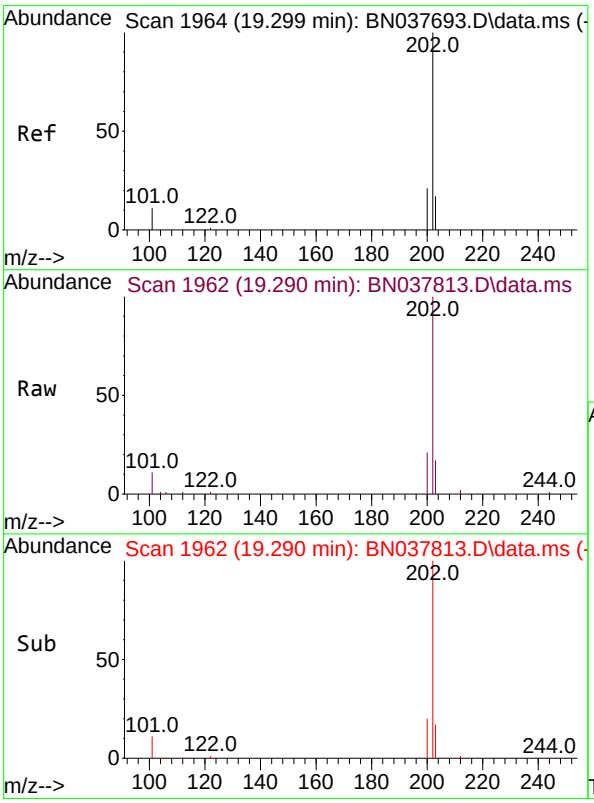

#27
Fluoranthene-d10
Concen: 0.357 ng
RT: 19.262 min Scan# 19
Delta R.T. -0.009 min
Lab File: BN037813.D
Acq: 19 Sep 2025 14:19

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4

Tgt Ion:212 Resp: 8646

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 212 | 100 | | |
| 106 | 15.8 | 12.2 | 18.2 |
| 104 | 8.9 | 6.9 | 10.3 |

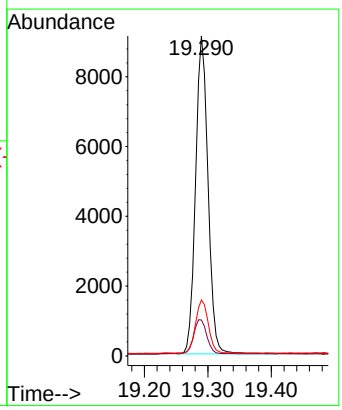


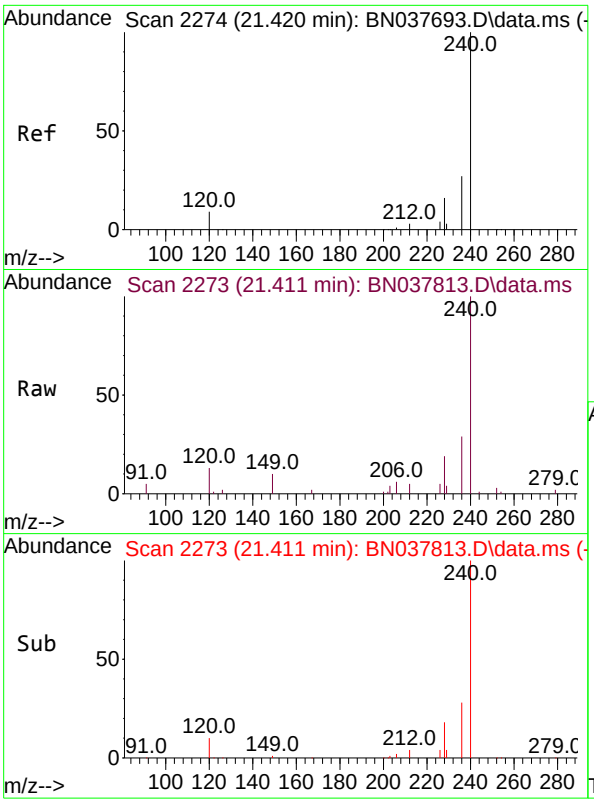




#28
Fluoranthene
Concen: 0.372 ng
RT: 19.290 min Scan# 1962
Delta R.T. -0.009 min
Lab File: BN037813.D
Acq: 19 Sep 2025 14:19

Tgt Ion:202 Resp: 12394

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 202 | 100 | | |
| 101 | 11.4 | 9.3 | 13.9 |
| 203 | 17.0 | 13.7 | 20.5 |



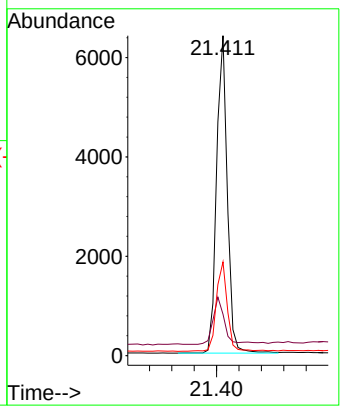


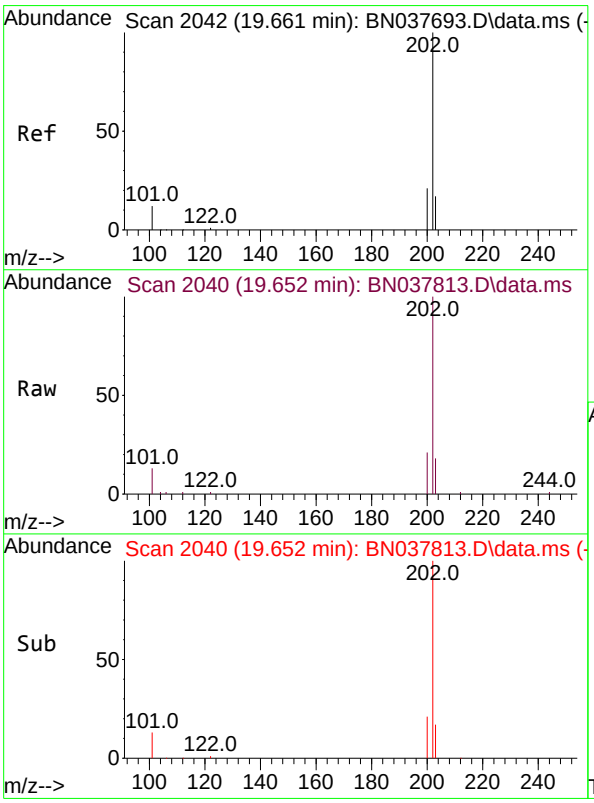

#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.411 min Scan# 21
Delta R.T. -0.009 min
Lab File: BN037813.D
Acq: 19 Sep 2025 14:19

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4

Tgt Ion:240 Resp: 8466

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 240 | 100 | | |
| 120 | 12.9 | 9.2 | 13.8 |
| 236 | 29.3 | 22.6 | 33.8 |

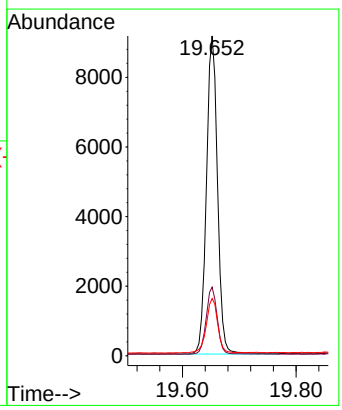


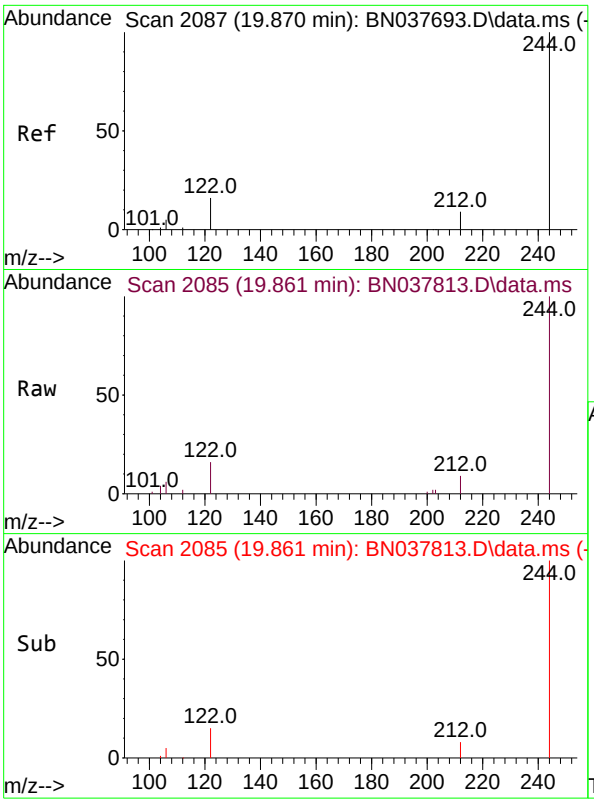




#30
Pyrene
Concen: 0.372 ng
RT: 19.652 min Scan# 2040
Delta R.T. -0.009 min
Lab File: BN037813.D
Acq: 19 Sep 2025 14:19

Tgt Ion:202 Resp: 12322

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 202 | 100 | | |
| 200 | 21.1 | 16.8 | 25.2 |
| 203 | 17.6 | 14.3 | 21.5 |



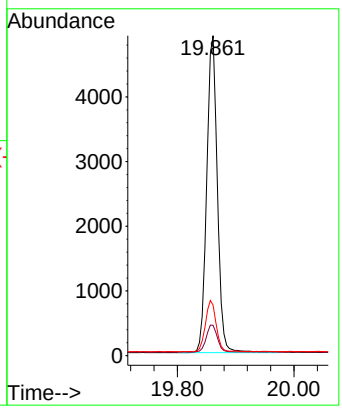


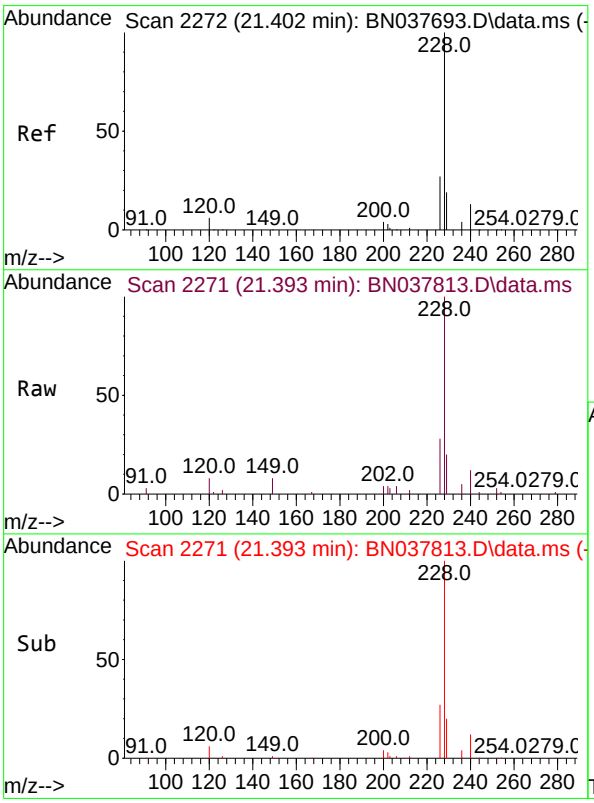

#31
Terphenyl-d14
Concen: 0.360 ng
RT: 19.861 min Scan# 20
Delta R.T. -0.009 min
Lab File: BN037813.D
Acq: 19 Sep 2025 14:19

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4

Tgt Ion:244 Resp: 6183

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 244 | 100 | | |
| 212 | 9.5 | 7.5 | 11.3 |
| 122 | 15.8 | 13.2 | 19.8 |

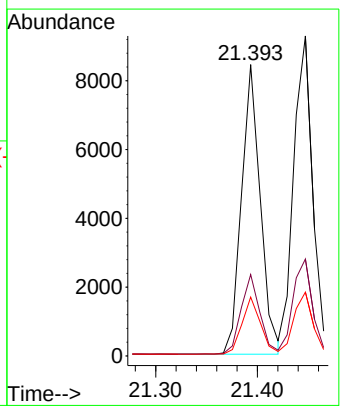


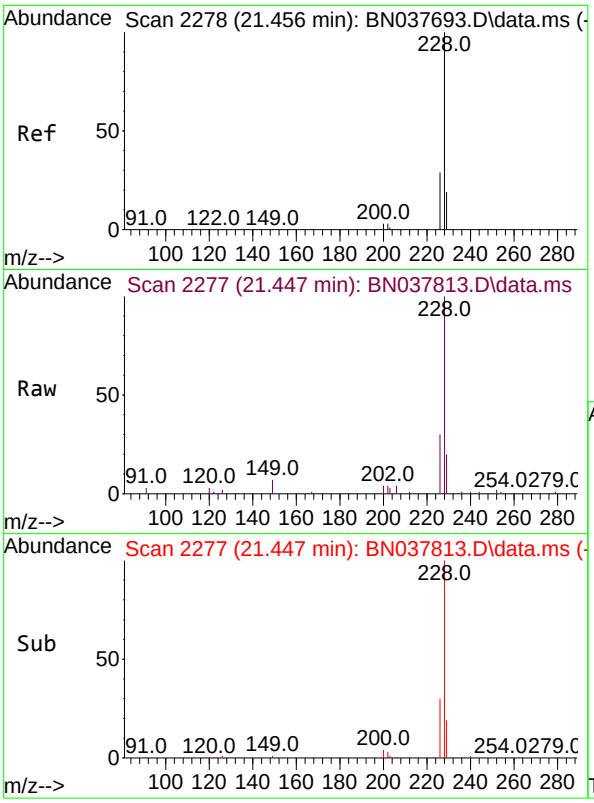




#32
Benzo(a)anthracene
Concen: 0.367 ng
RT: 21.393 min Scan# 2271
Delta R.T. -0.009 min
Lab File: BN037813.D
Acq: 19 Sep 2025 14:19

Tgt Ion:228 Resp: 10829

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 228 | 100 | | |
| 226 | 27.9 | 22.2 | 33.2 |
| 229 | 20.2 | 15.8 | 23.6 |



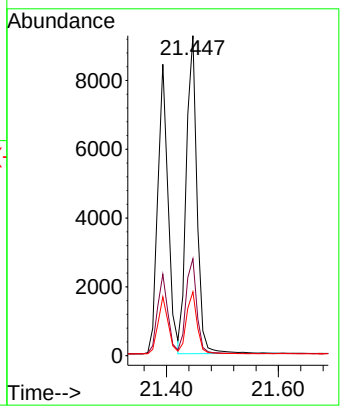


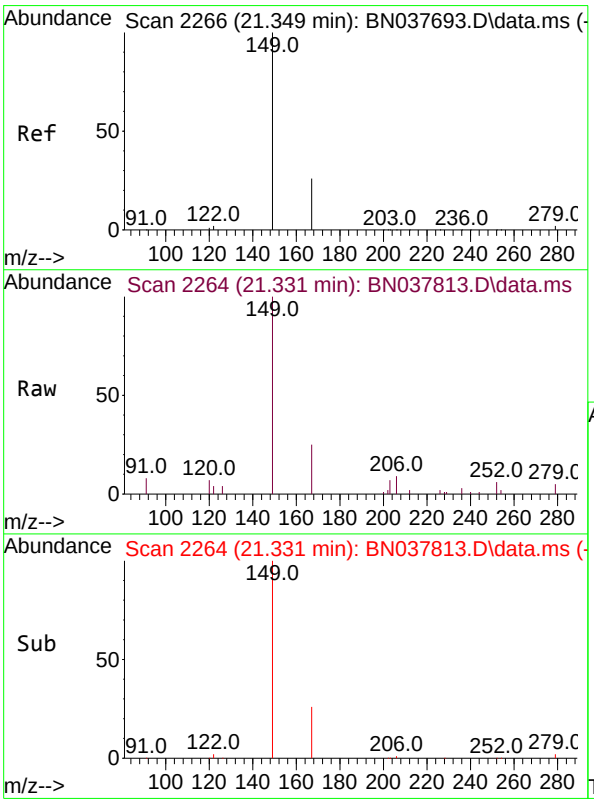

#33
Chrysene
Concen: 0.387 ng
RT: 21.447 min Scan# 2
Delta R.T. -0.009 min
Lab File: BN037813.D
Acq: 19 Sep 2025 14:19

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4

Tgt Ion:228 Resp: 12256

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 228 | 100 | | |
| 226 | 30.3 | 23.5 | 35.3 |
| 229 | 19.9 | 15.9 | 23.9 |

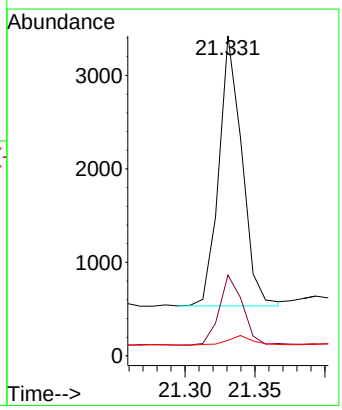


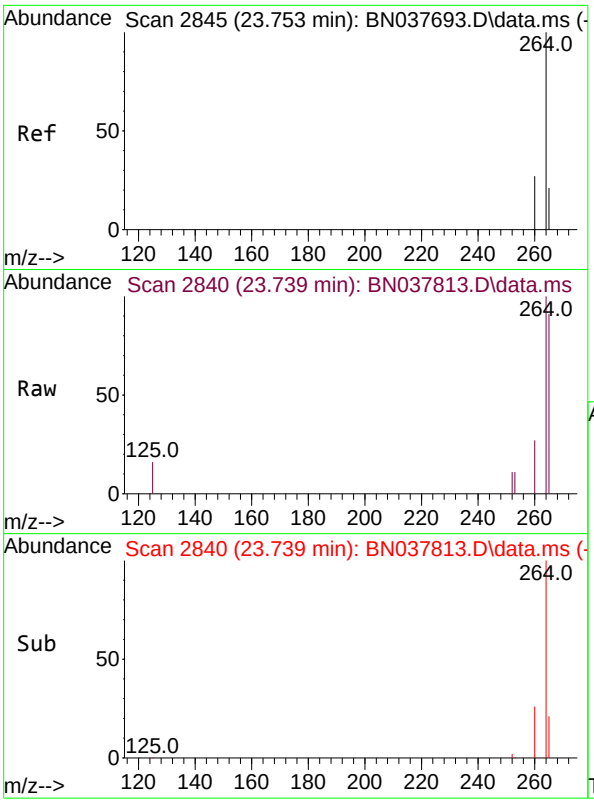




#34
Bis(2-ethylhexyl)phthalate
Concen: 0.379 ng
RT: 21.331 min Scan# 2264
Delta R.T. -0.018 min
Lab File: BN037813.D
Acq: 19 Sep 2025 14:19

Tgt Ion:149 Resp: 3318

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 149 | 100 | | |
| 167 | 26.8 | 20.8 | 31.2 |
| 279 | 4.2 | 3.3 | 4.9 |



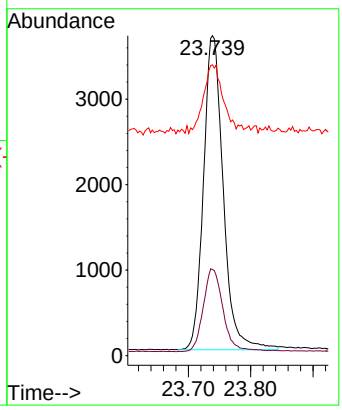


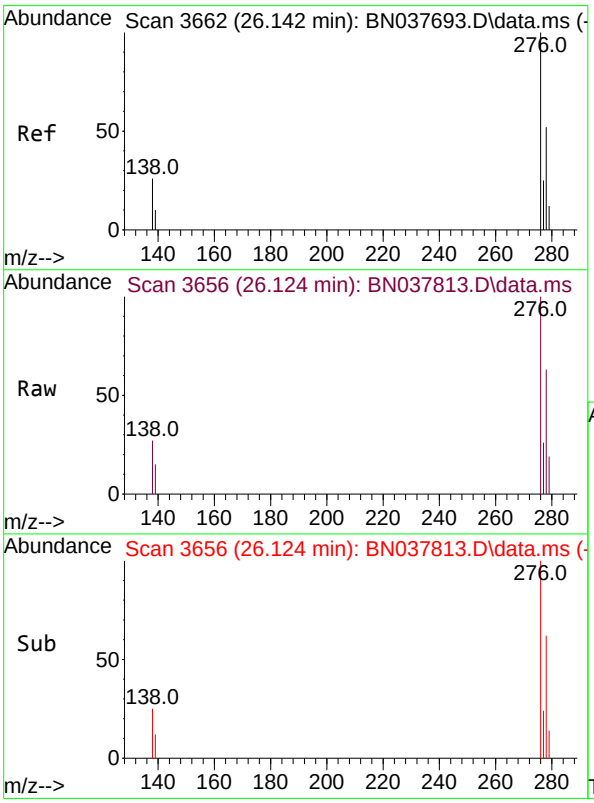

#35
Perylene-d12
Concen: 0.400 ng
RT: 23.739 min Scan# 28
Delta R.T. -0.015 min
Lab File: BN037813.D
Acq: 19 Sep 2025 14:19

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4

Tgt Ion:264 Resp: 8084

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 264 | 100 | | |
| 260 | 26.9 | 21.8 | 32.8 |
| 265 | 90.9 | 39.4 | 59.2# |

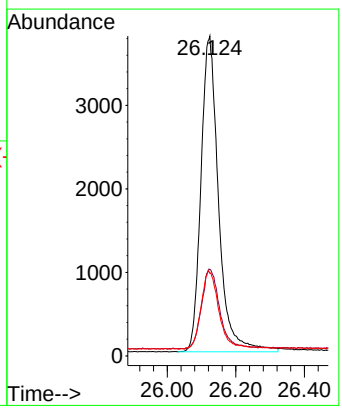


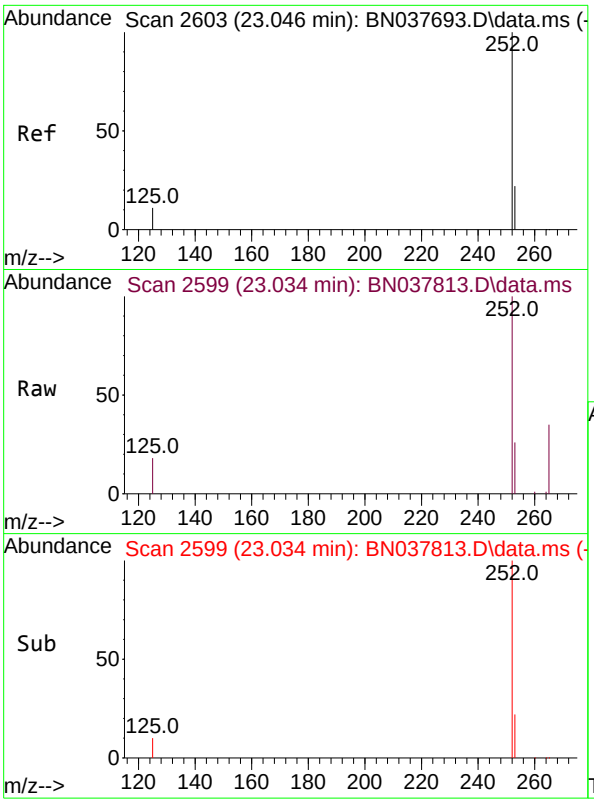




#36
Indeno(1,2,3-cd)pyrene
Concen: 0.398 ng
RT: 26.124 min Scan# 3656
Delta R.T. -0.018 min
Lab File: BN037813.D
Acq: 19 Sep 2025 14:19

Tgt Ion:276 Resp: 13502

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 276 | 100 | | |
| 138 | 26.0 | 21.9 | 32.9 |
| 277 | 24.9 | 20.1 | 30.1 |



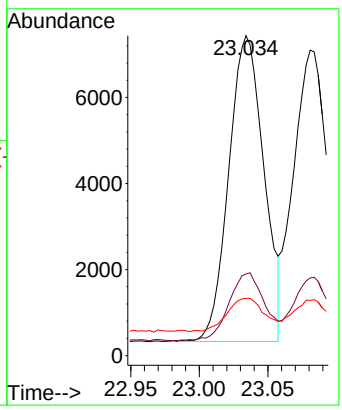


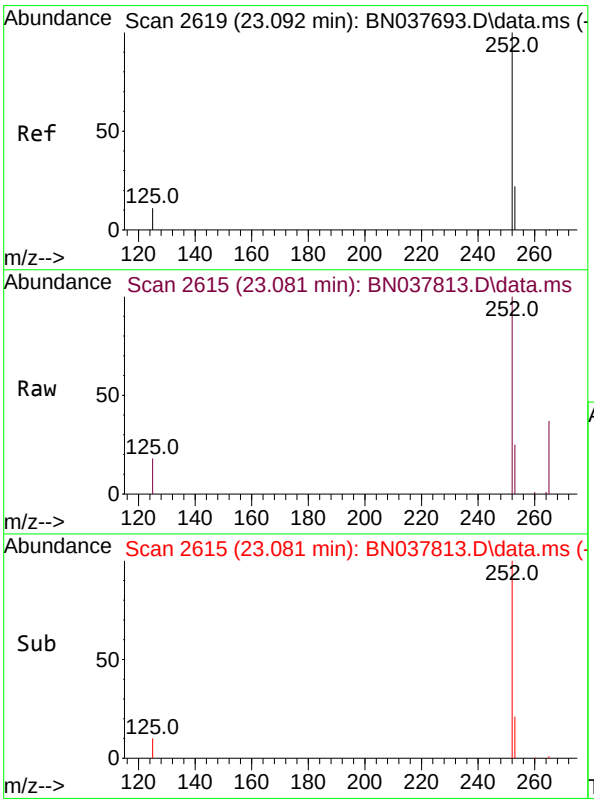

#37
Benzo(b)fluoranthene
Concen: 0.397 ng
RT: 23.034 min Scan# 2
Delta R.T. -0.012 min
Lab File: BN037813.D
Acq: 19 Sep 2025 14:19

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4

Tgt Ion:252 Resp: 12627

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 25.5 | 19.4 | 29.2 |
| 125 | 17.9 | 11.2 | 16.8# |

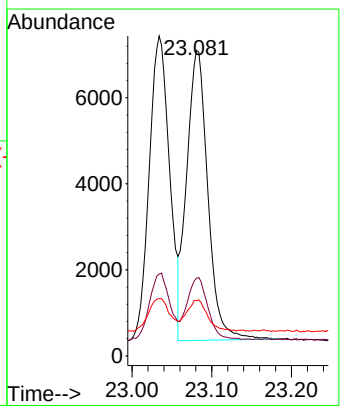


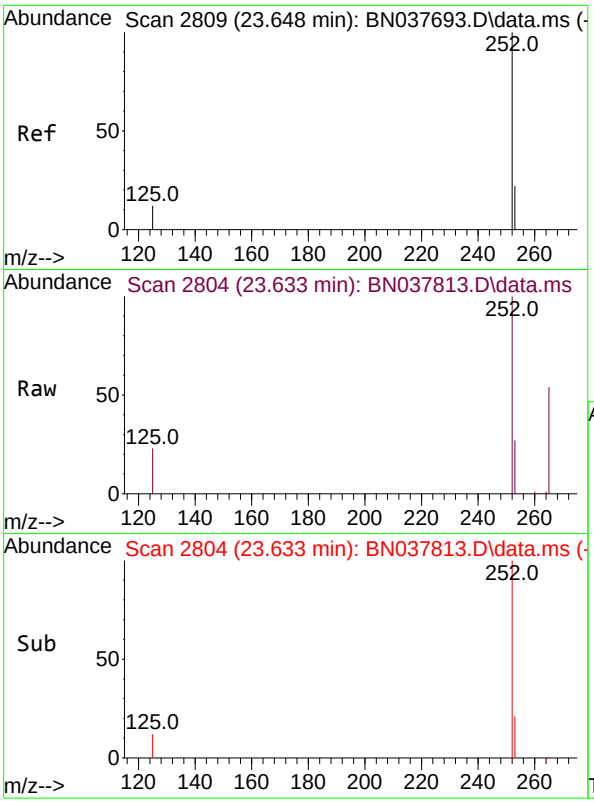




#38
Benzo(k)fluoranthene
Concen: 0.384 ng
RT: 23.081 min Scan# 2615
Delta R.T. -0.012 min
Lab File: BN037813.D
Acq: 19 Sep 2025 14:19

Tgt Ion:252 Resp: 12470

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 25.4 | 19.4 | 29.0 |
| 125 | 18.1 | 11.6 | 17.4# |



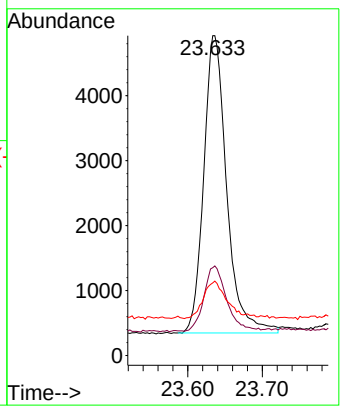


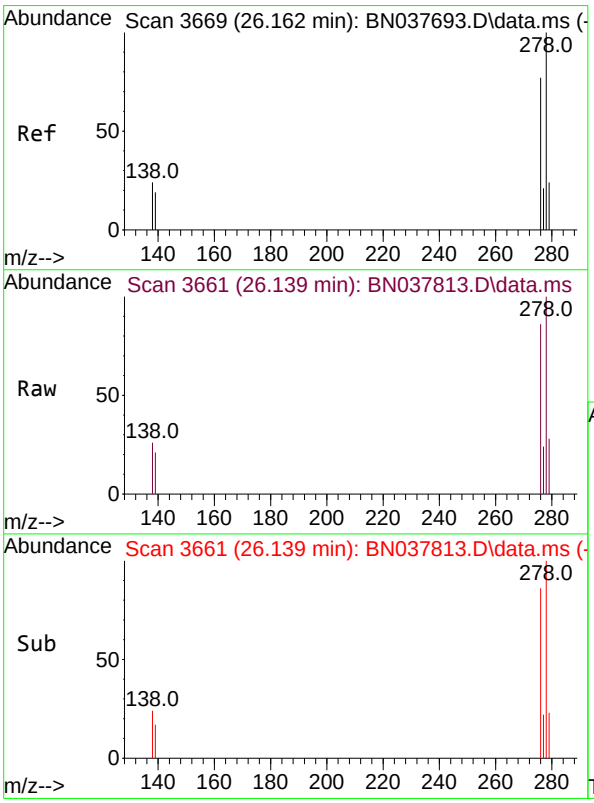

#39
Benzo(a)pyrene
Concen: 0.384 ng
RT: 23.633 min Scan# 28
Delta R.T. -0.015 min
Lab File: BN037813.D
Acq: 19 Sep 2025 14:19

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4

Tgt Ion:252 Resp: 9793

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 27.5 | 20.8 | 31.2 |
| 125 | 22.7 | 13.9 | 20.9# |

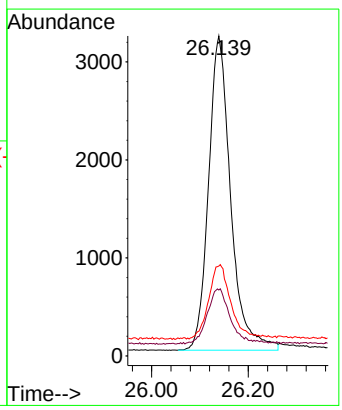


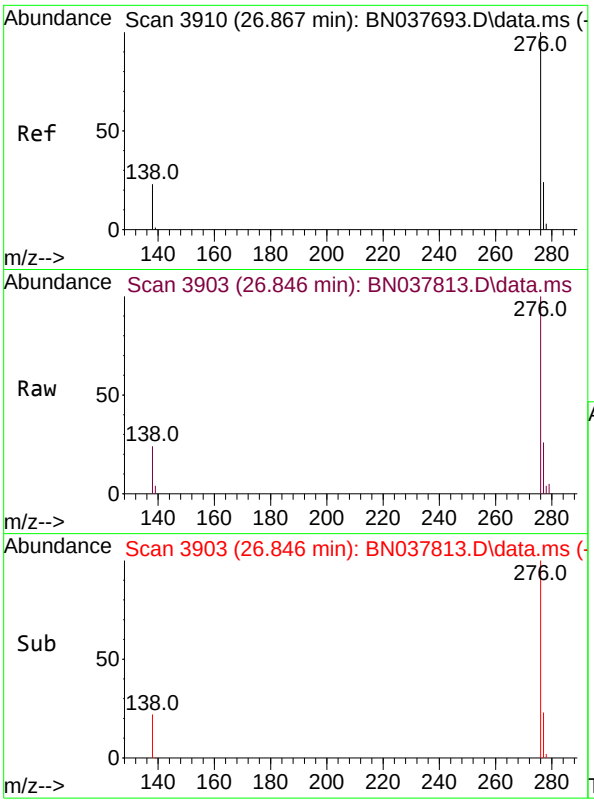




#40
Dibenzo(a,h)anthracene
Concen: 0.376 ng
RT: 26.139 min Scan# 3661
Delta R.T. -0.023 min
Lab File: BN037813.D
Acq: 19 Sep 2025 14:19

Tgt Ion:278 Resp: 10208

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 278 | 100 | | |
| 139 | 20.6 | 17.8 | 26.6 |
| 279 | 28.1 | 22.0 | 33.0 |



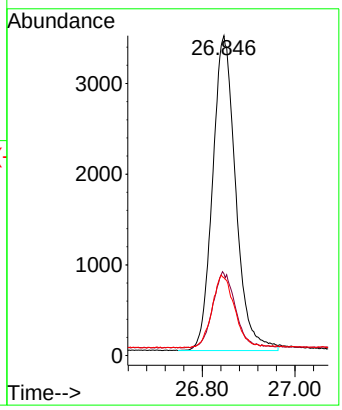



#41
Benzo(g,h,i)perylene
Concen: 0.395 ng
RT: 26.846 min Scan# 3
Delta R.T. -0.020 min
Lab File: BN037813.D
Acq: 19 Sep 2025 14:19

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4

Tgt Ion:276 Resp: 12010

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 276 | 100 | | |
| 277 | 25.6 | 20.6 | 31.0 |
| 138 | 24.3 | 20.2 | 30.2 |



Sample Results: **BN037813.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN091925\
Data File : BN037813.D
Acq On : 19 Sep 2025 14:19
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 2 Sample Multiplier: 1

**Instrument :**
BNA_N
**LabSampleId :**
SSTDCCC0.4

Quant Time: Sep 19 15:09:21 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN091125.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Sep 11 14:20:01 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 | 96 | 0.00 |
| 2 | | 1,4-Dioxane | 0.417 | 0.410 | 1.7 | 94 | 0.00 |
| 3 | | n-Nitrosodimethylamine | 0.544 | 0.482 | 11.4 | 82 | 0.00 |
| 4 | S | 2-Fluorophenol | 0.918 | 0.947 | -3.2 | 102 | 0.00 |
| 5 | S | Phenol-d6 | 1.191 | 1.079 | 9.4 | 90 | 0.00 |
| 6 | | bis(2-Chloroethyl)ether | 1.064 | 0.997 | 6.3 | 90 | 0.00 |
| 7 | I | Naphthalene-d8 | 1.000 | 1.000 | 0.0 | 94 | -0.01 |
| 8 | S | Nitrobenzene-d5 | 0.293 | 0.284 | 3.1 | 94 | -0.01 |
| 9 | | Naphthalene | 1.093 | 1.055 | 3.5 | 92 | -0.01 |
| 10 | | Hexachlorobutadiene | 0.198 | 0.193 | 2.5 | 92 | -0.02 |
| 11 | SURR | 2-Methylnaphthalene-d10 | 0.530 | 0.473 | 10.8 | 89 | -0.02 |
| 12 | | 2-Methylnaphthalene | 0.676 | 0.625 | 7.5 | 89 | -0.02 |
| 13 | I | Acenaphthene-d10 | 1.000 | 1.000 | 0.0 | 90 | -0.01 |
| 14 | S | 2,4,6-Tribromophenol | 0.104 | 0.121 | -16.3 | 108 | -0.01 |
| 15 | S | 2-Fluorobiphenyl | 1.673 | 1.589 | 5.0 | 87 | -0.01 |
| 16 | | Acenaphthylene | 1.834 | 1.643 | 10.4 | 83 | -0.01 |
| 17 | | Acenaphthene | 1.240 | 1.149 | 7.3 | 85 | -0.01 |
| 18 | | Fluorene | 1.502 | 1.334 | 11.2 | 83 | 0.00 |
| 19 | I | Phenanthrene-d10 | 1.000 | 1.000 | 0.0 | 86 | 0.00 |
| 20 | | 4,6-Dinitro-2-methylphenol | 0.037 | 0.032 | 13.5 | 83 | -0.01 |
| 21 | | 4-Bromophenyl-phenylether | 0.261 | 0.238 | 8.8 | 81 | -0.01 |
| 22 | | Hexachlorobenzene | 0.300 | 0.312 | -4.0 | 91 | -0.01 |
| 23 | | Atrazine | 0.166 | 0.151 | 9.0 | 86 | -0.01 |
| 24 | | Pentachlorophenol | 0.087 | 0.101 | -16.1 | 115 | -0.01 |
| 25 | | Phenanthrene | 1.259 | 1.201 | 4.6 | 84 | -0.01 |
| 26 | | Anthracene | 1.116 | 1.032 | 7.5 | 83 | -0.01 |
| 27 | SURR | Fluoranthene-d10 | 1.004 | 0.897 | 10.7 | 82 | 0.00 |
| 28 | | Fluoranthene | 1.381 | 1.286 | 6.9 | 84 | 0.00 |
| 29 | I | Chrysene-d12 | 1.000 | 1.000 | 0.0 | 90 | 0.00 |
| 30 | | Pyrene | 1.566 | 1.455 | 7.1 | 84 | 0.00 |
| 31 | S | Terphenyl-d14 | 0.812 | 0.730 | 10.1 | 82 | 0.00 |
| 32 | | Benzo(a)anthracene | 1.395 | 1.279 | 8.3 | 86 | 0.00 |
| 33 | | Chrysene | 1.496 | 1.448 | 3.2 | 87 | 0.00 |
| 34 | | Bis(2-ethylhexyl)phthalate | 0.414 | 0.392 | 5.3 | 94 | -0.02 |
| 35 | I | Perylene-d12 | 1.000 | 1.000 | 0.0 | 90 | -0.01 |
| 36 | | Indeno(1,2,3-cd)pyrene | 1.681 | 1.670 | 0.7 | 98 | -0.02 |
| 37 | | Benzo(b)fluoranthene | 1.575 | 1.562 | 0.8 | 91 | -0.01 |
| 38 | | Benzo(k)fluoranthene | 1.606 | 1.543 | 3.9 | 91 | -0.01 |
| 39 | C | Benzo(a)pyrene | 1.261 | 1.211 | 4.0 | 91 | -0.01 |
| 40 | | Dibenzo(a,h)anthracene | 1.342 | 1.263 | 5.9 | 94 | -0.02 |
| 41 | | Benzo(g,h,i)perylene | 1.506 | 1.486 | 1.3 | 92 | -0.02 |

(#) = Out of Range SPCC's out = 0 CCC's out = 0

**Instrument :**
BNA_N
**LabSampleId :**
SSTDCCC0.4

Sample Results: **BN037813.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN091925\
Data File : BN037813.D
Acq On : 19 Sep 2025 14:19
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 2 Sample Multiplier: 1

**Instrument :**
BNA_N
**LabSampleId :**
SSTDCCC0.4

Quant Time: Sep 19 15:09:21 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN091125.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Sep 11 14:20:01 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 | 96 | 0.00 |
| 2 | | 1,4-Dioxane | 0.400 | 0.394 | 1.5 | 94 | 0.00 |
| 3 | | n-Nitrosodimethylamine | 0.400 | 0.354 | 11.5 | 82 | 0.00 |
| 4 | S | 2-Fluorophenol | 0.400 | 0.412 | -3.0 | 102 | 0.00 |
| 5 | S | Phenol-d6 | 0.400 | 0.362 | 9.5 | 90 | 0.00 |
| 6 | | bis(2-Chloroethyl)ether | 0.400 | 0.375 | 6.3 | 90 | 0.00 |
| 7 | I | Naphthalene-d8 | 0.400 | 0.400 | 0.0 | 94 | -0.01 |
| 8 | S | Nitrobenzene-d5 | 0.400 | 0.388 | 3.0 | 94 | -0.01 |
| 9 | | Naphthalene | 0.400 | 0.386 | 3.5 | 92 | -0.01 |
| 10 | | Hexachlorobutadiene | 0.400 | 0.391 | 2.3 | 92 | -0.02 |
| 11 | SURR | 2-Methylnaphthalene-d10 | 0.400 | 0.357 | 10.8 | 89 | -0.02 |
| 12 | | 2-Methylnaphthalene | 0.400 | 0.369 | 7.8 | 89 | -0.02 |
| 13 | I | Acenaphthene-d10 | 0.400 | 0.400 | 0.0 | 90 | -0.01 |
| 14 | S | 2,4,6-Tribromophenol | 0.400 | 0.463 | -15.8 | 108 | -0.01 |
| 15 | S | 2-Fluorobiphenyl | 0.400 | 0.380 | 5.0 | 87 | -0.01 |
| 16 | | Acenaphthylene | 0.400 | 0.358 | 10.5 | 83 | -0.01 |
| 17 | | Acenaphthene | 0.400 | 0.370 | 7.5 | 85 | -0.01 |
| 18 | | Fluorene | 0.400 | 0.355 | 11.3 | 83 | 0.00 |
| 19 | I | Phenanthrene-d10 | 0.400 | 0.400 | 0.0 | 86 | 0.00 |
| 20 | | 4,6-Dinitro-2-methylphenol | 0.400 | 0.346 | 13.5 | 83 | -0.01 |
| 21 | | 4-Bromophenyl-phenylether | 0.400 | 0.365 | 8.8 | 81 | -0.01 |
| 22 | | Hexachlorobenzene | 0.400 | 0.416 | -4.0 | 91 | -0.01 |
| 23 | | Atrazine | 0.400 | 0.365 | 8.8 | 86 | -0.01 |
| 24 | | Pentachlorophenol | 0.400 | 0.462 | -15.5 | 115 | -0.01 |
| 25 | | Phenanthrene | 0.400 | 0.381 | 4.8 | 84 | -0.01 |
| 26 | | Anthracene | 0.400 | 0.370 | 7.5 | 83 | -0.01 |
| 27 | SURR | Fluoranthene-d10 | 0.400 | 0.357 | 10.8 | 82 | 0.00 |
| 28 | | Fluoranthene | 0.400 | 0.372 | 7.0 | 84 | 0.00 |
| 29 | I | Chrysene-d12 | 0.400 | 0.400 | 0.0 | 90 | 0.00 |
| 30 | | Pyrene | 0.400 | 0.372 | 7.0 | 84 | 0.00 |
| 31 | S | Terphenyl-d14 | 0.400 | 0.360 | 10.0 | 82 | 0.00 |
| 32 | | Benzo(a)anthracene | 0.400 | 0.367 | 8.3 | 86 | 0.00 |
| 33 | | Chrysene | 0.400 | 0.387 | 3.3 | 87 | 0.00 |
| 34 | | Bis(2-ethylhexyl)phthalate | 0.400 | 0.379 | 5.3 | 94 | -0.02 |
| 35 | I | Perylene-d12 | 0.400 | 0.400 | 0.0 | 90 | -0.01 |
| 36 | | Indeno(1,2,3-cd)pyrene | 0.400 | 0.398 | 0.5 | 98 | -0.02 |
| 37 | | Benzo(b)fluoranthene | 0.400 | 0.397 | 0.8 | 91 | -0.01 |
| 38 | | Benzo(k)fluoranthene | 0.400 | 0.384 | 4.0 | 91 | -0.01 |
| 39 | C | Benzo(a)pyrene | 0.400 | 0.384 | 4.0 | 91 | -0.01 |
| 40 | | Dibenzo(a,h)anthracene | 0.400 | 0.376 | 6.0 | 94 | -0.02 |
| 41 | | Benzo(g,h,i)perylene | 0.400 | 0.395 | 1.3 | 92 | -0.02 |

(#) = Out of Range SPCC's out = 0 CCC's out = 0

**Instrument :**
BNA_N
**LabSampleId :**
SSTDCCC0.4

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

7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: Alliance Contract: AECO15

Lab Code: ACE SDG No.: Q3095

Instrument ID: BNA_N Calibration Date/Time: 09/20/2025 00:39

Lab File ID: BN037830.D Init. Calib. Date(s): 09/11/2025 09/11/2025

EPA Sample No.: SSTDCCC0.4EC Init. Calib. Time(s): 09:56 13:33

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

| COMPOUND | RRF | RRF0.4 | MIN RRF | %D | MAX%D |
|---|---|---|---|---|---|
| 2-Methylnaphthalene-d10 | 0.530 | 0.471 | | -11.1 | 50.0 |
| Fluoranthene-d10 | 1.004 | 0.971 | | -3.3 | 50.0 |
| 2-Fluorophenol | 0.918 | 0.830 | | -9.6 | 50.0 |
| Phenol-d6 | 1.191 | 1.088 | | -8.6 | 50.0 |
| Nitrobenzene-d5 | 0.293 | 0.282 | | -3.8 | 50.0 |
| 2-Fluorobiphenyl | 1.673 | 1.621 | | -3.1 | 50.0 |
| 2,4,6-Tribromophenol | 0.104 | 0.105 | | 1.0 | 50.0 |
| Terphenyl-d14 | 0.812 | 0.741 | | -8.7 | 50.0 |
| 1,4-Dioxane | 0.417 | 0.395 | | -5.3 | 50.0 |

All other compounds must meet a minimum RRF of 0.010.

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN091925\
Data File : BN037830.D
Acq On : 20 Sep 2025 00:39
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 19 Sample Multiplier: 1

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4EC

Quant Time: Sep 20 01:04:32 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN091125.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Sep 11 14:20:01 2025
Response via : Initial Calibration

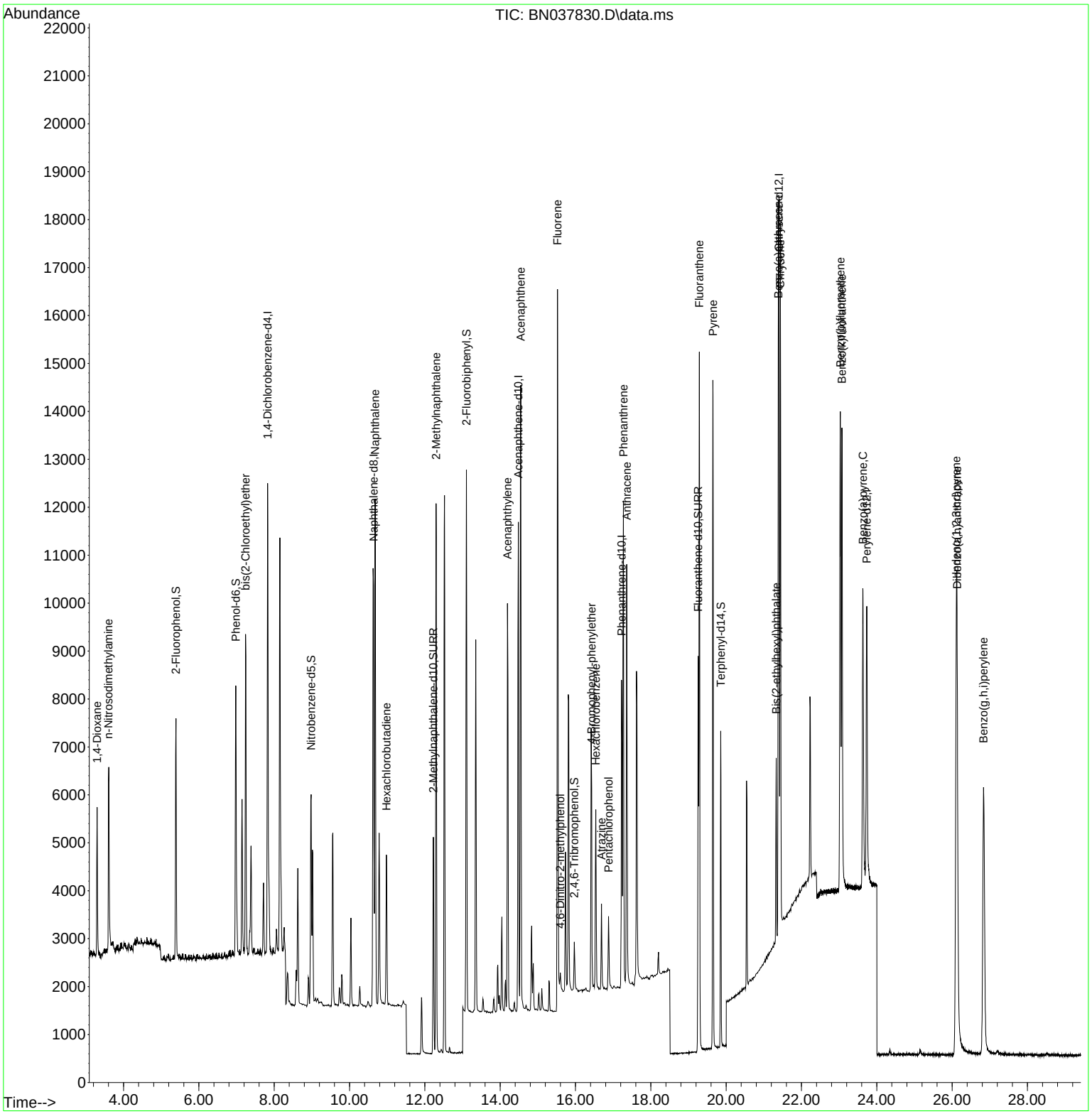
| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| Internal Standards | | | | | | | |
| 1) 1,4-Dichlorobenzene-d4 | 7.826 | 152 | 4763 | 0.400 | ng | | -0.01 |
| 7) Naphthalene-d8 | 10.637 | 136 | 12882 | 0.400 | ng | | #-0.01 |
| 13) Acenaphthene-d10 | 14.484 | 164 | 5757 | 0.400 | ng | | -0.01 |
| 19) Phenanthrene-d10 | 17.223 | 188 | 9339 | 0.400 | ng | | -0.01 |
| 29) Chrysene-d12 | 21.402 | 240 | 8425 | 0.400 | ng | | #-0.02 |
| 35) Perylene-d12 | 23.733 | 264 | 8348 | 0.400 | ng | | #-0.02 |
| System Monitoring Compounds | | | | | | | |
| 4) 2-Fluorophenol | 5.392 | 112 | 3952 | 0.361 | ng | | 0.00 |
| 5) Phenol-d6 | 6.981 | 99 | 5181 | 0.365 | ng | | 0.00 |
| 8) Nitrobenzene-d5 | 8.982 | 82 | 3636 | 0.386 | ng | | -0.01 |
| 11) 2-Methylnaphthalene-d10 | 12.228 | 152 | 6061 | 0.355 | ng | | -0.02 |
| 14) 2,4,6-Tribromophenol | 15.969 | 330 | 607 | 0.404 | ng | | -0.01 |
| 15) 2-Fluorobiphenyl | 13.105 | 172 | 9332 | 0.388 | ng | | -0.01 |
| 27) Fluoranthene-d10 | 19.257 | 212 | 9064 | 0.387 | ng | | -0.01 |
| 31) Terphenyl-d14 | 19.857 | 244 | 6240 | 0.365 | ng | | -0.01 |
| Target Compounds | | | | | | | Qvalue |
| 2) 1,4-Dioxane | 3.297 | 88 | 1880 | 0.379 | ng | | 98 |
| 3) n-Nitrosodimethylamine | 3.601 | 42 | 2585 | 0.399 | ng | | 97 |
| 6) bis(2-Chloroethyl)ether | 7.241 | 93 | 4760 | 0.376 | ng | | 98 |
| 9) Naphthalene | 10.680 | 128 | 13409 | 0.381 | ng | | 100 |
| 10) Hexachlorobutadiene | 10.979 | 225 | 2479 | 0.389 | ng | # | 100 |
| 12) 2-Methylnaphthalene | 12.299 | 142 | 8063 | 0.370 | ng | | 99 |
| 16) Acenaphthylene | 14.195 | 152 | 9766 | 0.370 | ng | | 99 |
| 17) Acenaphthene | 14.548 | 154 | 6828 | 0.382 | ng | | 98 |
| 18) Fluorene | 15.523 | 166 | 7620 | 0.352 | ng | | 99 |
| 20) 4,6-Dinitro-2-methylph... | 15.597 | 198 | 257 | 0.297 | ng | # | 79 |
| 21) 4-Bromophenyl-phenylether | 16.429 | 248 | 2332 | 0.383 | ng | | 98 |
| 22) Hexachlorobenzene | 16.540 | 284 | 2969 | 0.424 | ng | | 99 |
| 23) Atrazine | 16.689 | 200 | 1399 | 0.361 | ng | | 96 |
| 24) Pentachlorophenol | 16.876 | 266 | 830 | 0.408 | ng | | 95 |
| 25) Phenanthrene | 17.273 | 178 | 11247 | 0.383 | ng | | 99 |
| 26) Anthracene | 17.360 | 178 | 9601 | 0.369 | ng | | 99 |
| 28) Fluoranthene | 19.290 | 202 | 12968 | 0.402 | ng | | 100 |
| 30) Pyrene | 19.647 | 202 | 12812 | 0.388 | ng | | 100 |
| 32) Benzo(a)anthracene | 21.384 | 228 | 10867 | 0.370 | ng | | 98 |
| 33) Chrysene | 21.438 | 228 | 12584 | 0.399 | ng | | 98 |
| 34) Bis(2-ethylhexyl)phtha... | 21.331 | 149 | 3605 | 0.414 | ng | | 99 |
| 36) Indeno(1,2,3-cd)pyrene | 26.110 | 276 | 14316 | 0.408 | ng | | 99 |
| 37) Benzo(b)fluoranthene | 23.031 | 252 | 13207 | 0.402 | ng | # | 94 |
| 38) Benzo(k)fluoranthene | 23.075 | 252 | 13139 | 0.392 | ng | # | 95 |
| 39) Benzo(a)pyrene | 23.630 | 252 | 10193 | 0.387 | ng | # | 92 |
| 40) Dibenzo(a,h)anthracene | 26.133 | 278 | 11121 | 0.397 | ng | | 99 |
| 41) Benzo(g,h,i)perylene | 26.835 | 276 | 12456 | 0.396 | ng | | 99 |

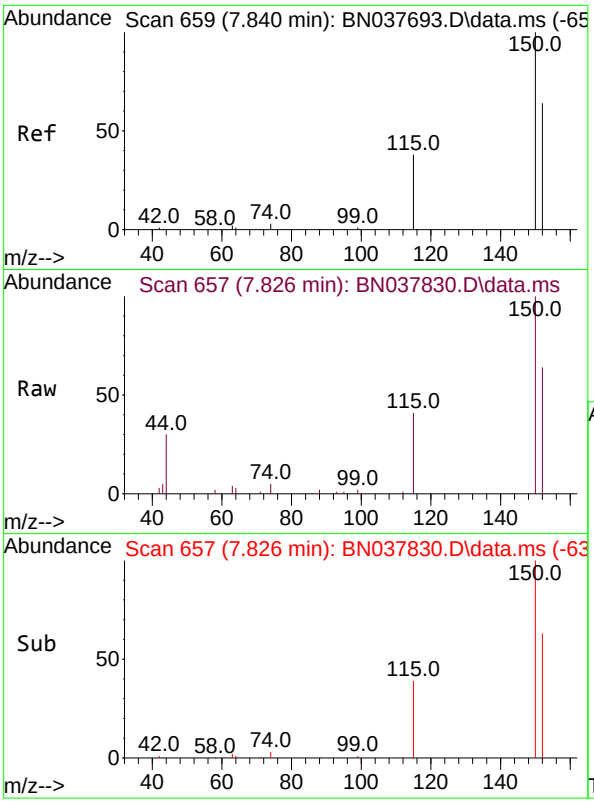
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN091925\
Data File : BN037830.D
Acq On : 20 Sep 2025 00:39
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 19 Sample Multiplier: 1

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4EC

Quant Time: Sep 20 01:04:32 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN091125.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Sep 11 14:20:01 2025
Response via : Initial Calibration



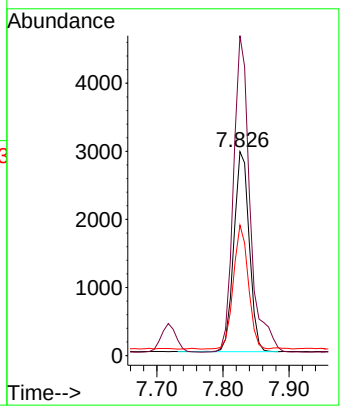


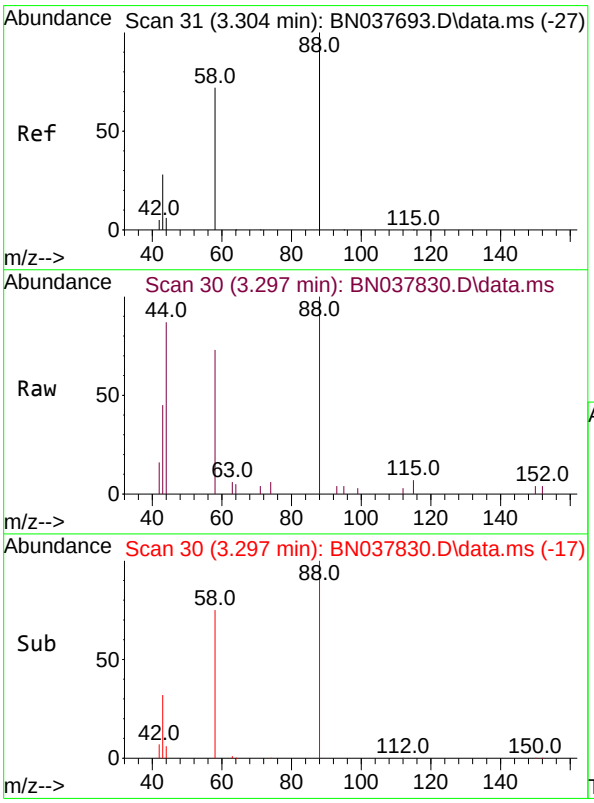

#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.826 min Scan# 6
Delta R.T. -0.014 min
Lab File: BN037830.D
Acq: 20 Sep 2025 00:39

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4EC

Tgt Ion:152 Resp: 4763

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 150 | 156.9 | 124.5 | 186.7 |
| 115 | 64.0 | 49.2 | 73.8 |

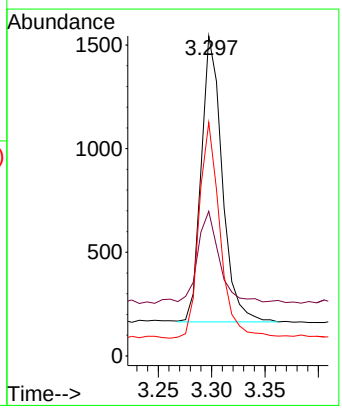


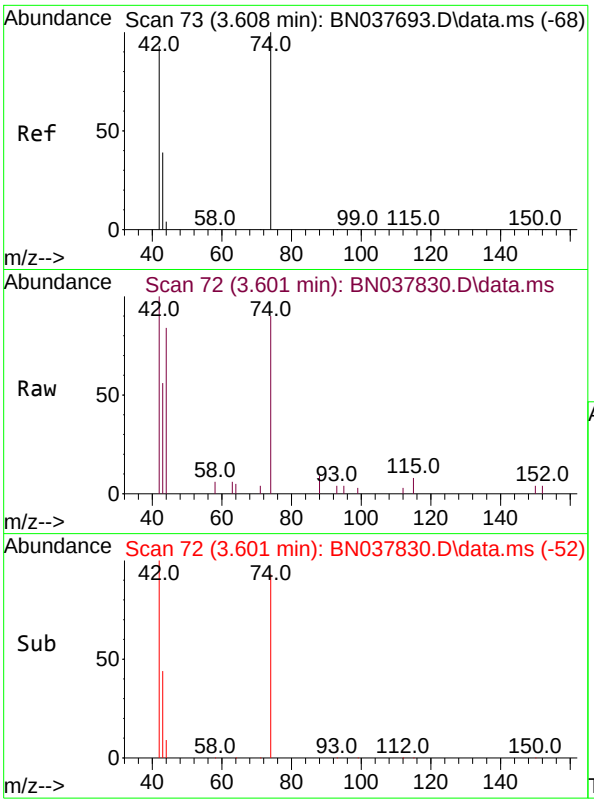




#2
1,4-Dioxane
Concen: 0.379 ng
RT: 3.297 min Scan# 30
Delta R.T. -0.007 min
Lab File: BN037830.D
Acq: 20 Sep 2025 00:39

Tgt Ion: 88 Resp: 1880

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 88 | 100 | | |
| 43 | 34.9 | 26.8 | 40.2 |
| 58 | 75.7 | 61.9 | 92.9 |



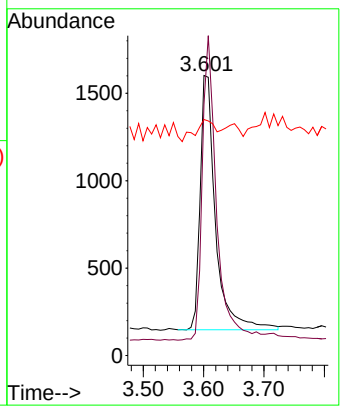


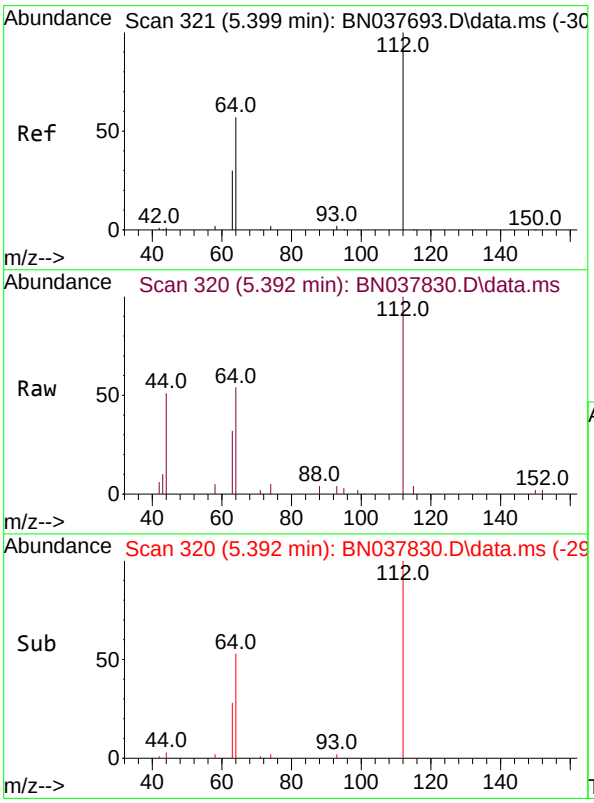

#3
n-Nitrosodimethylamine
Concen: 0.399 ng
RT: 3.601 min Scan# 7
Delta R.T. -0.007 min
Lab File: BN037830.D
Acq: 20 Sep 2025 00:39

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4EC

Tgt Ion: 42 Resp: 2585

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 42 | 100 | | |
| 74 | 110.6 | 86.0 | 129.0 |
| 44 | 10.4 | 8.4 | 12.6 |

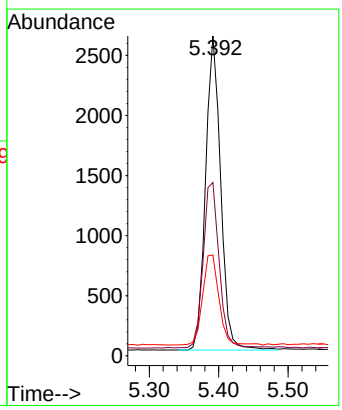


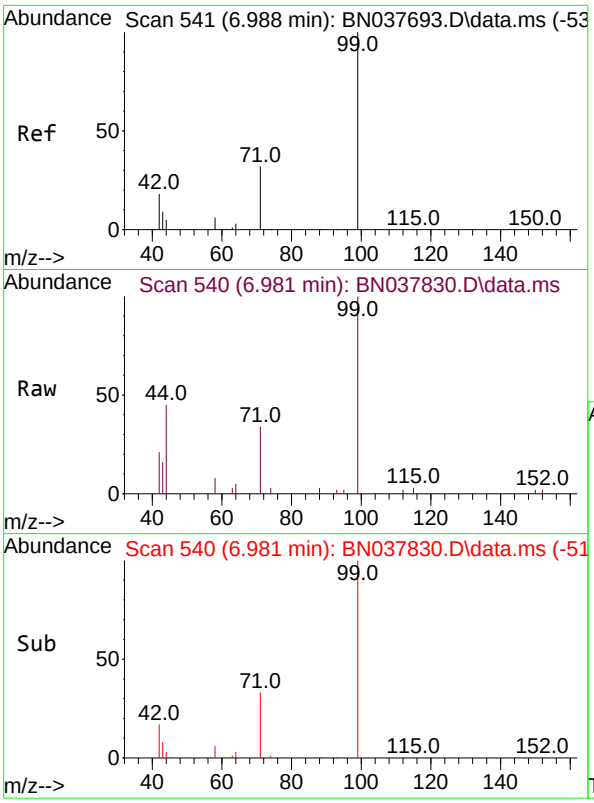




#4
2-Fluorophenol
Concen: 0.361 ng
RT: 5.392 min Scan# 320
Delta R.T. -0.007 min
Lab File: BN037830.D
Acq: 20 Sep 2025 00:39

Tgt Ion:112 Resp: 3952

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 112 | 100 | | |
| 64 | 55.7 | 44.9 | 67.3 |
| 63 | 30.9 | 24.7 | 37.1 |



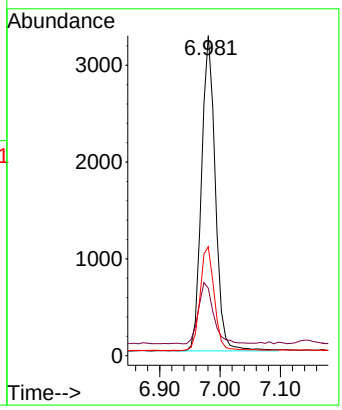


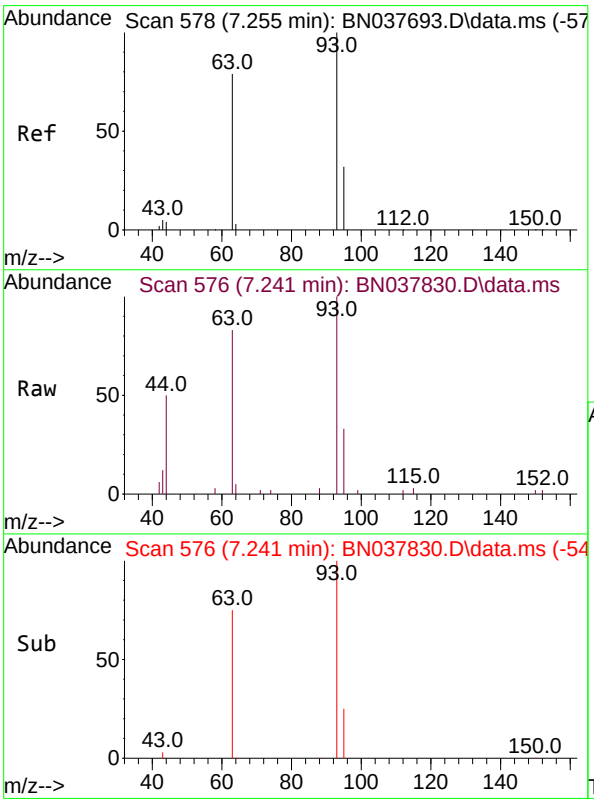

#5
Phenol-d6
Concen: 0.365 ng
RT: 6.981 min Scan# 54
Delta R.T. -0.007 min
Lab File: BN037830.D
Acq: 20 Sep 2025 00:39

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4EC

Tgt Ion: 99 Resp: 5181

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 99 | 100 | | |
| 42 | 21.1 | 16.6 | 24.8 |
| 71 | 34.1 | 26.7 | 40.1 |

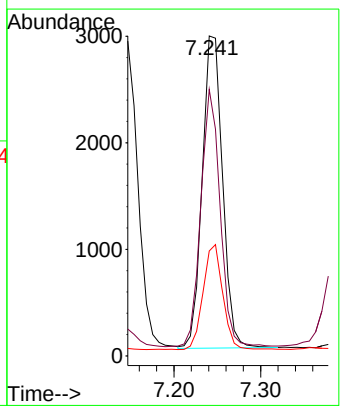


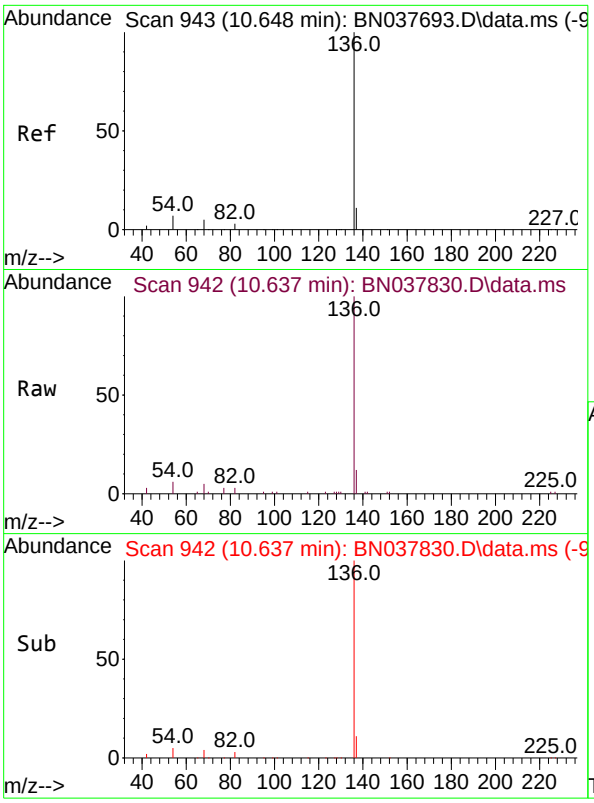




#6
bis(2-Chloroethyl)ether
Concen: 0.376 ng
RT: 7.241 min Scan# 576
Delta R.T. -0.014 min
Lab File: BN037830.D
Acq: 20 Sep 2025 00:39

Tgt Ion: 93 Resp: 4760

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 93 | 100 | | |
| 63 | 78.1 | 60.6 | 90.8 |
| 95 | 32.8 | 26.0 | 39.0 |



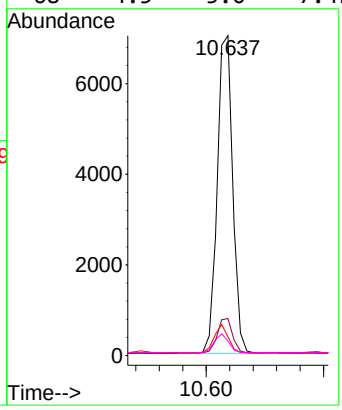


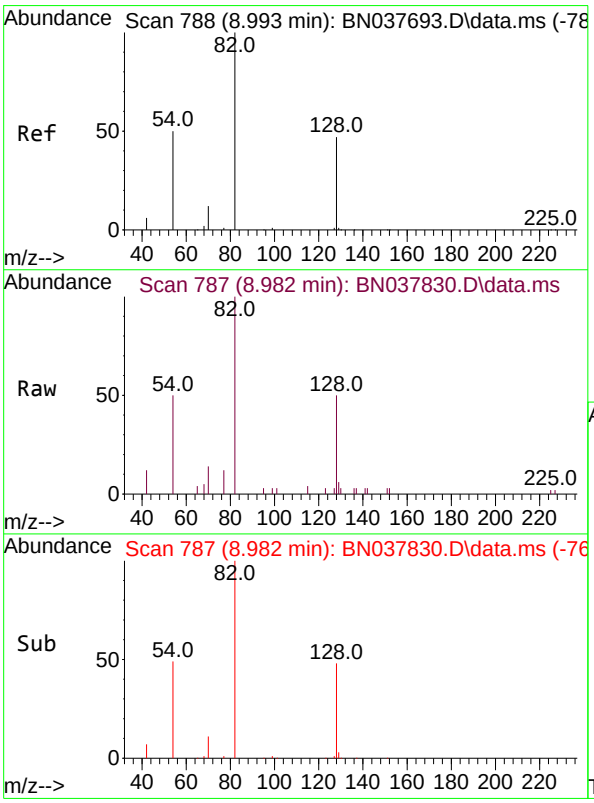

#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.637 min Scan# 94
Delta R.T. -0.011 min
Lab File: BN037830.D
Acq: 20 Sep 2025 00:39

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4EC

Tgt Ion:136 Resp: 12882

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 136 | 100 | | |
| 137 | 11.6 | 9.1 | 13.7 |
| 54 | 5.9 | 6.3 | 9.5# |
| 68 | 4.5 | 5.0 | 7.4# |

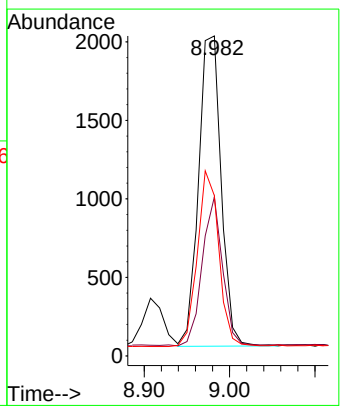


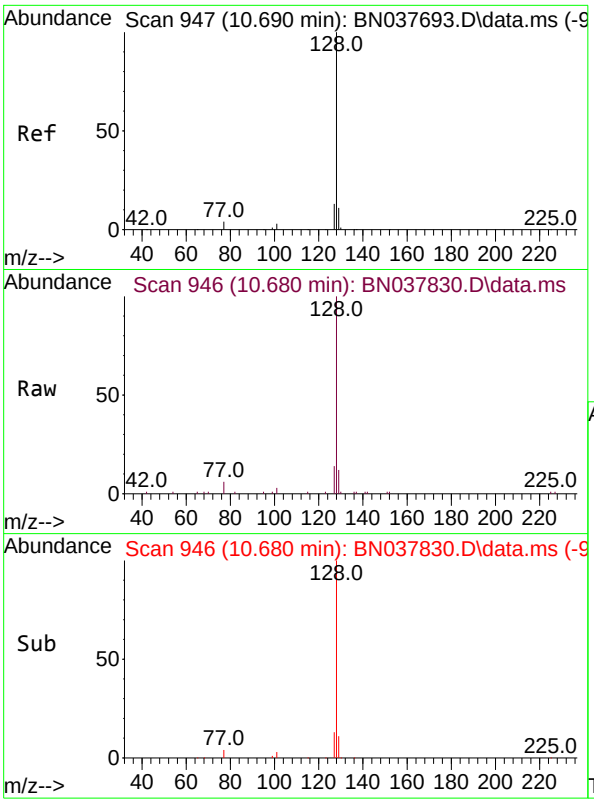




#8
Nitrobenzene-d5
Concen: 0.386 ng
RT: 8.982 min Scan# 787
Delta R.T. -0.011 min
Lab File: BN037830.D
Acq: 20 Sep 2025 00:39

Tgt Ion: 82 Resp: 3636

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 82 | 100 | | |
| 128 | 49.7 | 38.3 | 57.5 |
| 54 | 50.1 | 41.4 | 62.2 |



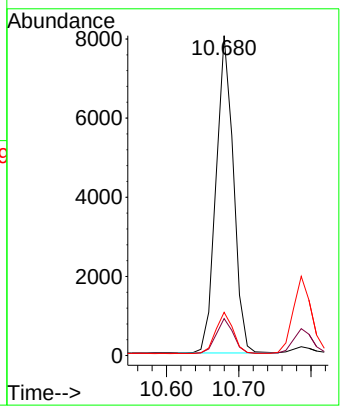


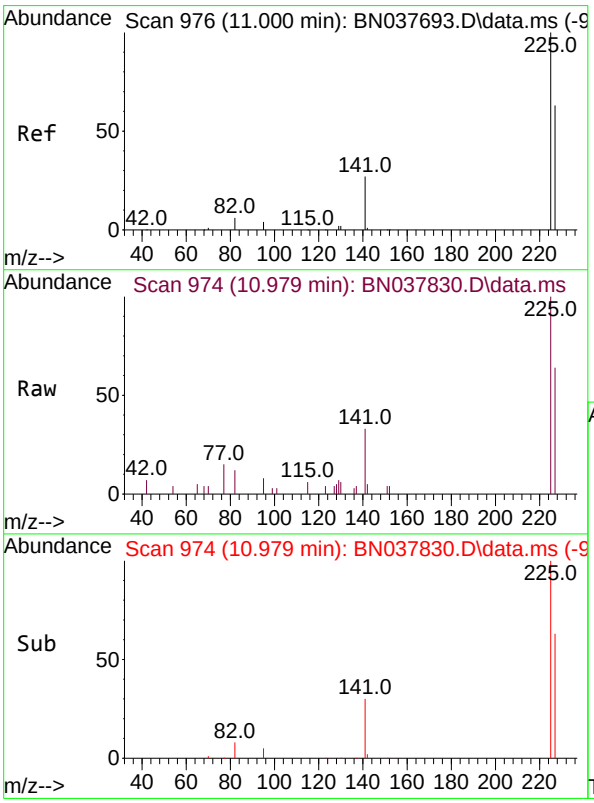

#9
Naphthalene
Concen: 0.381 ng
RT: 10.680 min Scan# 94
Delta R.T. -0.011 min
Lab File: BN037830.D
Acq: 20 Sep 2025 00:39

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4EC

Tgt Ion:128 Resp: 13409

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 128 | 100 | | |
| 129 | 11.6 | 9.1 | 13.7 |
| 127 | 13.5 | 10.9 | 16.3 |

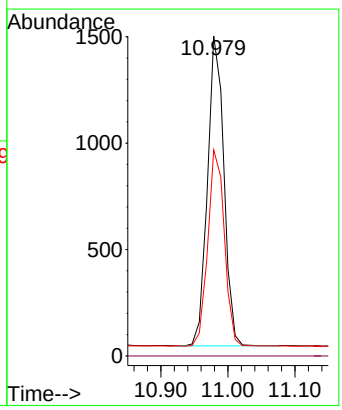


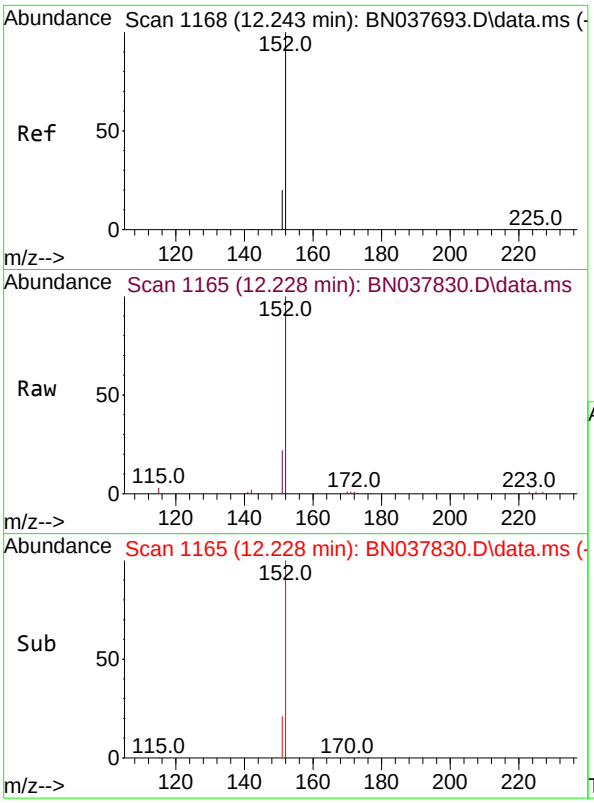




#10
Hexachlorobutadiene
Concen: 0.389 ng
RT: 10.979 min Scan# 974
Delta R.T. -0.021 min
Lab File: BN037830.D
Acq: 20 Sep 2025 00:39

Tgt Ion:225 Resp: 2479

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 225 | 100 | | |
| 223 | 0.0 | 0.0 | 0.0 |
| 227 | 63.8 | 50.9 | 76.3 |



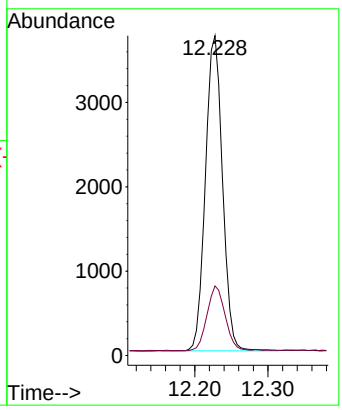


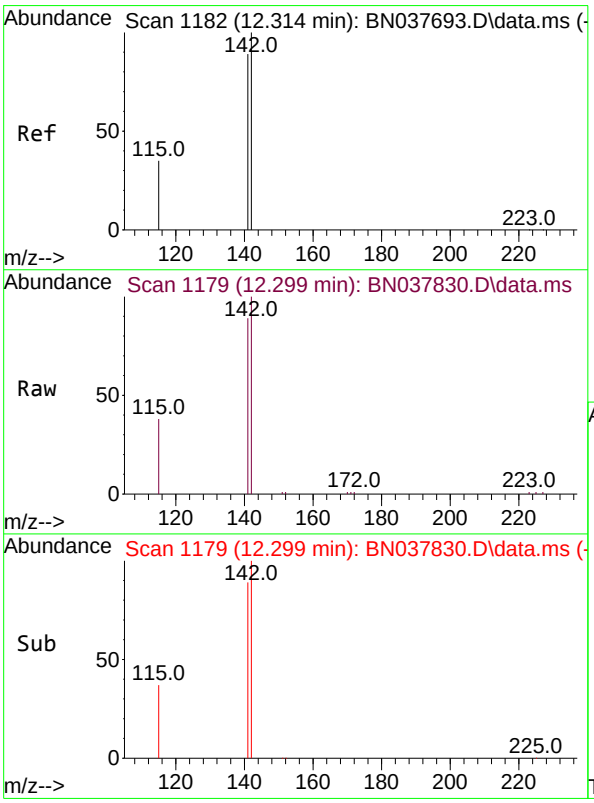

#11
2-Methylnaphthalene-d10
Concen: 0.355 ng
RT: 12.228 min Scan# 11
Delta R.T. -0.015 min
Lab File: BN037830.D
Acq: 20 Sep 2025 00:39

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4EC

Tgt Ion:152 Resp: 6061

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

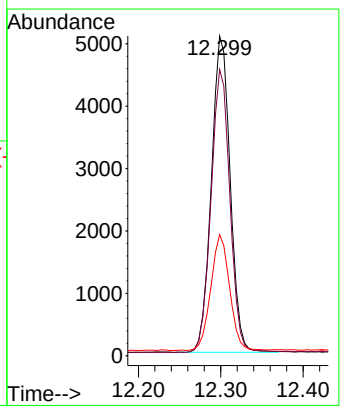


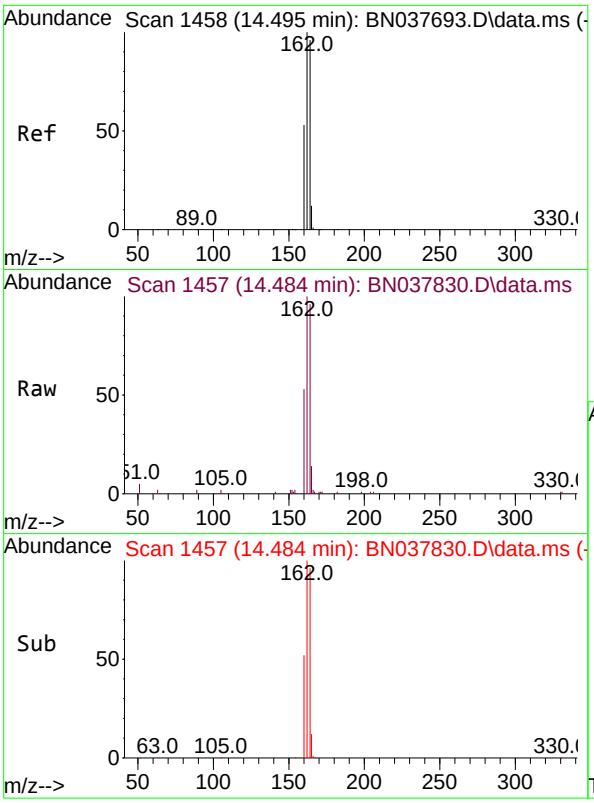




#12
2-Methylnaphthalene
Concen: 0.370 ng
RT: 12.299 min Scan# 1179
Delta R.T. -0.015 min
Lab File: BN037830.D
Acq: 20 Sep 2025 00:39

Tgt Ion:142 Resp: 8063

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 142 | 100 | | |
| 141 | 89.5 | 71.6 | 107.4 |
| 115 | 37.9 | 28.6 | 43.0 |



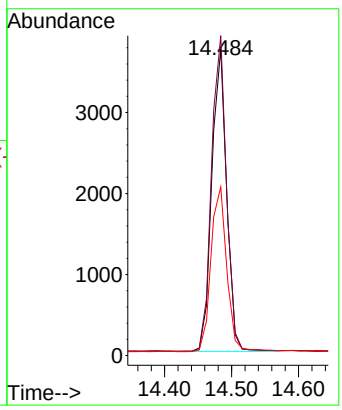


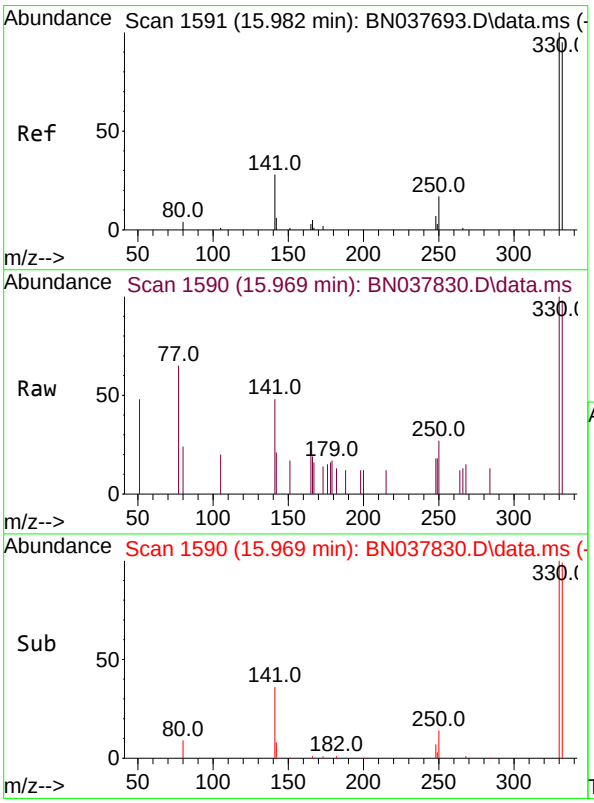

#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.484 min Scan# 14
Delta R.T. -0.011 min
Lab File: BN037830.D
Acq: 20 Sep 2025 00:39

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4EC

Tgt Ion:164 Resp: 5757

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 164 | 100 | | |
| 162 | 104.3 | 83.1 | 124.7 |
| 160 | 55.0 | 44.3 | 66.5 |

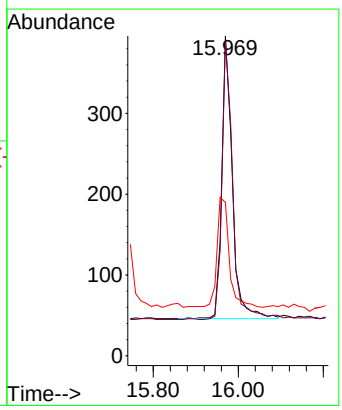


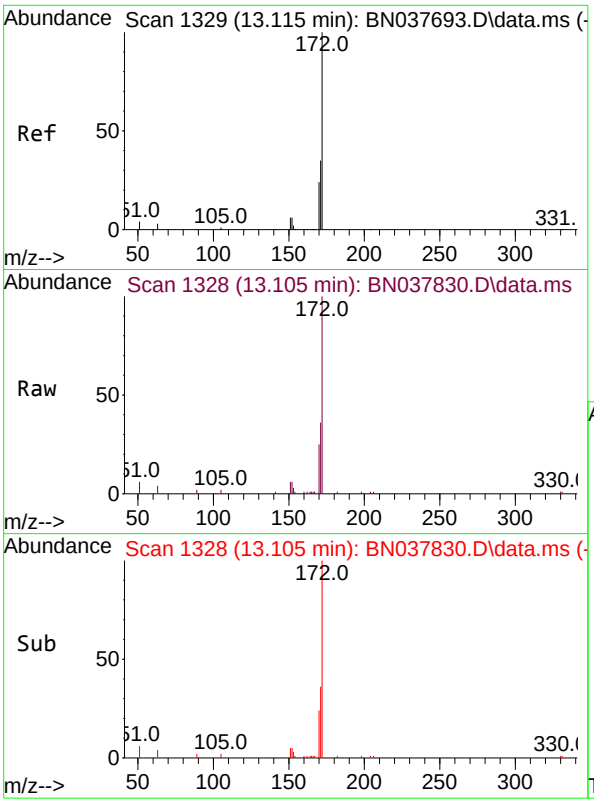




#14
2,4,6-Tribromophenol
Concen: 0.404 ng
RT: 15.969 min Scan# 1590
Delta R.T. -0.013 min
Lab File: BN037830.D
Acq: 20 Sep 2025 00:39

Tgt Ion:330 Resp: 607

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 330 | 100 | | |
| 332 | 99.8 | 75.3 | 112.9 |
| 141 | 44.3 | 35.0 | 52.4 |



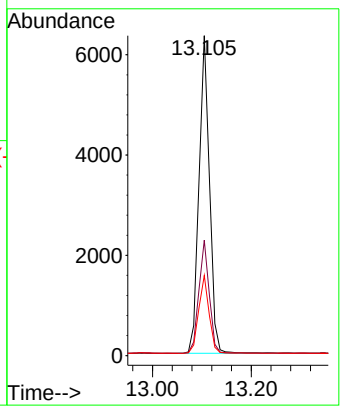


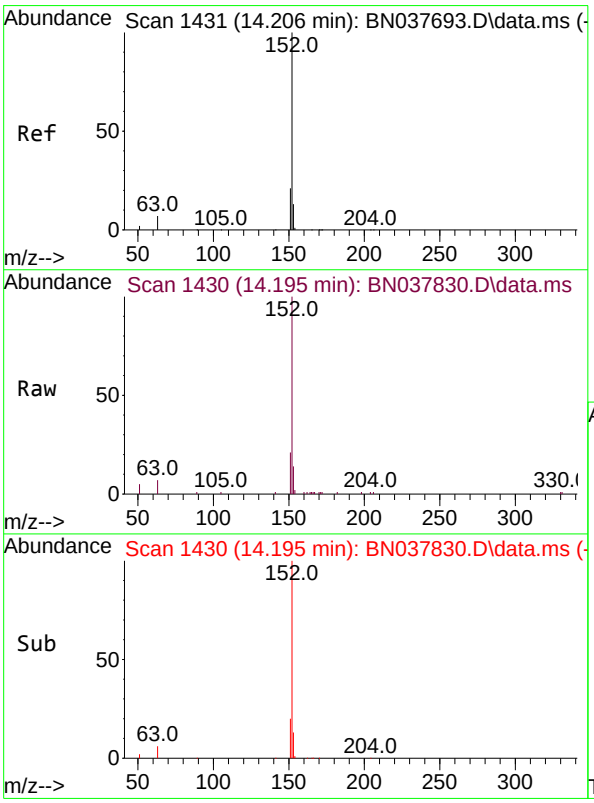

#15
2-Fluorobiphenyl
Concen: 0.388 ng
RT: 13.105 min Scan# 1
Delta R.T. -0.011 min
Lab File: BN037830.D
Acq: 20 Sep 2025 00:39

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4EC

Tgt Ion:172 Resp: 9332

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 172 | 100 | | |
| 171 | 36.1 | 28.6 | 43.0 |
| 170 | 25.0 | 19.8 | 29.8 |

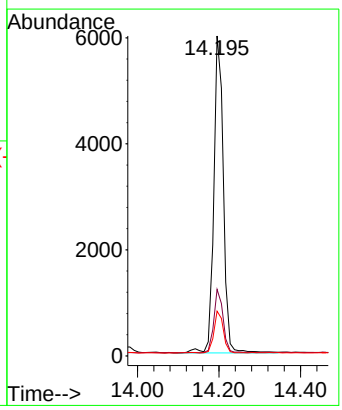


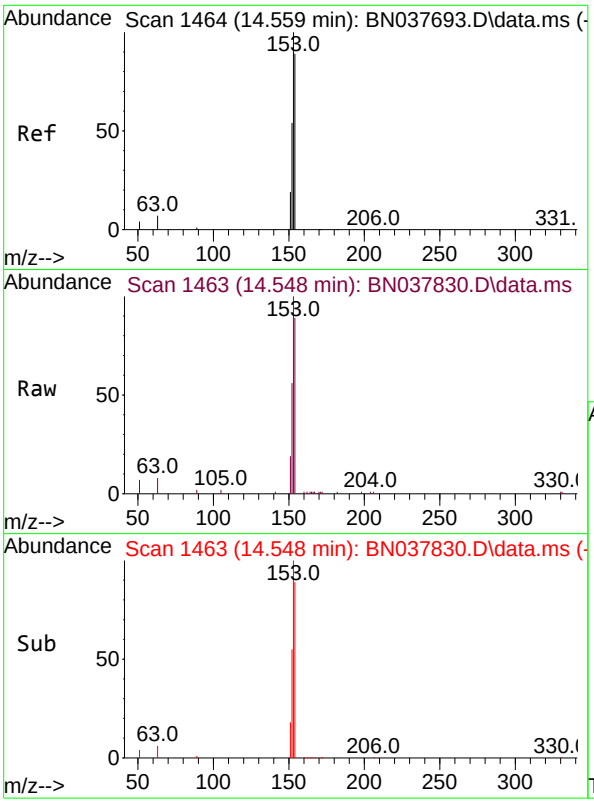




#16
Acenaphthylene
Concen: 0.370 ng
RT: 14.195 min Scan# 1430
Delta R.T. -0.011 min
Lab File: BN037830.D
Acq: 20 Sep 2025 00:39

Tgt Ion:152 Resp: 9766

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 151 | 19.4 | 16.2 | 24.2 |
| 153 | 12.8 | 10.4 | 15.6 |



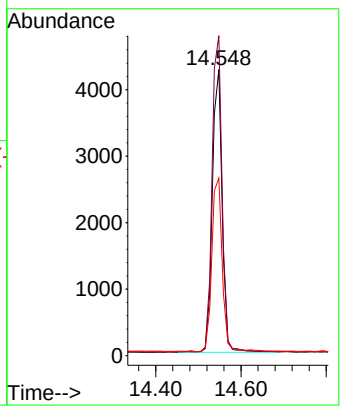


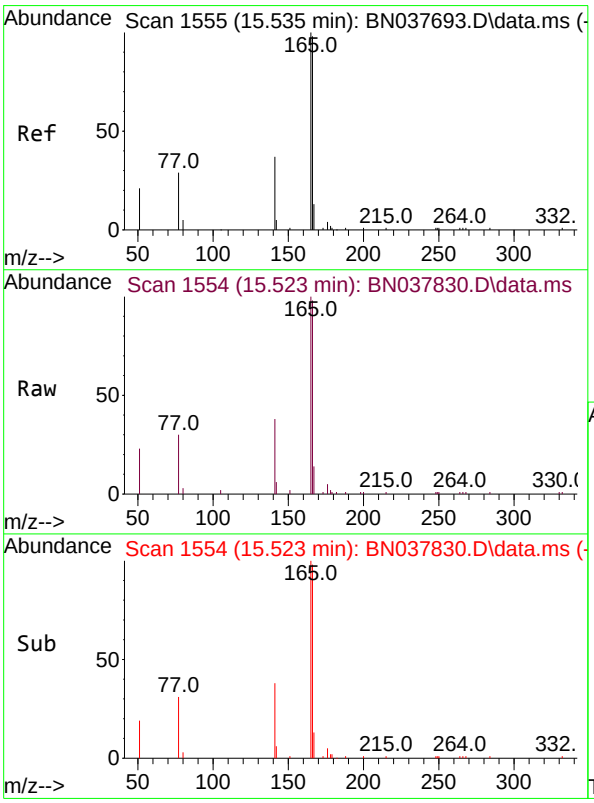

#17
Acenaphthene
Concen: 0.382 ng
RT: 14.548 min Scan# 14
Delta R.T. -0.011 min
Lab File: BN037830.D
Acq: 20 Sep 2025 00:39

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4EC

Tgt Ion:154 Resp: 6828

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 154 | 100 | | |
| 153 | 113.4 | 89.8 | 134.8 |
| 152 | 65.3 | 50.2 | 75.2 |

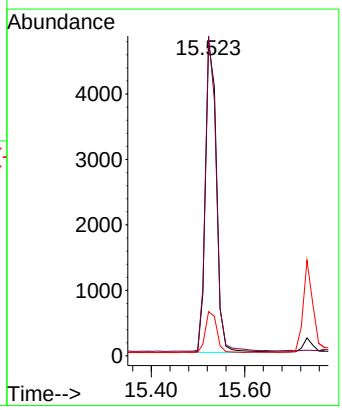


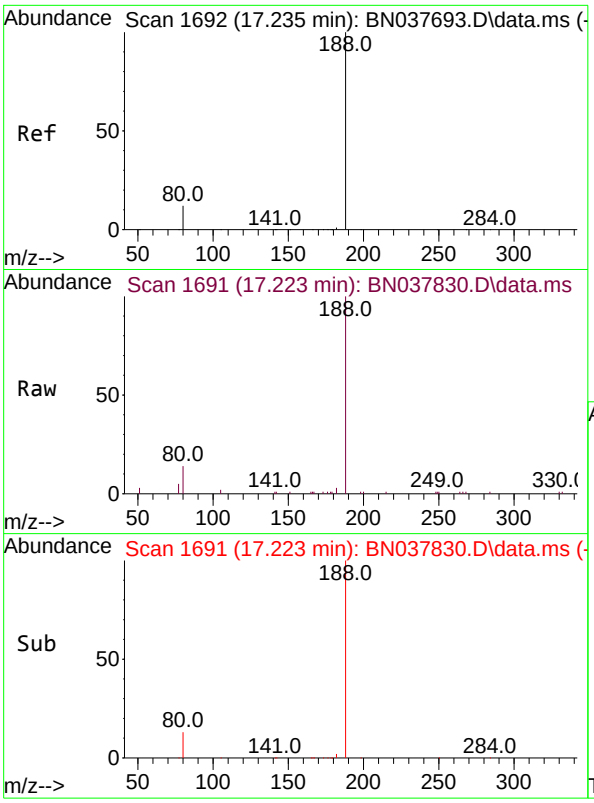




#18
Fluorene
Concen: 0.352 ng
RT: 15.523 min Scan# 1554
Delta R.T. -0.012 min
Lab File: BN037830.D
Acq: 20 Sep 2025 00:39

Tgt Ion:166 Resp: 7620

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 166 | 100 | | |
| 165 | 100.3 | 79.6 | 119.4 |
| 167 | 13.4 | 10.6 | 16.0 |



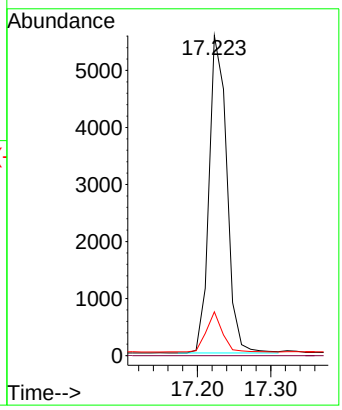


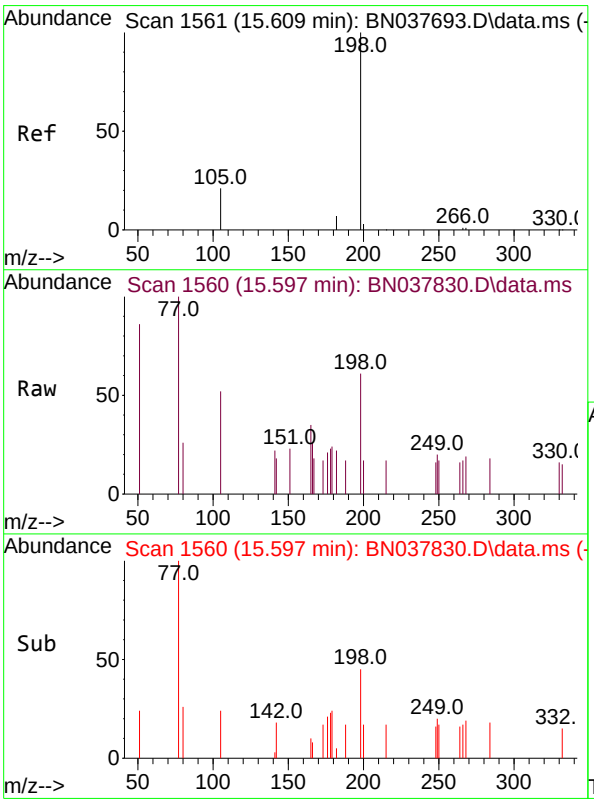

#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.223 min Scan# 1
Delta R.T. -0.012 min
Lab File: BN037830.D
Acq: 20 Sep 2025 00:39

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4EC

Tgt Ion:188 Resp: 9339

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 188 | 100 | | |
| 94 | 0.0 | 0.0 | 0.0 |
| 80 | 13.7 | 10.6 | 15.8 |

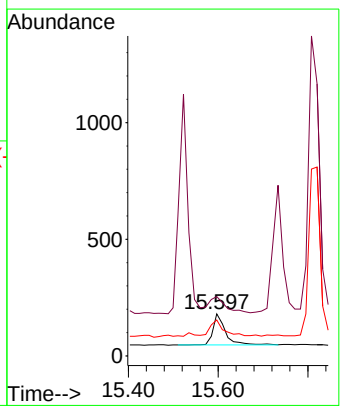


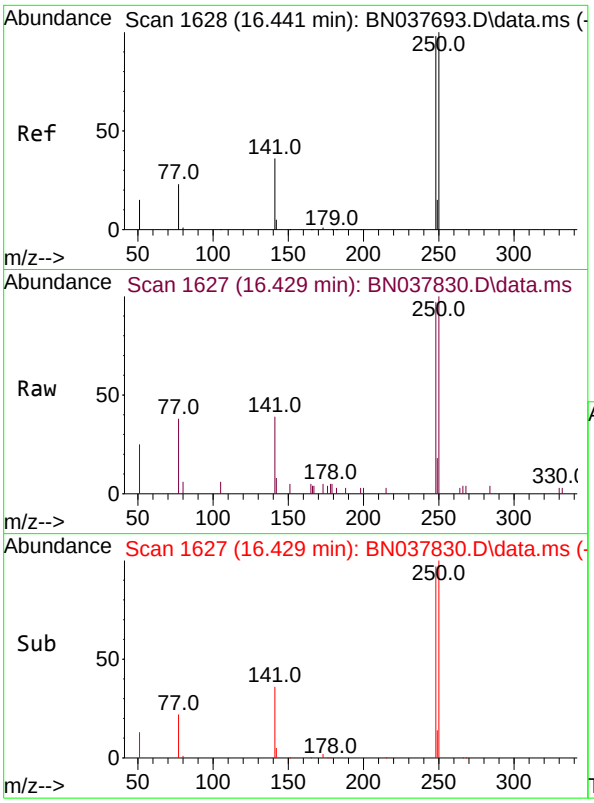




#20
4,6-Dinitro-2-methylphenol
Concen: 0.297 ng
RT: 15.597 min Scan# 1560
Delta R.T. -0.012 min
Lab File: BN037830.D
Acq: 20 Sep 2025 00:39

Tgt Ion:198 Resp: 257

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 198 | 100 | | |
| 51 | 141.1 | 95.1 | 142.7 |
| 105 | 85.6 | 53.8 | 80.6# |



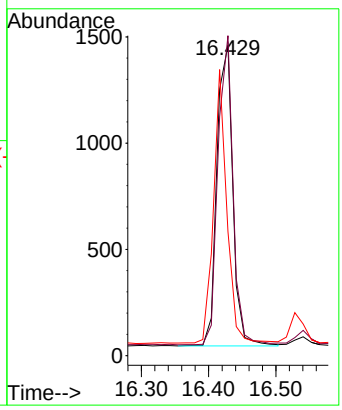


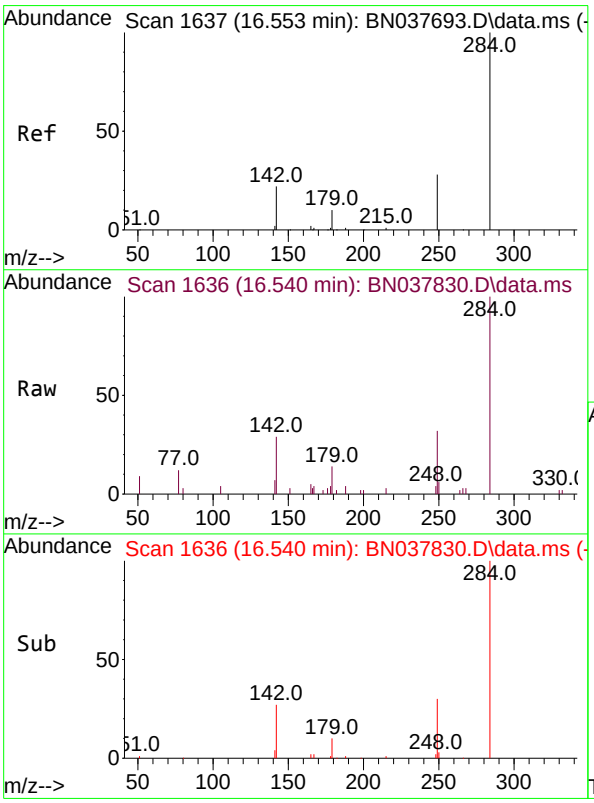

#21
4-Bromophenyl-phenylether
Concen: 0.383 ng
RT: 16.429 min Scan# 1
Delta R.T. -0.012 min
Lab File: BN037830.D
Acq: 20 Sep 2025 00:39

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4EC

Tgt Ion:248 Resp: 2332

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 248 | 100 | | |
| 250 | 103.2 | 81.5 | 122.3 |
| 141 | 40.0 | 30.8 | 46.2 |

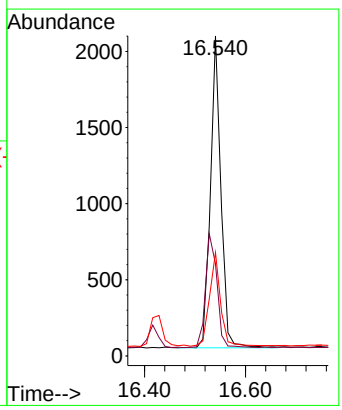


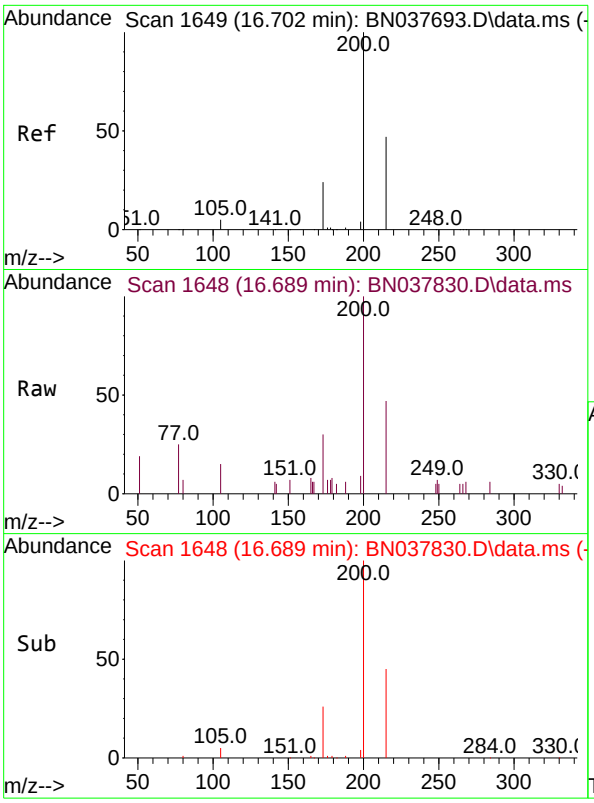




#22
Hexachlorobenzene
Concen: 0.424 ng
RT: 16.540 min Scan# 1636
Delta R.T. -0.012 min
Lab File: BN037830.D
Acq: 20 Sep 2025 00:39

Tgt Ion:284 Resp: 2969

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 284 | 100 | | |
| 142 | 39.6 | 30.9 | 46.3 |
| 249 | 31.5 | 24.8 | 37.2 |



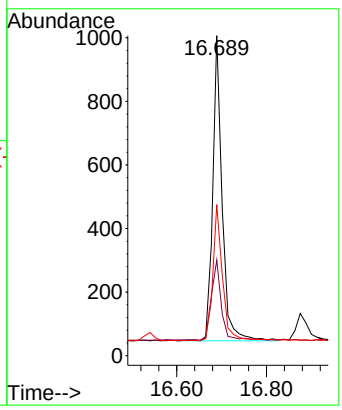


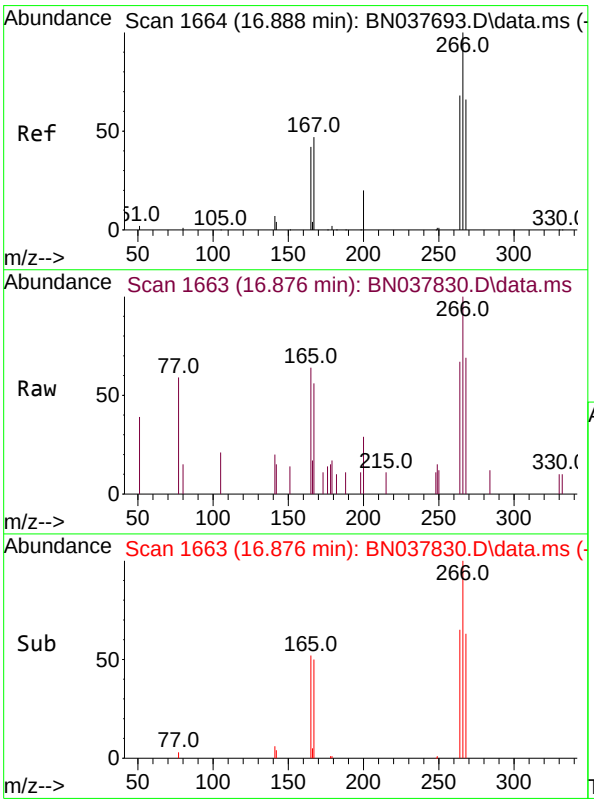

#23
Atrazine
Concen: 0.361 ng
RT: 16.689 min Scan# 1
Delta R.T. -0.012 min
Lab File: BN037830.D
Acq: 20 Sep 2025 00:39

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4EC

Tgt Ion:200 Resp: 1399

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 200 | 100 | | |
| 173 | 29.9 | 21.4 | 32.2 |
| 215 | 47.2 | 39.2 | 58.8 |

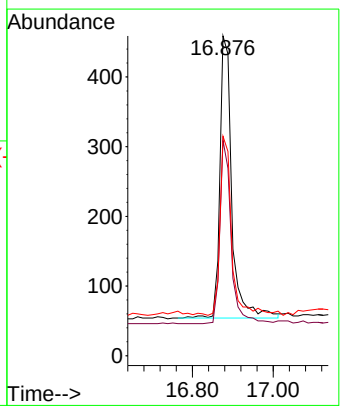


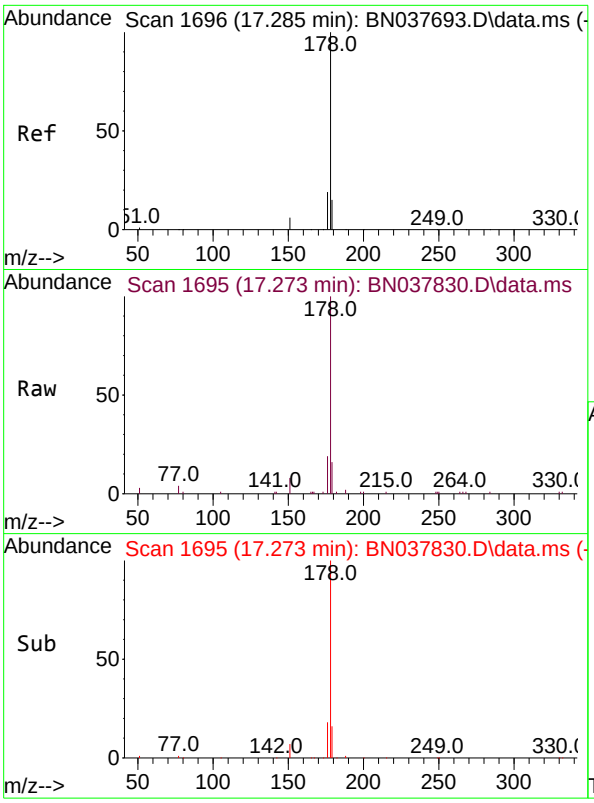




#24
Pentachlorophenol
Concen: 0.408 ng
RT: 16.876 min Scan# 1663
Delta R.T. -0.012 min
Lab File: BN037830.D
Acq: 20 Sep 2025 00:39

Tgt Ion:266 Resp: 830

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 266 | 100 | | |
| 264 | 61.1 | 51.6 | 77.4 |
| 268 | 61.9 | 53.2 | 79.8 |



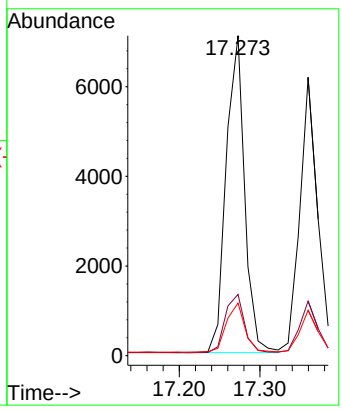


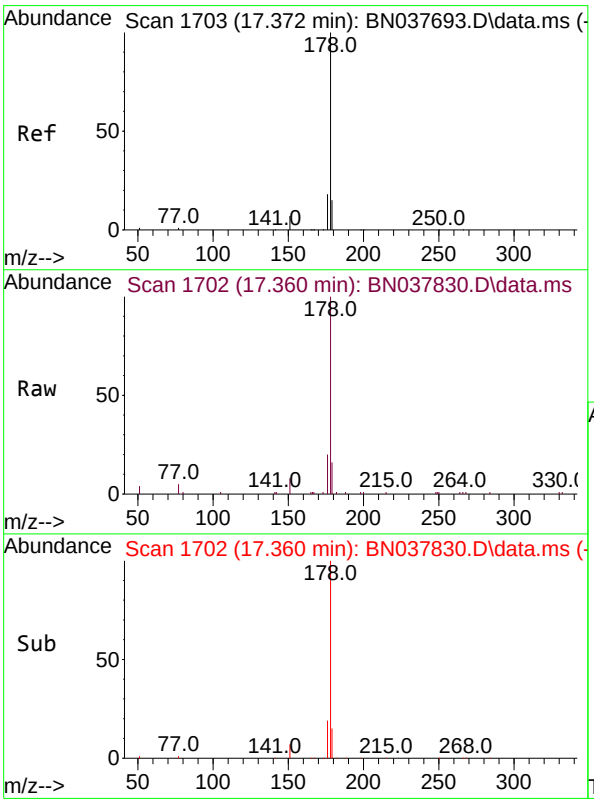

#25
Phenanthrene
Concen: 0.383 ng
RT: 17.273 min Scan# 1
Delta R.T. -0.012 min
Lab File: BN037830.D
Acq: 20 Sep 2025 00:39

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4EC

Tgt Ion:178 Resp: 11247

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 178 | 100 | | |
| 176 | 19.2 | 15.3 | 22.9 |
| 179 | 15.6 | 12.2 | 18.2 |

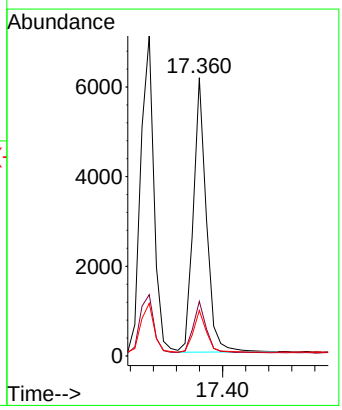


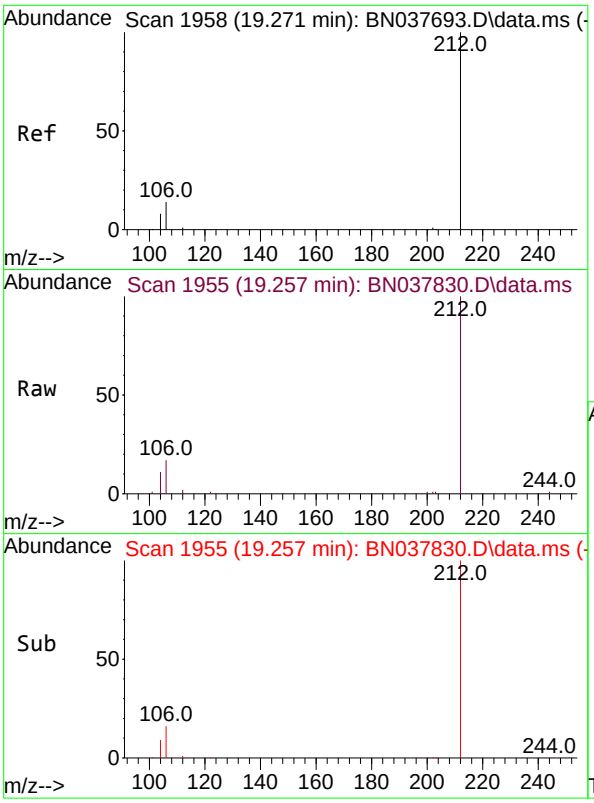




#26
Anthracene
Concen: 0.369 ng
RT: 17.360 min Scan# 1702
Delta R.T. -0.012 min
Lab File: BN037830.D
Acq: 20 Sep 2025 00:39

Tgt Ion:178 Resp: 9601

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 178 | 100 | | |
| 176 | 18.8 | 14.6 | 22.0 |
| 179 | 15.4 | 12.2 | 18.4 |



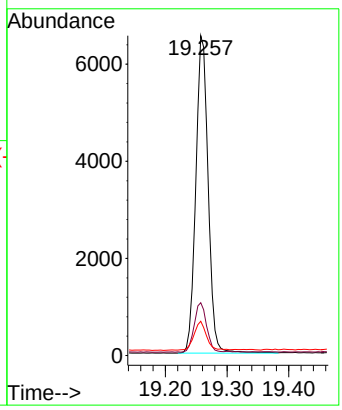


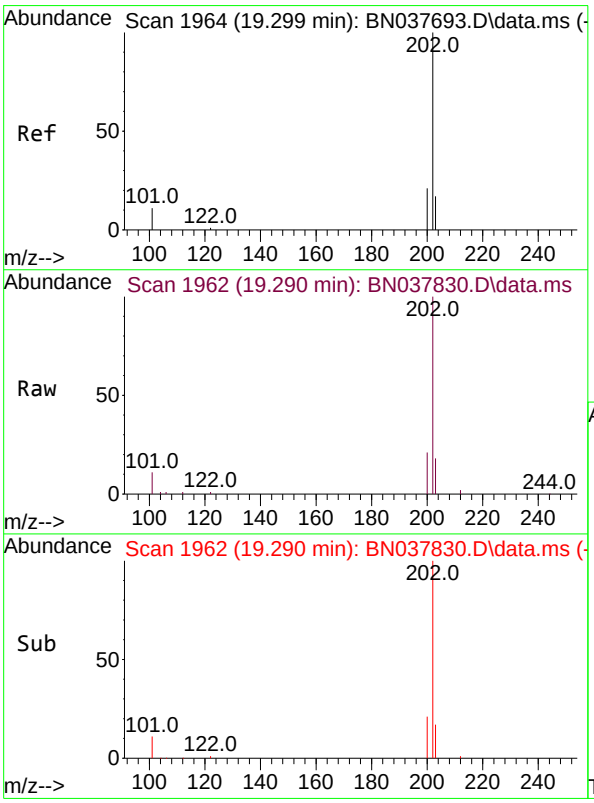

#27
Fluoranthene-d10
Concen: 0.387 ng
RT: 19.257 min Scan# 19
Delta R.T. -0.014 min
Lab File: BN037830.D
Acq: 20 Sep 2025 00:39

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4EC

Tgt Ion:212 Resp: 9064

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 212 | 100 | | |
| 106 | 15.5 | 12.2 | 18.2 |
| 104 | 9.0 | 6.9 | 10.3 |

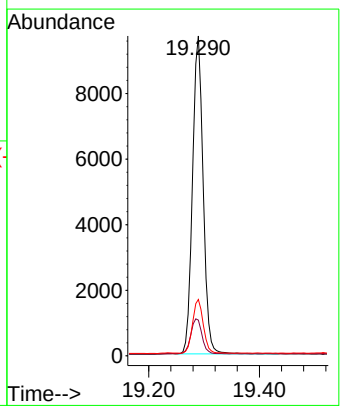


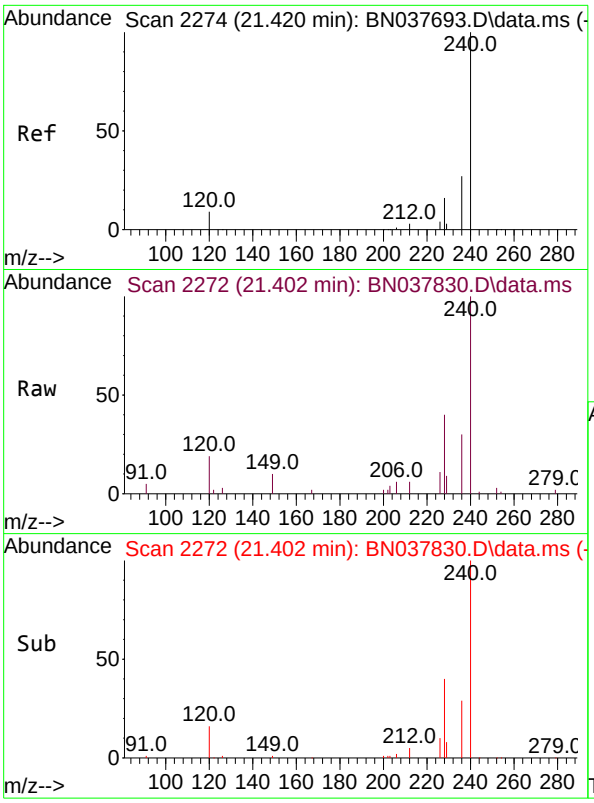




#28
Fluoranthene
Concen: 0.402 ng
RT: 19.290 min Scan# 1962
Delta R.T. -0.009 min
Lab File: BN037830.D
Acq: 20 Sep 2025 00:39

Tgt Ion:202 Resp: 12968

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 202 | 100 | | |
| 101 | 11.9 | 9.3 | 13.9 |
| 203 | 17.0 | 13.7 | 20.5 |



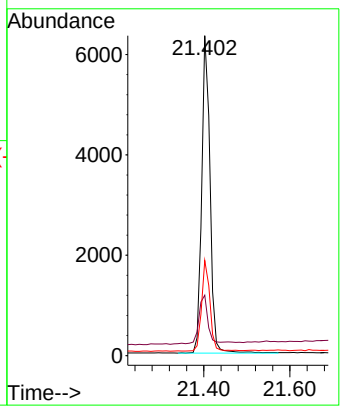


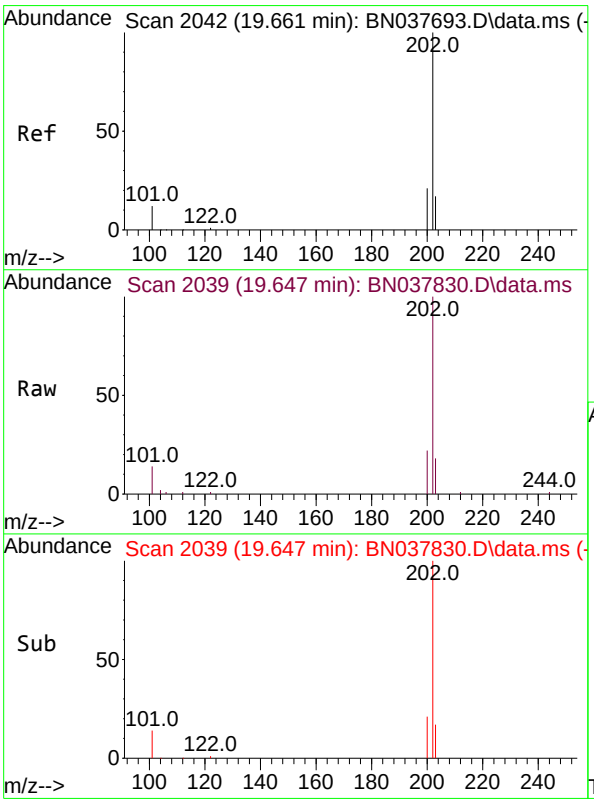

#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.402 min Scan# 21
Delta R.T. -0.018 min
Lab File: BN037830.D
Acq: 20 Sep 2025 00:39

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4EC

Tgt Ion:240 Resp: 8425

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 240 | 100 | | |
| 120 | 18.9 | 9.2 | 13.8# |
| 236 | 29.7 | 22.6 | 33.8 |

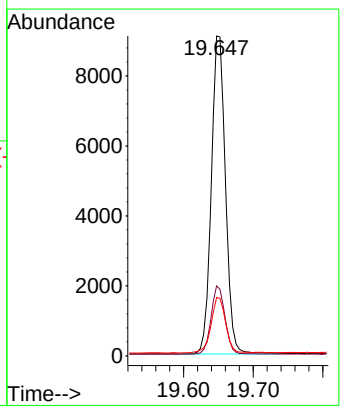


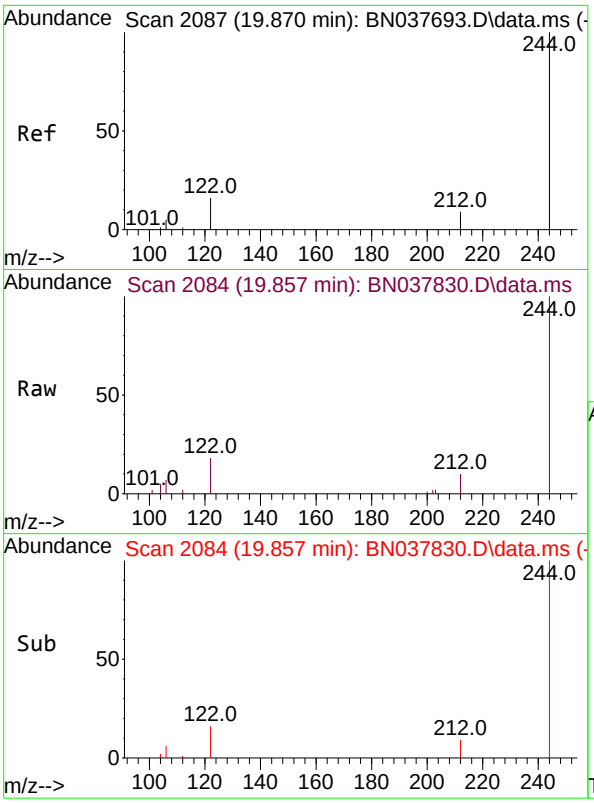




#30
Pyrene
Concen: 0.388 ng
RT: 19.647 min Scan# 2039
Delta R.T. -0.014 min
Lab File: BN037830.D
Acq: 20 Sep 2025 00:39

Tgt Ion:202 Resp: 12812

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 202 | 100 | | |
| 200 | 21.2 | 16.8 | 25.2 |
| 203 | 17.8 | 14.3 | 21.5 |



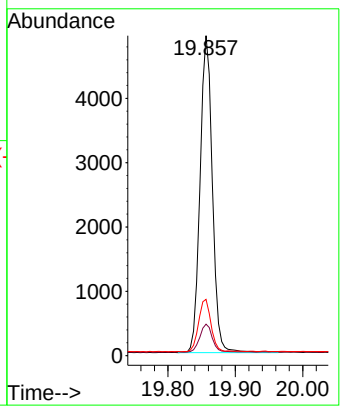


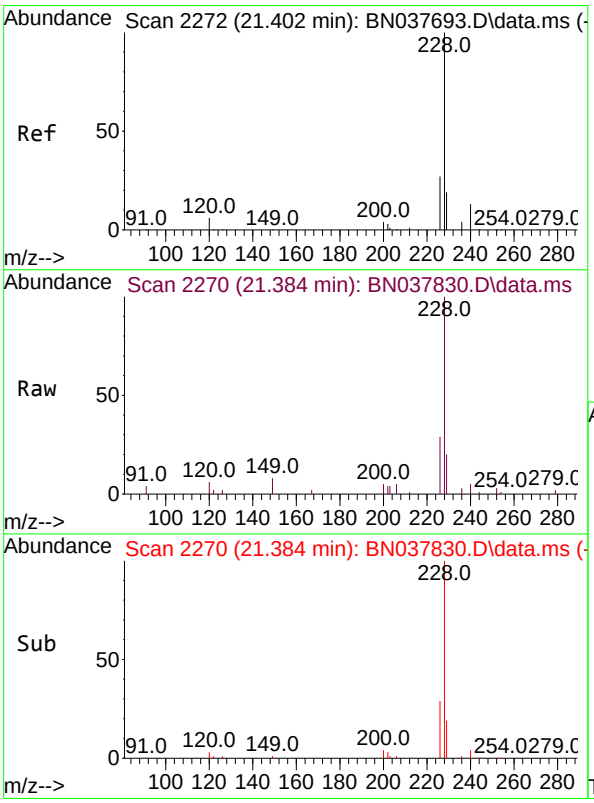

#31
Terphenyl-d14
Concen: 0.365 ng
RT: 19.857 min Scan# 20
Delta R.T. -0.014 min
Lab File: BN037830.D
Acq: 20 Sep 2025 00:39

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4EC

Tgt Ion:244 Resp: 6240

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 244 | 100 | | |
| 212 | 9.8 | 7.5 | 11.3 |
| 122 | 17.6 | 13.2 | 19.8 |

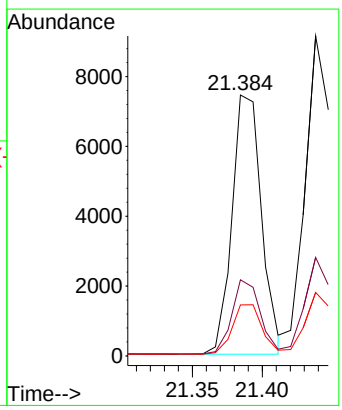


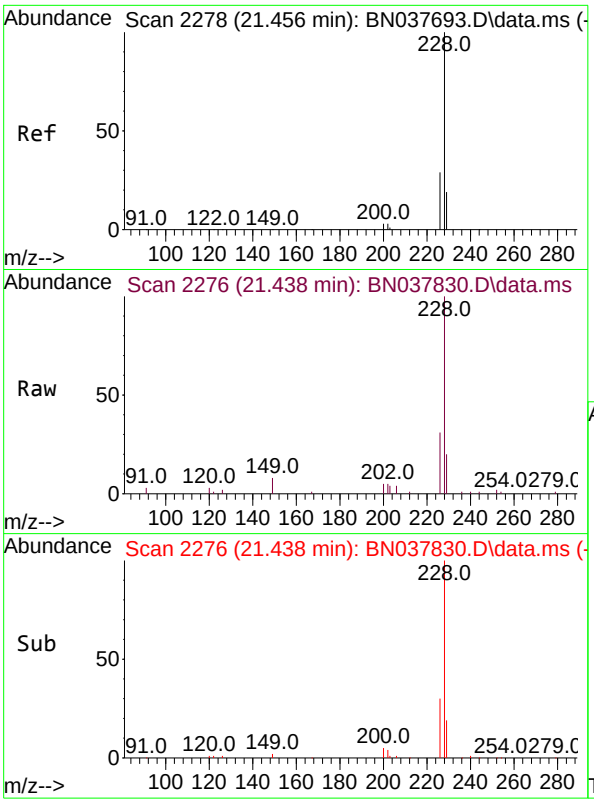




#32
Benzo(a)anthracene
Concen: 0.370 ng
RT: 21.384 min Scan# 2270
Delta R.T. -0.018 min
Lab File: BN037830.D
Acq: 20 Sep 2025 00:39

Tgt Ion:228 Resp: 10867

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 228 | 100 | | |
| 226 | 29.1 | 22.2 | 33.2 |
| 229 | 19.5 | 15.8 | 23.6 |



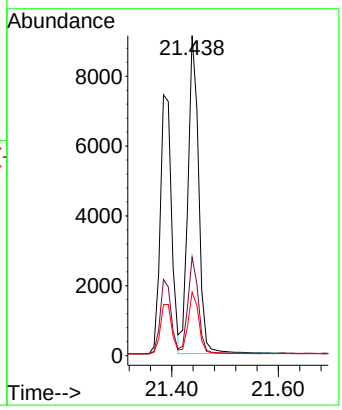


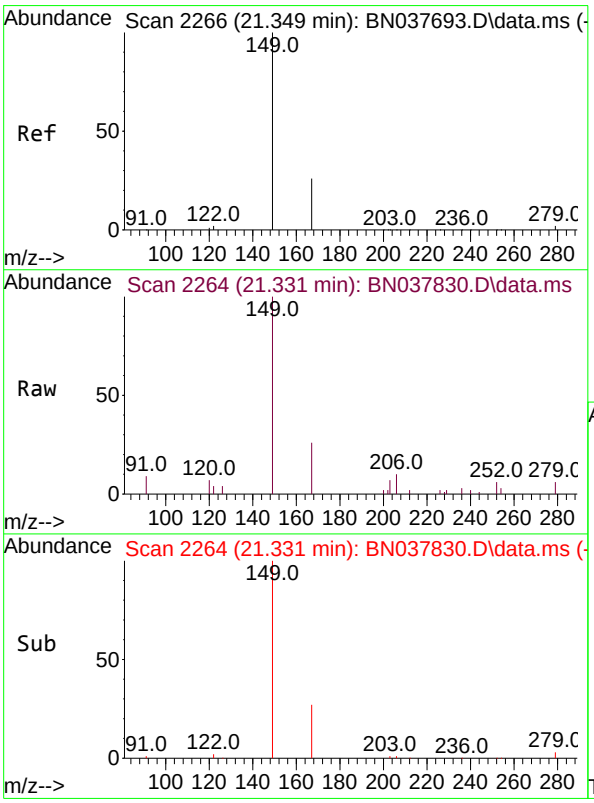

#33
Chrysene
Concen: 0.399 ng
RT: 21.438 min Scan# 2
Delta R.T. -0.018 min
Lab File: BN037830.D
Acq: 20 Sep 2025 00:39

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4EC

Tgt Ion:228 Resp: 12584

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 228 | 100 | | |
| 226 | 30.8 | 23.5 | 35.3 |
| 229 | 19.8 | 15.9 | 23.9 |

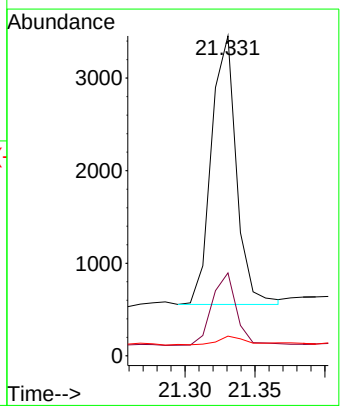


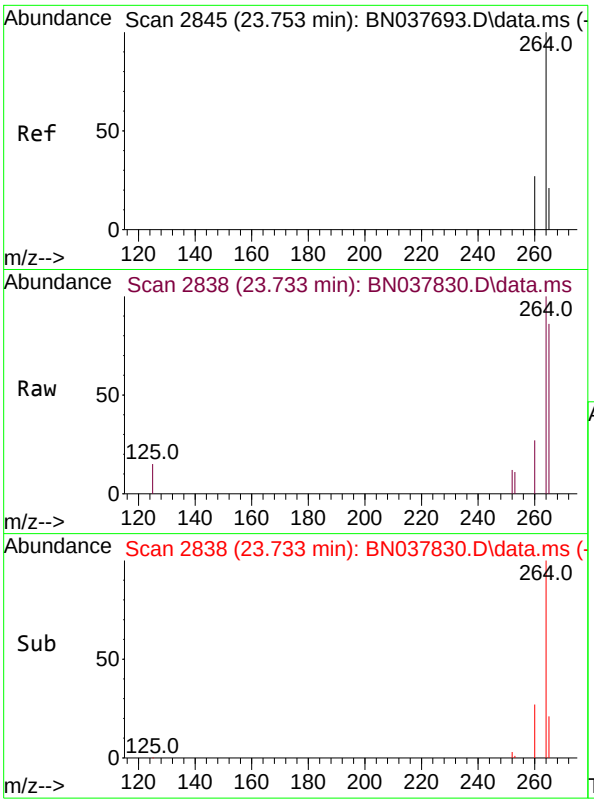




#34
Bis(2-ethylhexyl)phthalate
Concen: 0.414 ng
RT: 21.331 min Scan# 2264
Delta R.T. -0.018 min
Lab File: BN037830.D
Acq: 20 Sep 2025 00:39

Tgt Ion:149 Resp: 3605

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 149 | 100 | | |
| 167 | 26.7 | 20.8 | 31.2 |
| 279 | 3.5 | 3.3 | 4.9 |



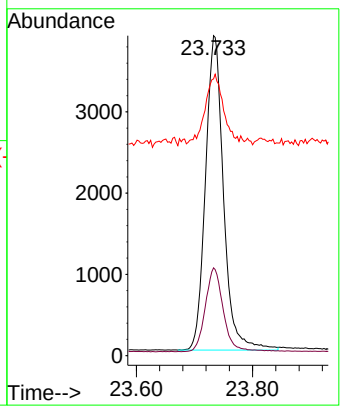


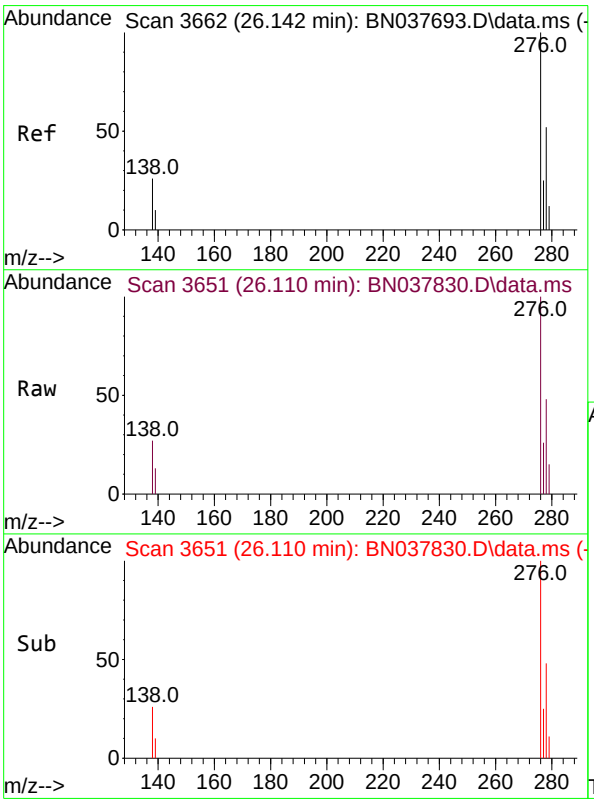

#35
Perylene-d12
Concen: 0.400 ng
RT: 23.733 min Scan# 28
Delta R.T. -0.020 min
Lab File: BN037830.D
Acq: 20 Sep 2025 00:39

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4EC

Tgt Ion:264 Resp: 8348

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 264 | 100 | | |
| 260 | 27.4 | 21.8 | 32.8 |
| 265 | 86.5 | 39.4 | 59.2# |

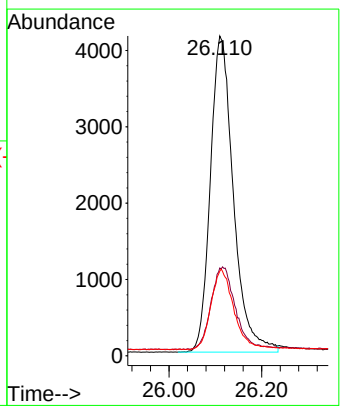


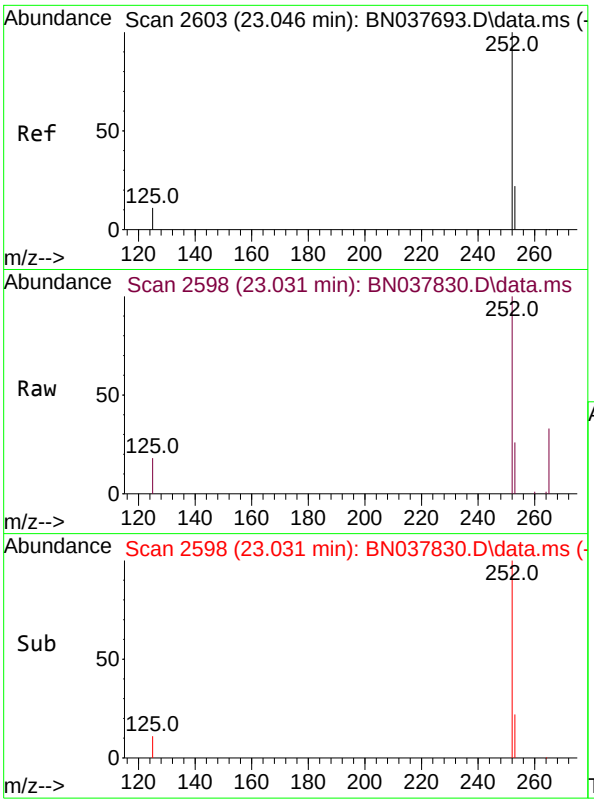




#36
Indeno(1,2,3-cd)pyrene
Concen: 0.408 ng
RT: 26.110 min Scan# 3651
Delta R.T. -0.032 min
Lab File: BN037830.D
Acq: 20 Sep 2025 00:39

Tgt Ion:276 Resp: 14316

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 276 | 100 | | |
| 138 | 26.8 | 21.9 | 32.9 |
| 277 | 25.2 | 20.1 | 30.1 |



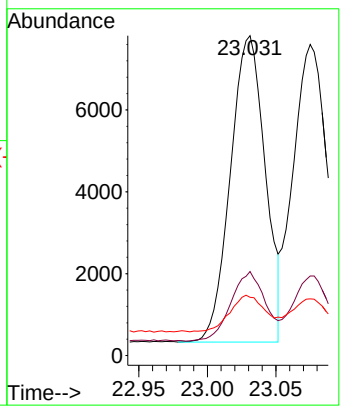


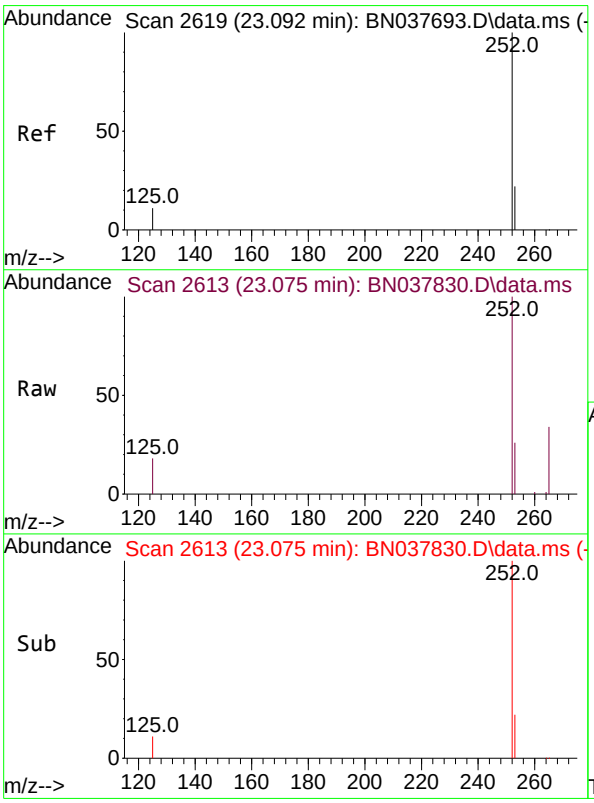

#37
Benzo(b)fluoranthene
Concen: 0.402 ng
RT: 23.031 min Scan# 2
Delta R.T. -0.015 min
Lab File: BN037830.D
Acq: 20 Sep 2025 00:39

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4EC

Tgt Ion:252 Resp: 13207

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 26.3 | 19.4 | 29.2 |
| 125 | 18.2 | 11.2 | 16.8# |

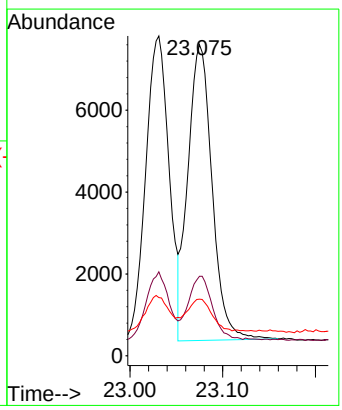


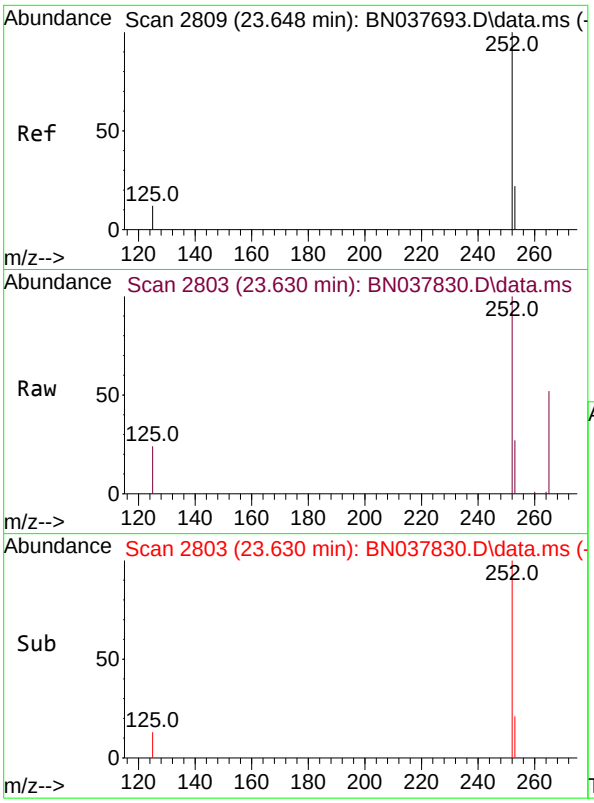




#38
Benzo(k)fluoranthene
Concen: 0.392 ng
RT: 23.075 min Scan# 2613
Delta R.T. -0.018 min
Lab File: BN037830.D
Acq: 20 Sep 2025 00:39

Tgt Ion:252 Resp: 13139

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 25.6 | 19.4 | 29.0 |
| 125 | 18.2 | 11.6 | 17.4# |



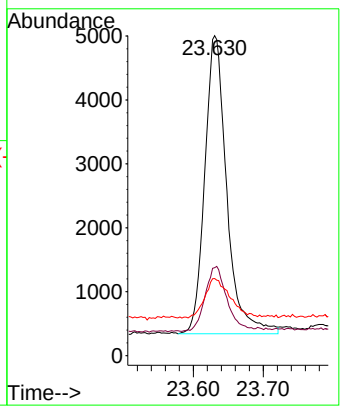


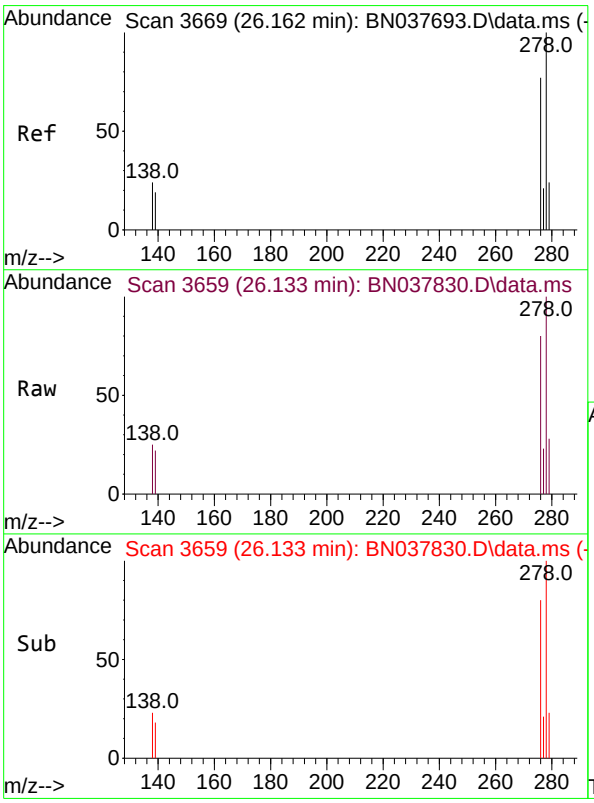

#39
Benzo(a)pyrene
Concen: 0.387 ng
RT: 23.630 min Scan# 28
Delta R.T. -0.018 min
Lab File: BN037830.D
Acq: 20 Sep 2025 00:39

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4EC

Tgt Ion:252 Resp: 10193

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 27.5 | 20.8 | 31.2 |
| 125 | 24.1 | 13.9 | 20.9# |

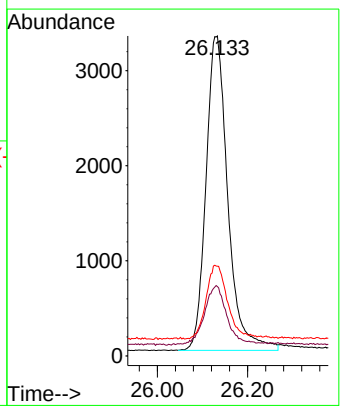


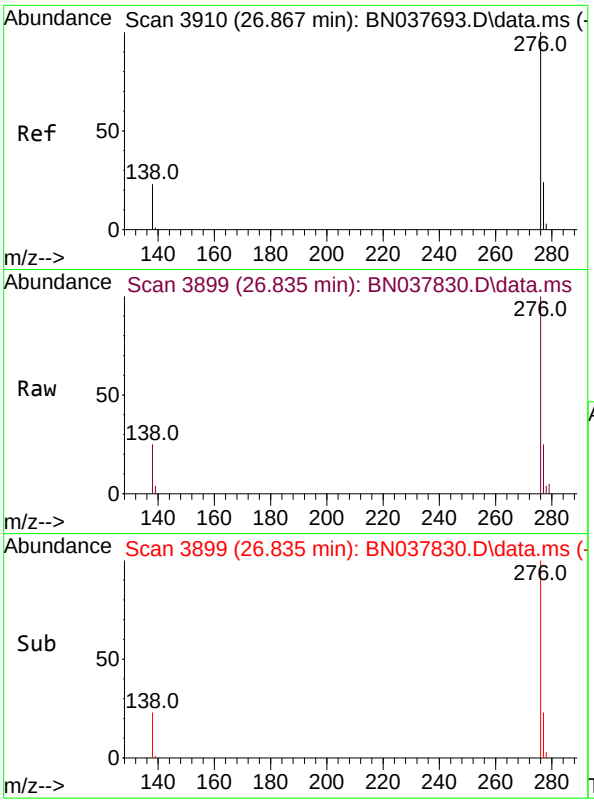




#40
Dibenzo(a,h)anthracene
Concen: 0.397 ng
RT: 26.133 min Scan# 3659
Delta R.T. -0.029 min
Lab File: BN037830.D
Acq: 20 Sep 2025 00:39

Tgt Ion:278 Resp: 11121

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 278 | 100 | | |
| 139 | 21.7 | 17.8 | 26.6 |
| 279 | 28.0 | 22.0 | 33.0 |



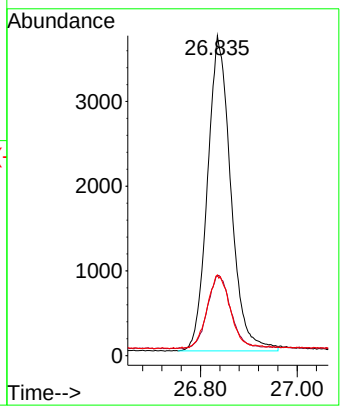



#41
Benzo(g,h,i)perylene
Concen: 0.396 ng
RT: 26.835 min Scan# 3
Delta R.T. -0.032 min
Lab File: BN037830.D
Acq: 20 Sep 2025 00:39

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4EC

Tgt Ion:276 Resp: 12456

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 276 | 100 | | |
| 277 | 24.8 | 20.6 | 31.0 |
| 138 | 25.3 | 20.2 | 30.2 |



Sample Results: **BN037830.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN091925\
Data File : BN037830.D
Acq On : 20 Sep 2025 00:39
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 19 Sample Multiplier: 1

**Instrument :**
BNA_N
**LabSampleId :**
SSTDCCC0.4

Quant Time: Sep 20 01:04:32 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN091125.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Sep 11 14:20:01 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 | 95 | -0.01 |
| 2 | | 1,4-Dioxane | 0.417 | 0.395 | 5.3 | 89 | 0.00 |
| 3 | | n-Nitrosodimethylamine | 0.544 | 0.543 | 0.2 | 92 | 0.00 |
| 4 | S | 2-Fluorophenol | 0.918 | 0.830 | 9.6 | 89 | 0.00 |
| 5 | S | Phenol-d6 | 1.191 | 1.088 | 8.6 | 90 | 0.00 |
| 6 | | bis(2-Chloroethyl)ether | 1.064 | 0.999 | 6.1 | 89 | -0.01 |
| 7 | I | Naphthalene-d8 | 1.000 | 1.000 | 0.0 | 97 | -0.01 |
| 8 | S | Nitrobenzene-d5 | 0.293 | 0.282 | 3.8 | 96 | -0.01 |
| 9 | | Naphthalene | 1.093 | 1.041 | 4.8 | 94 | -0.01 |
| 10 | | Hexachlorobutadiene | 0.198 | 0.192 | 3.0 | 95 | -0.02 |
| 11 | SURR | 2-Methylnaphthalene-d10 | 0.530 | 0.471 | 11.1 | 92 | -0.02 |
| 12 | | 2-Methylnaphthalene | 0.676 | 0.626 | 7.4 | 92 | -0.02 |
| 13 | I | Acenaphthene-d10 | 1.000 | 1.000 | 0.0 | 93 | -0.01 |
| 14 | S | 2,4,6-Tribromophenol | 0.104 | 0.105 | -1.0 | 97 | -0.01 |
| 15 | S | 2-Fluorobiphenyl | 1.673 | 1.621 | 3.1 | 91 | -0.01 |
| 16 | | Acenaphthylene | 1.834 | 1.696 | 7.5 | 88 | -0.01 |
| 17 | | Acenaphthene | 1.240 | 1.186 | 4.4 | 91 | -0.01 |
| 18 | | Fluorene | 1.502 | 1.324 | 11.9 | 85 | -0.01 |
| 19 | I | Phenanthrene-d10 | 1.000 | 1.000 | 0.0 | 83 | -0.01 |
| 20 | | 4,6-Dinitro-2-methylphenol | 0.037 | 0.028 | 24.3 | 69 | -0.01 |
| 21 | | 4-Bromophenyl-phenylether | 0.261 | 0.250 | 4.2 | 82 | -0.01 |
| 22 | | Hexachlorobenzene | 0.300 | 0.318 | -6.0 | 90 | -0.01 |
| 23 | | Atrazine | 0.166 | 0.150 | 9.6 | 82 | -0.01 |
| 24 | | Pentachlorophenol | 0.087 | 0.089 | -2.3 | 99 | -0.01 |
| 25 | | Phenanthrene | 1.259 | 1.204 | 4.4 | 82 | -0.01 |
| 26 | | Anthracene | 1.116 | 1.028 | 7.9 | 80 | -0.01 |
| 27 | SURR | Fluoranthene-d10 | 1.004 | 0.971 | 3.3 | 86 | -0.01 |
| 28 | | Fluoranthene | 1.381 | 1.389 | -0.6 | 88 | 0.00 |
| 29 | I | Chrysene-d12 | 1.000 | 1.000 | 0.0 | 90 | -0.02 |
| 30 | | Pyrene | 1.566 | 1.521 | 2.9 | 88 | -0.01 |
| 31 | S | Terphenyl-d14 | 0.812 | 0.741 | 8.7 | 83 | -0.01 |
| 32 | | Benzo(a)anthracene | 1.395 | 1.290 | 7.5 | 86 | -0.02 |
| 33 | | Chrysene | 1.496 | 1.494 | 0.1 | 90 | -0.02 |
| 34 | | Bis(2-ethylhexyl)phthalate | 0.414 | 0.428 | -3.4 | 102 | -0.02 |
| 35 | I | Perylene-d12 | 1.000 | 1.000 | 0.0 | 93 | -0.02 |
| 36 | | Indeno(1,2,3-cd)pyrene | 1.681 | 1.715 | -2.0 | 103 | -0.03 |
| 37 | | Benzo(b)fluoranthene | 1.575 | 1.582 | -0.4 | 95 | -0.01 |
| 38 | | Benzo(k)fluoranthene | 1.606 | 1.574 | 2.0 | 96 | -0.02 |
| 39 | C | Benzo(a)pyrene | 1.261 | 1.221 | 3.2 | 95 | -0.02 |
| 40 | | Dibenzo(a,h)anthracene | 1.342 | 1.332 | 0.7 | 102 | -0.03 |
| 41 | | Benzo(g,h,i)perylene | 1.506 | 1.492 | 0.9 | 96 | -0.03 |

(#) = Out of Range SPCC's out = 0 CCC's out = 0

**Instrument :**
BNA_N
**LabSampleId :**
SSTDCCC0.4

Sample Results: **BN037830.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN091925\
Data File : BN037830.D
Acq On : 20 Sep 2025 00:39
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 19 Sample Multiplier: 1

**Instrument :**
BNA_N
**LabSampleId :**
SSTDCCC0.4

Quant Time: Sep 20 01:04:32 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN091125.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Sep 11 14:20:01 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 | 95 | -0.01 |
| 2 | | 1,4-Dioxane | 0.400 | 0.379 | 5.3 | 89 | 0.00 |
| 3 | | n-Nitrosodimethylamine | 0.400 | 0.399 | 0.3 | 92 | 0.00 |
| 4 | S | 2-Fluorophenol | 0.400 | 0.361 | 9.8 | 89 | 0.00 |
| 5 | S | Phenol-d6 | 0.400 | 0.365 | 8.8 | 90 | 0.00 |
| 6 | | bis(2-Chloroethyl)ether | 0.400 | 0.376 | 6.0 | 89 | -0.01 |
| 7 | I | Naphthalene-d8 | 0.400 | 0.400 | 0.0 | 97 | -0.01 |
| 8 | S | Nitrobenzene-d5 | 0.400 | 0.386 | 3.5 | 96 | -0.01 |
| 9 | | Naphthalene | 0.400 | 0.381 | 4.8 | 94 | -0.01 |
| 10 | | Hexachlorobutadiene | 0.400 | 0.389 | 2.8 | 95 | -0.02 |
| 11 | SURR | 2-Methylnaphthalene-d10 | 0.400 | 0.355 | 11.3 | 92 | -0.02 |
| 12 | | 2-Methylnaphthalene | 0.400 | 0.370 | 7.5 | 92 | -0.02 |
| 13 | I | Acenaphthene-d10 | 0.400 | 0.400 | 0.0 | 93 | -0.01 |
| 14 | S | 2,4,6-Tribromophenol | 0.400 | 0.404 | -1.0 | 97 | -0.01 |
| 15 | S | 2-Fluorobiphenyl | 0.400 | 0.388 | 3.0 | 91 | -0.01 |
| 16 | | Acenaphthylene | 0.400 | 0.370 | 7.5 | 88 | -0.01 |
| 17 | | Acenaphthene | 0.400 | 0.382 | 4.5 | 91 | -0.01 |
| 18 | | Fluorene | 0.400 | 0.352 | 12.0 | 85 | -0.01 |
| 19 | I | Phenanthrene-d10 | 0.400 | 0.400 | 0.0 | 83 | -0.01 |
| 20 | | 4,6-Dinitro-2-methylphenol | 0.400 | 0.297 | 25.8# | 69 | -0.01 |
| 21 | | 4-Bromophenyl-phenylether | 0.400 | 0.383 | 4.3 | 82 | -0.01 |
| 22 | | Hexachlorobenzene | 0.400 | 0.424 | -6.0 | 90 | -0.01 |
| 23 | | Atrazine | 0.400 | 0.361 | 9.8 | 82 | -0.01 |
| 24 | | Pentachlorophenol | 0.400 | 0.408 | -2.0 | 99 | -0.01 |
| 25 | | Phenanthrene | 0.400 | 0.383 | 4.3 | 82 | -0.01 |
| 26 | | Anthracene | 0.400 | 0.369 | 7.8 | 80 | -0.01 |
| 27 | SURR | Fluoranthene-d10 | 0.400 | 0.387 | 3.3 | 86 | -0.01 |
| 28 | | Fluoranthene | 0.400 | 0.402 | -0.5 | 88 | 0.00 |
| 29 | I | Chrysene-d12 | 0.400 | 0.400 | 0.0 | 90 | -0.02 |
| 30 | | Pyrene | 0.400 | 0.388 | 3.0 | 88 | -0.01 |
| 31 | S | Terphenyl-d14 | 0.400 | 0.365 | 8.8 | 83 | -0.01 |
| 32 | | Benzo(a)anthracene | 0.400 | 0.370 | 7.5 | 86 | -0.02 |
| 33 | | Chrysene | 0.400 | 0.399 | 0.3 | 90 | -0.02 |
| 34 | | Bis(2-ethylhexyl)phthalate | 0.400 | 0.414 | -3.5 | 102 | -0.02 |
| 35 | I | Perylene-d12 | 0.400 | 0.400 | 0.0 | 93 | -0.02 |
| 36 | | Indeno(1,2,3-cd)pyrene | 0.400 | 0.408 | -2.0 | 103 | -0.03 |
| 37 | | Benzo(b)fluoranthene | 0.400 | 0.402 | -0.5 | 95 | -0.01 |
| 38 | | Benzo(k)fluoranthene | 0.400 | 0.392 | 2.0 | 96 | -0.02 |
| 39 | C | Benzo(a)pyrene | 0.400 | 0.387 | 3.3 | 95 | -0.02 |
| 40 | | Dibenzo(a,h)anthracene | 0.400 | 0.397 | 0.8 | 102 | -0.03 |
| 41 | | Benzo(g,h,i)perylene | 0.400 | 0.396 | 1.0 | 96 | -0.03 |

(#) = Out of Range SPCC's out = 0 CCC's out = 0

**Instrument :**
BNA_N
**LabSampleId :**
SSTDCCC0.4

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

7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: Alliance Contract: AECO15

Lab Code: ACE SDG No.: Q3095

Instrument ID: BNA_N Calibration Date/Time: 09/20/2025 02:35

Lab File ID: BN037832.D Init. Calib. Date(s): 09/11/2025 09/11/2025

EPA Sample No.: SSTDCCC0.4 Init. Calib. Time(s): 09:56 13:33

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

| COMPOUND | RRF | RRF0.4 | MIN RRF | %D | MAX%D |
|---|---|---|---|---|---|
| 2-Methylnaphthalene-d10 | 0.530 | 0.469 | | -11.5 | 20.0 |
| Fluoranthene-d10 | 1.004 | 0.832 | | -17.1 | 20.0 |
| 2-Fluorophenol | 0.918 | 0.870 | | -5.2 | 20.0 |
| Phenol-d6 | 1.191 | 1.110 | | -6.8 | 20.0 |
| Nitrobenzene-d5 | 0.293 | 0.281 | | -4.1 | 20.0 |
| 2-Fluorobiphenyl | 1.673 | 1.666 | | -0.4 | 20.0 |
| 2,4,6-Tribromophenol | 0.104 | 0.112 | | 7.7 | 20.0 |
| Terphenyl-d14 | 0.812 | 0.693 | | -14.7 | 20.0 |
| 1,4-Dioxane | 0.417 | 0.400 | | -4.1 | 20.0 |

All other compounds must meet a minimum RRF of 0.010.

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN091925\
Data File : BN037832.D
Acq On : 20 Sep 2025 02:35
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 20 Sample Multiplier: 1

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4

Quant Time: Sep 20 04:26:33 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN091125.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Sep 11 14:20:01 2025
Response via : Initial Calibration

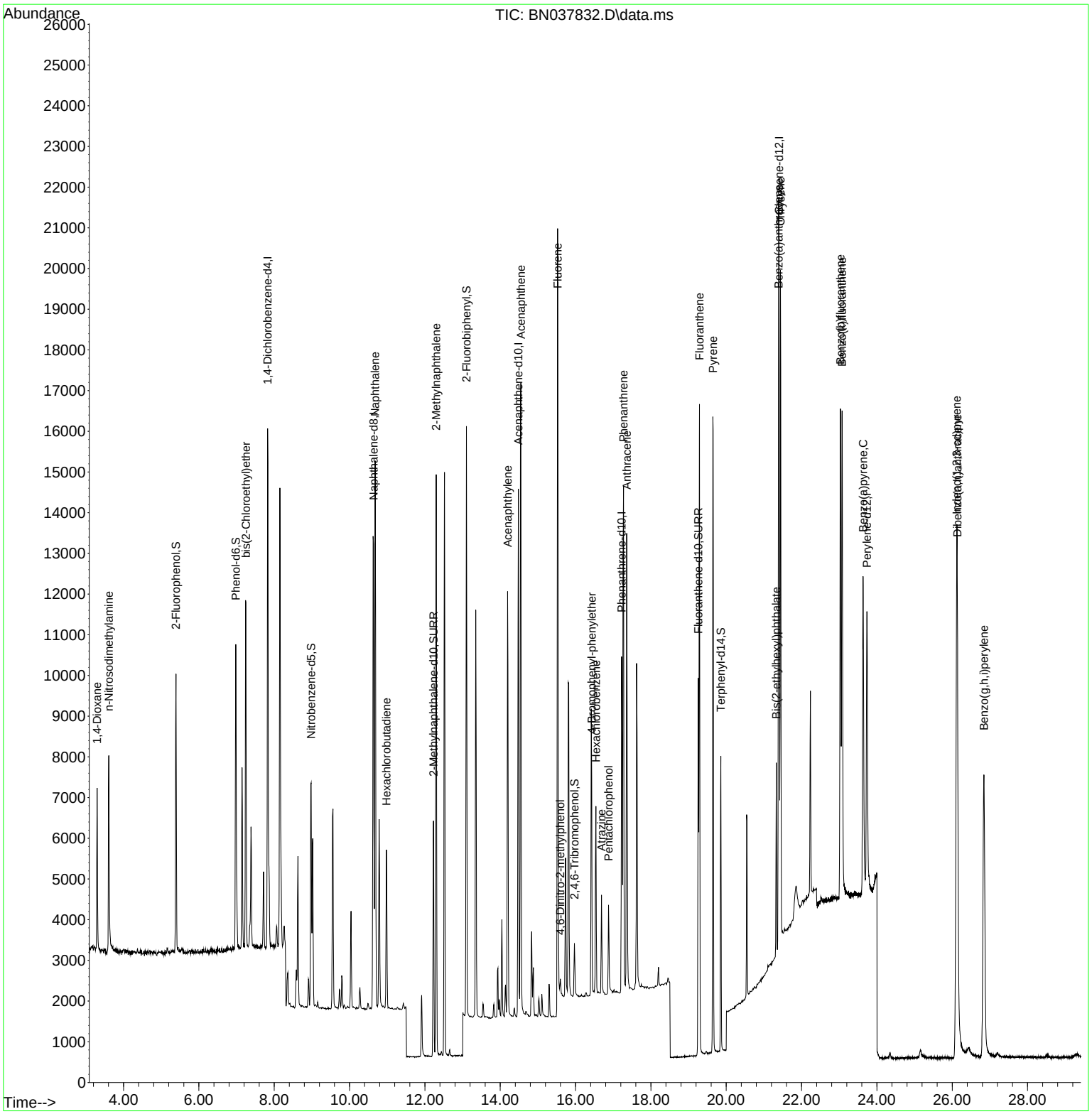
| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| Internal Standards | | | | | | | |
| 1) 1,4-Dichlorobenzene-d4 | 7.825 | 152 | 6232 | 0.400 | ng | | -0.01 |
| 7) Naphthalene-d8 | 10.637 | 136 | 16500 | 0.400 | ng | | #-0.01 |
| 13) Acenaphthene-d10 | 14.484 | 164 | 7183 | 0.400 | ng | | -0.01 |
| 19) Phenanthrene-d10 | 17.223 | 188 | 11907 | 0.400 | ng | | -0.01 |
| 29) Chrysene-d12 | 21.402 | 240 | 9777 | 0.400 | ng | | #-0.02 |
| 35) Perylene-d12 | 23.736 | 264 | 10066 | 0.400 | ng | | #-0.02 |
| System Monitoring Compounds | | | | | | | |
| 4) 2-Fluorophenol | 5.392 | 112 | 5424 | 0.379 | ng | | 0.00 |
| 5) Phenol-d6 | 6.980 | 99 | 6919 | 0.373 | ng | | 0.00 |
| 8) Nitrobenzene-d5 | 8.982 | 82 | 4642 | 0.385 | ng | | -0.01 |
| 11) 2-Methylnaphthalene-d10 | 12.227 | 152 | 7736 | 0.354 | ng | | -0.02 |
| 14) 2,4,6-Tribromophenol | 15.969 | 330 | 801 | 0.428 | ng | | -0.01 |
| 15) 2-Fluorobiphenyl | 13.105 | 172 | 11968 | 0.398 | ng | | -0.01 |
| 27) Fluoranthene-d10 | 19.257 | 212 | 9903 | 0.331 | ng | | -0.01 |
| 31) Terphenyl-d14 | 19.856 | 244 | 6777 | 0.342 | ng | | -0.01 |
| Target Compounds | | | | | | | Qvalue |
| 2) 1,4-Dioxane | 3.297 | 88 | 2495 | 0.384 | ng | | 95 |
| 3) n-Nitrosodimethylamine | 3.608 | 42 | 2977 | 0.351 | ng | # | 86 |
| 6) bis(2-Chloroethyl)ether | 7.248 | 93 | 6444 | 0.389 | ng | | 99 |
| 9) Naphthalene | 10.680 | 128 | 17368 | 0.385 | ng | | 99 |
| 10) Hexachlorobutadiene | 10.979 | 225 | 3074 | 0.377 | ng | # | 100 |
| 12) 2-Methylnaphthalene | 12.298 | 142 | 10342 | 0.371 | ng | | 100 |
| 16) Acenaphthylene | 14.195 | 152 | 12222 | 0.371 | ng | | 99 |
| 17) Acenaphthene | 14.548 | 154 | 8331 | 0.374 | ng | | 97 |
| 18) Fluorene | 15.522 | 166 | 9643 | 0.357 | ng | | 99 |
| 20) 4,6-Dinitro-2-methylph... | 15.597 | 198 | 300 | 0.272 | ng | # | 66 |
| 21) 4-Bromophenyl-phenylether | 16.429 | 248 | 3001 | 0.386 | ng | | 97 |
| 22) Hexachlorobenzene | 16.540 | 284 | 3776 | 0.423 | ng | | 99 |
| 23) Atrazine | 16.689 | 200 | 1825 | 0.369 | ng | | 96 |
| 24) Pentachlorophenol | 16.875 | 266 | 1159 | 0.447 | ng | | 97 |
| 25) Phenanthrene | 17.273 | 178 | 14378 | 0.384 | ng | | 99 |
| 26) Anthracene | 17.360 | 178 | 12209 | 0.368 | ng | | 100 |
| 28) Fluoranthene | 19.290 | 202 | 14335 | 0.349 | ng | | 100 |
| 30) Pyrene | 19.647 | 202 | 14225 | 0.372 | ng | | 100 |
| 32) Benzo(a)anthracene | 21.393 | 228 | 13107 | 0.384 | ng | | 100 |
| 33) Chrysene | 21.438 | 228 | 14113 | 0.386 | ng | | 99 |
| 34) Bis(2-ethylhexyl)phtha... | 21.331 | 149 | 4249 | 0.420 | ng | # | 99 |
| 36) Indeno(1,2,3-cd)pyrene | 26.118 | 276 | 18036 | 0.426 | ng | | 100 |
| 37) Benzo(b)fluoranthene | 23.031 | 252 | 15833 | 0.399 | ng | # | 95 |
| 38) Benzo(k)fluoranthene | 23.078 | 252 | 15748 | 0.390 | ng | # | 95 |
| 39) Benzo(a)pyrene | 23.633 | 252 | 12481 | 0.393 | ng | # | 93 |
| 40) Dibenzo(a,h)anthracene | 26.136 | 278 | 14128 | 0.418 | ng | | 97 |
| 41) Benzo(g,h,i)perylene | 26.841 | 276 | 16240 | 0.429 | ng | | 99 |

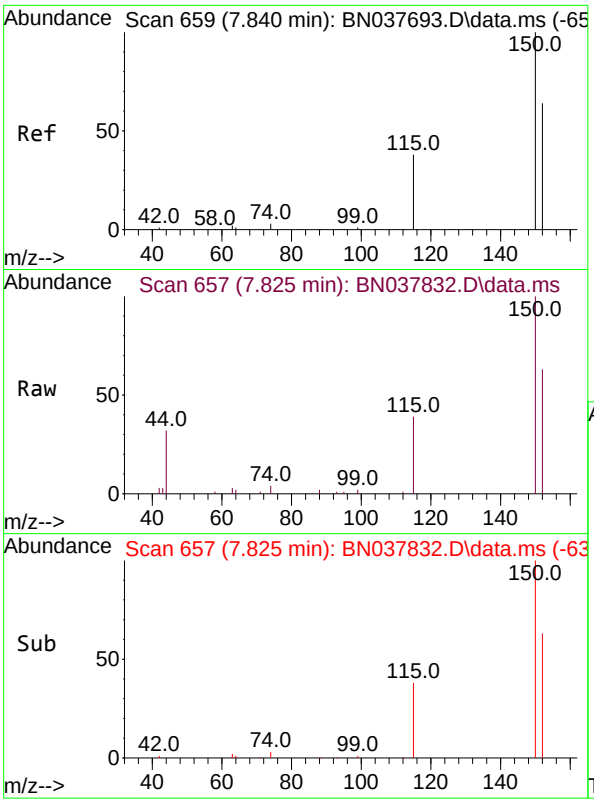
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN091925\
Data File : BN037832.D
Acq On : 20 Sep 2025 02:35
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 20 Sample Multiplier: 1

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4

Quant Time: Sep 20 04:26:33 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN091125.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Sep 11 14:20:01 2025
Response via : Initial Calibration



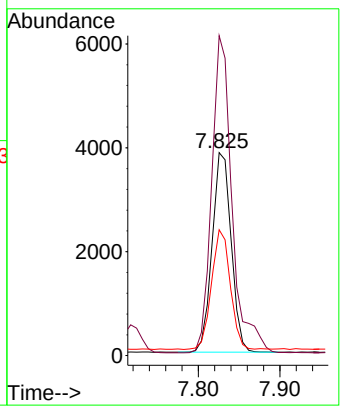


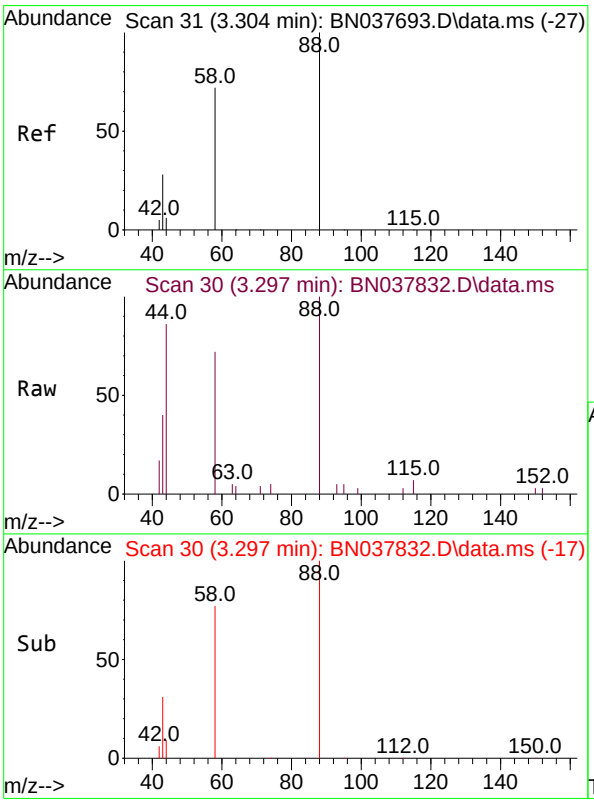

#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.825 min Scan# 6
Delta R.T. -0.015 min
Lab File: BN037832.D
Acq: 20 Sep 2025 02:35

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4

Tgt Ion:152 Resp: 6232

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 150 | 157.7 | 124.5 | 186.7 |
| 115 | 62.0 | 49.2 | 73.8 |

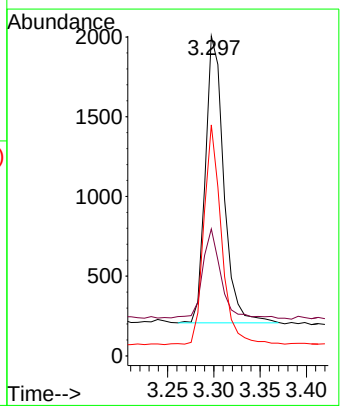


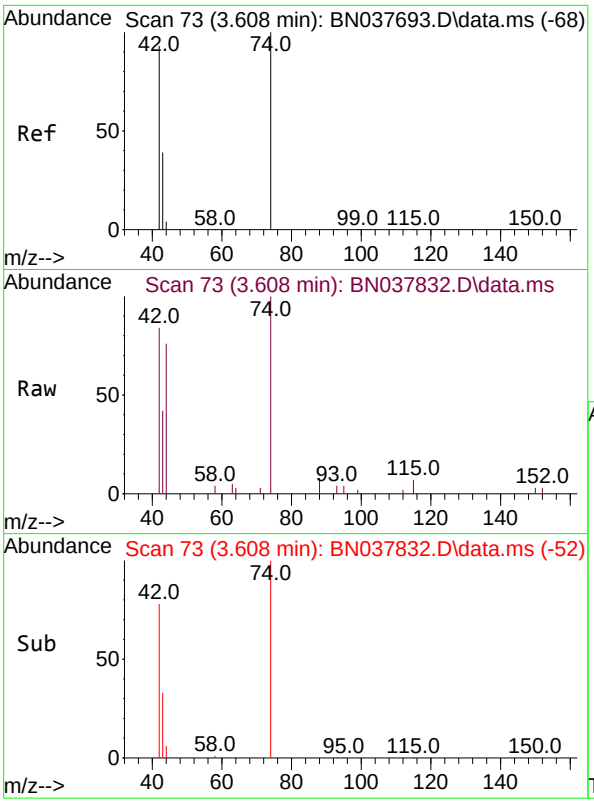




#2
1,4-Dioxane
Concen: 0.384 ng
RT: 3.297 min Scan# 30
Delta R.T. -0.007 min
Lab File: BN037832.D
Acq: 20 Sep 2025 02:35

Tgt Ion: 88 Resp: 2495

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 88 | 100 | | |
| 43 | 30.4 | 26.8 | 40.2 |
| 58 | 73.1 | 61.9 | 92.9 |



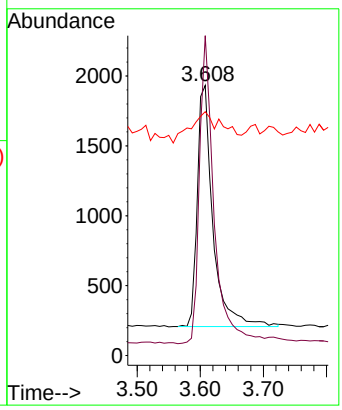


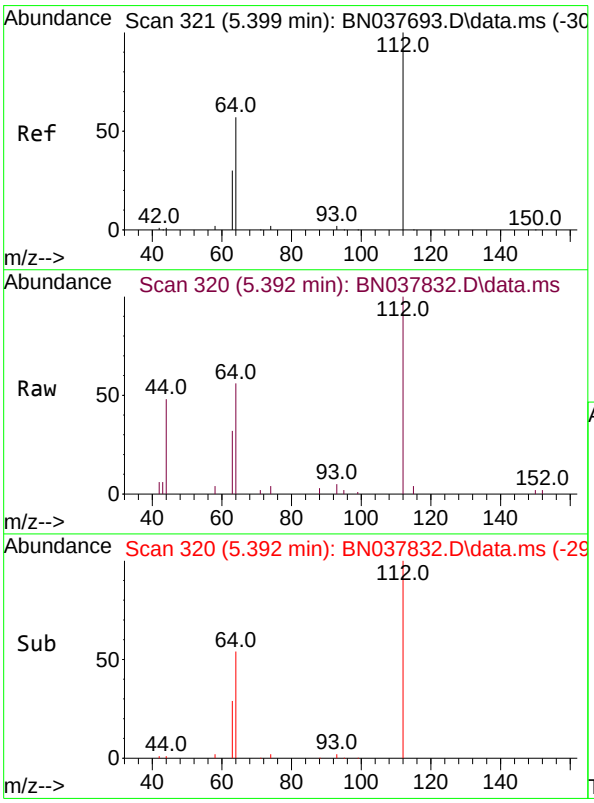

#3
n-Nitrosodimethylamine
Concen: 0.351 ng
RT: 3.608 min Scan# 7
Delta R.T. -0.000 min
Lab File: BN037832.D
Acq: 20 Sep 2025 02:35

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4

Tgt Ion: 42 Resp: 2977

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 42 | 100 | | |
| 74 | 119.4 | 86.0 | 129.0 |
| 44 | 26.8 | 8.4 | 12.6# |

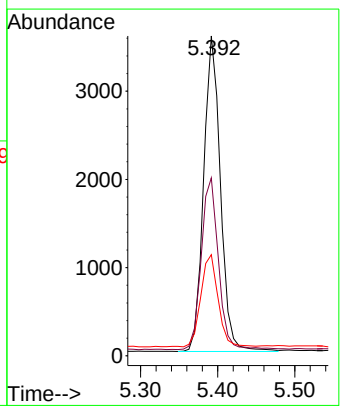


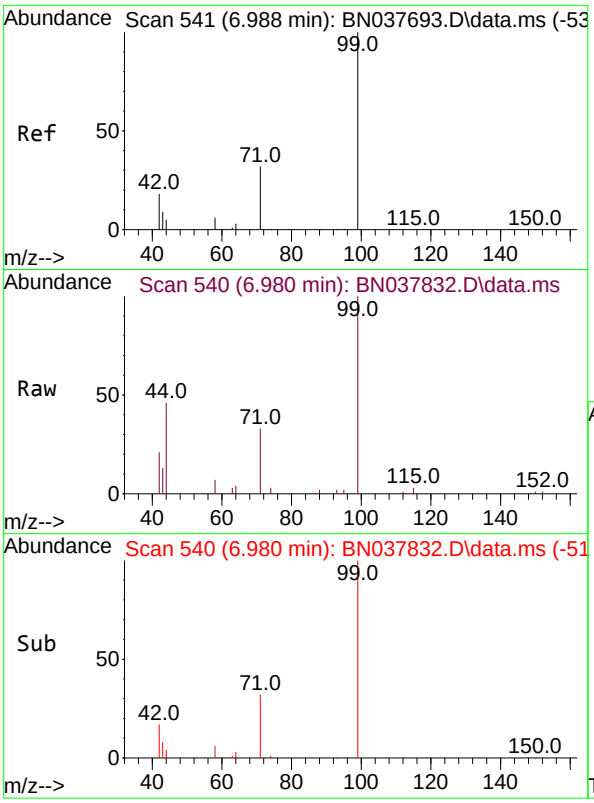




#4
2-Fluorophenol
Concen: 0.379 ng
RT: 5.392 min Scan# 320
Delta R.T. -0.007 min
Lab File: BN037832.D
Acq: 20 Sep 2025 02:35

Tgt Ion:112 Resp: 5424

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 112 | 100 | | |
| 64 | 55.6 | 44.9 | 67.3 |
| 63 | 29.8 | 24.7 | 37.1 |



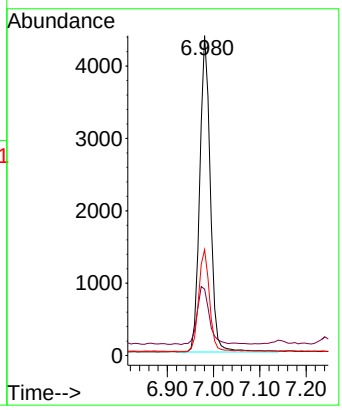


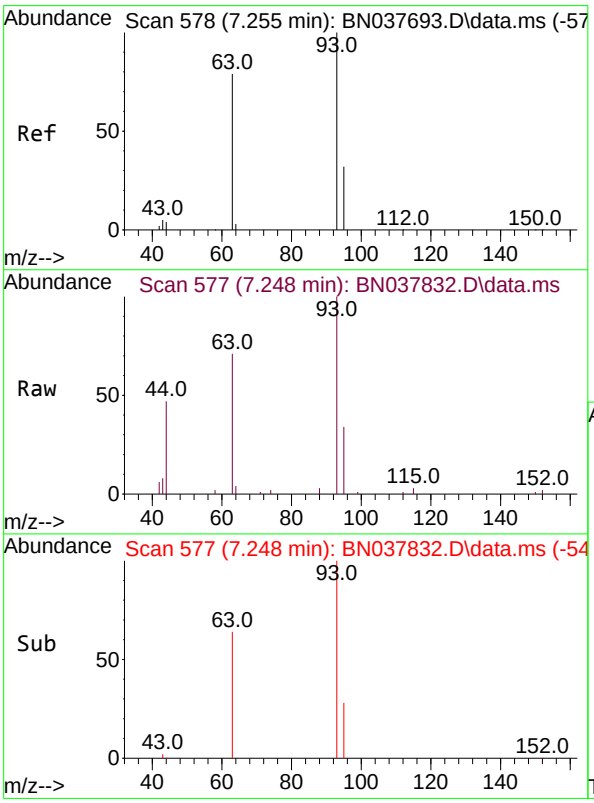

#5
Phenol-d6
Concen: 0.373 ng
RT: 6.980 min Scan# 54
Delta R.T. -0.007 min
Lab File: BN037832.D
Acq: 20 Sep 2025 02:35

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4

Tgt Ion: 99 Resp: 6919

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 99 | 100 | | |
| 42 | 21.0 | 16.6 | 24.8 |
| 71 | 33.0 | 26.7 | 40.1 |

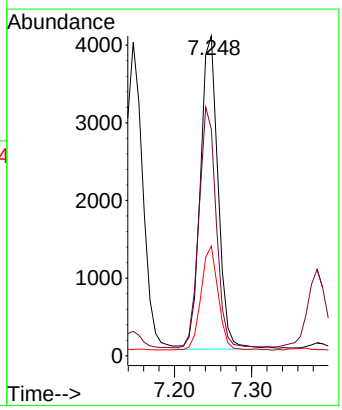


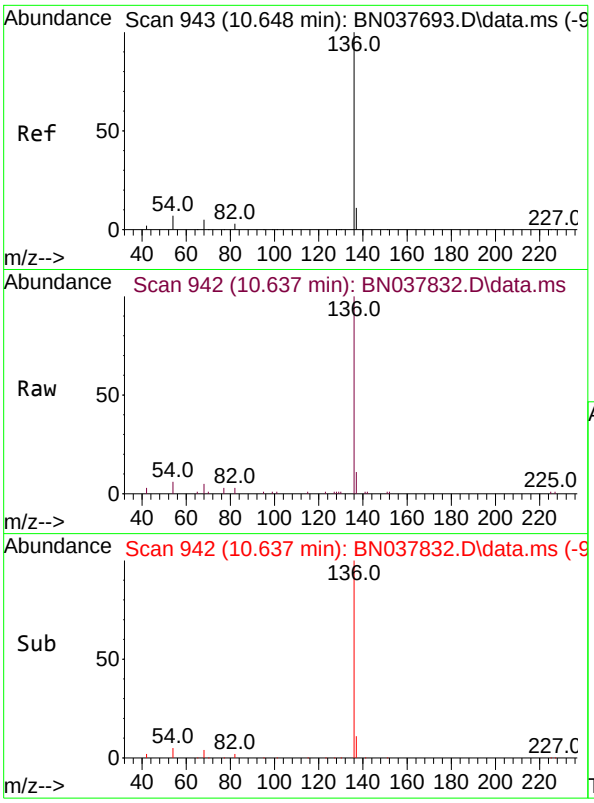




#6
bis(2-Chloroethyl)ether
Concen: 0.389 ng
RT: 7.248 min Scan# 577
Delta R.T. -0.007 min
Lab File: BN037832.D
Acq: 20 Sep 2025 02:35

Tgt Ion: 93 Resp: 6444

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 93 | 100 | | |
| 63 | 75.0 | 60.6 | 90.8 |
| 95 | 32.4 | 26.0 | 39.0 |



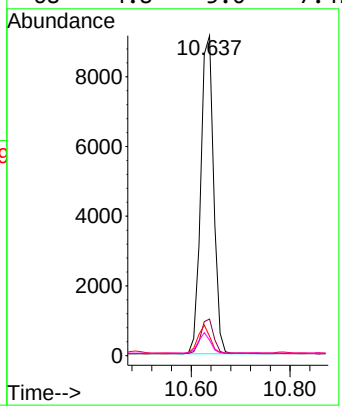


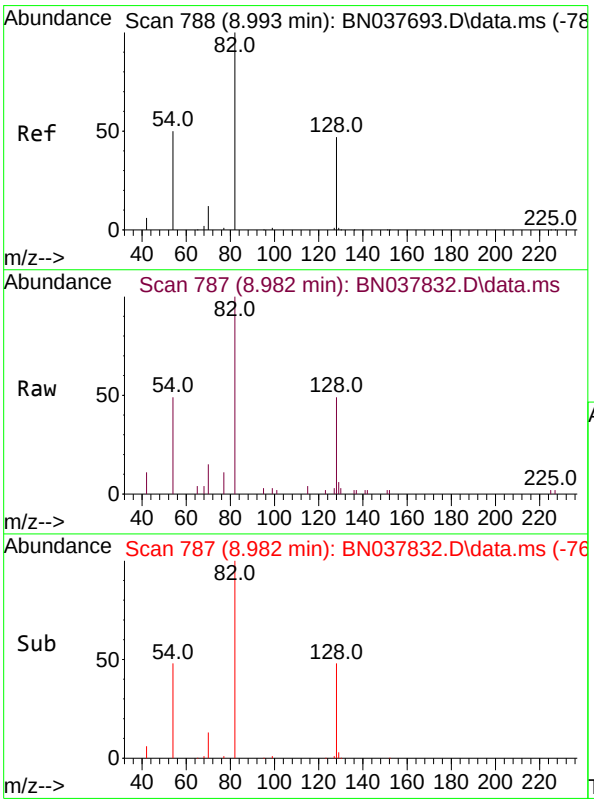

#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.637 min Scan# 94
Delta R.T. -0.011 min
Lab File: BN037832.D
Acq: 20 Sep 2025 02:35

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4

Tgt Ion:136 Resp: 16500

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 136 | 100 | | |
| 137 | 11.4 | 9.1 | 13.7 |
| 54 | 6.0 | 6.3 | 9.5# |
| 68 | 4.8 | 5.0 | 7.4# |

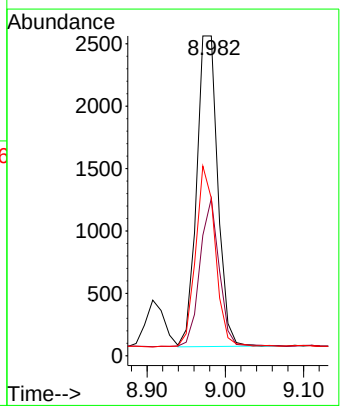


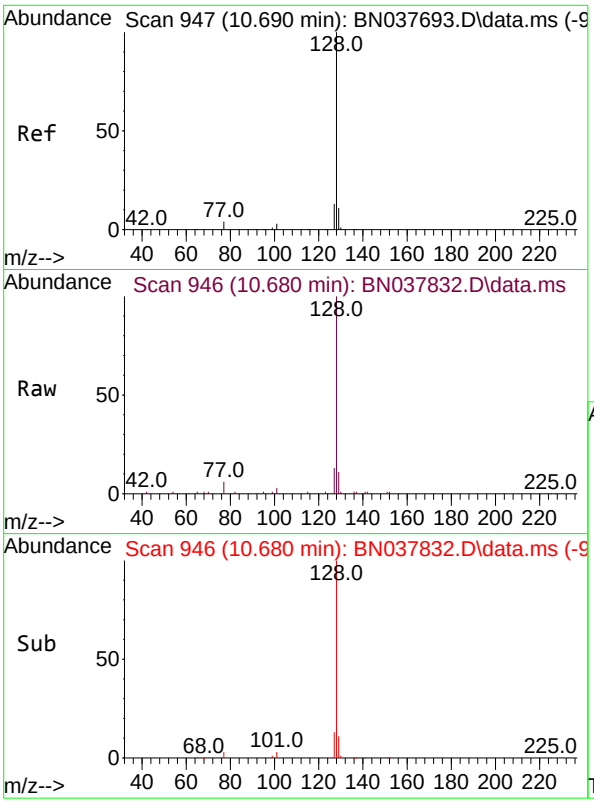




#8
Nitrobenzene-d5
Concen: 0.385 ng
RT: 8.982 min Scan# 787
Delta R.T. -0.011 min
Lab File: BN037832.D
Acq: 20 Sep 2025 02:35

Tgt Ion: 82 Resp: 4642

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 82 | 100 | | |
| 128 | 49.2 | 38.3 | 57.5 |
| 54 | 49.2 | 41.4 | 62.2 |



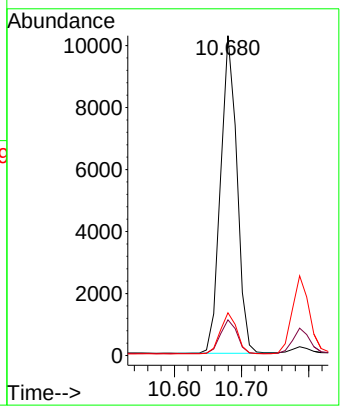


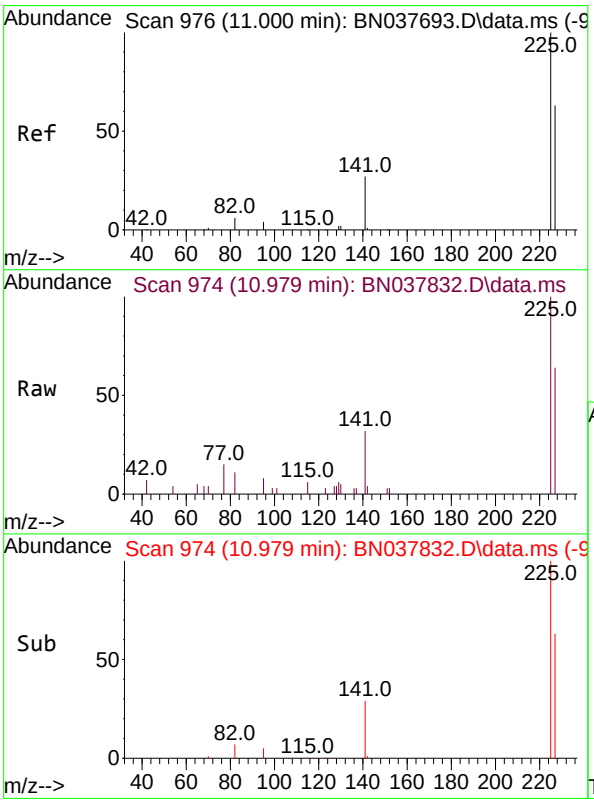

#9
Naphthalene
Concen: 0.385 ng
RT: 10.680 min Scan# 94
Delta R.T. -0.011 min
Lab File: BN037832.D
Acq: 20 Sep 2025 02:35

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4

Tgt Ion:128 Resp: 17368

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 128 | 100 | | |
| 129 | 11.2 | 9.1 | 13.7 |
| 127 | 13.4 | 10.9 | 16.3 |

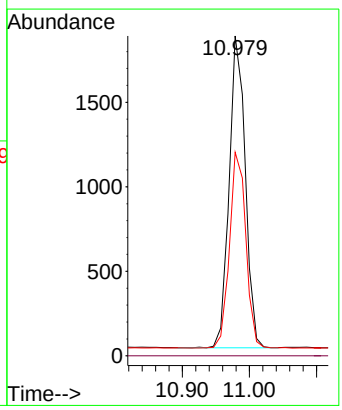


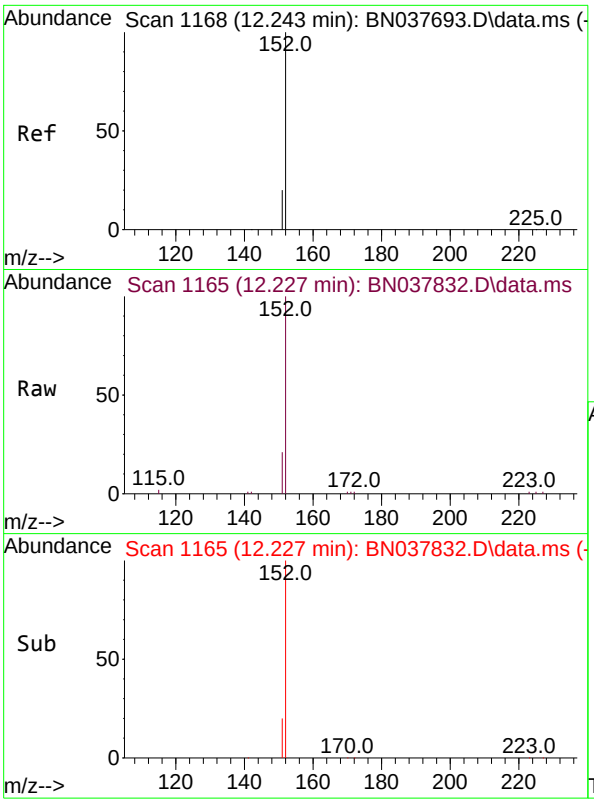




#10
Hexachlorobutadiene
Concen: 0.377 ng
RT: 10.979 min Scan# 974
Delta R.T. -0.021 min
Lab File: BN037832.D
Acq: 20 Sep 2025 02:35

Tgt Ion:225 Resp: 3074

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 225 | 100 | | |
| 223 | 0.0 | 0.0 | 0.0 |
| 227 | 63.5 | 50.9 | 76.3 |



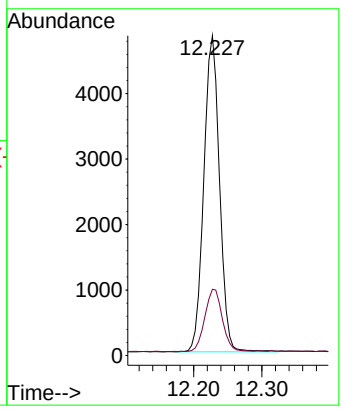


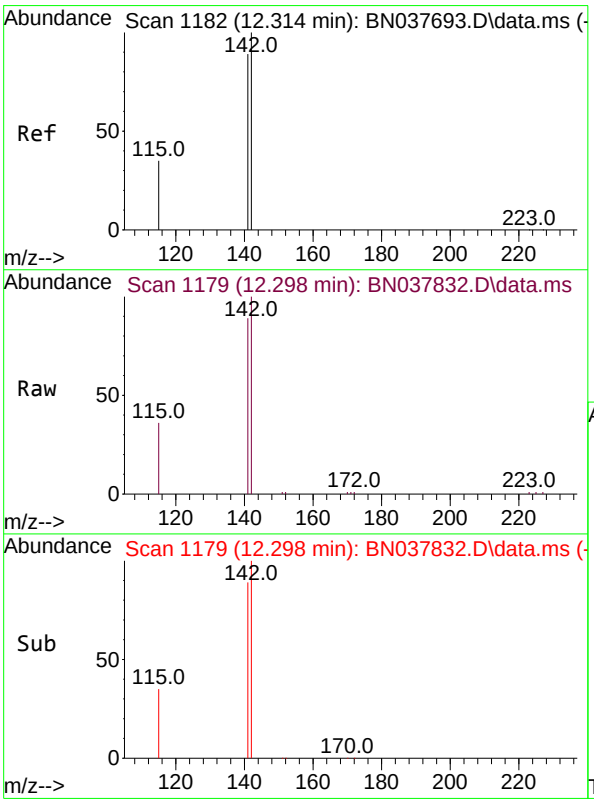

#11
2-Methylnaphthalene-d10
Concen: 0.354 ng
RT: 12.227 min Scan# 11
Delta R.T. -0.015 min
Lab File: BN037832.D
Acq: 20 Sep 2025 02:35

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4

Tgt Ion:152 Resp: 7736

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 151 | 22.1 | 17.0 | 25.6 |

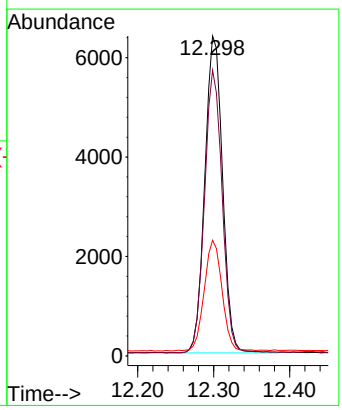


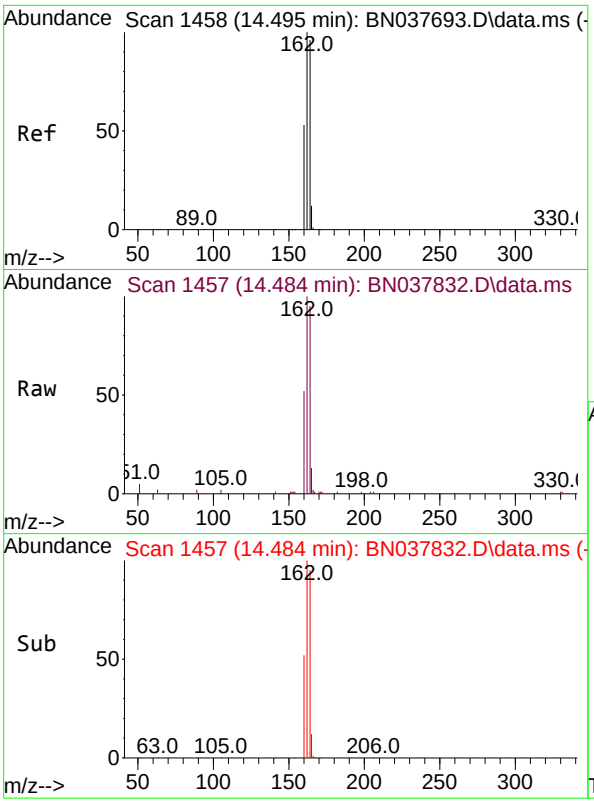




#12
2-Methylnaphthalene
Concen: 0.371 ng
RT: 12.298 min Scan# 1179
Delta R.T. -0.015 min
Lab File: BN037832.D
Acq: 20 Sep 2025 02:35

Tgt Ion:142 Resp: 10342

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 142 | 100 | | |
| 141 | 89.3 | 71.6 | 107.4 |
| 115 | 36.1 | 28.6 | 43.0 |



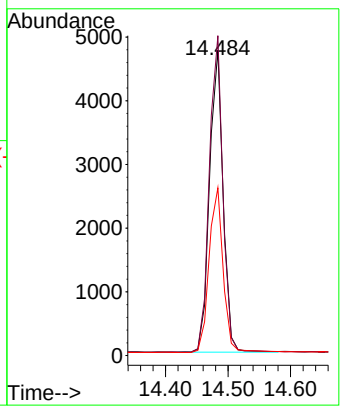


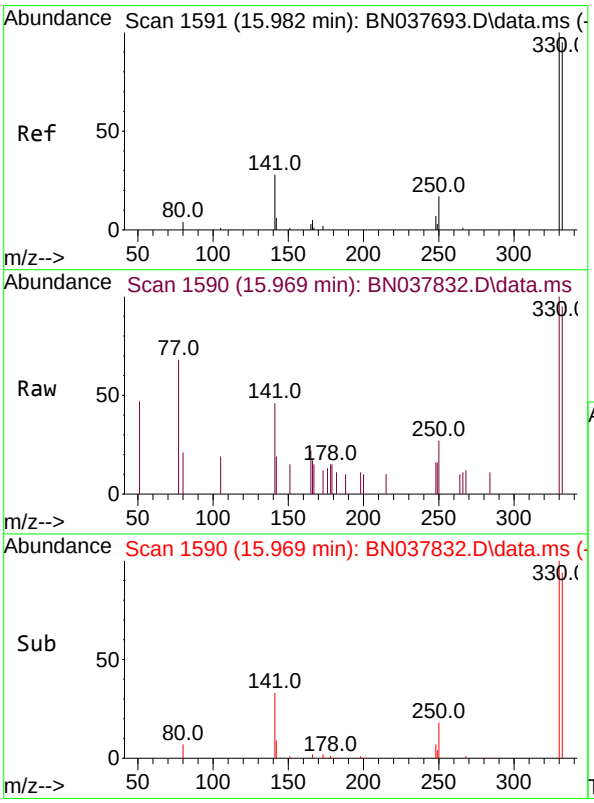

#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.484 min Scan# 14
Delta R.T. -0.011 min
Lab File: BN037832.D
Acq: 20 Sep 2025 02:35

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4

Tgt Ion:164 Resp: 7183

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 164 | 100 | | |
| 162 | 104.8 | 83.1 | 124.7 |
| 160 | 54.9 | 44.3 | 66.5 |

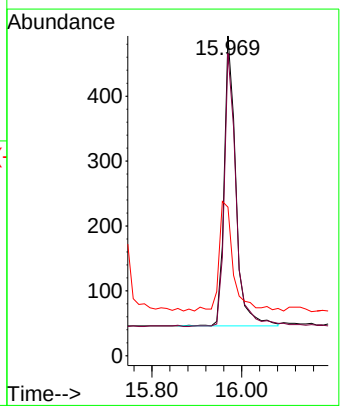


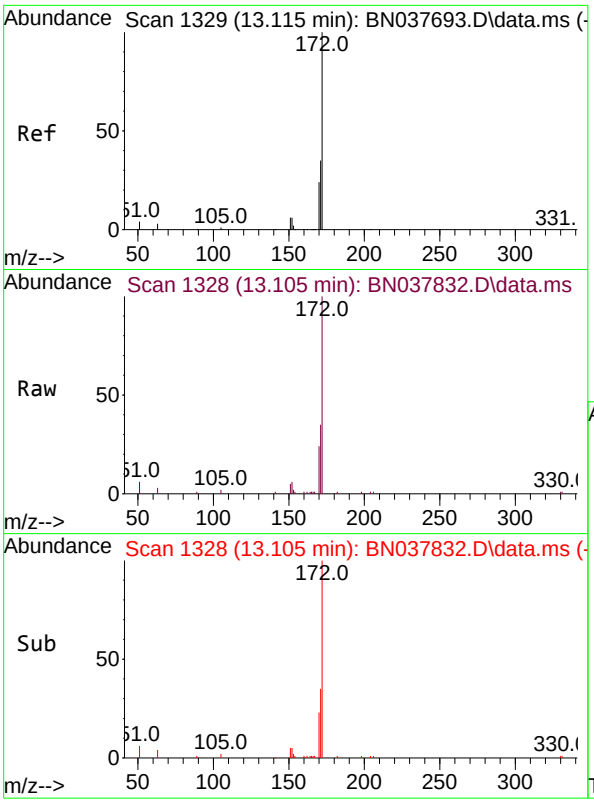




#14
2,4,6-Tribromophenol
Concen: 0.428 ng
RT: 15.969 min Scan# 1590
Delta R.T. -0.013 min
Lab File: BN037832.D
Acq: 20 Sep 2025 02:35

Tgt Ion:330 Resp: 801

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 330 | 100 | | |
| 332 | 96.4 | 75.3 | 112.9 |
| 141 | 46.8 | 35.0 | 52.4 |



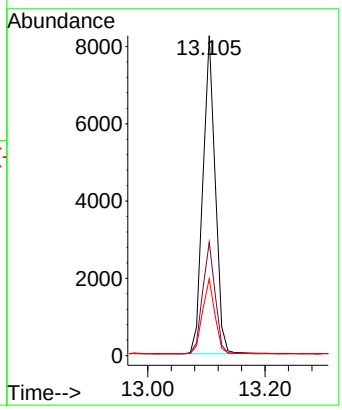


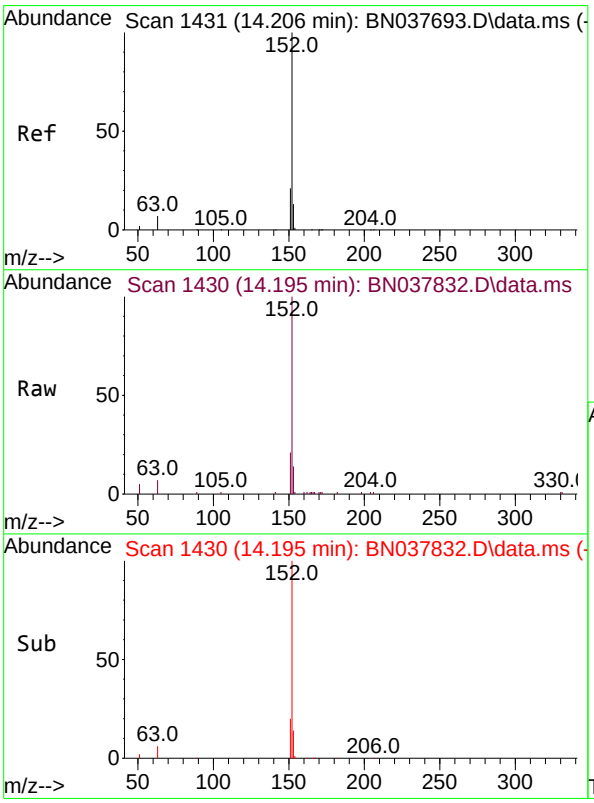

#15
2-Fluorobiphenyl
Concen: 0.398 ng
RT: 13.105 min Scan# 1
Delta R.T. -0.011 min
Lab File: BN037832.D
Acq: 20 Sep 2025 02:35

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4

Tgt Ion:172 Resp: 11968

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 172 | 100 | | |
| 171 | 35.5 | 28.6 | 43.0 |
| 170 | 24.0 | 19.8 | 29.8 |

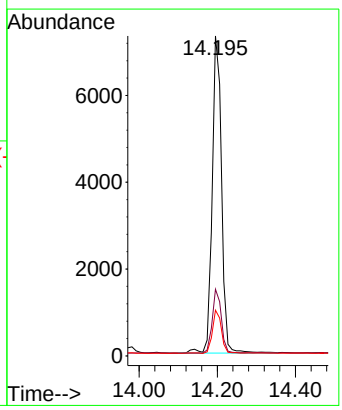


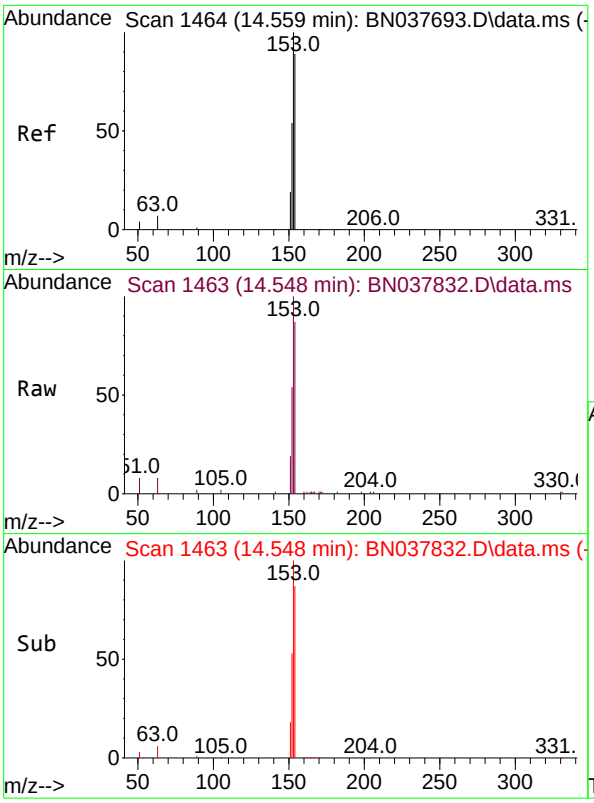




#16
Acenaphthylene
Concen: 0.371 ng
RT: 14.195 min Scan# 1430
Delta R.T. -0.011 min
Lab File: BN037832.D
Acq: 20 Sep 2025 02:35

Tgt Ion:152 Resp: 12222

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 151 | 19.5 | 16.2 | 24.2 |
| 153 | 12.6 | 10.4 | 15.6 |



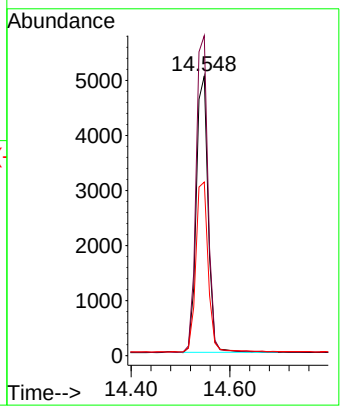


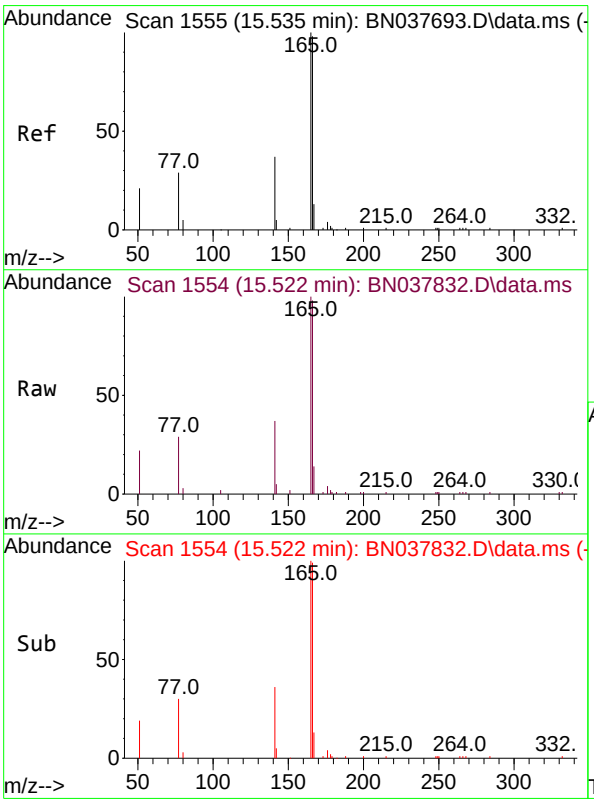

#17
Acenaphthene
Concen: 0.374 ng
RT: 14.548 min Scan# 14
Delta R.T. -0.011 min
Lab File: BN037832.D
Acq: 20 Sep 2025 02:35

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4

Tgt Ion:154 Resp: 8331

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 154 | 100 | | |
| 153 | 116.5 | 89.8 | 134.8 |
| 152 | 64.6 | 50.2 | 75.2 |

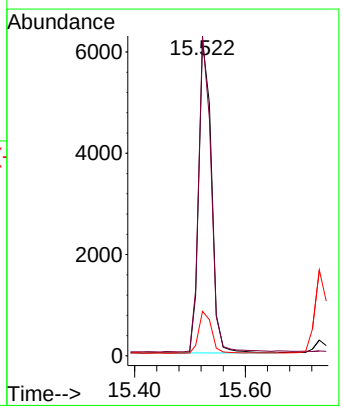


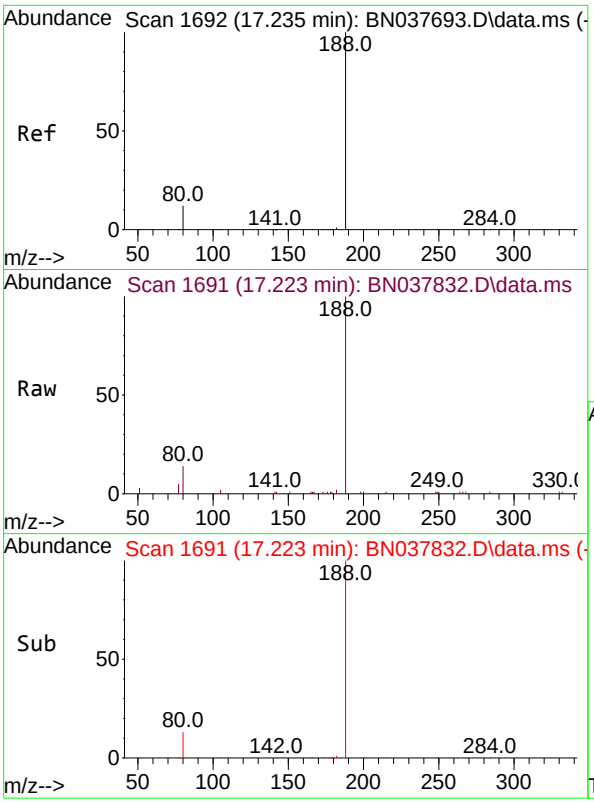




#18
Fluorene
Concen: 0.357 ng
RT: 15.522 min Scan# 1554
Delta R.T. -0.012 min
Lab File: BN037832.D
Acq: 20 Sep 2025 02:35

Tgt Ion:166 Resp: 9643

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 166 | 100 | | |
| 165 | 98.8 | 79.6 | 119.4 |
| 167 | 13.6 | 10.6 | 16.0 |



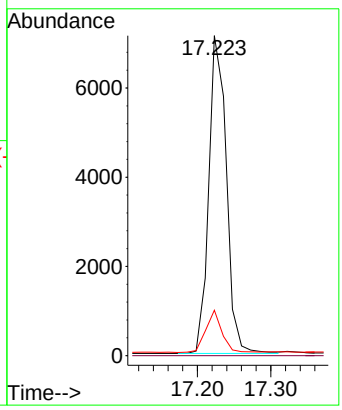


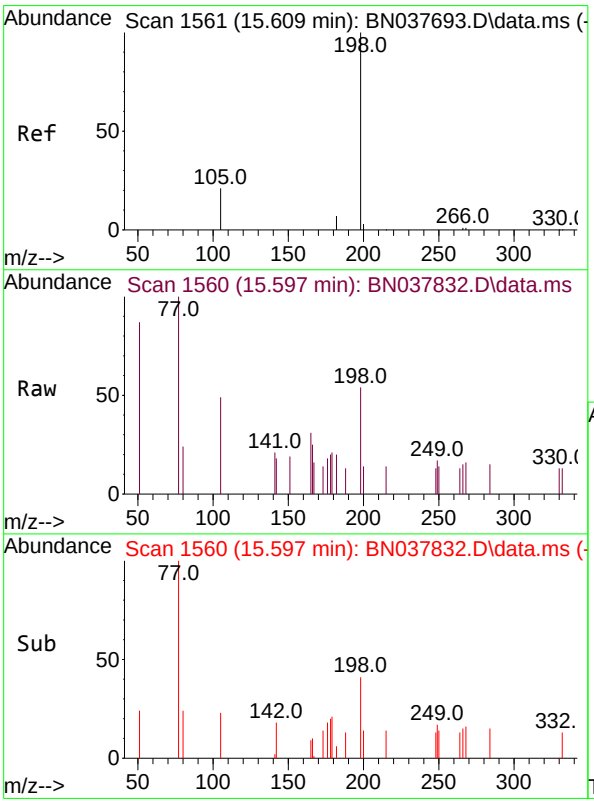

#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.223 min Scan# 1
Delta R.T. -0.013 min
Lab File: BN037832.D
Acq: 20 Sep 2025 02:35

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4

Tgt Ion:188 Resp: 11907

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 188 | 100 | | |
| 94 | 0.0 | 0.0 | 0.0 |
| 80 | 14.2 | 10.6 | 15.8 |

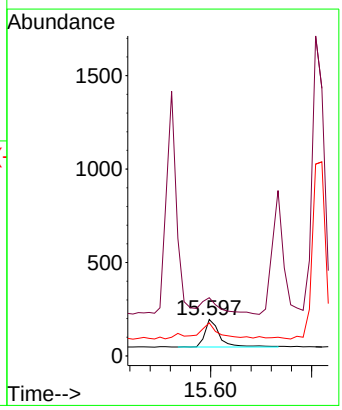


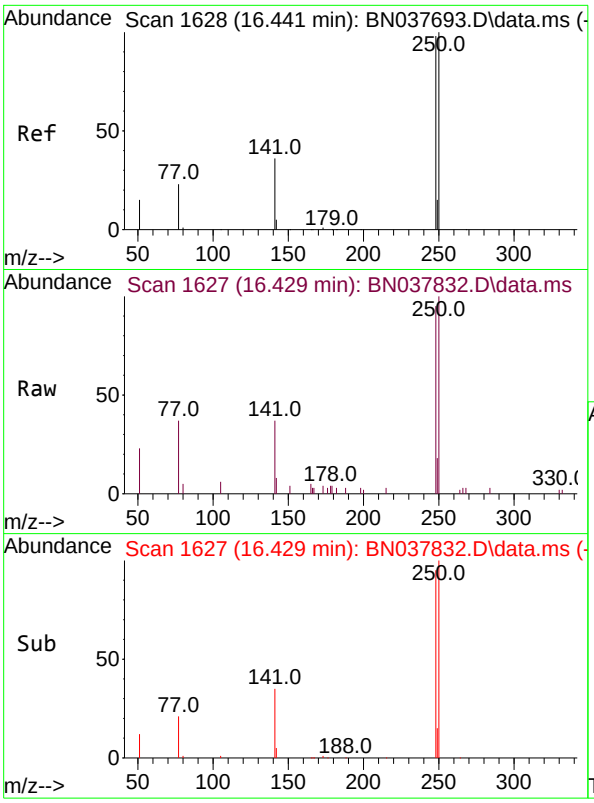




#20
4,6-Dinitro-2-methylphenol
Concen: 0.272 ng
RT: 15.597 min Scan# 1560
Delta R.T. -0.012 min
Lab File: BN037832.D
Acq: 20 Sep 2025 02:35

Tgt Ion:198 Resp: 300

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 198 | 100 | | |
| 51 | 160.0 | 95.1 | 142.7# |
| 105 | 90.8 | 53.8 | 80.6# |



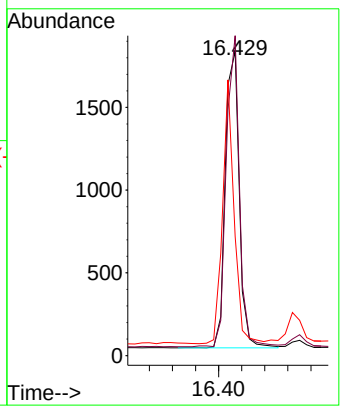


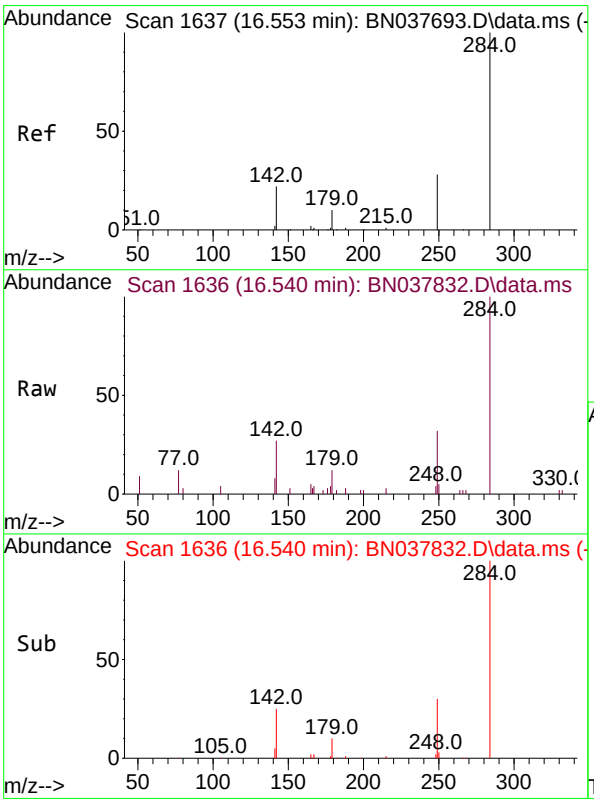

#21
4-Bromophenyl-phenylether
Concen: 0.386 ng
RT: 16.429 min Scan# 1
Delta R.T. -0.013 min
Lab File: BN037832.D
Acq: 20 Sep 2025 02:35

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4

Tgt Ion:248 Resp: 3001

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 248 | 100 | | |
| 250 | 105.2 | 81.5 | 122.3 |
| 141 | 39.2 | 30.8 | 46.2 |

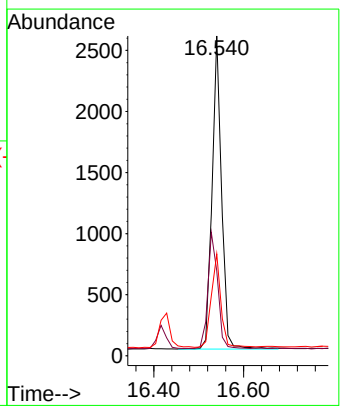


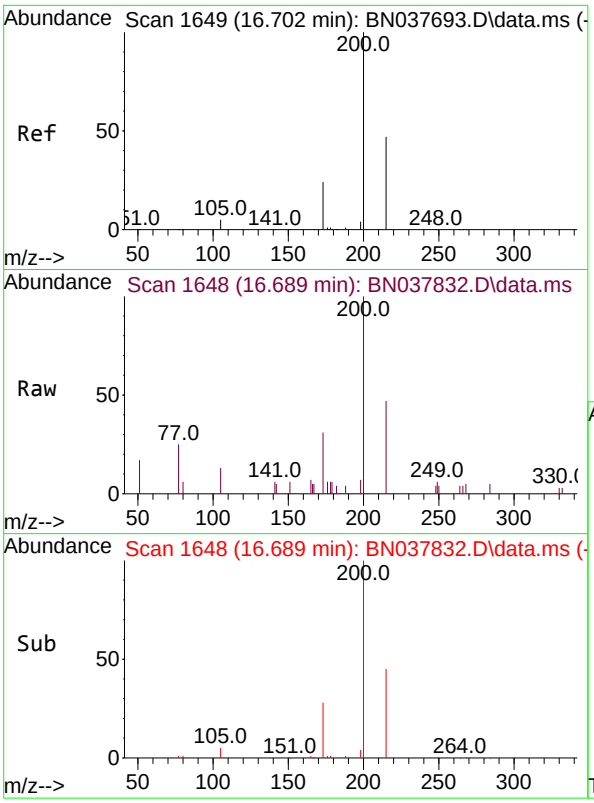




#22
Hexachlorobenzene
Concen: 0.423 ng
RT: 16.540 min Scan# 1636
Delta R.T. -0.013 min
Lab File: BN037832.D
Acq: 20 Sep 2025 02:35

Tgt Ion:284 Resp: 3776

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 284 | 100 | | |
| 142 | 38.3 | 30.9 | 46.3 |
| 249 | 30.2 | 24.8 | 37.2 |



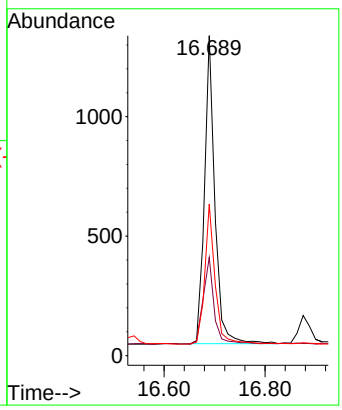


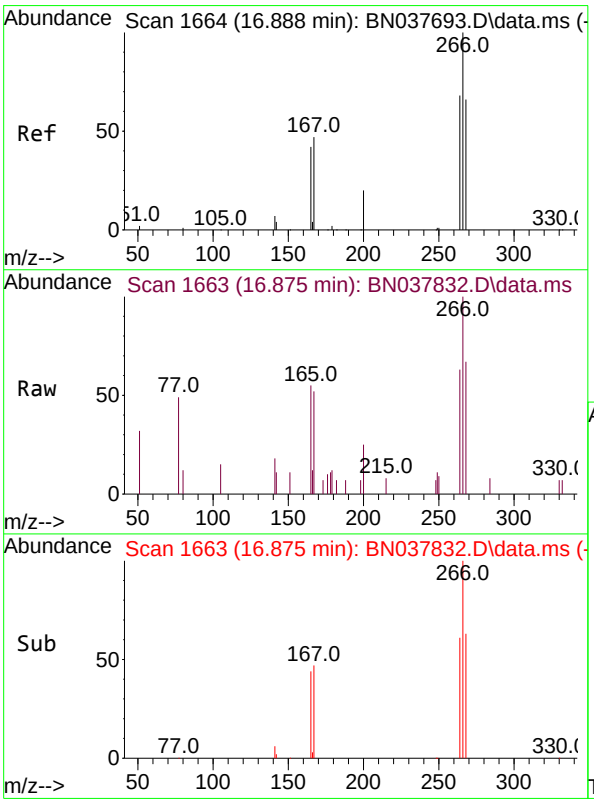

#23
Atrazine
Concen: 0.369 ng
RT: 16.689 min Scan# 1
Delta R.T. -0.012 min
Lab File: BN037832.D
Acq: 20 Sep 2025 02:35

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4

Tgt Ion:200 Resp: 1825

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 200 | 100 | | |
| 173 | 30.7 | 21.4 | 32.2 |
| 215 | 47.3 | 39.2 | 58.8 |

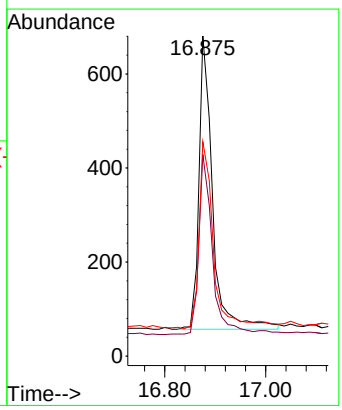


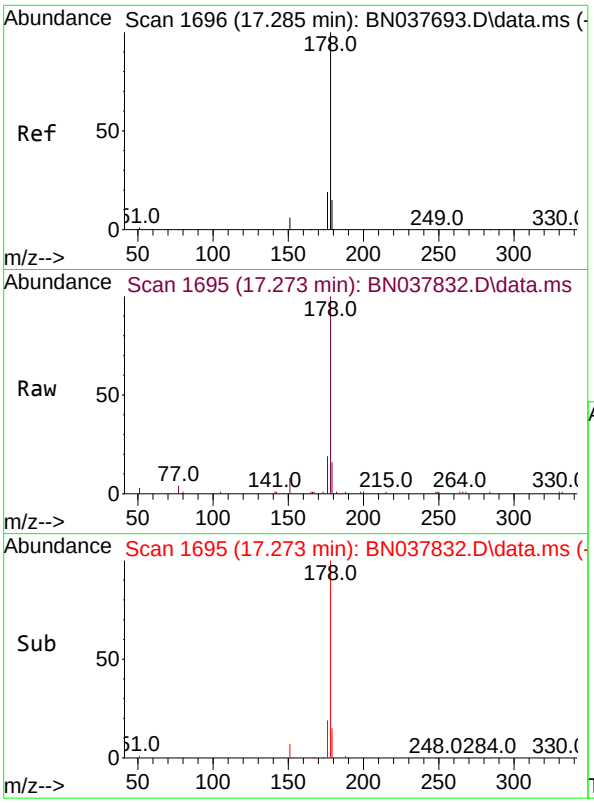




#24
Pentachlorophenol
Concen: 0.447 ng
RT: 16.875 min Scan# 1663
Delta R.T. -0.012 min
Lab File: BN037832.D
Acq: 20 Sep 2025 02:35

Tgt Ion:266 Resp: 1159

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 266 | 100 | | |
| 264 | 61.9 | 51.6 | 77.4 |
| 268 | 65.0 | 53.2 | 79.8 |



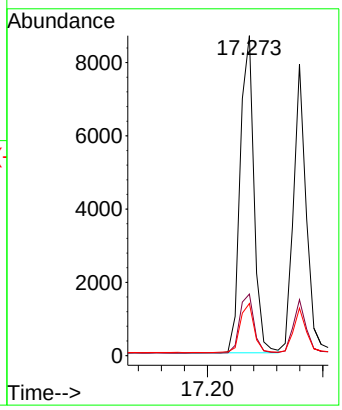


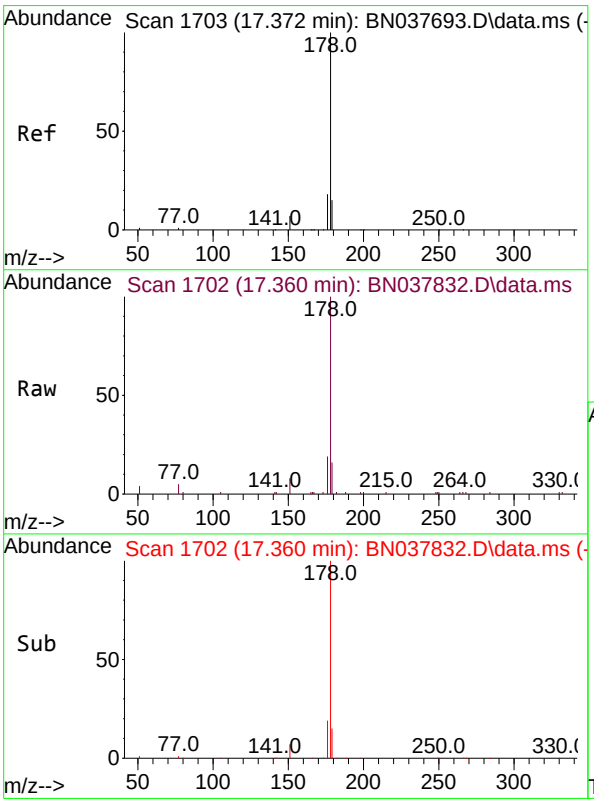

#25
Phenanthrene
Concen: 0.384 ng
RT: 17.273 min Scan# 1
Delta R.T. -0.012 min
Lab File: BN037832.D
Acq: 20 Sep 2025 02:35

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4

Tgt Ion:178 Resp: 14378

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 178 | 100 | | |
| 176 | 19.6 | 15.3 | 22.9 |
| 179 | 15.6 | 12.2 | 18.2 |

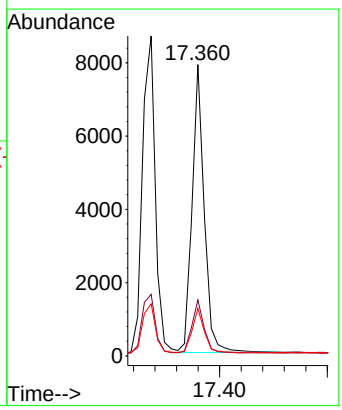


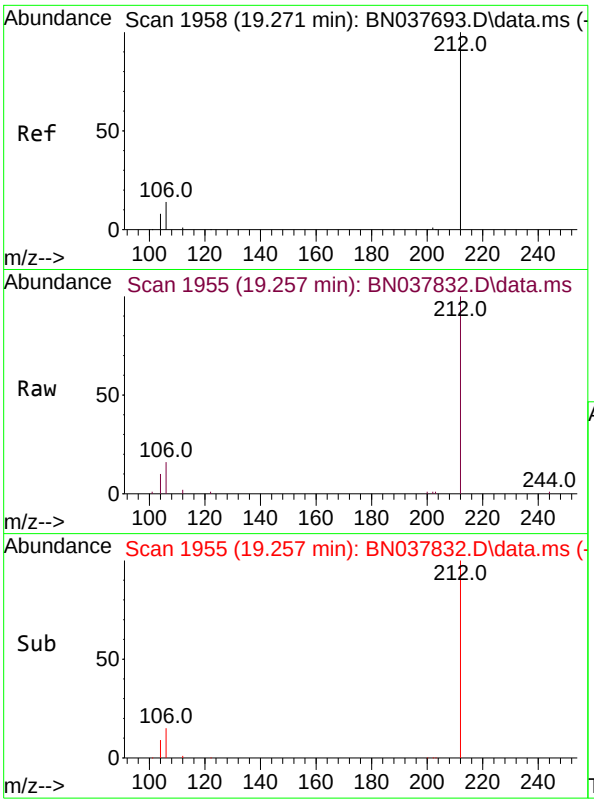




#26
Anthracene
Concen: 0.368 ng
RT: 17.360 min Scan# 1702
Delta R.T. -0.012 min
Lab File: BN037832.D
Acq: 20 Sep 2025 02:35

Tgt Ion:178 Resp: 12209

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 178 | 100 | | |
| 176 | 18.4 | 14.6 | 22.0 |
| 179 | 15.2 | 12.2 | 18.4 |



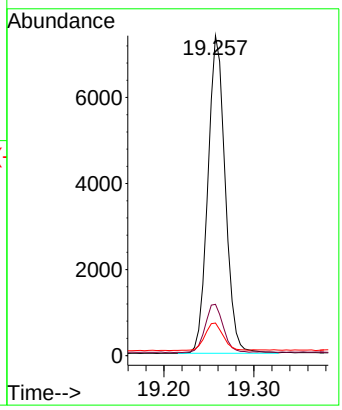


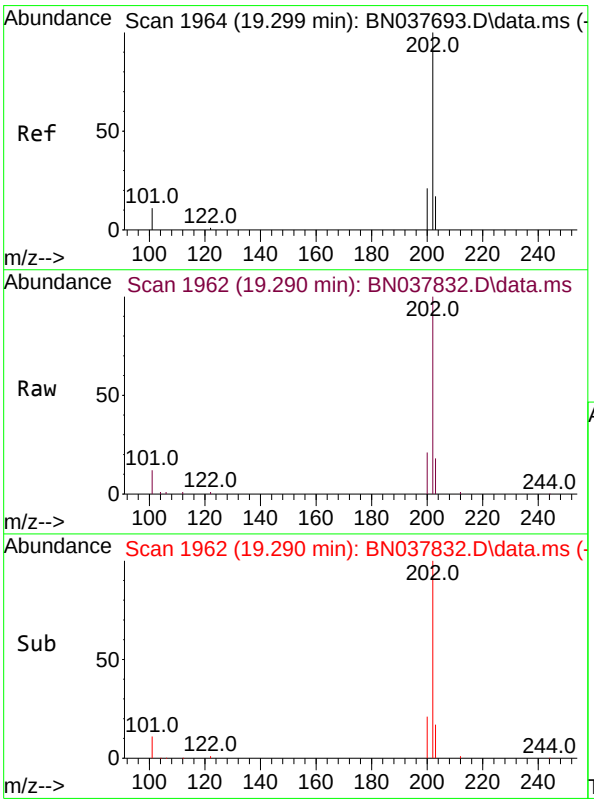

#27
Fluoranthene-d10
Concen: 0.331 ng
RT: 19.257 min Scan# 19
Delta R.T. -0.014 min
Lab File: BN037832.D
Acq: 20 Sep 2025 02:35

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4

Tgt Ion:212 Resp: 9903

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 212 | 100 | | |
| 106 | 15.7 | 12.2 | 18.2 |
| 104 | 9.1 | 6.9 | 10.3 |

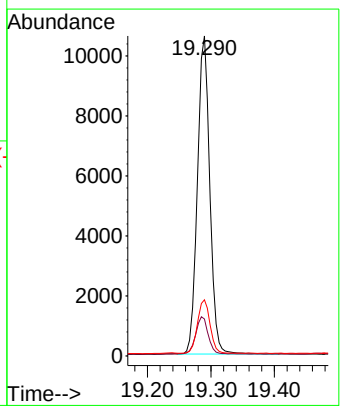


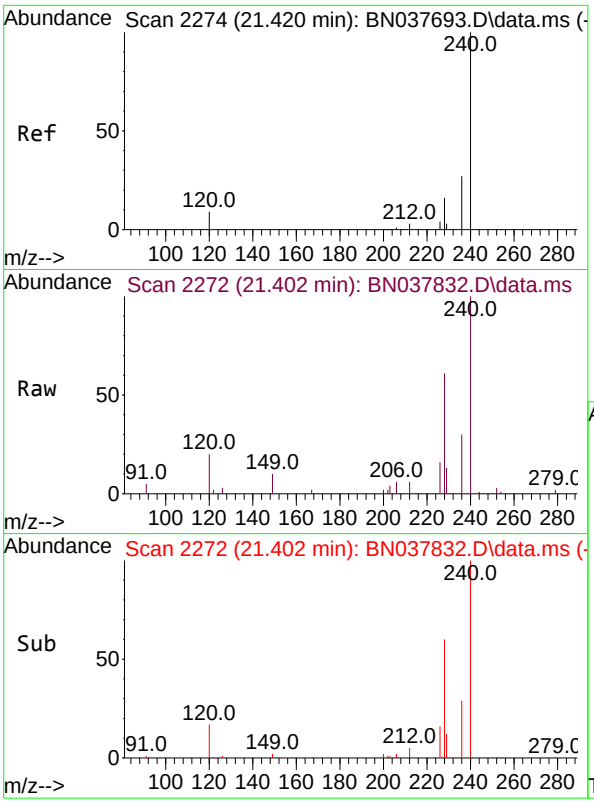




#28
Fluoranthene
Concen: 0.349 ng
RT: 19.290 min Scan# 1962
Delta R.T. -0.009 min
Lab File: BN037832.D
Acq: 20 Sep 2025 02:35

Tgt Ion:202 Resp: 14335

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 202 | 100 | | |
| 101 | 11.9 | 9.3 | 13.9 |
| 203 | 17.1 | 13.7 | 20.5 |



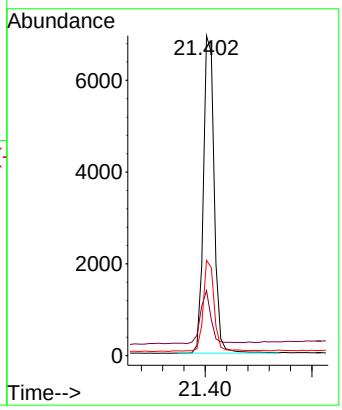


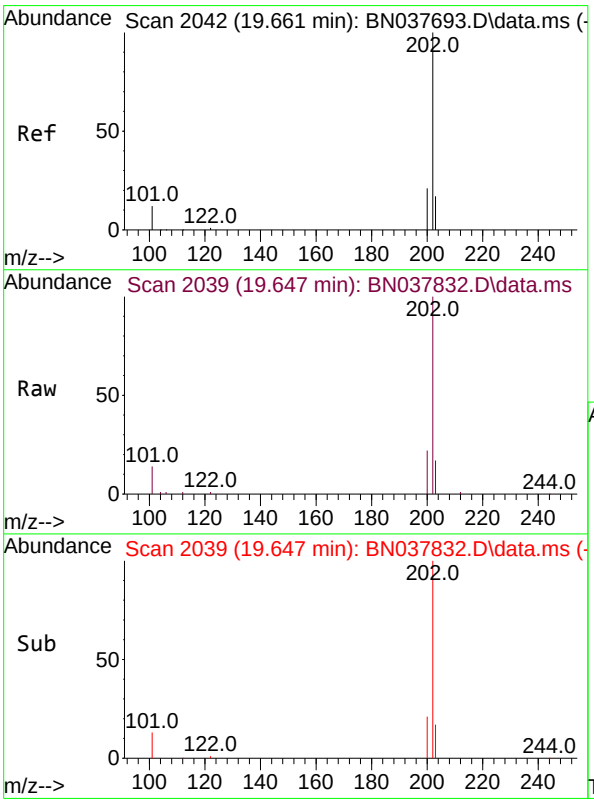

#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.402 min Scan# 2
Delta R.T. -0.018 min
Lab File: BN037832.D
Acq: 20 Sep 2025 02:35

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4

Tgt Ion:240 Resp: 9777

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 240 | 100 | | |
| 120 | 20.3 | 9.2 | 13.8# |
| 236 | 29.8 | 22.6 | 33.8 |

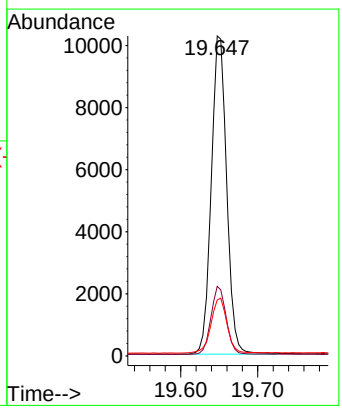


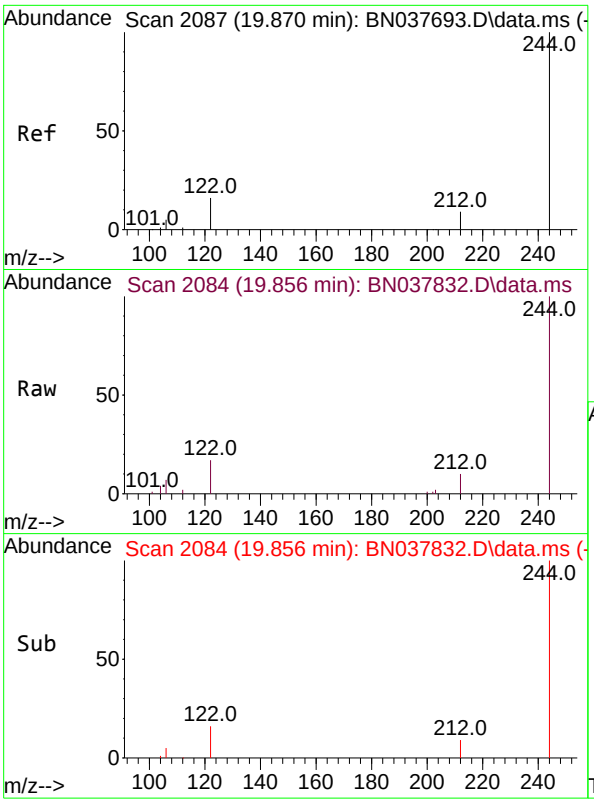




#30
Pyrene
Concen: 0.372 ng
RT: 19.647 min Scan# 2039
Delta R.T. -0.014 min
Lab File: BN037832.D
Acq: 20 Sep 2025 02:35

Tgt Ion:202 Resp: 14225

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 202 | 100 | | |
| 200 | 21.2 | 16.8 | 25.2 |
| 203 | 17.9 | 14.3 | 21.5 |



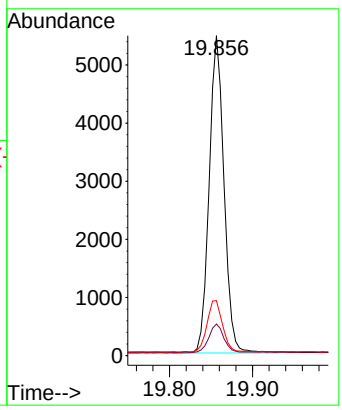


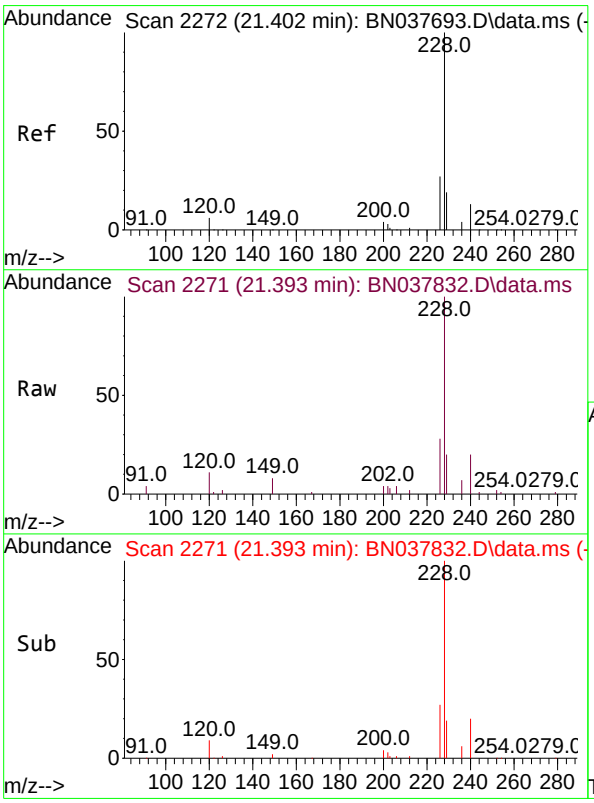

#31
Terphenyl-d14
Concen: 0.342 ng
RT: 19.856 min Scan# 2
Delta R.T. -0.014 min
Lab File: BN037832.D
Acq: 20 Sep 2025 02:35

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4

Tgt Ion:244 Resp: 6777

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 244 | 100 | | |
| 212 | 9.9 | 7.5 | 11.3 |
| 122 | 17.2 | 13.2 | 19.8 |

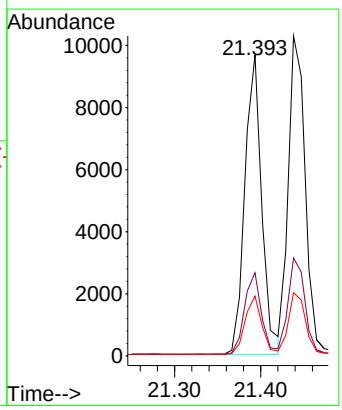


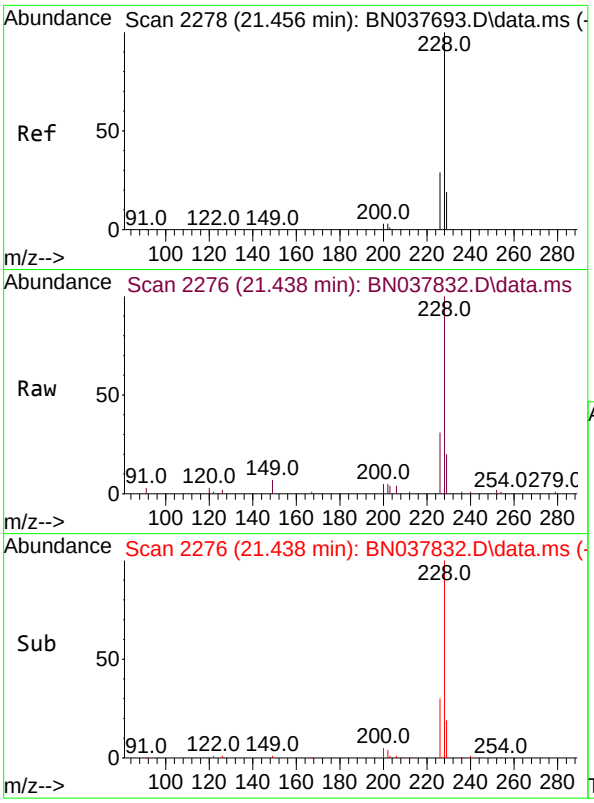




#32
Benzo(a)anthracene
Concen: 0.384 ng
RT: 21.393 min Scan# 2271
Delta R.T. -0.009 min
Lab File: BN037832.D
Acq: 20 Sep 2025 02:35

Tgt Ion:228 Resp: 13107

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 228 | 100 | | |
| 226 | 27.6 | 22.2 | 33.2 |
| 229 | 19.9 | 15.8 | 23.6 |



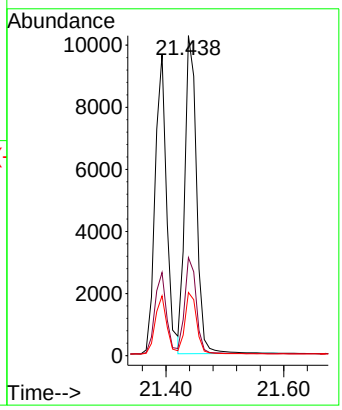


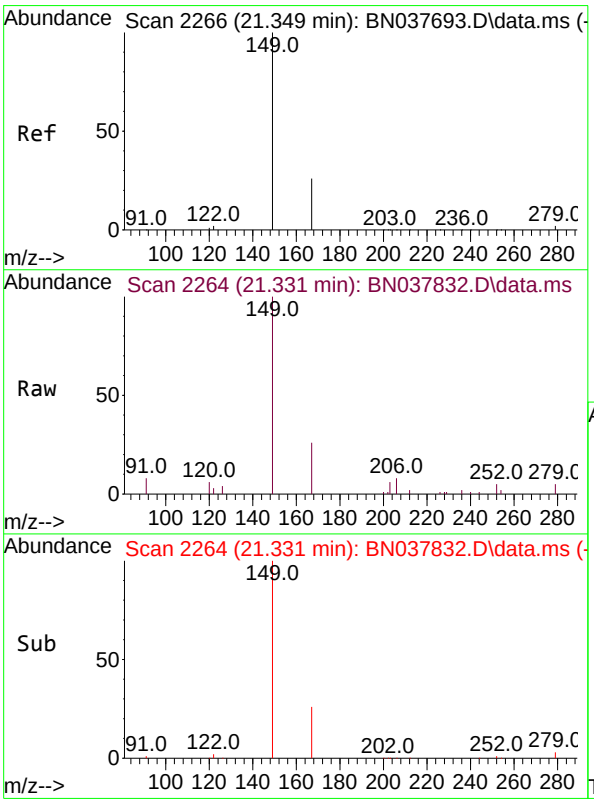

#33
Chrysene
Concen: 0.386 ng
RT: 21.438 min Scan# 2
Delta R.T. -0.018 min
Lab File: BN037832.D
Acq: 20 Sep 2025 02:35

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4

Tgt Ion:228 Resp: 14113

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 228 | 100 | | |
| 226 | 30.6 | 23.5 | 35.3 |
| 229 | 19.7 | 15.9 | 23.9 |

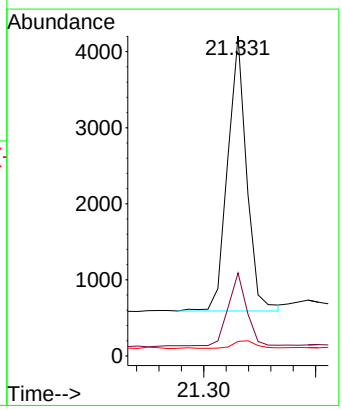


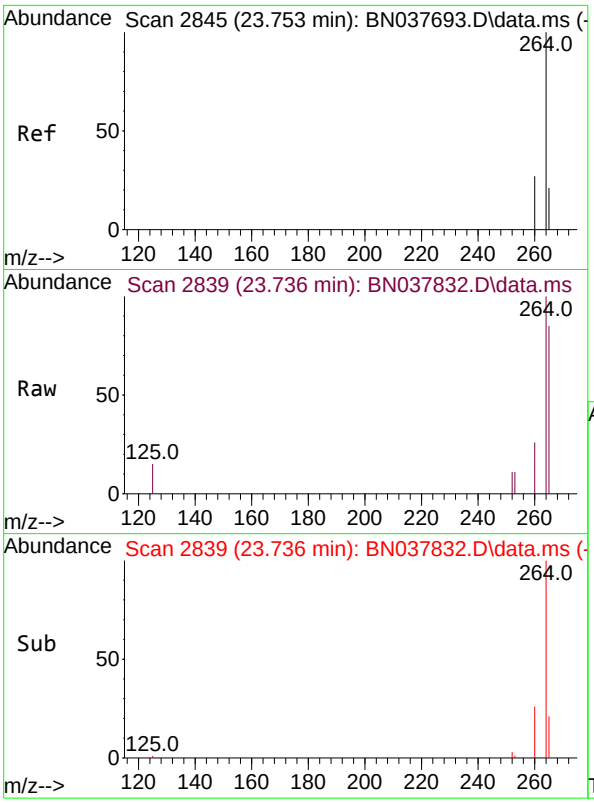




#34
Bis(2-ethylhexyl)phthalate
Concen: 0.420 ng
RT: 21.331 min Scan# 2264
Delta R.T. -0.018 min
Lab File: BN037832.D
Acq: 20 Sep 2025 02:35

Tgt Ion:149 Resp: 4249

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 149 | 100 | | |
| 167 | 25.7 | 20.8 | 31.2 |
| 279 | 3.2 | 3.3 | 4.9# |



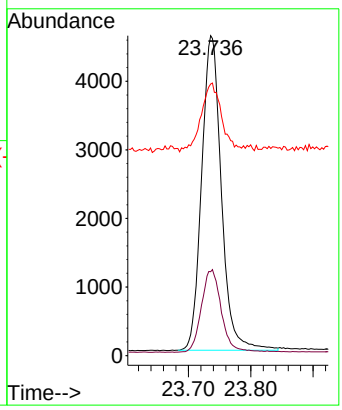


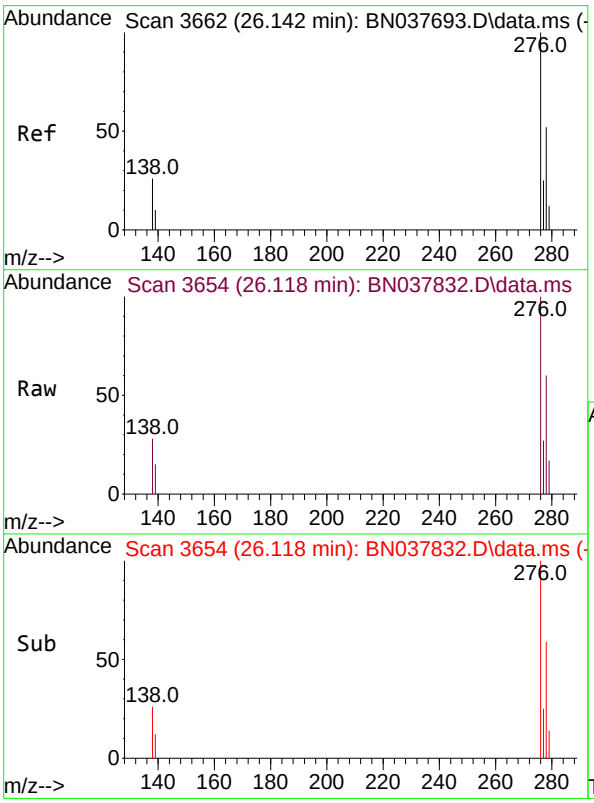

#35
Perylene-d12
Concen: 0.400 ng
RT: 23.736 min Scan# 28
Delta R.T. -0.018 min
Lab File: BN037832.D
Acq: 20 Sep 2025 02:35

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4

Tgt Ion:264 Resp: 10066

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 264 | 100 | | |
| 260 | 26.2 | 21.8 | 32.8 |
| 265 | 84.9 | 39.4 | 59.2# |

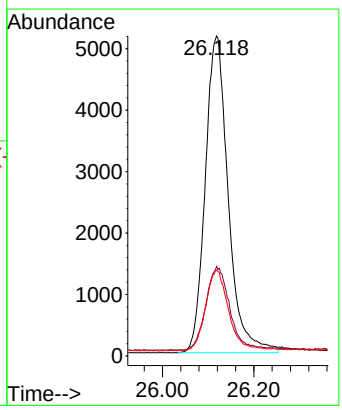


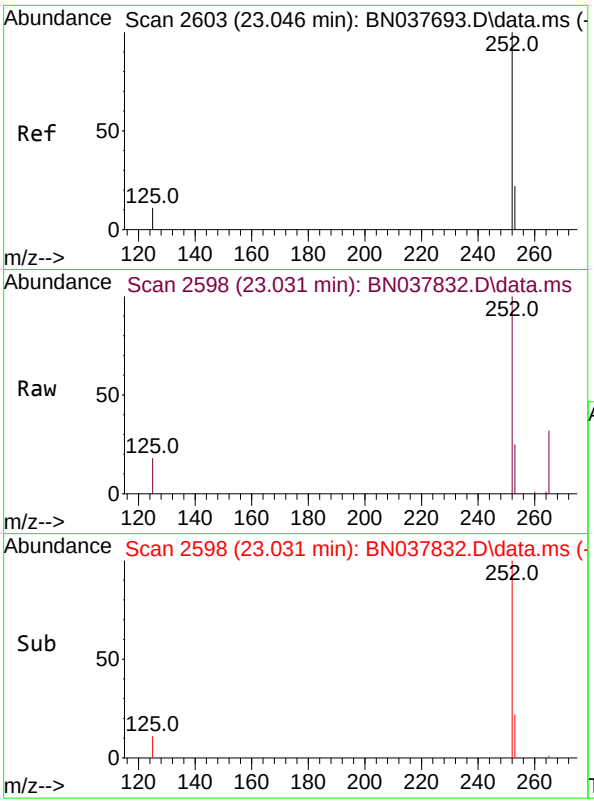




#36
Indeno(1,2,3-cd)pyrene
Concen: 0.426 ng
RT: 26.118 min Scan# 3654
Delta R.T. -0.023 min
Lab File: BN037832.D
Acq: 20 Sep 2025 02:35

Tgt Ion:276 Resp: 18036

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 276 | 100 | | |
| 138 | 27.1 | 21.9 | 32.9 |
| 277 | 25.3 | 20.1 | 30.1 |



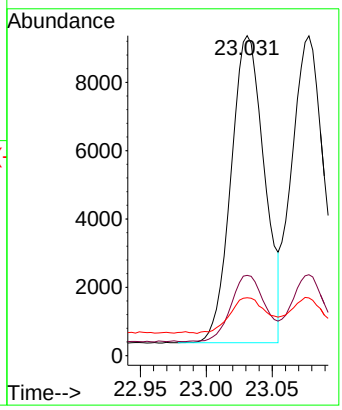


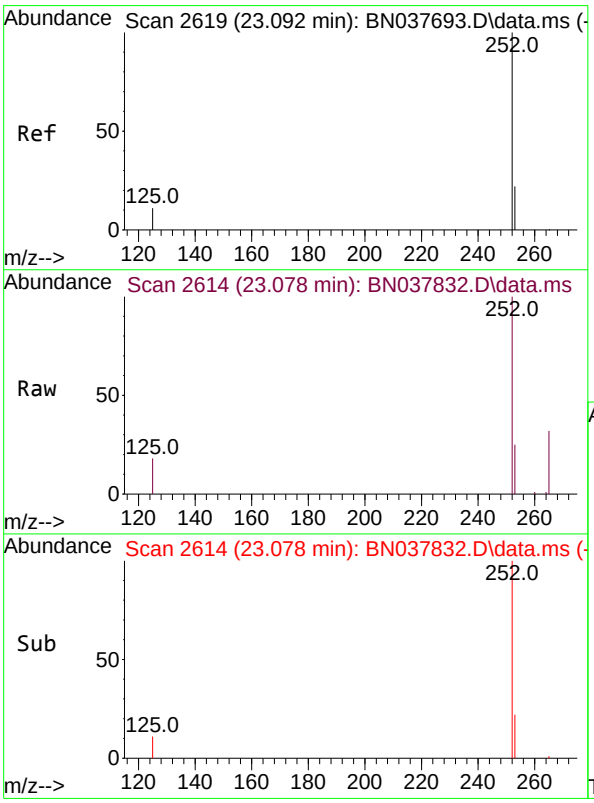

#37
Benzo(b)fluoranthene
Concen: 0.399 ng
RT: 23.031 min Scan# 2
Delta R.T. -0.015 min
Lab File: BN037832.D
Acq: 20 Sep 2025 02:35

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4

Tgt Ion:252 Resp: 15833

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 25.1 | 19.4 | 29.2 |
| 125 | 18.1 | 11.2 | 16.8# |

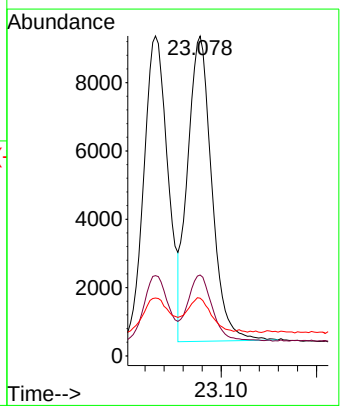


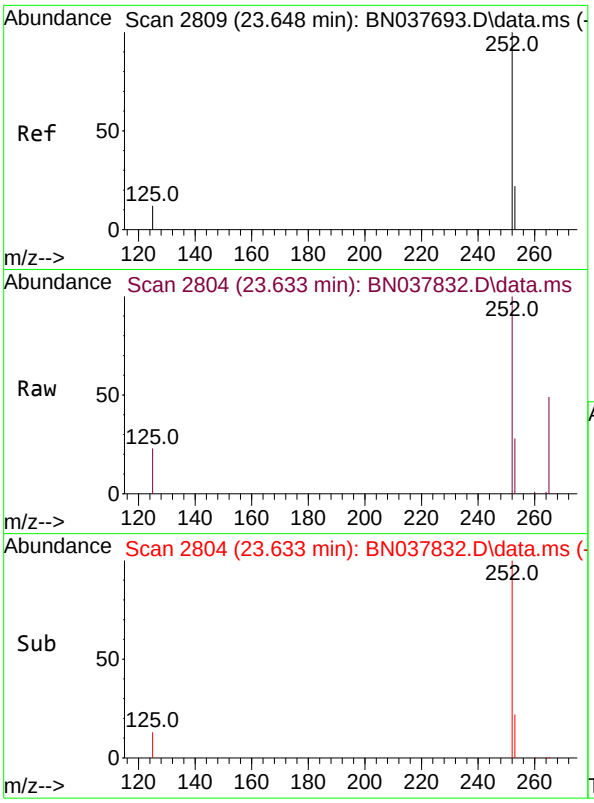




#38
Benzo(k)fluoranthene
Concen: 0.390 ng
RT: 23.078 min Scan# 2614
Delta R.T. -0.015 min
Lab File: BN037832.D
Acq: 20 Sep 2025 02:35

Tgt Ion:252 Resp: 15748

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 25.3 | 19.4 | 29.0 |
| 125 | 18.0 | 11.6 | 17.4# |



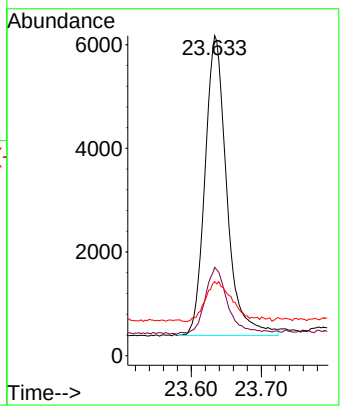


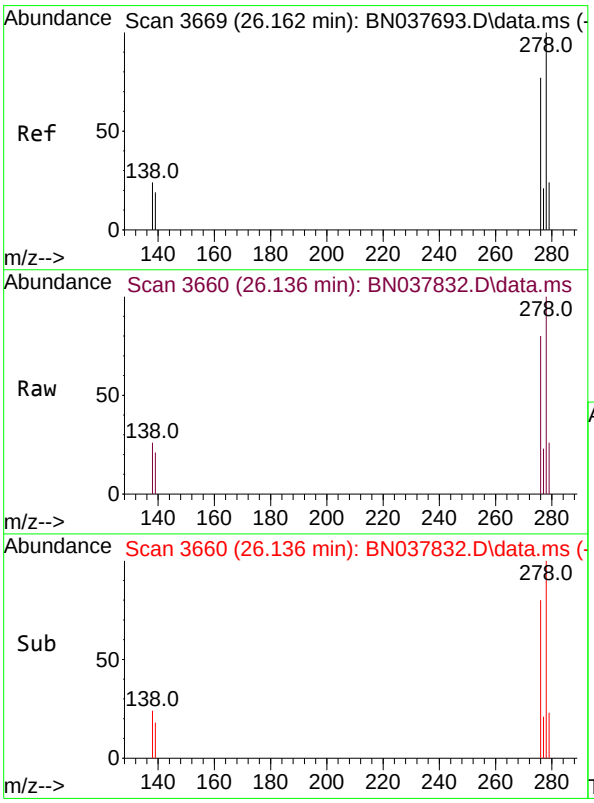

#39
Benzo(a)pyrene
Concen: 0.393 ng
RT: 23.633 min Scan# 28
Delta R.T. -0.015 min
Lab File: BN037832.D
Acq: 20 Sep 2025 02:35

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4

Tgt Ion:252 Resp: 12481

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 27.6 | 20.8 | 31.2 |
| 125 | 23.1 | 13.9 | 20.9# |

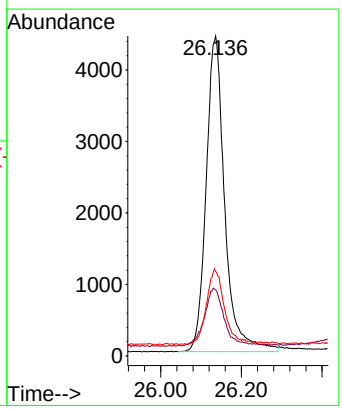


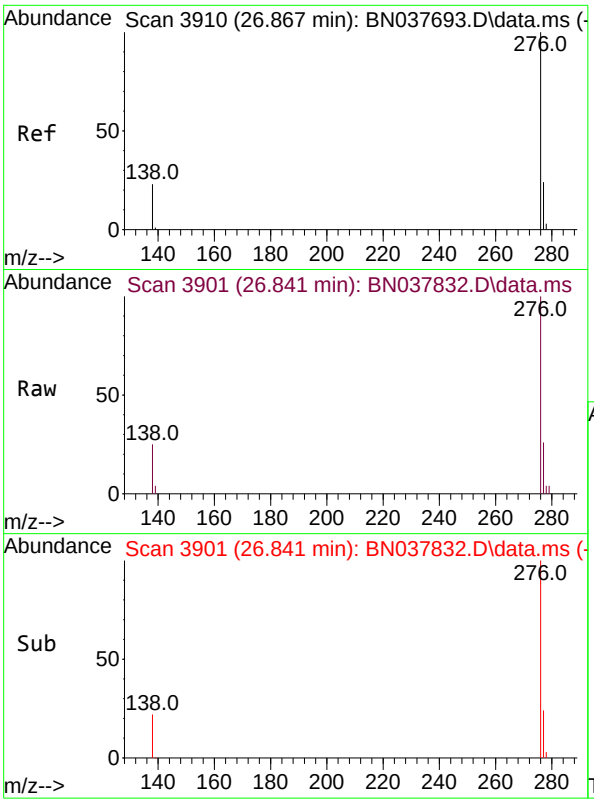




#40
Dibenzo(a,h)anthracene
Concen: 0.418 ng
RT: 26.136 min Scan# 3660
Delta R.T. -0.026 min
Lab File: BN037832.D
Acq: 20 Sep 2025 02:35

Tgt Ion:278 Resp: 14128

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 278 | 100 | | |
| 139 | 20.6 | 17.8 | 26.6 |
| 279 | 26.4 | 22.0 | 33.0 |



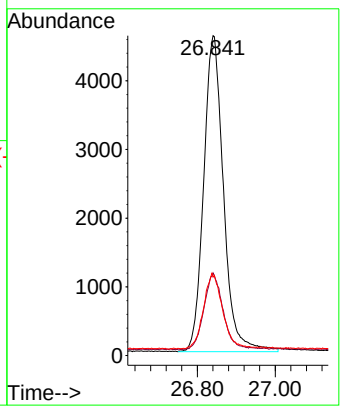



#41
Benzo(g,h,i)perylene
Concen: 0.429 ng
RT: 26.841 min Scan# 3
Delta R.T. -0.026 min
Lab File: BN037832.D
Acq: 20 Sep 2025 02:35

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4

Tgt Ion:276 Resp: 16240

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 276 | 100 | | |
| 277 | 25.8 | 20.6 | 31.0 |
| 138 | 24.5 | 20.2 | 30.2 |



Sample Results: **BN037832.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN091925\
Data File : BN037832.D
Acq On : 20 Sep 2025 02:35
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 20 Sample Multiplier: 1

**Instrument :**
BNA_N
**LabSampleId :**
SSTDCCC0.4

Quant Time: Sep 20 04:26:33 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN091125.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Sep 11 14:20:01 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 | 125 | -0.01 |
| 2 | | 1,4-Dioxane | 0.417 | 0.400 | 4.1 | 118 | 0.00 |
| 3 | | n-Nitrosodimethylamine | 0.544 | 0.478 | 12.1 | 106 | 0.00 |
| 4 | S | 2-Fluorophenol | 0.918 | 0.870 | 5.2 | 122 | 0.00 |
| 5 | S | Phenol-d6 | 1.191 | 1.110 | 6.8 | 120 | 0.00 |
| 6 | | bis(2-Chloroethyl)ether | 1.064 | 1.034 | 2.8 | 121 | 0.00 |
| 7 | I | Naphthalene-d8 | 1.000 | 1.000 | 0.0 | 125 | -0.01 |
| 8 | S | Nitrobenzene-d5 | 0.293 | 0.281 | 4.1 | 123 | -0.01 |
| 9 | | Naphthalene | 1.093 | 1.053 | 3.7 | 122 | -0.01 |
| 10 | | Hexachlorobutadiene | 0.198 | 0.186 | 6.1 | 118 | -0.02 |
| 11 | SURR | 2-Methylnaphthalene-d10 | 0.530 | 0.469 | 11.5 | 117 | -0.02 |
| 12 | | 2-Methylnaphthalene | 0.676 | 0.627 | 7.2 | 118 | -0.02 |
| 13 | I | Acenaphthene-d10 | 1.000 | 1.000 | 0.0 | 116 | -0.01 |
| 14 | S | 2,4,6-Tribromophenol | 0.104 | 0.112 | -7.7 | 128 | -0.01 |
| 15 | S | 2-Fluorobiphenyl | 1.673 | 1.666 | 0.4 | 117 | -0.01 |
| 16 | | Acenaphthylene | 1.834 | 1.702 | 7.2 | 110 | -0.01 |
| 17 | | Acenaphthene | 1.240 | 1.160 | 6.5 | 110 | -0.01 |
| 18 | | Fluorene | 1.502 | 1.342 | 10.7 | 108 | -0.01 |
| 19 | I | Phenanthrene-d10 | 1.000 | 1.000 | 0.0 | 106 | -0.01 |
| 20 | | 4,6-Dinitro-2-methylphenol | 0.037 | 0.025 | 32.4# | 81 | -0.01 |
| 21 | | 4-Bromophenyl-phenylether | 0.261 | 0.252 | 3.4 | 106 | -0.01 |
| 22 | | Hexachlorobenzene | 0.300 | 0.317 | -5.7 | 114 | -0.01 |
| 23 | | Atrazine | 0.166 | 0.153 | 7.8 | 107 | -0.01 |
| 24 | | Pentachlorophenol | 0.087 | 0.097 | -11.5 | 138 | -0.01 |
| 25 | | Phenanthrene | 1.259 | 1.208 | 4.1 | 104 | -0.01 |
| 26 | | Anthracene | 1.116 | 1.025 | 8.2 | 101 | -0.01 |
| 27 | SURR | Fluoranthene-d10 | 1.004 | 0.832 | 17.1 | 94 | -0.01 |
| 28 | | Fluoranthene | 1.381 | 1.204 | 12.8 | 97 | 0.00 |
| 29 | I | Chrysene-d12 | 1.000 | 1.000 | 0.0 | 104 | -0.02 |
| 30 | | Pyrene | 1.566 | 1.455 | 7.1 | 98 | -0.01 |
| 31 | S | Terphenyl-d14 | 0.812 | 0.693 | 14.7 | 90 | -0.01 |
| 32 | | Benzo(a)anthracene | 1.395 | 1.341 | 3.9 | 104 | 0.00 |
| 33 | | Chrysene | 1.496 | 1.443 | 3.5 | 101 | -0.02 |
| 34 | | Bis(2-ethylhexyl)phthalate | 0.414 | 0.435 | -5.1 | 121 | -0.02 |
| 35 | I | Perylene-d12 | 1.000 | 1.000 | 0.0 | 112 | -0.02 |
| 36 | | Indeno(1,2,3-cd)pyrene | 1.681 | 1.792 | -6.6 | 130 | -0.02 |
| 37 | | Benzo(b)fluoranthene | 1.575 | 1.573 | 0.1 | 114 | -0.01 |
| 38 | | Benzo(k)fluoranthene | 1.606 | 1.564 | 2.6 | 115 | -0.01 |
| 39 | C | Benzo(a)pyrene | 1.261 | 1.240 | 1.7 | 116 | -0.01 |
| 40 | | Dibenzo(a,h)anthracene | 1.342 | 1.404 | -4.6 | 130 | -0.03 |
| 41 | | Benzo(g,h,i)perylene | 1.506 | 1.613 | -7.1 | 125 | -0.03 |

(#) = Out of Range SPCC's out = 0 CCC's out = 0

**Instrument :**
BNA_N
**LabSampleId :**
SSTDCCC0.4

Evaluate Continuing Calibration Report

Sample Results: **BN037832.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN091925\
Data File : BN037832.D
Acq On : 20 Sep 2025 02:35
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 20 Sample Multiplier: 1

**Instrument :**
BNA_N
**LabSampleId :**
SSTDCCC0.4

Quant Time: Sep 20 04:26:33 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN091125.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Sep 11 14:20:01 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 | 125 | -0.01 |
| 2 | | 1,4-Dioxane | 0.400 | 0.384 | 4.0 | 118 | 0.00 |
| 3 | | n-Nitrosodimethylamine | 0.400 | 0.351 | 12.3 | 106 | 0.00 |
| 4 | S | 2-Fluorophenol | 0.400 | 0.379 | 5.3 | 122 | 0.00 |
| 5 | S | Phenol-d6 | 0.400 | 0.373 | 6.8 | 120 | 0.00 |
| 6 | | bis(2-Chloroethyl)ether | 0.400 | 0.389 | 2.8 | 121 | 0.00 |
| 7 | I | Naphthalene-d8 | 0.400 | 0.400 | 0.0 | 125 | -0.01 |
| 8 | S | Nitrobenzene-d5 | 0.400 | 0.385 | 3.8 | 123 | -0.01 |
| 9 | | Naphthalene | 0.400 | 0.385 | 3.8 | 122 | -0.01 |
| 10 | | Hexachlorobutadiene | 0.400 | 0.377 | 5.8 | 118 | -0.02 |
| 11 | SURR | 2-Methylnaphthalene-d10 | 0.400 | 0.354 | 11.5 | 117 | -0.02 |
| 12 | | 2-Methylnaphthalene | 0.400 | 0.371 | 7.3 | 118 | -0.02 |
| 13 | I | Acenaphthene-d10 | 0.400 | 0.400 | 0.0 | 116 | -0.01 |
| 14 | S | 2,4,6-Tribromophenol | 0.400 | 0.428 | -7.0 | 128 | -0.01 |
| 15 | S | 2-Fluorobiphenyl | 0.400 | 0.398 | 0.5 | 117 | -0.01 |
| 16 | | Acenaphthylene | 0.400 | 0.371 | 7.3 | 110 | -0.01 |
| 17 | | Acenaphthene | 0.400 | 0.374 | 6.5 | 110 | -0.01 |
| 18 | | Fluorene | 0.400 | 0.357 | 10.8 | 108 | -0.01 |
| 19 | I | Phenanthrene-d10 | 0.400 | 0.400 | 0.0 | 106 | -0.01 |
| 20 | | 4,6-Dinitro-2-methylphenol | 0.400 | 0.272 | 32.0# | 81 | -0.01 |
| 21 | | 4-Bromophenyl-phenylether | 0.400 | 0.386 | 3.5 | 106 | -0.01 |
| 22 | | Hexachlorobenzene | 0.400 | 0.423 | -5.7 | 114 | -0.01 |
| 23 | | Atrazine | 0.400 | 0.369 | 7.8 | 107 | -0.01 |
| 24 | | Pentachlorophenol | 0.400 | 0.447 | -11.7 | 138 | -0.01 |
| 25 | | Phenanthrene | 0.400 | 0.384 | 4.0 | 104 | -0.01 |
| 26 | | Anthracene | 0.400 | 0.368 | 8.0 | 101 | -0.01 |
| 27 | SURR | Fluoranthene-d10 | 0.400 | 0.331 | 17.3 | 94 | -0.01 |
| 28 | | Fluoranthene | 0.400 | 0.349 | 12.8 | 97 | 0.00 |
| 29 | I | Chrysene-d12 | 0.400 | 0.400 | 0.0 | 104 | -0.02 |
| 30 | | Pyrene | 0.400 | 0.372 | 7.0 | 98 | -0.01 |
| 31 | S | Terphenyl-d14 | 0.400 | 0.342 | 14.5 | 90 | -0.01 |
| 32 | | Benzo(a)anthracene | 0.400 | 0.384 | 4.0 | 104 | 0.00 |
| 33 | | Chrysene | 0.400 | 0.386 | 3.5 | 101 | -0.02 |
| 34 | | Bis(2-ethylhexyl)phthalate | 0.400 | 0.420 | -5.0 | 121 | -0.02 |
| 35 | I | Perylene-d12 | 0.400 | 0.400 | 0.0 | 112 | -0.02 |
| 36 | | Indeno(1,2,3-cd)pyrene | 0.400 | 0.426 | -6.5 | 130 | -0.02 |
| 37 | | Benzo(b)fluoranthene | 0.400 | 0.399 | 0.3 | 114 | -0.01 |
| 38 | | Benzo(k)fluoranthene | 0.400 | 0.390 | 2.5 | 115 | -0.01 |
| 39 | C | Benzo(a)pyrene | 0.400 | 0.393 | 1.8 | 116 | -0.01 |
| 40 | | Dibenzo(a,h)anthracene | 0.400 | 0.418 | -4.5 | 130 | -0.03 |
| 41 | | Benzo(g,h,i)perylene | 0.400 | 0.429 | -7.2 | 125 | -0.03 |

(#) = Out of Range SPCC's out = 0 CCC's out = 0

**Instrument :**
BNA_N
**LabSampleId :**
SSTDCCC0.4

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

7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: Alliance Contract: AECO15

Lab Code: ACE SDG No.: Q3095

Instrument ID: BNA_N Calibration Date/Time: 09/20/2025 11:39

Lab File ID: BN037847.D Init. Calib. Date(s): 09/11/2025 09/11/2025

EPA Sample No.: SSTDCCC0.4EC Init. Calib. Time(s): 09:56 13:33

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

| COMPOUND | RRF | RRF0.4 | MIN RRF | %D | MAX%D |
|---|---|---|---|---|---|
| 2-Methylnaphthalene-d10 | 0.530 | 0.470 | | -11.3 | 50.0 |
| Fluoranthene-d10 | 1.004 | 0.915 | | -8.9 | 50.0 |
| 2-Fluorophenol | 0.918 | 0.876 | | -4.6 | 50.0 |
| Phenol-d6 | 1.191 | 1.109 | | -6.9 | 50.0 |
| Nitrobenzene-d5 | 0.293 | 0.288 | | -1.7 | 50.0 |
| 2-Fluorobiphenyl | 1.673 | 1.607 | | -3.9 | 50.0 |
| 2,4,6-Tribromophenol | 0.104 | 0.123 | | 18.3 | 50.0 |
| Terphenyl-d14 | 0.812 | 0.706 | | -13.1 | 50.0 |
| 1,4-Dioxane | 0.417 | 0.423 | | 1.4 | 50.0 |

All other compounds must meet a minimum RRF of 0.010.

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN091925\
Data File : BN037847.D
Acq On : 20 Sep 2025 11:39
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 35 Sample Multiplier: 1

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4EC

Quant Time: Sep 22 00:38:02 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN091125.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Sep 11 14:20:01 2025
Response via : Initial Calibration

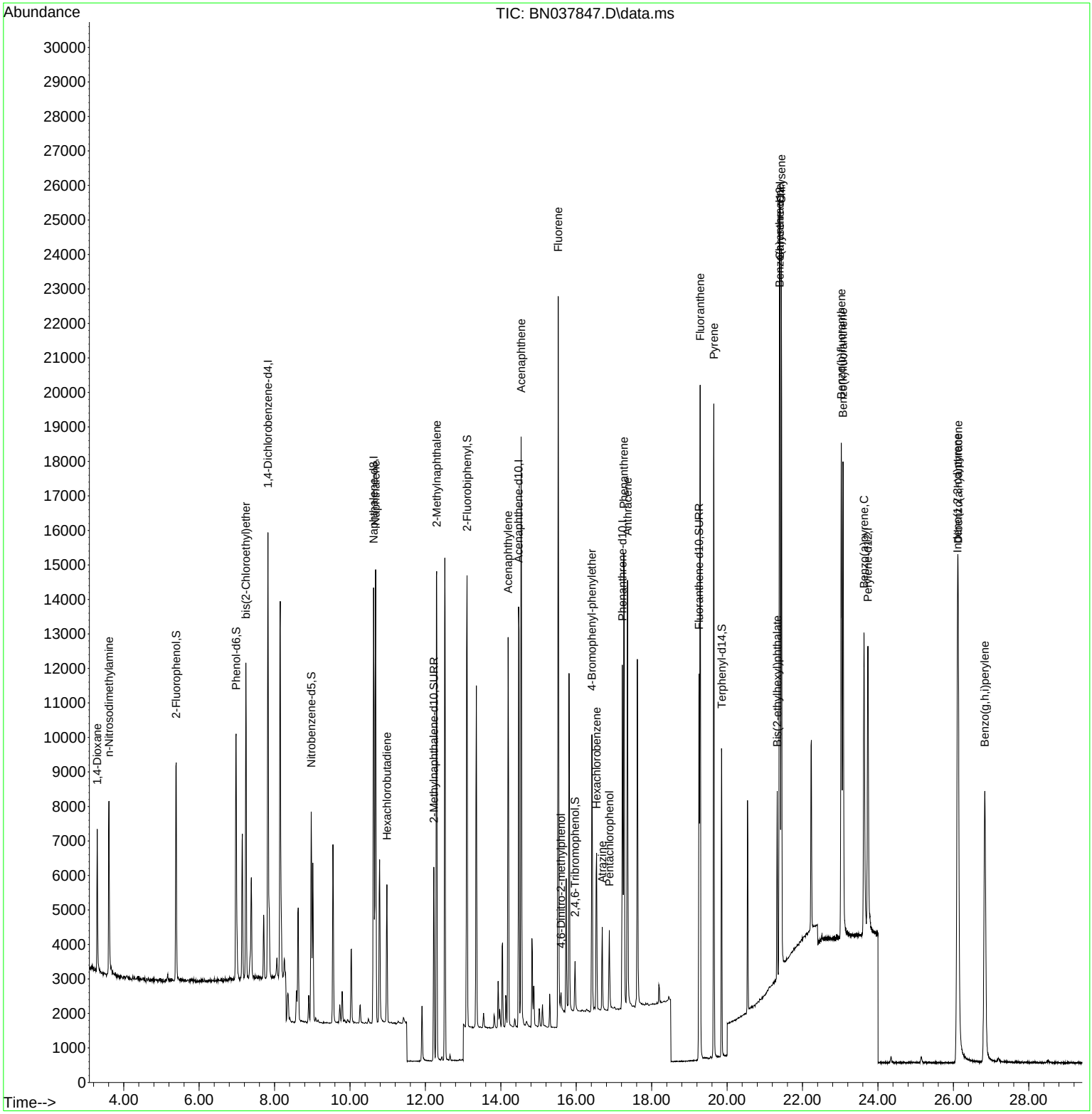
| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| Internal Standards | | | | | | | |
| 1) 1,4-Dichlorobenzene-d4 | 7.825 | 152 | 6137 | 0.400 | ng | | -0.01 |
| 7) Naphthalene-d8 | 10.626 | 136 | 16197 | 0.400 | ng | | -0.02 |
| 13) Acenaphthene-d10 | 14.473 | 164 | 7238 | 0.400 | ng | | -0.02 |
| 19) Phenanthrene-d10 | 17.223 | 188 | 13073 | 0.400 | ng | | -0.01 |
| 29) Chrysene-d12 | 21.402 | 240 | 12006 | 0.400 | ng | | #-0.02 |
| 35) Perylene-d12 | 23.736 | 264 | 11862 | 0.400 | ng | | #-0.02 |
| System Monitoring Compounds | | | | | | | |
| 4) 2-Fluorophenol | 5.392 | 112 | 5373 | 0.381 | ng | | 0.00 |
| 5) Phenol-d6 | 6.980 | 99 | 6805 | 0.373 | ng | | 0.00 |
| 8) Nitrobenzene-d5 | 8.971 | 82 | 4665 | 0.394 | ng | | -0.02 |
| 11) 2-Methylnaphthalene-d10 | 12.222 | 152 | 7614 | 0.355 | ng | | -0.02 |
| 14) 2,4,6-Tribromophenol | 15.969 | 330 | 891 | 0.472 | ng | | -0.01 |
| 15) 2-Fluorobiphenyl | 13.105 | 172 | 11631 | 0.384 | ng | | -0.01 |
| 27) Fluoranthene-d10 | 19.257 | 212 | 11964 | 0.365 | ng | | -0.01 |
| 31) Terphenyl-d14 | 19.856 | 244 | 8481 | 0.348 | ng | | -0.01 |
| Target Compounds | | | | | | | Qvalue |
| 2) 1,4-Dioxane | 3.297 | 88 | 2596 | 0.406 | ng | | 95 |
| 3) n-Nitrosodimethylamine | 3.608 | 42 | 3185 | 0.381 | ng | | 92 |
| 6) bis(2-Chloroethyl)ether | 7.240 | 93 | 6315 | 0.387 | ng | | 99 |
| 9) Naphthalene | 10.680 | 128 | 17021 | 0.384 | ng | | 99 |
| 10) Hexachlorobutadiene | 10.979 | 225 | 3043 | 0.380 | ng | # | 100 |
| 12) 2-Methylnaphthalene | 12.298 | 142 | 10117 | 0.369 | ng | | 99 |
| 16) Acenaphthylene | 14.195 | 152 | 12119 | 0.365 | ng | | 100 |
| 17) Acenaphthene | 14.537 | 154 | 8461 | 0.377 | ng | | 97 |
| 18) Fluorene | 15.522 | 166 | 9893 | 0.364 | ng | | 98 |
| 20) 4,6-Dinitro-2-methylph... | 15.597 | 198 | 396 | 0.327 | ng | | 87 |
| 21) 4-Bromophenyl-phenylether | 16.416 | 248 | 3095 | 0.363 | ng | # | 74 |
| 22) Hexachlorobenzene | 16.540 | 284 | 3993 | 0.407 | ng | | 98 |
| 23) Atrazine | 16.689 | 200 | 1936 | 0.357 | ng | | 100 |
| 24) Pentachlorophenol | 16.875 | 266 | 1204 | 0.423 | ng | | 98 |
| 25) Phenanthrene | 17.260 | 178 | 15813 | 0.384 | ng | | 99 |
| 26) Anthracene | 17.359 | 178 | 13675 | 0.375 | ng | | 100 |
| 28) Fluoranthene | 19.285 | 202 | 17285 | 0.383 | ng | | 100 |
| 30) Pyrene | 19.647 | 202 | 17226 | 0.367 | ng | | 100 |
| 32) Benzo(a)anthracene | 21.393 | 228 | 15817 | 0.378 | ng | | 99 |
| 33) Chrysene | 21.438 | 228 | 17106 | 0.381 | ng | | 97 |
| 34) Bis(2-ethylhexyl)phtha... | 21.331 | 149 | 4990 | 0.402 | ng | | 99 |
| 36) Indeno(1,2,3-cd)pyrene | 26.110 | 276 | 20571 | 0.413 | ng | | 100 |
| 37) Benzo(b)fluoranthene | 23.028 | 252 | 18556 | 0.397 | ng | | 97 |
| 38) Benzo(k)fluoranthene | 23.075 | 252 | 19102 | 0.401 | ng | | 97 |
| 39) Benzo(a)pyrene | 23.630 | 252 | 14379 | 0.384 | ng | # | 96 |
| 40) Dibenzo(a,h)anthracene | 26.127 | 278 | 15603 | 0.392 | ng | | 98 |
| 41) Benzo(g,h,i)perylene | 26.835 | 276 | 17395 | 0.390 | ng | | 99 |

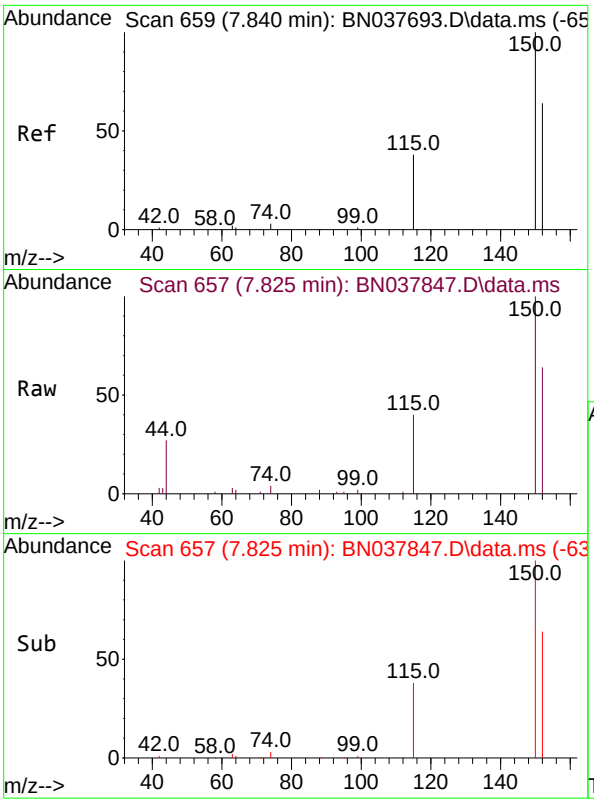
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN091925\
Data File : BN037847.D
Acq On : 20 Sep 2025 11:39
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 35 Sample Multiplier: 1

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4EC

Quant Time: Sep 22 00:38:02 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN091125.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Sep 11 14:20:01 2025
Response via : Initial Calibration



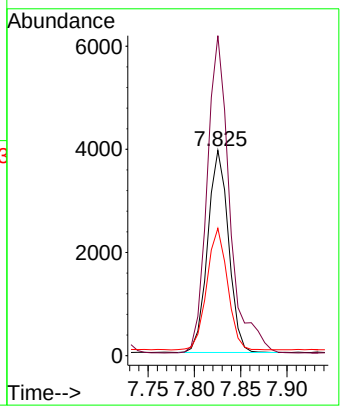


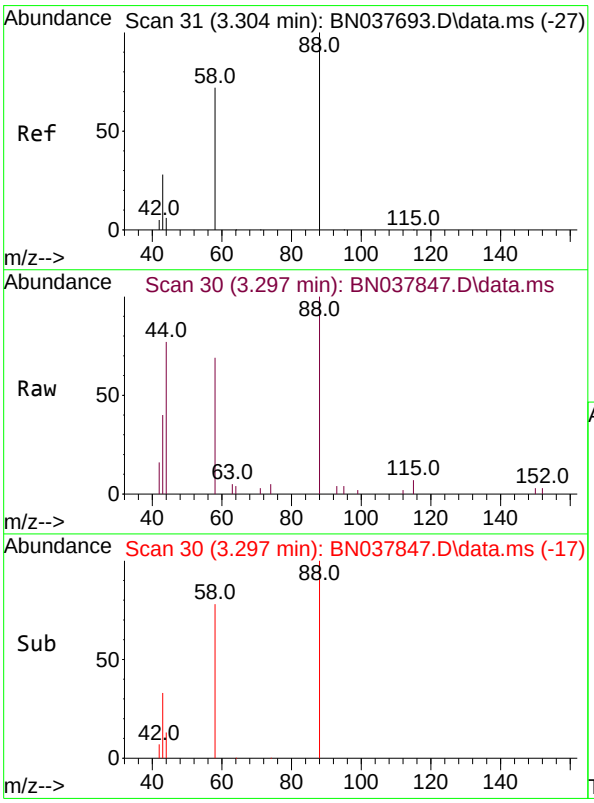

#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.825 min Scan# 6
Delta R.T. -0.015 min
Lab File: BN037847.D
Acq: 20 Sep 2025 11:39

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4EC

Tgt Ion:152 Resp: 6137

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 150 | 155.9 | 124.5 | 186.7 |
| 115 | 62.0 | 49.2 | 73.8 |

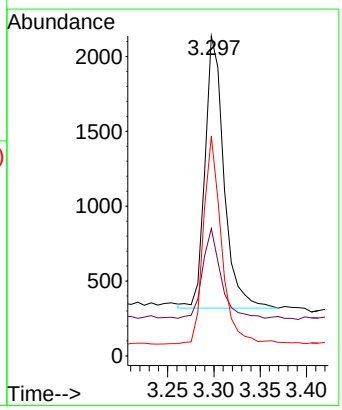


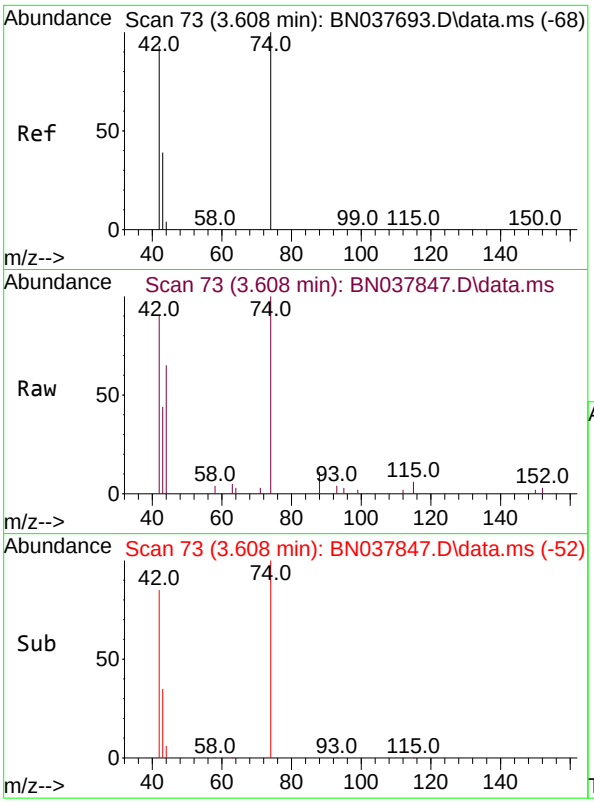




#2
1,4-Dioxane
Concen: 0.406 ng
RT: 3.297 min Scan# 30
Delta R.T. -0.007 min
Lab File: BN037847.D
Acq: 20 Sep 2025 11:39

Tgt Ion: 88 Resp: 2596

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 88 | 100 | | |
| 43 | 31.8 | 26.8 | 40.2 |
| 58 | 72.9 | 61.9 | 92.9 |



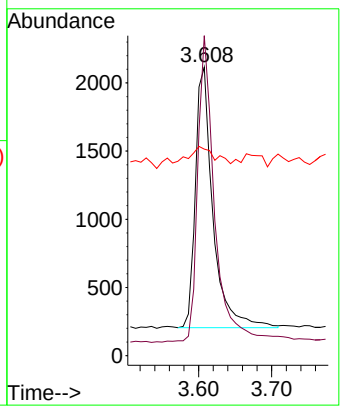


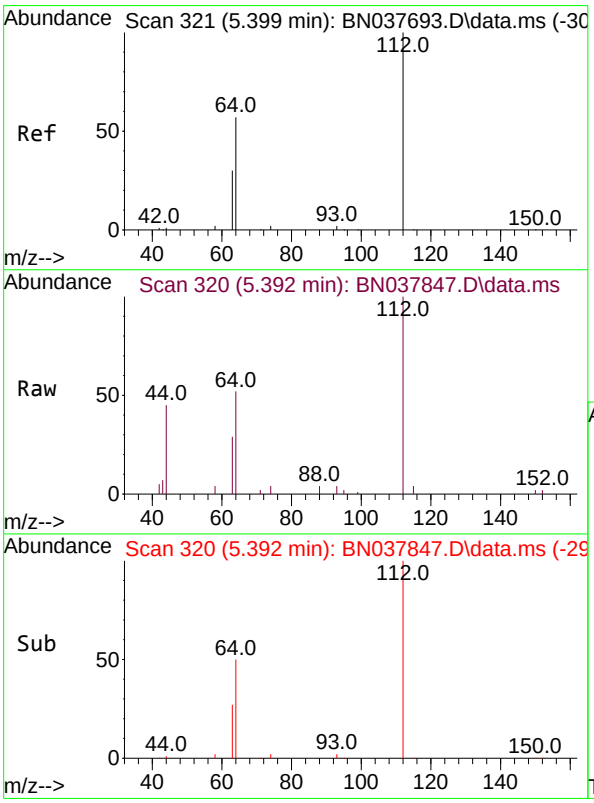

#3
n-Nitrosodimethylamine
Concen: 0.381 ng
RT: 3.608 min Scan# 7
Delta R.T. -0.000 min
Lab File: BN037847.D
Acq: 20 Sep 2025 11:39

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4EC

Tgt Ion: 42 Resp: 3185

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 42 | 100 | | |
| 74 | 116.1 | 86.0 | 129.0 |
| 44 | 8.6 | 8.4 | 12.6 |

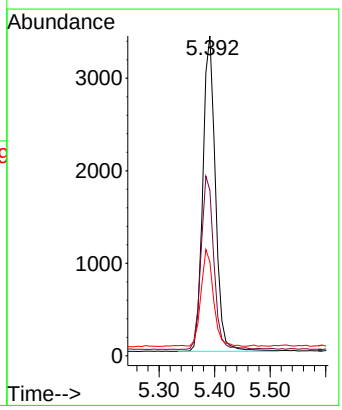


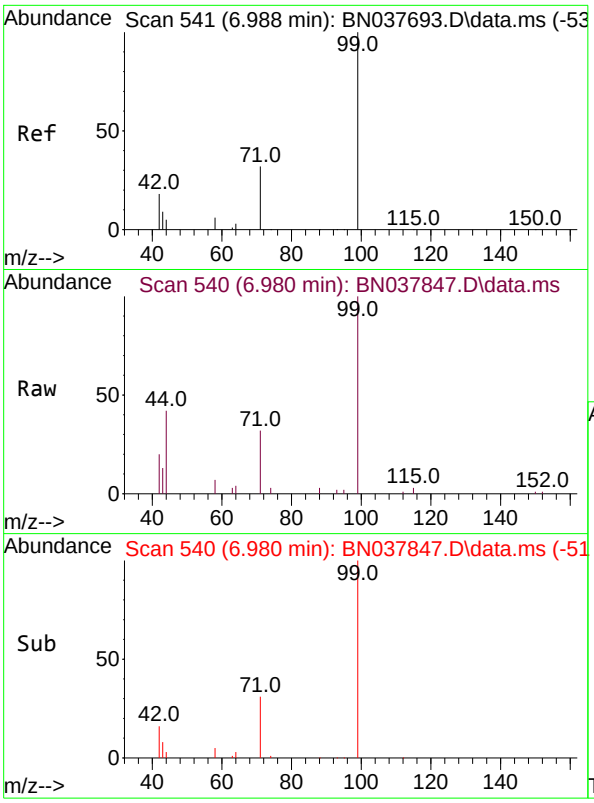




#4
2-Fluorophenol
Concen: 0.381 ng
RT: 5.392 min Scan# 320
Delta R.T. -0.007 min
Lab File: BN037847.D
Acq: 20 Sep 2025 11:39

Tgt Ion:112 Resp: 5373

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 112 | 100 | | |
| 64 | 55.7 | 44.9 | 67.3 |
| 63 | 29.9 | 24.7 | 37.1 |



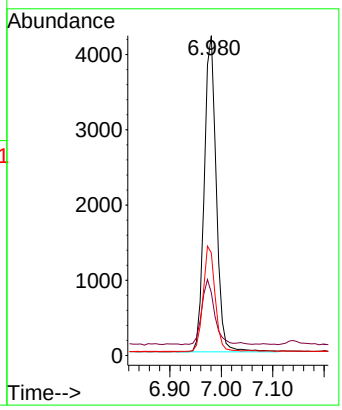


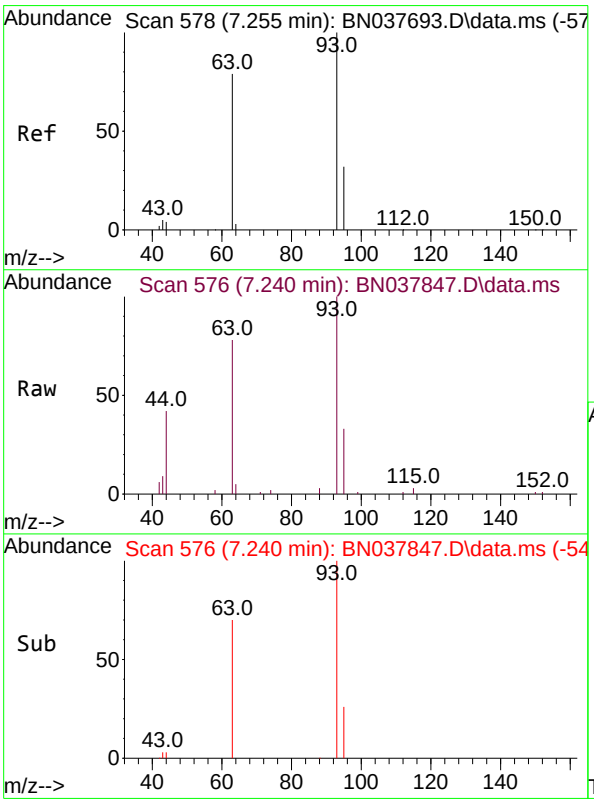

#5
Phenol-d6
Concen: 0.373 ng
RT: 6.980 min Scan# 54
Delta R.T. -0.007 min
Lab File: BN037847.D
Acq: 20 Sep 2025 11:39

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4EC

Tgt Ion: 99 Resp: 6805

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 99 | 100 | | |
| 42 | 21.6 | 16.6 | 24.8 |
| 71 | 33.1 | 26.7 | 40.1 |

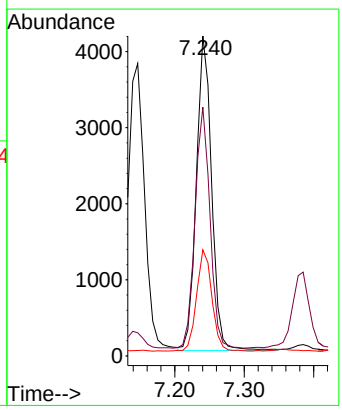


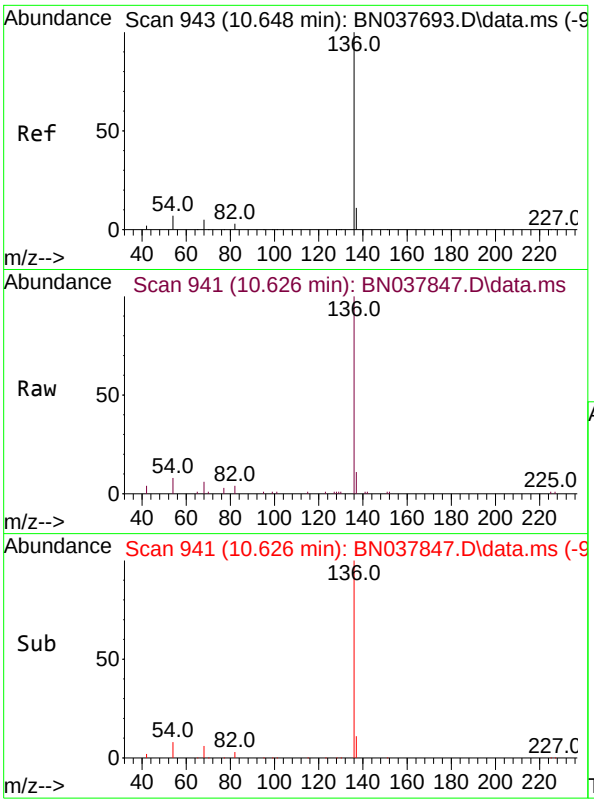




#6
bis(2-Chloroethyl)ether
Concen: 0.387 ng
RT: 7.240 min Scan# 576
Delta R.T. -0.015 min
Lab File: BN037847.D
Acq: 20 Sep 2025 11:39

Tgt Ion: 93 Resp: 6315

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 93 | 100 | | |
| 63 | 75.2 | 60.6 | 90.8 |
| 95 | 32.2 | 26.0 | 39.0 |



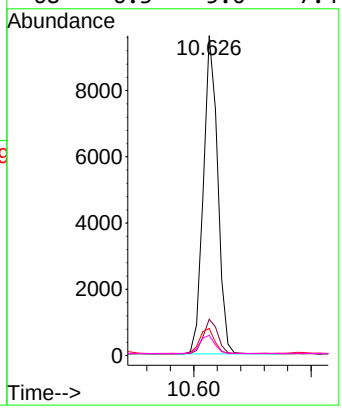


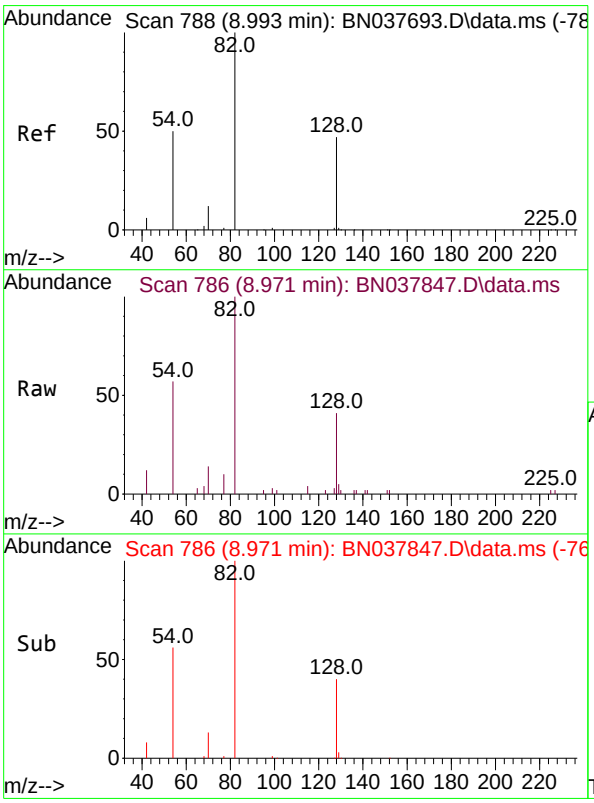

#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.626 min Scan# 94
Delta R.T. -0.021 min
Lab File: BN037847.D
Acq: 20 Sep 2025 11:39

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4EC

Tgt Ion:136 Resp: 16197

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 136 | 100 | | |
| 137 | 11.4 | 9.1 | 13.7 |
| 54 | 8.5 | 6.3 | 9.5 |
| 68 | 6.3 | 5.0 | 7.4 |

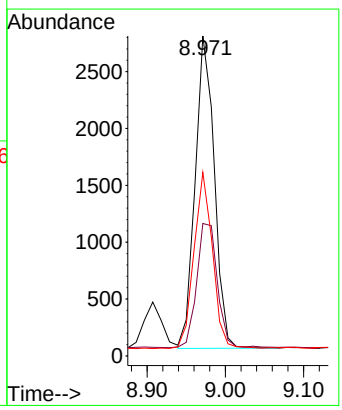


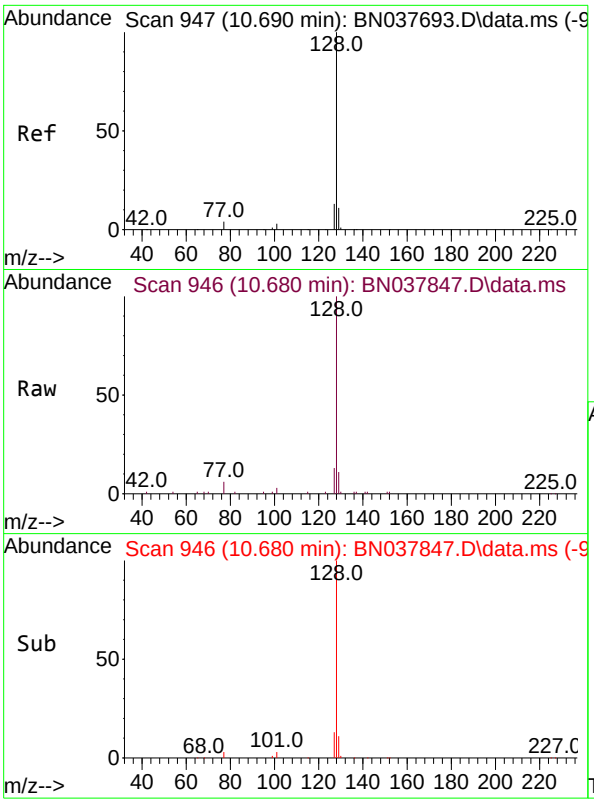




#8
Nitrobenzene-d5
Concen: 0.394 ng
RT: 8.971 min Scan# 786
Delta R.T. -0.021 min
Lab File: BN037847.D
Acq: 20 Sep 2025 11:39

Tgt Ion: 82 Resp: 4665

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 82 | 100 | | |
| 128 | 41.4 | 38.3 | 57.5 |
| 54 | 57.4 | 41.4 | 62.2 |



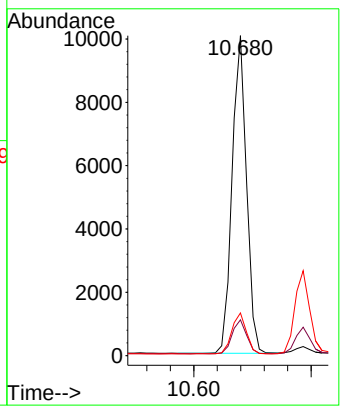


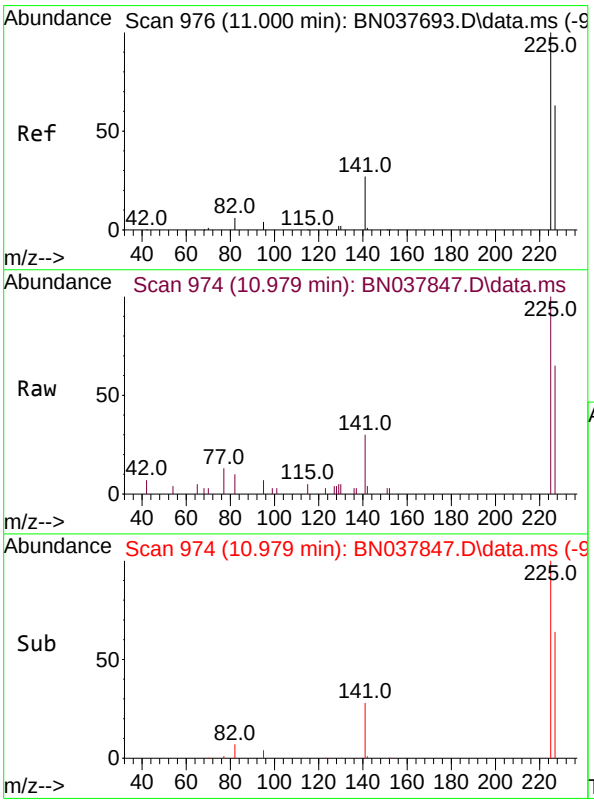

#9
Naphthalene
Concen: 0.384 ng
RT: 10.680 min Scan# 94
Delta R.T. -0.011 min
Lab File: BN037847.D
Acq: 20 Sep 2025 11:39

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4EC

Tgt Ion:128 Resp: 17021

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 128 | 100 | | |
| 129 | 11.2 | 9.1 | 13.7 |
| 127 | 13.3 | 10.9 | 16.3 |

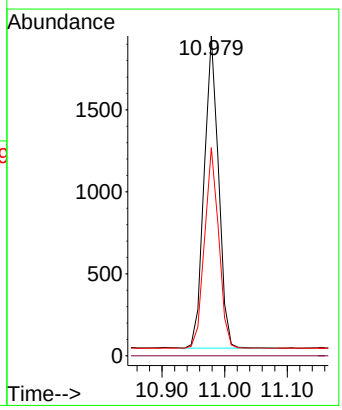


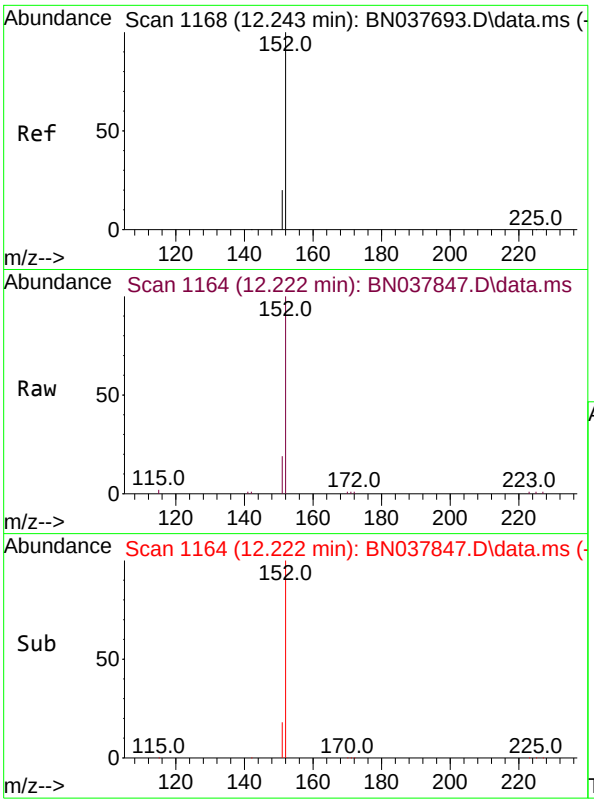




#10
Hexachlorobutadiene
Concen: 0.380 ng
RT: 10.979 min Scan# 974
Delta R.T. -0.021 min
Lab File: BN037847.D
Acq: 20 Sep 2025 11:39

Tgt Ion:225 Resp: 3043

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 225 | 100 | | |
| 223 | 0.0 | 0.0 | 0.0 |
| 227 | 63.4 | 50.9 | 76.3 |



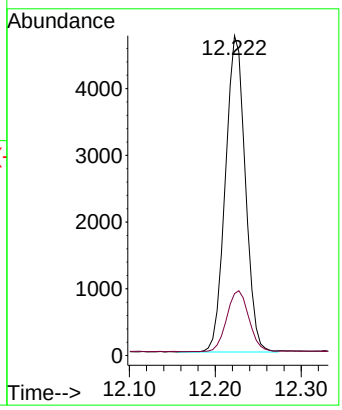


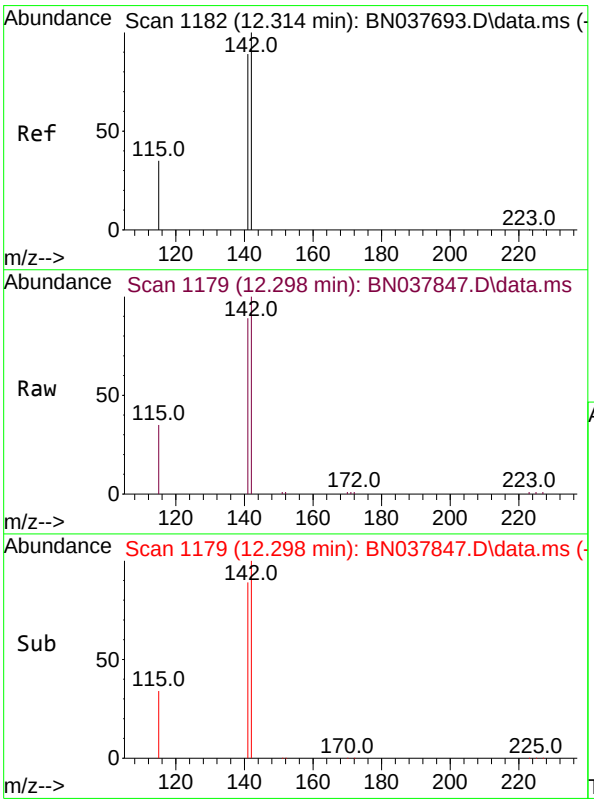

#11
2-Methylnaphthalene-d10
Concen: 0.355 ng
RT: 12.222 min Scan# 11
Delta R.T. -0.020 min
Lab File: BN037847.D
Acq: 20 Sep 2025 11:39

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4EC

Tgt Ion:152 Resp: 7614

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 151 | 21.5 | 17.0 | 25.6 |

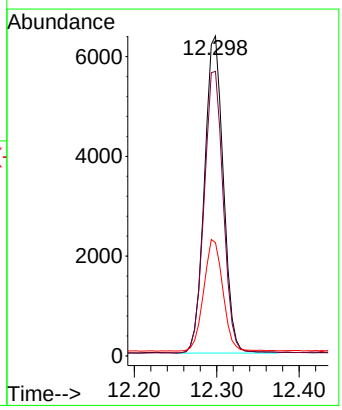


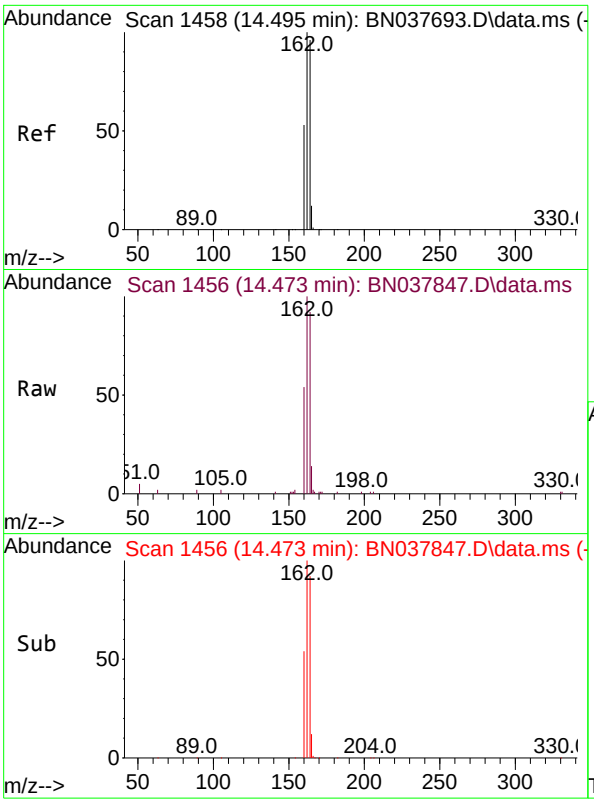




#12
2-Methylnaphthalene
Concen: 0.369 ng
RT: 12.298 min Scan# 1179
Delta R.T. -0.015 min
Lab File: BN037847.D
Acq: 20 Sep 2025 11:39

Tgt Ion:142 Resp: 10117

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 142 | 100 | | |
| 141 | 88.9 | 71.6 | 107.4 |
| 115 | 35.4 | 28.6 | 43.0 |



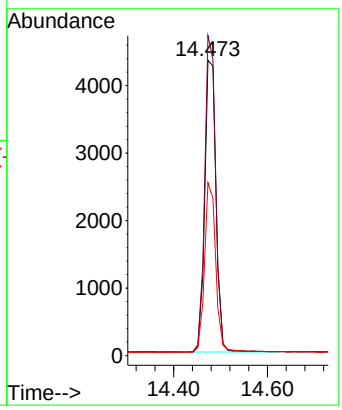


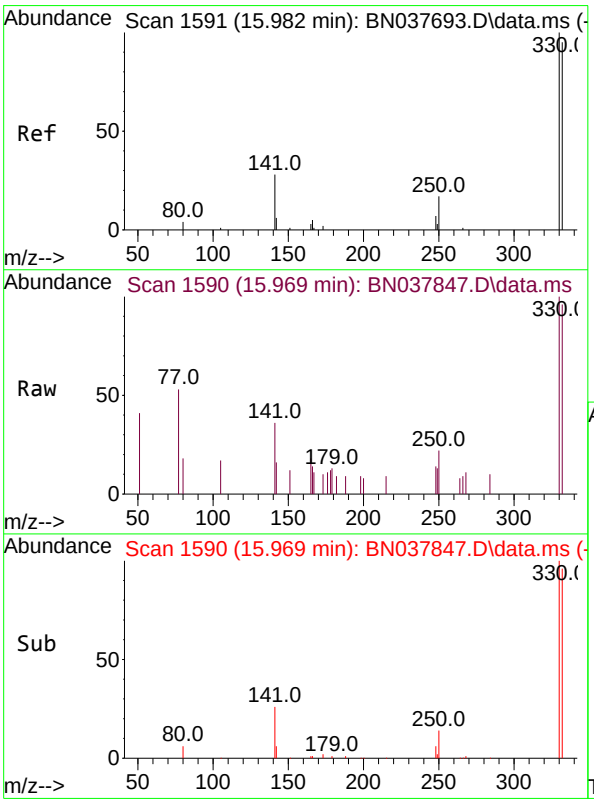

#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.473 min Scan# 14
Delta R.T. -0.022 min
Lab File: BN037847.D
Acq: 20 Sep 2025 11:39

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4EC

Tgt Ion:164 Resp: 7238

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 164 | 100 | | |
| 162 | 108.4 | 83.1 | 124.7 |
| 160 | 58.5 | 44.3 | 66.5 |

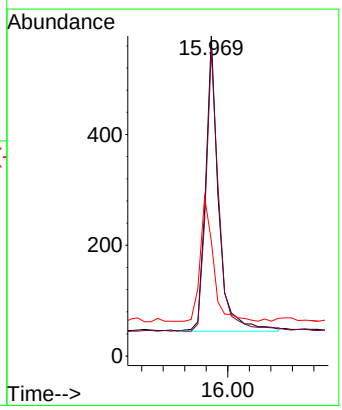


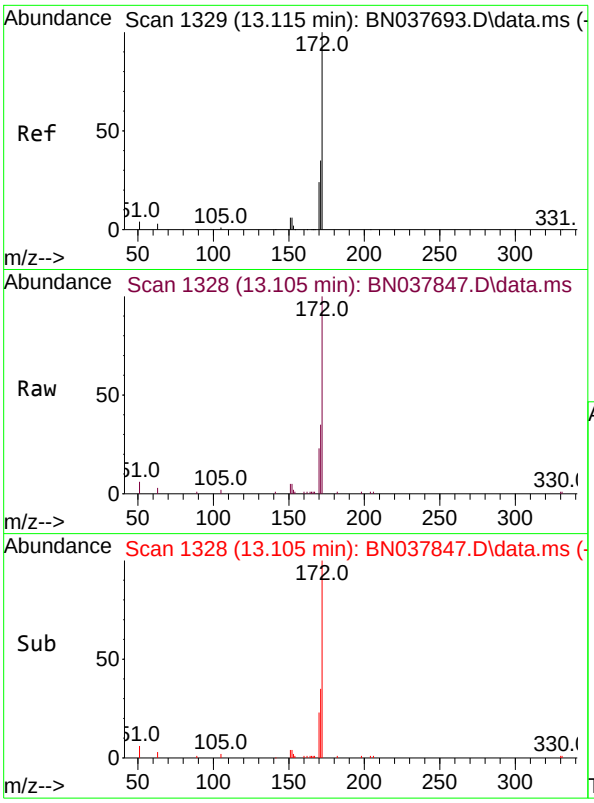




#14
2,4,6-Tribromophenol
Concen: 0.472 ng
RT: 15.969 min Scan# 1590
Delta R.T. -0.013 min
Lab File: BN037847.D
Acq: 20 Sep 2025 11:39

Tgt Ion:330 Resp: 891

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 330 | 100 | | |
| 332 | 96.3 | 75.3 | 112.9 |
| 141 | 42.8 | 35.0 | 52.4 |



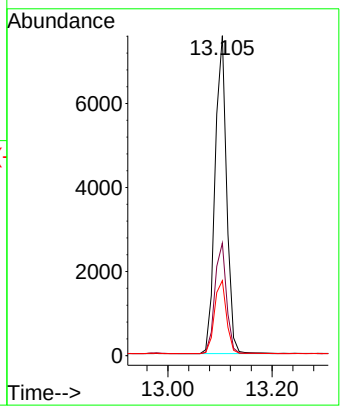


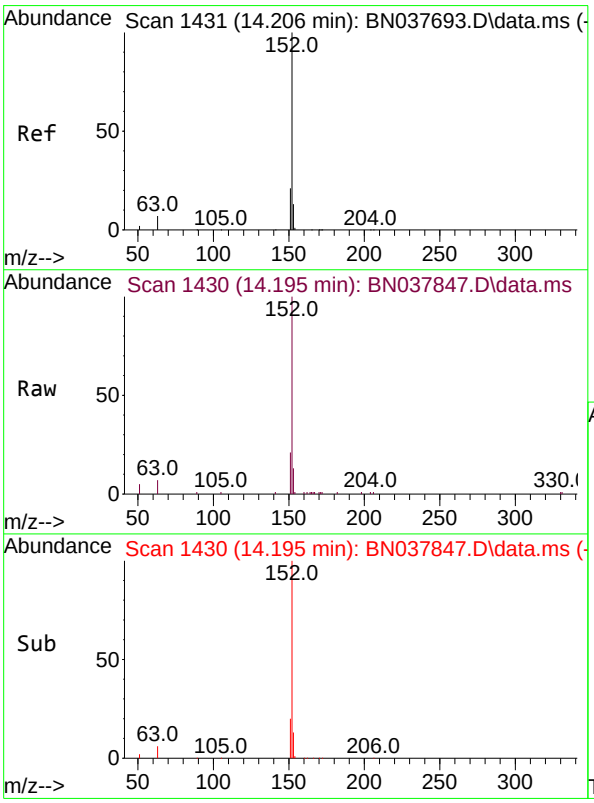

#15
2-Fluorobiphenyl
Concen: 0.384 ng
RT: 13.105 min Scan# 1
Delta R.T. -0.011 min
Lab File: BN037847.D
Acq: 20 Sep 2025 11:39

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4EC

Tgt Ion:172 Resp: 11631

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 172 | 100 | | |
| 171 | 35.2 | 28.6 | 43.0 |
| 170 | 23.5 | 19.8 | 29.8 |

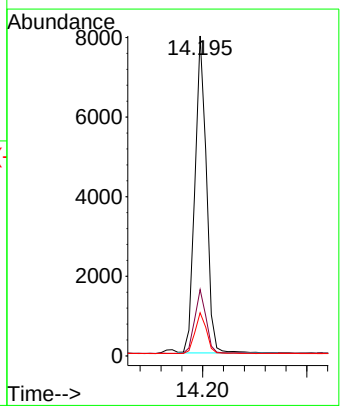


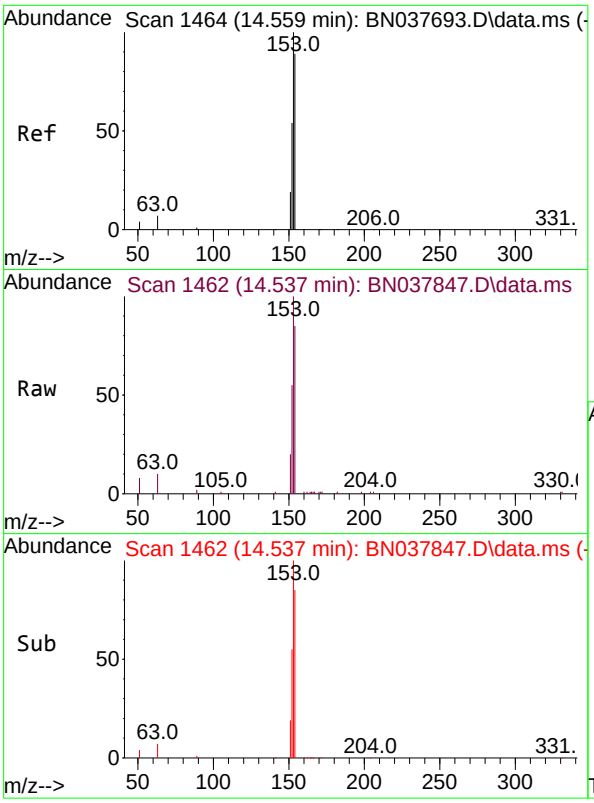




#16
Acenaphthylene
Concen: 0.365 ng
RT: 14.195 min Scan# 1430
Delta R.T. -0.011 min
Lab File: BN037847.D
Acq: 20 Sep 2025 11:39

Tgt Ion:152 Resp: 12119

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 151 | 20.2 | 16.2 | 24.2 |
| 153 | 12.9 | 10.4 | 15.6 |



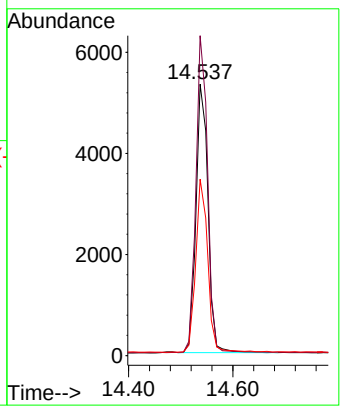


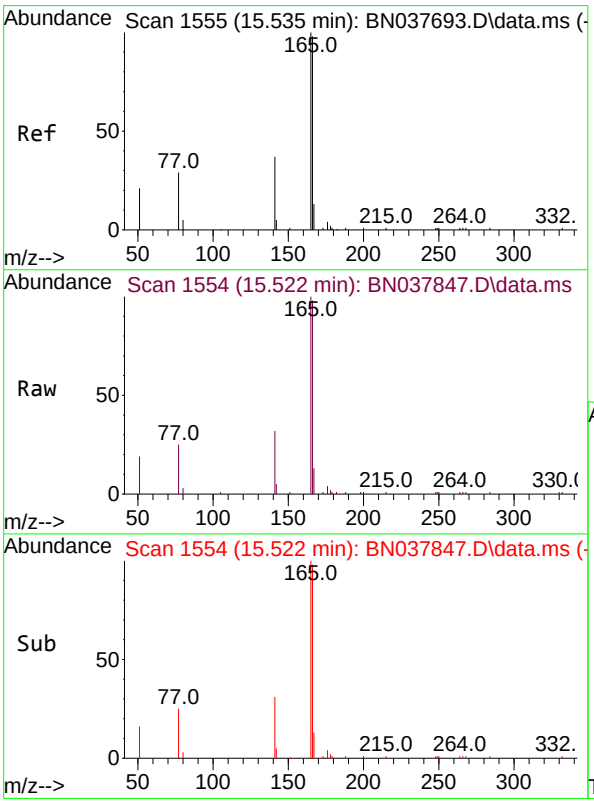

#17
Acenaphthene
Concen: 0.377 ng
RT: 14.537 min Scan# 14
Delta R.T. -0.022 min
Lab File: BN037847.D
Acq: 20 Sep 2025 11:39

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4EC

Tgt Ion:154 Resp: 8461

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 154 | 100 | | |
| 153 | 115.3 | 89.8 | 134.8 |
| 152 | 65.0 | 50.2 | 75.2 |

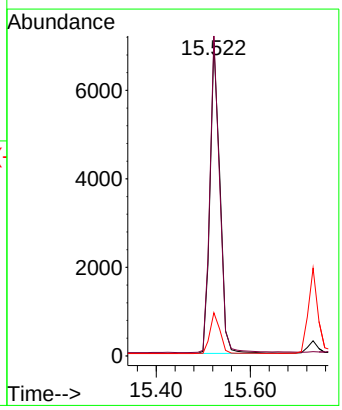


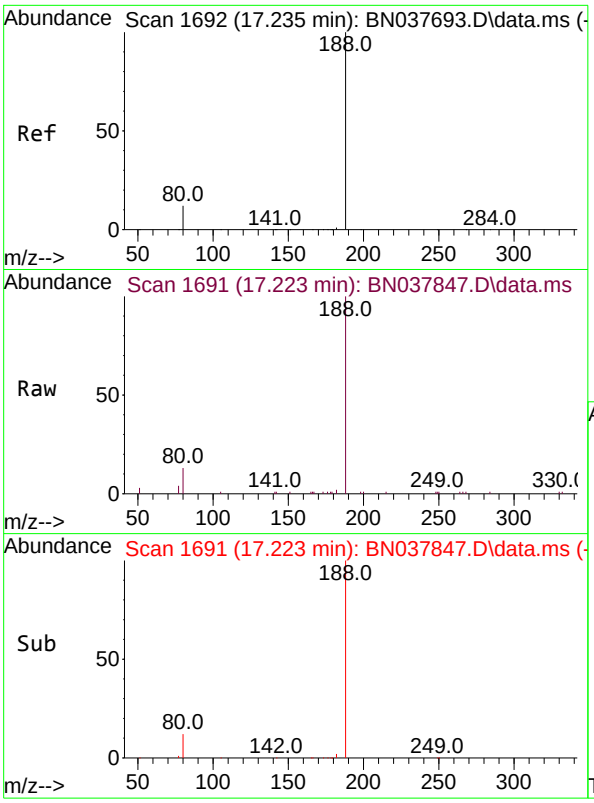




#18
Fluorene
Concen: 0.364 ng
RT: 15.522 min Scan# 1554
Delta R.T. -0.013 min
Lab File: BN037847.D
Acq: 20 Sep 2025 11:39

Tgt Ion:166 Resp: 9893

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 166 | 100 | | |
| 165 | 101.3 | 79.6 | 119.4 |
| 167 | 13.8 | 10.6 | 16.0 |



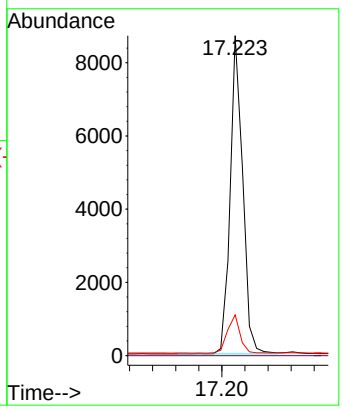


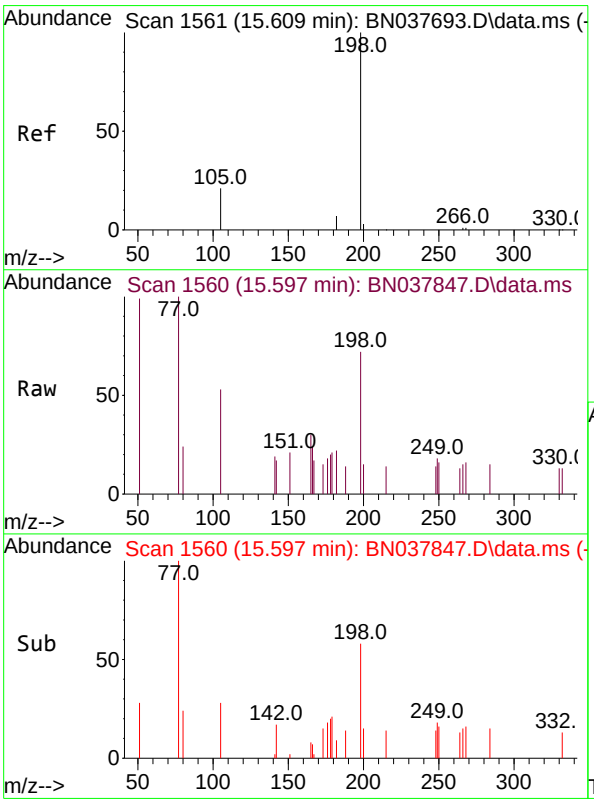

#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.223 min Scan# 1
Delta R.T. -0.013 min
Lab File: BN037847.D
Acq: 20 Sep 2025 11:39

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4EC

Tgt Ion:188 Resp: 13073

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 188 | 100 | | |
| 94 | 0.0 | 0.0 | 0.0 |
| 80 | 12.7 | 10.6 | 15.8 |

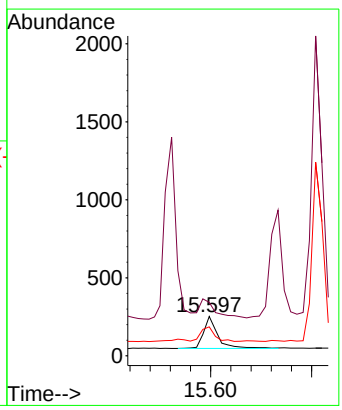


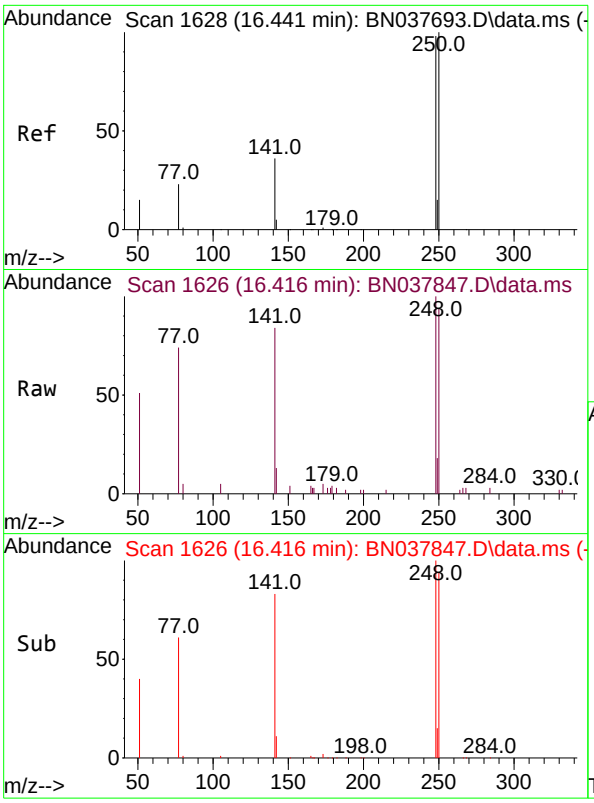




#20
4,6-Dinitro-2-methylphenol
Concen: 0.327 ng
RT: 15.597 min Scan# 1560
Delta R.T. -0.012 min
Lab File: BN037847.D
Acq: 20 Sep 2025 11:39

Tgt Ion:198 Resp: 396

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 198 | 100 | | |
| 51 | 136.1 | 95.1 | 142.7 |
| 105 | 73.8 | 53.8 | 80.6 |



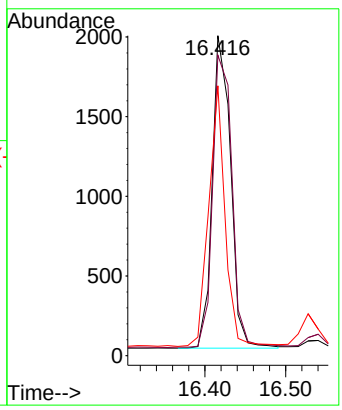


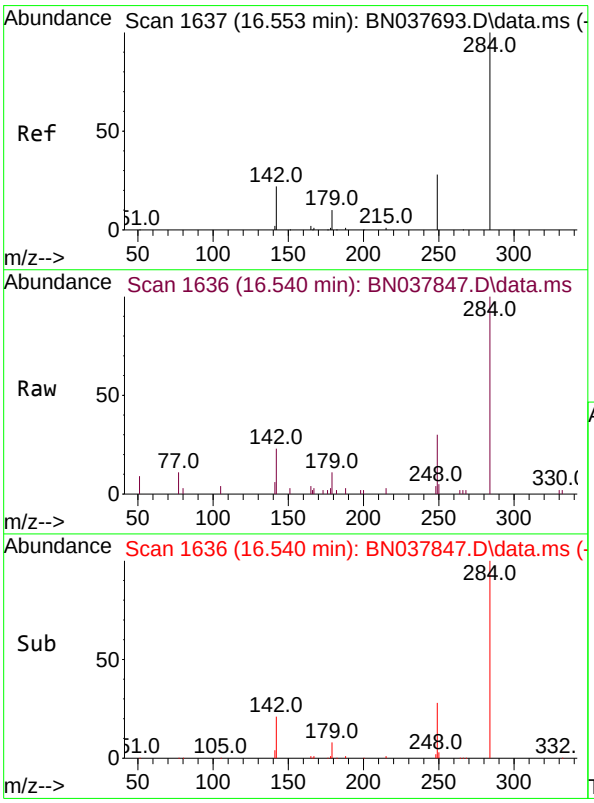

#21
4-Bromophenyl-phenylether
Concen: 0.363 ng
RT: 16.416 min Scan# 1
Delta R.T. -0.025 min
Lab File: BN037847.D
Acq: 20 Sep 2025 11:39

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4EC

Tgt Ion:248 Resp: 3095

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 248 | 100 | | |
| 250 | 93.9 | 81.5 | 122.3 |
| 141 | 84.3 | 30.8 | 46.2# |

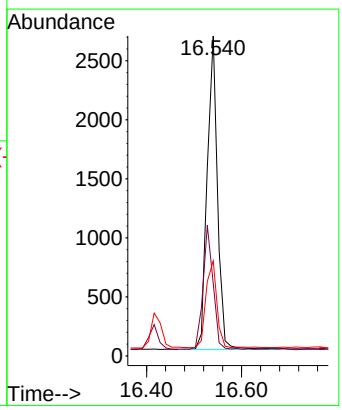


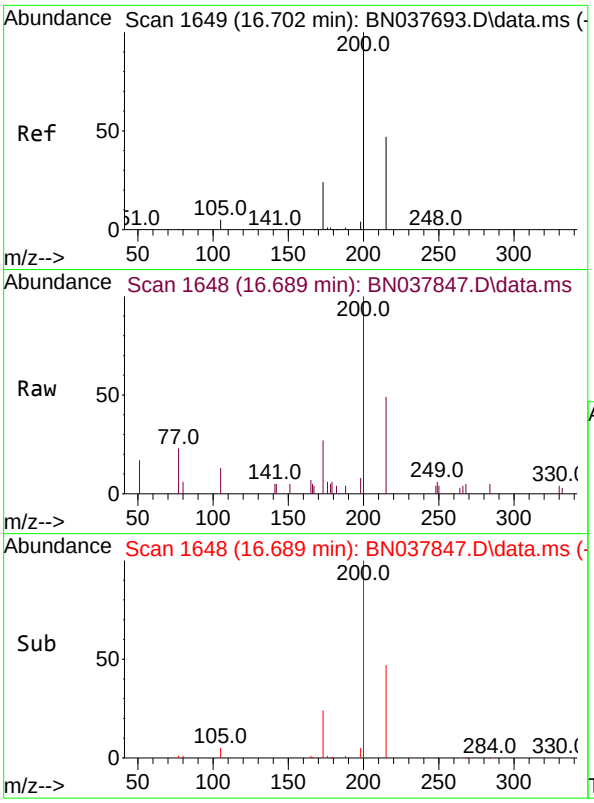




#22
Hexachlorobenzene
Concen: 0.407 ng
RT: 16.540 min Scan# 1636
Delta R.T. -0.013 min
Lab File: BN037847.D
Acq: 20 Sep 2025 11:39

Tgt Ion:284 Resp: 3993

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 284 | 100 | | |
| 142 | 38.4 | 30.9 | 46.3 |
| 249 | 28.9 | 24.8 | 37.2 |



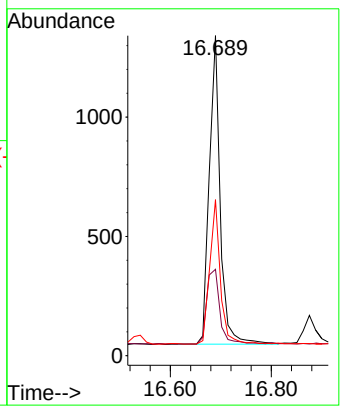


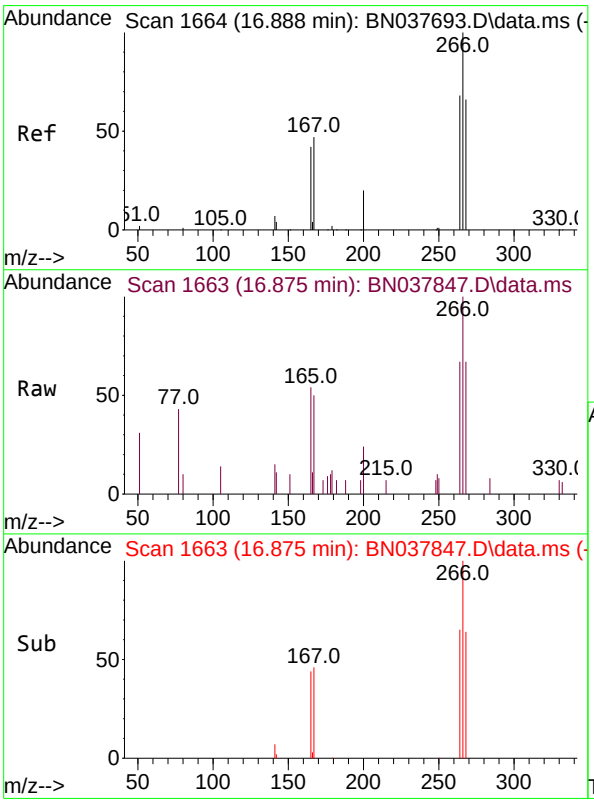

#23
Atrazine
Concen: 0.357 ng
RT: 16.689 min Scan# 1
Delta R.T. -0.013 min
Lab File: BN037847.D
Acq: 20 Sep 2025 11:39

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4EC

Tgt Ion:200 Resp: 1936

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 200 | 100 | | |
| 173 | 27.0 | 21.4 | 32.2 |
| 215 | 48.7 | 39.2 | 58.8 |

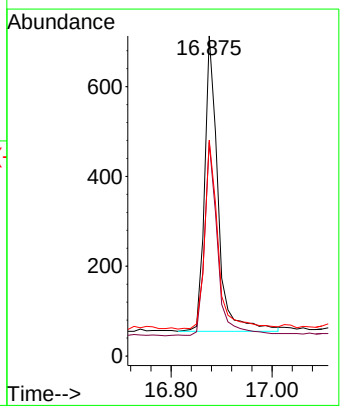


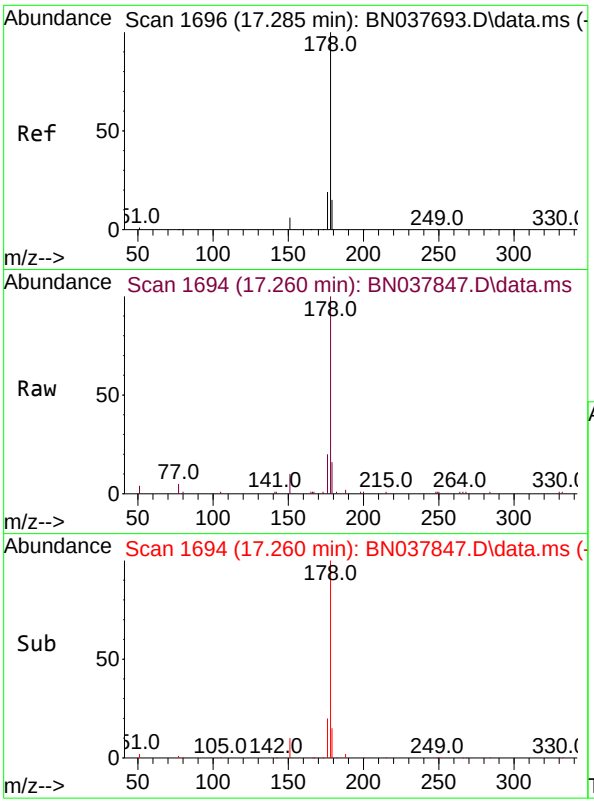




#24
Pentachlorophenol
Concen: 0.423 ng
RT: 16.875 min Scan# 1663
Delta R.T. -0.013 min
Lab File: BN037847.D
Acq: 20 Sep 2025 11:39

Tgt Ion:266 Resp: 1204

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 266 | 100 | | |
| 264 | 65.0 | 51.6 | 77.4 |
| 268 | 63.9 | 53.2 | 79.8 |



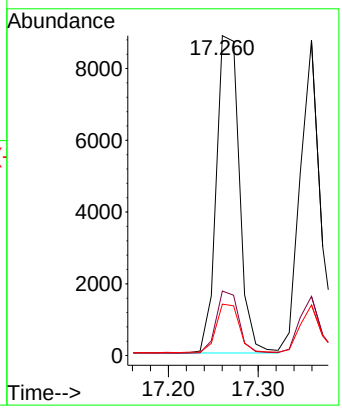


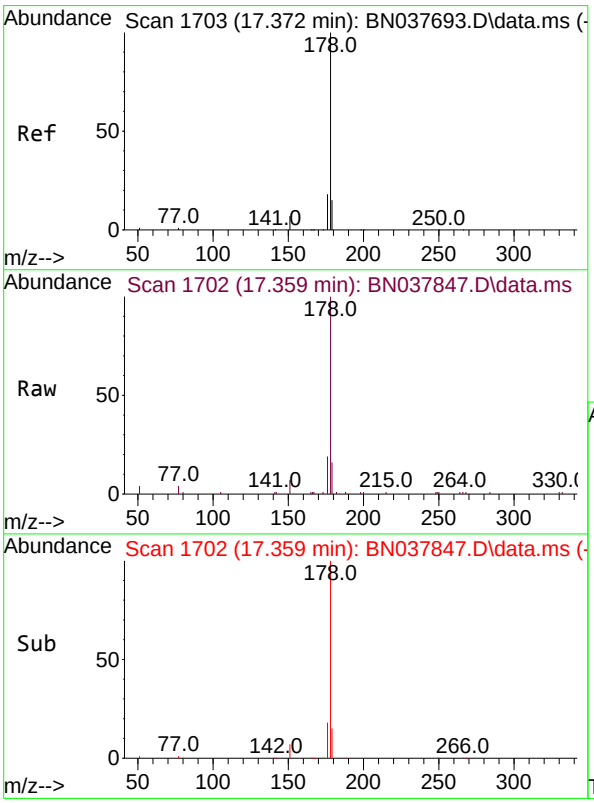

#25
Phenanthrene
Concen: 0.384 ng
RT: 17.260 min Scan# 1
Delta R.T. -0.025 min
Lab File: BN037847.D
Acq: 20 Sep 2025 11:39

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4EC

Tgt Ion:178 Resp: 15813

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 178 | 100 | | |
| 176 | 19.2 | 15.3 | 22.9 |
| 179 | 15.7 | 12.2 | 18.2 |

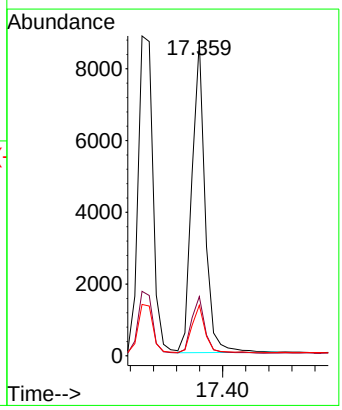


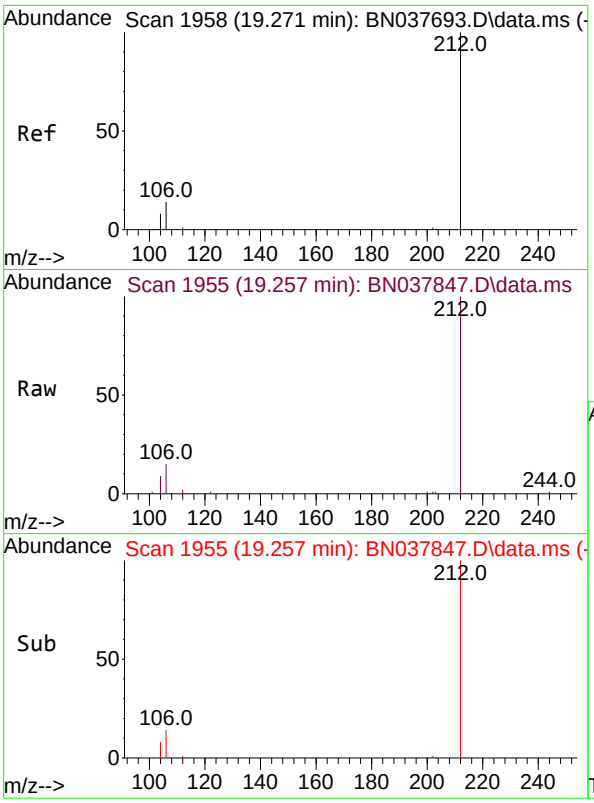




#26
Anthracene
Concen: 0.375 ng
RT: 17.359 min Scan# 1702
Delta R.T. -0.013 min
Lab File: BN037847.D
Acq: 20 Sep 2025 11:39

Tgt Ion:178 Resp: 13675

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 178 | 100 | | |
| 176 | 18.6 | 14.6 | 22.0 |
| 179 | 15.5 | 12.2 | 18.4 |



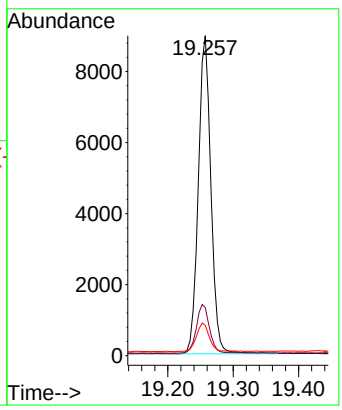


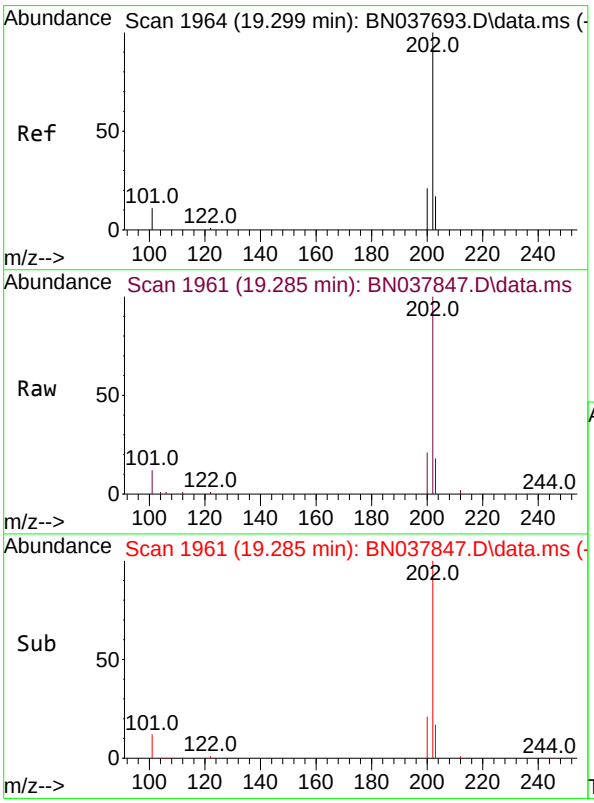

#27
Fluoranthene-d10
Concen: 0.365 ng
RT: 19.257 min Scan# 19
Delta R.T. -0.014 min
Lab File: BN037847.D
Acq: 20 Sep 2025 11:39

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4EC

Tgt Ion:212 Resp: 11964

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 212 | 100 | | |
| 106 | 15.8 | 12.2 | 18.2 |
| 104 | 9.3 | 6.9 | 10.3 |

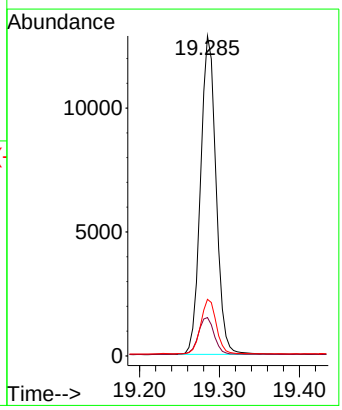


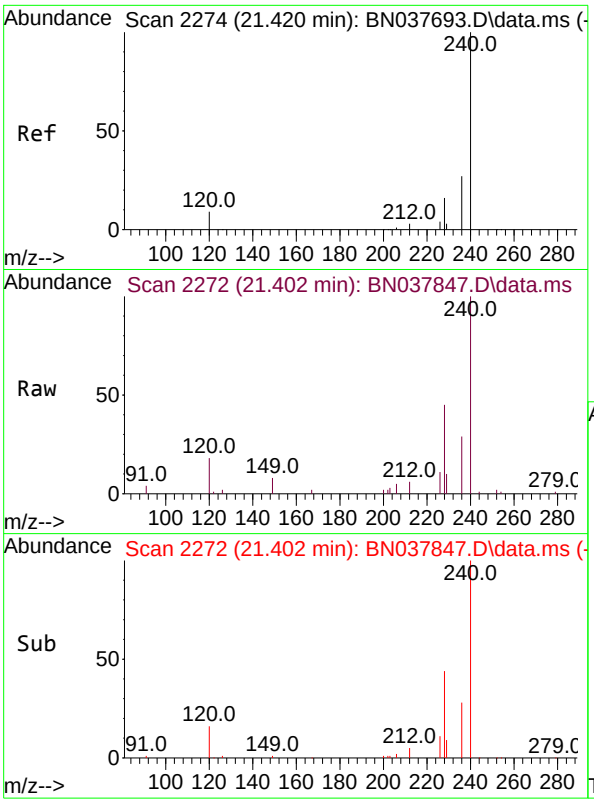




#28
Fluoranthene
Concen: 0.383 ng
RT: 19.285 min Scan# 1961
Delta R.T. -0.014 min
Lab File: BN037847.D
Acq: 20 Sep 2025 11:39

Tgt Ion:202 Resp: 17285

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 202 | 100 | | |
| 101 | 12.0 | 9.3 | 13.9 |
| 203 | 17.1 | 13.7 | 20.5 |



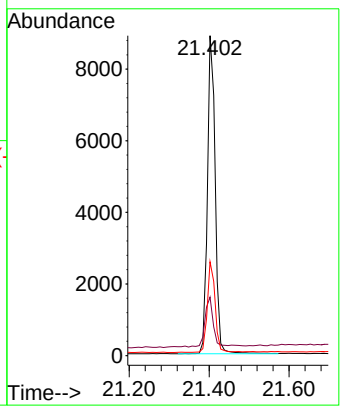


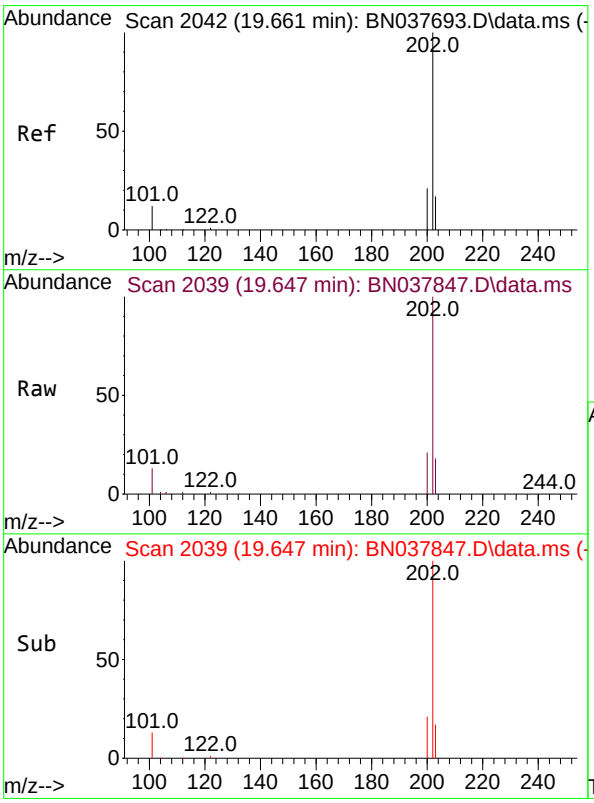

#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.402 min Scan# 2
Delta R.T. -0.018 min
Lab File: BN037847.D
Acq: 20 Sep 2025 11:39

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4EC

Tgt Ion:240 Resp: 12006

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 240 | 100 | | |
| 120 | 18.3 | 9.2 | 13.8# |
| 236 | 29.3 | 22.6 | 33.8 |

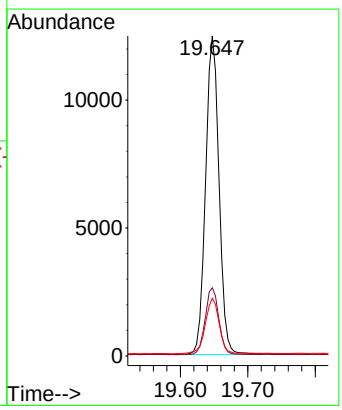


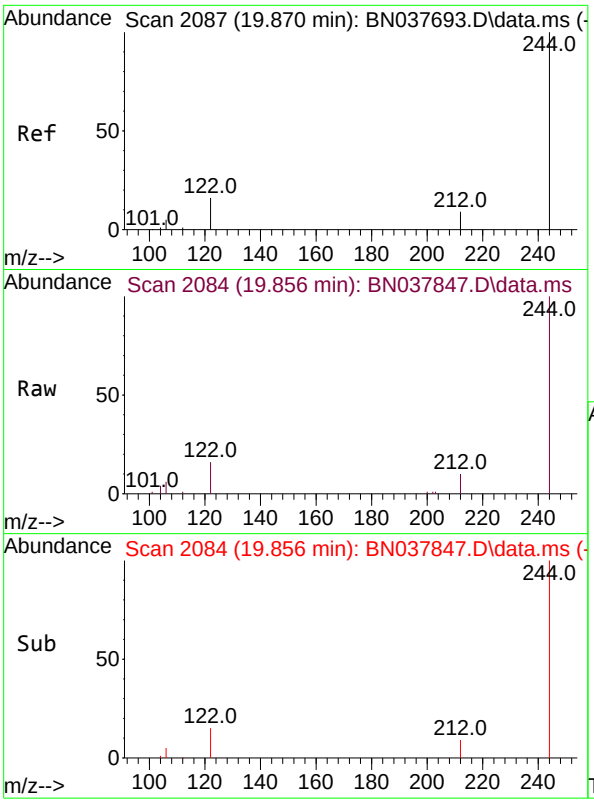




#30
Pyrene
Concen: 0.367 ng
RT: 19.647 min Scan# 2039
Delta R.T. -0.014 min
Lab File: BN037847.D
Acq: 20 Sep 2025 11:39

Tgt Ion:202 Resp: 17226

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 202 | 100 | | |
| 200 | 21.2 | 16.8 | 25.2 |
| 203 | 17.9 | 14.3 | 21.5 |



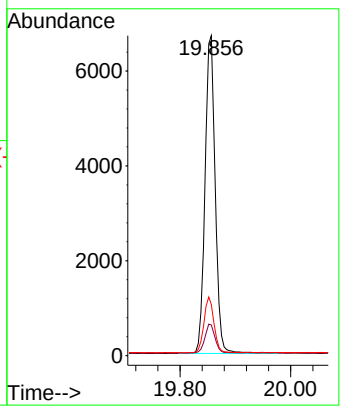


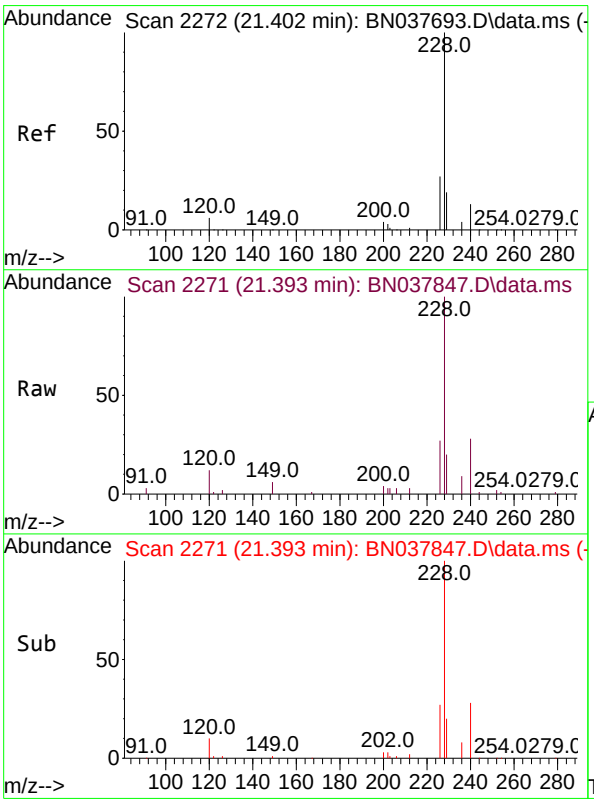

#31
Terphenyl-d14
Concen: 0.348 ng
RT: 19.856 min Scan# 2
Delta R.T. -0.014 min
Lab File: BN037847.D
Acq: 20 Sep 2025 11:39

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4EC

Tgt Ion:244 Resp: 8481

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 244 | 100 | | |
| 212 | 9.6 | 7.5 | 11.3 |
| 122 | 16.0 | 13.2 | 19.8 |

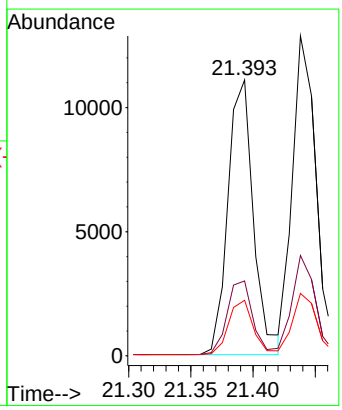


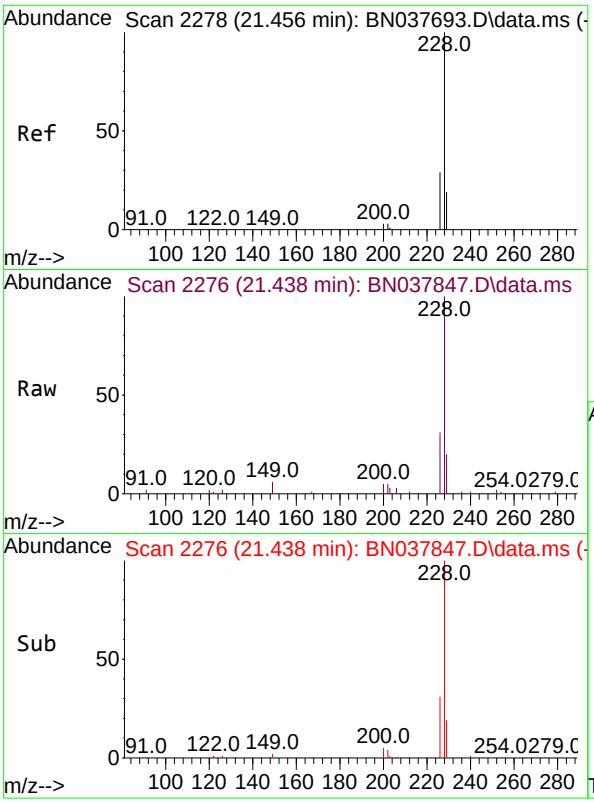




#32
Benzo(a)anthracene
Concen: 0.378 ng
RT: 21.393 min Scan# 2271
Delta R.T. -0.009 min
Lab File: BN037847.D
Acq: 20 Sep 2025 11:39

Tgt Ion:228 Resp: 15817

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 228 | 100 | | |
| 226 | 27.1 | 22.2 | 33.2 |
| 229 | 20.1 | 15.8 | 23.6 |



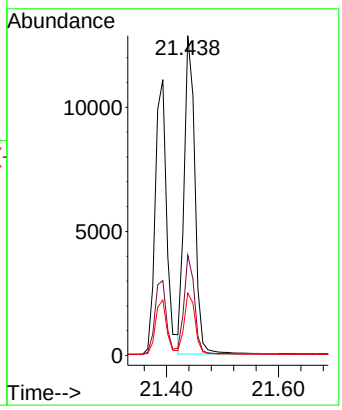


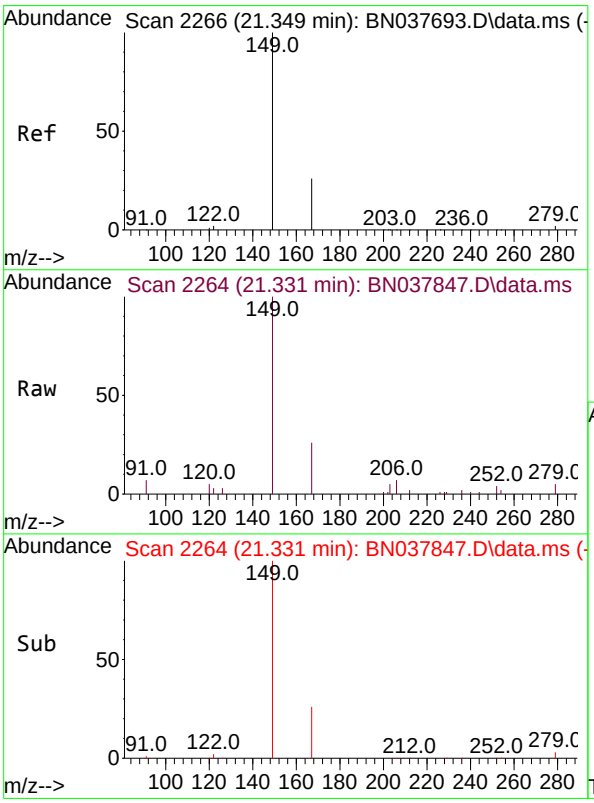

#33
Chrysene
Concen: 0.381 ng
RT: 21.438 min Scan# 2
Delta R.T. -0.018 min
Lab File: BN037847.D
Acq: 20 Sep 2025 11:39

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4EC

Tgt Ion:228 Resp: 17106

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 228 | 100 | | |
| 226 | 31.4 | 23.5 | 35.3 |
| 229 | 19.5 | 15.9 | 23.9 |

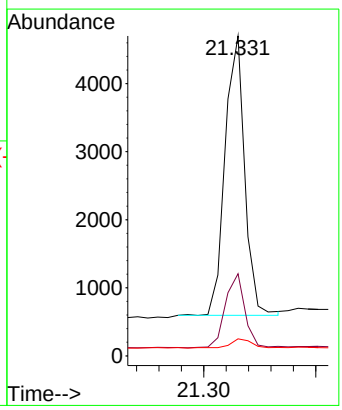


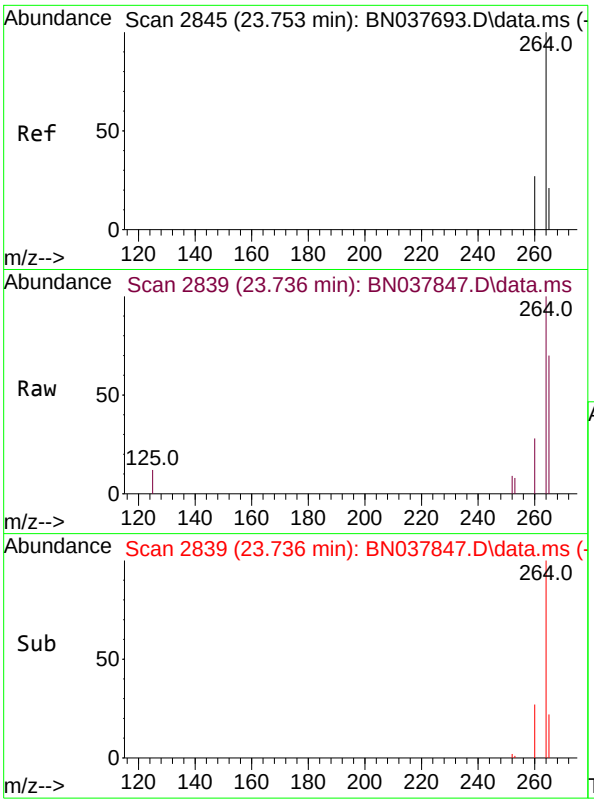




#34
Bis(2-ethylhexyl)phthalate
Concen: 0.402 ng
RT: 21.331 min Scan# 2264
Delta R.T. -0.018 min
Lab File: BN037847.D
Acq: 20 Sep 2025 11:39

Tgt Ion:149 Resp: 4990

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 149 | 100 | | |
| 167 | 26.8 | 20.8 | 31.2 |
| 279 | 3.7 | 3.3 | 4.9 |



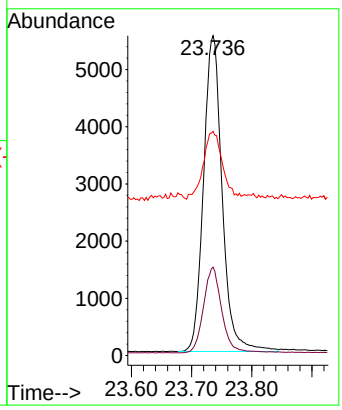


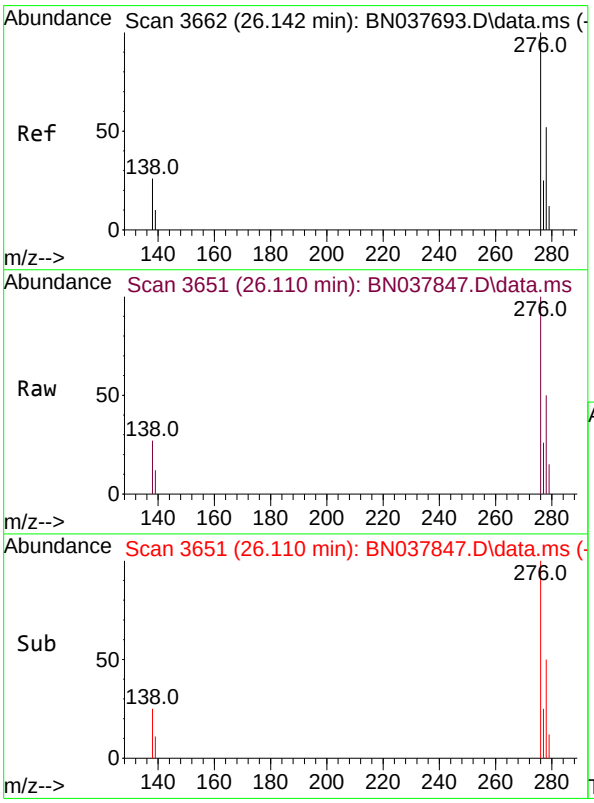

#35
Perylene-d12
Concen: 0.400 ng
RT: 23.736 min Scan# 28
Delta R.T. -0.018 min
Lab File: BN037847.D
Acq: 20 Sep 2025 11:39

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4EC

Tgt Ion:264 Resp: 11862

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 264 | 100 | | |
| 260 | 27.6 | 21.8 | 32.8 |
| 265 | 70.1 | 39.4 | 59.2# |

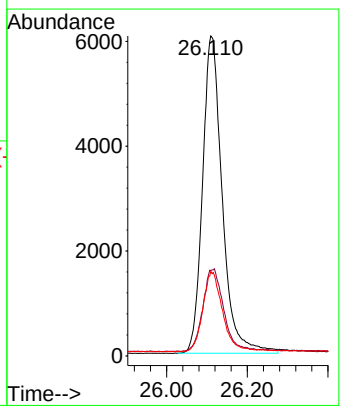


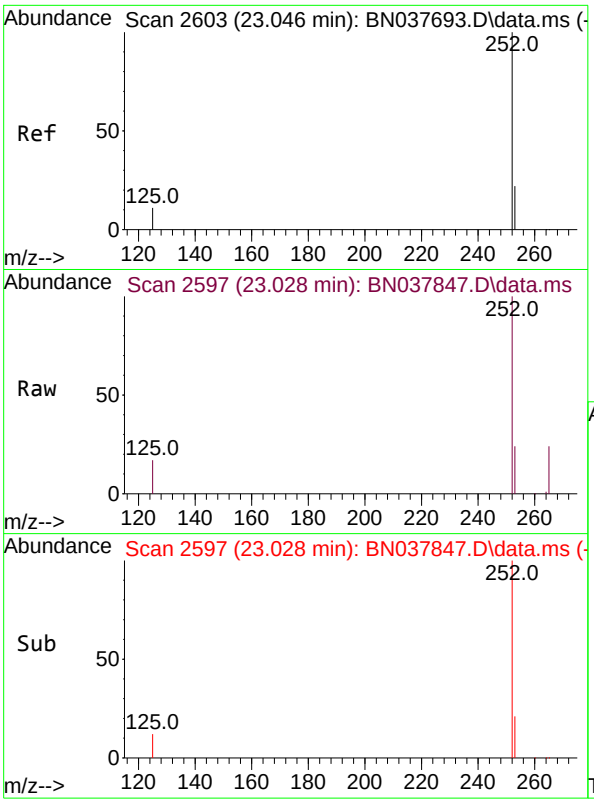




#36
Indeno(1,2,3-cd)pyrene
Concen: 0.413 ng
RT: 26.110 min Scan# 3651
Delta R.T. -0.032 min
Lab File: BN037847.D
Acq: 20 Sep 2025 11:39

Tgt Ion:276 Resp: 20571

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 276 | 100 | | |
| 138 | 27.2 | 21.9 | 32.9 |
| 277 | 25.0 | 20.1 | 30.1 |



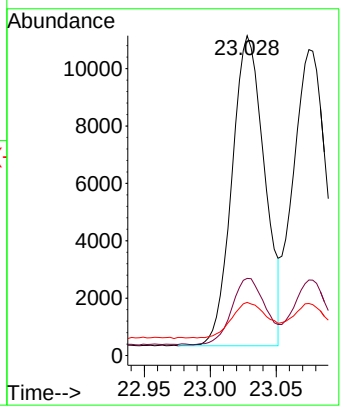


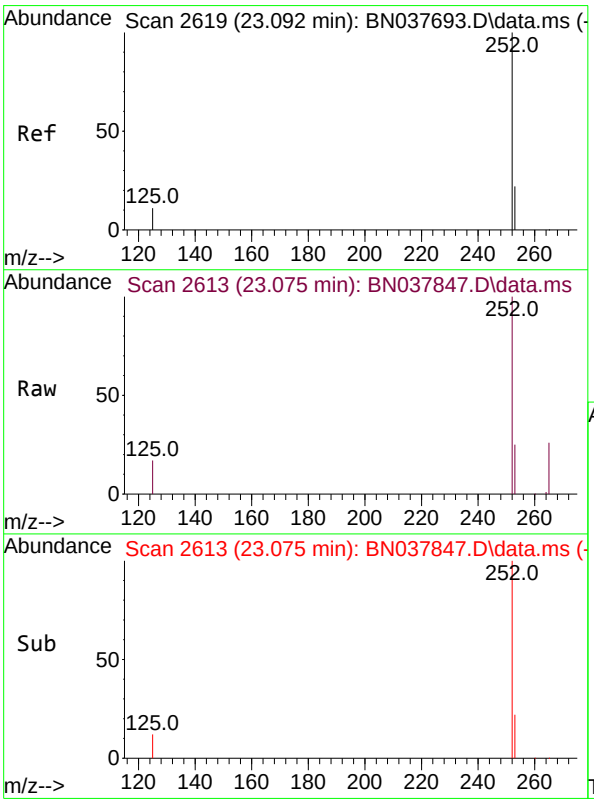

#37
Benzo(b)fluoranthene
Concen: 0.397 ng
RT: 23.028 min Scan# 2
Delta R.T. -0.018 min
Lab File: BN037847.D
Acq: 20 Sep 2025 11:39

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4EC

Tgt Ion:252 Resp: 18556

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 24.1 | 19.4 | 29.2 |
| 125 | 16.6 | 11.2 | 16.8 |

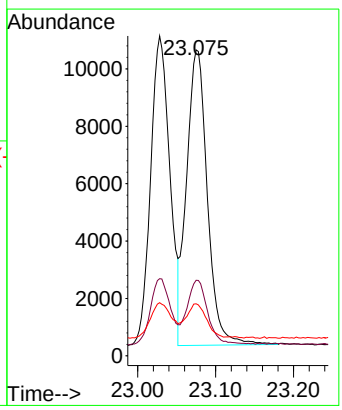


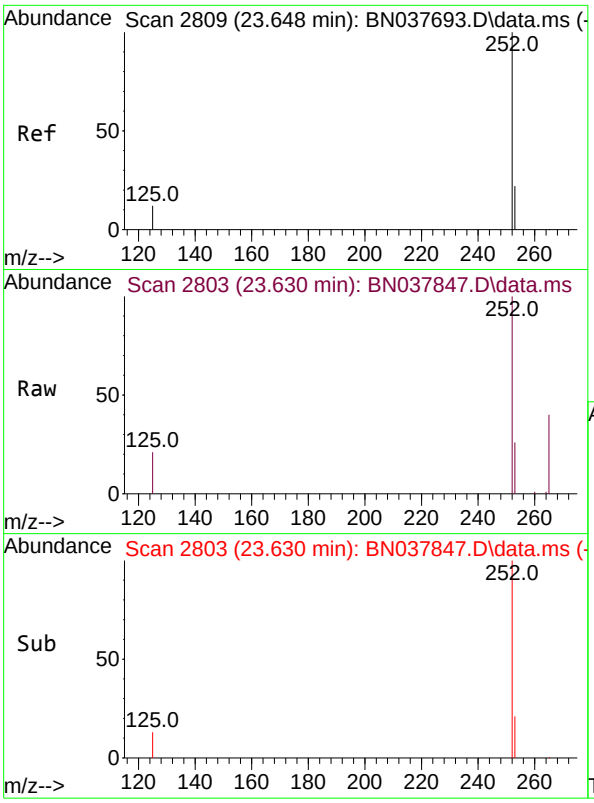




#38
Benzo(k)fluoranthene
Concen: 0.401 ng
RT: 23.075 min Scan# 2613
Delta R.T. -0.018 min
Lab File: BN037847.D
Acq: 20 Sep 2025 11:39

Tgt Ion:252 Resp: 19102

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 24.7 | 19.4 | 29.0 |
| 125 | 17.0 | 11.6 | 17.4 |



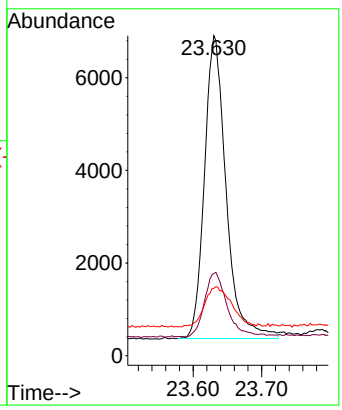


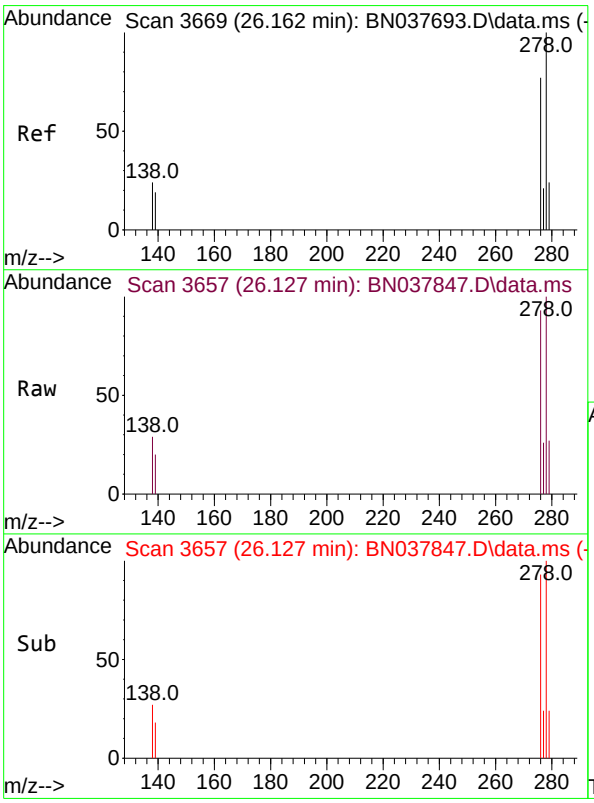

#39
Benzo(a)pyrene
Concen: 0.384 ng
RT: 23.630 min Scan# 28
Delta R.T. -0.018 min
Lab File: BN037847.D
Acq: 20 Sep 2025 11:39

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4EC

Tgt Ion:252 Resp: 14379

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 25.7 | 20.8 | 31.2 |
| 125 | 21.0 | 13.9 | 20.9# |

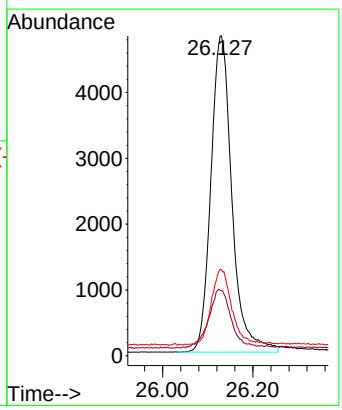


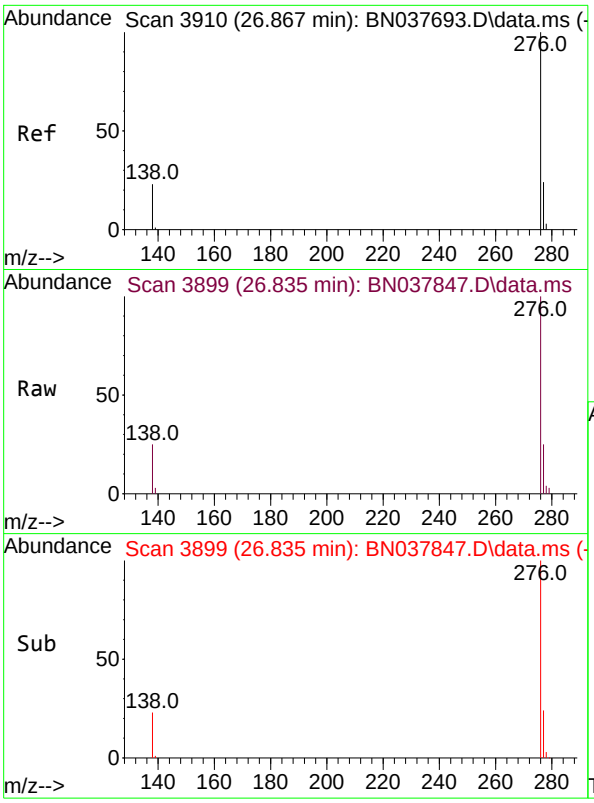




#40
Dibenzo(a,h)anthracene
Concen: 0.392 ng
RT: 26.127 min Scan# 3657
Delta R.T. -0.035 min
Lab File: BN037847.D
Acq: 20 Sep 2025 11:39

Tgt Ion:278 Resp: 15603

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 278 | 100 | | |
| 139 | 20.5 | 17.8 | 26.6 |
| 279 | 27.0 | 22.0 | 33.0 |



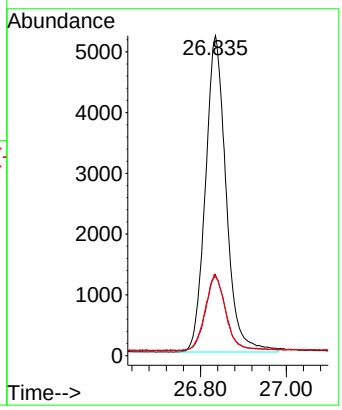



#41
Benzo(g,h,i)perylene
Concen: 0.390 ng
RT: 26.835 min Scan# 3
Delta R.T. -0.032 min
Lab File: BN037847.D
Acq: 20 Sep 2025 11:39

**Instrument :**
BNA_N
**ClientSampleId :**
SSTDCCC0.4EC

Tgt Ion:276 Resp: 17395

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 276 | 100 | | |
| 277 | 25.3 | 20.6 | 31.0 |
| 138 | 24.6 | 20.2 | 30.2 |



Sample Results: **BN037847.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN091925\
Data File : BN037847.D
Acq On : 20 Sep 2025 11:39
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 35 Sample Multiplier: 1

**Instrument :**
BNA_N
**LabSampleId :**
SSTDCCC0.4

Quant Time: Sep 22 00:38:02 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN091125.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Sep 11 14:20:01 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 | 123 | -0.01 |
| 2 | | 1,4-Dioxane | 0.417 | 0.423 | -1.4 | 123 | 0.00 |
| 3 | | n-Nitrosodimethylamine | 0.544 | 0.519 | 4.6 | 113 | 0.00 |
| 4 | S | 2-Fluorophenol | 0.918 | 0.876 | 4.6 | 121 | 0.00 |
| 5 | S | Phenol-d6 | 1.191 | 1.109 | 6.9 | 118 | 0.00 |
| 6 | | bis(2-Chloroethyl)ether | 1.064 | 1.029 | 3.3 | 118 | -0.01 |
| 7 | I | Naphthalene-d8 | 1.000 | 1.000 | 0.0 | 122 | -0.02 |
| 8 | S | Nitrobenzene-d5 | 0.293 | 0.288 | 1.7 | 124 | -0.02 |
| 9 | | Naphthalene | 1.093 | 1.051 | 3.8 | 120 | -0.01 |
| 10 | | Hexachlorobutadiene | 0.198 | 0.188 | 5.1 | 116 | -0.02 |
| 11 | SURR | 2-Methylnaphthalene-d10 | 0.530 | 0.470 | 11.3 | 115 | -0.02 |
| 12 | | 2-Methylnaphthalene | 0.676 | 0.625 | 7.5 | 116 | -0.02 |
| 13 | I | Acenaphthene-d10 | 1.000 | 1.000 | 0.0 | 117 | -0.02 |
| 14 | S | 2,4,6-Tribromophenol | 0.104 | 0.123 | -18.3 | 143 | -0.01 |
| 15 | S | 2-Fluorobiphenyl | 1.673 | 1.607 | 3.9 | 114 | -0.01 |
| 16 | | Acenaphthylene | 1.834 | 1.674 | 8.7 | 110 | -0.01 |
| 17 | | Acenaphthene | 1.240 | 1.169 | 5.7 | 112 | -0.02 |
| 18 | | Fluorene | 1.502 | 1.367 | 9.0 | 111 | -0.01 |
| 19 | I | Phenanthrene-d10 | 1.000 | 1.000 | 0.0 | 116 | -0.01 |
| 20 | | 4,6-Dinitro-2-methylphenol | 0.037 | 0.030 | 18.9 | 106 | -0.01 |
| 21 | | 4-Bromophenyl-phenylether | 0.261 | 0.237 | 9.2 | 109 | -0.02 |
| 22 | | Hexachlorobenzene | 0.300 | 0.305 | -1.7 | 121 | -0.01 |
| 23 | | Atrazine | 0.166 | 0.148 | 10.8 | 113 | -0.01 |
| 24 | | Pentachlorophenol | 0.087 | 0.092 | -5.7 | 144 | -0.01 |
| 25 | | Phenanthrene | 1.259 | 1.210 | 3.9 | 115 | -0.02 |
| 26 | | Anthracene | 1.116 | 1.046 | 6.3 | 113 | -0.01 |
| 27 | SURR | Fluoranthene-d10 | 1.004 | 0.915 | 8.9 | 114 | -0.01 |
| 28 | | Fluoranthene | 1.381 | 1.322 | 4.3 | 117 | -0.01 |
| 29 | I | Chrysene-d12 | 1.000 | 1.000 | 0.0 | 128 | -0.02 |
| 30 | | Pyrene | 1.566 | 1.435 | 8.4 | 118 | -0.01 |
| 31 | S | Terphenyl-d14 | 0.812 | 0.706 | 13.1 | 113 | -0.01 |
| 32 | | Benzo(a)anthracene | 1.395 | 1.317 | 5.6 | 125 | 0.00 |
| 33 | | Chrysene | 1.496 | 1.425 | 4.7 | 122 | -0.02 |
| 34 | | Bis(2-ethylhexyl)phthalate | 0.414 | 0.416 | -0.5 | 142 | -0.02 |
| 35 | I | Perylene-d12 | 1.000 | 1.000 | 0.0 | 132 | -0.02 |
| 36 | | Indeno(1,2,3-cd)pyrene | 1.681 | 1.734 | -3.2 | 149 | -0.03 |
| 37 | | Benzo(b)fluoranthene | 1.575 | 1.564 | 0.7 | 133 | -0.02 |
| 38 | | Benzo(k)fluoranthene | 1.606 | 1.610 | -0.2 | 140 | -0.02 |
| 39 | C | Benzo(a)pyrene | 1.261 | 1.212 | 3.9 | 134 | -0.02 |
| 40 | | Dibenzo(a,h)anthracene | 1.342 | 1.315 | 2.0 | 144 | -0.04 |
| 41 | | Benzo(g,h,i)perylene | 1.506 | 1.466 | 2.7 | 134 | -0.03 |

(#) = Out of Range SPCC's out = 0 CCC's out = 0

**Instrument :**
BNA_N
**LabSampleId :**
SSTDCCC0.4

Sample Results: **BN037847.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN091925\
Data File : BN037847.D
Acq On : 20 Sep 2025 11:39
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 35 Sample Multiplier: 1

**Instrument :**
BNA_N
**LabSampleId :**
SSTDCCC0.4

Quant Time: Sep 22 00:38:02 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN091125.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Sep 11 14:20:01 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 | 123 | -0.01 |
| 2 | | 1,4-Dioxane | 0.400 | 0.406 | -1.5 | 123 | 0.00 |
| 3 | | n-Nitrosodimethylamine | 0.400 | 0.381 | 4.8 | 113 | 0.00 |
| 4 | S | 2-Fluorophenol | 0.400 | 0.381 | 4.8 | 121 | 0.00 |
| 5 | S | Phenol-d6 | 0.400 | 0.373 | 6.8 | 118 | 0.00 |
| 6 | | bis(2-Chloroethyl)ether | 0.400 | 0.387 | 3.3 | 118 | -0.01 |
| 7 | I | Naphthalene-d8 | 0.400 | 0.400 | 0.0 | 122 | -0.02 |
| 8 | S | Nitrobenzene-d5 | 0.400 | 0.394 | 1.5 | 124 | -0.02 |
| 9 | | Naphthalene | 0.400 | 0.384 | 4.0 | 120 | -0.01 |
| 10 | | Hexachlorobutadiene | 0.400 | 0.380 | 5.0 | 116 | -0.02 |
| 11 | SURR | 2-Methylnaphthalene-d10 | 0.400 | 0.355 | 11.3 | 115 | -0.02 |
| 12 | | 2-Methylnaphthalene | 0.400 | 0.369 | 7.8 | 116 | -0.02 |
| 13 | I | Acenaphthene-d10 | 0.400 | 0.400 | 0.0 | 117 | -0.02 |
| 14 | S | 2,4,6-Tribromophenol | 0.400 | 0.472 | -18.0 | 143 | -0.01 |
| 15 | S | 2-Fluorobiphenyl | 0.400 | 0.384 | 4.0 | 114 | -0.01 |
| 16 | | Acenaphthylene | 0.400 | 0.365 | 8.8 | 110 | -0.01 |
| 17 | | Acenaphthene | 0.400 | 0.377 | 5.8 | 112 | -0.02 |
| 18 | | Fluorene | 0.400 | 0.364 | 9.0 | 111 | -0.01 |
| 19 | I | Phenanthrene-d10 | 0.400 | 0.400 | 0.0 | 116 | -0.01 |
| 20 | | 4,6-Dinitro-2-methylphenol | 0.400 | 0.327 | 18.3 | 106 | -0.01 |
| 21 | | 4-Bromophenyl-phenylether | 0.400 | 0.363 | 9.3 | 109 | -0.02 |
| 22 | | Hexachlorobenzene | 0.400 | 0.407 | -1.7 | 121 | -0.01 |
| 23 | | Atrazine | 0.400 | 0.357 | 10.8 | 113 | -0.01 |
| 24 | | Pentachlorophenol | 0.400 | 0.423 | -5.7 | 144 | -0.01 |
| 25 | | Phenanthrene | 0.400 | 0.384 | 4.0 | 115 | -0.02 |
| 26 | | Anthracene | 0.400 | 0.375 | 6.3 | 113 | -0.01 |
| 27 | SURR | Fluoranthene-d10 | 0.400 | 0.365 | 8.8 | 114 | -0.01 |
| 28 | | Fluoranthene | 0.400 | 0.383 | 4.3 | 117 | -0.01 |
| 29 | I | Chrysene-d12 | 0.400 | 0.400 | 0.0 | 128 | -0.02 |
| 30 | | Pyrene | 0.400 | 0.367 | 8.3 | 118 | -0.01 |
| 31 | S | Terphenyl-d14 | 0.400 | 0.348 | 13.0 | 113 | -0.01 |
| 32 | | Benzo(a)anthracene | 0.400 | 0.378 | 5.5 | 125 | 0.00 |
| 33 | | Chrysene | 0.400 | 0.381 | 4.8 | 122 | -0.02 |
| 34 | | Bis(2-ethylhexyl)phthalate | 0.400 | 0.402 | -0.5 | 142 | -0.02 |
| 35 | I | Perylene-d12 | 0.400 | 0.400 | 0.0 | 132 | -0.02 |
| 36 | | Indeno(1,2,3-cd)pyrene | 0.400 | 0.413 | -3.2 | 149 | -0.03 |
| 37 | | Benzo(b)fluoranthene | 0.400 | 0.397 | 0.8 | 133 | -0.02 |
| 38 | | Benzo(k)fluoranthene | 0.400 | 0.401 | -0.3 | 140 | -0.02 |
| 39 | C | Benzo(a)pyrene | 0.400 | 0.384 | 4.0 | 134 | -0.02 |
| 40 | | Dibenzo(a,h)anthracene | 0.400 | 0.392 | 2.0 | 144 | -0.04 |
| 41 | | Benzo(g,h,i)perylene | 0.400 | 0.390 | 2.5 | 134 | -0.03 |

(#) = Out of Range SPCC's out = 0 CCC's out = 0

**Instrument :**
BNA_N
**LabSampleId :**
SSTDCCC0.4

# QC SAMPLE DATA

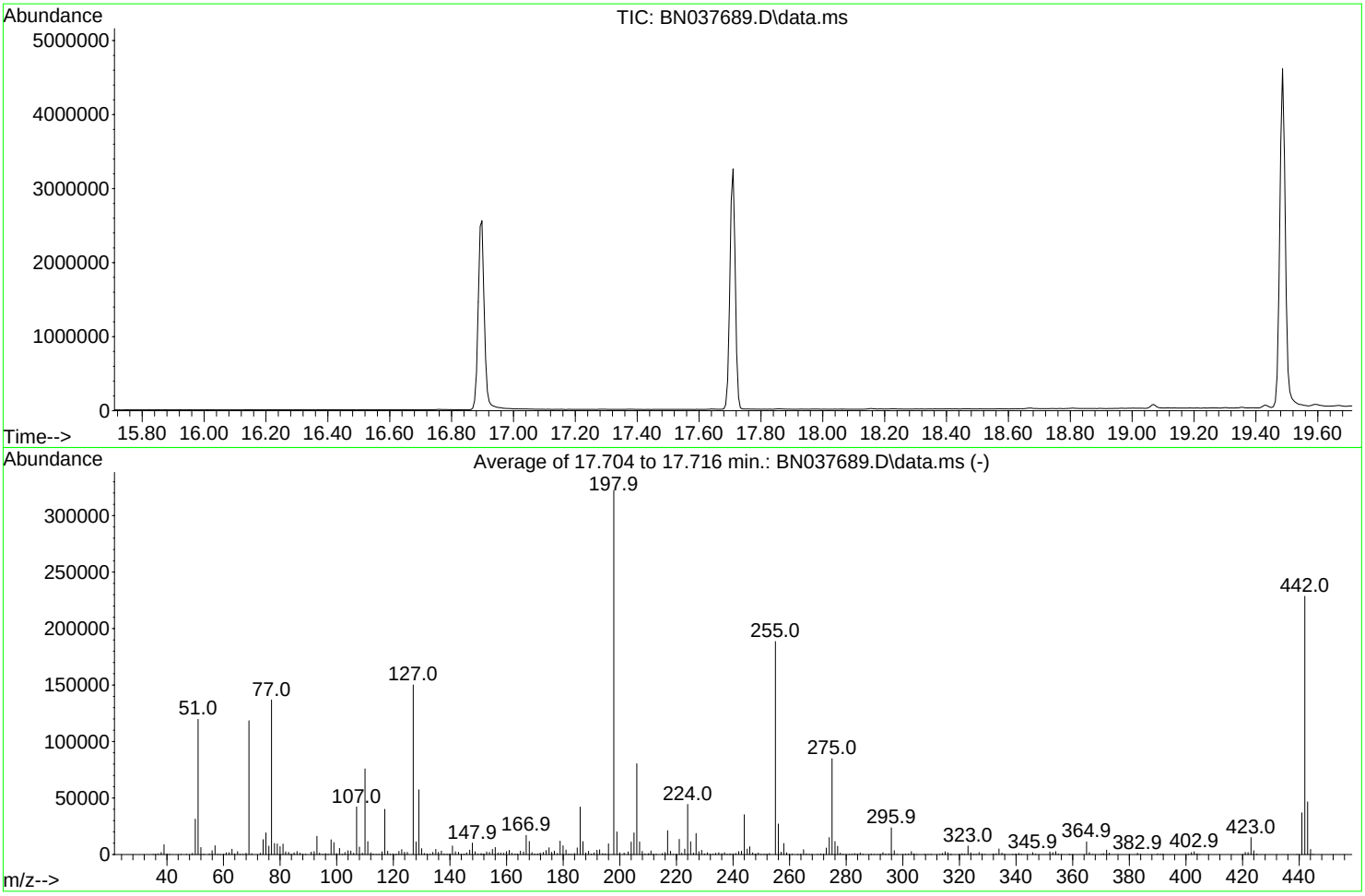
Sample Results: **BN037689.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN091125\
Data File : BN037689.D
Acq On : 11 Sep 2025 07:54
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-BN091125.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
Last Update : Thu Sep 11 14:20:01 2025




AutoFind: Scans 2485, 2486, 2487; Background Corrected with Scan 2478

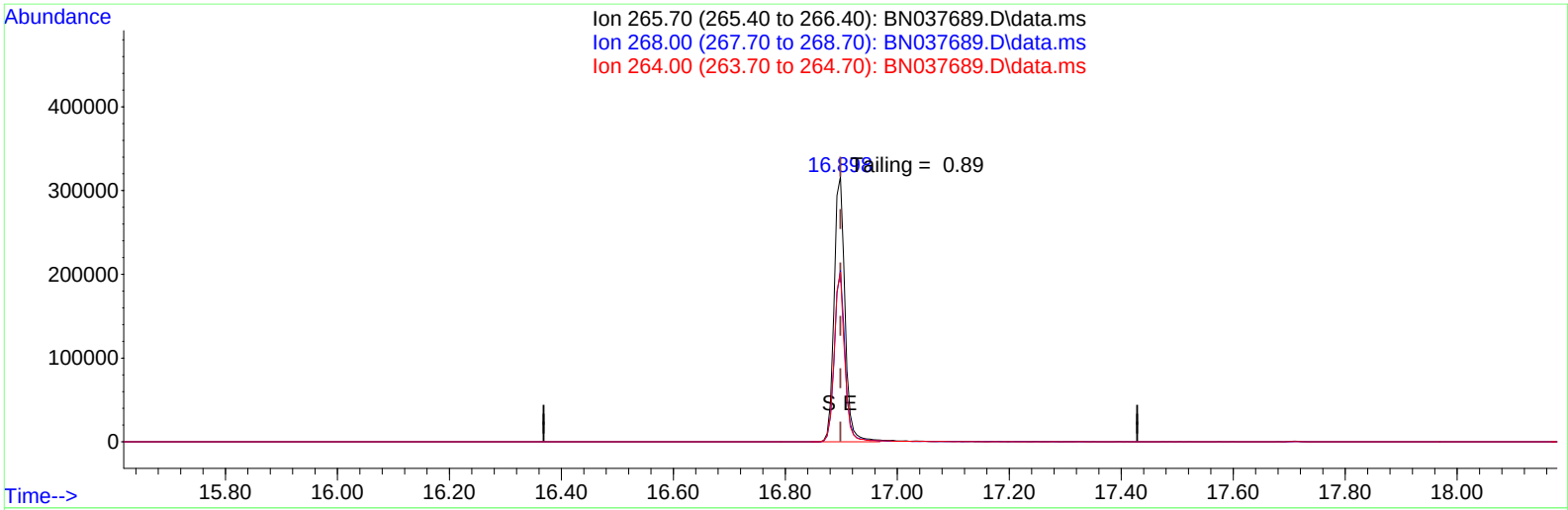
| Target Mass | Rel. to Mass | Lower Limit% | Upper Limit% | Rel. Abn% | Raw Abn | Result Pass/Fail |
|---|---|---|---|---|---|---|
| 68 | 69 | 0.00 | 2 | 1.0 | 1148 | PASS |
| 69 | 69 | 100 | 100 | 100.0 | 118397 | PASS |
| 70 | 69 | 0.00 | 2 | 0.6 | 697 | PASS |
| 197 | 198 | 0.00 | 2 | 0.0 | 0 | PASS |
| 198 | 198 | 100 | 100 | 100.0 | 322261 | PASS |
| 199 | 198 | 5 | 9 | 6.2 | 20092 | PASS |
| 365 | 198 | 1 | 100 | 3.5 | 11183 | PASS |
| 441 | 443 | 0.01 | 150 | 79.2 | 36909 | PASS |
| 442 | 442 | 100 | 100 | 100.0 | 228651 | PASS |
| 443 | 442 | 15 | 24 | 20.4 | 46619 | PASS |

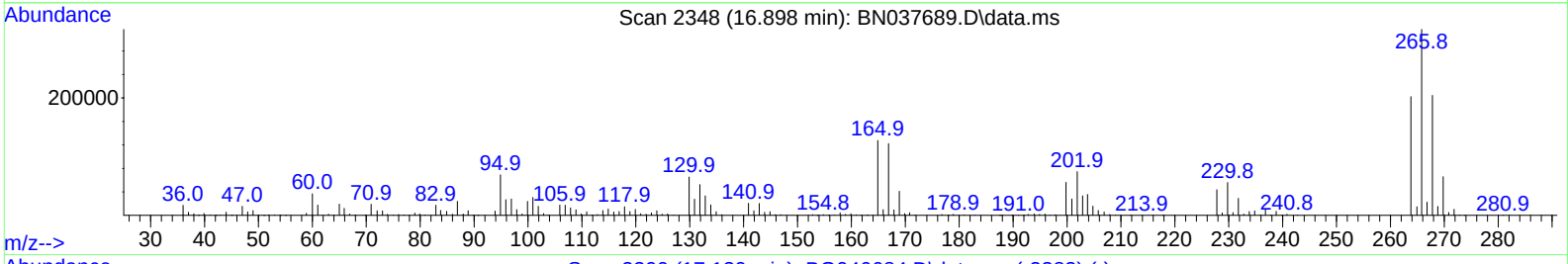
Sample Results: **BN037689.D**

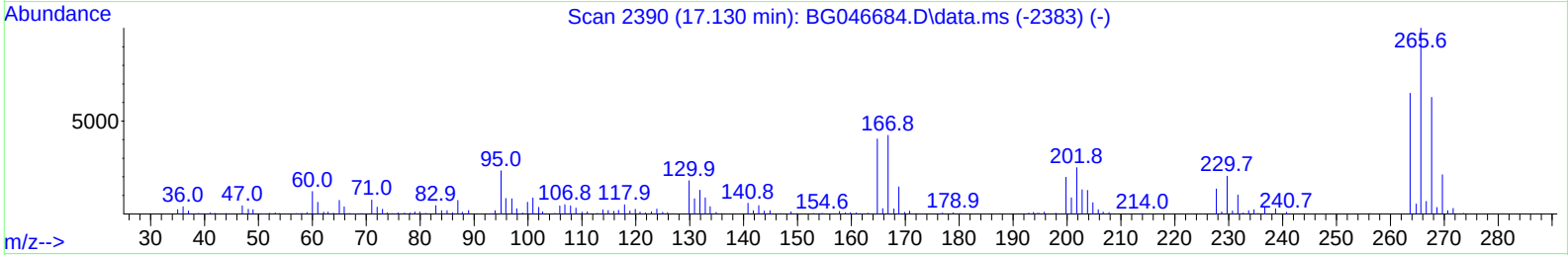
Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN091125\
Data File : BN037689.D
Acq On : 11 Sep 2025 07:54
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

**Instrument :**
BNA_N
**ClientSampleId :**
DFTPP

Quant Time: Sep 11 13:15:02 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270E-Tune.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Sep 11 13:14:53 2025
Response via : Initial Calibration




TIC: BN037689.D\data.ms

**(70) Pentachlorophenol (C)**

**16.898min ( 0.000) 277.63 ng**

**response 430126**

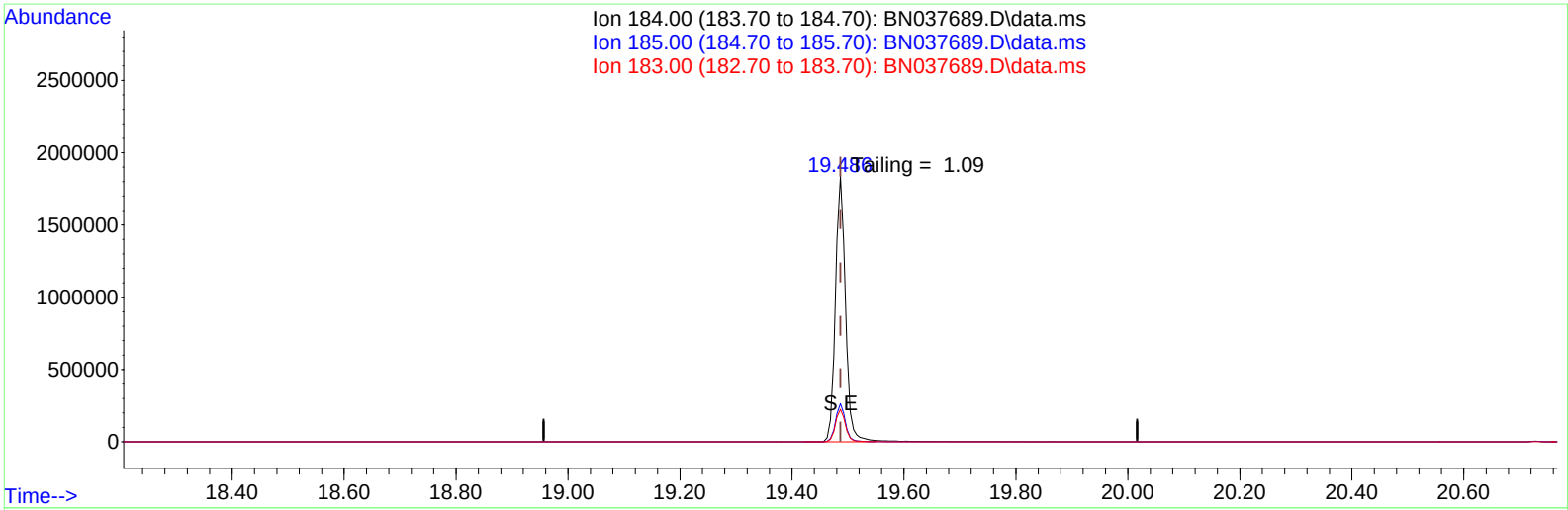
| Ion | Exp% | Act% |
|---|---|---|
| 265.70 | 100.00 | 100.00 |
| 268.00 | 64.50 | 64.54 |
| 264.00 | 63.90 | 63.87 |
| 0.00 | 0.00 | 0.00 |

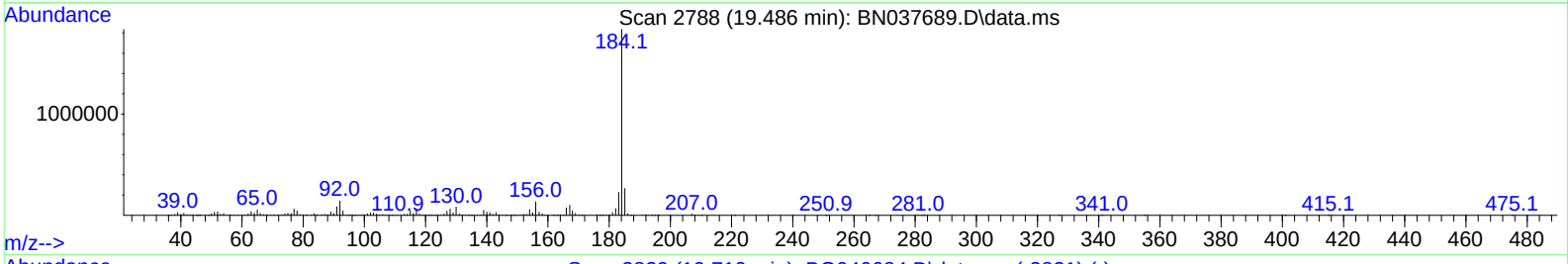
Sample Results: **BN037689.D**

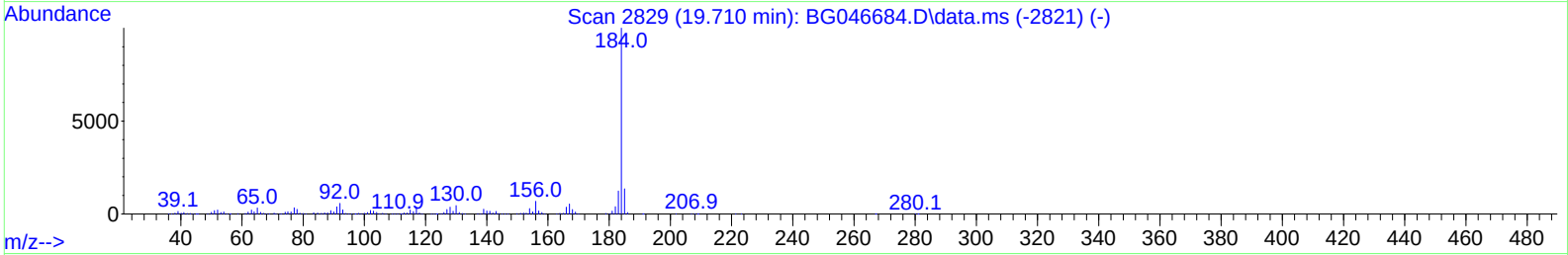
Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN091125\
Data File : BN037689.D
Acq On : 11 Sep 2025 07:54
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

**Instrument :**
BNA_N
**ClientSampleId :**
DFTPP

Quant Time: Sep 11 13:15:02 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270E-Tune.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Sep 11 13:14:53 2025
Response via : Initial Calibration




TIC: BN037689.D\data.ms

**(77) Benzidine**

**19.486min ( 0.000) 64237.37 ng**

**response 2281946**

| Ion | Exp% | Act% |
|---|---|---|
| 184.00 | 100.00 | 100.00 |
| 185.00 | 14.40 | 14.43 |
| 183.00 | 12.30 | 12.32 |
| 0.00 | 0.00 | 0.00 |

## DDT Breakdown

| Date | Instrument Name | DFTPP Data File |
|---|---|---|
| 9/11/2025 | BNA_N | BN037689.D |
| | | |
| | | |
| **Compound Name** | **Response** | **Retention Time** |
| | | |
| DDT | 1069016 | 20.727 |
| DDD | 7982 | 20.286 |
| DDE | 769 | 19.78 |
| | | |
| | | |
| **SUM(DDD+DDE)** | **SUM(DDT+DDD+DDE)** | **% Breakdown Of DDT** |
| | | |
| 8751 | 1077767 | 0.81 |
| | | |

Instrument :
BNA_N
ClientSampleId :
DFTPP

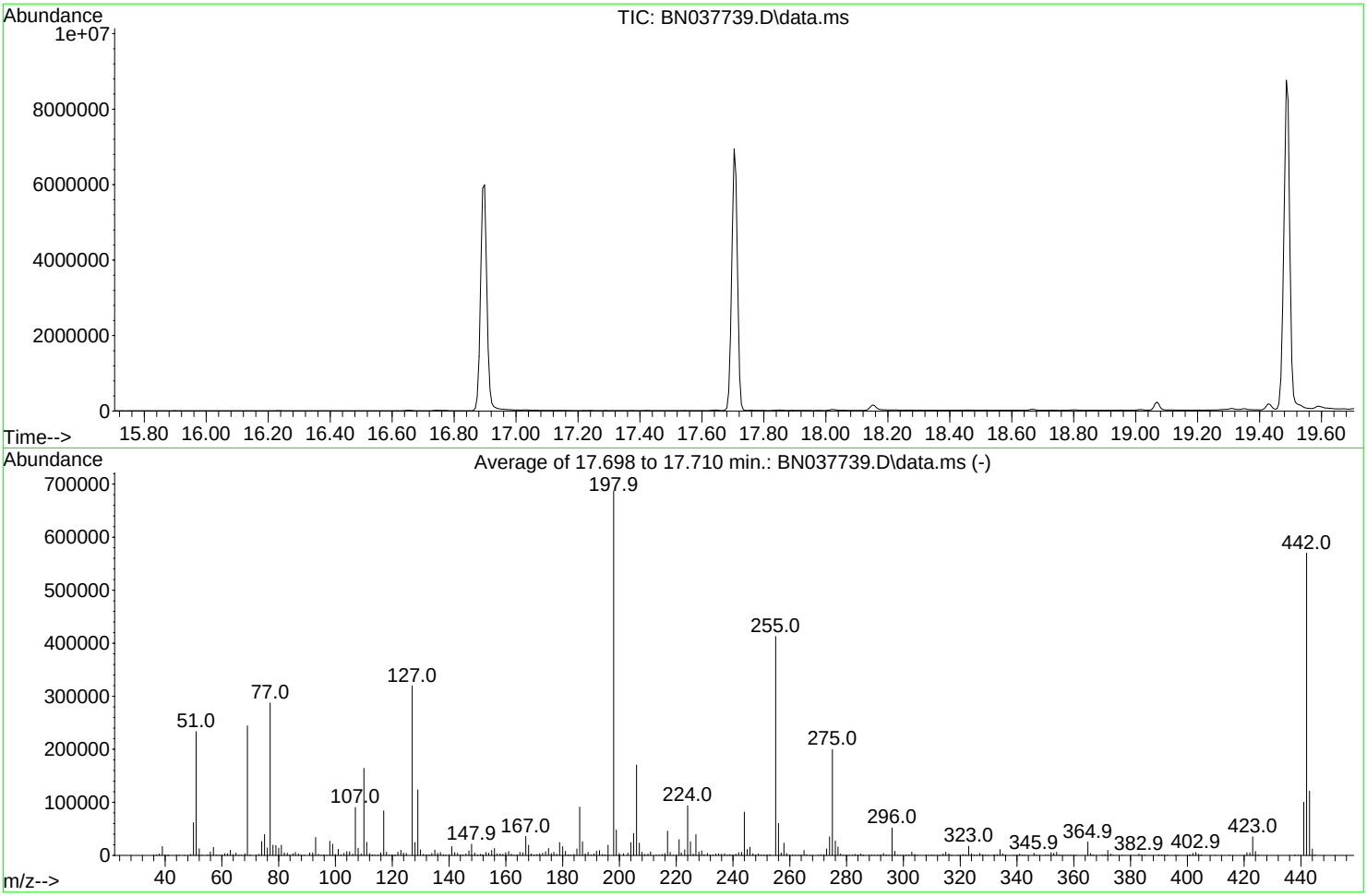
Sample Results: **BN037739.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN091725\
Data File : BN037739.D
Acq On : 17 Sep 2025 10:46
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-BN091125.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
Last Update : Thu Sep 11 14:20:01 2025




AutoFind: Scans 2484, 2485, 2486; Background Corrected with Scan 2477

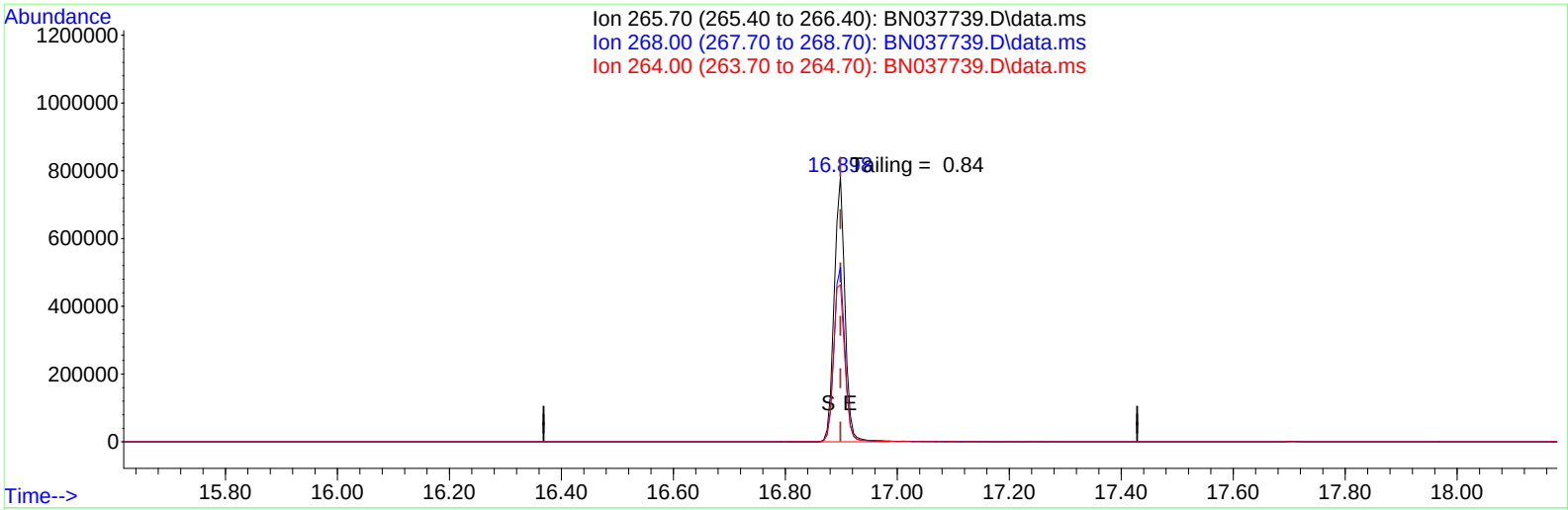
| Target Mass | Rel. to Mass | Lower Limit% | Upper Limit% | Rel. Abn% | Raw Abn | Result Pass/Fail |
|---|---|---|---|---|---|---|
| 68 | 69 | 0.00 | 2 | 1.3 | 3107 | PASS |
| 69 | 69 | 100 | 100 | 100.0 | 244250 | PASS |
| 70 | 69 | 0.00 | 2 | 0.4 | 1067 | PASS |
| 197 | 198 | 0.00 | 2 | 0.0 | 0 | PASS |
| 198 | 198 | 100 | 100 | 100.0 | 687061 | PASS |
| 199 | 198 | 5 | 9 | 6.9 | 47709 | PASS |
| 365 | 198 | 1 | 100 | 3.7 | 25139 | PASS |
| 441 | 443 | 0.01 | 150 | 82.6 | 100245 | PASS |
| 442 | 442 | 100 | 100 | 100.0 | 570155 | PASS |
| 443 | 442 | 15 | 24 | 21.3 | 121381 | PASS |

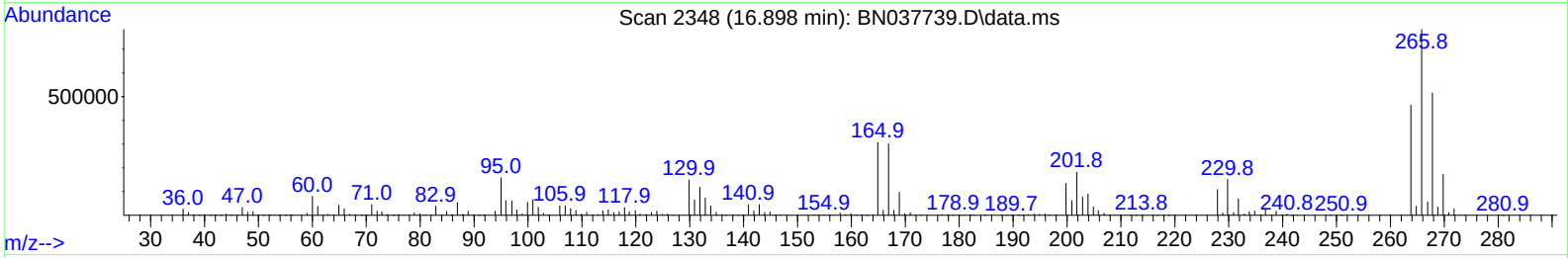
Sample Results: **BN037739.D**

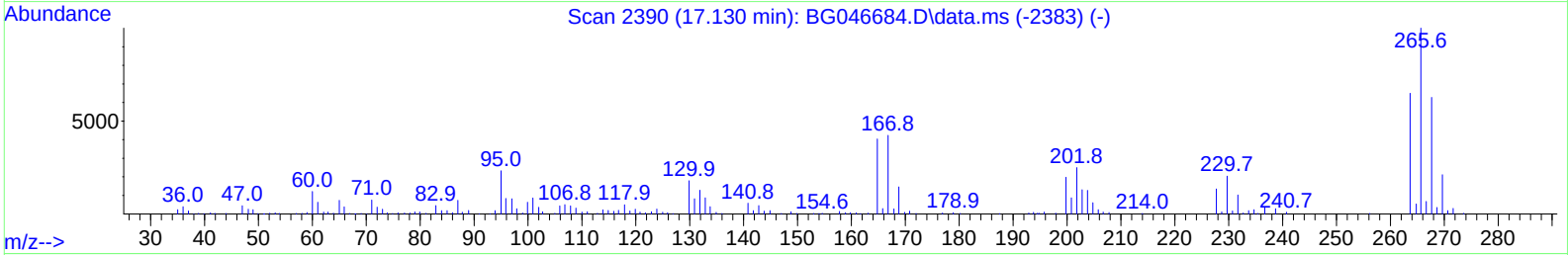
Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN091725\
Data File : BN037739.D
Acq On : 17 Sep 2025 10:46
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

**Instrument :**
BNA_N
**ClientSampleId :**
DFTPP

Quant Time: Sep 17 12:56:01 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270E-Tune.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Sep 17 12:55:52 2025
Response via : Initial Calibration




TIC: BN037739.D\data.ms

**(70) Pentachlorophenol (C)**

**16.898min ( 0.000) 620.62 ng**

**response 1035710**

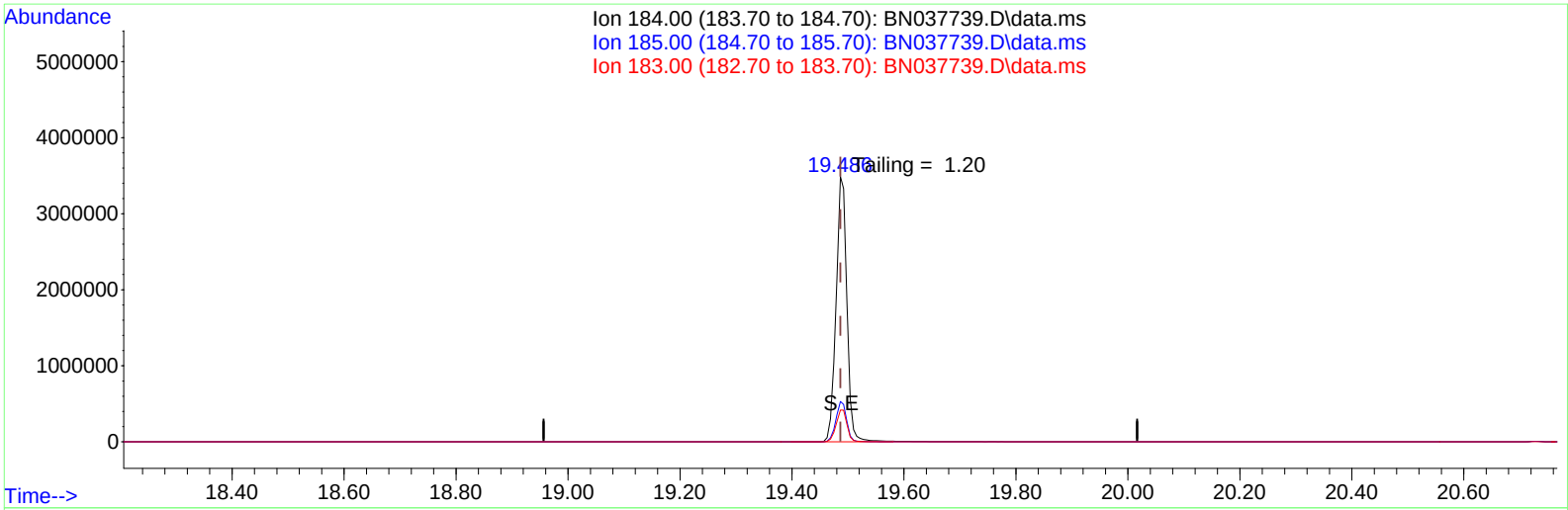
| Ion | Exp% | Act% |
|---|---|---|
| 265.70 | 100.00 | 100.00 |
| 268.00 | 62.20 | 65.84 |
| 264.00 | 61.60 | 59.28 |
| 0.00 | 0.00 | 0.00 |

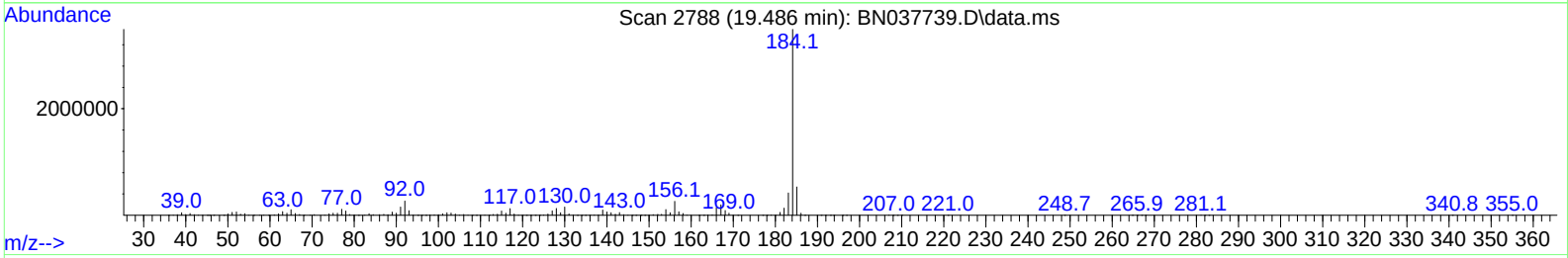
Sample Results: **BN037739.D**

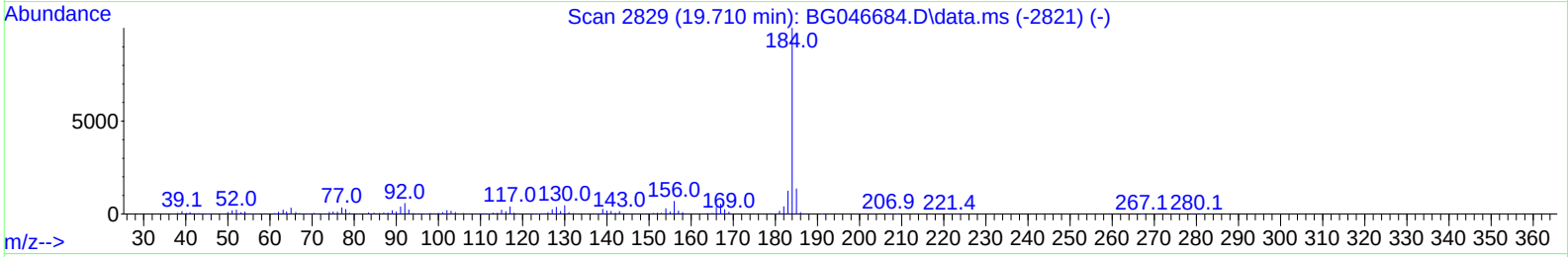
Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN091725\
Data File : BN037739.D
Acq On : 17 Sep 2025 10:46
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

**Instrument :**
BNA_N
**ClientSampleId :**
DFTPP

Quant Time: Sep 17 12:56:01 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270E-Tune.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Sep 17 12:55:52 2025
Response via : Initial Calibration




TIC: BN037739.D\data.ms

**(77) Benzidine**

**19.486min ( 0.000) 3519.75 ng**

**response 4617215**

| Ion | Exp% | Act% |
|---|---|---|
| 184.00 | 100.00 | 100.00 |
| 185.00 | 15.50 | 15.21 |
| 183.00 | 13.20 | 12.01 |
| 0.00 | 0.00 | 0.00 |

## DDT Breakdown

| Date | Instrument Name | DFTPP Data File |
|---|---|---|
| 9/17/2025 | BNA_N | BN037739.D |
| | | |
| | | |
| **Compound Name** | **Response** | **Retention Time** |
| | | |
| DDT | 2253525 | 20.727 |
| DDD | 23969 | 20.286 |
| DDE | 1849 | 19.78 |
| | | |
| | | |
| **SUM(DDD+DDE)** | **SUM(DDT+DDD+DDE)** | **% Breakdown Of DDT** |
| | | |
| 25818 | 2279343 | 1.13 |
| | | |

Instrument :
BNA_N
ClientSampleId :
DFTPP

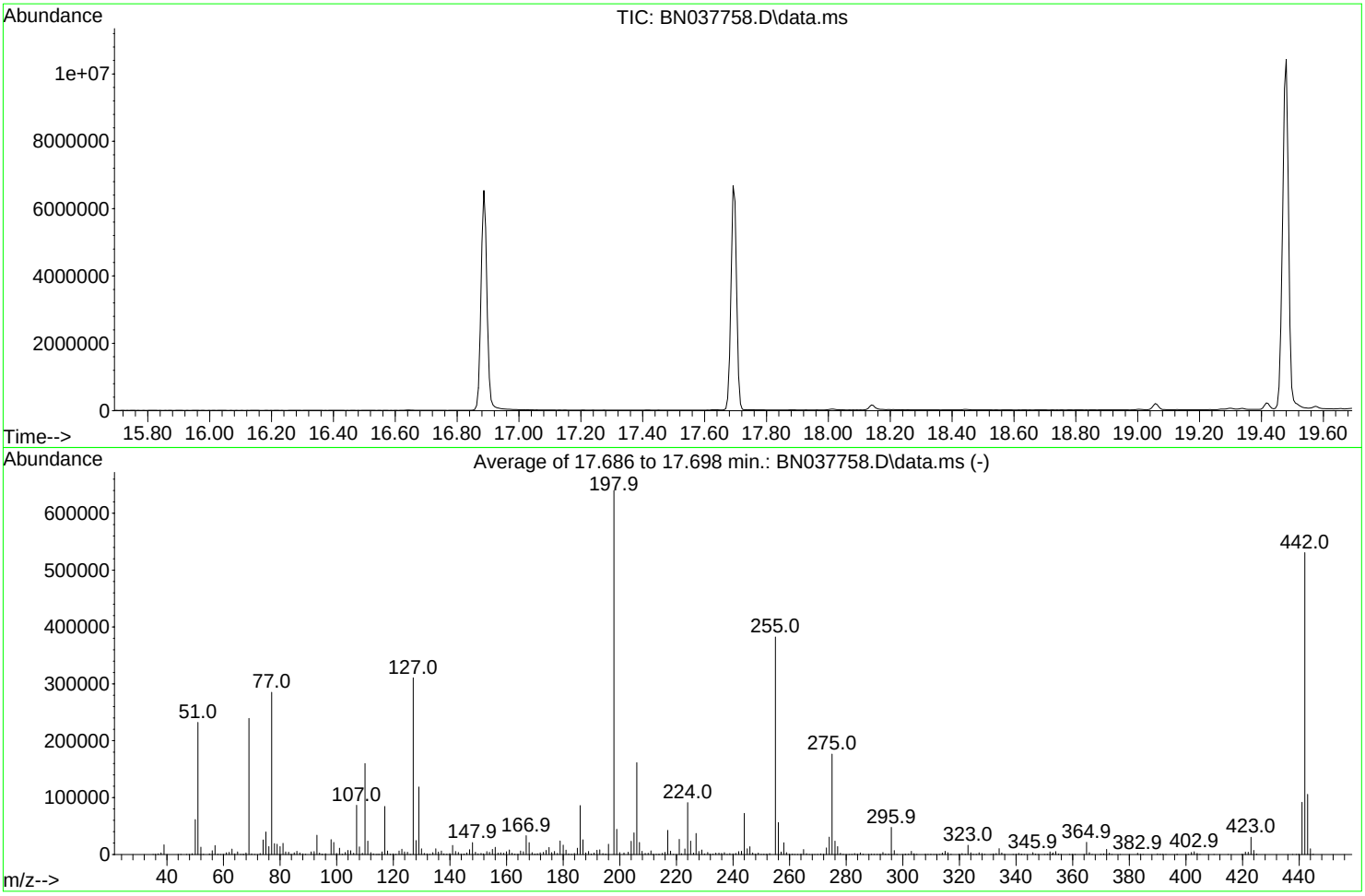
Sample Results: **BN037758.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN091725\
Data File : BN037758.D
Acq On : 18 Sep 2025 02:06
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-BN091125.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
Last Update : Thu Sep 11 14:20:01 2025




AutoFind: Scans 2482, 2483, 2484; Background Corrected with Scan 2475

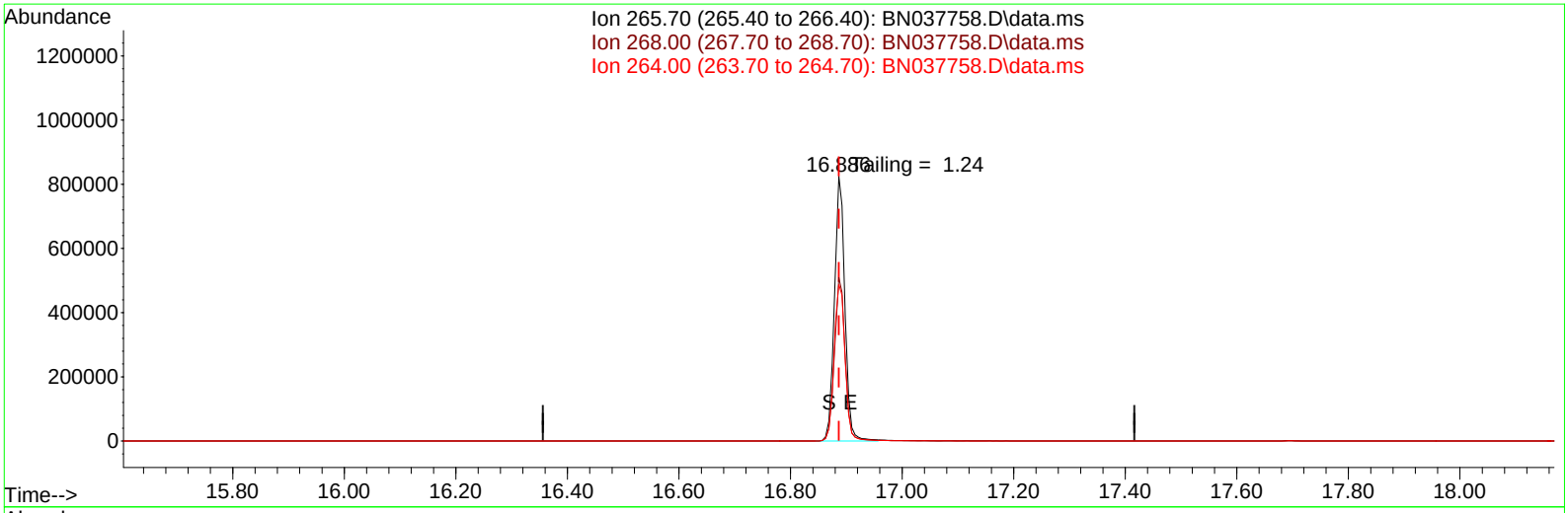
| Target Mass | Rel. to Mass | Lower Limit% | Upper Limit% | Rel. Abn% | Raw Abn | Result Pass/Fail |
|---|---|---|---|---|---|---|
| 68 | 69 | 0.00 | 2 | 1.1 | 2651 | PASS |
| 69 | 69 | 100 | 100 | 100.0 | 239192 | PASS |
| 70 | 69 | 0.00 | 2 | 0.5 | 1177 | PASS |
| 197 | 198 | 0.00 | 2 | 0.0 | 0 | PASS |
| 198 | 198 | 100 | 100 | 100.0 | 640043 | PASS |
| 199 | 198 | 5 | 9 | 6.9 | 44243 | PASS |
| 365 | 198 | 1 | 100 | 3.3 | 21358 | PASS |
| 441 | 443 | 0.01 | 150 | 86.6 | 91685 | PASS |
| 442 | 442 | 100 | 100 | 100.0 | 530709 | PASS |
| 443 | 442 | 15 | 24 | 19.9 | 105811 | PASS |

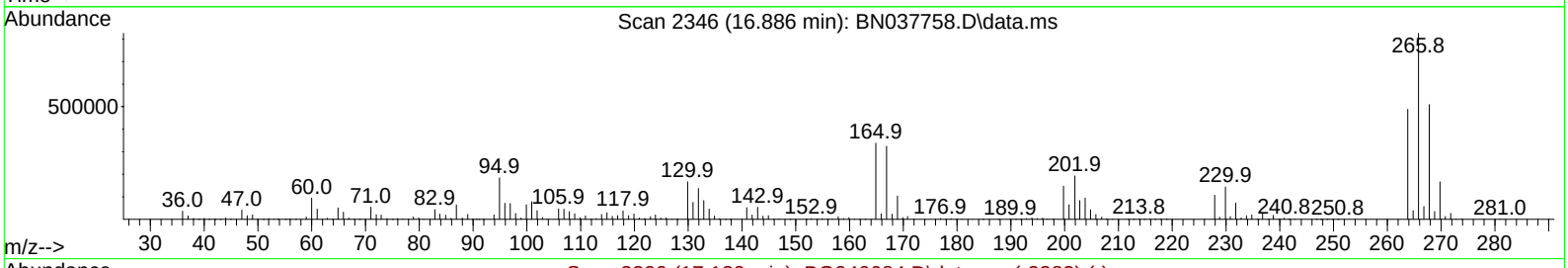
Sample Results: **BN037758.D**

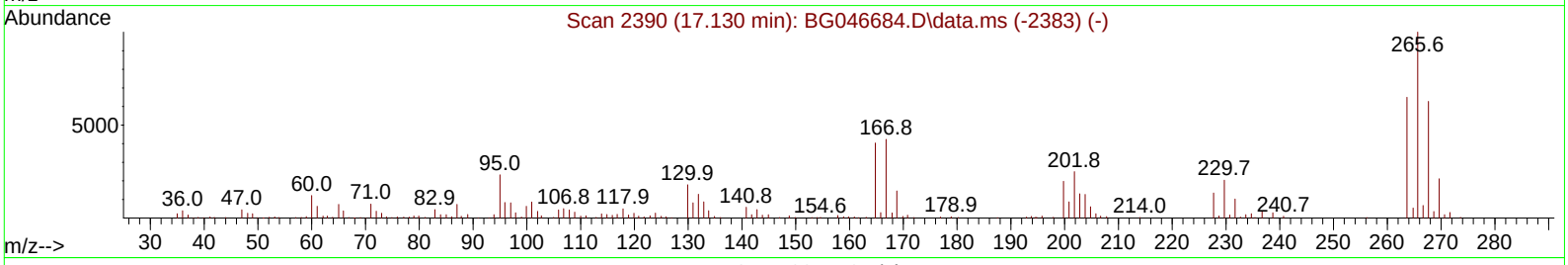
Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN091725\
Data File : BN037758.D
Acq On : 18 Sep 2025 02:06
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

**Instrument :**
BNA_N
**ClientSampleId :**
DFTPP

Quant Time: Sep 18 08:37:15 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270E-Tune.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Sep 18 08:37:03 2025
Response via : Initial Calibration




TIC: BN037758.D\data.ms

**(70) Pentachlorophenol (C)**

**16.886min ( 0.000) 150096.94 ng**

**response 1070732**

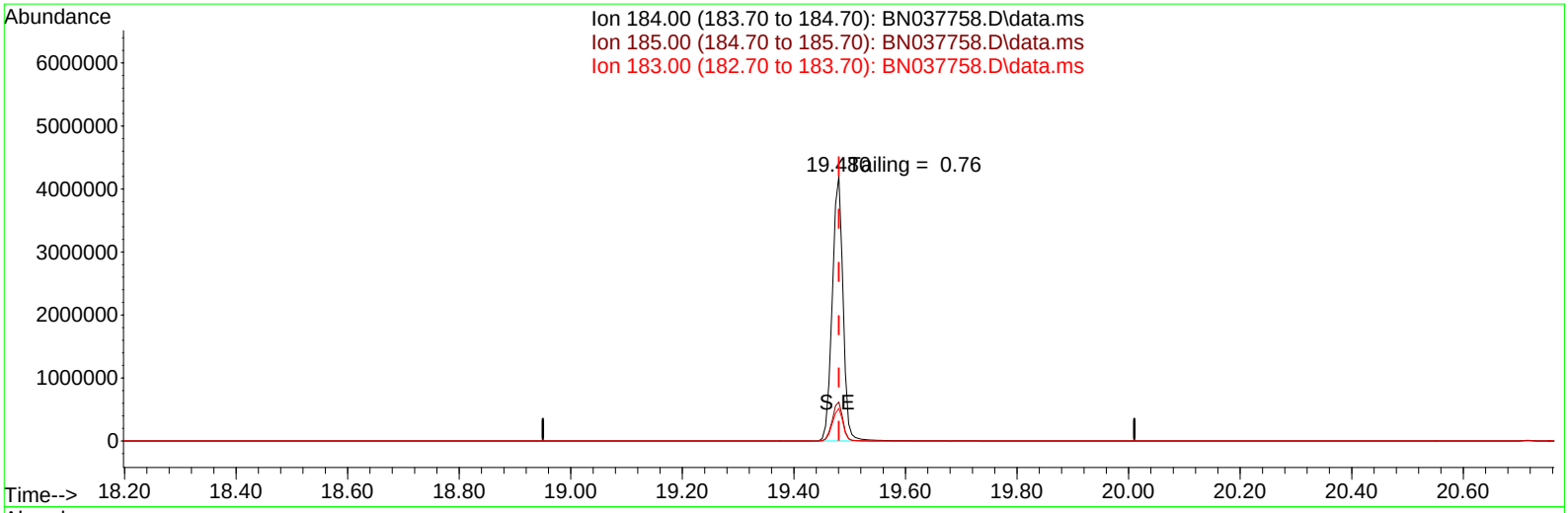
| Ion | Exp% | Act% |
|---|---|---|
| 265.70 | 100.00 | 100.00 |
| 268.00 | 62.20 | 61.72 |
| 264.00 | 61.60 | 59.16 |
| 0.00 | 0.00 | 0.00 |

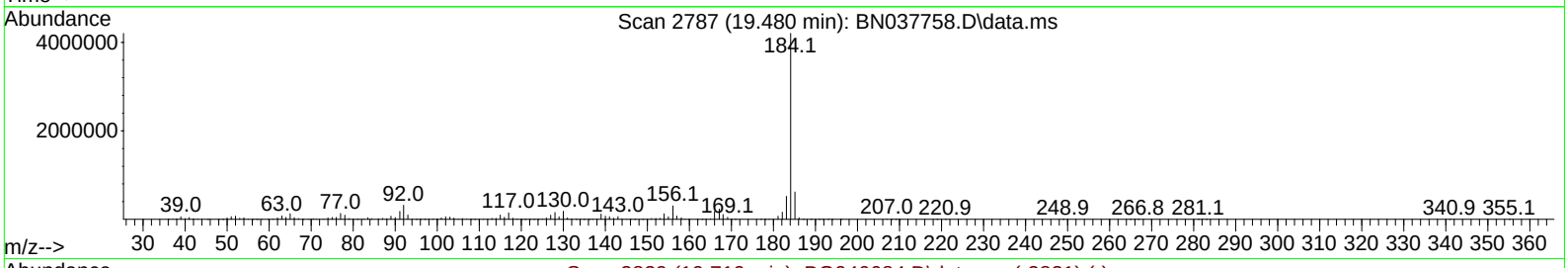
Sample Results: **BN037758.D**

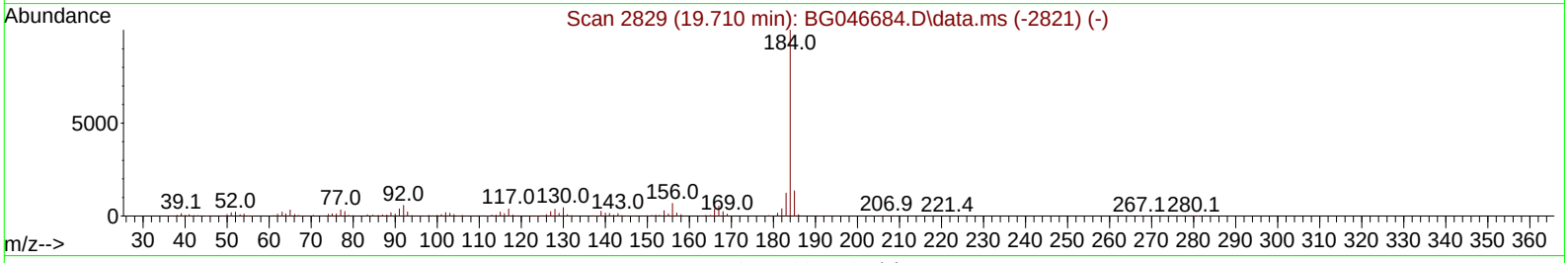
Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN091725\
Data File : BN037758.D
Acq On : 18 Sep 2025 02:06
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

**Instrument :**
BNA_N
**ClientSampleId :**
DFTPP

Quant Time: Sep 18 08:37:15 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270E-Tune.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Sep 18 08:37:03 2025
Response via : Initial Calibration




TIC: BN037758.D\data.ms

**(77) Benzidine**

**19.480min ( 0.000) 95951.94 ng**

**response 5587198**

| Ion | Exp% | Act% |
|---|---|---|
| 184.00 | 100.00 | 100.00 |
| 185.00 | 15.50 | 14.72 |
| 183.00 | 13.20 | 12.39 |
| 0.00 | 0.00 | 0.00 |

## DDT Breakdown

| Date | Instrument Name | DFTPP Data File |
|---|---|---|
| 9/17/2025 | BNA_N | BN037758.D |
| | | |
| | | |
| **Compound Name** | **Response** | **Retention Time** |
| | | |
| DDT | 2444036 | 20.716 |
| DDD | 52273 | 20.274 |
| DDE | 1911 | 19.769 |
| | | |
| | | |
| **SUM(DDD+DDE)** | **SUM(DDT+DDD+DDE)** | **% Breakdown Of DDT** |
| | | |
| 54184 | 2498220 | 2.17 |
| | | |

Instrument :
BNA_N
ClientSampleId :
DFTPP

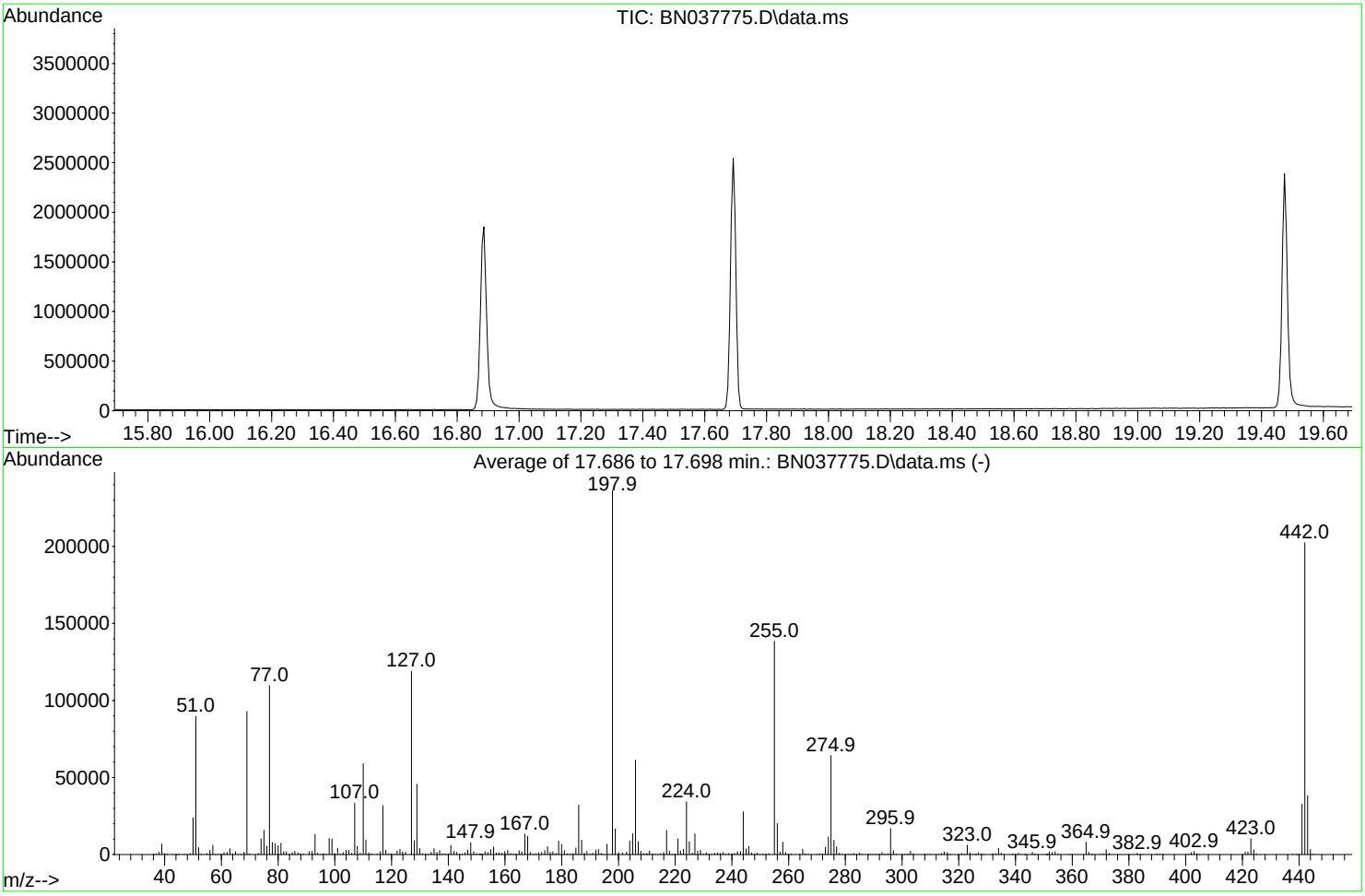
Sample Results: **BN037775.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN091825\
Data File : BN037775.D
Acq On : 18 Sep 2025 13:53
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-BN091125.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
Last Update : Thu Sep 11 14:20:01 2025




AutoFind: Scans 2482, 2483, 2484; Background Corrected with Scan 2475

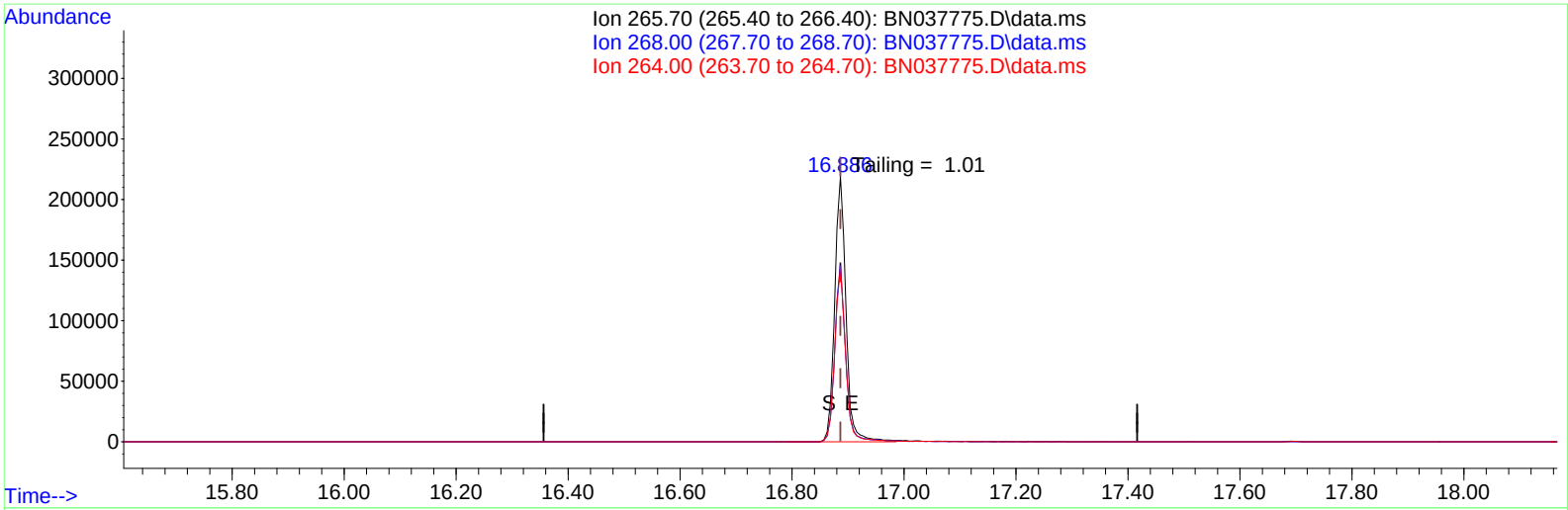
| Target Mass | Rel. to Mass | Lower Limit% | Upper Limit% | Rel. Abn% | Raw Abn | Result Pass/Fail |
|---|---|---|---|---|---|---|
| 68 | 69 | 0.00 | 2 | 1.7 | 1536 | PASS |
| 69 | 69 | 100 | 100 | 100.0 | 92893 | PASS |
| 70 | 69 | 0.00 | 2 | 0.5 | 488 | PASS |
| 197 | 198 | 0.00 | 2 | 0.0 | 0 | PASS |
| 198 | 198 | 100 | 100 | 100.0 | 236267 | PASS |
| 199 | 198 | 5 | 9 | 7.0 | 16530 | PASS |
| 365 | 198 | 1 | 100 | 3.4 | 7963 | PASS |
| 441 | 443 | 0.01 | 150 | 85.6 | 32739 | PASS |
| 442 | 442 | 100 | 100 | 100.0 | 202432 | PASS |
| 443 | 442 | 15 | 24 | 18.9 | 38232 | PASS |

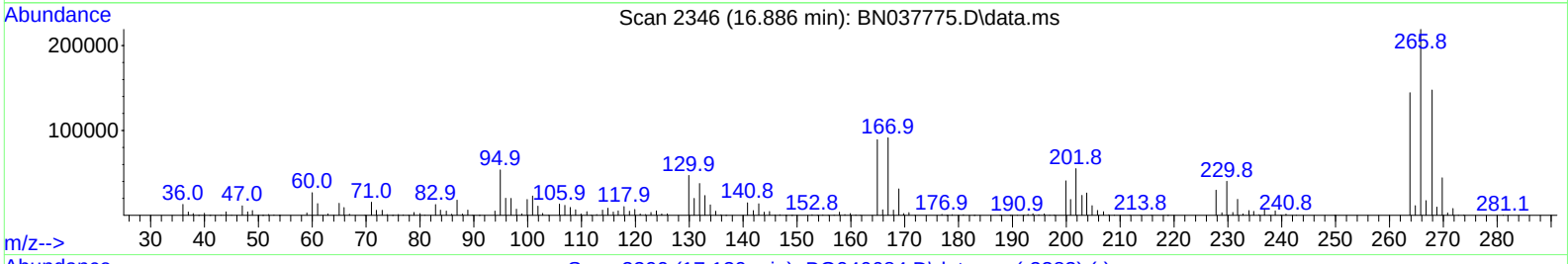
Sample Results: **BN037775.D**

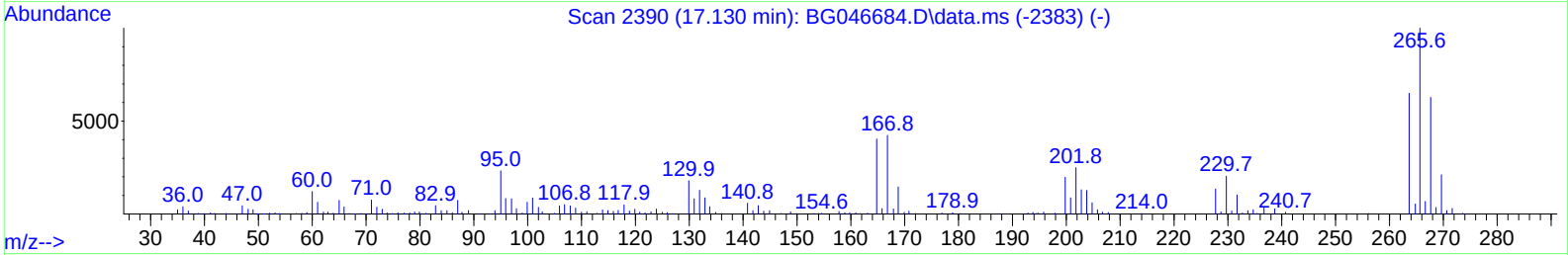
Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN091825\
Data File : BN037775.D
Acq On : 18 Sep 2025 13:53
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

**Instrument :**
BNA_N
**ClientSampleId :**
DFTPP

Quant Time: Sep 18 14:26:24 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270E-Tune.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Sep 18 14:26:16 2025
Response via : Initial Calibration




TIC: BN037775.D\data.ms

**(70) Pentachlorophenol (C)**

**16.886min ( 0.000) 277.80 ng**

**response 307595**

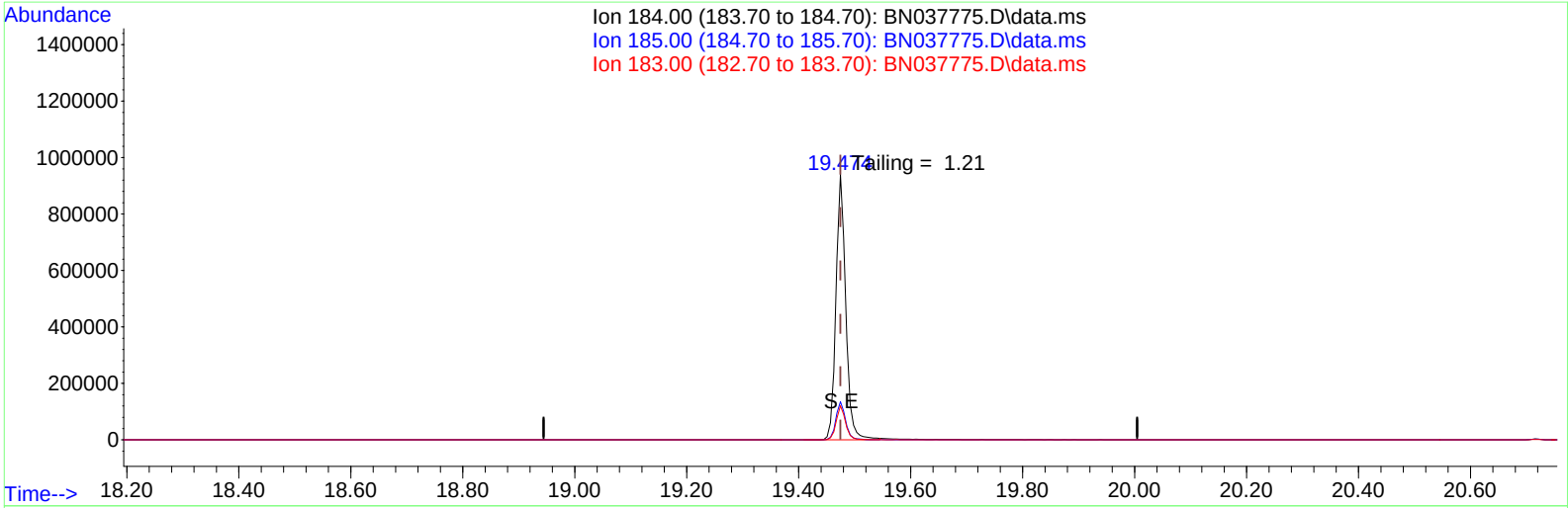
| Ion | Exp% | Act% |
|---|---|---|
| 265.70 | 100.00 | 100.00 |
| 268.00 | 62.20 | 67.44 |
| 264.00 | 61.60 | 66.00 |
| 0.00 | 0.00 | 0.00 |

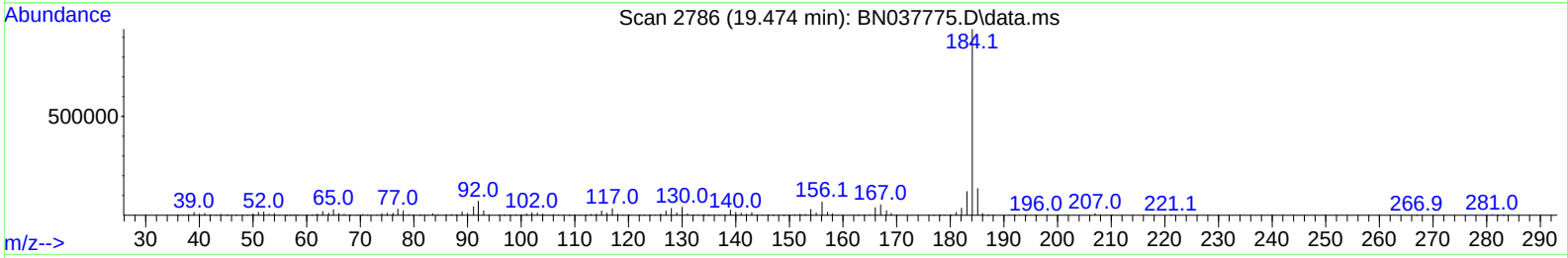
Sample Results: **BN037775.D**

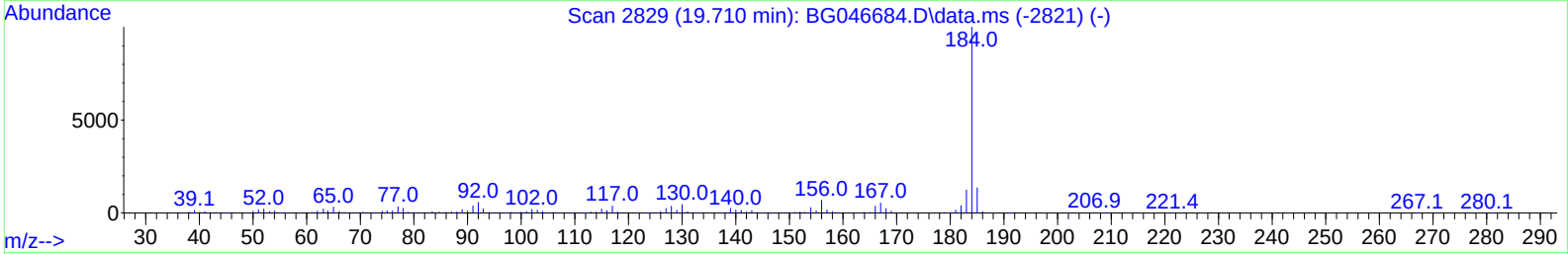
Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN091825\
Data File : BN037775.D
Acq On : 18 Sep 2025 13:53
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

**Instrument :**
BNA_N
**ClientSampleId :**
DFTPP

Quant Time: Sep 18 14:26:24 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270E-Tune.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Sep 18 14:26:16 2025
Response via : Initial Calibration




TIC: BN037775.D\data.ms

**(77) Benzidine**

**19.474min ( 0.000) 0.00 ng**

**response 1155100**

| Ion | Exp% | Act% |
|---|---|---|
| 184.00 | 100.00 | 100.00 |
| 185.00 | 15.50 | 14.36 |
| 183.00 | 13.20 | 12.81 |
| 0.00 | 0.00 | 0.00 |

## DDT Breakdown

| Date | Instrument Name | DFTPP Data File |
|---|---|---|
| 9/18/2025 | BNA_N | BN037775.D |
| | | |
| | | |
| **Compound Name** | **Response** | **Retention Time** |
| | | |
| DDT | 760598 | 20.715 |
| DDD | 22424 | 20.274 |
| DDE | 1646 | 19.774 |
| | | |
| | | |
| **SUM(DDD+DDE)** | **SUM(DDT+DDD+DDE)** | **% Breakdown Of DDT** |
| | | |
| 24070 | 784668 | 3.07 |
| | | |

Instrument :
BNA_N
ClientSampleId :
DFTPP

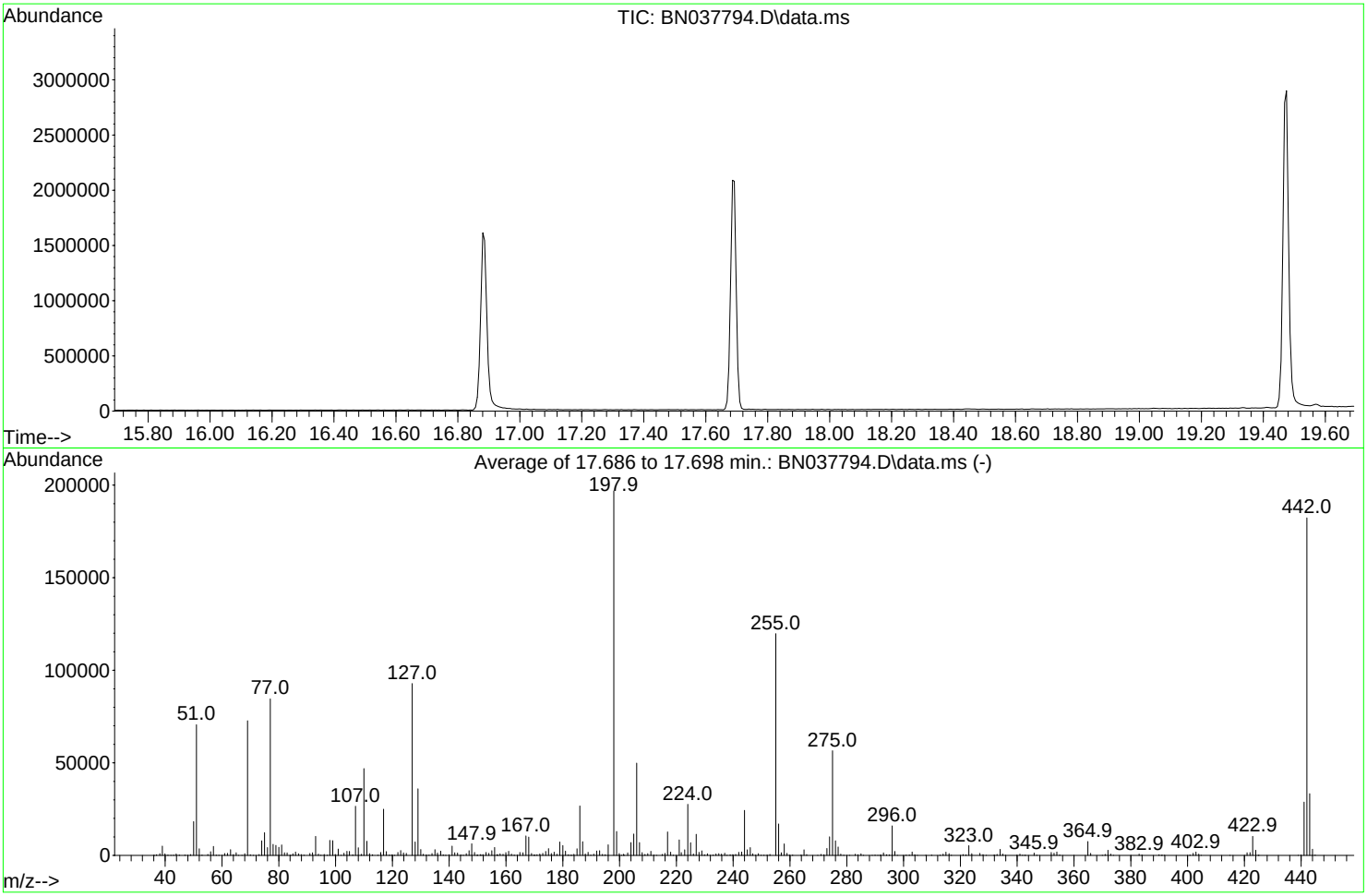
Sample Results: **BN037794.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN091825\
Data File : BN037794.D
Acq On : 19 Sep 2025 02:08
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-BN091125.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
Last Update : Thu Sep 11 14:20:01 2025



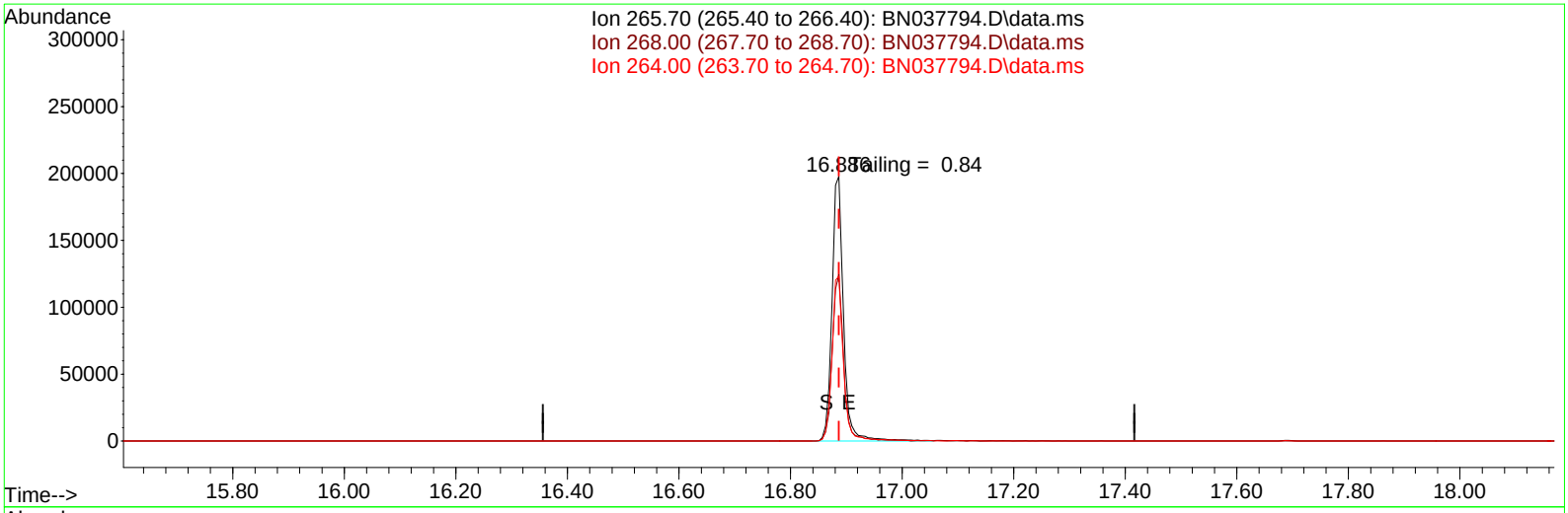

AutoFind: Scans 2482, 2483, 2484; Background Corrected with Scan 2475

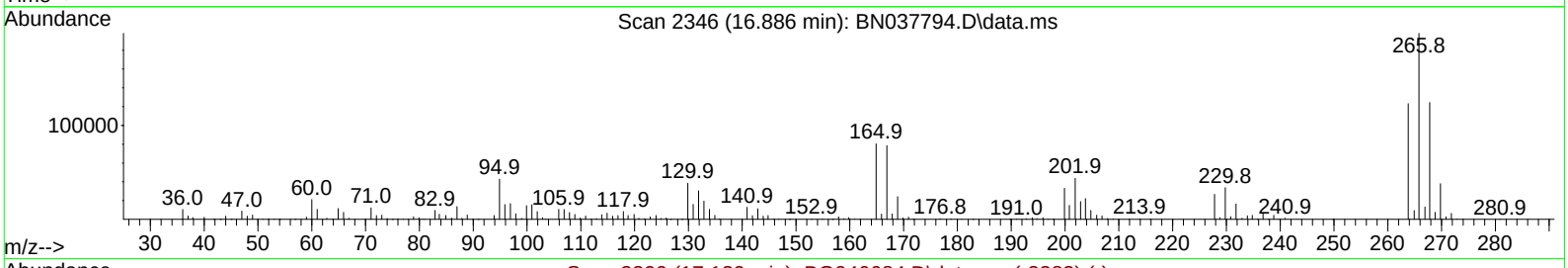
| Target Mass | Rel. to Mass | Lower Limit% | Upper Limit% | Rel. Abn% | Raw Abn | Result Pass/Fail |
|---|---|---|---|---|---|---|
| 68 | 69 | 0.00 | 2 | 1.4 | 987 | PASS |
| 69 | 69 | 100 | 100 | 100.0 | 72725 | PASS |
| 70 | 69 | 0.00 | 2 | 0.6 | 414 | PASS |
| 197 | 198 | 0.00 | 2 | 0.0 | 0 | PASS |
| 198 | 198 | 100 | 100 | 100.0 | 196813 | PASS |
| 199 | 198 | 5 | 9 | 6.6 | 12909 | PASS |
| 365 | 198 | 1 | 100 | 3.8 | 7534 | PASS |
| 441 | 443 | 0.01 | 150 | 86.4 | 28805 | PASS |
| 442 | 442 | 100 | 100 | 100.0 | 182293 | PASS |
| 443 | 442 | 15 | 24 | 18.3 | 33347 | PASS |

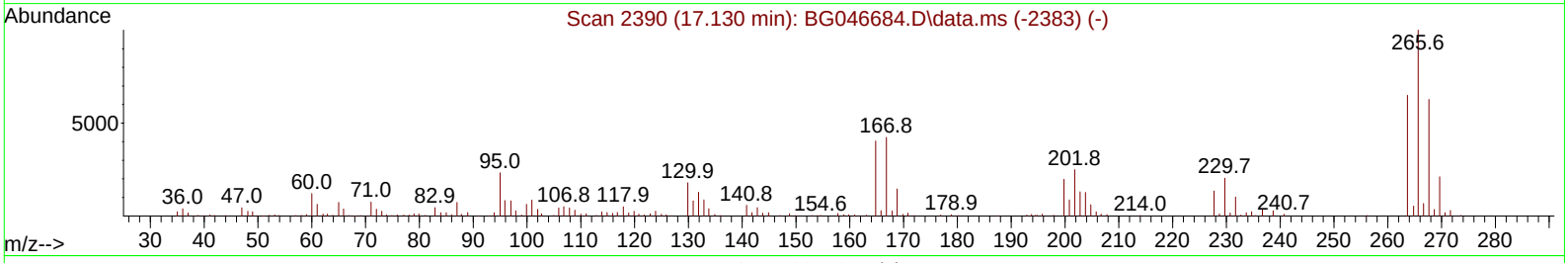
Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN091825\
Data File : BN037794.D
Acq On : 19 Sep 2025 02:08
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

**Instrument :**
BNA_N
**ClientSampleId :**
DFTPP

Quant Time: Sep 19 04:29:44 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270E-Tune.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Sep 19 04:29:39 2025
Response via : Initial Calibration




TIC: BN037794.D\data.ms

**(70) Pentachlorophenol (C)**

**16.886min ( 0.000) 32518.88 ng**

**response 284548**

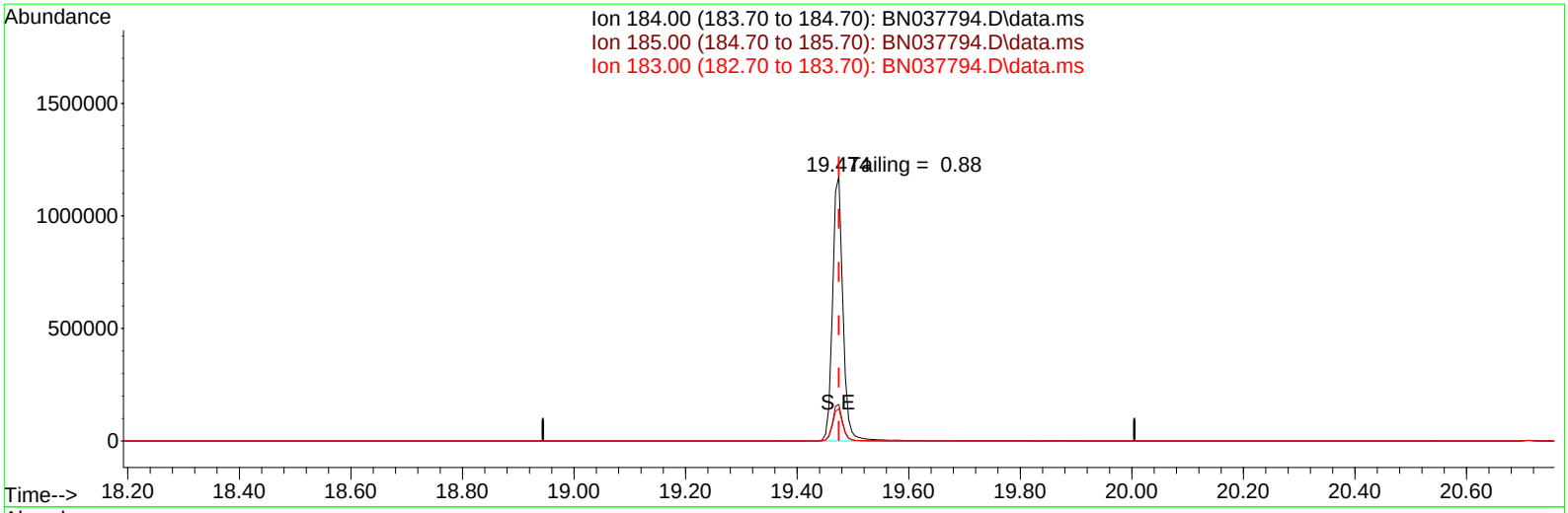
| Ion | Exp% | Act% |
|---|---|---|
| 265.70 | 100.00 | 100.00 |
| 268.00 | 62.20 | 62.85 |
| 264.00 | 61.60 | 62.23 |
| 0.00 | 0.00 | 0.00 |

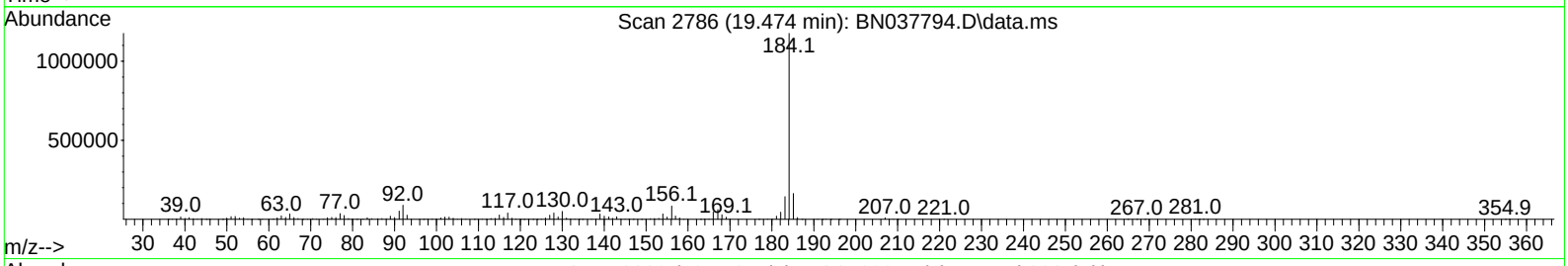
Sample Results: **BN037794.D**

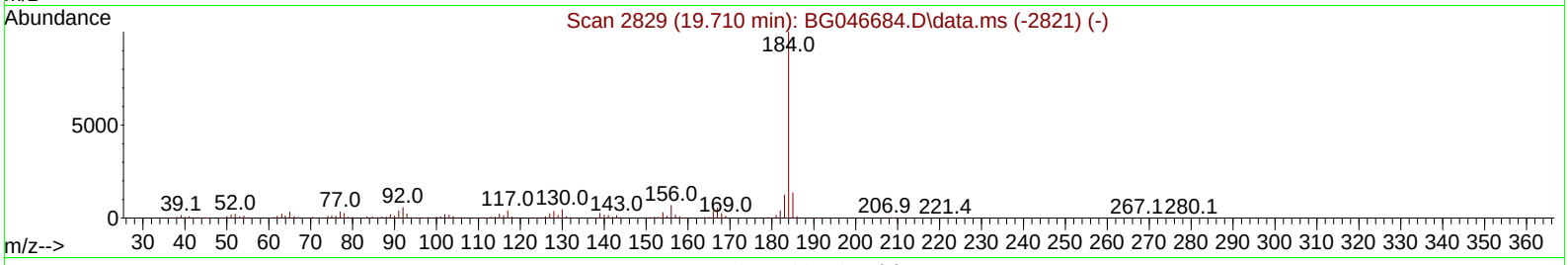
Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN091825\
Data File : BN037794.D
Acq On : 19 Sep 2025 02:08
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

**Instrument :**
BNA_N
**ClientSampleId :**
DFTPP

Quant Time: Sep 19 04:29:44 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270E-Tune.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Sep 19 04:29:39 2025
Response via : Initial Calibration




TIC: BN037794.D\data.ms

**(77) Benzidine**

**19.474min ( 0.000) 0.00 ng**

**response 1527830**

| Ion | Exp% | Act% |
|---|---|---|
| 184.00 | 100.00 | 100.00 |
| 185.00 | 15.50 | 13.88 |
| 183.00 | 13.20 | 12.20 |
| 0.00 | 0.00 | 0.00 |

## DDT Breakdown

| Date | Instrument Name | DFTPP Data File |
|---|---|---|
| 9/18/2025 | BNA_N | BN037794.D |
| | | |
| | | |
| **Compound Name** | **Response** | **Retention Time** |
| | | |
| DDT | 688292 | 20.71 |
| DDD | 26538 | 20.269 |
| DDE | 1670 | 19.769 |
| | | |
| | | |
| **SUM(DDD+DDE)** | **SUM(DDT+DDD+DDE)** | **% Breakdown Of DDT** |
| | | |
| 28208 | 716500 | 3.94 |
| | | |

Instrument :
BNA_N
ClientSampleId :
DFTPP

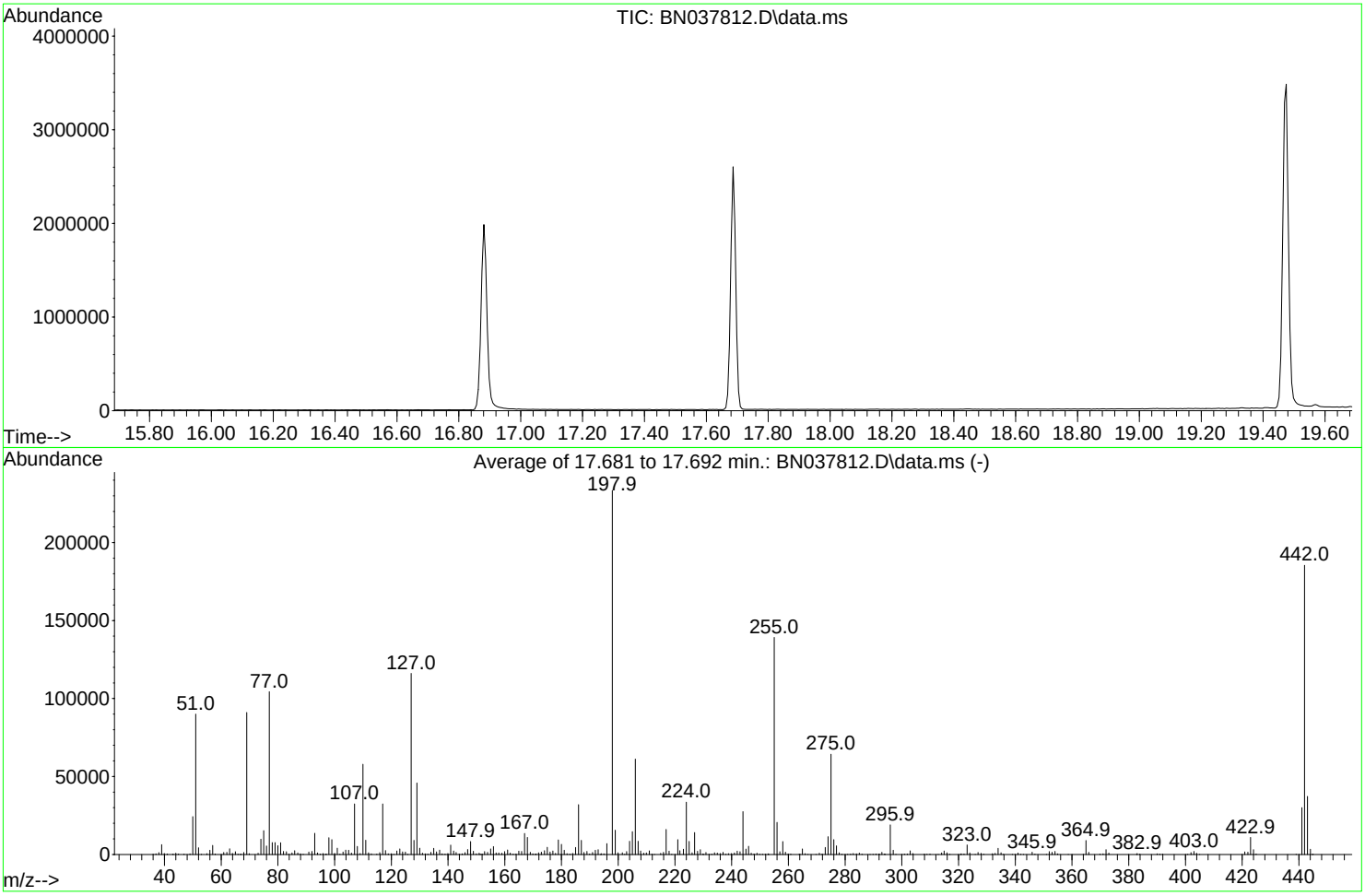
Sample Results: **BN037812.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN091925\
Data File : BN037812.D
Acq On : 19 Sep 2025 13:39
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-BN091125.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
Last Update : Thu Sep 11 14:20:01 2025




AutoFind: Scans 2481, 2482, 2483; Background Corrected with Scan 2474

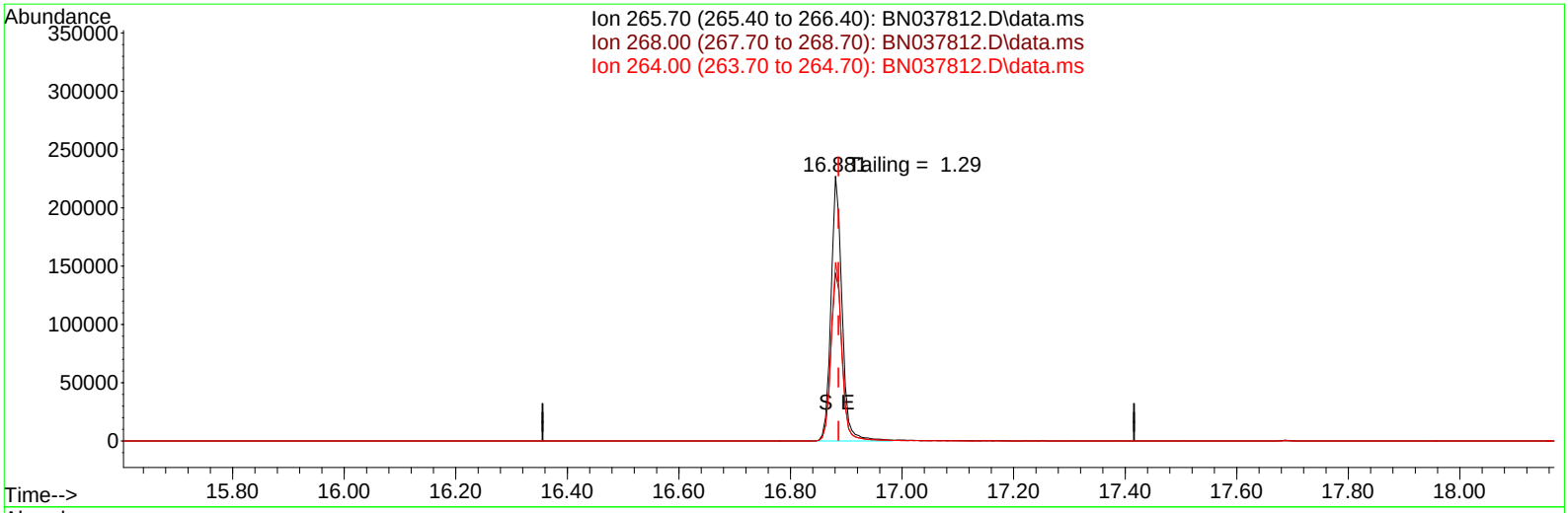
| Target Mass | Rel. to Mass | Lower Limit% | Upper Limit% | Rel. Abn% | Raw Abn | Result Pass/Fail |
|---|---|---|---|---|---|---|
| 68 | 69 | 0.00 | 2 | 1.4 | 1252 | PASS |
| 69 | 69 | 100 | 100 | 100.0 | 91029 | PASS |
| 70 | 69 | 0.00 | 2 | 0.6 | 539 | PASS |
| 197 | 198 | 0.00 | 2 | 0.0 | 0 | PASS |
| 198 | 198 | 100 | 100 | 100.0 | 233408 | PASS |
| 199 | 198 | 5 | 9 | 6.7 | 15546 | PASS |
| 365 | 198 | 1 | 100 | 3.8 | 8907 | PASS |
| 441 | 443 | 0.01 | 150 | 80.8 | 30061 | PASS |
| 442 | 442 | 100 | 100 | 100.0 | 185456 | PASS |
| 443 | 442 | 15 | 24 | 20.1 | 37200 | PASS |

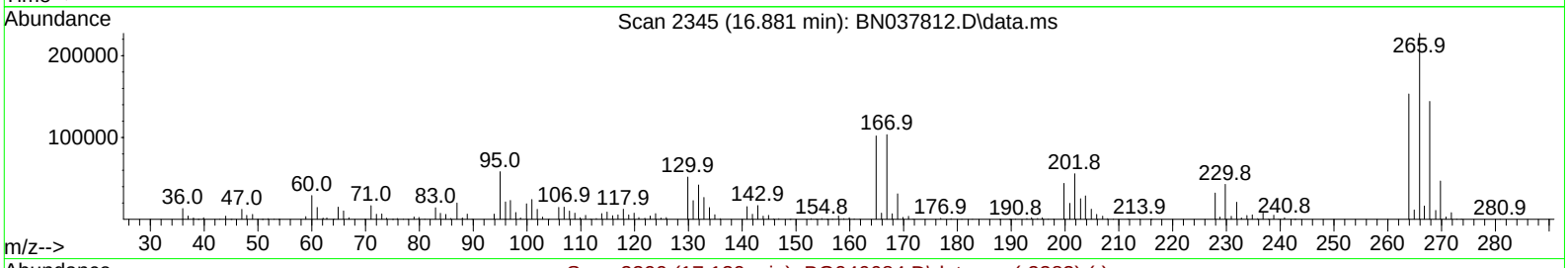
Sample Results: **BN037812.D**

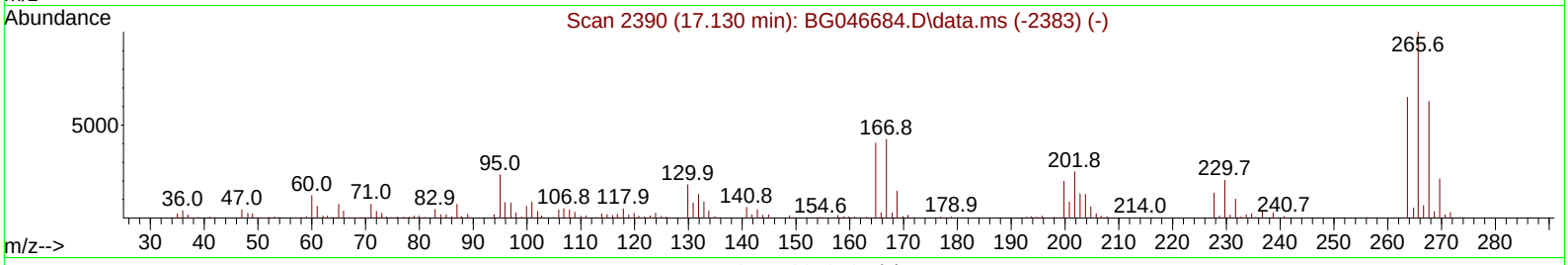
Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN091925\
Data File : BN037812.D
Acq On : 19 Sep 2025 13:39
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

**Instrument :**
BNA_N
**ClientSampleId :**
DFTPP

Quant Time: Sep 22 20:01:10 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270E-Tune.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Sat Sep 20 01:53:13 2025
Response via : Initial Calibration




TIC: BN037812.D\data.ms

**(70) Pentachlorophenol (C)**

**16.881min (-0.005) 23824.83 ng**

**response 312055**

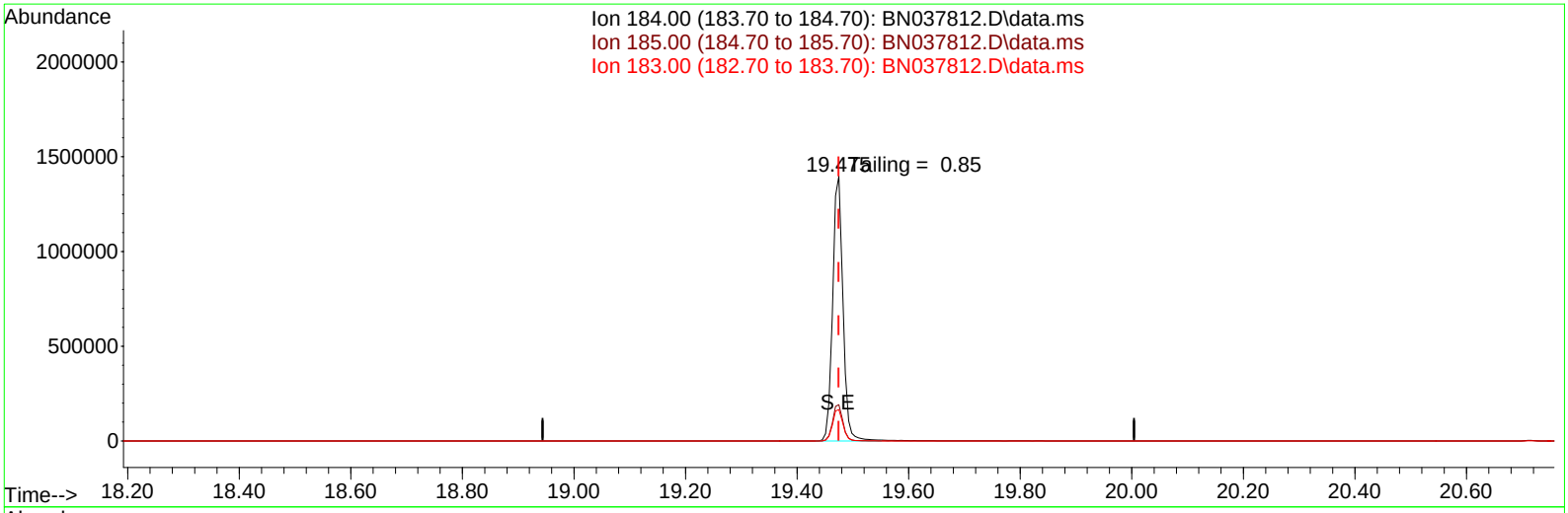
| Ion | Exp% | Act% |
|---|---|---|
| 265.70 | 100.00 | 100.00 |
| 268.00 | 62.20 | 63.43 |
| 264.00 | 61.60 | 67.43 |
| 0.00 | 0.00 | 0.00 |

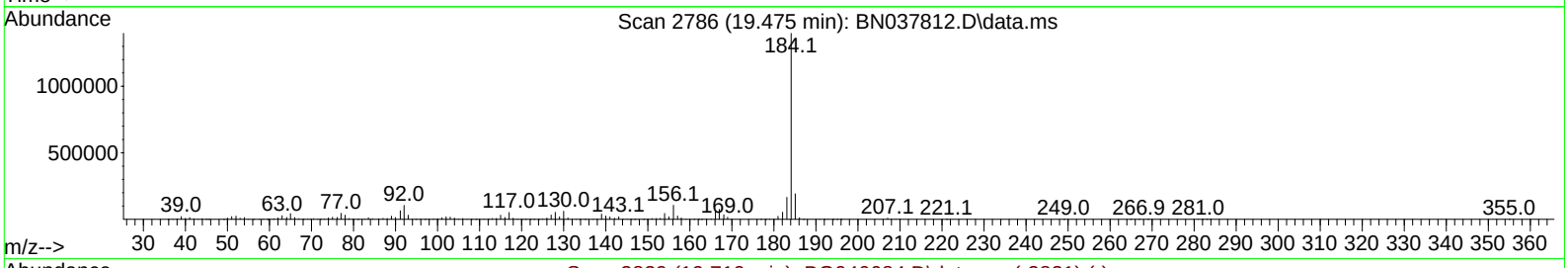
Sample Results: **BN037812.D**

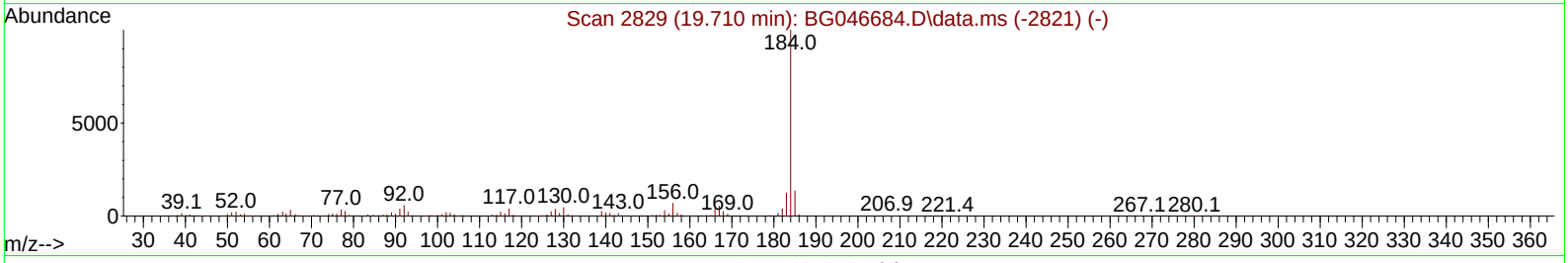
Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN091925\
Data File : BN037812.D
Acq On : 19 Sep 2025 13:39
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

**Instrument :**
BNA_N
**ClientSampleId :**
DFTPP

Quant Time: Sep 22 20:01:10 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270E-Tune.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Sat Sep 20 01:53:13 2025
Response via : Initial Calibration




TIC: BN037812.D\data.ms

**(77) Benzidine**

**19.475min (+ 0.001) 0.00 ng**

**response 1812303**

| Ion | Exp% | Act% |
|---|---|---|
| 184.00 | 100.00 | 100.00 |
| 185.00 | 15.50 | 13.75 |
| 183.00 | 13.20 | 11.88 |
| 0.00 | 0.00 | 0.00 |

## DDT Breakdown

| Date | Instrument Name | DFTPP Data File |
|---|---|---|
| 9/19/2025 | BNA_N | BN037812.D |
| | | |
| | | |
| **Compound Name** | **Response** | **Retention Time** |
| | | |
| DDT | 836771 | 20.716 |
| DDD | 28711 | 20.275 |
| DDE | 1832 | 19.769 |
| | | |
| | | |
| **SUM(DDD+DDE)** | **SUM(DDT+DDD+DDE)** | **% Breakdown Of DDT** |
| | | |
| 30543 | 867314 | 3.52 |
| | | |

Instrument :
BNA_N
ClientSampleId :
DFTPP

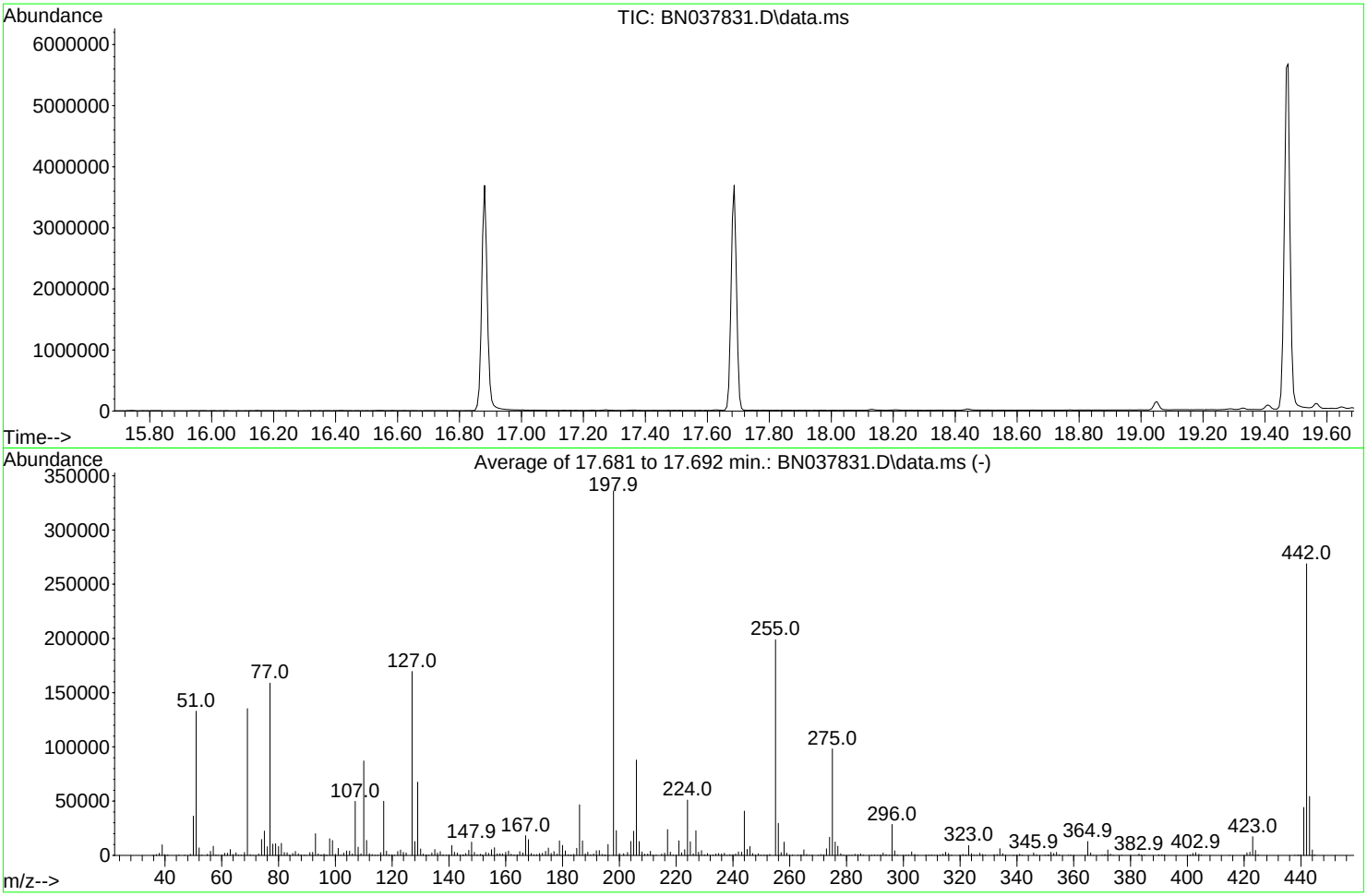
Sample Results: **BN037831.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN091925\
Data File : BN037831.D
Acq On : 20 Sep 2025 01:16
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-BN091125.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
Last Update : Thu Sep 11 14:20:01 2025




AutoFind: Scans 2481, 2482, 2483; Background Corrected with Scan 2474

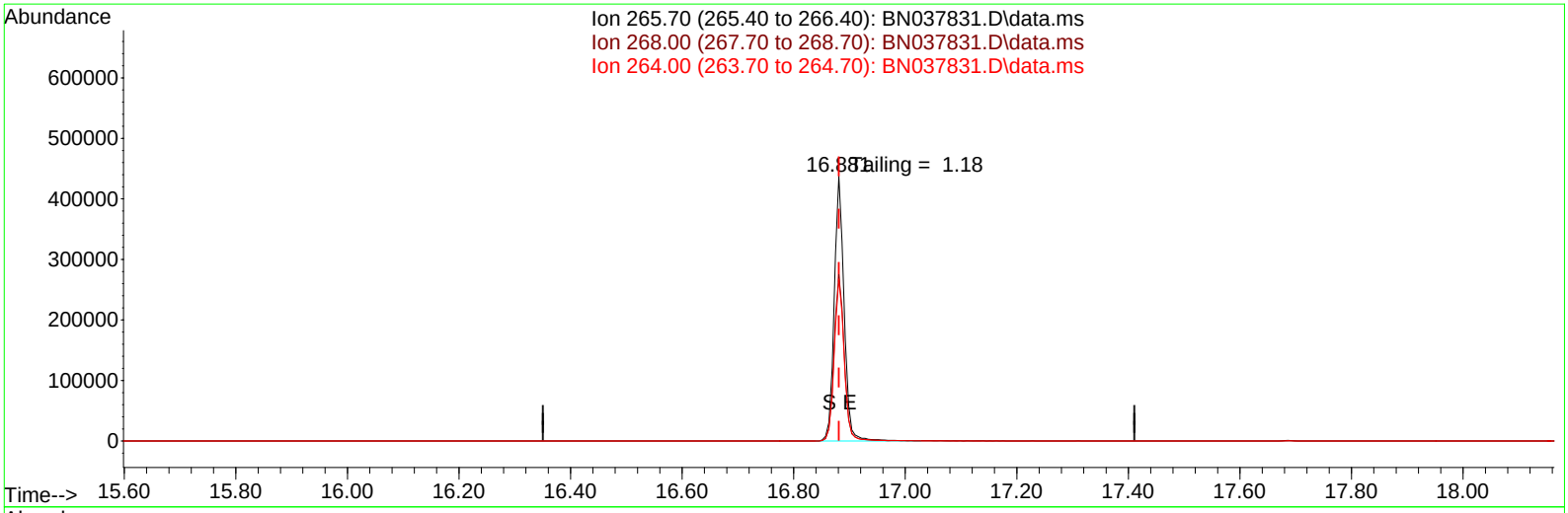
| Target Mass | Rel. to Mass | Lower Limit% | Upper Limit% | Rel. Abn% | Raw Abn | Result Pass/Fail |
|---|---|---|---|---|---|---|
| 68 | 69 | 0.00 | 2 | 1.9 | 2623 | PASS |
| 69 | 69 | 100 | 100 | 100.0 | 135264 | PASS |
| 70 | 69 | 0.00 | 2 | 0.6 | 760 | PASS |
| 197 | 198 | 0.00 | 2 | 0.0 | 0 | PASS |
| 198 | 198 | 100 | 100 | 100.0 | 335979 | PASS |
| 199 | 198 | 5 | 9 | 6.8 | 22795 | PASS |
| 365 | 198 | 1 | 100 | 3.8 | 12691 | PASS |
| 441 | 443 | 0.01 | 150 | 81.3 | 44184 | PASS |
| 442 | 442 | 100 | 100 | 100.0 | 268907 | PASS |
| 443 | 442 | 15 | 24 | 20.2 | 54328 | PASS |

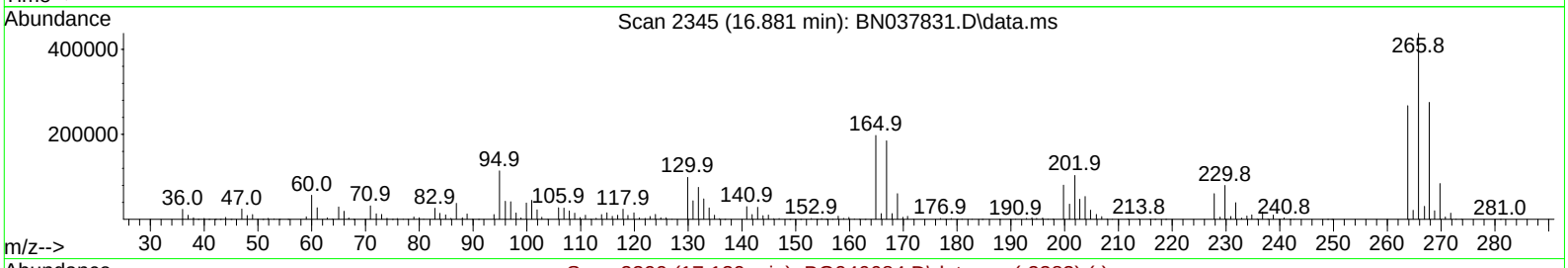
Sample Results: **BN037831.D**

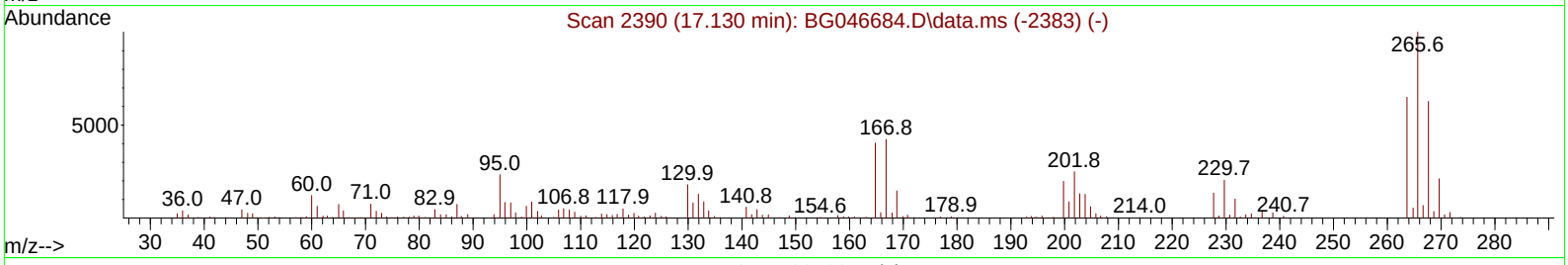
Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN091925\
Data File : BN037831.D
Acq On : 20 Sep 2025 01:16
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

**Instrument :**
BNA_N
**ClientSampleId :**
DFTPP

Quant Time: Sep 20 01:53:19 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270E-Tune.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Sat Sep 20 01:53:13 2025
Response via : Initial Calibration




TIC: BN037831.D\data.ms

**(70) Pentachlorophenol (C)**

**16.881min ( 0.000) 34698.10 ng**

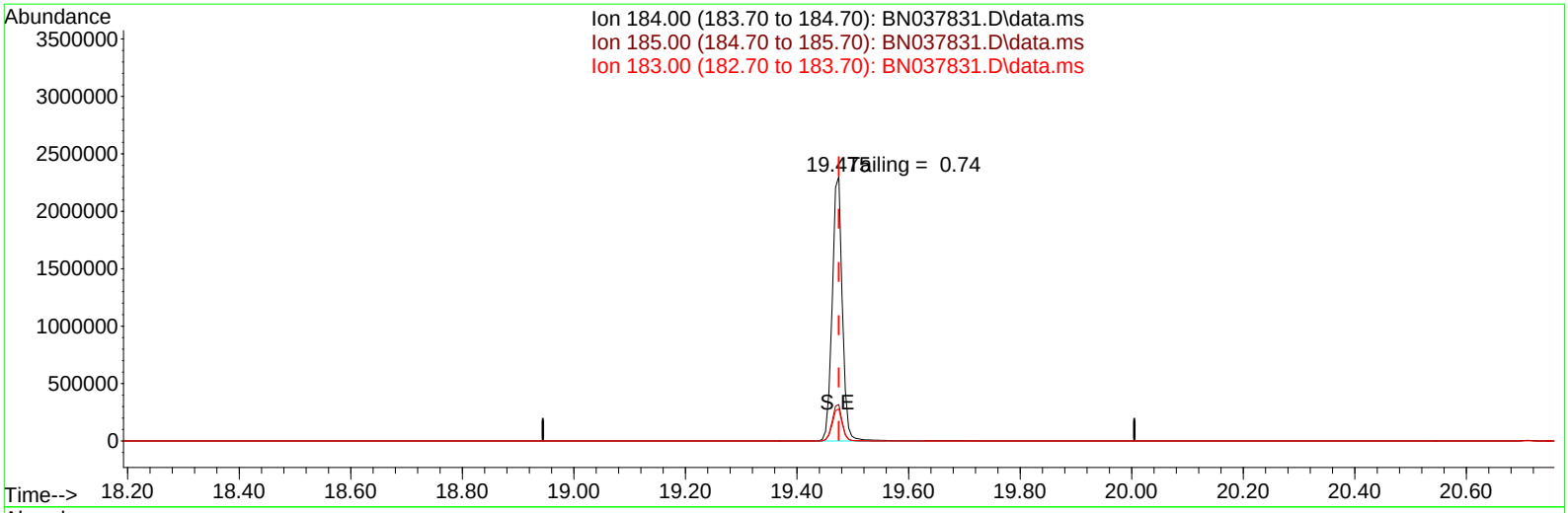
**response 541064**

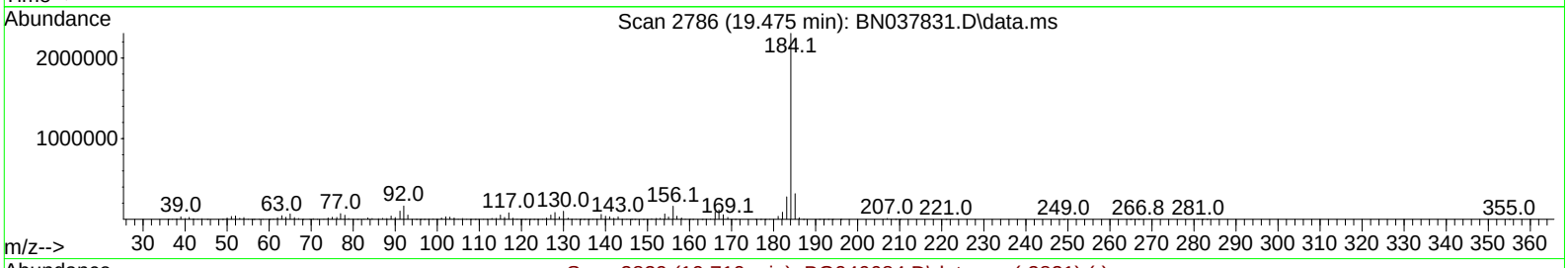
| Ion | Exp% | Act% |
|---|---|---|
| 265.70 | 100.00 | 100.00 |
| 268.00 | 62.20 | 62.87 |
| 264.00 | 61.60 | 61.16 |
| 0.00 | 0.00 | 0.00 |

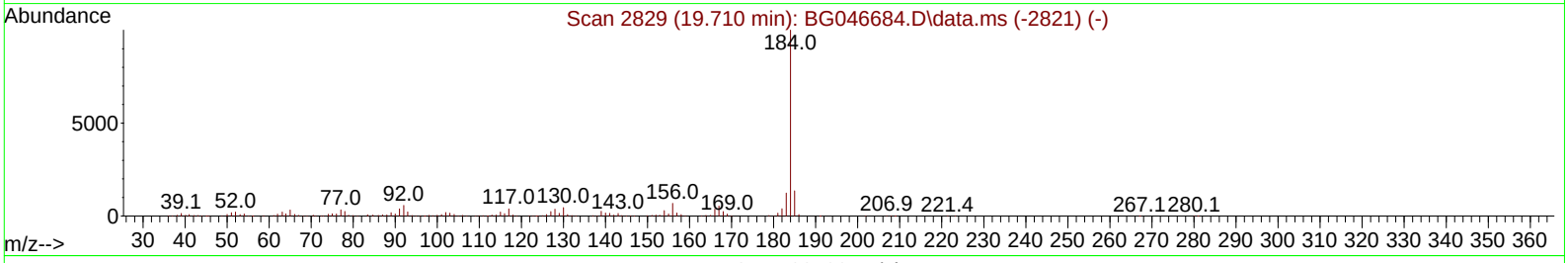
Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN091925\
Data File : BN037831.D
Acq On : 20 Sep 2025 01:16
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

**Instrument :**
BNA_N
**ClientSampleId :**
DFTPP

Quant Time: Sep 20 01:53:19 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270E-Tune.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Sat Sep 20 01:53:13 2025
Response via : Initial Calibration




TIC: BN037831.D\data.ms

**(77) Benzidine**

**19.475min ( 0.000) 0.00 ng**

**response 2907322**

| Ion | Exp% | Act% |
|---|---|---|
| 184.00 | 100.00 | 100.00 |
| 185.00 | 15.50 | 13.77 |
| 183.00 | 13.20 | 12.11 |
| 0.00 | 0.00 | 0.00 |

## DDT Breakdown

| Date | Instrument Name | DFTPP Data File |
|---|---|---|
| 9/19/2025 | BNA_N | BN037831.D |
| | | |
| | | |
| **Compound Name** | **Response** | **Retention Time** |
| | | |
| DDT | 1283981 | 20.71 |
| DDD | 30254 | 20.269 |
| DDE | 1457 | 19.769 |
| | | |
| | | |
| **SUM(DDD+DDE)** | **SUM(DDT+DDD+DDE)** | **% Breakdown Of DDT** |
| | | |
| 31711 | 1315692 | 2.41 |
| | | |

Instrument :
BNA_N
ClientSampleId :
DFTPP

Raw Data: **BN037796.D**

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

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | AECOM Technical Services, Inc. | Date Collected: | |
| Project: | NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258 | Date Received: | |
| Client Sample ID: | PB169692BL | SDG No.: | Q3095 |
| Lab Sample ID: | PB169692BL | Matrix: | Water |
| Analytical Method: | SW8270ESIM | % Solid: | 0 |
| Sample Wt/Vol: | 1000 Units: mL | Final Vol: | 1000 uL |
| Soil Aliquot Vol: | uL | Test: | SVOC-SIMGroup1 |
| Extraction Type : | Decanted : N | Level : | LOW |
| Injection Volume : | GPC Factor : 1.0 | GPC Cleanup : | N PH : |
| Prep Method : | | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| BN037796.D | 1 | 09/15/25 10:15 | 09/19/25 03:24 | PB169692 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOD | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | | |
| 123-91-1 | 1,4-Dioxane | 0.20 | U | 0.070 | 0.20 | 0.20 | ug/L |
| **SURROGATES** | | | | | | | |
| 7297-45-2 | 2-Methylnaphthalene-d10 | 0.31 | | 30 - 150 | | 79% | SPK: 0.4 |
| 93951-69-0 | Fluoranthene-d10 | 0.30 | | 30 - 150 | | 75% | SPK: 0.4 |
| 4165-60-0 | Nitrobenzene-d5 | 0.39 | | 55 - 111 | | 97% | SPK: 0.4 |
| 321-60-8 | 2-Fluorobiphenyl | 0.37 | | 53 - 106 | | 92% | SPK: 0.4 |
| 1718-51-0 | Terphenyl-d14 | 0.34 | | 58 - 132 | | 84% | SPK: 0.4 |
| **INTERNAL STANDARDS** | | | | | | | |
| 3855-82-1 | 1,4-Dichlorobenzene-d4 | 7700 | 7.833 | | | | |
| 1146-65-2 | Naphthalene-d8 | 18700 | 10.637 | | | | |
| 15067-26-2 | Acenaphthene-d10 | 7810 | 14.484 | | | | |
| 1517-22-2 | Phenanthrene-d10 | 12500 | 17.236 | | | | |
| 1719-03-5 | Chrysene-d12 | 10000 | 21.411 | | | | |
| 1520-96-3 | Perylene-d12 | 10300 | 23.739 | | | | |

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

Sample Results: **BN037796.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN091825\
Data File : BN037796.D
Acq On : 19 Sep 2025 03:24
Operator : RC/JU
Sample : PB169692BL
Misc :
ALS Vial : 21 Sample Multiplier: 1

**Instrument :**
BNA_N
**ClientSampleId :**
PB169692BL

Quant Time: Sep 19 04:36:06 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN091125.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Sep 11 14:20:01 2025
Response via : Initial Calibration

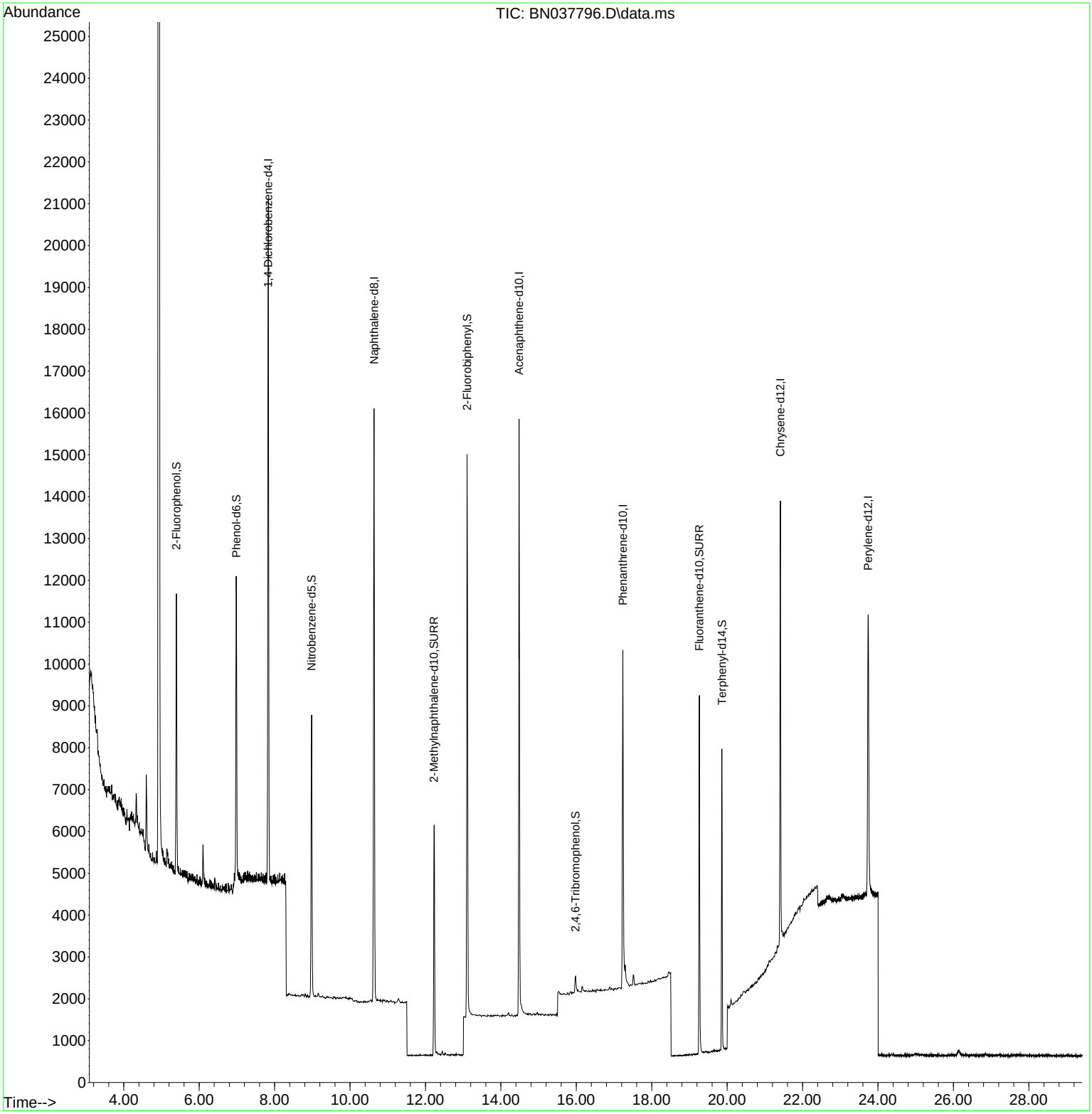
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) 1,4-Dichlorobenzene-d4 | 7.833 | 152 | 7701 | 0.400 | ng | 0.00 |
| 7) Naphthalene-d8 | 10.637 | 136 | 18665 | 0.400 | ng | -0.01 |
| 13) Acenaphthene-d10 | 14.484 | 164 | 7806 | 0.400 | ng | -0.01 |
| 19) Phenanthrene-d10 | 17.236 | 188 | 12511 | 0.400 | ng | # 0.00 |
| 29) Chrysene-d12 | 21.411 | 240 | 10022 | 0.400 | ng | 0.00 |
| 35) Perylene-d12 | 23.739 | 264 | 10278 | 0.400 | ng | #-0.01 |
| System Monitoring Compounds | | | | | | |
| 4) 2-Fluorophenol | 5.399 | 112 | 5446 | 0.308 | ng | 0.00 |
| 5) Phenol-d6 | 6.988 | 99 | 6827 | 0.298 | ng | 0.00 |
| 8) Nitrobenzene-d5 | 8.982 | 82 | 5277 | 0.387 | ng | -0.01 |
| 11) 2-Methylnaphthalene-d10 | 12.228 | 152 | 7773 | 0.314 | ng | -0.02 |
| 14) 2,4,6-Tribromophenol | 15.982 | 330 | 380 | 0.187 | ng | 0.00 |
| 15) 2-Fluorobiphenyl | 13.105 | 172 | 11980 | 0.367 | ng | -0.01 |
| 27) Fluoranthene-d10 | 19.262 | 212 | 9482 | 0.302 | ng | 0.00 |
| 31) Terphenyl-d14 | 19.861 | 244 | 6849 | 0.337 | ng | 0.00 |
| Target Compounds | | | | | | Qvalue |

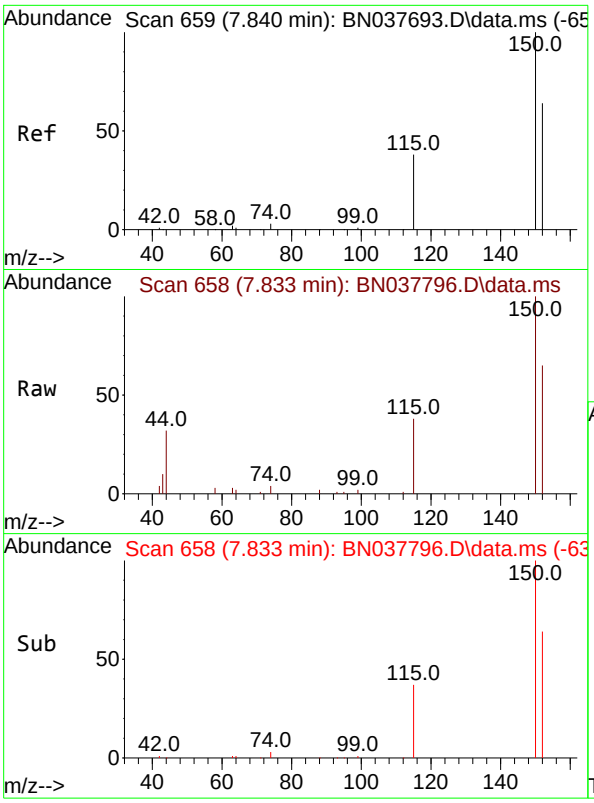
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN091825\
Data File : BN037796.D
Acq On : 19 Sep 2025 03:24
Operator : RC/JU
Sample : PB169692BL
Misc :
ALS Vial : 21 Sample Multiplier: 1

**Instrument :**
BNA_N
**ClientSampleId :**
PB169692BL

Quant Time: Sep 19 04:36:06 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN091125.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Sep 11 14:20:01 2025
Response via : Initial Calibration



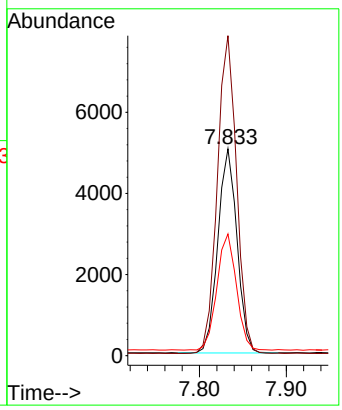


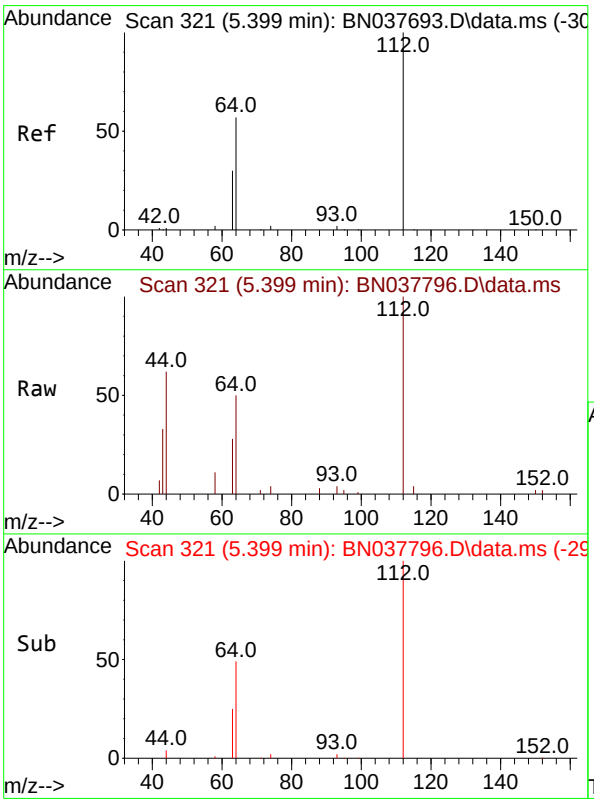

#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.833 min Scan# 6
Delta R.T. -0.007 min
Lab File: BN037796.D
Acq: 19 Sep 2025 03:24

**Instrument :**
BNA_N
**ClientSampleId :**
PB169692BL

Tgt Ion:152 Resp: 7701

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 150 | 154.6 | 124.5 | 186.7 |
| 115 | 58.8 | 49.2 | 73.8 |

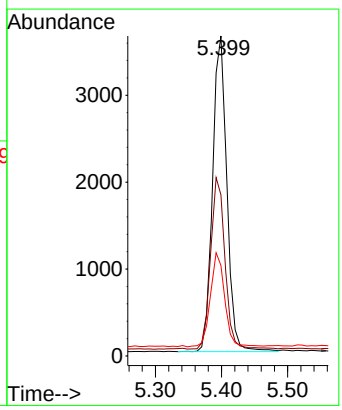


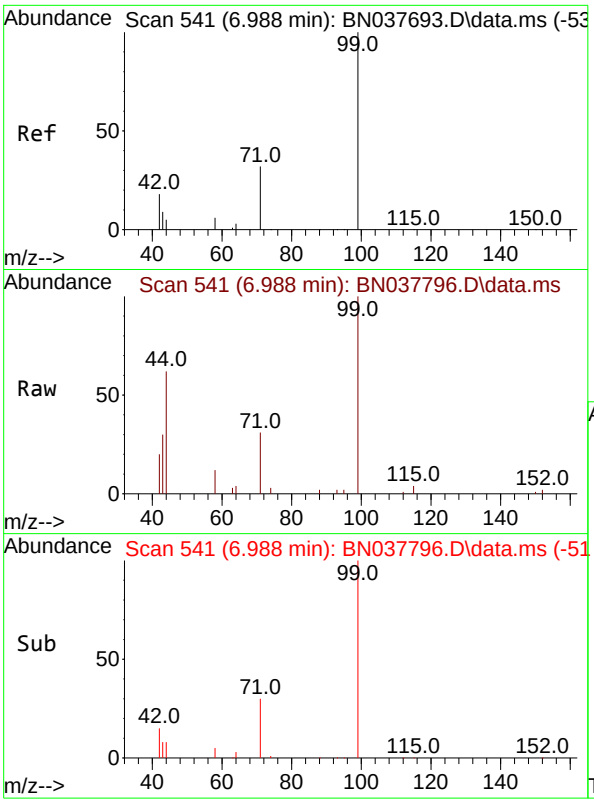




#4
2-Fluorophenol
Concen: 0.308 ng
RT: 5.399 min Scan# 321
Delta R.T. 0.000 min
Lab File: BN037796.D
Acq: 19 Sep 2025 03:24

Tgt Ion:112 Resp: 5446

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 112 | 100 | | |
| 64 | 54.6 | 44.9 | 67.3 |
| 63 | 29.7 | 24.7 | 37.1 |



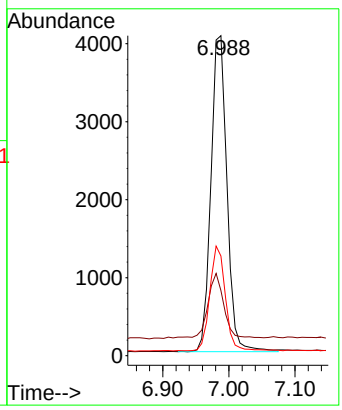


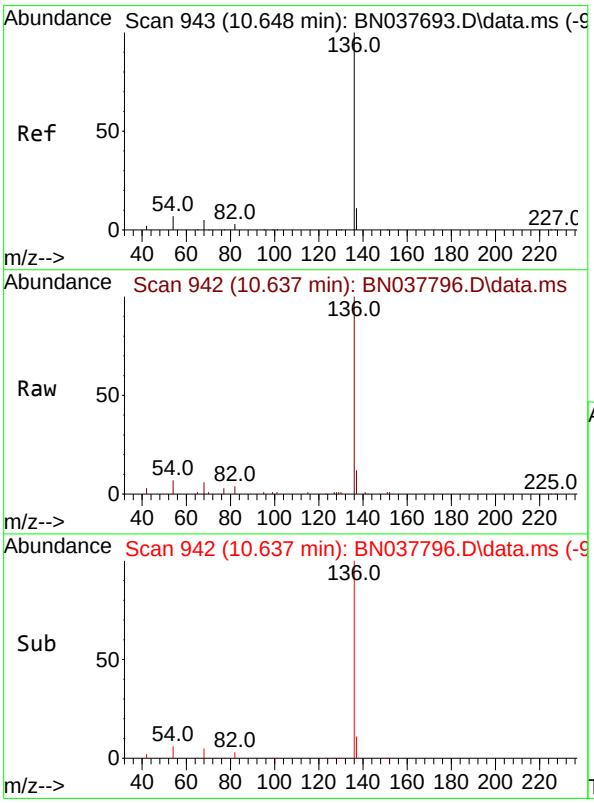

#5
Phenol-d6
Concen: 0.298 ng
RT: 6.988 min Scan# 54
Delta R.T. 0.000 min
Lab File: BN037796.D
Acq: 19 Sep 2025 03:24

**Instrument :**
BNA_N
**ClientSampleId :**
PB169692BL

Tgt Ion: 99 Resp: 6827

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 99 | 100 | | |
| 42 | 21.6 | 16.6 | 24.8 |
| 71 | 32.5 | 26.7 | 40.1 |

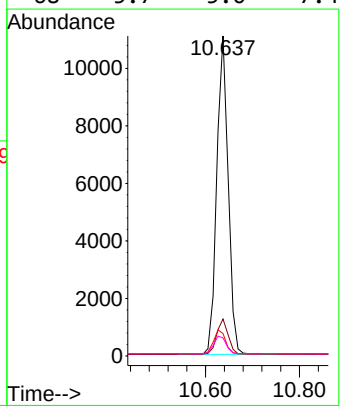


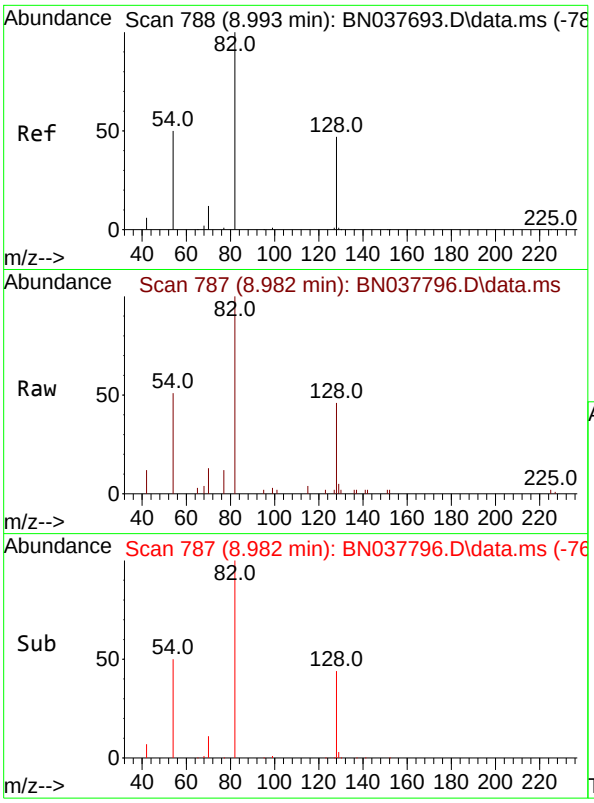




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.637 min Scan# 942
Delta R.T. -0.011 min
Lab File: BN037796.D
Acq: 19 Sep 2025 03:24

Tgt Ion:136 Resp: 18665

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 136 | 100 | | |
| 137 | 11.5 | 9.1 | 13.7 |
| 54 | 7.0 | 6.3 | 9.5 |
| 68 | 5.7 | 5.0 | 7.4 |



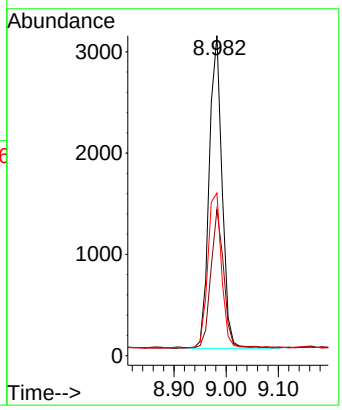


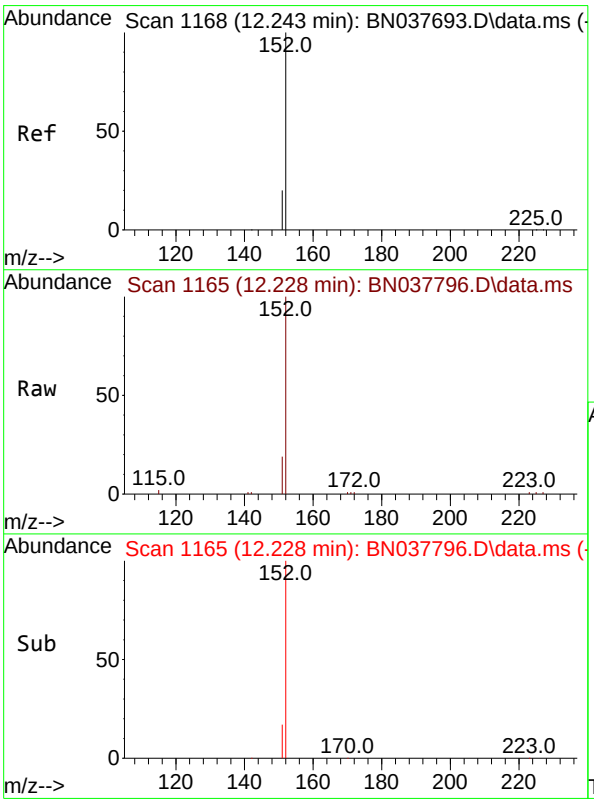

#8
Nitrobenzene-d5
Concen: 0.387 ng
RT: 8.982 min Scan# 7
Delta R.T. -0.011 min
Lab File: BN037796.D
Acq: 19 Sep 2025 03:24

**Instrument :**
BNA_N
**ClientSampleId :**
PB169692BL

Tgt Ion: 82 Resp: 5277

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 82 | 100 | | |
| 128 | 45.6 | 38.3 | 57.5 |
| 54 | 50.8 | 41.4 | 62.2 |

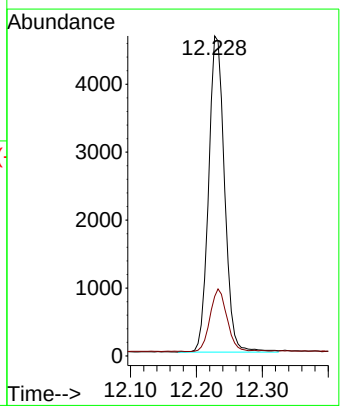


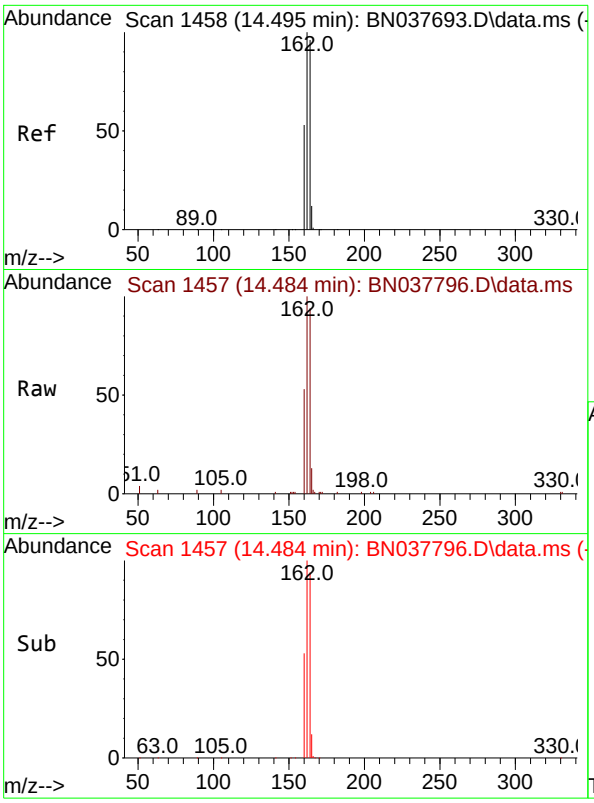




#11
2-Methylnaphthalene-d10
Concen: 0.314 ng
RT: 12.228 min Scan# 1165
Delta R.T. -0.015 min
Lab File: BN037796.D
Acq: 19 Sep 2025 03:24

Tgt Ion:152 Resp: 7773

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



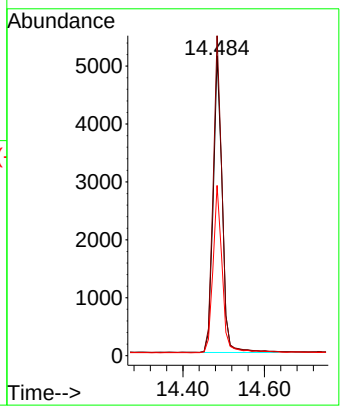


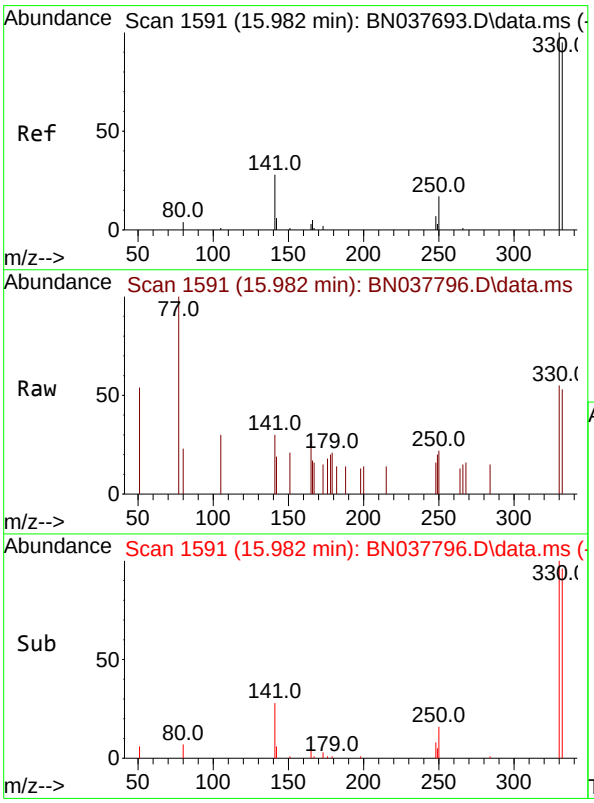

#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.484 min Scan# 14
Delta R.T. -0.011 min
Lab File: BN037796.D
Acq: 19 Sep 2025 03:24

**Instrument :**
BNA_N
**ClientSampleId :**
PB169692BL

Tgt Ion:164 Resp: 7806

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 164 | 100 | | |
| 162 | 106.6 | 83.1 | 124.7 |
| 160 | 56.7 | 44.3 | 66.5 |

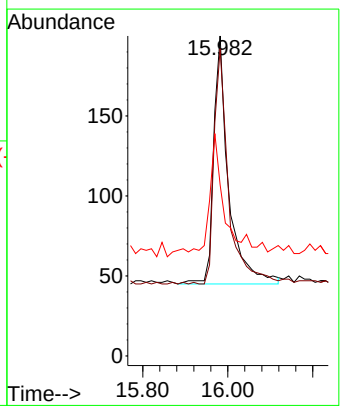


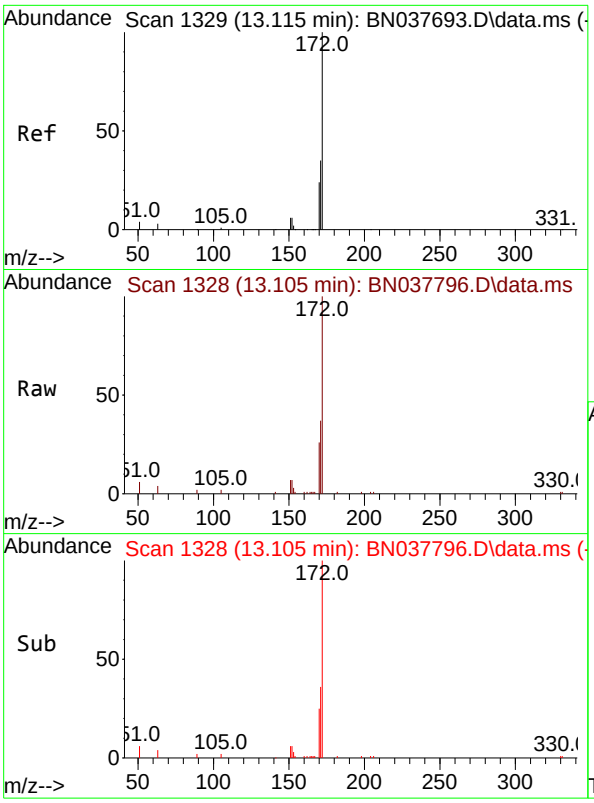




#14
2,4,6-Tribromophenol
Concen: 0.187 ng
RT: 15.982 min Scan# 1591
Delta R.T. -0.000 min
Lab File: BN037796.D
Acq: 19 Sep 2025 03:24

Tgt Ion:330 Resp: 380

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 330 | 100 | | |
| 332 | 91.6 | 75.3 | 112.9 |
| 141 | 47.4 | 35.0 | 52.4 |



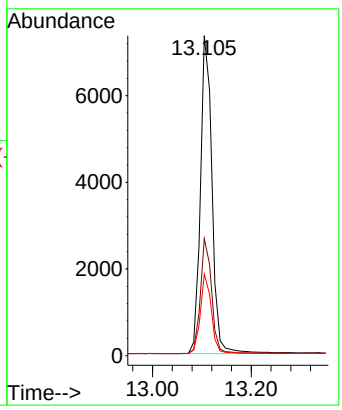


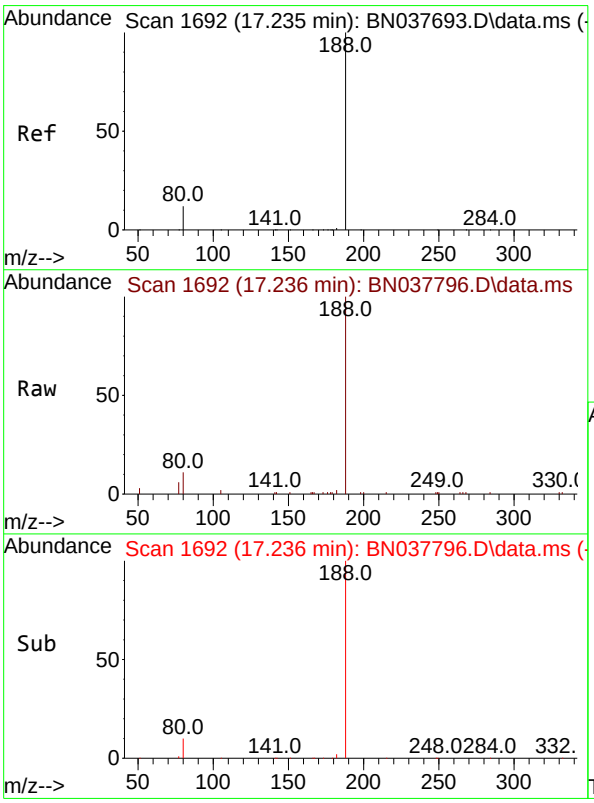

#15
2-Fluorobiphenyl
Concen: 0.367 ng
RT: 13.105 min Scan# 1
Delta R.T. -0.011 min
Lab File: BN037796.D
Acq: 19 Sep 2025 03:24

**Instrument :**
BNA_N
**ClientSampleId :**
PB169692BL

Tgt Ion:172 Resp: 11980

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 172 | 100 | | |
| 171 | 36.5 | 28.6 | 43.0 |
| 170 | 25.5 | 19.8 | 29.8 |

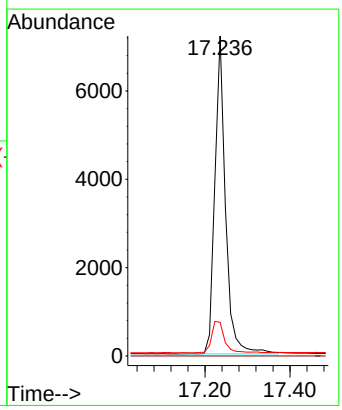


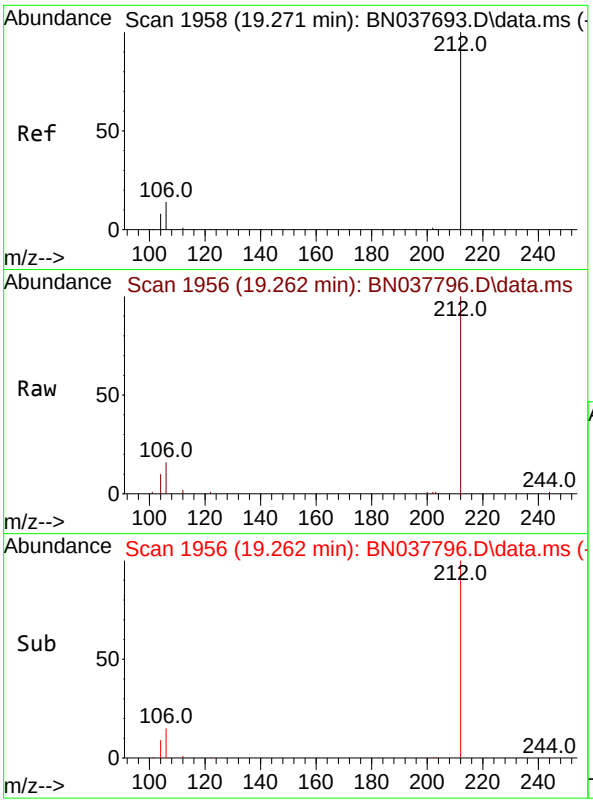




#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.236 min Scan# 1692
Delta R.T. 0.000 min
Lab File: BN037796.D
Acq: 19 Sep 2025 03:24

Tgt Ion:188 Resp: 12511

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 188 | 100 | | |
| 94 | 0.0 | 0.0 | 0.0 |
| 80 | 10.5 | 10.6 | 15.8# |



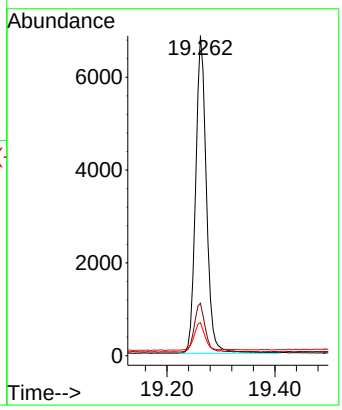


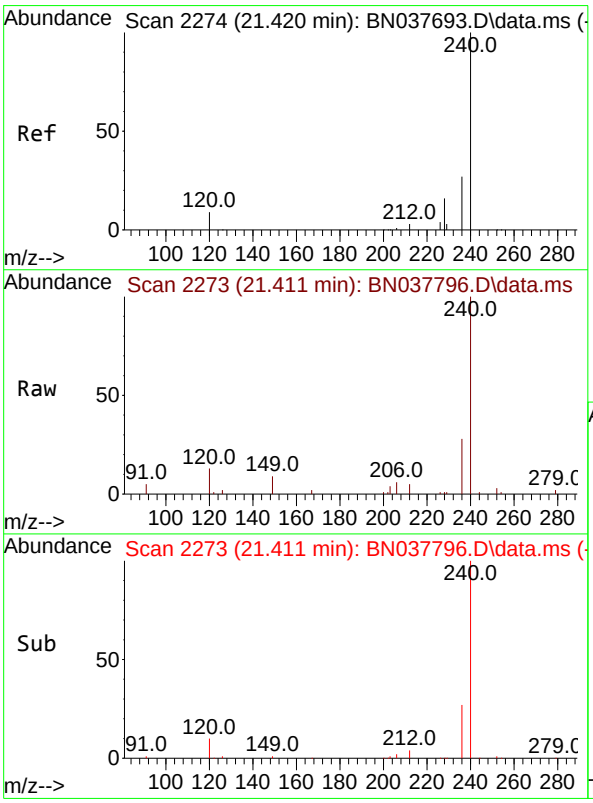

#27
Fluoranthene-d10
Concen: 0.302 ng
RT: 19.262 min Scan# 1
Delta R.T. -0.009 min
Lab File: BN037796.D
Acq: 19 Sep 2025 03:24

**Instrument :**
BNA_N
**ClientSampleId :**
PB169692BL

Tgt Ion:212 Resp: 9482

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 212 | 100 | | |
| 106 | 15.5 | 12.2 | 18.2 |
| 104 | 8.5 | 6.9 | 10.3 |

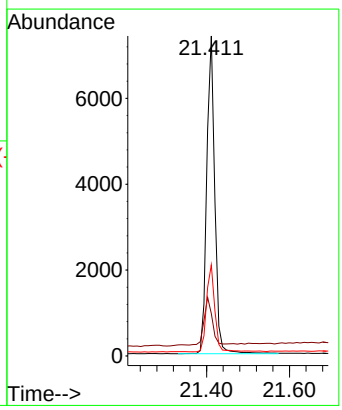


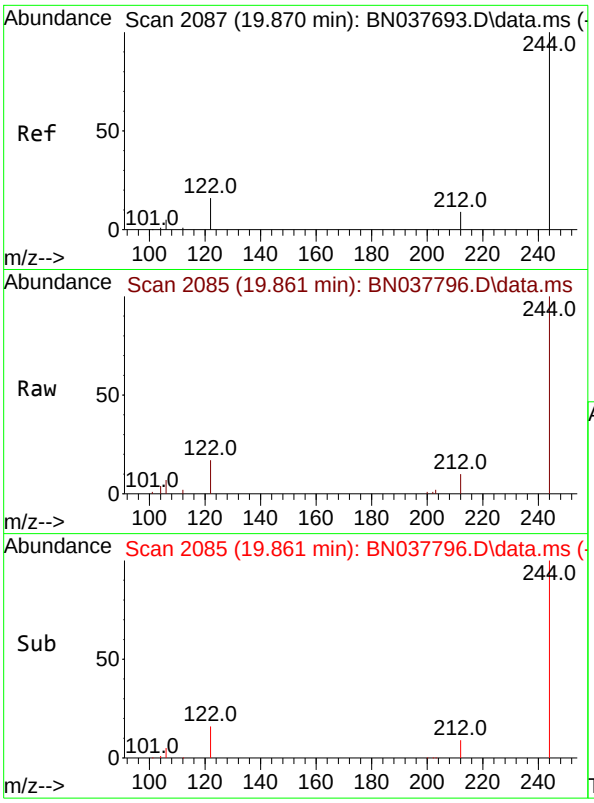




#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.411 min Scan# 2273
Delta R.T. -0.009 min
Lab File: BN037796.D
Acq: 19 Sep 2025 03:24

Tgt Ion:240 Resp: 10022

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 240 | 100 | | |
| 120 | 13.3 | 9.2 | 13.8 |
| 236 | 28.4 | 22.6 | 33.8 |



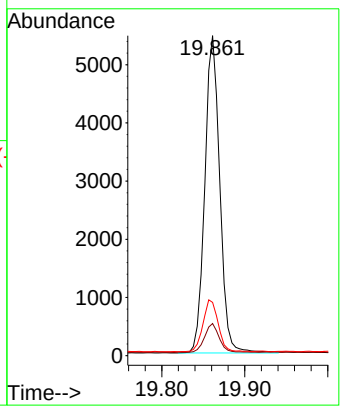


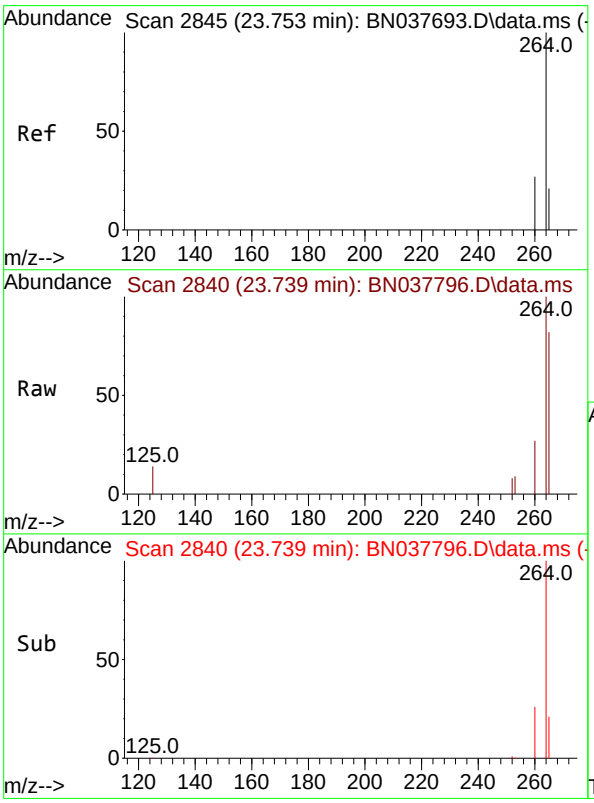

#31
Terphenyl-d14
Concen: 0.337 ng
RT: 19.861 min Scan# 2
Delta R.T. -0.009 min
Lab File: BN037796.D
Acq: 19 Sep 2025 03:24

**Instrument :**
BNA_N
**ClientSampleId :**
PB169692BL

Tgt Ion:244 Resp: 6849

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 244 | 100 | | |
| 212 | 10.1 | 7.5 | 11.3 |
| 122 | 16.6 | 13.2 | 19.8 |

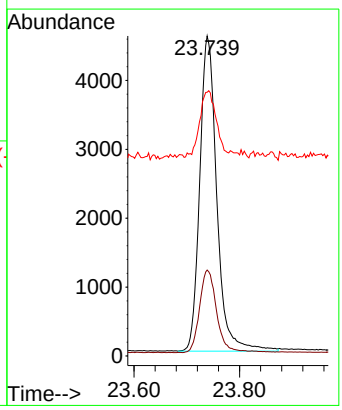



#35
Perylene-d12
Concen: 0.400 ng
RT: 23.739 min Scan# 2840
Delta R.T. -0.015 min
Lab File: BN037796.D
Acq: 19 Sep 2025 03:24

Tgt Ion:264 Resp: 10278

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 264 | 100 | | |
| 260 | 26.8 | 21.8 | 32.8 |
| 265 | 82.4 | 39.4 | 59.2# |



Raw Data: **BN037777.D**

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

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | AECOM Technical Services, Inc. | Date Collected: | |
| Project: | NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258 | Date Received: | |
| Client Sample ID: | PB169693BL | SDG No.: | Q3095 |
| Lab Sample ID: | PB169693BL | Matrix: | Water |
| Analytical Method: | SW8270ESIM | % Solid: | 0 |
| Sample Wt/Vol: | 1000 Units: mL | Final Vol: | 1000 uL |
| Soil Aliquot Vol: | uL | Test: | SVOC-SIMGroup1 |
| Extraction Type : | Decanted : N | Level : | LOW |
| Injection Volume : | GPC Factor : 1.0 | GPC Cleanup : | N PH : |
| Prep Method : | | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| BN037777.D | 1 | 09/15/25 12:00 | 09/18/25 15:10 | PB169693 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOD | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | | |
| 123-91-1 | 1,4-Dioxane | 0.20 | U | 0.070 | 0.20 | 0.20 | ug/L |
| **SURROGATES** | | | | | | | |
| 7297-45-2 | 2-Methylnaphthalene-d10 | 0.33 | | 30 - 150 | | 82% | SPK: 0.4 |
| 93951-69-0 | Fluoranthene-d10 | 0.32 | | 30 - 150 | | 80% | SPK: 0.4 |
| 4165-60-0 | Nitrobenzene-d5 | 0.38 | | 55 - 111 | | 96% | SPK: 0.4 |
| 321-60-8 | 2-Fluorobiphenyl | 0.40 | | 53 - 106 | | 99% | SPK: 0.4 |
| 1718-51-0 | Terphenyl-d14 | 0.36 | | 58 - 132 | | 90% | SPK: 0.4 |
| **INTERNAL STANDARDS** | | | | | | | |
| 3855-82-1 | 1,4-Dichlorobenzene-d4 | 6670 | 7.84 | | | | |
| 1146-65-2 | Naphthalene-d8 | 17000 | 10.637 | | | | |
| 15067-26-2 | Acenaphthene-d10 | 7050 | 14.484 | | | | |
| 1517-22-2 | Phenanthrene-d10 | 11700 | 17.236 | | | | |
| 1719-03-5 | Chrysene-d12 | 9220 | 21.411 | | | | |
| 1520-96-3 | Perylene-d12 | 9000 | 23.75 | | | | |

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\BN091825\
Data File : BN037777.D
Acq On : 18 Sep 2025 15:10
Operator : RC/JU
Sample : PB169693BL
Misc :
ALS Vial : 3 Sample Multiplier: 1

**Instrument :**
BNA_N
**ClientSampleId :**
PB169693BL

Quant Time: Sep 18 15:49:26 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN091125.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Sep 11 14:20:01 2025
Response via : Initial Calibration

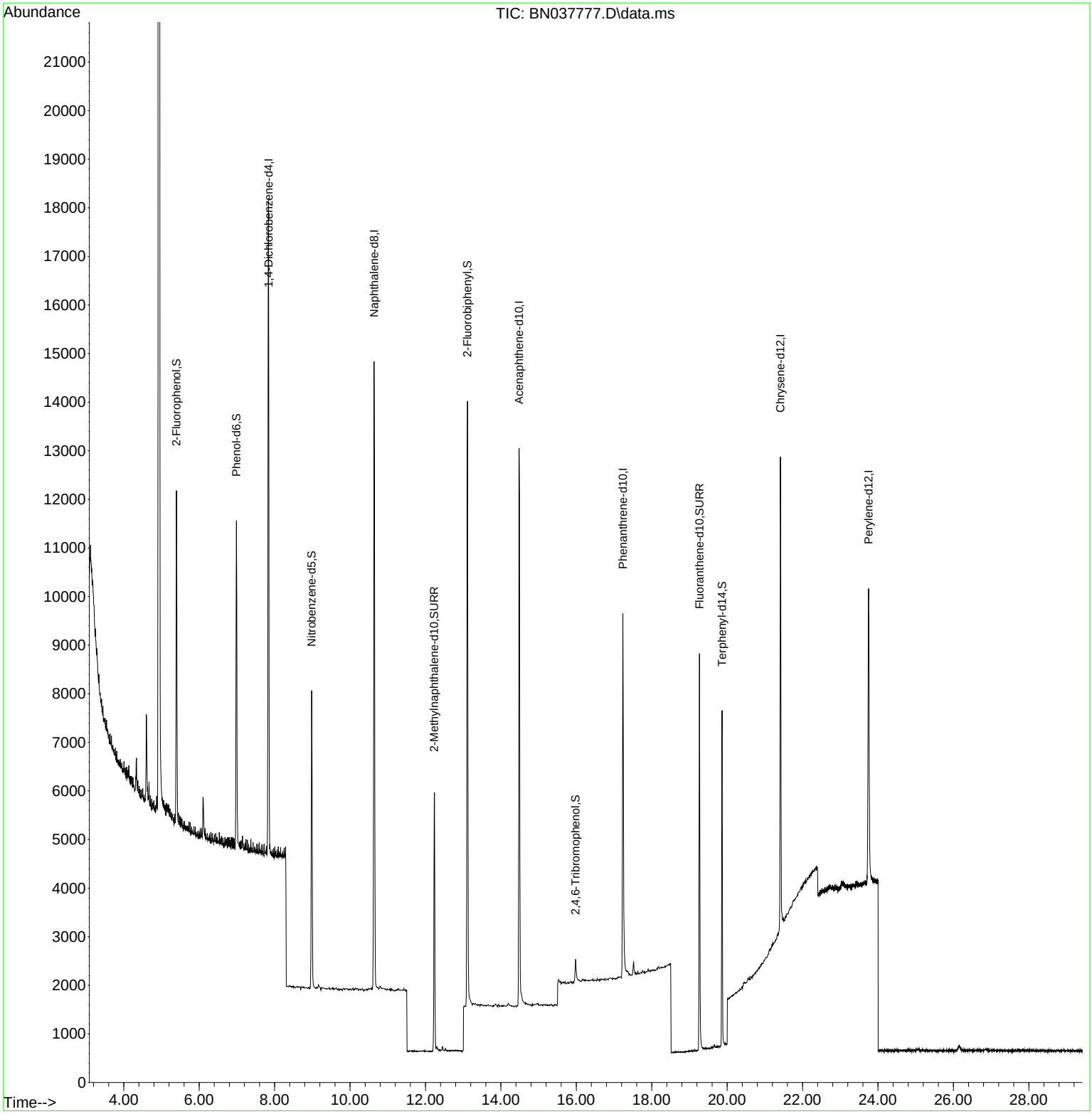
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) 1,4-Dichlorobenzene-d4 | 7.840 | 152 | 6667 | 0.400 | ng | 0.00 |
| 7) Naphthalene-d8 | 10.637 | 136 | 17045 | 0.400 | ng | -0.01 |
| 13) Acenaphthene-d10 | 14.484 | 164 | 7049 | 0.400 | ng | -0.01 |
| 19) Phenanthrene-d10 | 17.236 | 188 | 11652 | 0.400 | ng | 0.00 |
| 29) Chrysene-d12 | 21.411 | 240 | 9221 | 0.400 | ng | # 0.00 |
| 35) Perylene-d12 | 23.750 | 264 | 9002 | 0.400 | ng | # 0.00 |
| System Monitoring Compounds | | | | | | |
| 4) 2-Fluorophenol | 5.399 | 112 | 5270 | 0.344 | ng | 0.00 |
| 5) Phenol-d6 | 6.988 | 99 | 6284 | 0.317 | ng | 0.00 |
| 8) Nitrobenzene-d5 | 8.982 | 82 | 4777 | 0.383 | ng | -0.01 |
| 11) 2-Methylnaphthalene-d10 | 12.233 | 152 | 7427 | 0.329 | ng | -0.01 |
| 14) 2,4,6-Tribromophenol | 15.982 | 330 | 384 | 0.209 | ng | 0.00 |
| 15) 2-Fluorobiphenyl | 13.116 | 172 | 11632 | 0.395 | ng | 0.00 |
| 27) Fluoranthene-d10 | 19.267 | 212 | 9319 | 0.319 | ng | 0.00 |
| 31) Terphenyl-d14 | 19.866 | 244 | 6747 | 0.361 | ng | 0.00 |
| Target Compounds | | | | | | Qvalue |

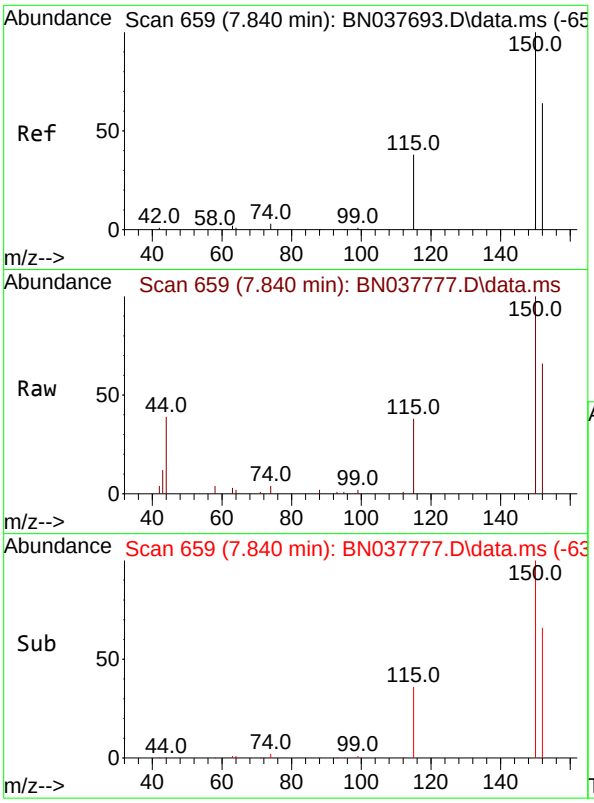
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN091825\
Data File : BN037777.D
Acq On : 18 Sep 2025 15:10
Operator : RC/JU
Sample : PB169693BL
Misc :
ALS Vial : 3 Sample Multiplier: 1

**Instrument :**
BNA_N
**ClientSampleId :**
PB169693BL

Quant Time: Sep 18 15:49:26 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN091125.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Sep 11 14:20:01 2025
Response via : Initial Calibration



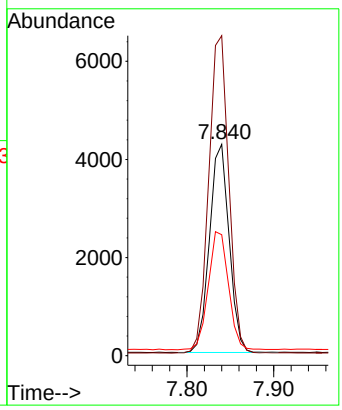


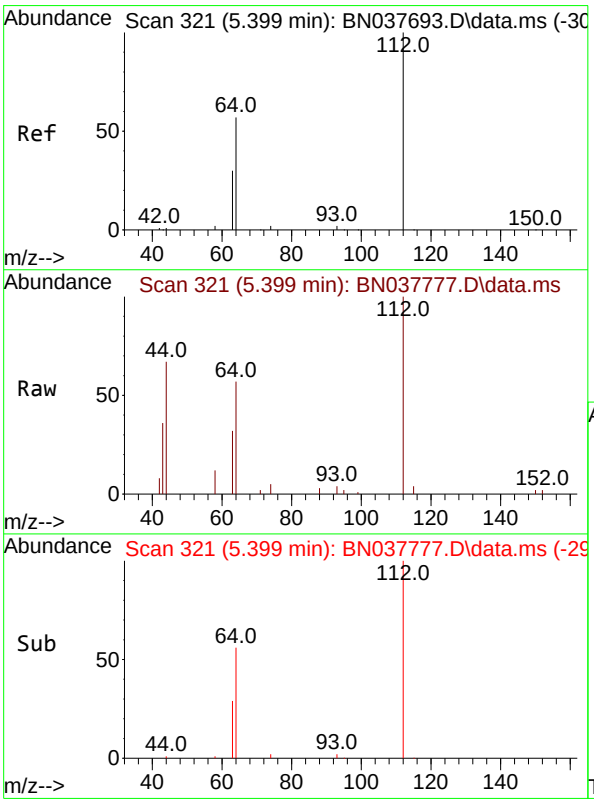

#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.840 min Scan# 6
Delta R.T. 0.000 min
Lab File: BN037777.D
Acq: 18 Sep 2025 15:10

**Instrument :**
BNA_N
**ClientSampleId :**
PB169693BL

Tgt Ion:152 Resp: 6667

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 150 | 151.3 | 124.5 | 186.7 |
| 115 | 57.2 | 49.2 | 73.8 |

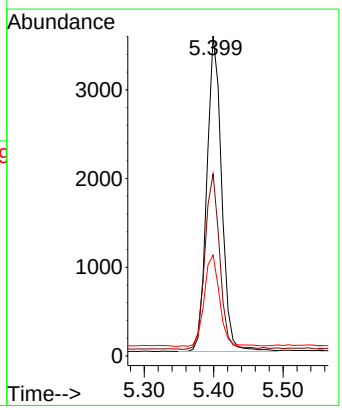


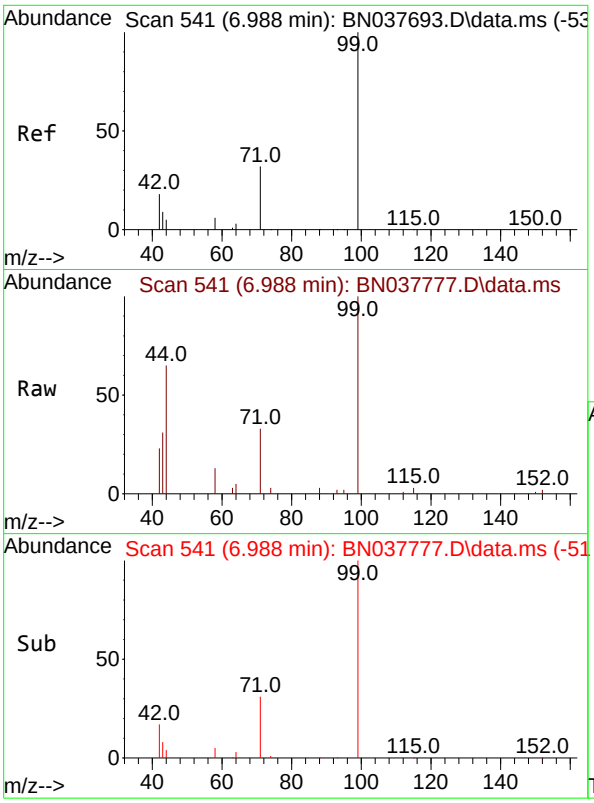




#4
2-Fluorophenol
Concen: 0.344 ng
RT: 5.399 min Scan# 321
Delta R.T. 0.000 min
Lab File: BN037777.D
Acq: 18 Sep 2025 15:10

Tgt Ion:112 Resp: 5270

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 112 | 100 | | |
| 64 | 55.6 | 44.9 | 67.3 |
| 63 | 30.1 | 24.7 | 37.1 |



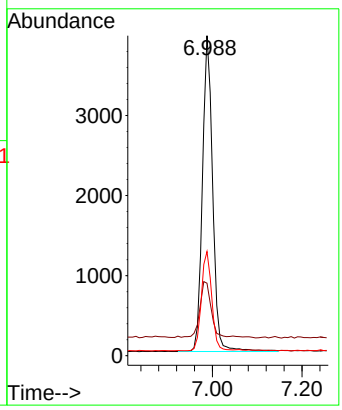


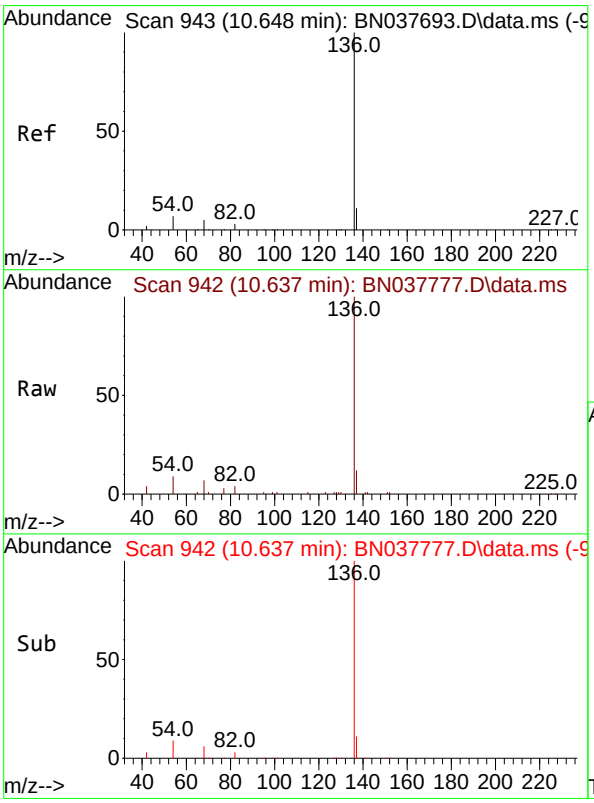

#5
Phenol-d6
Concen: 0.317 ng
RT: 6.988 min Scan# 54
Delta R.T. 0.000 min
Lab File: BN037777.D
Acq: 18 Sep 2025 15:10

**Instrument :**
BNA_N
**ClientSampleId :**
PB169693BL

Tgt Ion: 99 Resp: 6284

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 99 | 100 | | |
| 42 | 19.0 | 16.6 | 24.8 |
| 71 | 31.6 | 26.7 | 40.1 |

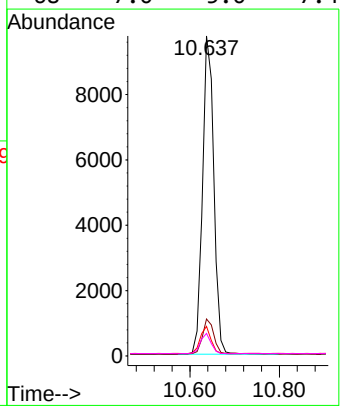


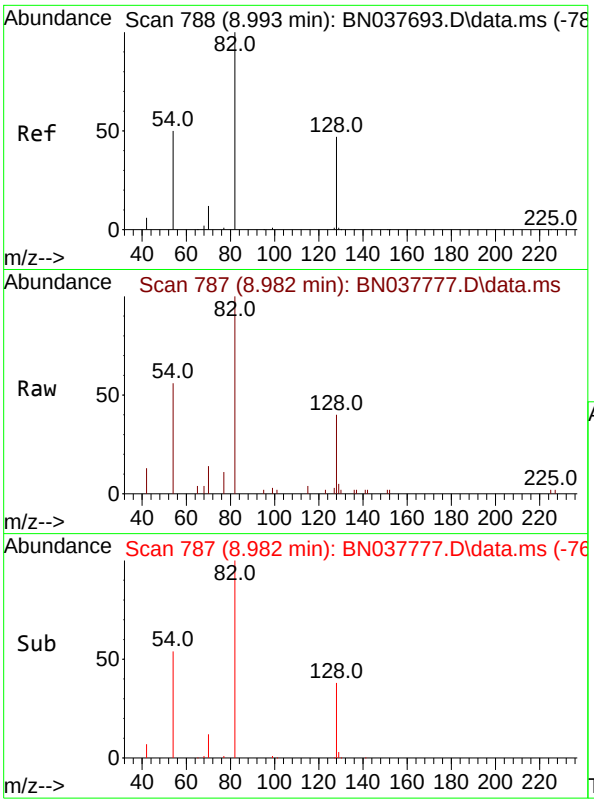




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.637 min Scan# 942
Delta R.T. -0.011 min
Lab File: BN037777.D
Acq: 18 Sep 2025 15:10

Tgt Ion:136 Resp: 17045

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 136 | 100 | | |
| 137 | 11.5 | 9.1 | 13.7 |
| 54 | 9.3 | 6.3 | 9.5 |
| 68 | 7.0 | 5.0 | 7.4 |



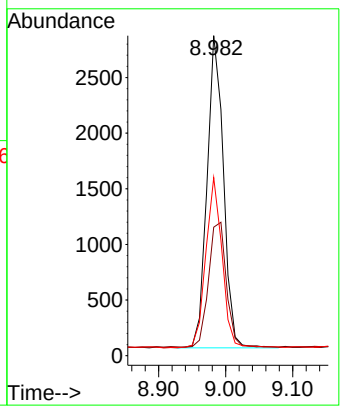


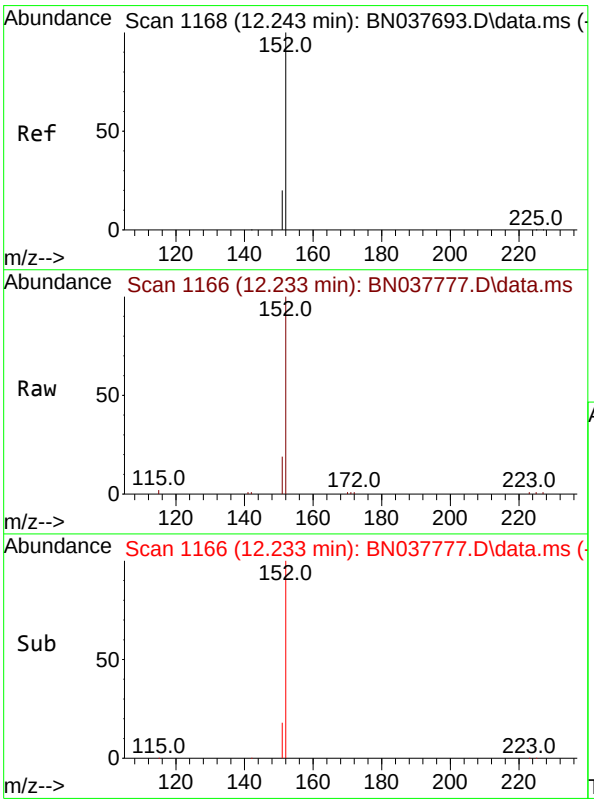

#8
Nitrobenzene-d5
Concen: 0.383 ng
RT: 8.982 min Scan# 7
Delta R.T. -0.011 min
Lab File: BN037777.D
Acq: 18 Sep 2025 15:10

**Instrument :**
BNA_N
**ClientSampleId :**
PB169693BL

Tgt Ion: 82 Resp: 4777

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 82 | 100 | | |
| 128 | 40.2 | 38.3 | 57.5 |
| 54 | 55.6 | 41.4 | 62.2 |

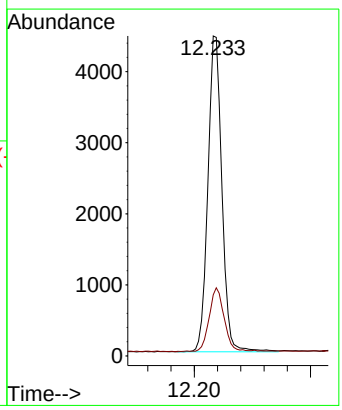


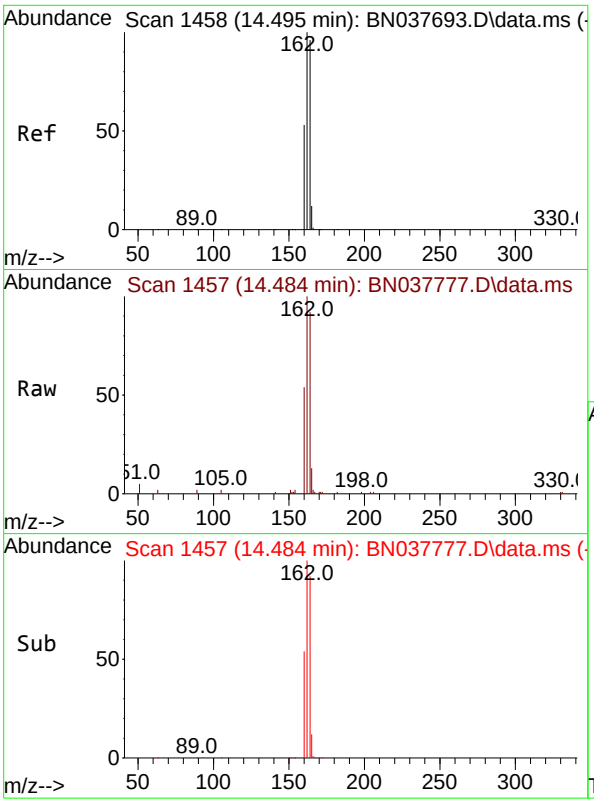




#11
2-Methylnaphthalene-d10
Concen: 0.329 ng
RT: 12.233 min Scan# 1166
Delta R.T. -0.010 min
Lab File: BN037777.D
Acq: 18 Sep 2025 15:10

Tgt Ion:152 Resp: 7427

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



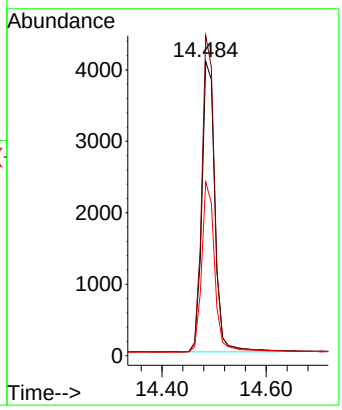


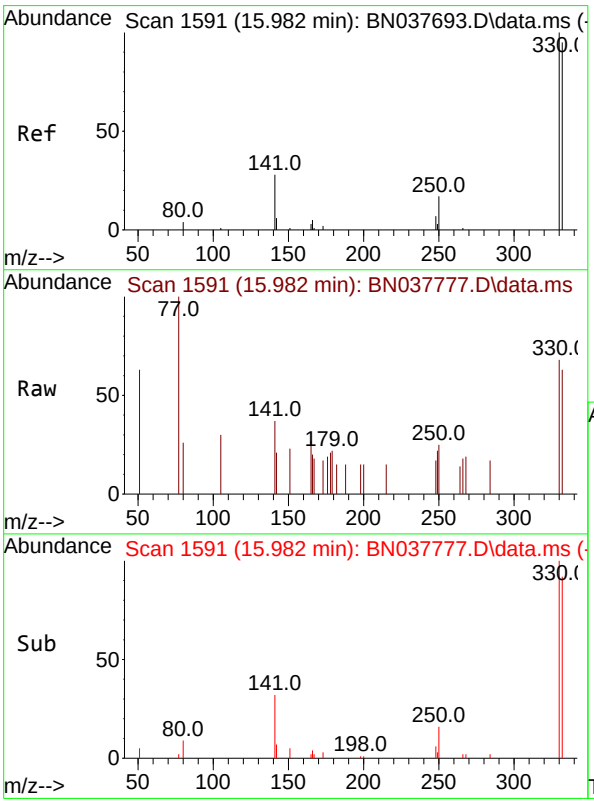

#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.484 min Scan# 14
Delta R.T. -0.011 min
Lab File: BN037777.D
Acq: 18 Sep 2025 15:10

**Instrument :**
BNA_N
**ClientSampleId :**
PB169693BL

Tgt Ion:164 Resp: 7049

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 164 | 100 | | |
| 162 | 108.8 | 83.1 | 124.7 |
| 160 | 59.1 | 44.3 | 66.5 |

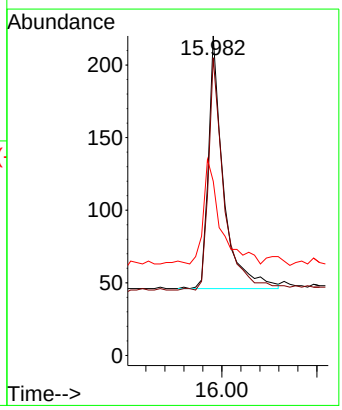


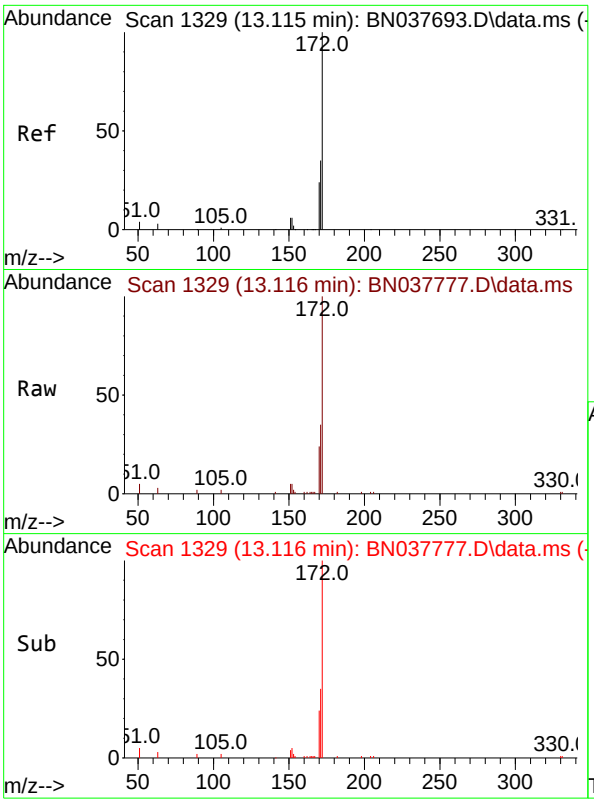




#14
2,4,6-Tribromophenol
Concen: 0.209 ng
RT: 15.982 min Scan# 1591
Delta R.T. -0.000 min
Lab File: BN037777.D
Acq: 18 Sep 2025 15:10

Tgt Ion:330 Resp: 384

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 330 | 100 | | |
| 332 | 94.0 | 75.3 | 112.9 |
| 141 | 46.1 | 35.0 | 52.4 |



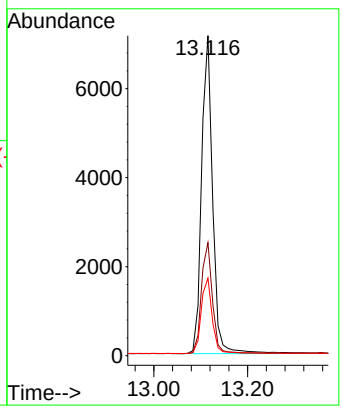


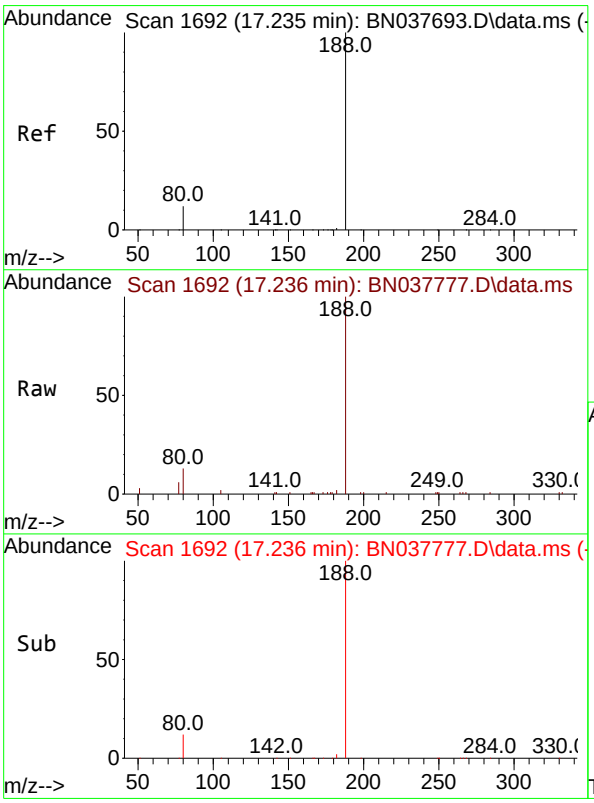

#15
2-Fluorobiphenyl
Concen: 0.395 ng
RT: 13.116 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN037777.D
Acq: 18 Sep 2025 15:10

**Instrument :**
BNA_N
**ClientSampleId :**
PB169693BL

Tgt Ion:172 Resp: 11632

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 172 | 100 | | |
| 171 | 35.3 | 28.6 | 43.0 |
| 170 | 24.2 | 19.8 | 29.8 |

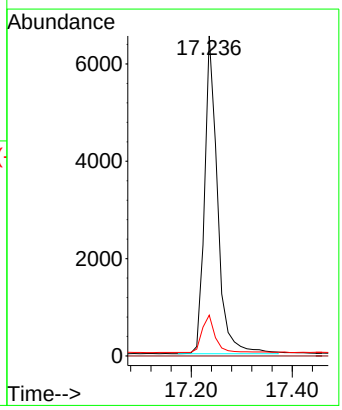


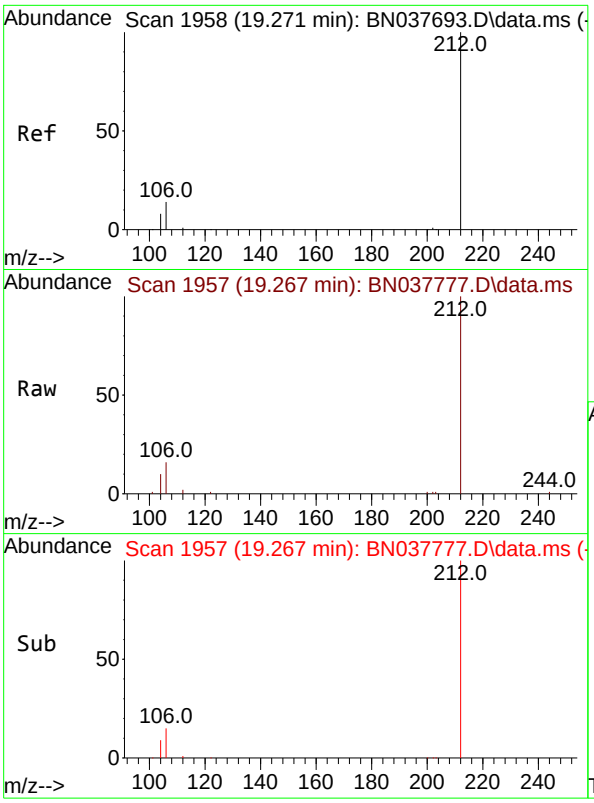




#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.236 min Scan# 1692
Delta R.T. 0.000 min
Lab File: BN037777.D
Acq: 18 Sep 2025 15:10

Tgt Ion:188 Resp: 11652

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 188 | 100 | | |
| 94 | 0.0 | 0.0 | 0.0 |
| 80 | 12.7 | 10.6 | 15.8 |



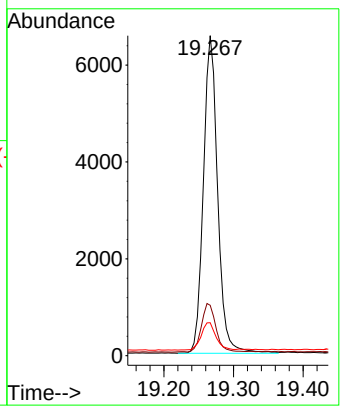


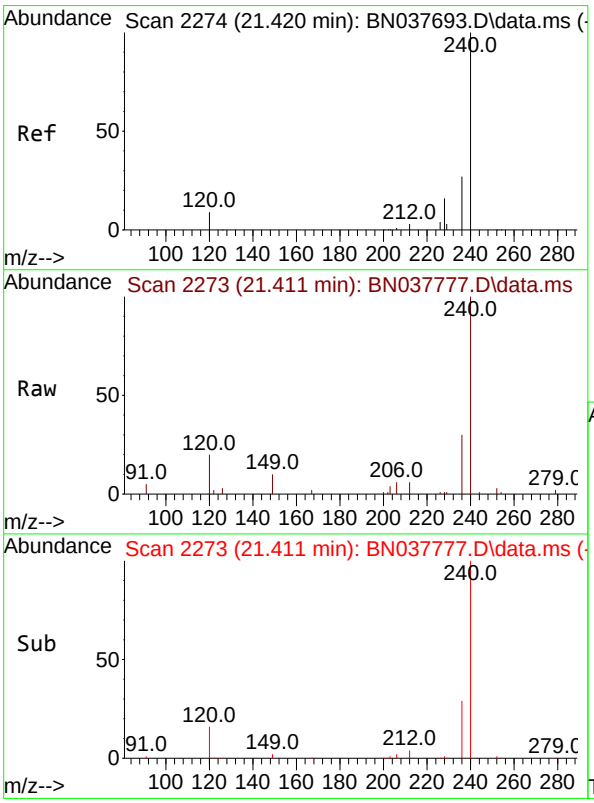

#27
Fluoranthene-d10
Concen: 0.319 ng
RT: 19.267 min Scan# 1
Delta R.T. -0.005 min
Lab File: BN037777.D
Acq: 18 Sep 2025 15:10

**Instrument :**
BNA_N
**ClientSampleId :**
PB169693BL

Tgt Ion:212 Resp: 9319

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 212 | 100 | | |
| 106 | 15.7 | 12.2 | 18.2 |
| 104 | 8.9 | 6.9 | 10.3 |

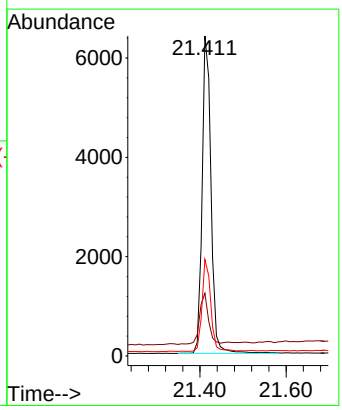


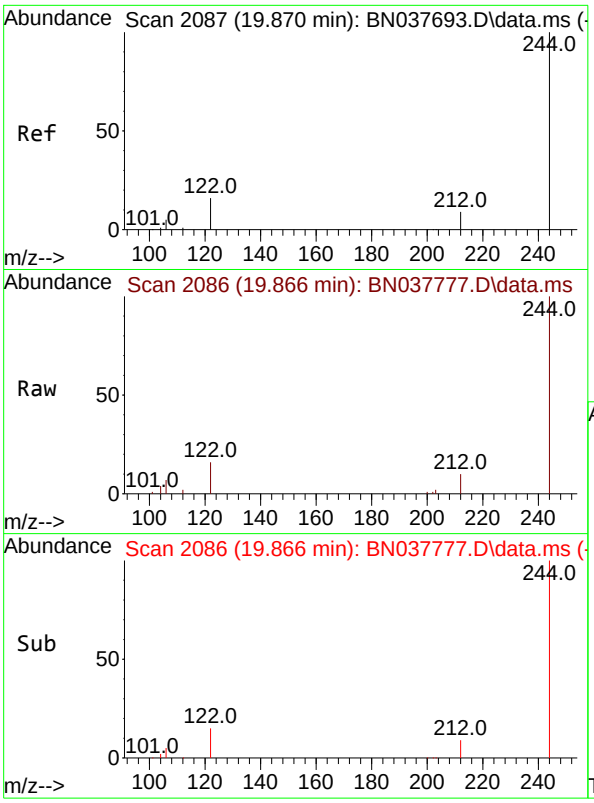




#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.411 min Scan# 2273
Delta R.T. -0.009 min
Lab File: BN037777.D
Acq: 18 Sep 2025 15:10

Tgt Ion:240 Resp: 9221

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 240 | 100 | | |
| 120 | 19.6 | 9.2 | 13.8# |
| 236 | 30.1 | 22.6 | 33.8 |



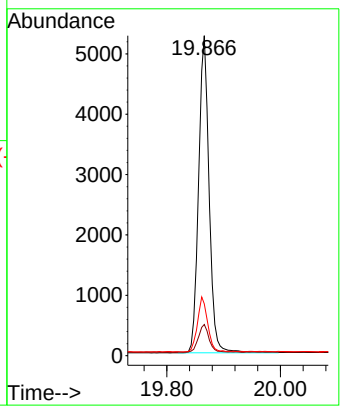


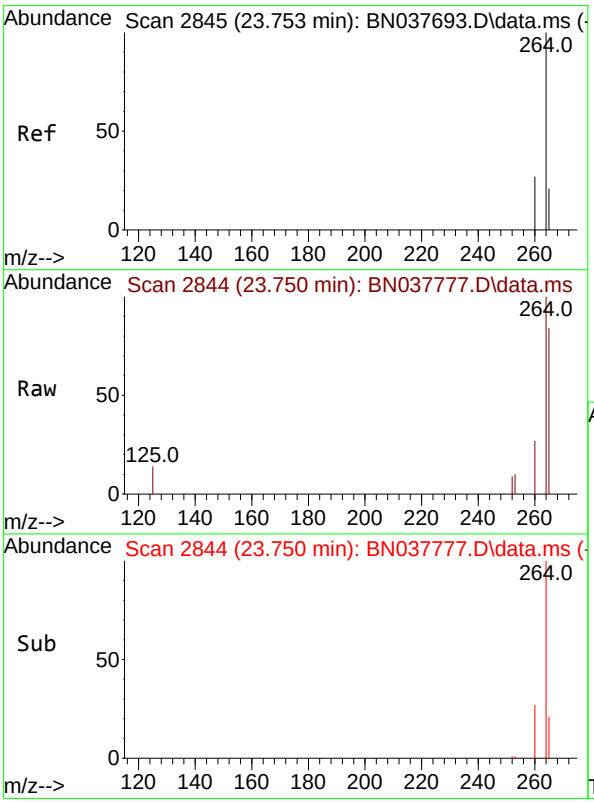

#31
Terphenyl-d14
Concen: 0.361 ng
RT: 19.866 min Scan# 2
Delta R.T. -0.005 min
Lab File: BN037777.D
Acq: 18 Sep 2025 15:10

**Instrument :**
BNA_N
**ClientSampleId :**
PB169693BL

Tgt Ion:244 Resp: 6747

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 244 | 100 | | |
| 212 | 9.8 | 7.5 | 11.3 |
| 122 | 16.2 | 13.2 | 19.8 |

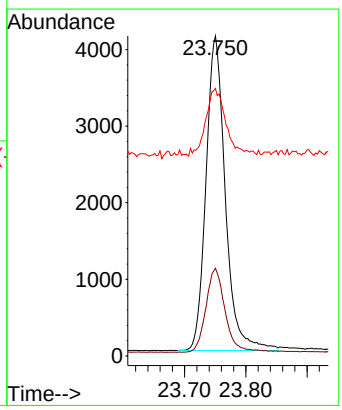



#35
Perylene-d12
Concen: 0.400 ng
RT: 23.750 min Scan# 2844
Delta R.T. -0.003 min
Lab File: BN037777.D
Acq: 18 Sep 2025 15:10

Tgt Ion:264 Resp: 9002

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 264 | 100 | | |
| 260 | 27.4 | 21.8 | 32.8 |
| 265 | 83.6 | 39.4 | 59.2# |



Raw Data: **BN037791.D**

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

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | AECOM Technical Services, Inc. | Date Collected: | |
| Project: | NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258 | Date Received: | |
| Client Sample ID: | PB169692BS | SDG No.: | Q3095 |
| Lab Sample ID: | PB169692BS | Matrix: | Water |
| Analytical Method: | SW8270ESIM | % Solid: | 0 |
| Sample Wt/Vol: | 1000 Units: mL | Final Vol: | 1000 uL |
| Soil Aliquot Vol: | uL | Test: | SVOC-SIMGroup1 |
| Extraction Type : | Decanted : N | Level : | LOW |
| Injection Volume : | GPC Factor : 1.0 | GPC Cleanup : | N PH : |
| Prep Method : | | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| BN037791.D | 1 | 09/15/25 10:15 | 09/18/25 23:40 | PB169692 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOD | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | | |
| 123-91-1 | 1,4-Dioxane | 0.30 | | 0.070 | 0.20 | 0.20 | ug/L |
| **SURROGATES** | | | | | | | |
| 7297-45-2 | 2-Methylnaphthalene-d10 | 0.30 | | 30 - 150 | | 76% | SPK: 0.4 |
| 93951-69-0 | Fluoranthene-d10 | 0.30 | | 30 - 150 | | 75% | SPK: 0.4 |
| 4165-60-0 | Nitrobenzene-d5 | 0.35 | | 55 - 111 | | 88% | SPK: 0.4 |
| 321-60-8 | 2-Fluorobiphenyl | 0.36 | | 53 - 106 | | 90% | SPK: 0.4 |
| 1718-51-0 | Terphenyl-d14 | 0.31 | | 58 - 132 | | 78% | SPK: 0.4 |
| **INTERNAL STANDARDS** | | | | | | | |
| 3855-82-1 | 1,4-Dichlorobenzene-d4 | 6980 | 7.833 | | | | |
| 1146-65-2 | Naphthalene-d8 | 18100 | 10.637 | | | | |
| 15067-26-2 | Acenaphthene-d10 | 7730 | 14.484 | | | | |
| 1517-22-2 | Phenanthrene-d10 | 12300 | 17.235 | | | | |
| 1719-03-5 | Chrysene-d12 | 10600 | 21.411 | | | | |
| 1520-96-3 | Perylene-d12 | 10800 | 23.739 | | | | |

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\BN091825\
Data File : BN037791.D
Acq On : 18 Sep 2025 23:40
Operator : RC/JU
Sample : PB169692BS
Misc :
ALS Vial : 17 Sample Multiplier: 1

**Instrument :**
BNA_N
**ClientSampleId :**
PB169692BS

Quant Time: Sep 19 04:12:31 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN091125.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Sep 11 14:20:01 2025
Response via : Initial Calibration

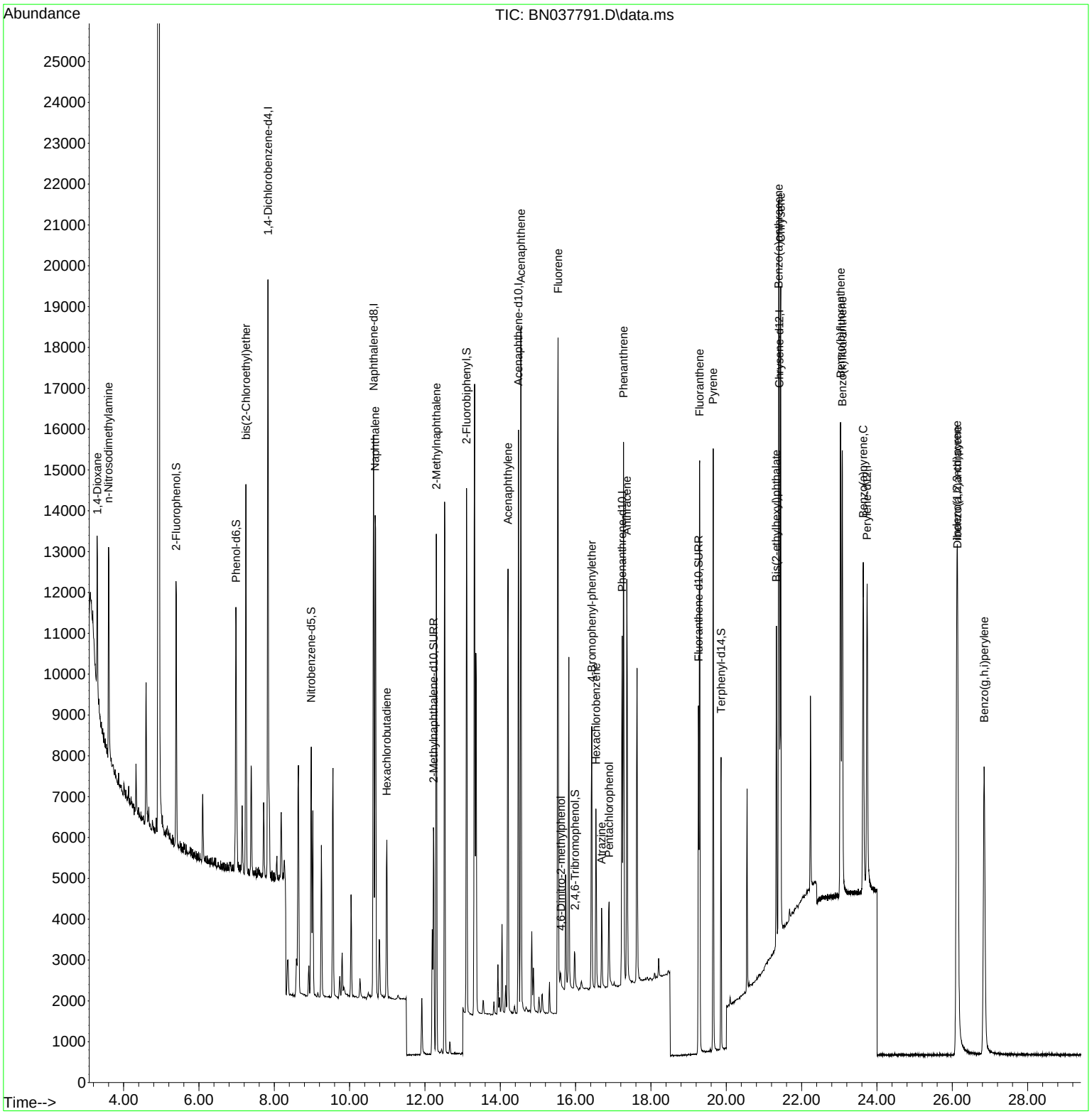
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) 1,4-Dichlorobenzene-d4 | 7.833 | 152 | 6983 | 0.400 | ng | 0.00 |
| 7) Naphthalene-d8 | 10.637 | 136 | 18103 | 0.400 | ng | -0.01 |
| 13) Acenaphthene-d10 | 14.484 | 164 | 7729 | 0.400 | ng | -0.01 |
| 19) Phenanthrene-d10 | 17.235 | 188 | 12277 | 0.400 | ng | # 0.00 |
| 29) Chrysene-d12 | 21.411 | 240 | 10644 | 0.400 | ng | 0.00 |
| 35) Perylene-d12 | 23.739 | 264 | 10808 | 0.400 | ng | #-0.01 |
| System Monitoring Compounds | | | | | | |
| 4) 2-Fluorophenol | 5.399 | 112 | 5108 | 0.319 | ng | 0.00 |
| 5) Phenol-d6 | 6.988 | 99 | 5999 | 0.289 | ng | 0.00 |
| 8) Nitrobenzene-d5 | 8.982 | 82 | 4664 | 0.352 | ng | -0.01 |
| 11) 2-Methylnaphthalene-d10 | 12.228 | 152 | 7264 | 0.303 | ng | -0.02 |
| 14) 2,4,6-Tribromophenol | 15.982 | 330 | 683 | 0.339 | ng | 0.00 |
| 15) 2-Fluorobiphenyl | 13.105 | 172 | 11595 | 0.359 | ng | -0.01 |
| 27) Fluoranthene-d10 | 19.262 | 212 | 9242 | 0.300 | ng | 0.00 |
| 31) Terphenyl-d14 | 19.861 | 244 | 6760 | 0.313 | ng | 0.00 |
| Target Compounds | | | | | | Qvalue |
| 2) 1,4-Dioxane | 3.304 | 88 | 2203 | 0.303 | ng | # 78 |
| 3) n-Nitrosodimethylamine | 3.601 | 42 | 3019 | 0.318 | ng | # 87 |
| 6) bis(2-Chloroethyl)ether | 7.248 | 93 | 6388 | 0.344 | ng | 100 |
| 9) Naphthalene | 10.680 | 128 | 16538 | 0.334 | ng | 99 |
| 10) Hexachlorobutadiene | 10.989 | 225 | 3164 | 0.353 | ng | # 97 |
| 12) 2-Methylnaphthalene | 12.304 | 142 | 9026 | 0.295 | ng | 99 |
| 16) Acenaphthylene | 14.206 | 152 | 12644 | 0.357 | ng | 99 |
| 17) Acenaphthene | 14.548 | 154 | 7865 | 0.328 | ng | 98 |
| 18) Fluorene | 15.535 | 166 | 8960 | 0.309 | ng | 98 |
| 20) 4,6-Dinitro-2-methylph... | 15.609 | 198 | 325 | 0.286 | ng | # 83 |
| 21) 4-Bromophenyl-phenylether | 16.429 | 248 | 2787 | 0.348 | ng | # 93 |
| 22) Hexachlorobenzene | 16.540 | 284 | 3452 | 0.375 | ng | 97 |
| 23) Atrazine | 16.689 | 200 | 1725 | 0.339 | ng | # 94 |
| 24) Pentachlorophenol | 16.888 | 266 | 1262 | 0.472 | ng | 98 |
| 25) Phenanthrene | 17.273 | 178 | 13331 | 0.345 | ng | 100 |
| 26) Anthracene | 17.360 | 178 | 11823 | 0.345 | ng | 99 |
| 28) Fluoranthene | 19.294 | 202 | 13219 | 0.312 | ng | 99 |
| 30) Pyrene | 19.652 | 202 | 13196 | 0.317 | ng | 100 |
| 32) Benzo(a)anthracene | 21.393 | 228 | 13045 | 0.351 | ng | 99 |
| 33) Chrysene | 21.447 | 228 | 13977 | 0.351 | ng | 98 |
| 34) Bis(2-ethylhexyl)phtha... | 21.331 | 149 | 3840 | 0.349 | ng | 99 |
| 36) Indeno(1,2,3-cd)pyrene | 26.121 | 276 | 18272 | 0.402 | ng | 98 |
| 37) Benzo(b)fluoranthene | 23.034 | 252 | 15074 | 0.354 | ng | # 95 |
| 38) Benzo(k)fluoranthene | 23.081 | 252 | 15430 | 0.356 | ng | # 95 |
| 39) Benzo(a)pyrene | 23.636 | 252 | 13066 | 0.383 | ng | # 93 |
| 40) Dibenzo(a,h)anthracene | 26.142 | 278 | 14014 | 0.387 | ng | 98 |
| 41) Benzo(g,h,i)perylene | 26.846 | 276 | 15625 | 0.384 | ng | 98 |

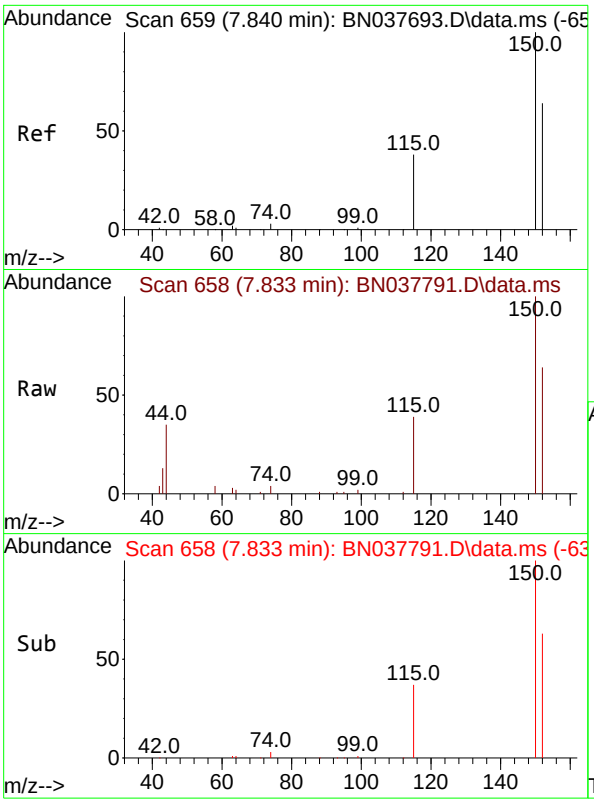
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN091825\
Data File : BN037791.D
Acq On : 18 Sep 2025 23:40
Operator : RC/JU
Sample : PB169692BS
Misc :
ALS Vial : 17 Sample Multiplier: 1

**Instrument :**
BNA_N
**ClientSampleId :**
PB169692BS

Quant Time: Sep 19 04:12:31 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN091125.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Sep 11 14:20:01 2025
Response via : Initial Calibration



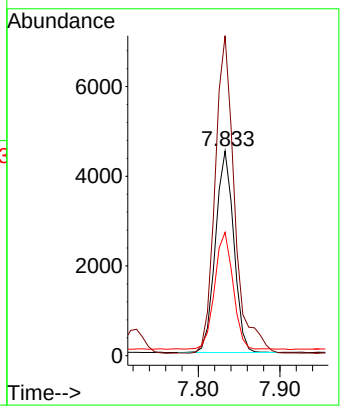


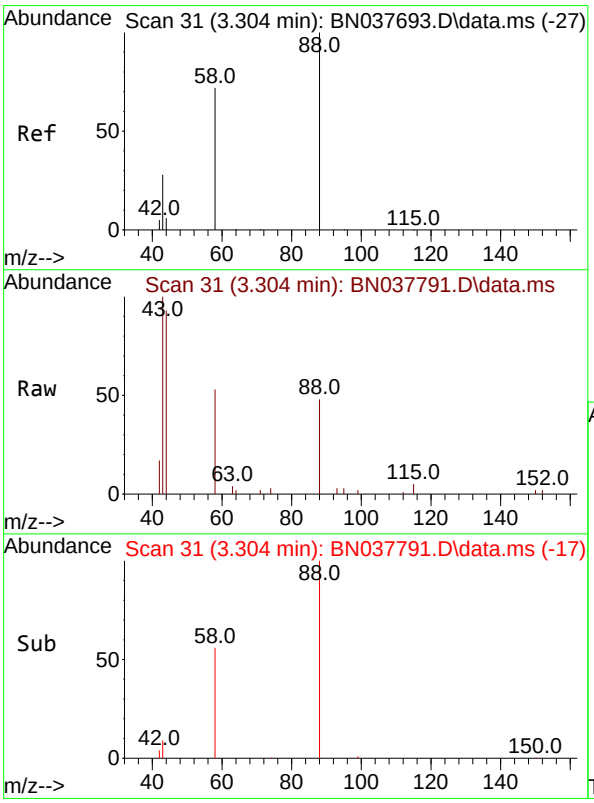

#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.833 min Scan# 6
Delta R.T. -0.007 min
Lab File: BN037791.D
Acq: 18 Sep 2025 23:40

**Instrument :**
BNA_N
**ClientSampleId :**
PB169692BS

Tgt Ion:152 Resp: 6983

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 150 | 156.4 | 124.5 | 186.7 |
| 115 | 60.3 | 49.2 | 73.8 |

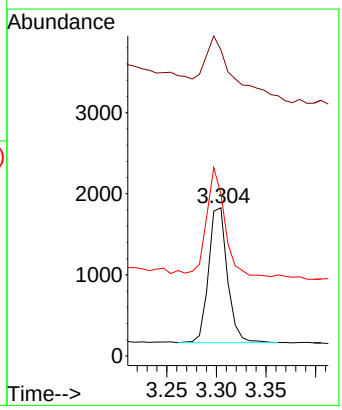


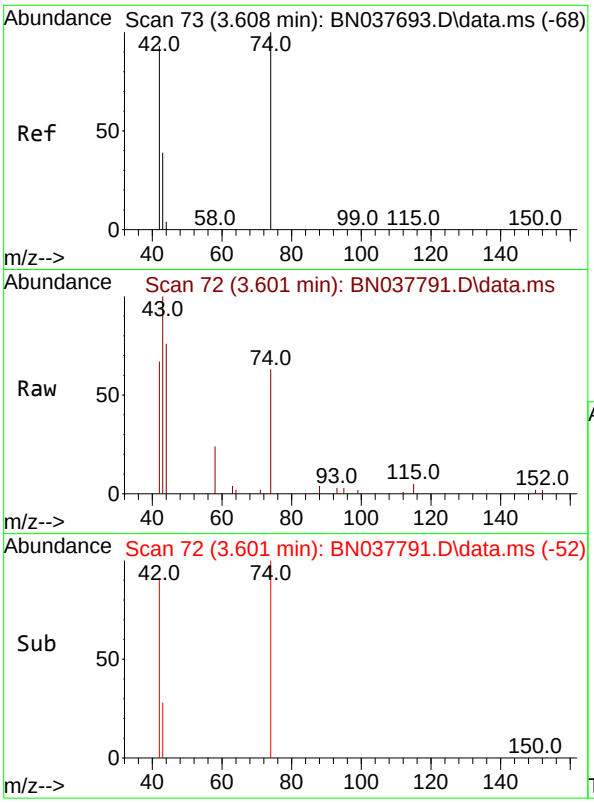




#2
1,4-Dioxane
Concen: 0.303 ng
RT: 3.304 min Scan# 31
Delta R.T. 0.000 min
Lab File: BN037791.D
Acq: 18 Sep 2025 23:40

Tgt Ion: 88 Resp: 2203

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 88 | 100 | | |
| 43 | 73.6 | 26.8 | 40.2# |
| 58 | 78.3 | 61.9 | 92.9 |



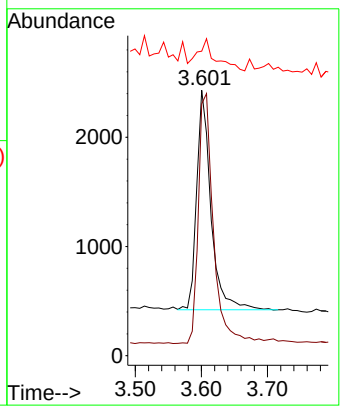


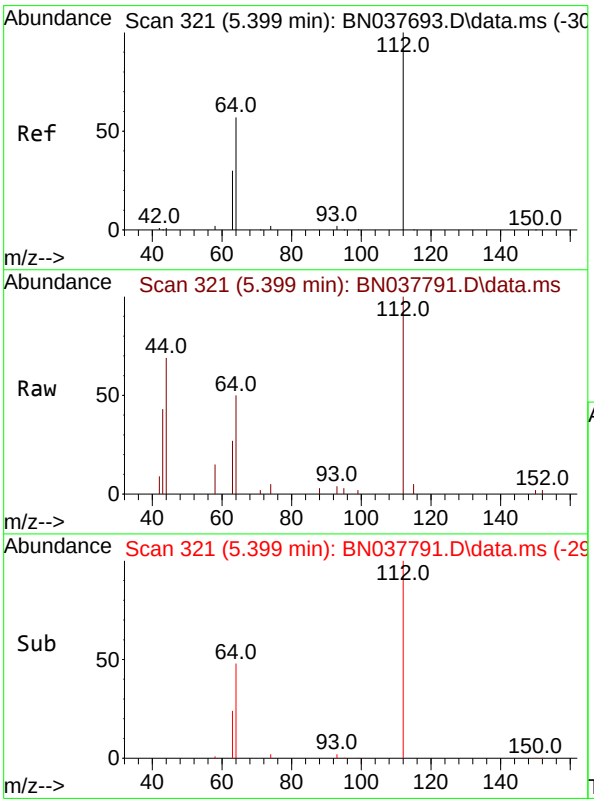

#3
n-Nitrosodimethylamine
Concen: 0.318 ng
RT: 3.601 min Scan# 7
Delta R.T. -0.007 min
Lab File: BN037791.D
Acq: 18 Sep 2025 23:40

**Instrument :**
BNA_N
**ClientSampleId :**
PB169692BS

Tgt Ion: 42 Resp: 3019

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 42 | 100 | | |
| 74 | 120.6 | 86.0 | 129.0 |
| 44 | 16.7 | 8.4 | 12.6# |

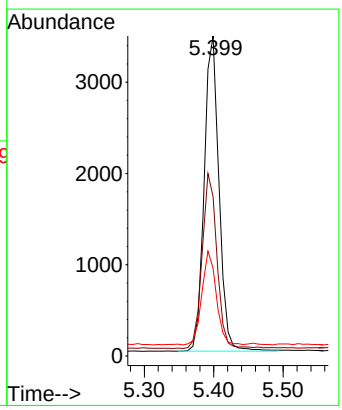


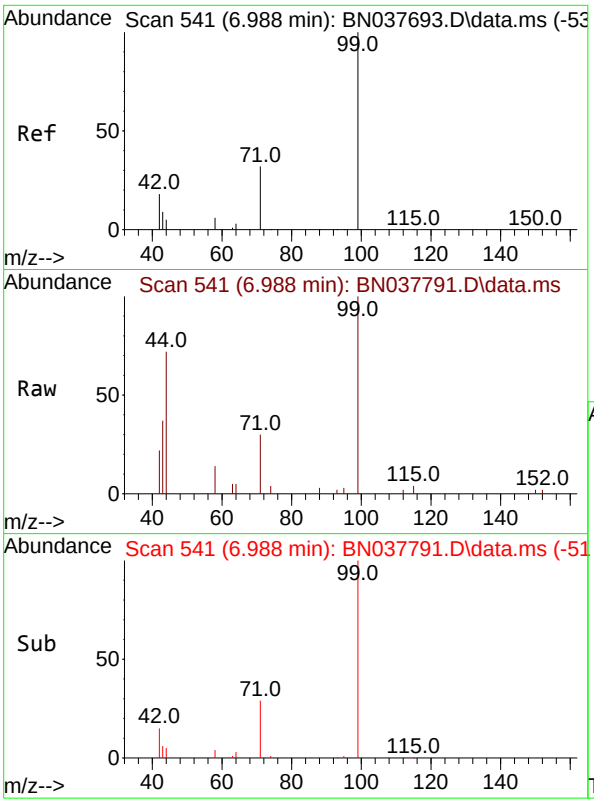




#4
2-Fluorophenol
Concen: 0.319 ng
RT: 5.399 min Scan# 321
Delta R.T. 0.000 min
Lab File: BN037791.D
Acq: 18 Sep 2025 23:40

Tgt Ion:112 Resp: 5108

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 112 | 100 | | |
| 64 | 55.2 | 44.9 | 67.3 |
| 63 | 29.0 | 24.7 | 37.1 |



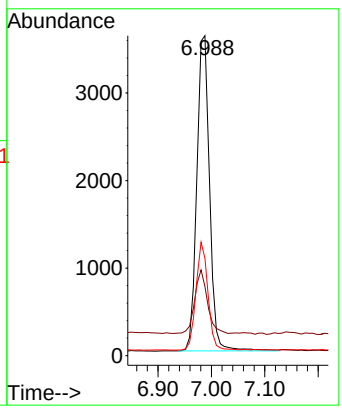


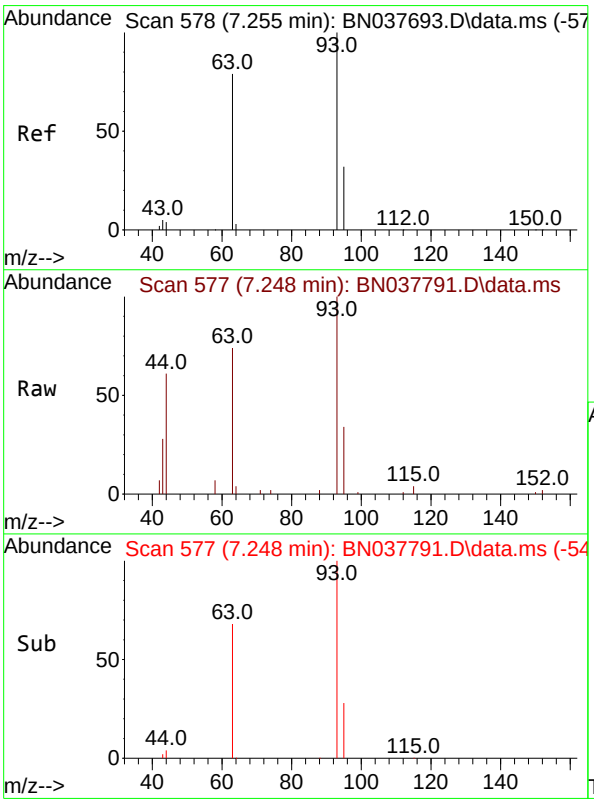

#5
Phenol-d6
Concen: 0.289 ng
RT: 6.988 min Scan# 54
Delta R.T. 0.000 min
Lab File: BN037791.D
Acq: 18 Sep 2025 23:40

**Instrument :**
BNA_N
**ClientSampleId :**
PB169692BS

Tgt Ion: 99 Resp: 5999

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 99 | 100 | | |
| 42 | 19.8 | 16.6 | 24.8 |
| 71 | 32.1 | 26.7 | 40.1 |

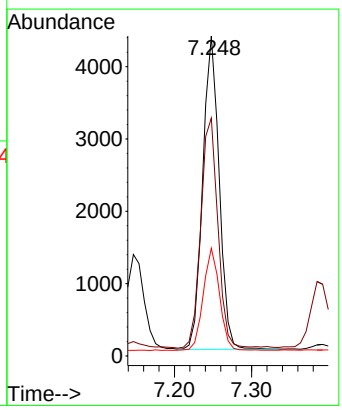


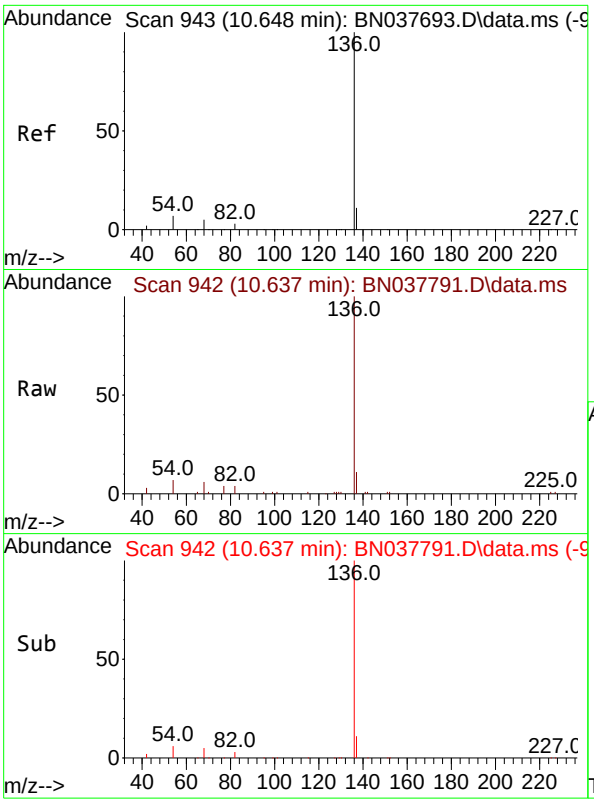




#6
bis(2-Chloroethyl)ether
Concen: 0.344 ng
RT: 7.248 min Scan# 577
Delta R.T. -0.007 min
Lab File: BN037791.D
Acq: 18 Sep 2025 23:40

Tgt Ion: 93 Resp: 6388

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 93 | 100 | | |
| 63 | 76.1 | 60.6 | 90.8 |
| 95 | 32.3 | 26.0 | 39.0 |



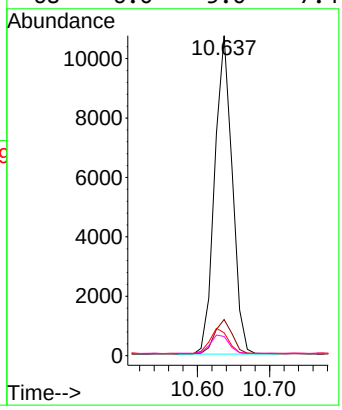


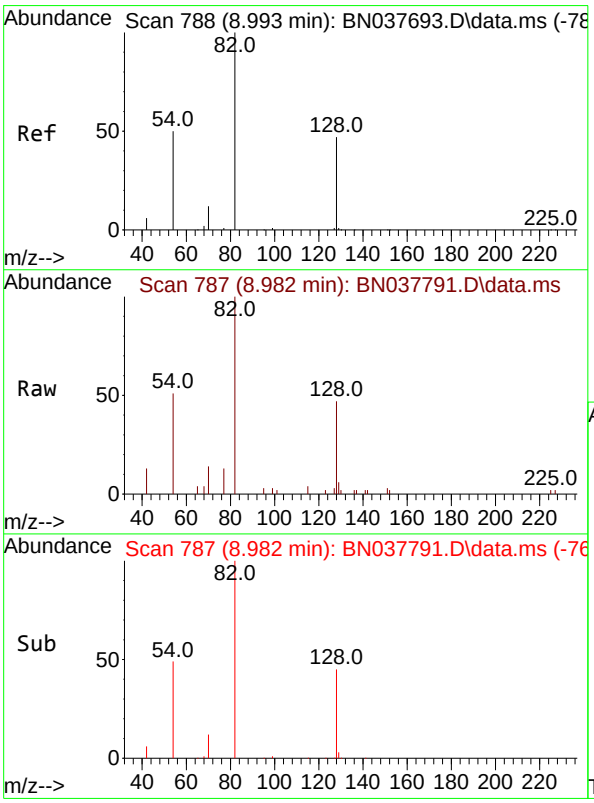

#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.637 min Scan# 94
Delta R.T. -0.011 min
Lab File: BN037791.D
Acq: 18 Sep 2025 23:40

**Instrument :**
BNA_N
**ClientSampleId :**
PB169692BS

Tgt Ion:136 Resp: 18103

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 136 | 100 | | |
| 137 | 11.3 | 9.1 | 13.7 |
| 54 | 7.2 | 6.3 | 9.5 |
| 68 | 6.0 | 5.0 | 7.4 |

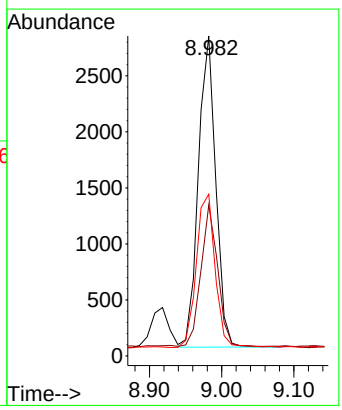


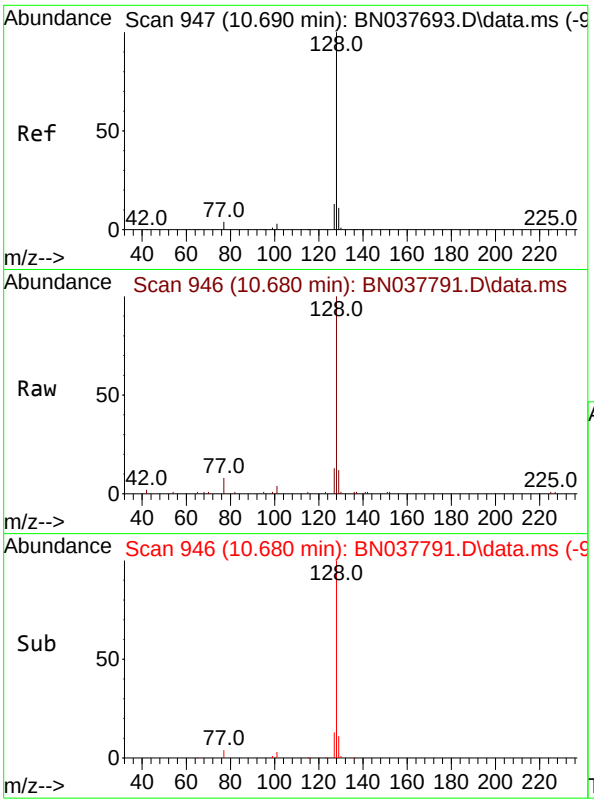




#8
Nitrobenzene-d5
Concen: 0.352 ng
RT: 8.982 min Scan# 787
Delta R.T. -0.011 min
Lab File: BN037791.D
Acq: 18 Sep 2025 23:40

Tgt Ion: 82 Resp: 4664

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 82 | 100 | | |
| 128 | 47.1 | 38.3 | 57.5 |
| 54 | 50.5 | 41.4 | 62.2 |



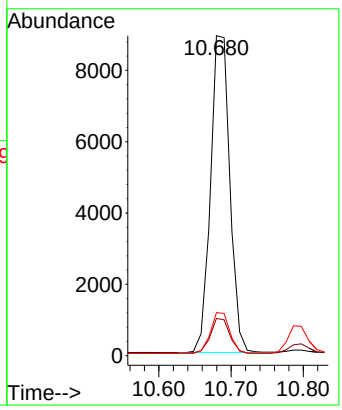


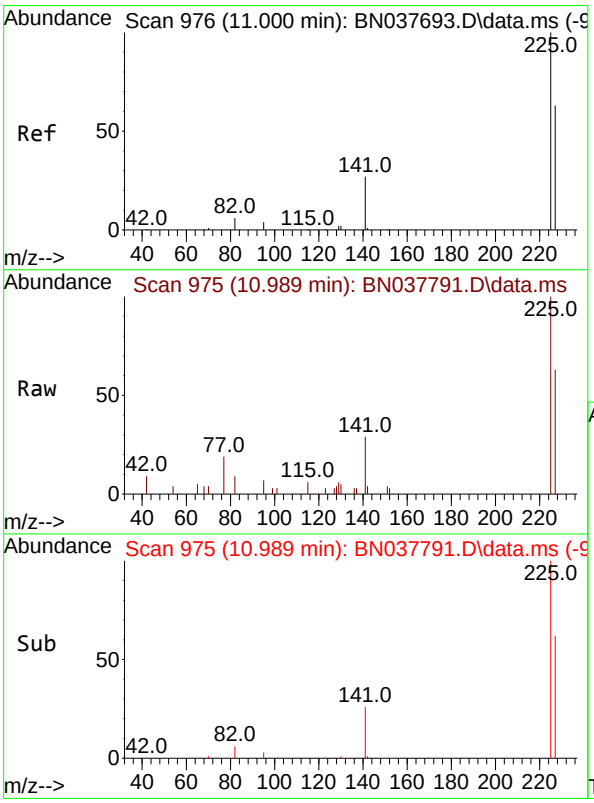

#9
Naphthalene
Concen: 0.334 ng
RT: 10.680 min Scan# 94
Delta R.T. -0.011 min
Lab File: BN037791.D
Acq: 18 Sep 2025 23:40

**Instrument :**
BNA_N
**ClientSampleId :**
PB169692BS

Tgt Ion:128 Resp: 16538

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 128 | 100 | | |
| 129 | 11.6 | 9.1 | 13.7 |
| 127 | 13.4 | 10.9 | 16.3 |

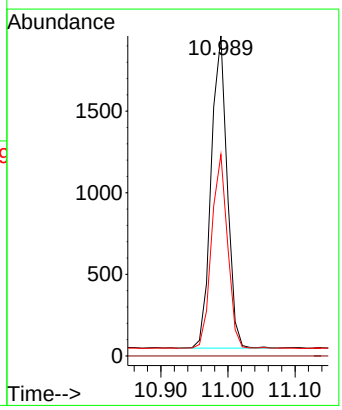


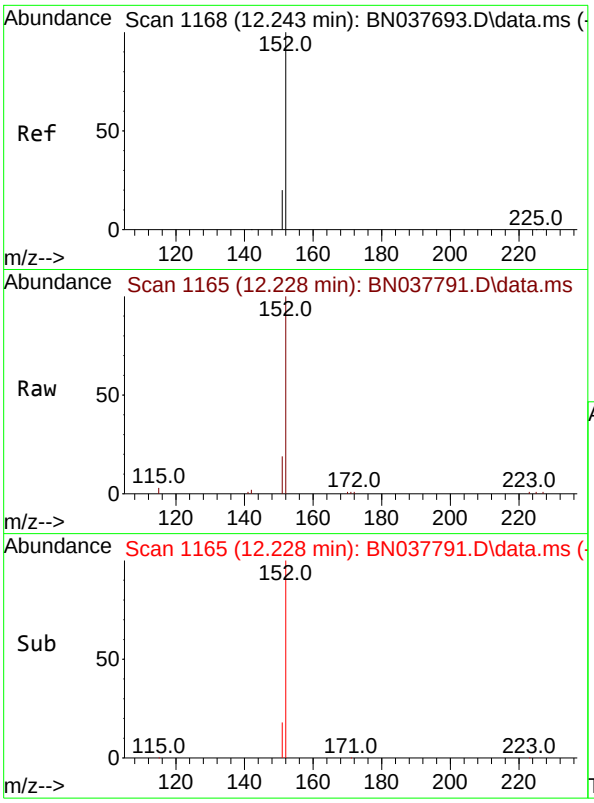




#10
Hexachlorobutadiene
Concen: 0.353 ng
RT: 10.989 min Scan# 975
Delta R.T. -0.011 min
Lab File: BN037791.D
Acq: 18 Sep 2025 23:40

Tgt Ion:225 Resp: 3164

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 225 | 100 | | |
| 223 | 0.0 | 0.0 | 0.0 |
| 227 | 61.4 | 50.9 | 76.3 |



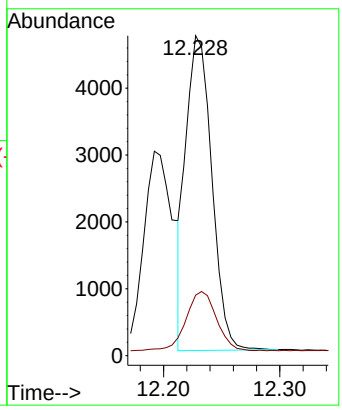


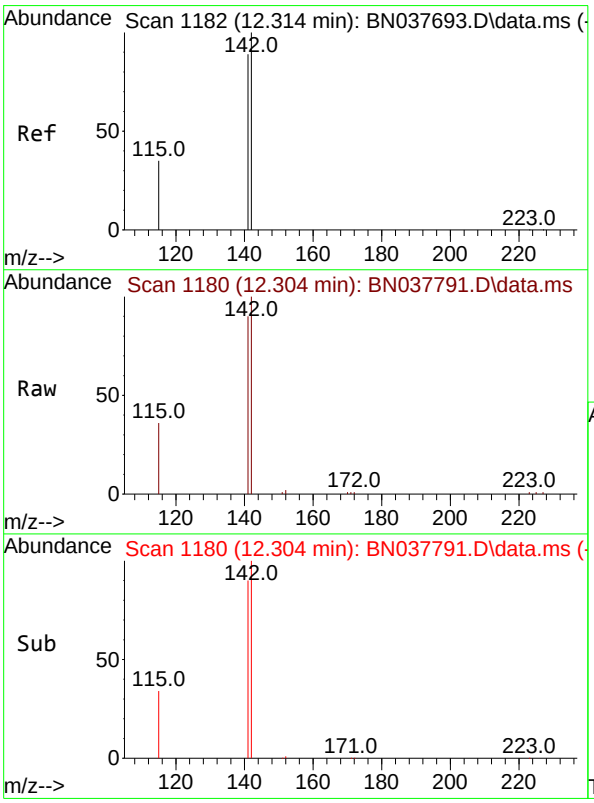

#11
2-Methylnaphthalene-d10
Concen: 0.303 ng
RT: 12.228 min Scan# 11
Delta R.T. -0.015 min
Lab File: BN037791.D
Acq: 18 Sep 2025 23:40

**Instrument :**
BNA_N
**ClientSampleId :**
PB169692BS

Tgt Ion:152 Resp: 7264

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 151 | 22.7 | 17.0 | 25.6 |

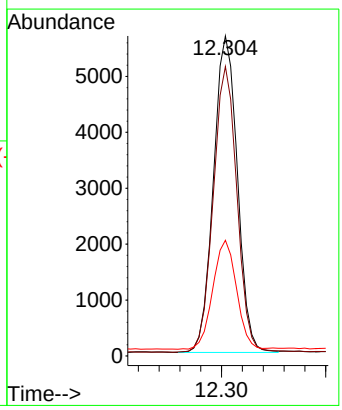


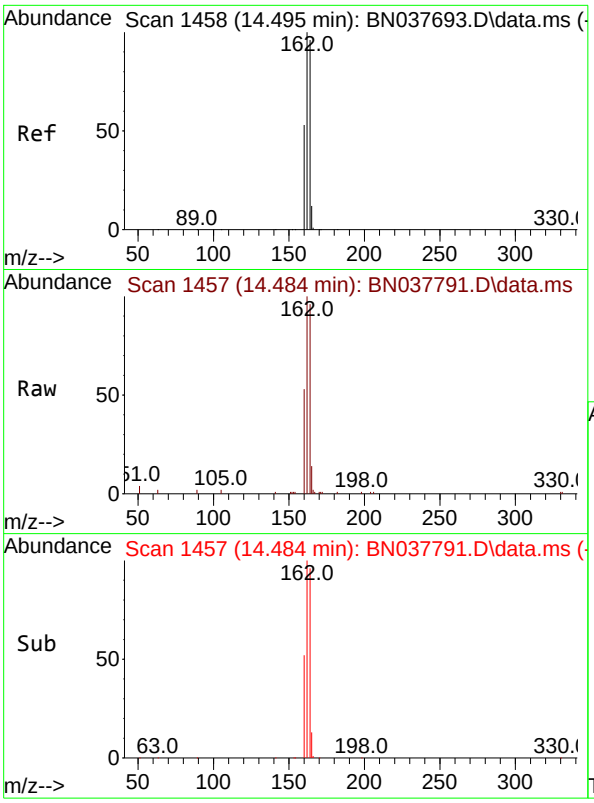




#12
2-Methylnaphthalene
Concen: 0.295 ng
RT: 12.304 min Scan# 1180
Delta R.T. -0.010 min
Lab File: BN037791.D
Acq: 18 Sep 2025 23:40

Tgt Ion:142 Resp: 9026

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 142 | 100 | | |
| 141 | 90.4 | 71.6 | 107.4 |
| 115 | 36.1 | 28.6 | 43.0 |



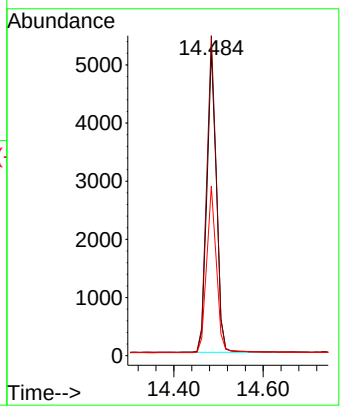


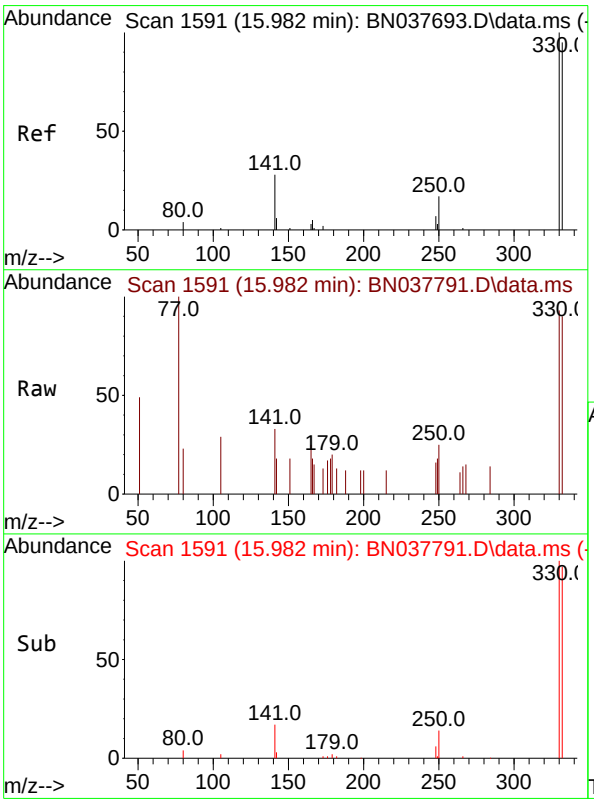

#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.484 min Scan# 14
Delta R.T. -0.011 min
Lab File: BN037791.D
Acq: 18 Sep 2025 23:40

**Instrument :**
BNA_N
**ClientSampleId :**
PB169692BS

Tgt Ion:164 Resp: 7729

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 164 | 100 | | |
| 162 | 104.5 | 83.1 | 124.7 |
| 160 | 55.3 | 44.3 | 66.5 |

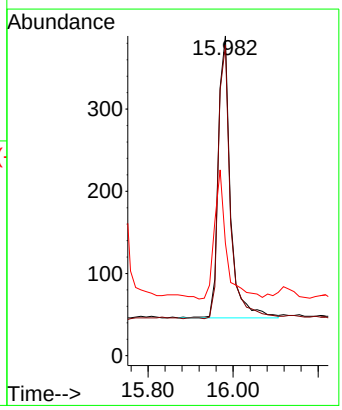


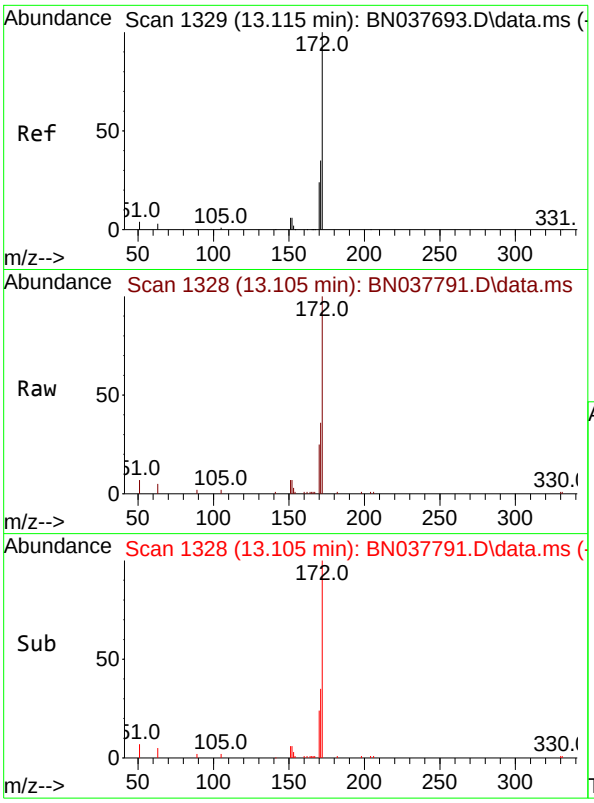




#14
2,4,6-Tribromophenol
Concen: 0.339 ng
RT: 15.982 min Scan# 1591
Delta R.T. -0.000 min
Lab File: BN037791.D
Acq: 18 Sep 2025 23:40

Tgt Ion:330 Resp: 683

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 330 | 100 | | |
| 332 | 96.8 | 75.3 | 112.9 |
| 141 | 44.7 | 35.0 | 52.4 |



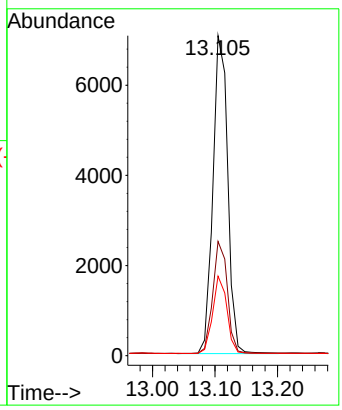


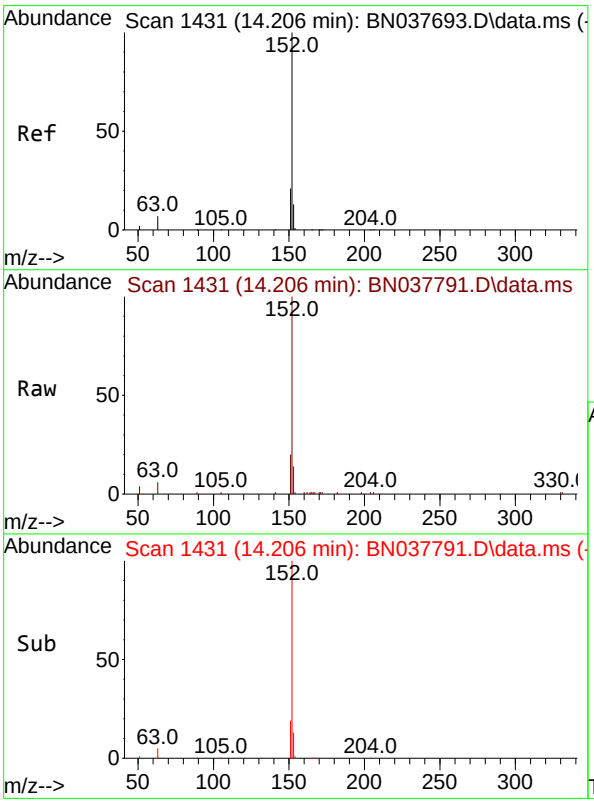

#15
2-Fluorobiphenyl
Concen: 0.359 ng
RT: 13.105 min Scan# 1
Delta R.T. -0.011 min
Lab File: BN037791.D
Acq: 18 Sep 2025 23:40

**Instrument :**
BNA_N
**ClientSampleId :**
PB169692BS

Tgt Ion:172 Resp: 11595

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 172 | 100 | | |
| 171 | 35.7 | 28.6 | 43.0 |
| 170 | 24.8 | 19.8 | 29.8 |

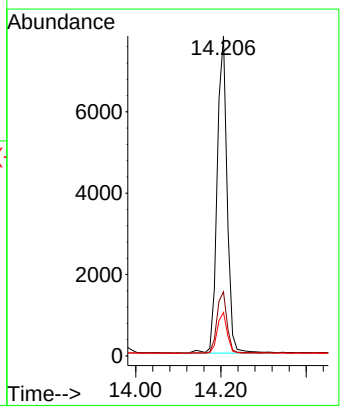


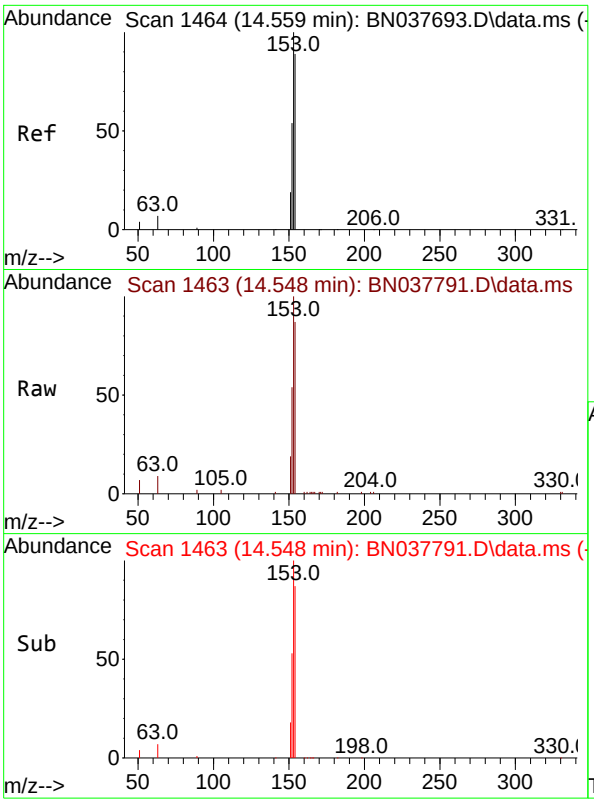




#16
Acenaphthylene
Concen: 0.357 ng
RT: 14.206 min Scan# 1431
Delta R.T. 0.000 min
Lab File: BN037791.D
Acq: 18 Sep 2025 23:40

Tgt Ion:152 Resp: 12644

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 151 | 19.6 | 16.2 | 24.2 |
| 153 | 13.2 | 10.4 | 15.6 |



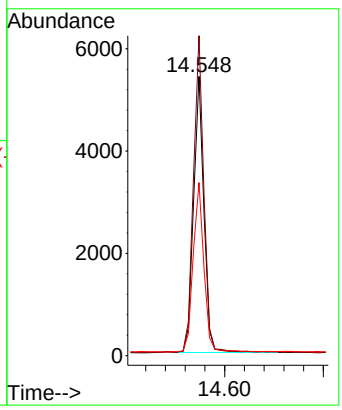


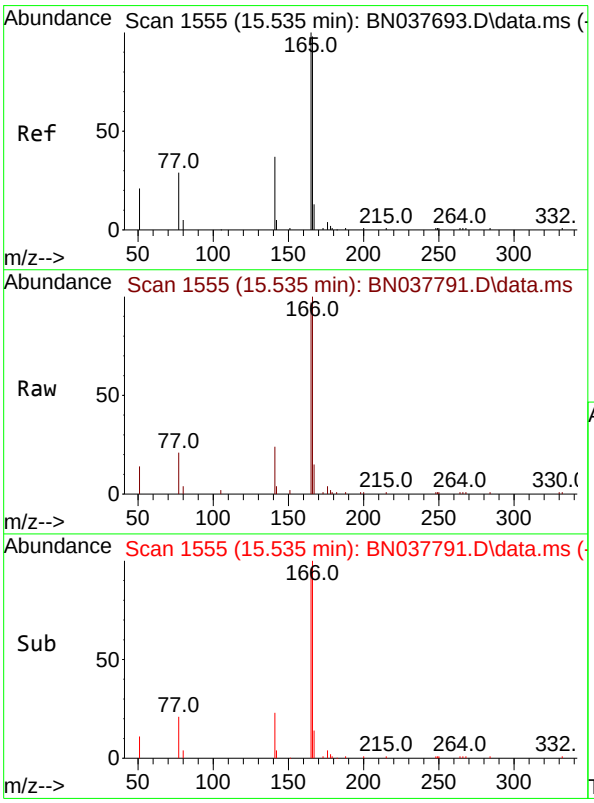

#17
Acenaphthene
Concen: 0.328 ng
RT: 14.548 min Scan# 14
Delta R.T. -0.011 min
Lab File: BN037791.D
Acq: 18 Sep 2025 23:40

**Instrument :**
BNA_N
**ClientSampleId :**
PB169692BS

Tgt Ion:154 Resp: 7865

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 154 | 100 | | |
| 153 | 114.6 | 89.8 | 134.8 |
| 152 | 63.6 | 50.2 | 75.2 |

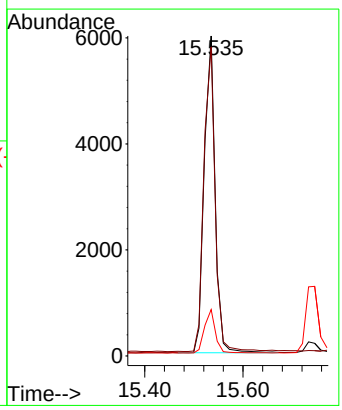


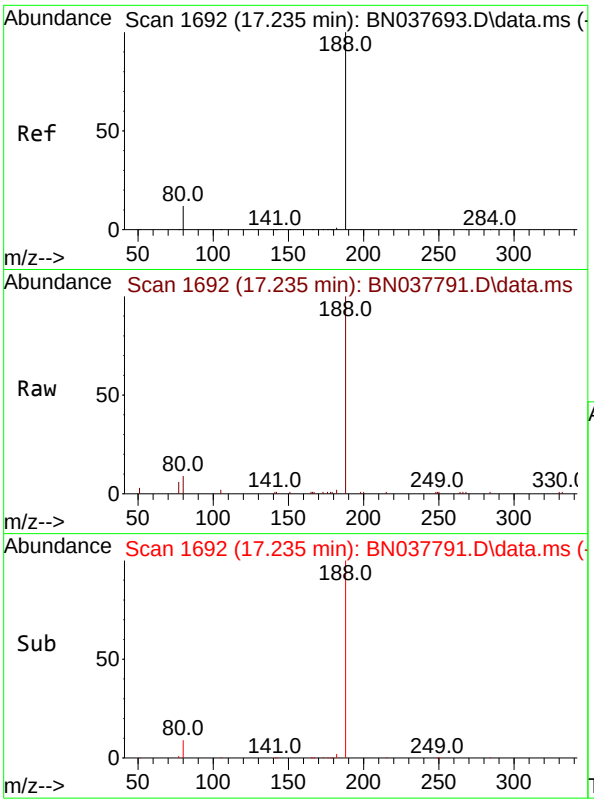




#18
Fluorene
Concen: 0.309 ng
RT: 15.535 min Scan# 1555
Delta R.T. 0.000 min
Lab File: BN037791.D
Acq: 18 Sep 2025 23:40

Tgt Ion:166 Resp: 8960

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 166 | 100 | | |
| 165 | 97.8 | 79.6 | 119.4 |
| 167 | 13.5 | 10.6 | 16.0 |



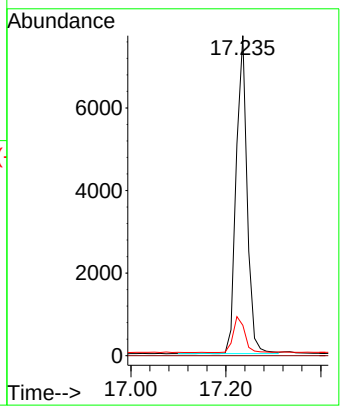


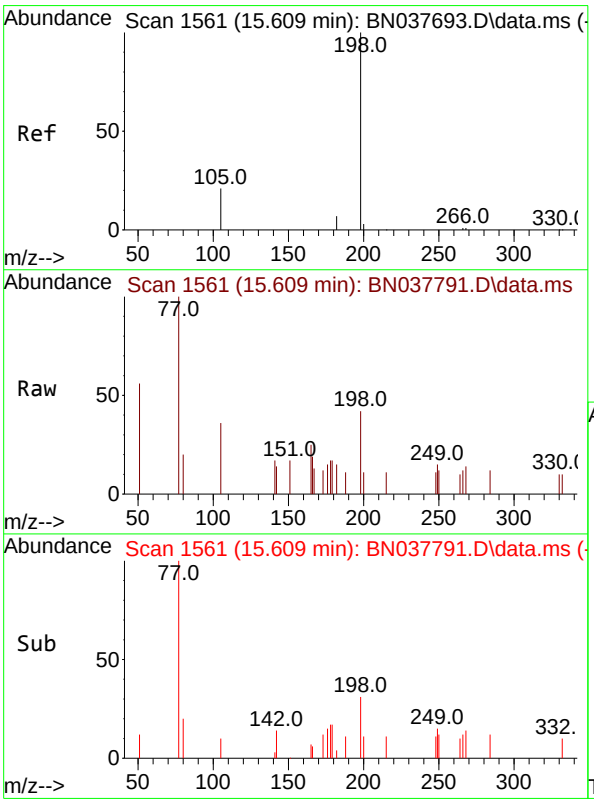

#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.235 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN037791.D
Acq: 18 Sep 2025 23:40

**Instrument :**
BNA_N
**ClientSampleId :**
PB169692BS

Tgt Ion:188 Resp: 12277

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 188 | 100 | | |
| 94 | 0.0 | 0.0 | 0.0 |
| 80 | 9.5 | 10.6 | 15.8# |

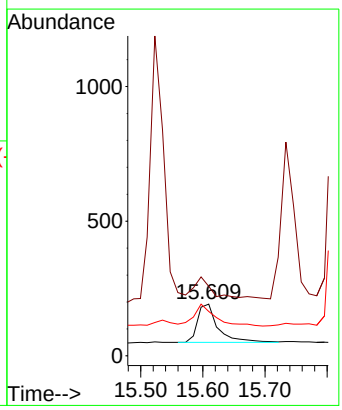


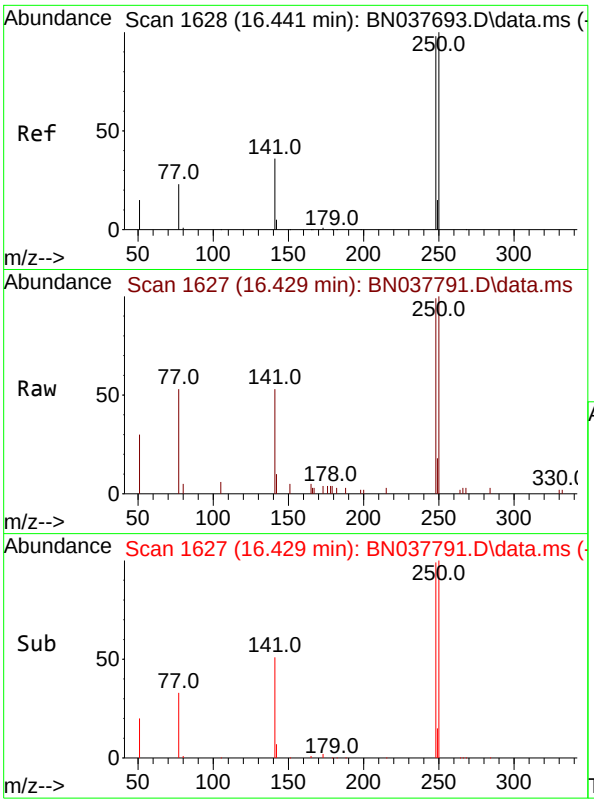




#20
4,6-Dinitro-2-methylphenol
Concen: 0.286 ng
RT: 15.609 min Scan# 1561
Delta R.T. 0.000 min
Lab File: BN037791.D
Acq: 18 Sep 2025 23:40

Tgt Ion:198 Resp: 325

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 198 | 100 | | |
| 51 | 134.4 | 95.1 | 142.7 |
| 105 | 85.9 | 53.8 | 80.6# |



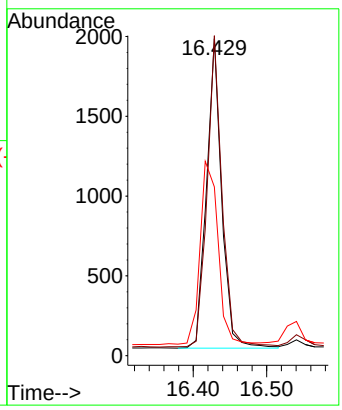


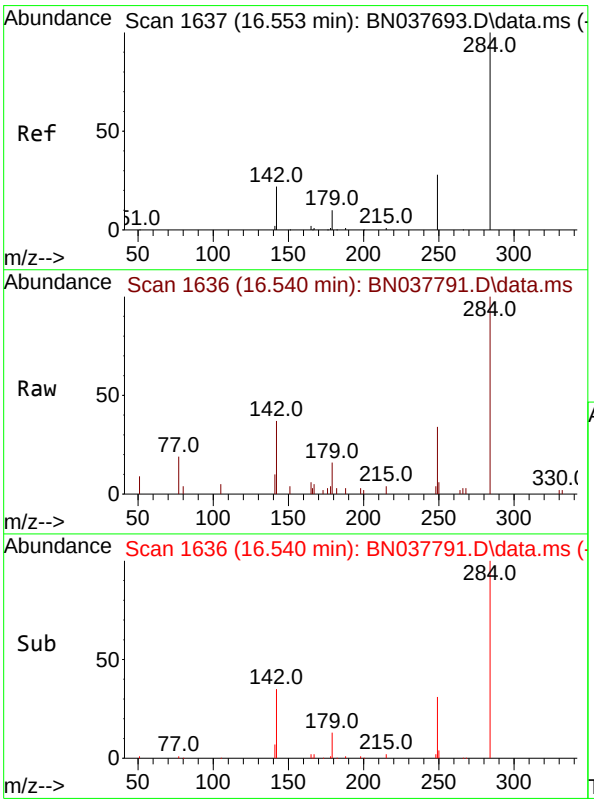

#21
4-Bromophenyl-phenylether
Concen: 0.348 ng
RT: 16.429 min Scan# 1(
Delta R.T. -0.012 min
Lab File: BN037791.D
Acq: 18 Sep 2025 23:40

**Instrument :**
BNA_N
**ClientSampleId :**
PB169692BS

Tgt Ion:248 Resp: 2787

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 248 | 100 | | |
| 250 | 100.9 | 81.5 | 122.3 |
| 141 | 53.2 | 30.8 | 46.2# |

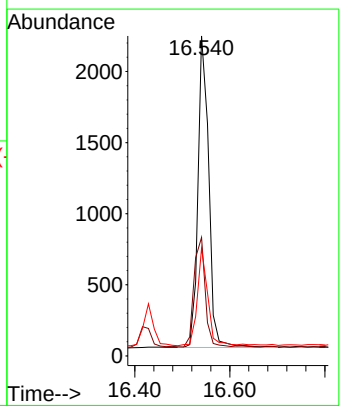


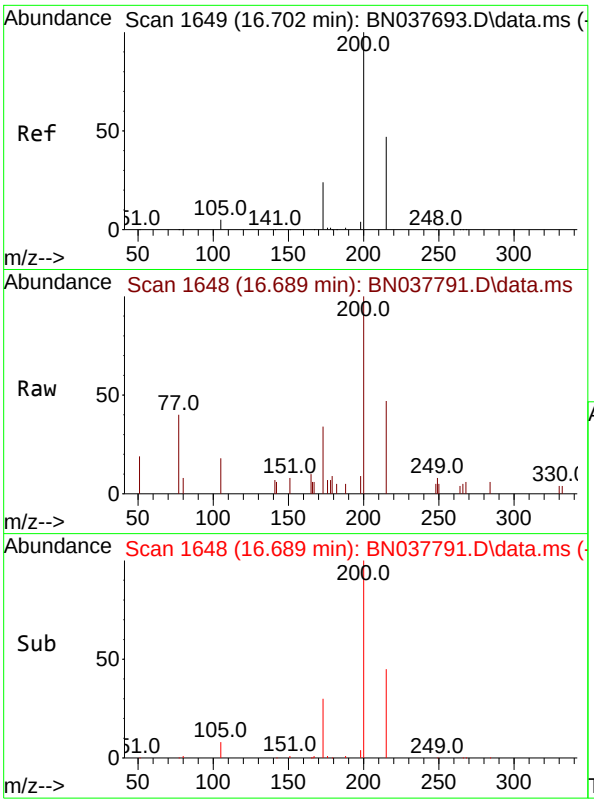




#22
Hexachlorobenzene
Concen: 0.375 ng
RT: 16.540 min Scan# 1636
Delta R.T. -0.012 min
Lab File: BN037791.D
Acq: 18 Sep 2025 23:40

Tgt Ion:284 Resp: 3452

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 284 | 100 | | |
| 142 | 36.3 | 30.9 | 46.3 |
| 249 | 30.0 | 24.8 | 37.2 |



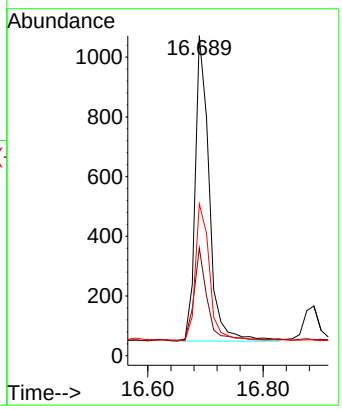


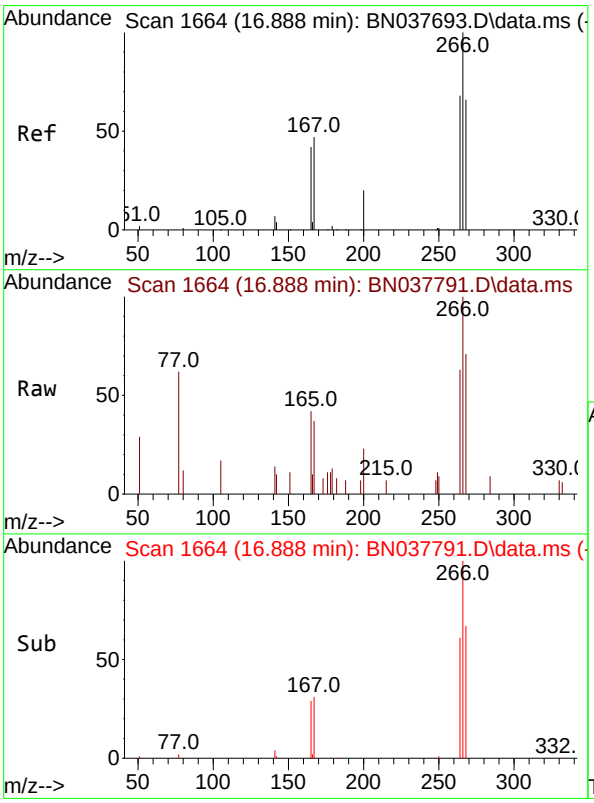

#23
Atrazine
Concen: 0.339 ng
RT: 16.689 min Scan# 1
Delta R.T. -0.012 min
Lab File: BN037791.D
Acq: 18 Sep 2025 23:40

**Instrument :**
BNA_N
**ClientSampleId :**
PB169692BS

Tgt Ion:200 Resp: 1725

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 200 | 100 | | |
| 173 | 33.7 | 21.4 | 32.2# |
| 215 | 47.4 | 39.2 | 58.8 |

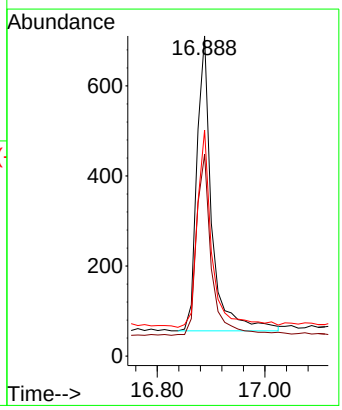


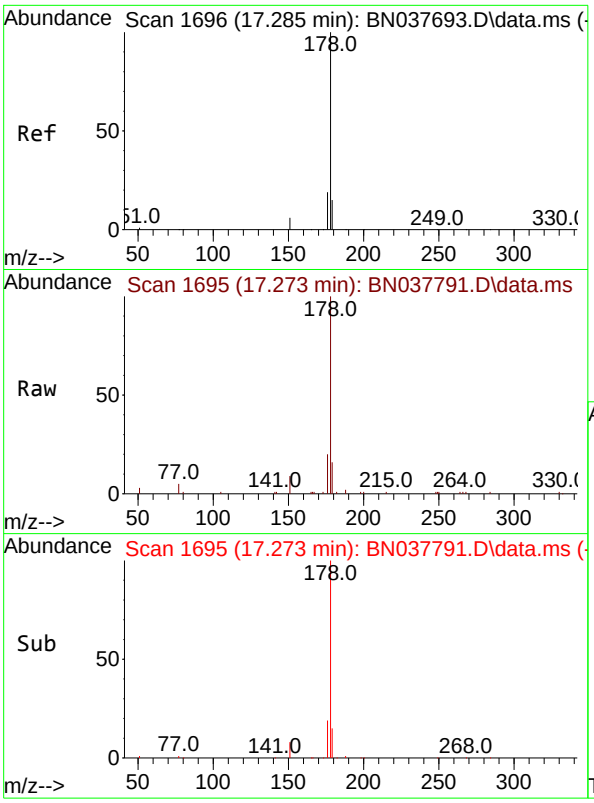




#24
Pentachlorophenol
Concen: 0.472 ng
RT: 16.888 min Scan# 1664
Delta R.T. 0.000 min
Lab File: BN037791.D
Acq: 18 Sep 2025 23:40

Tgt Ion:266 Resp: 1262

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 266 | 100 | | |
| 264 | 62.1 | 51.6 | 77.4 |
| 268 | 66.1 | 53.2 | 79.8 |



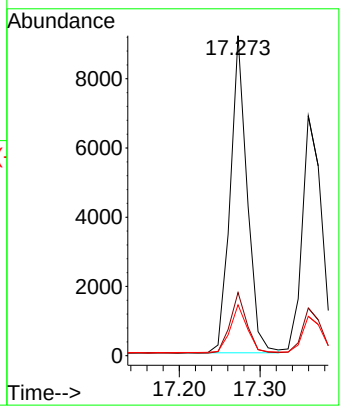


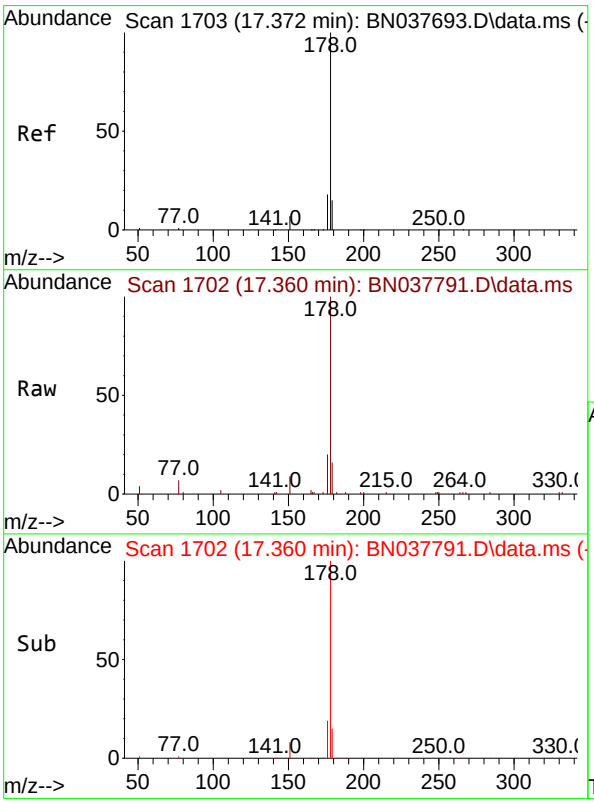

#25
Phenanthrene
Concen: 0.345 ng
RT: 17.273 min Scan# 1
Delta R.T. -0.012 min
Lab File: BN037791.D
Acq: 18 Sep 2025 23:40

**Instrument :**
BNA_N
**ClientSampleId :**
PB169692BS

Tgt Ion:178 Resp: 13331

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 178 | 100 | | |
| 176 | 19.1 | 15.3 | 22.9 |
| 179 | 15.6 | 12.2 | 18.2 |

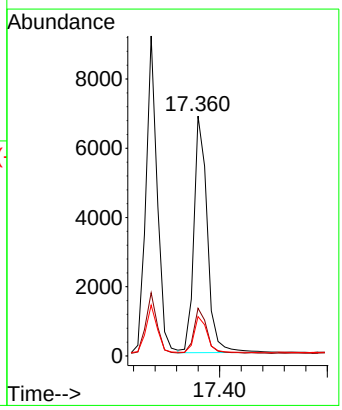


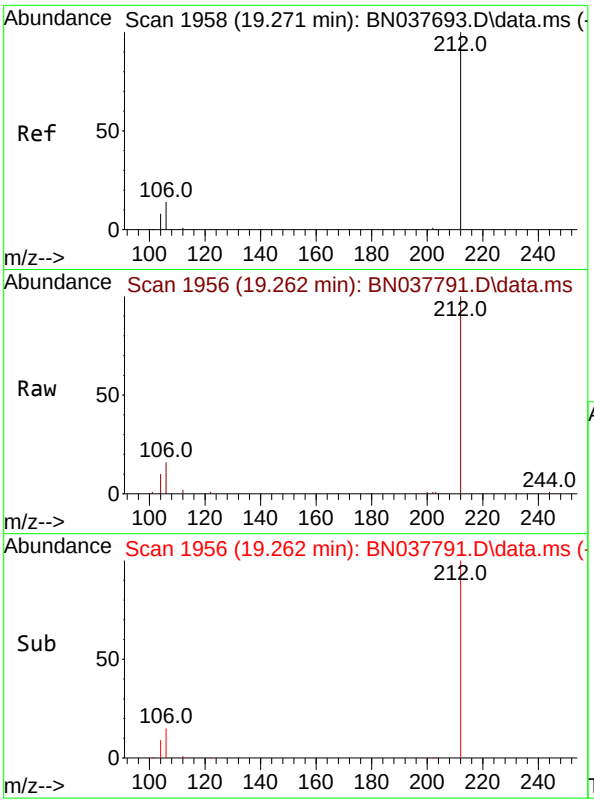




#26
Anthracene
Concen: 0.345 ng
RT: 17.360 min Scan# 1702
Delta R.T. -0.012 min
Lab File: BN037791.D
Acq: 18 Sep 2025 23:40

Tgt Ion:178 Resp: 11823

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 178 | 100 | | |
| 176 | 18.9 | 14.6 | 22.0 |
| 179 | 14.9 | 12.2 | 18.4 |



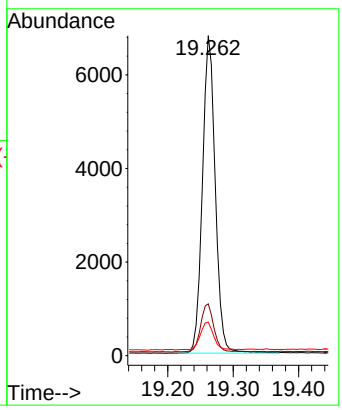


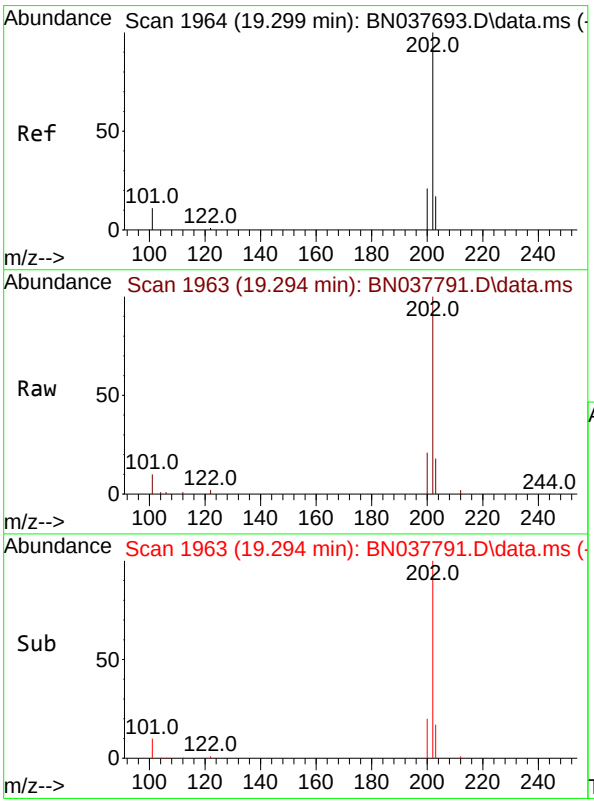

#27
Fluoranthene-d10
Concen: 0.300 ng
RT: 19.262 min Scan# 1
Delta R.T. -0.009 min
Lab File: BN037791.D
Acq: 18 Sep 2025 23:40

**Instrument :**
BNA_N
**ClientSampleId :**
PB169692BS

Tgt Ion:212 Resp: 9242

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 212 | 100 | | |
| 106 | 15.4 | 12.2 | 18.2 |
| 104 | 9.0 | 6.9 | 10.3 |

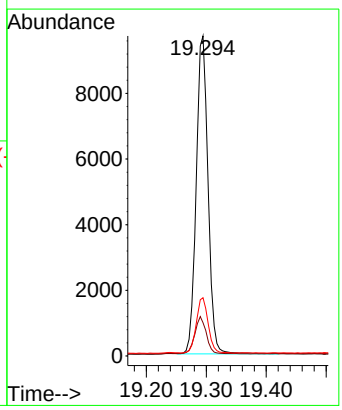


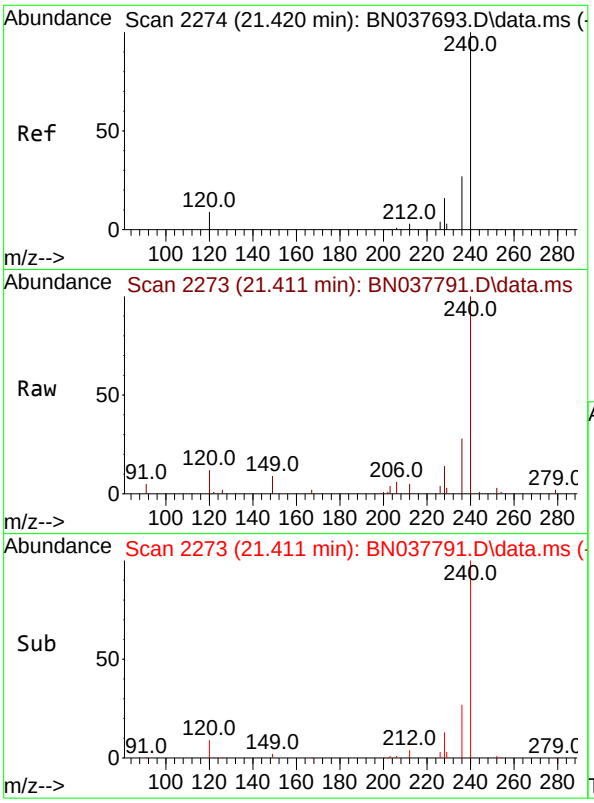




#28
Fluoranthene
Concen: 0.312 ng
RT: 19.294 min Scan# 1963
Delta R.T. -0.005 min
Lab File: BN037791.D
Acq: 18 Sep 2025 23:40

Tgt Ion:202 Resp: 13219

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 202 | 100 | | |
| 101 | 11.1 | 9.3 | 13.9 |
| 203 | 17.5 | 13.7 | 20.5 |



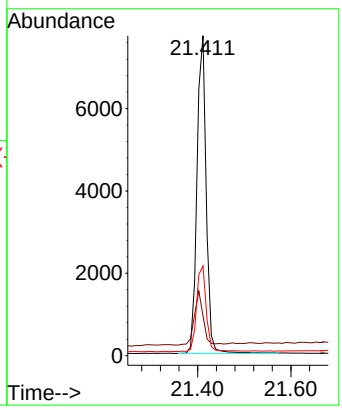


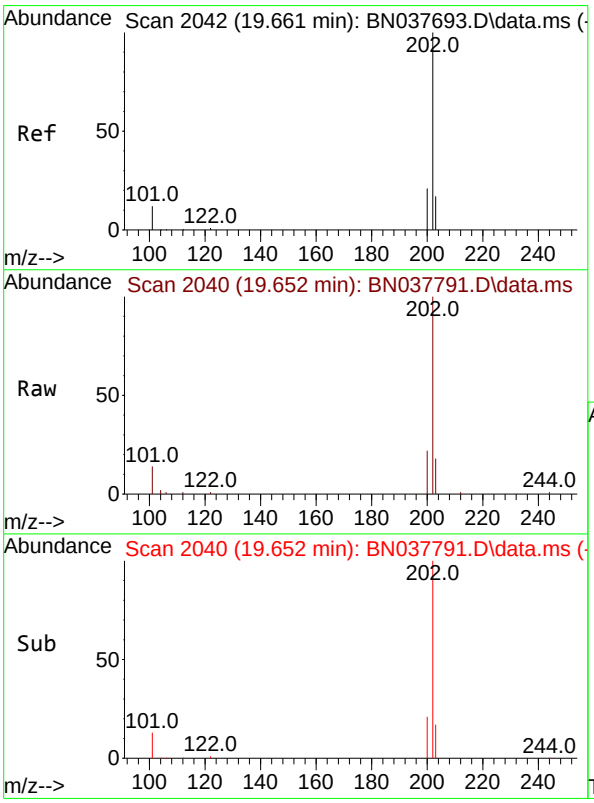

#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.411 min Scan# 2
Delta R.T. -0.009 min
Lab File: BN037791.D
Acq: 18 Sep 2025 23:40

**Instrument :**
BNA_N
**ClientSampleId :**
PB169692BS

Tgt Ion:240 Resp: 10644

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 240 | 100 | | |
| 120 | 12.5 | 9.2 | 13.8 |
| 236 | 28.0 | 22.6 | 33.8 |

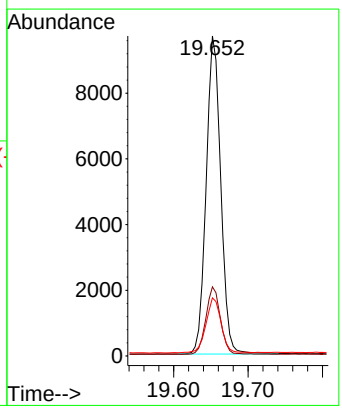


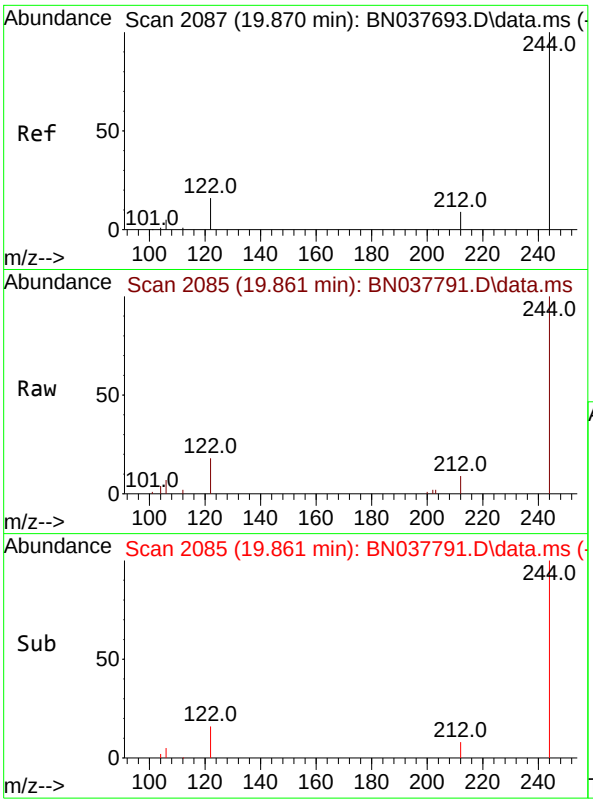




#30
Pyrene
Concen: 0.317 ng
RT: 19.652 min Scan# 2040
Delta R.T. -0.009 min
Lab File: BN037791.D
Acq: 18 Sep 2025 23:40

Tgt Ion:202 Resp: 13196

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 202 | 100 | | |
| 200 | 21.0 | 16.8 | 25.2 |
| 203 | 18.0 | 14.3 | 21.5 |



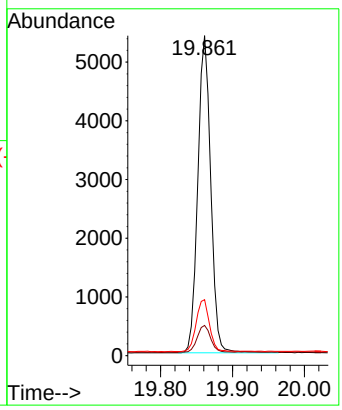


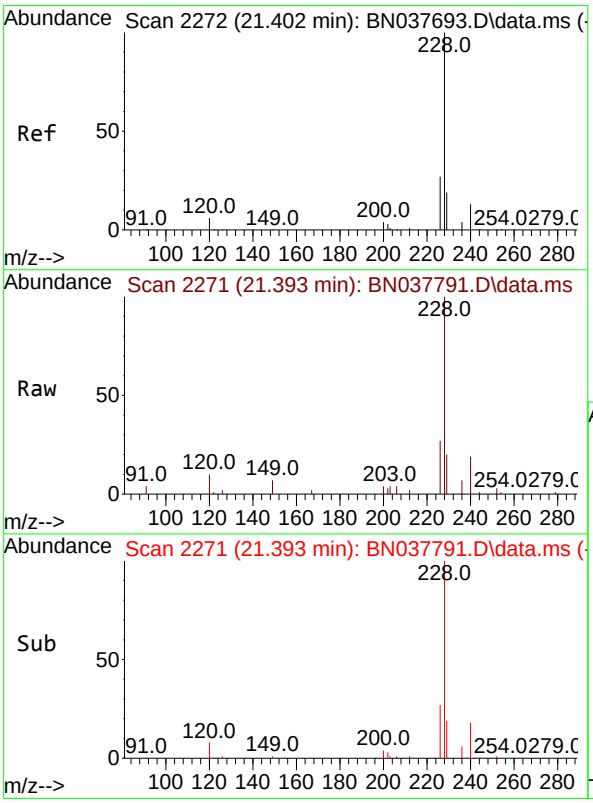

#31
Terphenyl-d14
Concen: 0.313 ng
RT: 19.861 min Scan# 2
Delta R.T. -0.009 min
Lab File: BN037791.D
Acq: 18 Sep 2025 23:40

**Instrument :**
BNA_N
**ClientSampleId :**
PB169692BS

Tgt Ion:244 Resp: 6760

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 244 | 100 | | |
| 212 | 9.4 | 7.5 | 11.3 |
| 122 | 17.5 | 13.2 | 19.8 |

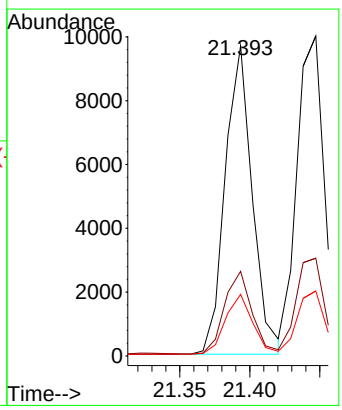


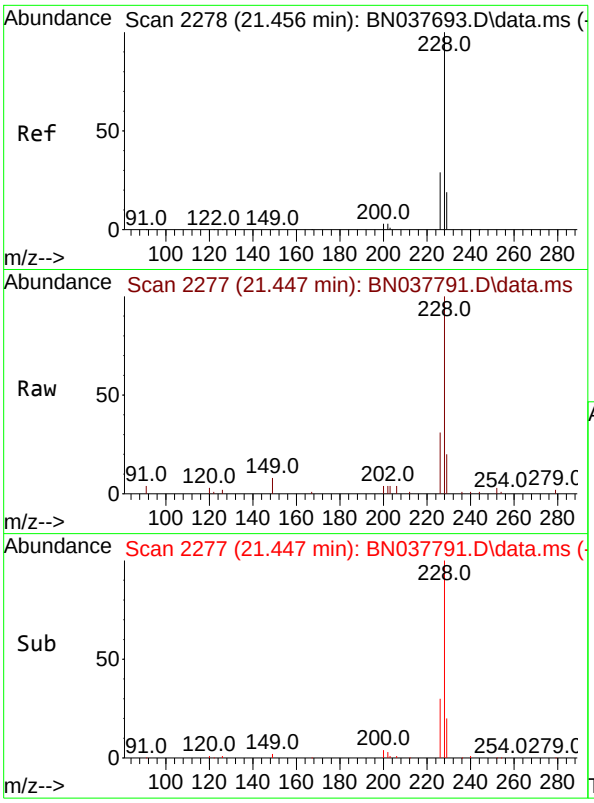




#32
Benzo(a)anthracene
Concen: 0.351 ng
RT: 21.393 min Scan# 2271
Delta R.T. -0.009 min
Lab File: BN037791.D
Acq: 18 Sep 2025 23:40

Tgt Ion:228 Resp: 13045

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 228 | 100 | | |
| 226 | 27.3 | 22.2 | 33.2 |
| 229 | 19.9 | 15.8 | 23.6 |



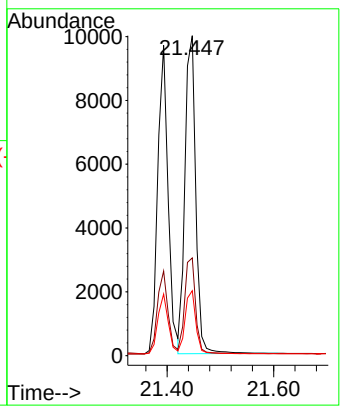


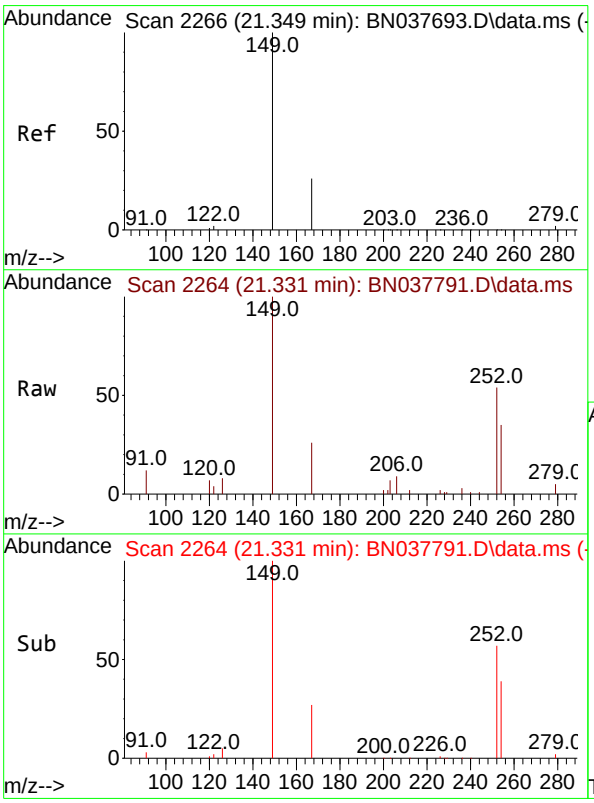

#33
Chrysene
Concen: 0.351 ng
RT: 21.447 min Scan# 2
Delta R.T. -0.009 min
Lab File: BN037791.D
Acq: 18 Sep 2025 23:40

**Instrument :**
BNA_N
**ClientSampleId :**
PB169692BS

Tgt Ion:228 Resp: 13977

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 228 | 100 | | |
| 226 | 30.6 | 23.5 | 35.3 |
| 229 | 20.3 | 15.9 | 23.9 |

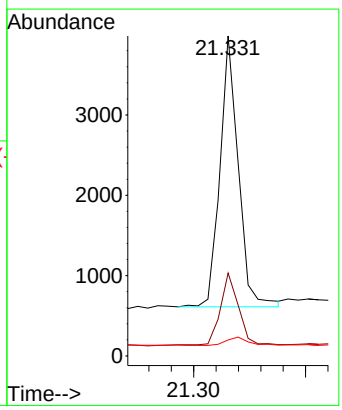


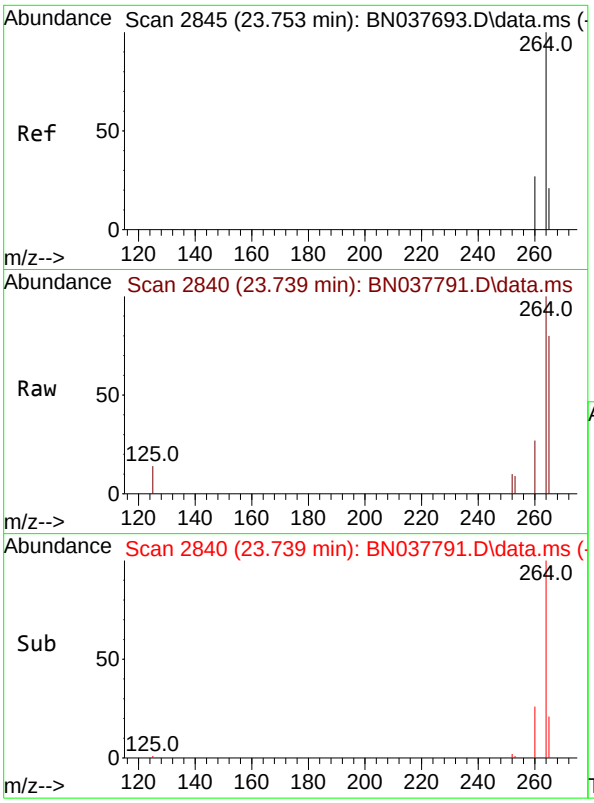




#34
Bis(2-ethylhexyl)phthalate
Concen: 0.349 ng
RT: 21.331 min Scan# 2264
Delta R.T. -0.018 min
Lab File: BN037791.D
Acq: 18 Sep 2025 23:40

Tgt Ion:149 Resp: 3840

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 149 | 100 | | |
| 167 | 25.6 | 20.8 | 31.2 |
| 279 | 3.7 | 3.3 | 4.9 |



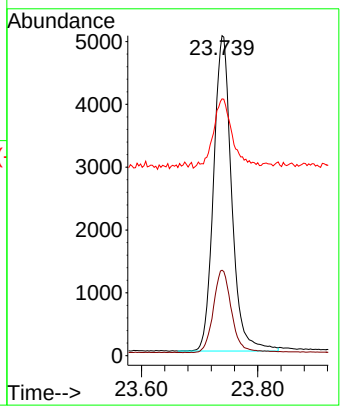


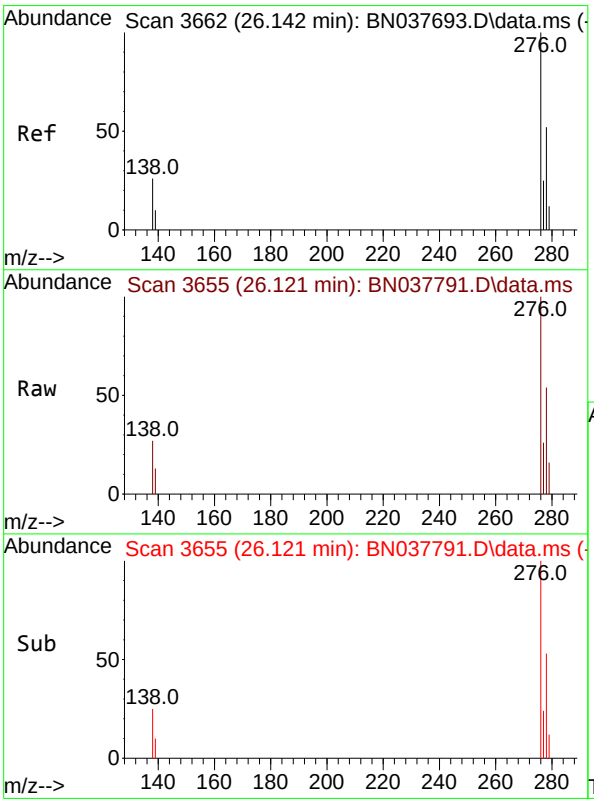

#35
Perylene-d12
Concen: 0.400 ng
RT: 23.739 min Scan# 2
Delta R.T. -0.015 min
Lab File: BN037791.D
Acq: 18 Sep 2025 23:40

**Instrument :**
BNA_N
**ClientSampleId :**
PB169692BS

Tgt Ion:264 Resp: 10808

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 264 | 100 | | |
| 260 | 26.7 | 21.8 | 32.8 |
| 265 | 80.2 | 39.4 | 59.2# |

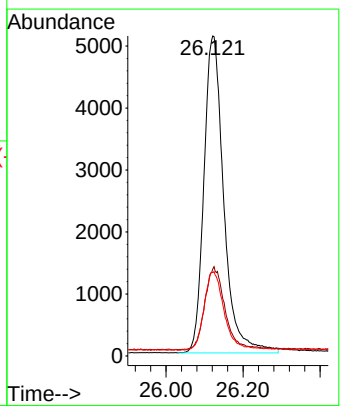


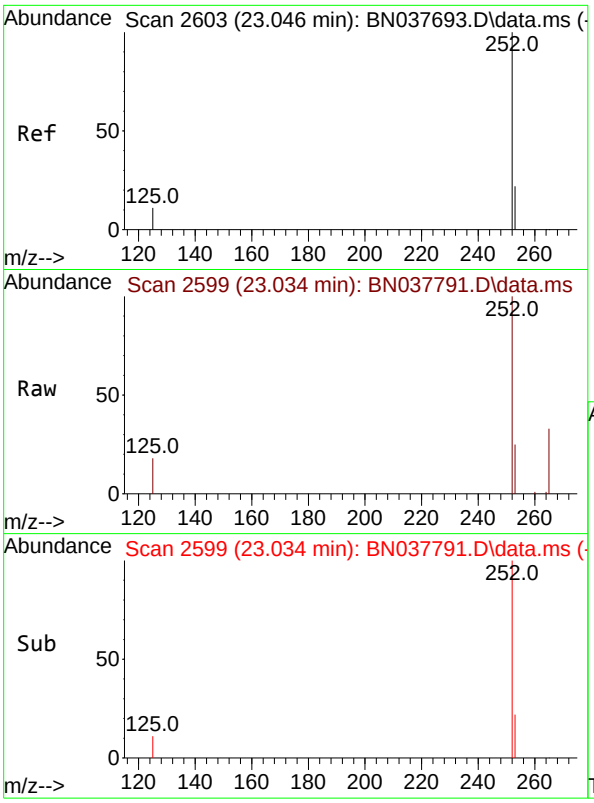




#36
Indeno(1,2,3-cd)pyrene
Concen: 0.402 ng
RT: 26.121 min Scan# 3655
Delta R.T. -0.020 min
Lab File: BN037791.D
Acq: 18 Sep 2025 23:40

Tgt Ion:276 Resp: 18272

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 276 | 100 | | |
| 138 | 26.0 | 21.9 | 32.9 |
| 277 | 24.4 | 20.1 | 30.1 |



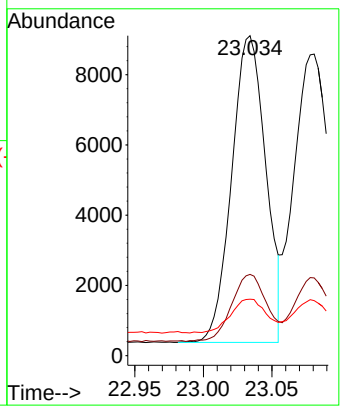


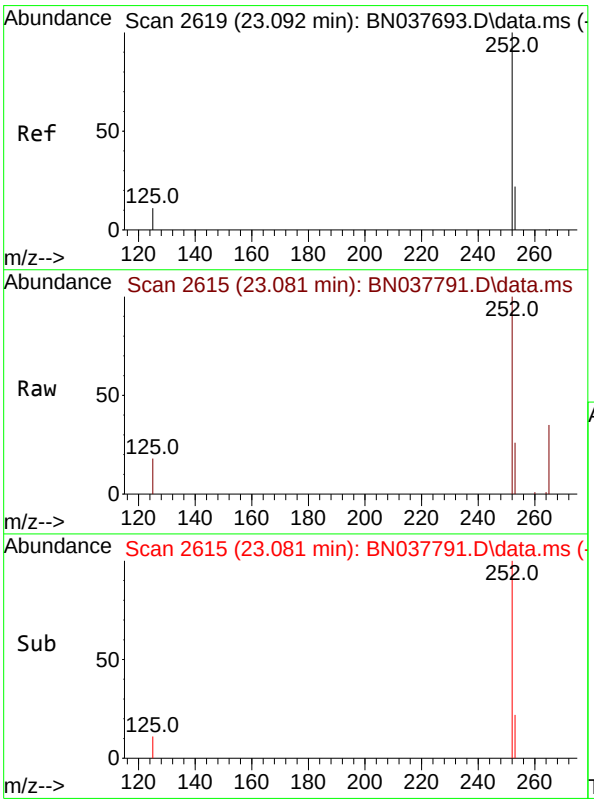

#37
Benzo(b)fluoranthene
Concen: 0.354 ng
RT: 23.034 min Scan# 2
Delta R.T. -0.012 min
Lab File: BN037791.D
Acq: 18 Sep 2025 23:40

**Instrument :**
BNA_N
**ClientSampleId :**
PB169692BS

Tgt Ion:252 Resp: 15074

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 25.4 | 19.4 | 29.2 |
| 125 | 17.7 | 11.2 | 16.8# |

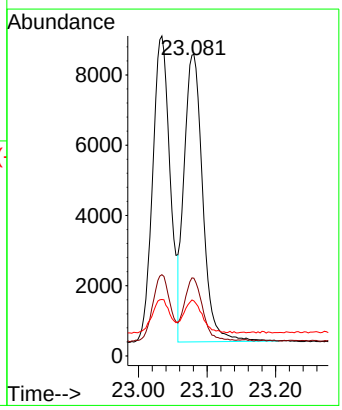


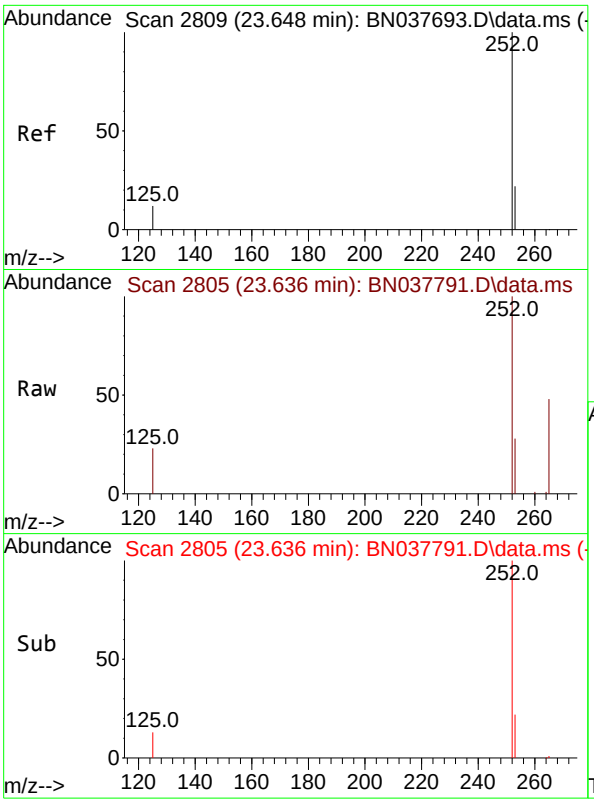




#38
Benzo(k)fluoranthene
Concen: 0.356 ng
RT: 23.081 min Scan# 2615
Delta R.T. -0.012 min
Lab File: BN037791.D
Acq: 18 Sep 2025 23:40

Tgt Ion:252 Resp: 15430

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 25.8 | 19.4 | 29.0 |
| 125 | 18.2 | 11.6 | 17.4# |



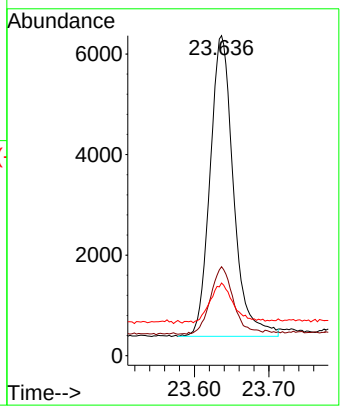


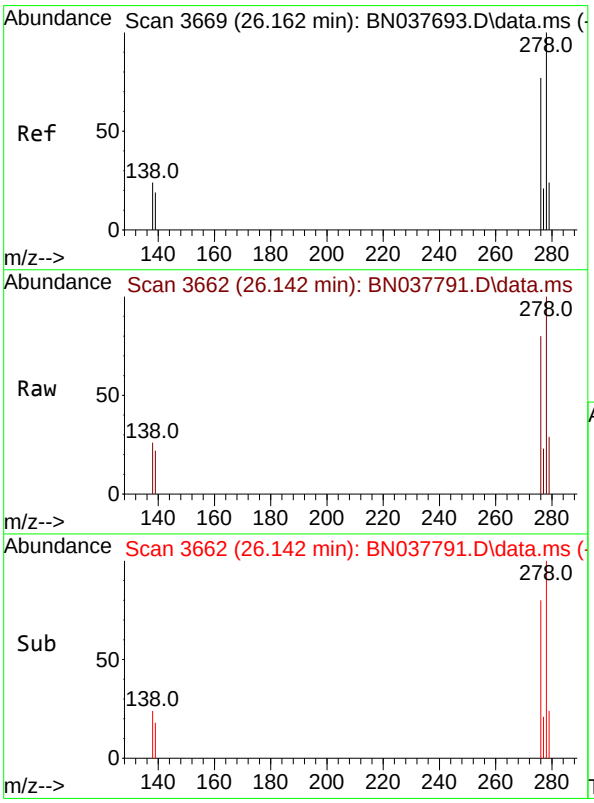

#39
Benzo(a)pyrene
Concen: 0.383 ng
RT: 23.636 min Scan# 2
Delta R.T. -0.012 min
Lab File: BN037791.D
Acq: 18 Sep 2025 23:40

**Instrument :**
BNA_N
**ClientSampleId :**
PB169692BS

Tgt Ion:252 Resp: 13066

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 27.8 | 20.8 | 31.2 |
| 125 | 22.7 | 13.9 | 20.9# |

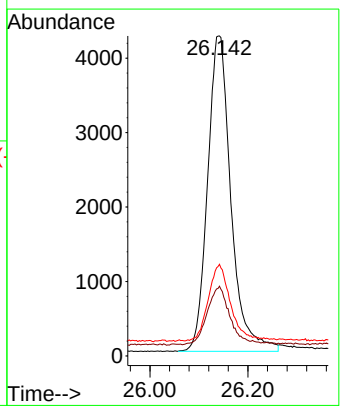


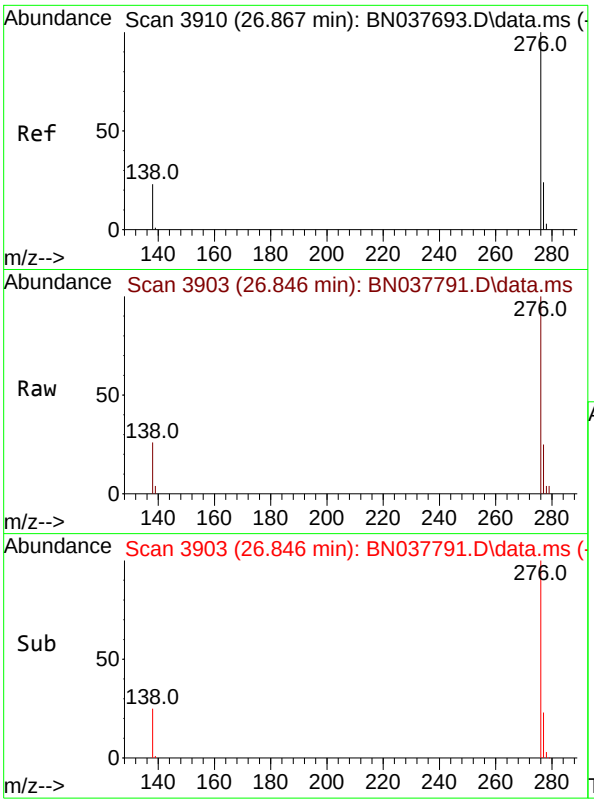




#40
Dibenzo(a,h)anthracene
Concen: 0.387 ng
RT: 26.142 min Scan# 3662
Delta R.T. -0.020 min
Lab File: BN037791.D
Acq: 18 Sep 2025 23:40

Tgt Ion:278 Resp: 14014

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 278 | 100 | | |
| 139 | 21.8 | 17.8 | 26.6 |
| 279 | 28.6 | 22.0 | 33.0 |



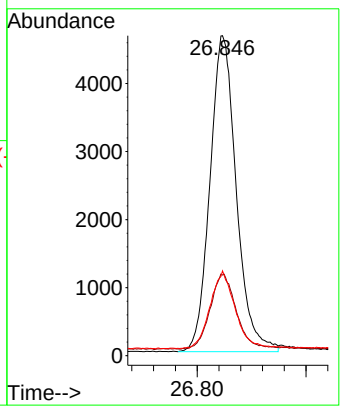



#41
Benzo(g,h,i)perylene
Concen: 0.384 ng
RT: 26.846 min Scan# 3
Delta R.T. -0.020 min
Lab File: BN037791.D
Acq: 18 Sep 2025 23:40

**Instrument :**
BNA_N
**ClientSampleId :**
PB169692BS

Tgt Ion:276 Resp: 15625

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 276 | 100 | | |
| 277 | 25.2 | 20.6 | 31.0 |
| 138 | 26.5 | 20.2 | 30.2 |



Raw Data: **BN037792.D**

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

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | AECOM Technical Services, Inc. | Date Collected: | |
| Project: | NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258 | Date Received: | |
| Client Sample ID: | PB169693BS | SDG No.: | Q3095 |
| Lab Sample ID: | PB169693BS | Matrix: | Water |
| Analytical Method: | SW8270ESIM | % Solid: | 0 |
| Sample Wt/Vol: | 1000 Units: mL | Final Vol: | 1000 uL |
| Soil Aliquot Vol: | uL | Test: | SVOC-SIMGroup1 |
| Extraction Type : | Decanted : N | Level : | LOW |
| Injection Volume : | GPC Factor : 1.0 | GPC Cleanup : N | PH : |
| Prep Method : | | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| BN037792.D | 1 | 09/15/25 12:00 | 09/19/25 00:16 | PB169693 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOD | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | | |
| 123-91-1 | 1,4-Dioxane | 0.31 | | 0.070 | 0.20 | 0.20 | ug/L |
| **SURROGATES** | | | | | | | |
| 7297-45-2 | 2-Methylnaphthalene-d10 | 0.31 | | 30 - 150 | | 77% | SPK: 0.4 |
| 93951-69-0 | Fluoranthene-d10 | 0.29 | | 30 - 150 | | 73% | SPK: 0.4 |
| 4165-60-0 | Nitrobenzene-d5 | 0.36 | | 55 - 111 | | 90% | SPK: 0.4 |
| 321-60-8 | 2-Fluorobiphenyl | 0.37 | | 53 - 106 | | 92% | SPK: 0.4 |
| 1718-51-0 | Terphenyl-d14 | 0.32 | | 58 - 132 | | 81% | SPK: 0.4 |
| **INTERNAL STANDARDS** | | | | | | | |
| 3855-82-1 | 1,4-Dichlorobenzene-d4 | 7440 | 7.833 | | | | |
| 1146-65-2 | Naphthalene-d8 | 19400 | 10.637 | | | | |
| 15067-26-2 | Acenaphthene-d10 | 8150 | 14.484 | | | | |
| 1517-22-2 | Phenanthrene-d10 | 12400 | 17.235 | | | | |
| 1719-03-5 | Chrysene-d12 | 10100 | 21.411 | | | | |
| 1520-96-3 | Perylene-d12 | 10200 | 23.738 | | | | |

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\BN091825\
Data File : BN037792.D
Acq On : 19 Sep 2025 00:16
Operator : RC/JU
Sample : PB169693BS
Misc :
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Sep 19 04:12:55 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN091125.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Sep 11 14:20:01 2025
Response via : Initial Calibration

**Instrument :**
BNA_N
**ClientSampleId :**
PB169693BS

**Manual Integrations APPROVED**

Reviewed By :Rahul Chavli 09/19/2025
Supervised By :mohammad ahmed 09/23/2025

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) 1,4-Dichlorobenzene-d4 | 7.833 | 152 | 7441 | 0.400 | ng | 0.00 |
| 7) Naphthalene-d8 | 10.637 | 136 | 19392 | 0.400 | ng | -0.01 |
| 13) Acenaphthene-d10 | 14.484 | 164 | 8149 | 0.400 | ng | -0.01 |
| 19) Phenanthrene-d10 | 17.235 | 188 | 12386 | 0.400 | ng | # 0.00 |
| 29) Chrysene-d12 | 21.411 | 240 | 10095 | 0.400 | ng | 0.00 |
| 35) Perylene-d12 | 23.738 | 264 | 10200 | 0.400 | ng | #-0.01 |
| System Monitoring Compounds | | | | | | |
| 4) 2-Fluorophenol | 5.399 | 112 | 5555 | 0.325 | ng | 0.00 |
| 5) Phenol-d6 | 6.980 | 99 | 6563 | 0.296 | ng | 0.00 |
| 8) Nitrobenzene-d5 | 8.982 | 82 | 5088 | 0.359 | ng | -0.01 |
| 11) 2-Methylnaphthalene-d10 | 12.232 | 152 | 7932 | 0.309 | ng | -0.01 |
| 14) 2,4,6-Tribromophenol | 15.982 | 330 | 674 | 0.317 | ng | 0.00 |
| 15) 2-Fluorobiphenyl | 13.105 | 172 | 12492 | 0.367 | ng | -0.01 |
| 27) Fluoranthene-d10 | 19.262 | 212 | 9050 | 0.291 | ng | 0.00 |
| 31) Terphenyl-d14 | 19.861 | 244 | 6591 | 0.322 | ng | 0.00 |
| Target Compounds | | | | | | Qvalue |
| 2) 1,4-Dioxane | 3.304 | 88 | 2366 | 0.305 | ng | # 85 |
| 3) n-Nitrosodimethylamine | 3.600 | 42 | 3300 | 0.326 | ng | # 90 |
| 6) bis(2-Chloroethyl)ether | 7.248 | 93 | 6941 | 0.351 | ng | 100 |
| 9) Naphthalene | 10.680 | 128 | 17810 | 0.336 | ng | 99 |
| 10) Hexachlorobutadiene | 10.989 | 225 | 3379 | 0.352 | ng | # 99 |
| 12) 2-Methylnaphthalene | 12.303 | 142 | 9820 | 0.299 | ng | 99 |
| 16) Acenaphthylene | 14.206 | 152 | 13377 | 0.358 | ng | 99 |
| 17) Acenaphthene | 14.548 | 154 | 8509 | 0.337 | ng | 99 |
| 18) Fluorene | 15.535 | 166 | 9452 | 0.309 | ng | 99 |
| 20) 4,6-Dinitro-2-methylph... | 15.609 | 198 | 305 | 0.266 | ng | # 88 |
| 21) 4-Bromophenyl-phenylether | 16.428 | 248 | 2895 | 0.358 | ng | # 92 |
| 22) Hexachlorobenzene | 16.540 | 284 | 3601 | 0.388 | ng | 98 |
| 23) Atrazine | 16.689 | 200 | 1710 | 0.333 | ng | # 94 |
| 24) Pentachlorophenol | 16.888 | 266 | 1388 | 0.515 | ng | 98 |
| 25) Phenanthrene | 17.273 | 178 | 13505 | 0.346 | ng | 100 |
| 26) Anthracene | 17.359 | 178 | 11748 | 0.340 | ng | 99 |
| 28) Fluoranthene | 19.294 | 202 | 12912 | 0.302 | ng | 100 |
| 30) Pyrene | 19.652 | 202 | 12854 | 0.325 | ng | 100 |
| 32) Benzo(a)anthracene | 21.393 | 228 | 12540 | 0.356 | ng | 100 |
| 33) Chrysene | 21.447 | 228 | 13567 | 0.359 | ng | 100 |
| 34) Bis(2-ethylhexyl)phtha... | 21.331 | 149 | 3708 | 0.355 | ng | 98 |
| 36) Indeno(1,2,3-cd)pyrene | 26.118 | 276 | 17423 | 0.407 | ng | 99 |
| 37) Benzo(b)fluoranthene | 23.034 | 252 | 14955 | 0.372 | ng | # 96 |
| 38) Benzo(k)fluoranthene | 23.081 | 252 | 14241m | 0.348 | ng | |
| 39) Benzo(a)pyrene | 23.633 | 252 | 12714 | 0.395 | ng | # 94 |
| 40) Dibenzo(a,h)anthracene | 26.142 | 278 | 13475 | 0.394 | ng | 99 |
| 41) Benzo(g,h,i)perylene | 26.843 | 276 | 15272 | 0.398 | ng | 99 |

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

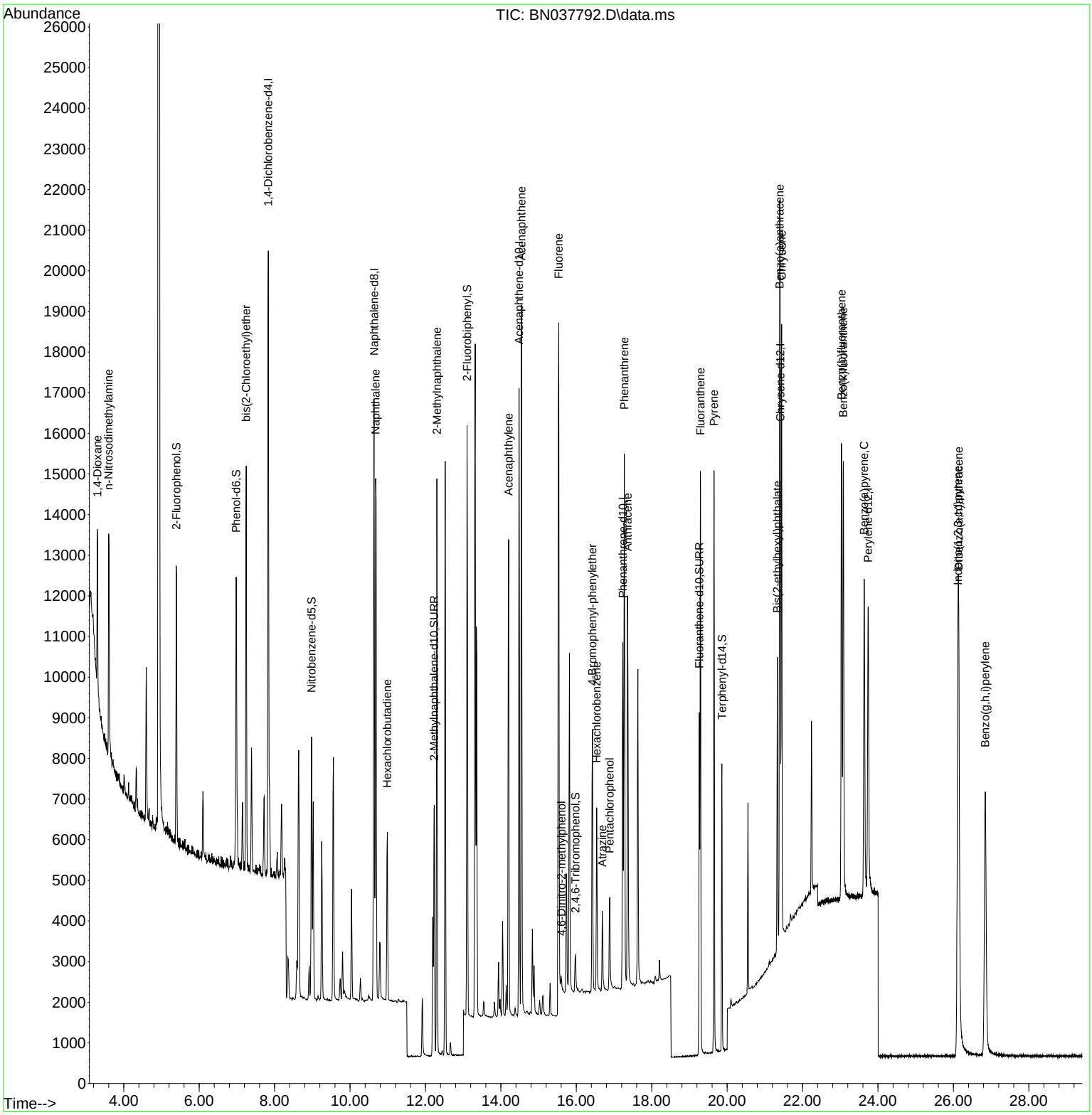
Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN091825\
Data File : BN037792.D
Acq On : 19 Sep 2025 00:16
Operator : RC/JU
Sample : PB169693BS
Misc :
ALS Vial : 18 Sample Multiplier: 1

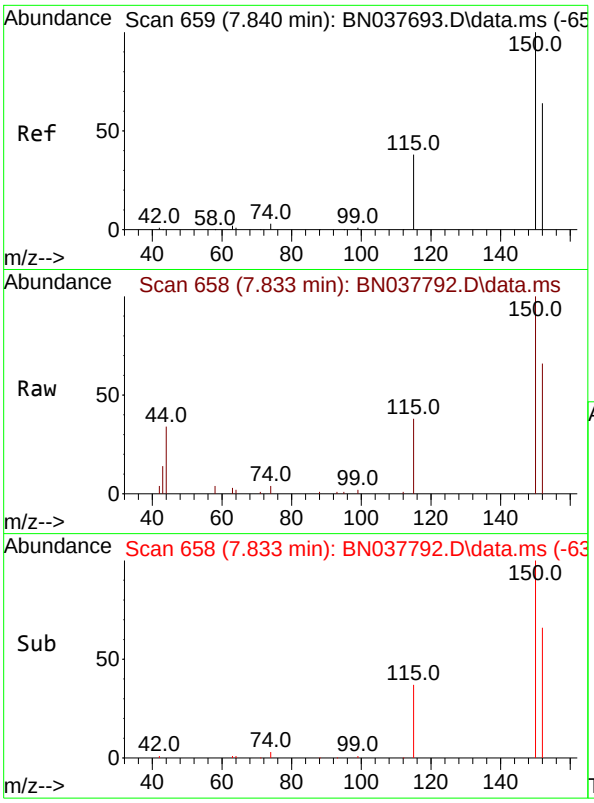
Quant Time: Sep 19 04:12:55 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN091125.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Sep 11 14:20:01 2025
Response via : Initial Calibration

**Instrument :**
BNA_N
**ClientSampleId :**
PB169693BS

**Manual Integrations APPROVED**

Reviewed By :Rahul Chavli 09/19/2025
Supervised By :mohammad ahmed 09/23/2025

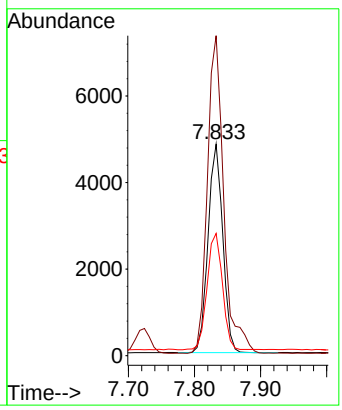





#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.833 min Scan# 6
Delta R.T. -0.007 min
Lab File: BN037792.D
Acq: 19 Sep 2025 00:16

Tgt Ion:152 Resp: 744

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 150 | 151.3 | 124.5 | 186.7 |
| 115 | 57.8 | 49.2 | 73.8 |




**Instrument :**
BNA_N
**ClientSampleId :**
PB169693BS

**Manual Integrations**
**APPROVED**

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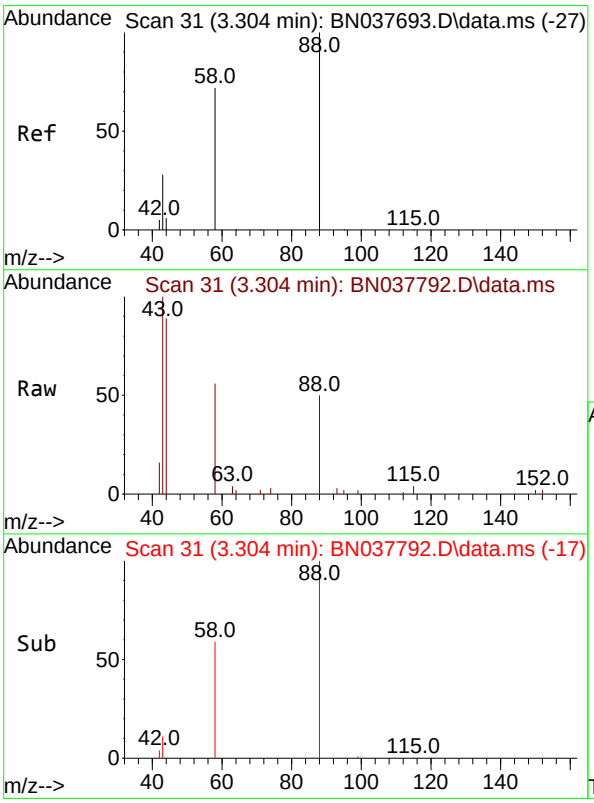
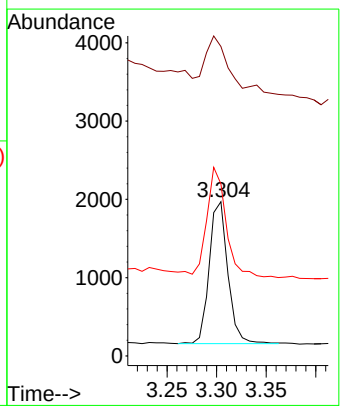
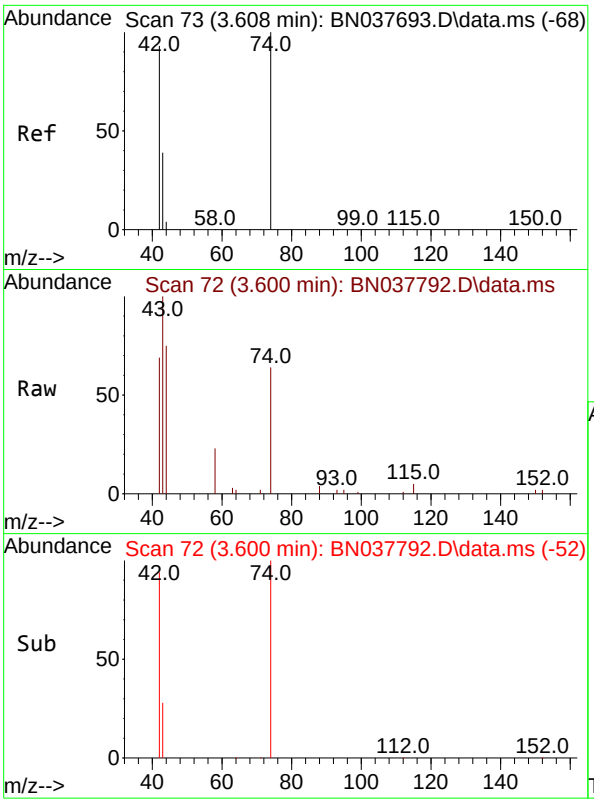



#2
1,4-Dioxane
Concen: 0.305 ng
RT: 3.304 min Scan# 31
Delta R.T. -0.000 min
Lab File: BN037792.D
Acq: 19 Sep 2025 00:16

Tgt Ion: 88 Resp: 2366

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 88 | 100 | | |
| 43 | 56.6 | 26.8 | 40.2# |
| 58 | 80.3 | 61.9 | 92.9 |






#3
n-Nitrosodimethylamine
Concen: 0.326 ng
RT: 3.600 min Scan# 7
Delta R.T. -0.007 min
Lab File: BN037792.D
Acq: 19 Sep 2025 00:16

Tgt Ion: 42 Resp: 330

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 42 | 100 | | |
| 74 | 118.9 | 86.0 | 129.0 |
| 44 | 8.3 | 8.4 | 12.6 |

**Instrument :**
BNA_N
**ClientSampleId :**
PB169693BS

**Manual Integrations**
**APPROVED**

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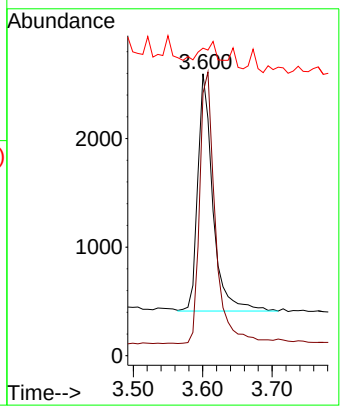
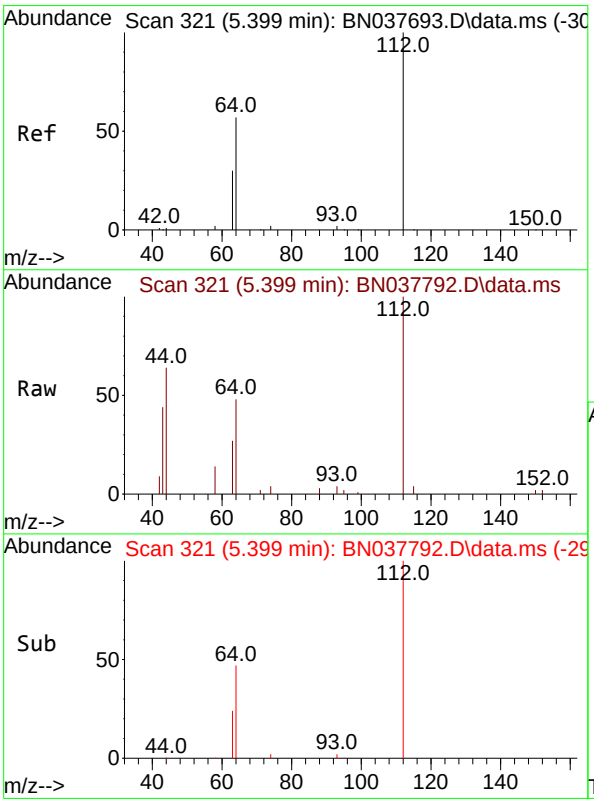
Supervised By :mohammad ahmed 09/23/2025

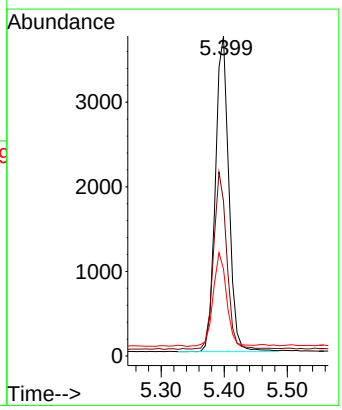


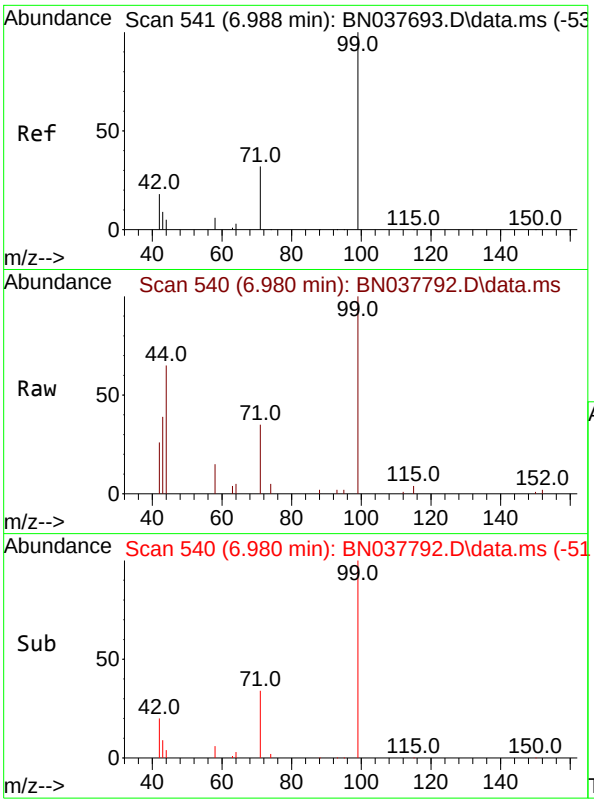




#4
2-Fluorophenol
Concen: 0.325 ng
RT: 5.399 min Scan# 321
Delta R.T. -0.000 min
Lab File: BN037792.D
Acq: 19 Sep 2025 00:16

Tgt Ion:112 Resp: 5555

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 112 | 100 | | |
| 64 | 55.5 | 44.9 | 67.3 |
| 63 | 29.6 | 24.7 | 37.1 |

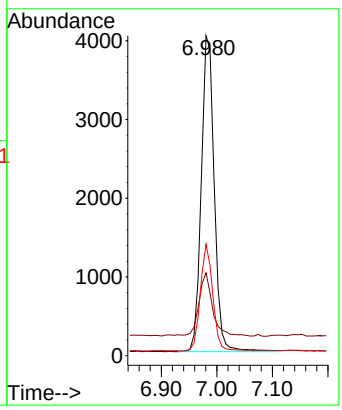





#5
Phenol-d6
Concen: 0.296 ng
RT: 6.980 min Scan# 54
Delta R.T. -0.007 min
Lab File: BN037792.D
Acq: 19 Sep 2025 00:16

Tgt Ion: 99 Resp: 656

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 99 | 100 | | |
| 42 | 20.6 | 16.6 | 24.8 |
| 71 | 32.2 | 26.7 | 40.1 |




**Instrument :**
BNA_N
**ClientSampleId :**
PB169693BS

**Manual Integrations**
**APPROVED**

Reviewed By :Rahul Chavli 09/19/2025
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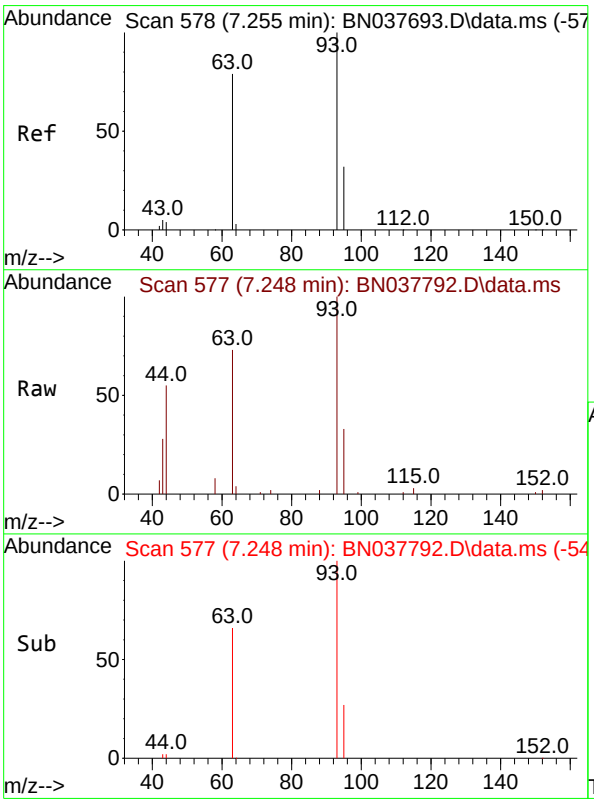
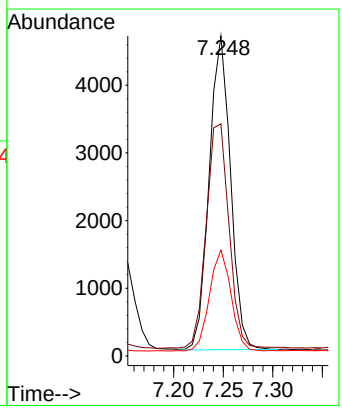
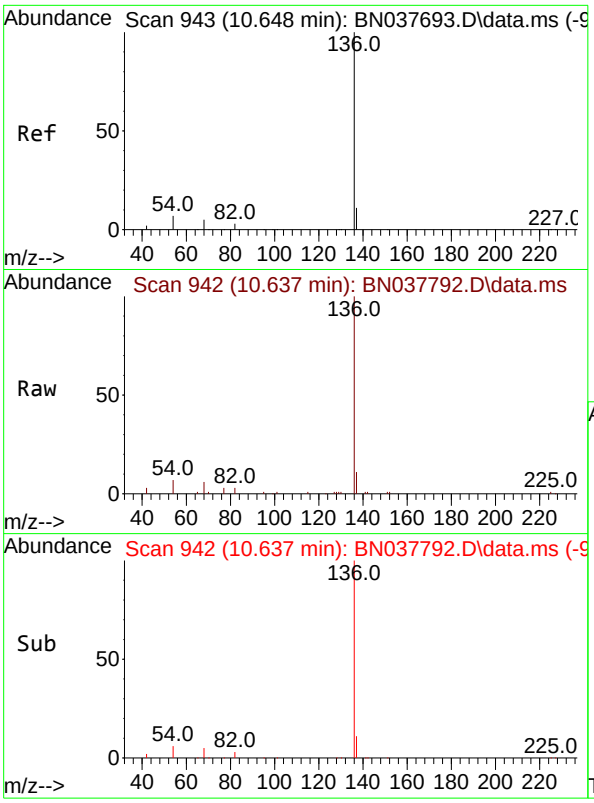



#6
bis(2-Chloroethyl)ether
Concen: 0.351 ng
RT: 7.248 min Scan# 577
Delta R.T. -0.007 min
Lab File: BN037792.D
Acq: 19 Sep 2025 00:16

Tgt Ion: 93 Resp: 6941

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 93 | 100 | | |
| 63 | 76.1 | 60.6 | 90.8 |
| 95 | 32.6 | 26.0 | 39.0 |






#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.637 min Scan# 94
Delta R.T. -0.011 min
Lab File: BN037792.D
Acq: 19 Sep 2025 00:16

**Instrument :**
BNA_N
**ClientSampleId :**
PB169693BS

Tgt Ion:136 Resp: 1939

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 136 | 100 | | |
| 137 | 11.2 | 9.1 | 13.7 |
| 54 | 6.8 | 6.3 | 9.5 |
| 68 | 5.8 | 5.0 | 7.4 |

**Manual Integrations**
**APPROVED**

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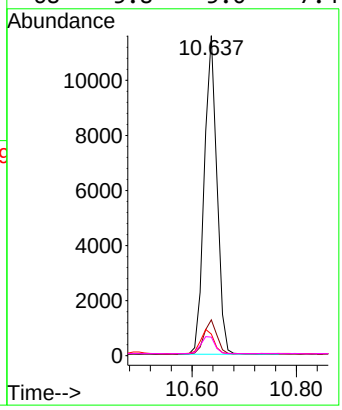
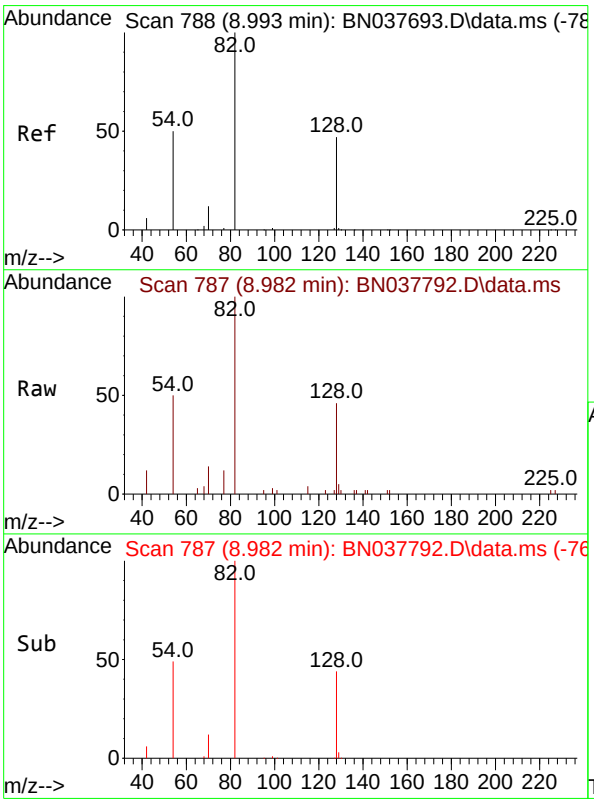
Supervised By :mohammad ahmed 09/23/2025

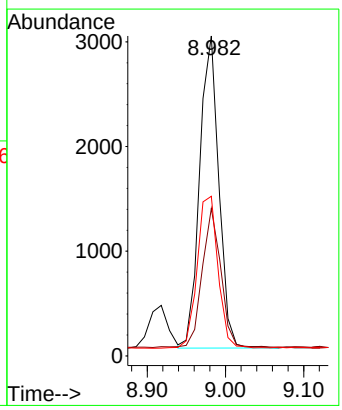


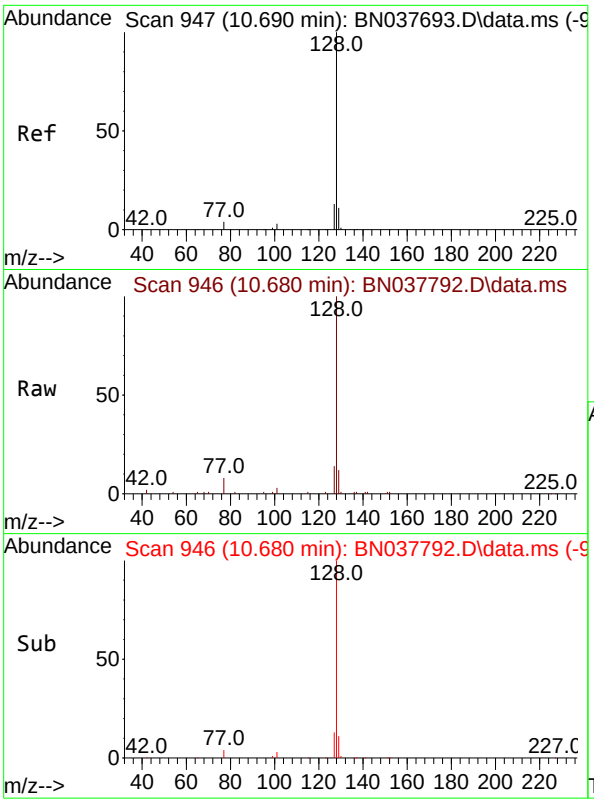




#8
Nitrobenzene-d5
Concen: 0.359 ng
RT: 8.982 min Scan# 787
Delta R.T. -0.011 min
Lab File: BN037792.D
Acq: 19 Sep 2025 00:16

Tgt Ion: 82 Resp: 5088

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 82 | 100 | | |
| 128 | 46.1 | 38.3 | 57.5 |
| 54 | 49.9 | 41.4 | 62.2 |

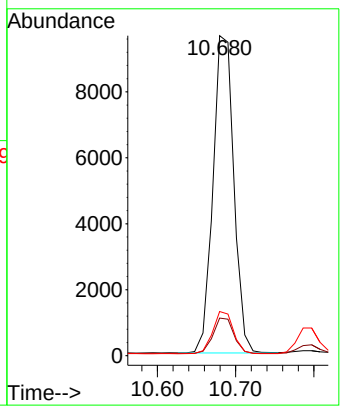





#9
Naphthalene
Concen: 0.336 ng
RT: 10.680 min Scan# 9
Delta R.T. -0.011 min
Lab File: BN037792.D
Acq: 19 Sep 2025 00:16

Tgt Ion:128 Resp: 1781

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 128 | 100 | | |
| 129 | 11.7 | 9.1 | 13.7 |
| 127 | 13.8 | 10.9 | 16.3 |




**Instrument :**
BNA_N
**ClientSampleId :**
PB169693BS

**Manual Integrations**
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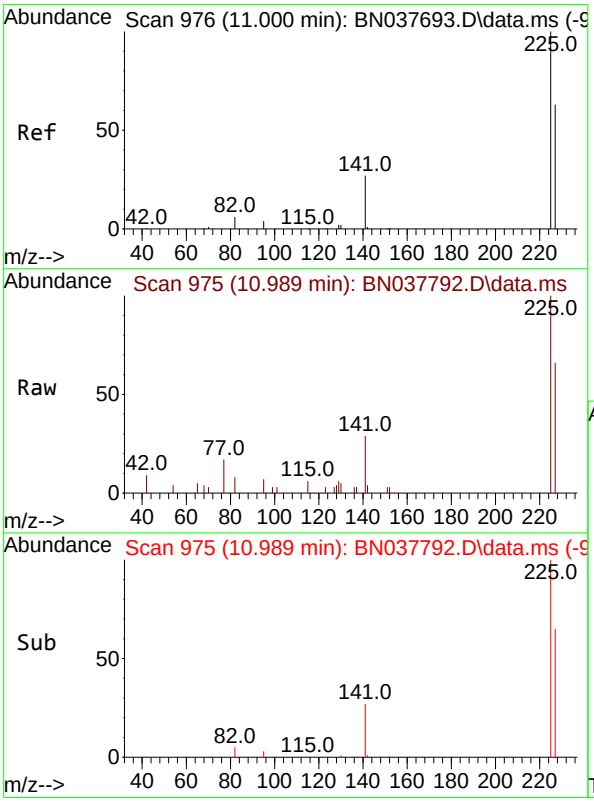
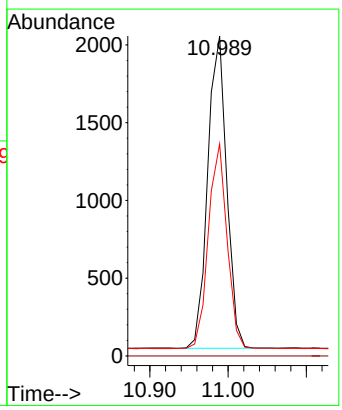
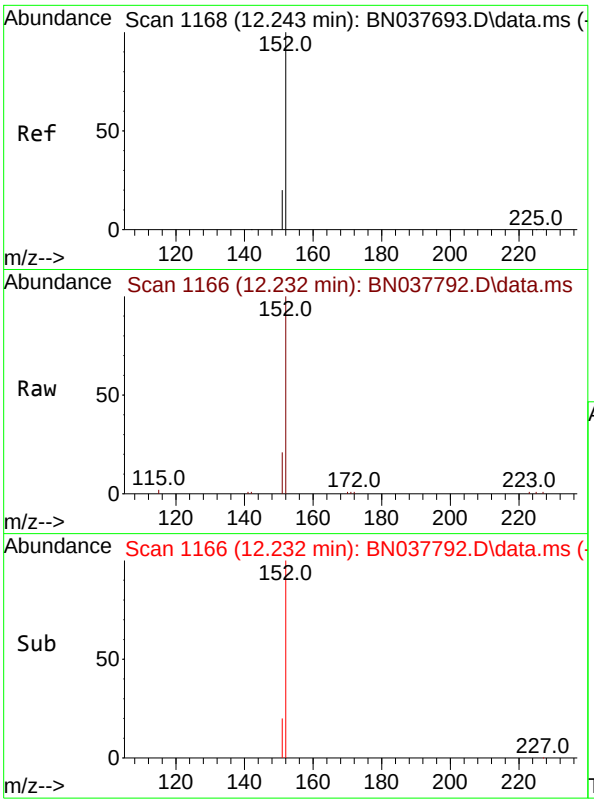



#10
Hexachlorobutadiene
Concen: 0.352 ng
RT: 10.989 min Scan# 975
Delta R.T. -0.011 min
Lab File: BN037792.D
Acq: 19 Sep 2025 00:16

Tgt Ion:225 Resp: 3379

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 225 | 100 | | |
| 223 | 0.0 | 0.0 | 0.0 |
| 227 | 64.5 | 50.9 | 76.3 |






#11
2-Methylnaphthalene-d10
Concen: 0.309 ng
RT: 12.232 min Scan# 11
Delta R.T. -0.010 min
Lab File: BN037792.D
Acq: 19 Sep 2025 00:16

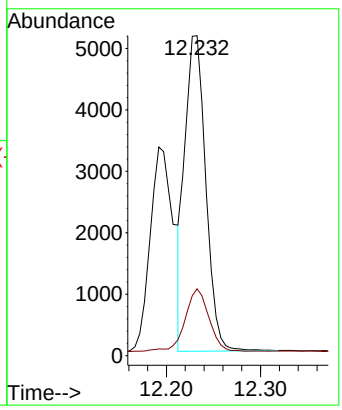
Tgt Ion:152 Resp: 793

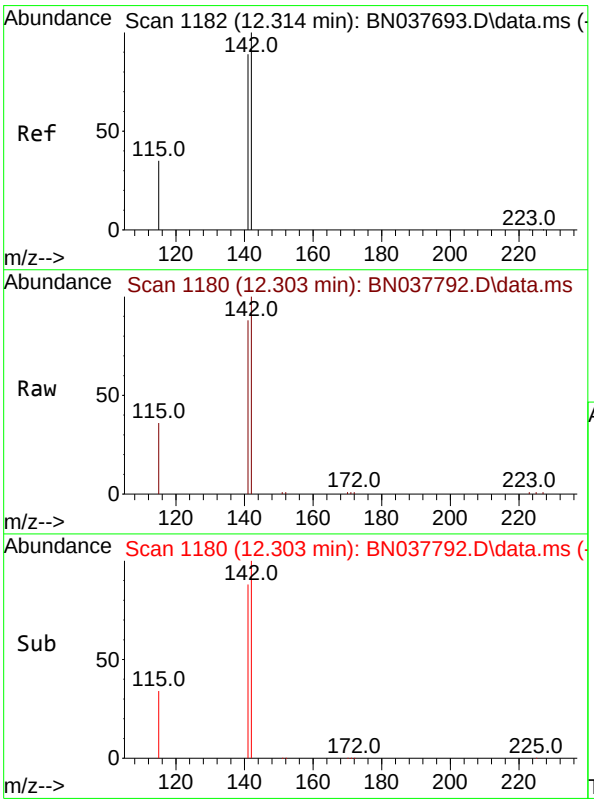
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 151 | 22.6 | 17.0 | 25.6 |

**Instrument :**
BNA_N
**ClientSampleId :**
PB169693BS

**Manual Integrations**
**APPROVED**

Reviewed By :Rahul Chavli 09/19/2025
Supervised By :mohammad ahmed 09/23/2025

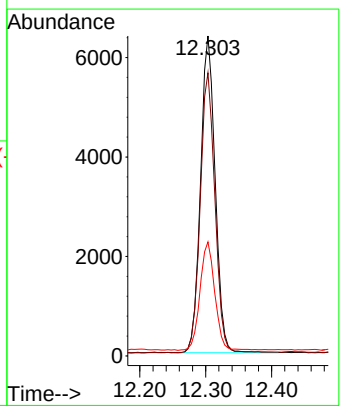


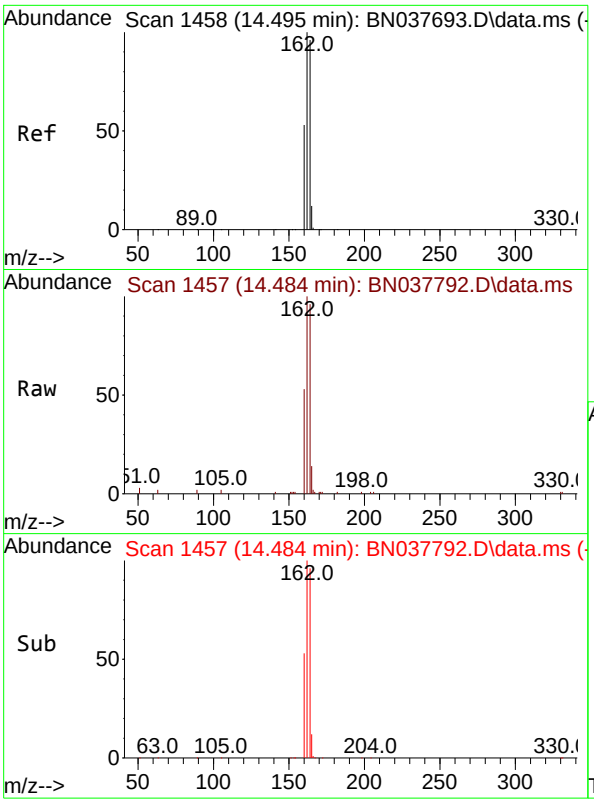




#12
2-Methylnaphthalene
Concen: 0.299 ng
RT: 12.303 min Scan# 1180
Delta R.T. -0.010 min
Lab File: BN037792.D
Acq: 19 Sep 2025 00:16

Tgt Ion:142 Resp: 9820

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 142 | 100 | | |
| 141 | 88.5 | 71.6 | 107.4 |
| 115 | 35.7 | 28.6 | 43.0 |

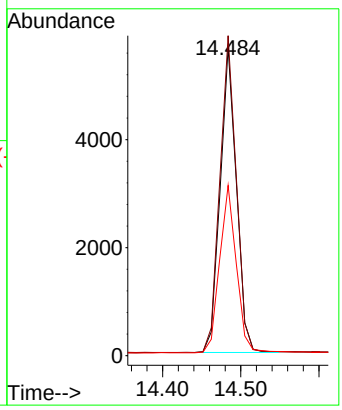





#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.484 min Scan# 14
Delta R.T. -0.011 min
Lab File: BN037792.D
Acq: 19 Sep 2025 00:16

Tgt Ion:164 Resp: 814

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 164 | 100 | | |
| 162 | 103.7 | 83.1 | 124.7 |
| 160 | 55.2 | 44.3 | 66.5 |




**Instrument :**
BNA_N
**ClientSampleId :**
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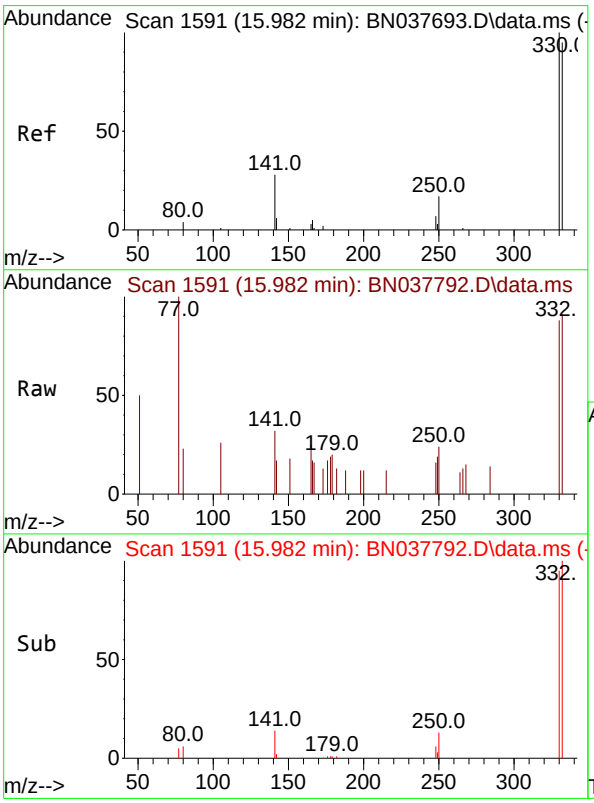
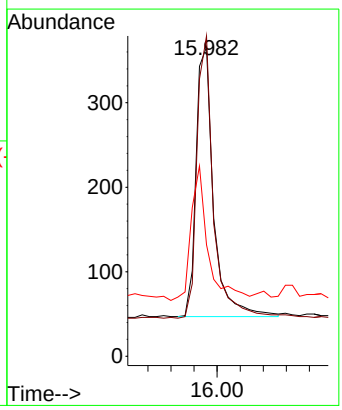
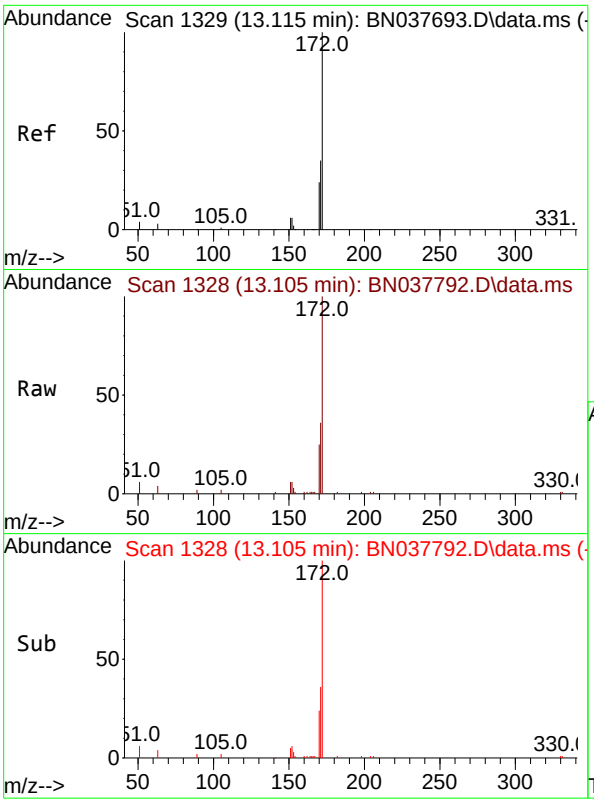



#14
2,4,6-Tribromophenol
Concen: 0.317 ng
RT: 15.982 min Scan# 1591
Delta R.T. -0.000 min
Lab File: BN037792.D
Acq: 19 Sep 2025 00:16

Tgt Ion:330 Resp: 674

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 330 | 100 | | |
| 332 | 99.4 | 75.3 | 112.9 |
| 141 | 47.6 | 35.0 | 52.4 |

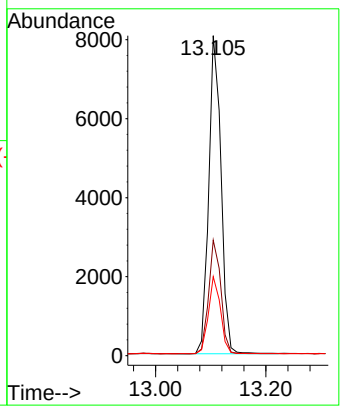





#15
2-Fluorobiphenyl
Concen: 0.367 ng
RT: 13.105 min Scan# 1
Delta R.T. -0.011 min
Lab File: BN037792.D
Acq: 19 Sep 2025 00:16

Tgt Ion:172 Resp: 1249

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 172 | 100 | | |
| 171 | 36.1 | 28.6 | 43.0 |
| 170 | 24.7 | 19.8 | 29.8 |

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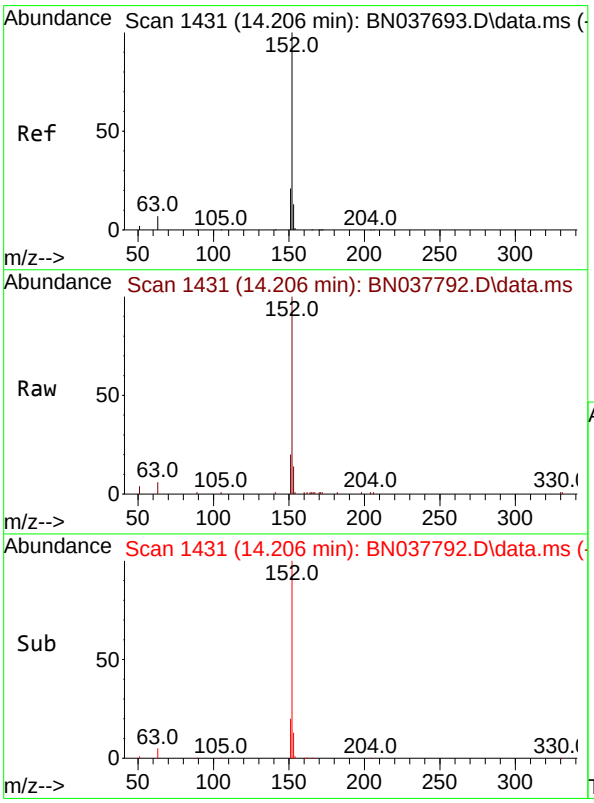
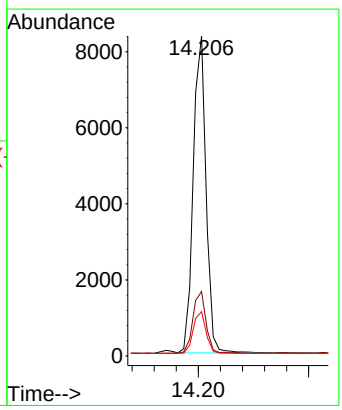
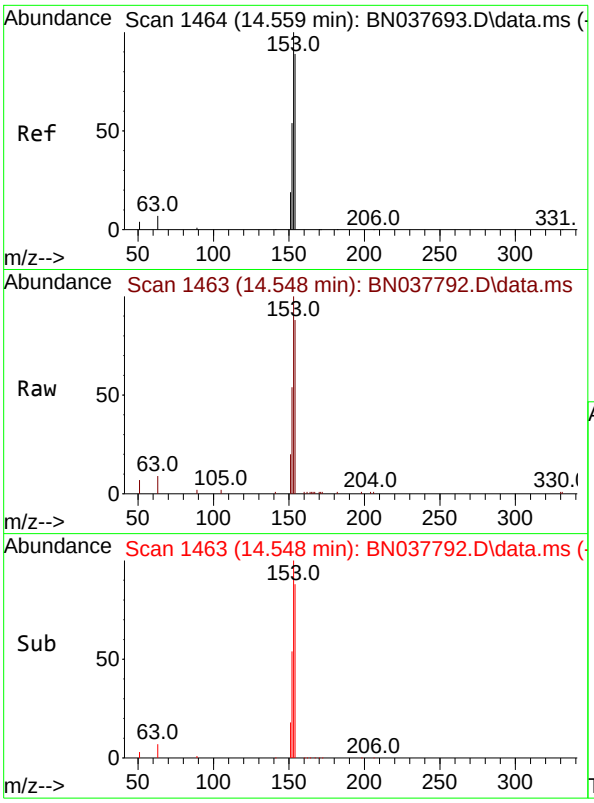



#16
Acenaphthylene
Concen: 0.358 ng
RT: 14.206 min Scan# 1431
Delta R.T. -0.000 min
Lab File: BN037792.D
Acq: 19 Sep 2025 00:16

Tgt Ion:152 Resp: 13377

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 151 | 20.1 | 16.2 | 24.2 |
| 153 | 13.4 | 10.4 | 15.6 |

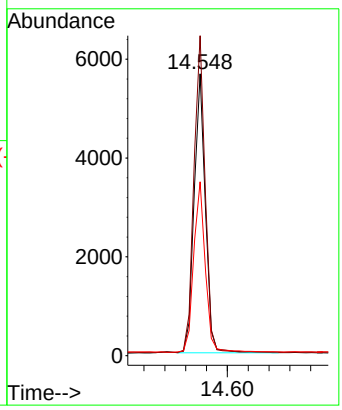





#17
Acenaphthene
Concen: 0.337 ng
RT: 14.548 min Scan# 14
Delta R.T. -0.011 min
Lab File: BN037792.D
Acq: 19 Sep 2025 00:16

Tgt Ion:154 Resp: 850

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 154 | 100 | | |
| 153 | 113.0 | 89.8 | 134.8 |
| 152 | 62.9 | 50.2 | 75.2 |




**Instrument :**
BNA_N
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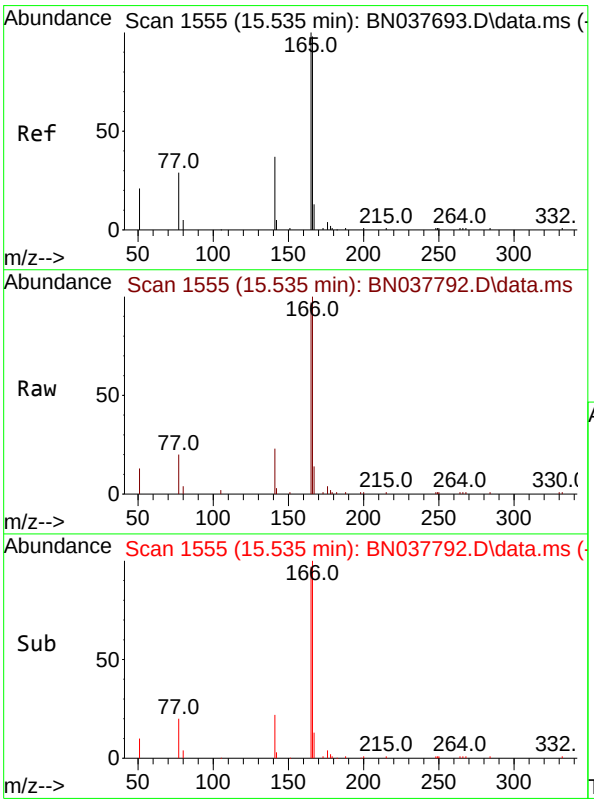
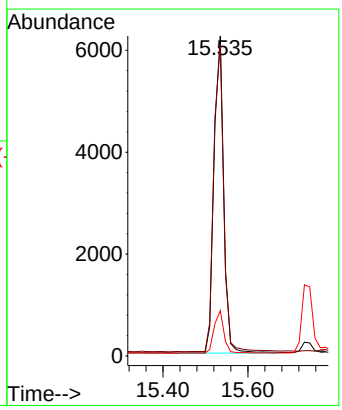
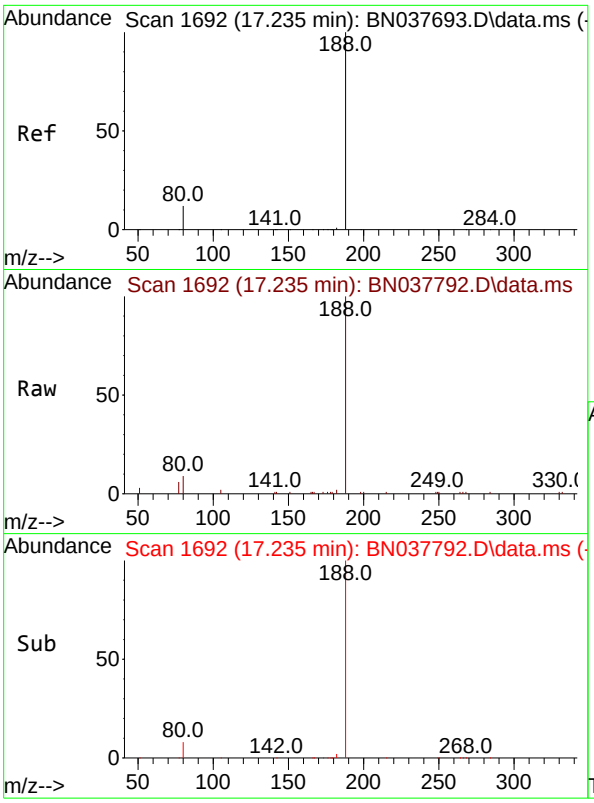



#18
Fluorene
Concen: 0.309 ng
RT: 15.535 min Scan# 1555
Delta R.T. -0.000 min
Lab File: BN037792.D
Acq: 19 Sep 2025 00:16

Tgt Ion:166 Resp: 9452

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 166 | 100 | | |
| 165 | 99.9 | 79.6 | 119.4 |
| 167 | 13.9 | 10.6 | 16.0 |

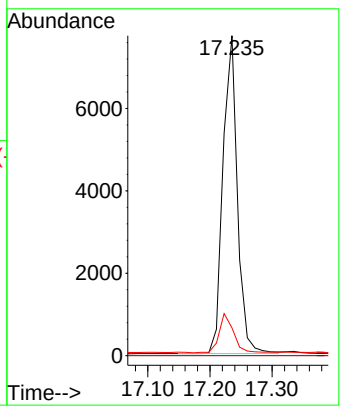





#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.235 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN037792.D
Acq: 19 Sep 2025 00:16

Tgt Ion:188 Resp: 1238

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 188 | 100 | | |
| 94 | 0.0 | 0.0 | 0.0 |
| 80 | 8.7 | 10.6 | 15.8# |

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**ClientSampleId :**
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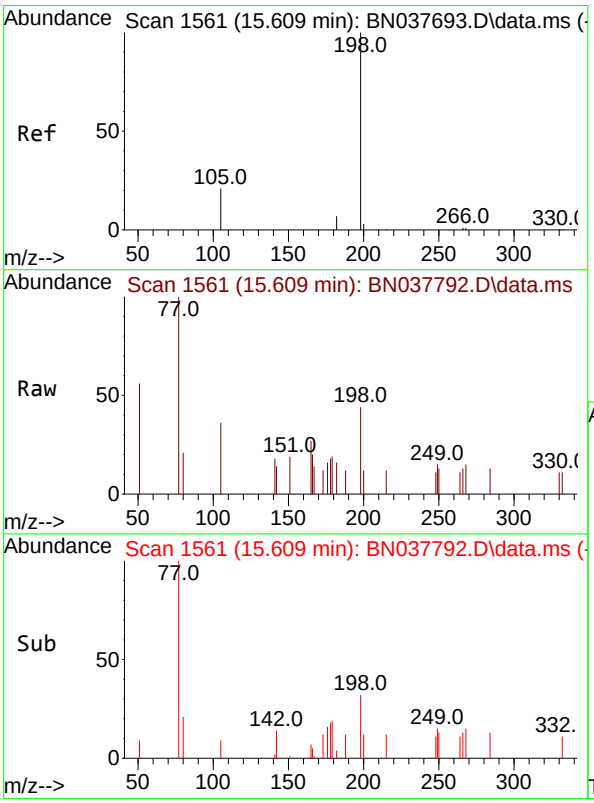
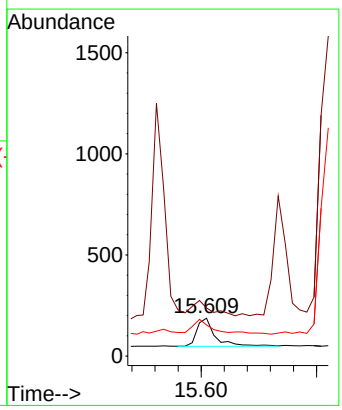
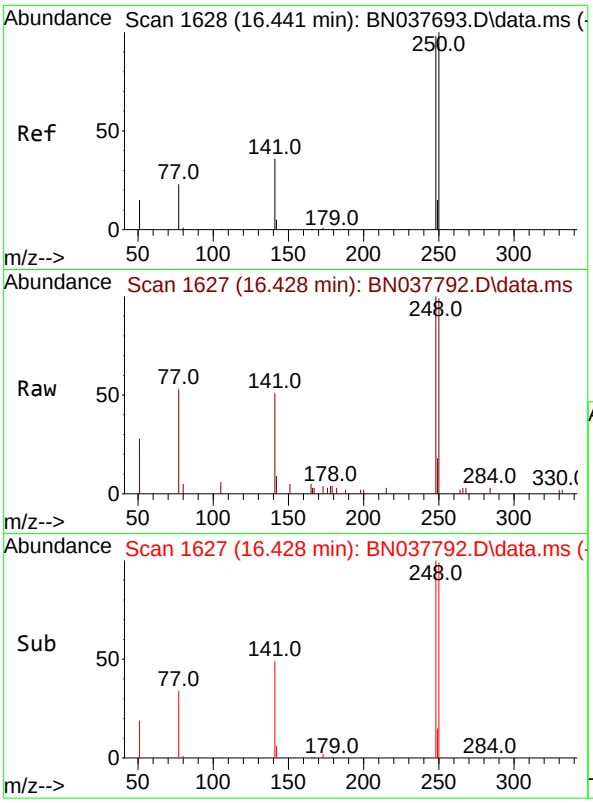



#20
4,6-Dinitro-2-methylphenol
Concen: 0.266 ng
RT: 15.609 min Scan# 1561
Delta R.T. 0.000 min
Lab File: BN037792.D
Acq: 19 Sep 2025 00:16

Tgt Ion:198 Resp: 305

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 198 | 100 | | |
| 51 | 127.3 | 95.1 | 142.7 |
| 105 | 82.4 | 53.8 | 80.6# |

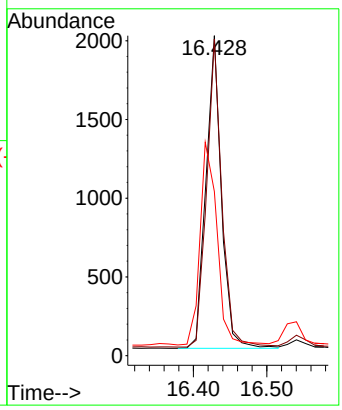





#21
4-Bromophenyl-phenylether
Concen: 0.358 ng
RT: 16.428 min Scan# 1(
Delta R.T. -0.013 min
Lab File: BN037792.D
Acq: 19 Sep 2025 00:16

Tgt Ion:248 Resp: 289

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 248 | 100 | | |
| 250 | 99.0 | 81.5 | 122.3 |
| 141 | 51.3 | 30.8 | 46.2 |




**Instrument :**
BNA_N
**ClientSampleId :**
PB169693BS

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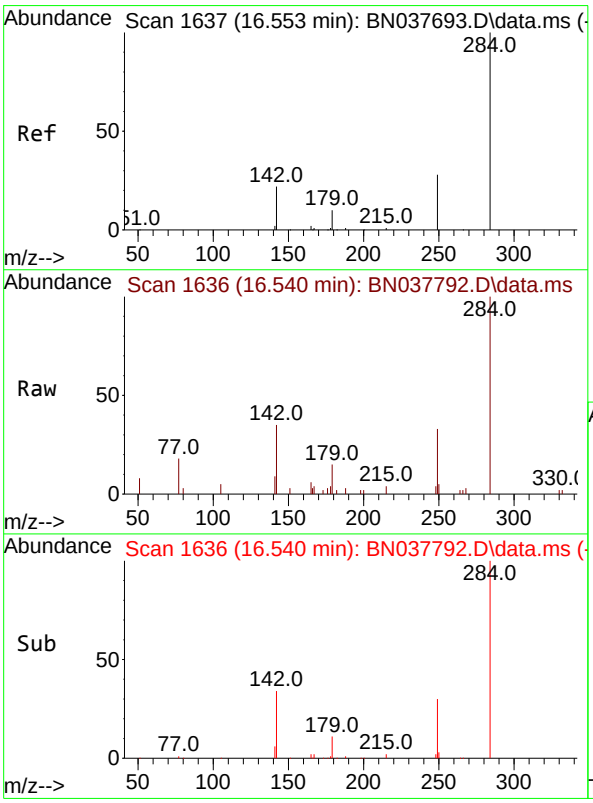
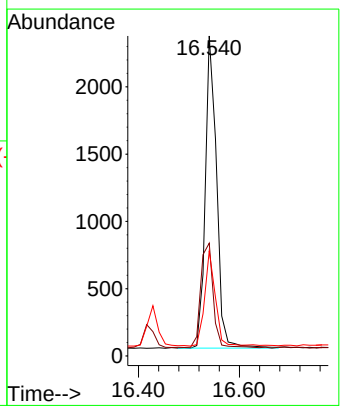
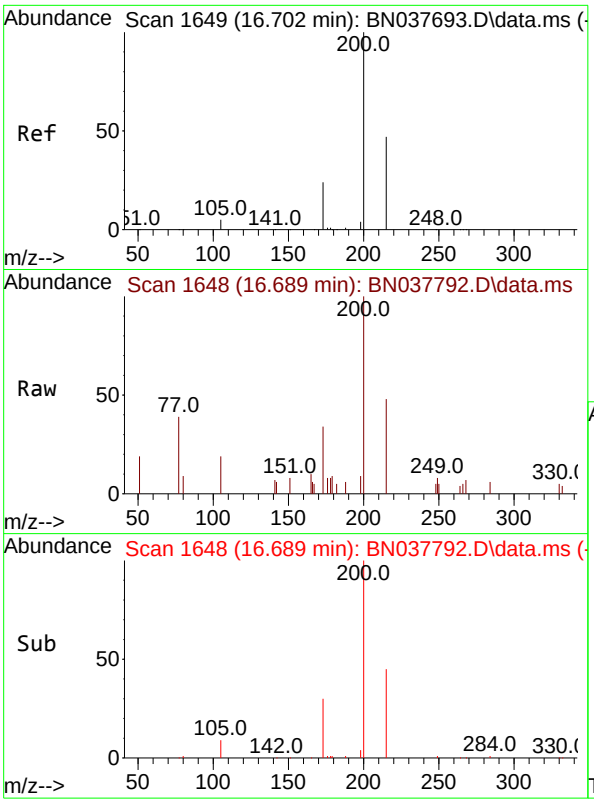



#22
Hexachlorobenzene
Concen: 0.388 ng
RT: 16.540 min Scan# 1636
Delta R.T. -0.013 min
Lab File: BN037792.D
Acq: 19 Sep 2025 00:16

Tgt Ion:284 Resp: 3601

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 284 | 100 | | |
| 142 | 37.9 | 30.9 | 46.3 |
| 249 | 28.9 | 24.8 | 37.2 |

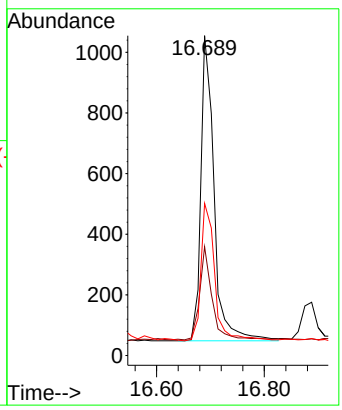





#23
Atrazine
Concen: 0.333 ng
RT: 16.689 min Scan# 1(
Delta R.T. -0.013 min
Lab File: BN037792.D
Acq: 19 Sep 2025 00:16

Tgt Ion:200 Resp: 171(

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 200 | 100 | | |
| 173 | 34.0 | 21.4 | 32.2# |
| 215 | 47.6 | 39.2 | 58.8 |




**Instrument :**
BNA_N
**ClientSampleId :**
PB169693BS

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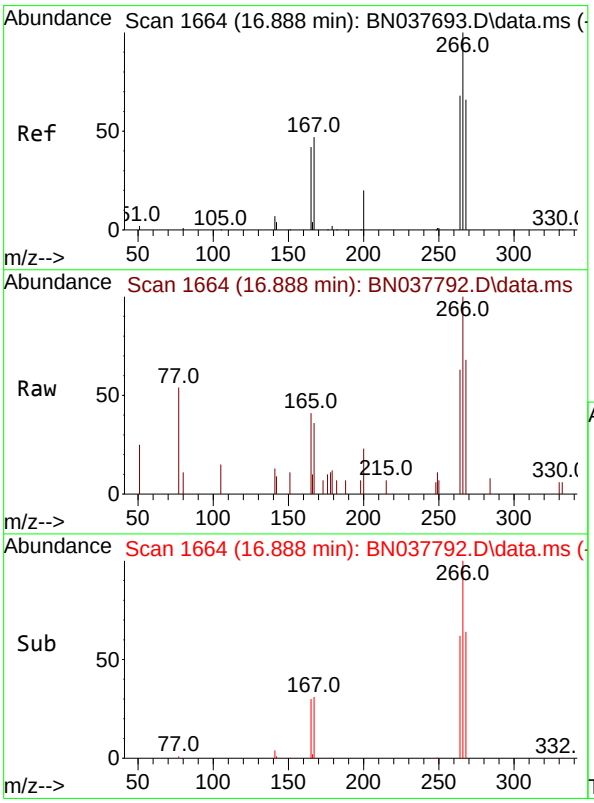
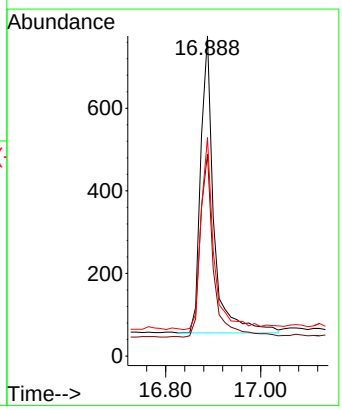
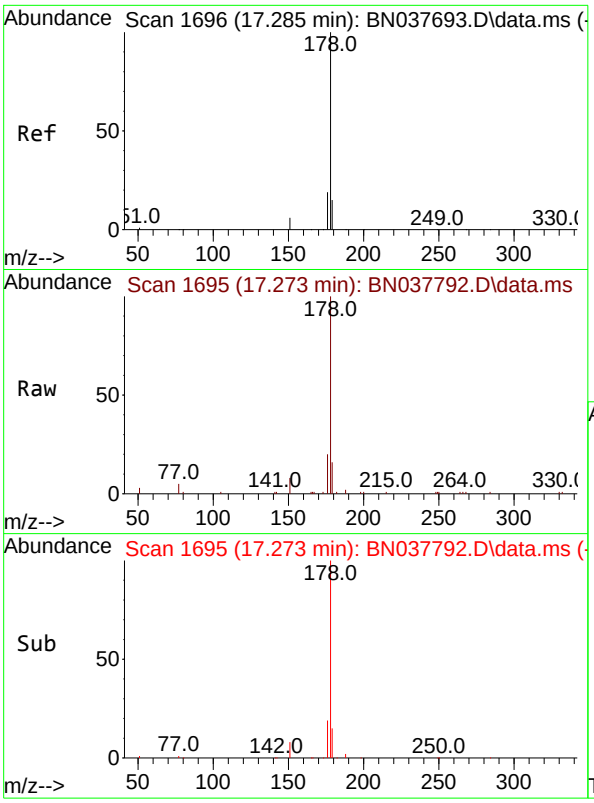



#24
Pentachlorophenol
Concen: 0.515 ng
RT: 16.888 min Scan# 1664
Delta R.T. -0.000 min
Lab File: BN037792.D
Acq: 19 Sep 2025 00:16

Tgt Ion:266 Resp: 1388

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 266 | 100 | | |
| 264 | 62.3 | 51.6 | 77.4 |
| 268 | 65.3 | 53.2 | 79.8 |

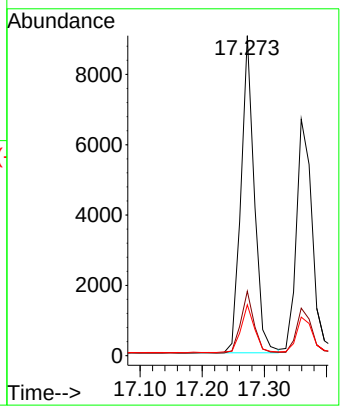





#25
Phenanthrene
Concen: 0.346 ng
RT: 17.273 min Scan# 1(
Delta R.T. -0.013 min
Lab File: BN037792.D
Acq: 19 Sep 2025 00:16

Tgt Ion:178 Resp: 1350

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 178 | 100 | | |
| 176 | 19.4 | 15.3 | 22.9 |
| 179 | 15.3 | 12.2 | 18.2 |




**Instrument :**
BNA_N
**ClientSampleId :**
PB169693BS

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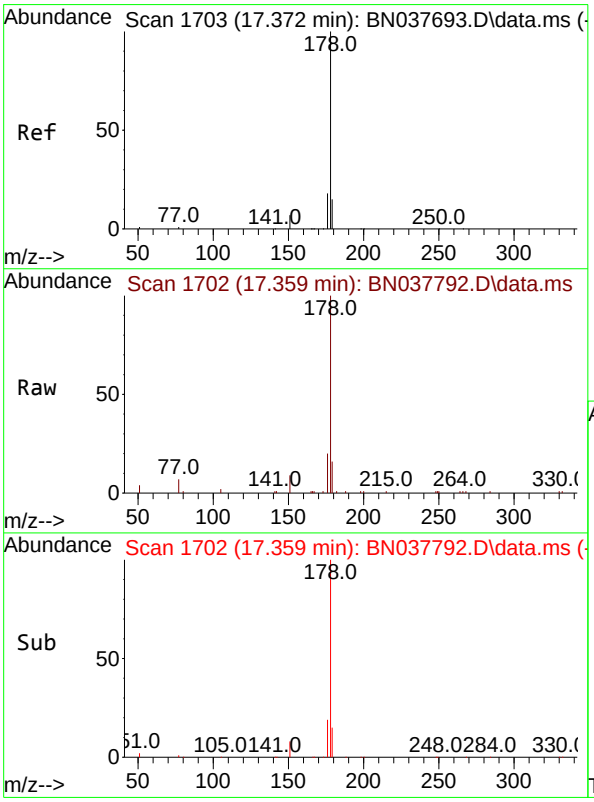
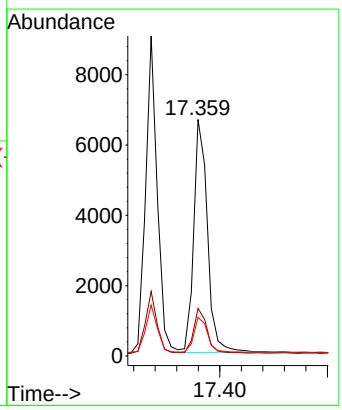
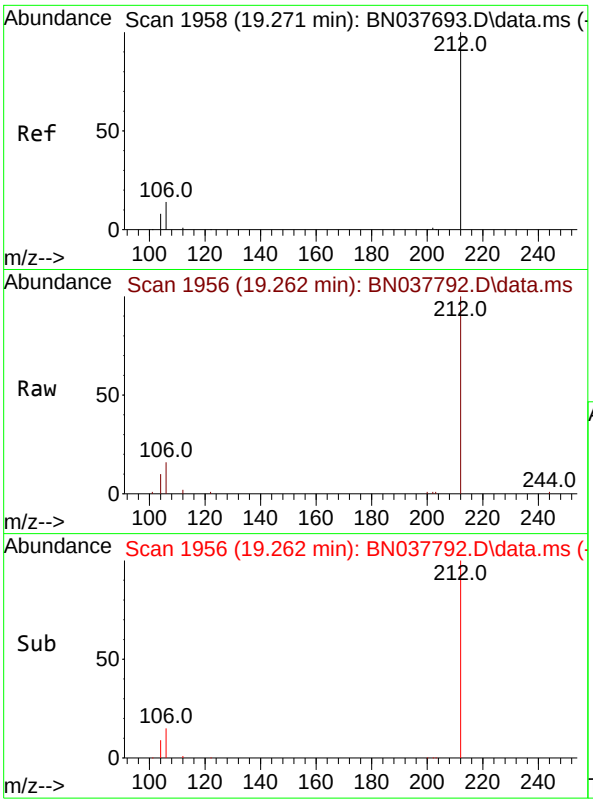



#26
Anthracene
Concen: 0.340 ng
RT: 17.359 min Scan# 1702
Delta R.T. -0.013 min
Lab File: BN037792.D
Acq: 19 Sep 2025 00:16

Tgt Ion:178 Resp: 11748

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 178 | 100 | | |
| 176 | 19.0 | 14.6 | 22.0 |
| 179 | 15.4 | 12.2 | 18.4 |

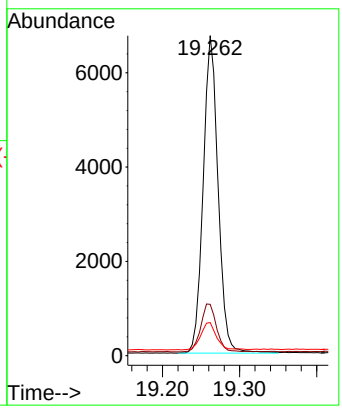





#27
Fluoranthene-d10
Concen: 0.291 ng
RT: 19.262 min Scan# 1
Delta R.T. -0.009 min
Lab File: BN037792.D
Acq: 19 Sep 2025 00:16

Tgt Ion:212 Resp: 905

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 212 | 100 | | |
| 106 | 15.8 | 12.2 | 18.2 |
| 104 | 9.2 | 6.9 | 10.3 |




**Instrument :**
BNA_N
**ClientSampleId :**
PB169693BS

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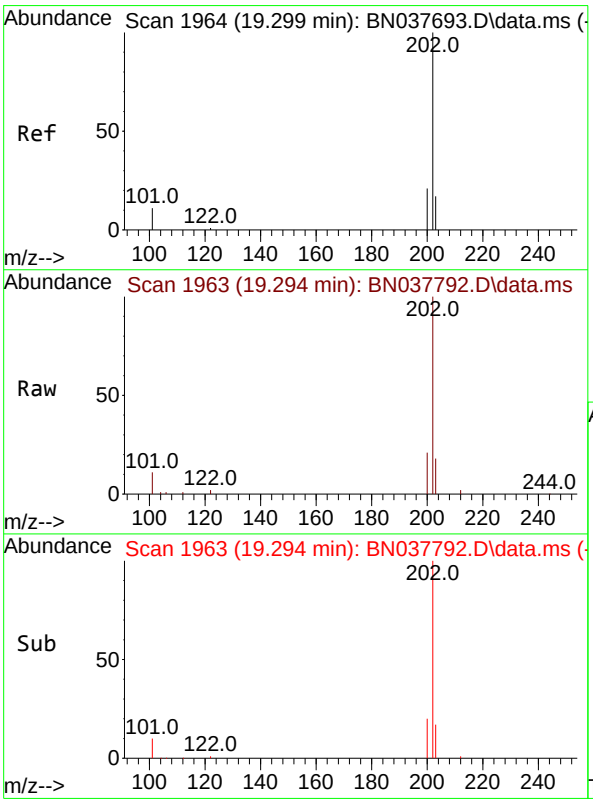
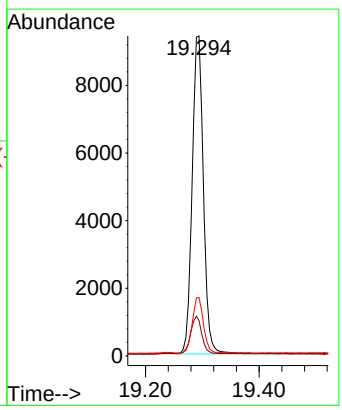
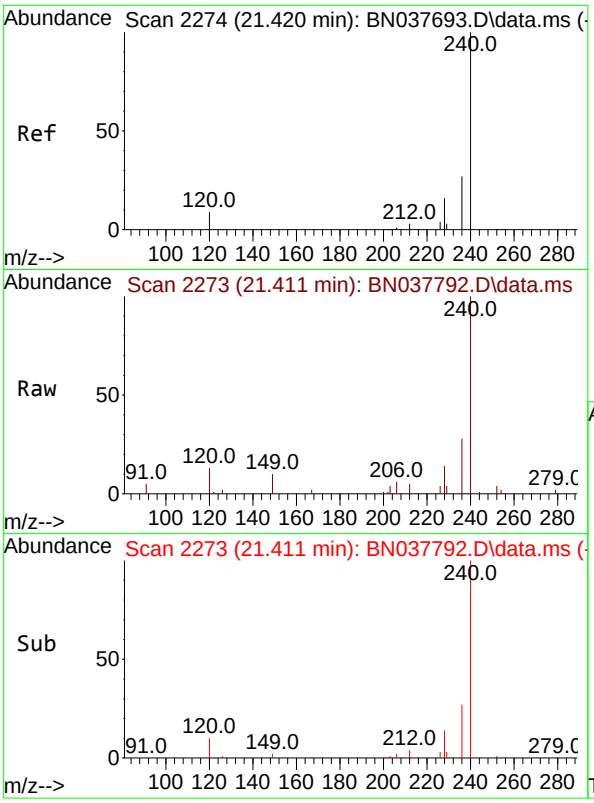



#28
Fluoranthene
Concen: 0.302 ng
RT: 19.294 min Scan# 1963
Delta R.T. -0.005 min
Lab File: BN037792.D
Acq: 19 Sep 2025 00:16

Tgt Ion:202 Resp: 12912

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 202 | 100 | | |
| 101 | 11.8 | 9.3 | 13.9 |
| 203 | 17.3 | 13.7 | 20.5 |






#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.411 min Scan# 2
Delta R.T. -0.009 min
Lab File: BN037792.D
Acq: 19 Sep 2025 00:16

**Instrument :**
BNA_N
**ClientSampleId :**
PB169693BS

Tgt Ion:240 Resp: 1009

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 240 | 100 | | |
| 120 | 12.7 | 9.2 | 13.8 |
| 236 | 28.2 | 22.6 | 33.8 |

**Manual Integrations**
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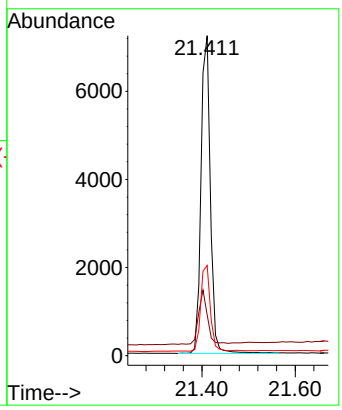
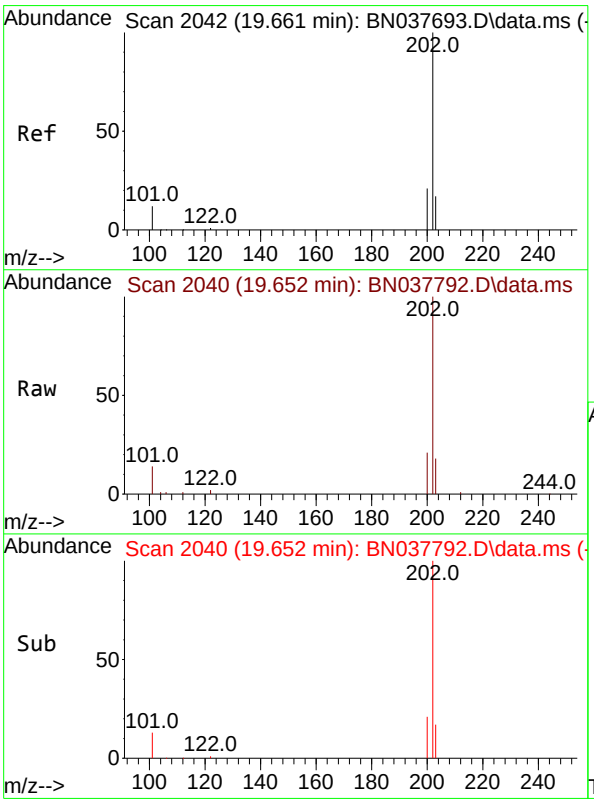
Reviewed By :Rahul Chavli 09/19/2025
Supervised By :mohammad ahmed 09/23/2025

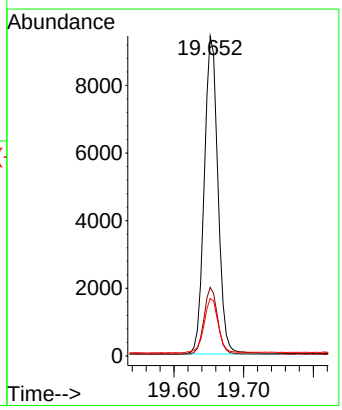


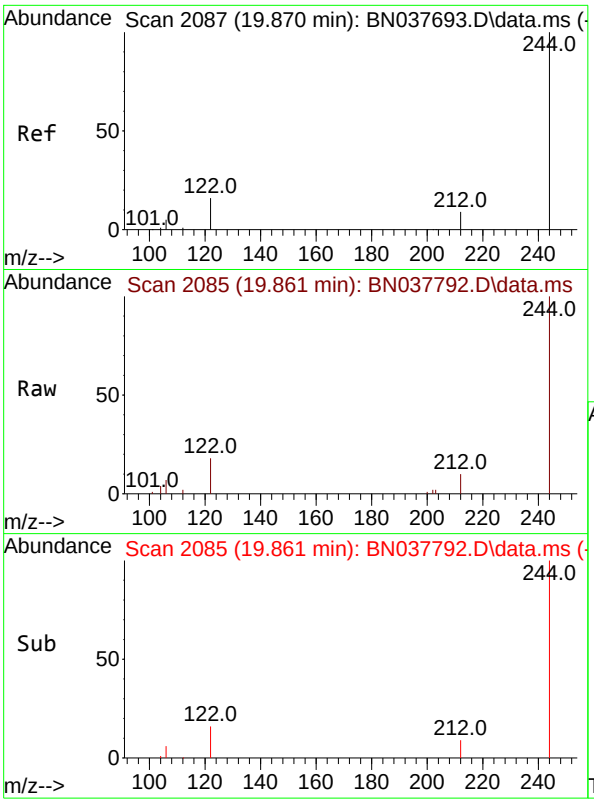




#30
Pyrene
Concen: 0.325 ng
RT: 19.652 min Scan# 2040
Delta R.T. -0.009 min
Lab File: BN037792.D
Acq: 19 Sep 2025 00:16

Tgt Ion:202 Resp: 12854

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 202 | 100 | | |
| 200 | 21.0 | 16.8 | 25.2 |
| 203 | 17.5 | 14.3 | 21.5 |

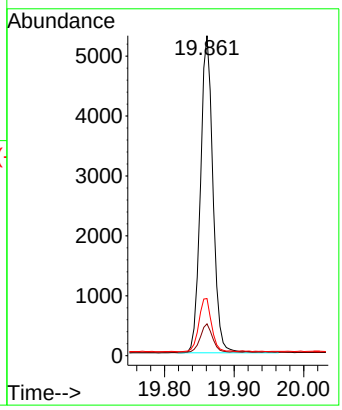





#31
Terphenyl-d14
Concen: 0.322 ng
RT: 19.861 min Scan# 2
Delta R.T. -0.009 min
Lab File: BN037792.D
Acq: 19 Sep 2025 00:16

Tgt Ion:244 Resp: 659

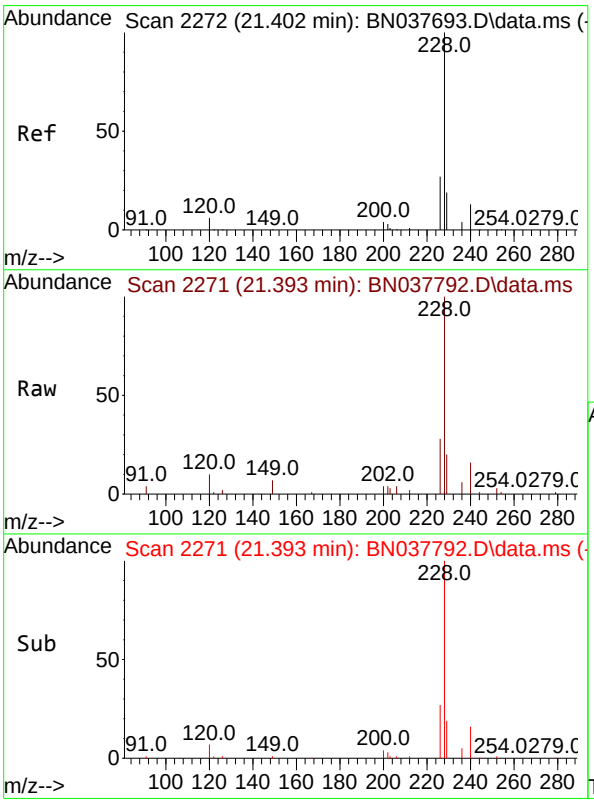
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 244 | 100 | | |
| 212 | 10.0 | 7.5 | 11.3 |
| 122 | 17.8 | 13.2 | 19.8 |




**Instrument :**
BNA_N
**ClientSampleId :**
PB169693BS

**Manual Integrations**
**APPROVED**

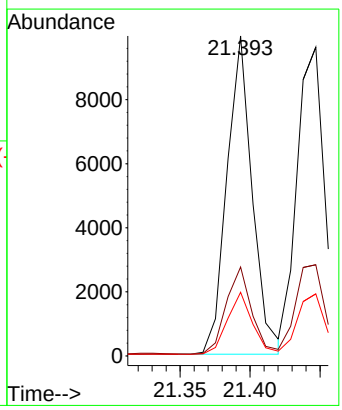
Reviewed By :Rahul Chavli 09/19/2025
Supervised By :mohammad ahmed 09/23/2025

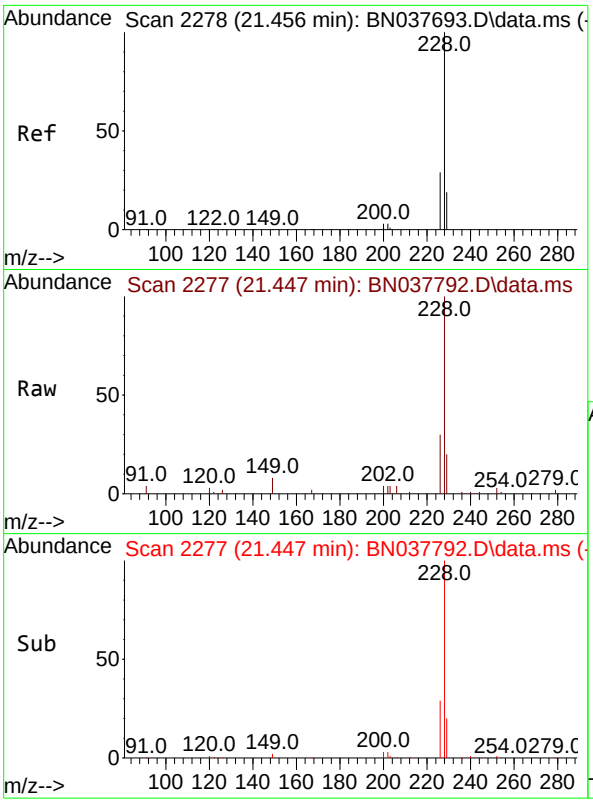



#32
Benzo(a)anthracene
Concen: 0.356 ng
RT: 21.393 min Scan# 2271
Delta R.T. -0.009 min
Lab File: BN037792.D
Acq: 19 Sep 2025 00:16

Tgt Ion:228 Resp: 12540

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 228 | 100 | | |
| 226 | 27.8 | 22.2 | 33.2 |
| 229 | 19.9 | 15.8 | 23.6 |

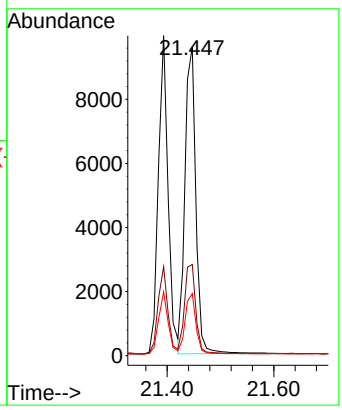





#33
Chrysene
Concen: 0.359 ng
RT: 21.447 min Scan# 2
Delta R.T. -0.009 min
Lab File: BN037792.D
Acq: 19 Sep 2025 00:16

Tgt Ion:228 Resp: 1356

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 228 | 100 | | |
| 226 | 29.5 | 23.5 | 35.3 |
| 229 | 20.1 | 15.9 | 23.9 |




**Instrument :**
BNA_N
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PB169693BS

**Manual Integrations**
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Reviewed By :Rahul Chavli 09/19/2025
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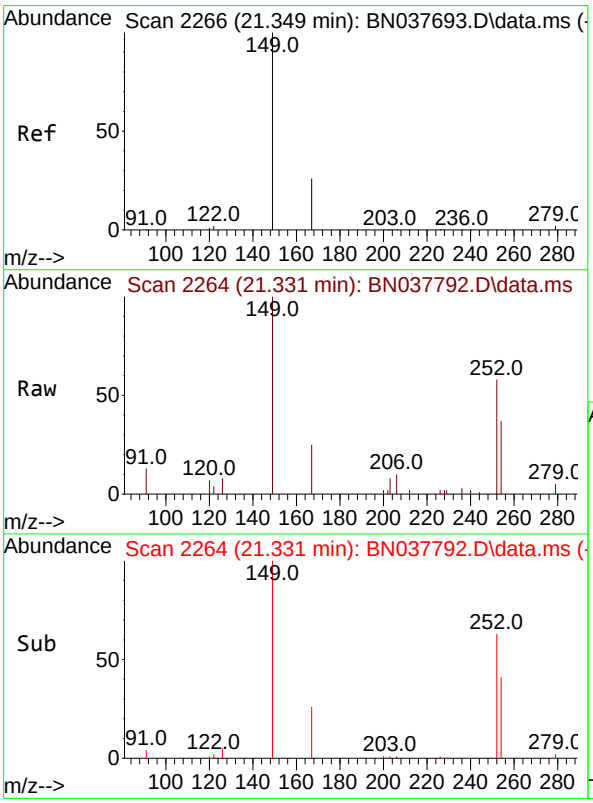
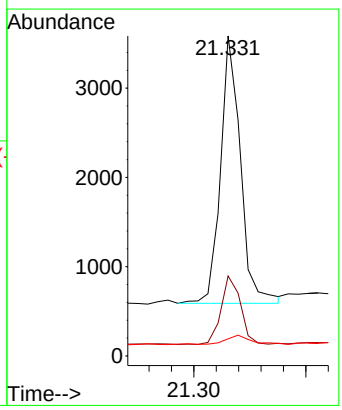
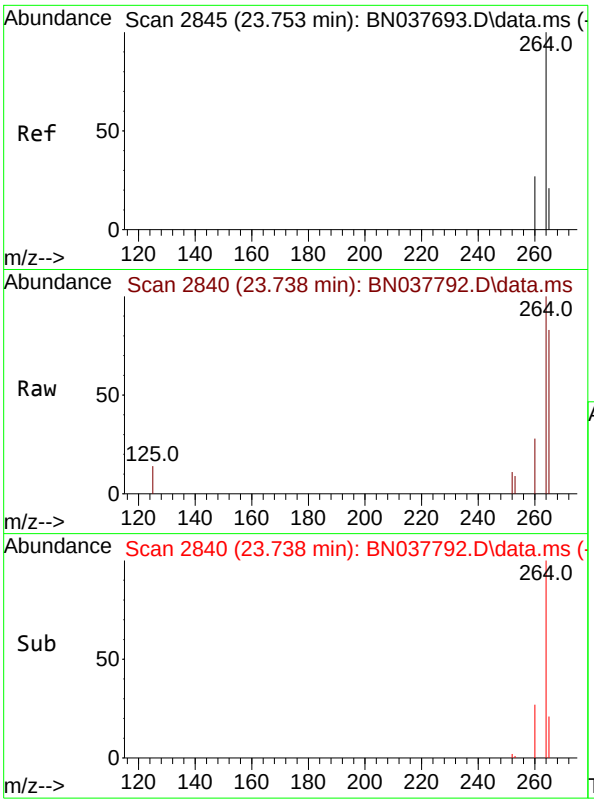



#34
Bis(2-ethylhexyl)phthalate
Concen: 0.355 ng
RT: 21.331 min Scan# 2264
Delta R.T. -0.018 min
Lab File: BN037792.D
Acq: 19 Sep 2025 00:16

Tgt Ion:149 Resp: 3708

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 149 | 100 | | |
| 167 | 25.0 | 20.8 | 31.2 |
| 279 | 4.3 | 3.3 | 4.9 |

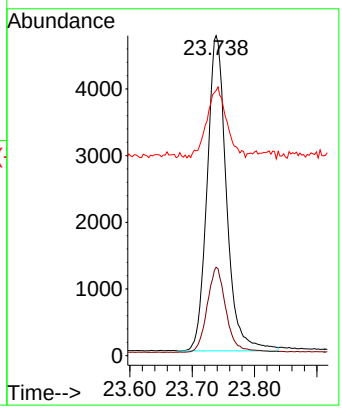





#35
Perylene-d12
Concen: 0.400 ng
RT: 23.738 min Scan# 2
Delta R.T. -0.015 min
Lab File: BN037792.D
Acq: 19 Sep 2025 00:16

Tgt Ion:264 Resp: 1020

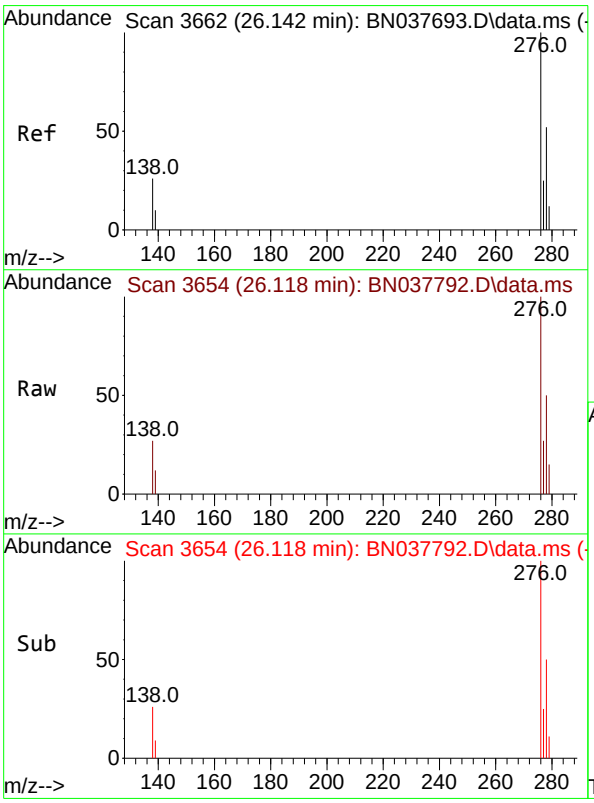
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 264 | 100 | | |
| 260 | 27.6 | 21.8 | 32.8 |
| 265 | 82.9 | 39.4 | 59.2 |




**Instrument :**
BNA_N
**ClientSampleId :**
PB169693BS

**Manual Integrations**
**APPROVED**

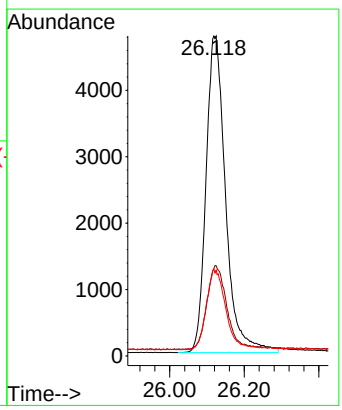
Reviewed By :Rahul Chavli 09/19/2025
Supervised By :mohammad ahmed 09/23/2025

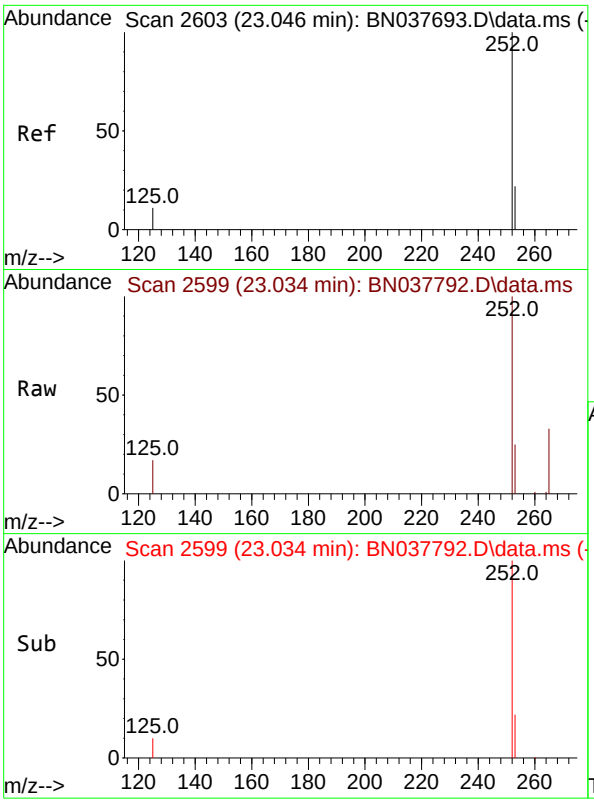



#36
Indeno(1,2,3-cd)pyrene
Concen: 0.407 ng
RT: 26.118 min Scan# 3654
Delta R.T. -0.024 min
Lab File: BN037792.D
Acq: 19 Sep 2025 00:16

Tgt Ion:276 Resp: 17423

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 276 | 100 | | |
| 138 | 27.0 | 21.9 | 32.9 |
| 277 | 25.2 | 20.1 | 30.1 |

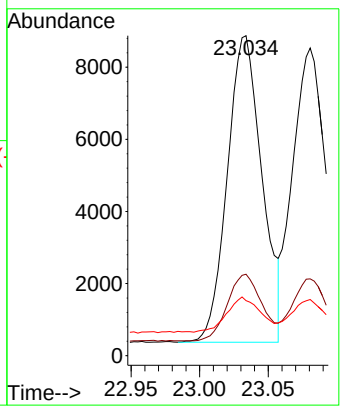





#37
Benzo(b)fluoranthene
Concen: 0.372 ng
RT: 23.034 min Scan# 2
Delta R.T. -0.012 min
Lab File: BN037792.D
Acq: 19 Sep 2025 00:16

Tgt Ion:252 Resp: 1495

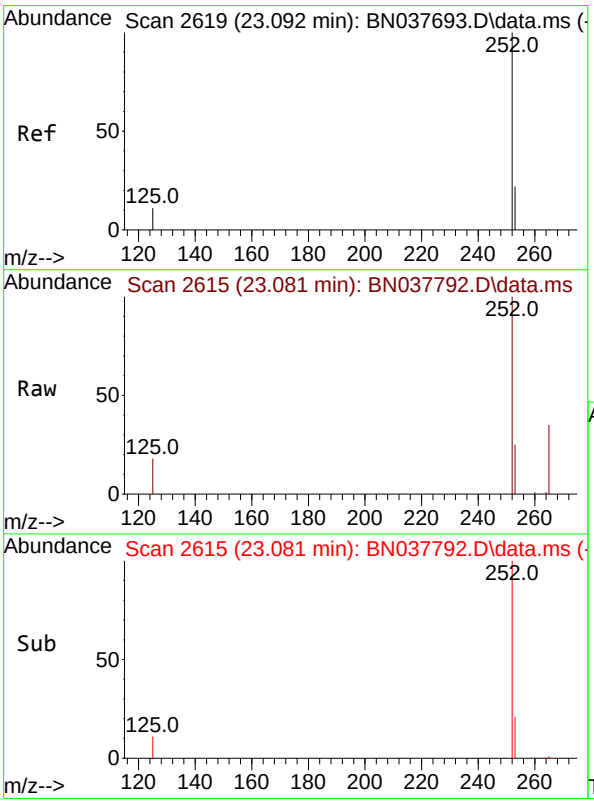
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 25.5 | 19.4 | 29.2 |
| 125 | 17.2 | 11.2 | 16.8# |




**Instrument :**
BNA_N
**ClientSampleId :**
PB169693BS

**Manual Integrations**
**APPROVED**

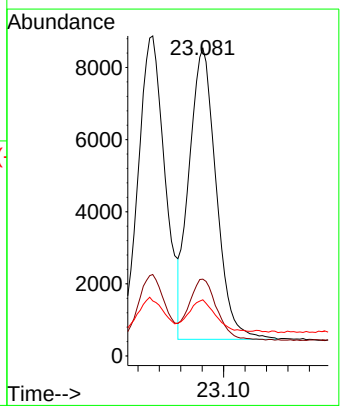
Reviewed By :Rahul Chavli 09/19/2025
Supervised By :mohammad ahmed 09/23/2025

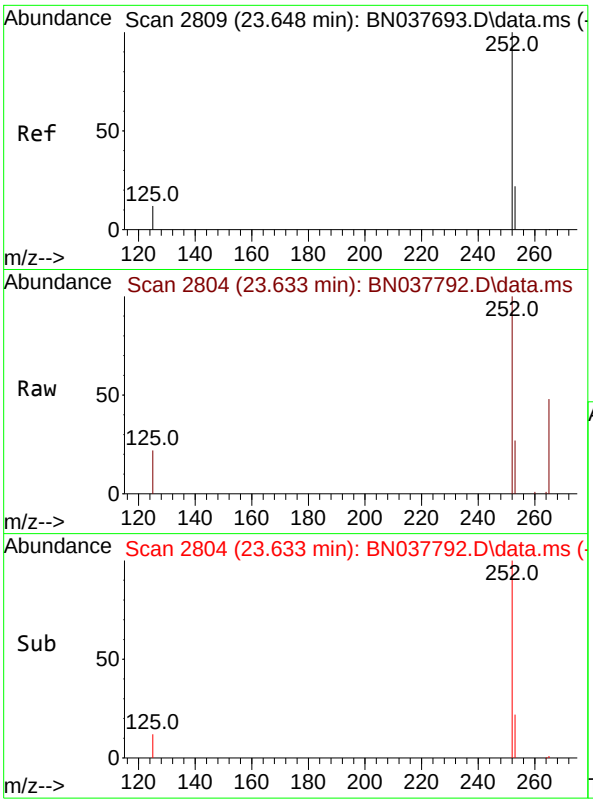



#38
Benzo(k)fluoranthene
Concen: 0.348 ng m
RT: 23.081 min Scan# 2615
Delta R.T. -0.012 min
Lab File: BN037792.D
Acq: 19 Sep 2025 00:16

Tgt Ion:252 Resp: 14241

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 25.0 | 19.4 | 29.0 |
| 125 | 18.3 | 11.6 | 17.4# |

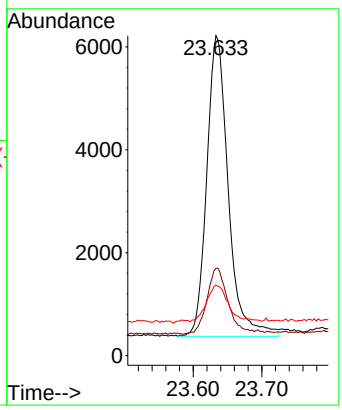





#39
Benzo(a)pyrene
Concen: 0.395 ng
RT: 23.633 min Scan# 2
Delta R.T. -0.015 min
Lab File: BN037792.D
Acq: 19 Sep 2025 00:16

Tgt Ion:252 Resp: 1271

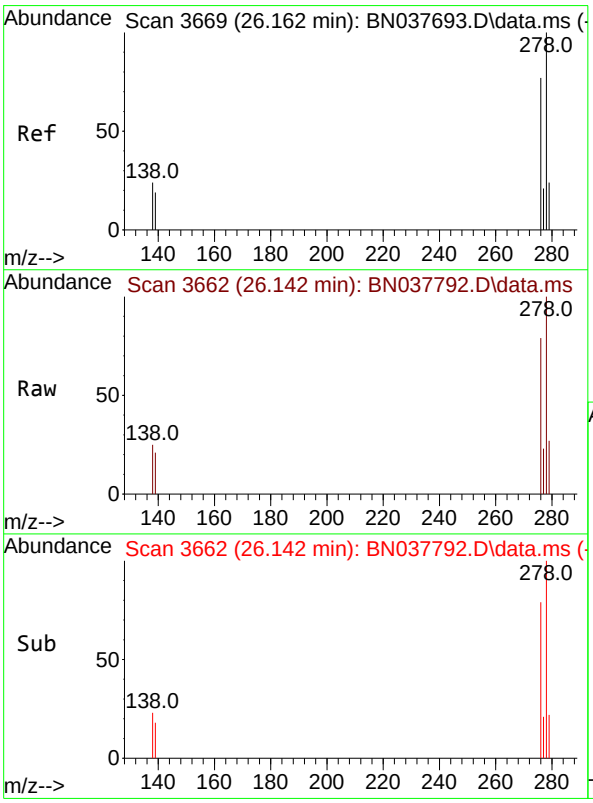
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 27.3 | 20.8 | 31.2 |
| 125 | 22.1 | 13.9 | 20.9 |




**Instrument :**
BNA_N
**ClientSampleId :**
PB169693BS

**Manual Integrations**
**APPROVED**

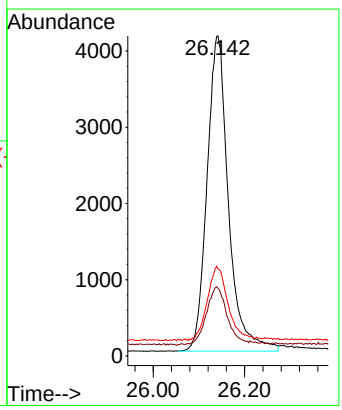
Reviewed By :Rahul Chavli 09/19/2025
Supervised By :mohammad ahmed 09/23/2025

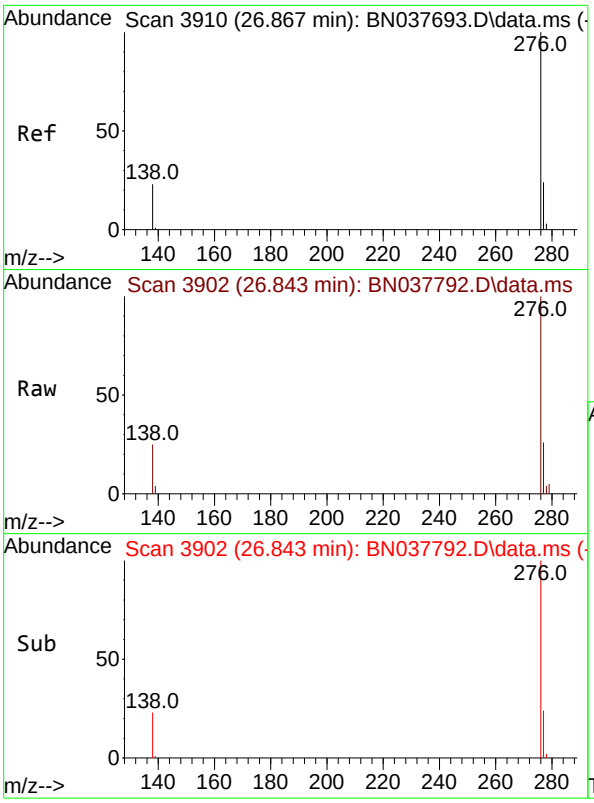



#40
Dibenzo(a,h)anthracene
Concen: 0.394 ng
RT: 26.142 min Scan# 3662
Delta R.T. -0.021 min
Lab File: BN037792.D
Acq: 19 Sep 2025 00:16

Tgt Ion:278 Resp: 13475

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 278 | 100 | | |
| 139 | 21.2 | 17.8 | 26.6 |
| 279 | 27.2 | 22.0 | 33.0 |

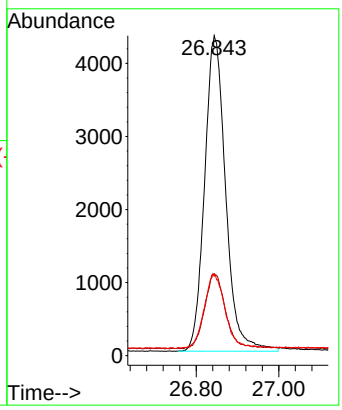





#41
Benzo(g,h,i)perylene
Concen: 0.398 ng
RT: 26.843 min Scan# 3
Delta R.T. -0.024 min
Lab File: BN037792.D
Acq: 19 Sep 2025 00:16

Tgt Ion:276 Resp: 1527

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 276 | 100 | | |
| 277 | 25.6 | 20.6 | 31.0 |
| 138 | 24.8 | 20.2 | 30.2 |




**Instrument :**
BNA_N
**ClientSampleId :**
PB169693BS

**Manual Integrations**
**APPROVED**

Reviewed By :Rahul Chavli 09/19/2025
Supervised By :mohammad ahmed 09/23/2025

Raw Data: **BN037743.D**

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

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | AECOM Technical Services, Inc. | Date Collected: | 09/09/25 |
| Project: | NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258 | Date Received: | 09/12/25 |
| Client Sample ID: | MW203D2-20250909MS | SDG No.: | Q3095 |
| Lab Sample ID: | Q3095-06MS | Matrix: | Water |
| Analytical Method: | SW8270ESIM | % Solid: | 0 |
| Sample Wt/Vol: | 1000 Units: mL | Final Vol: | 1000 uL |
| Soil Aliquot Vol: | uL | Test: | SVOC-SIMGroup1 |
| Extraction Type : | Decanted : N | Level : | LOW |
| Injection Volume : | GPC Factor : 1.0 | GPC Cleanup : | N PH : |
| Prep Method : | | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| BN037743.D | 1 | 09/15/25 10:15 | 09/17/25 13:14 | PB169692 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOD | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | | |
| 123-91-1 | 1,4-Dioxane | 0.97 | | 0.070 | 0.20 | 0.20 | ug/L |
| **SURROGATES** | | | | | | | |
| 7297-45-2 | 2-Methylnaphthalene-d10 | 0.29 | | 30 - 150 | | 72% | SPK: 0.4 |
| 93951-69-0 | Fluoranthene-d10 | 0.33 | | 30 - 150 | | 83% | SPK: 0.4 |
| 4165-60-0 | Nitrobenzene-d5 | 0.30 | | 55 - 111 | | 75% | SPK: 0.4 |
| 321-60-8 | 2-Fluorobiphenyl | 0.32 | | 53 - 106 | | 79% | SPK: 0.4 |
| 1718-51-0 | Terphenyl-d14 | 0.40 | | 58 - 132 | | 99% | SPK: 0.4 |
| **INTERNAL STANDARDS** | | | | | | | |
| 3855-82-1 | 1,4-Dichlorobenzene-d4 | 6850 | 7.84 | | | | |
| 1146-65-2 | Naphthalene-d8 | 19000 | 10.637 | | | | |
| 15067-26-2 | Acenaphthene-d10 | 8820 | 14.494 | | | | |
| 1517-22-2 | Phenanthrene-d10 | 15300 | 17.235 | | | | |
| 1719-03-5 | Chrysene-d12 | 13100 | 21.42 | | | | |
| 1520-96-3 | Perylene-d12 | 12800 | 23.75 | | | | |

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\BN091725\
Data File : BN037743.D
Acq On : 17 Sep 2025 13:14
Operator : RC/JU
Sample : Q3095-06MS
Misc :
ALS Vial : 5 Sample Multiplier: 1

**Instrument :**
BNA_N
**ClientSampleId :**
MW203D2-20250909MS

Quant Time: Sep 17 13:42:11 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN091125.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Sep 11 14:20:01 2025
Response via : Initial Calibration

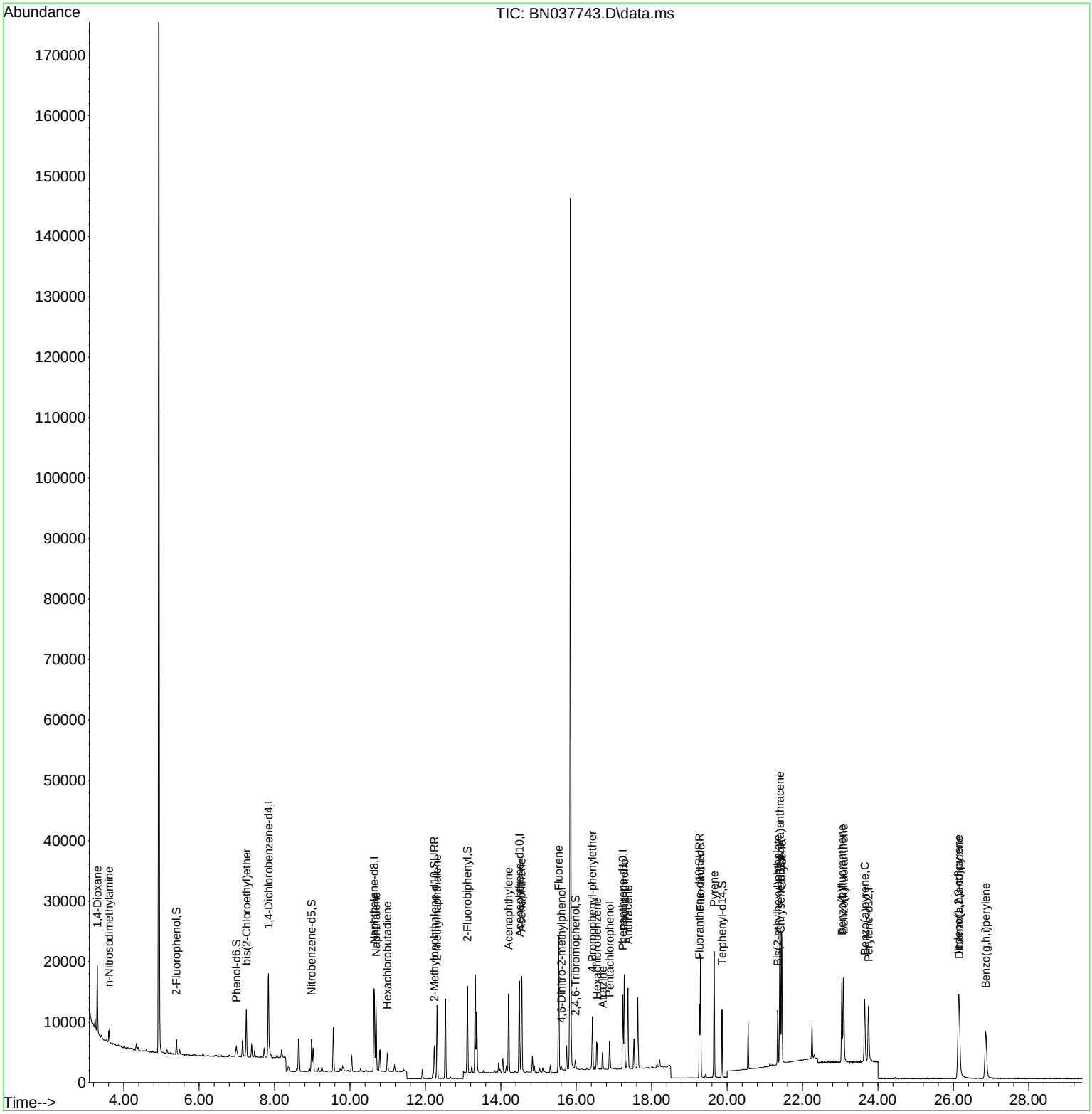
| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| Internal Standards | | | | | | | |
| 1) 1,4-Dichlorobenzene-d4 | 7.840 | 152 | 6853 | 0.400 | ng | | 0.00 |
| 7) Naphthalene-d8 | 10.637 | 136 | 18950 | 0.400 | ng | | -0.01 |
| 13) Acenaphthene-d10 | 14.494 | 164 | 8815 | 0.400 | ng | | 0.00 |
| 19) Phenanthrene-d10 | 17.235 | 188 | 15289 | 0.400 | ng | # | 0.00 |
| 29) Chrysene-d12 | 21.420 | 240 | 13059 | 0.400 | ng | | 0.00 |
| 35) Perylene-d12 | 23.750 | 264 | 12757 | 0.400 | ng | | 0.00 |
| System Monitoring Compounds | | | | | | | |
| 4) 2-Fluorophenol | 5.399 | 112 | 1957 | 0.124 | ng | | 0.00 |
| 5) Phenol-d6 | 6.988 | 99 | 1524 | 0.075 | ng | | 0.00 |
| 8) Nitrobenzene-d5 | 8.982 | 82 | 4126 | 0.298 | ng | | -0.01 |
| 11) 2-Methylnaphthalene-d10 | 12.238 | 152 | 7246 | 0.289 | ng | | 0.00 |
| 14) 2,4,6-Tribromophenol | 15.982 | 330 | 893 | 0.388 | ng | | 0.00 |
| 15) 2-Fluorobiphenyl | 13.115 | 172 | 11665 | 0.316 | ng | | 0.00 |
| 27) Fluoranthene-d10 | 19.266 | 212 | 12832 | 0.334 | ng | | 0.00 |
| 31) Terphenyl-d14 | 19.866 | 244 | 10504 | 0.396 | ng | | 0.00 |
| Target Compounds | | | | | | | Qvalue |
| 2) 1,4-Dioxane | 3.304 | 88 | 6956 | 0.974 | ng | | 96 |
| 3) n-Nitrosodimethylamine | 3.608 | 42 | 1104 | 0.118 | ng | # | 82 |
| 6) bis(2-Chloroethyl)ether | 7.255 | 93 | 5688 | 0.312 | ng | | 98 |
| 9) Naphthalene | 10.690 | 128 | 15015 | 0.290 | ng | | 100 |
| 10) Hexachlorobutadiene | 10.989 | 225 | 2320 | 0.248 | ng | # | 100 |
| 12) 2-Methylnaphthalene | 12.309 | 142 | 8655 | 0.270 | ng | | 100 |
| 16) Acenaphthylene | 14.206 | 152 | 13728 | 0.340 | ng | | 100 |
| 17) Acenaphthene | 14.548 | 154 | 8639 | 0.316 | ng | | 99 |
| 18) Fluorene | 15.535 | 166 | 10553 | 0.319 | ng | | 98 |
| 20) 4,6-Dinitro-2-methylph... | 15.609 | 198 | 499 | 0.352 | ng | | 91 |
| 21) 4-Bromophenyl-phenylether | 16.429 | 248 | 3460 | 0.347 | ng | # | 76 |
| 22) Hexachlorobenzene | 16.553 | 284 | 4115 | 0.359 | ng | | 96 |
| 23) Atrazine | 16.702 | 200 | 2391 | 0.377 | ng | | 98 |
| 24) Pentachlorophenol | 16.888 | 266 | 2467 | 0.741 | ng | | 97 |
| 25) Phenanthrene | 17.273 | 178 | 17307 | 0.360 | ng | | 100 |
| 26) Anthracene | 17.372 | 178 | 15375 | 0.361 | ng | | 100 |
| 28) Fluoranthene | 19.294 | 202 | 18462 | 0.350 | ng | | 99 |
| 30) Pyrene | 19.657 | 202 | 18552 | 0.363 | ng | | 100 |
| 32) Benzo(a)anthracene | 21.402 | 228 | 17427 | 0.383 | ng | | 99 |
| 33) Chrysene | 21.447 | 228 | 18053 | 0.370 | ng | | 98 |
| 34) Bis(2-ethylhexyl)phtha... | 21.339 | 149 | 8669 | 0.642 | ng | | 100 |
| 36) Indeno(1,2,3-cd)pyrene | 26.136 | 276 | 20862 | 0.389 | ng | | 98 |
| 37) Benzo(b)fluoranthene | 23.046 | 252 | 18402 | 0.366 | ng | | 99 |
| 38) Benzo(k)fluoranthene | 23.092 | 252 | 18793 | 0.367 | ng | | 99 |
| 39) Benzo(a)pyrene | 23.648 | 252 | 16200 | 0.403 | ng | | 99 |
| 40) Dibenzo(a,h)anthracene | 26.156 | 278 | 16551 | 0.387 | ng | | 97 |
| 41) Benzo(g,h,i)perylene | 26.858 | 276 | 17872 | 0.372 | ng | | 98 |

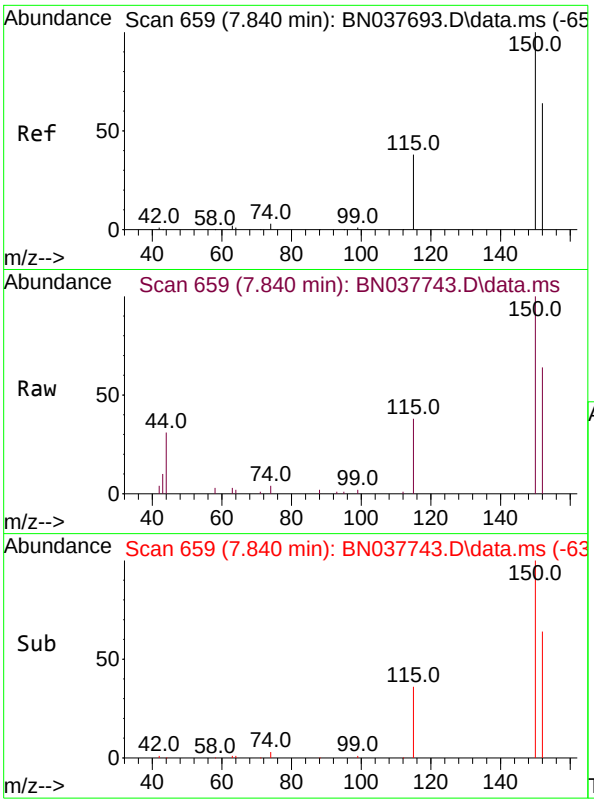
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN091725\
Data File : BN037743.D
Acq On : 17 Sep 2025 13:14
Operator : RC/JU
Sample : Q3095-06MS
Misc :
ALS Vial : 5 Sample Multiplier: 1

**Instrument :**
BNA_N
**ClientSampleId :**
MW203D2-20250909MS

Quant Time: Sep 17 13:42:11 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN091125.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Sep 11 14:20:01 2025
Response via : Initial Calibration



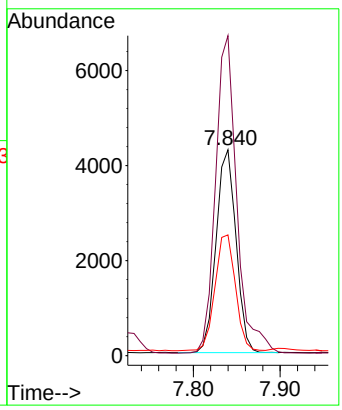


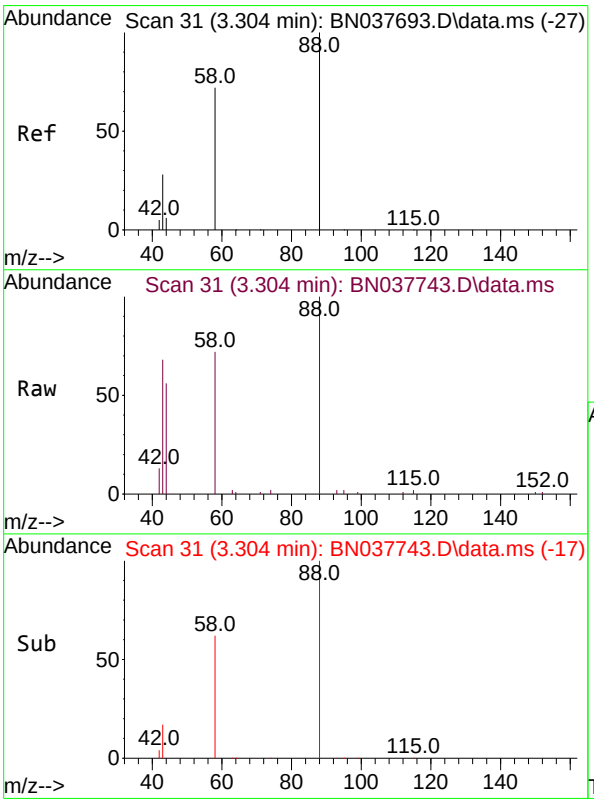

#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.840 min Scan# 6
Delta R.T. -0.000 min
Lab File: BN037743.D
Acq: 17 Sep 2025 13:14

**Instrument :**
BNA_N
**ClientSampleId :**
MW203D2-20250909MS

Tgt Ion:152 Resp: 6853

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 150 | 155.4 | 124.5 | 186.7 |
| 115 | 58.6 | 49.2 | 73.8 |

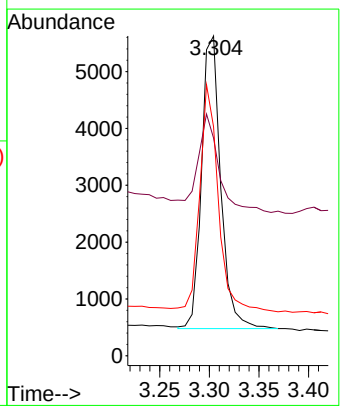


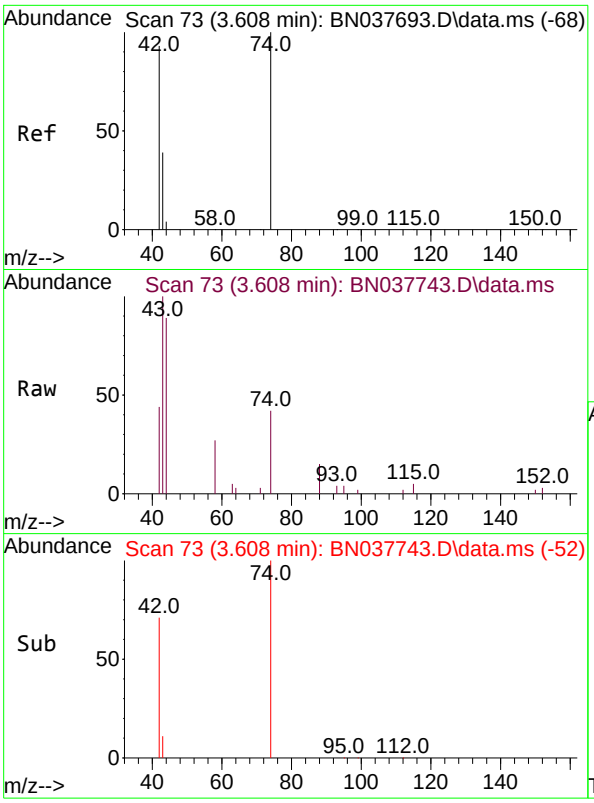




#2
1,4-Dioxane
Concen: 0.974 ng
RT: 3.304 min Scan# 31
Delta R.T. -0.000 min
Lab File: BN037743.D
Acq: 17 Sep 2025 13:14

Tgt Ion: 88 Resp: 6956

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 88 | 100 | | |
| 43 | 36.8 | 26.8 | 40.2 |
| 58 | 75.0 | 61.9 | 92.9 |



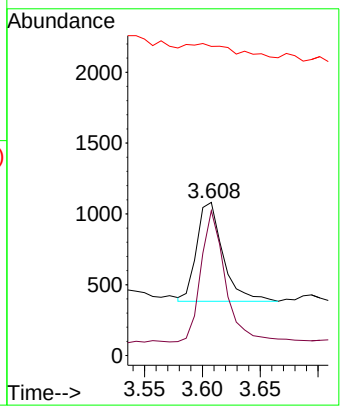


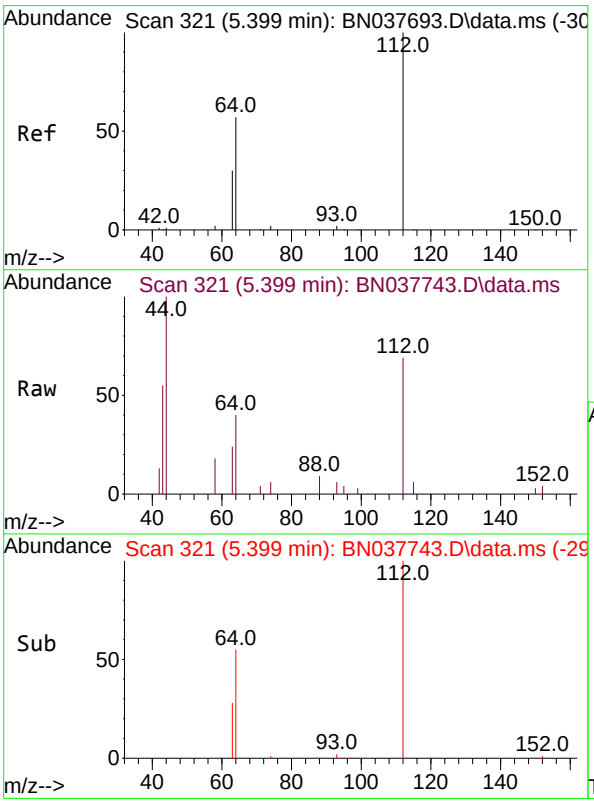

#3
n-Nitrosodimethylamine
Concen: 0.118 ng
RT: 3.608 min Scan# 7
Delta R.T. -0.000 min
Lab File: BN037743.D
Acq: 17 Sep 2025 13:14

**Instrument :**
BNA_N
**ClientSampleId :**
MW203D2-20250909MS

Tgt Ion: 42 Resp: 1104

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 42 | 100 | | |
| 74 | 124.7 | 86.0 | 129.0 |
| 44 | 0.0 | 8.4 | 12.6# |

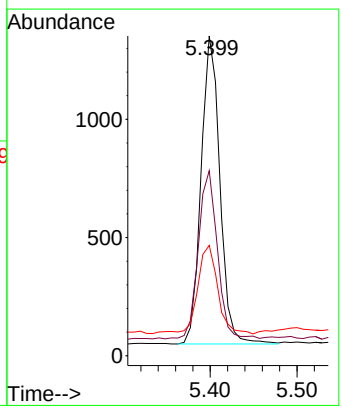


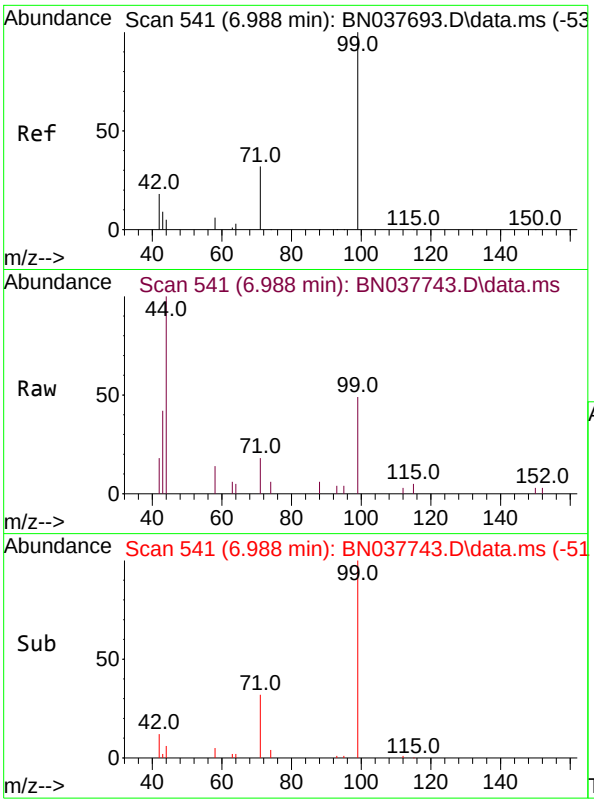




#4
2-Fluorophenol
Concen: 0.124 ng
RT: 5.399 min Scan# 321
Delta R.T. -0.000 min
Lab File: BN037743.D
Acq: 17 Sep 2025 13:14

Tgt Ion:112 Resp: 1957

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 112 | 100 | | |
| 64 | 55.1 | 44.9 | 67.3 |
| 63 | 30.7 | 24.7 | 37.1 |



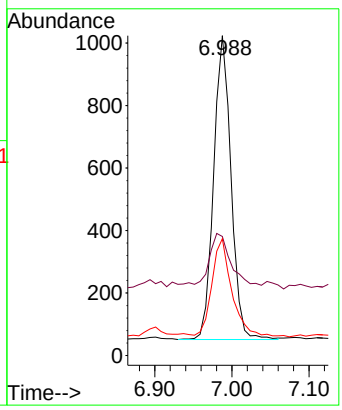


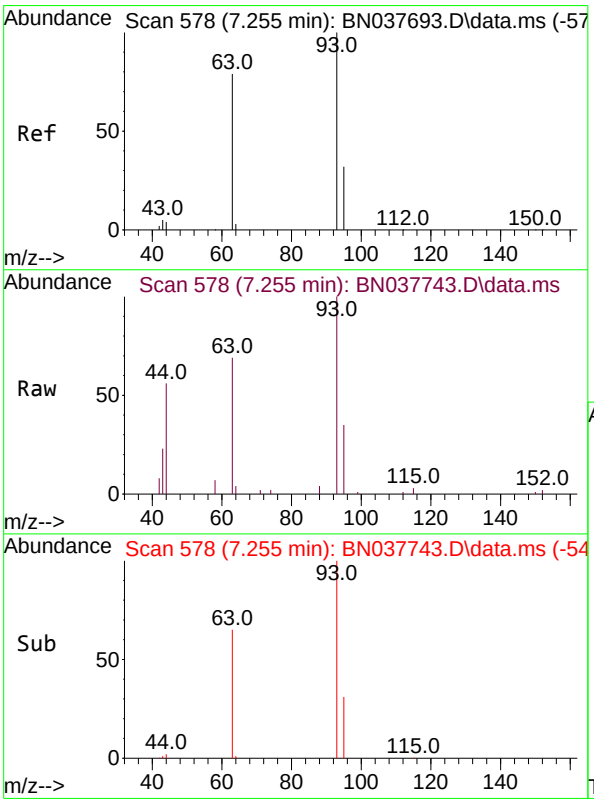

#5
Phenol-d6
Concen: 0.075 ng
RT: 6.988 min Scan# 54
Delta R.T. -0.000 min
Lab File: BN037743.D
Acq: 17 Sep 2025 13:14

**Instrument :**
BNA_N
**ClientSampleId :**
MW203D2-20250909MS

Tgt Ion: 99 Resp: 1524

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 99 | 100 | | |
| 42 | 20.7 | 16.6 | 24.8 |
| 71 | 37.3 | 26.7 | 40.1 |

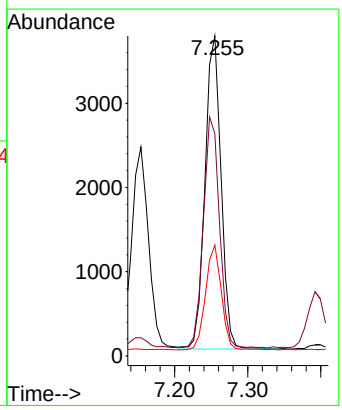


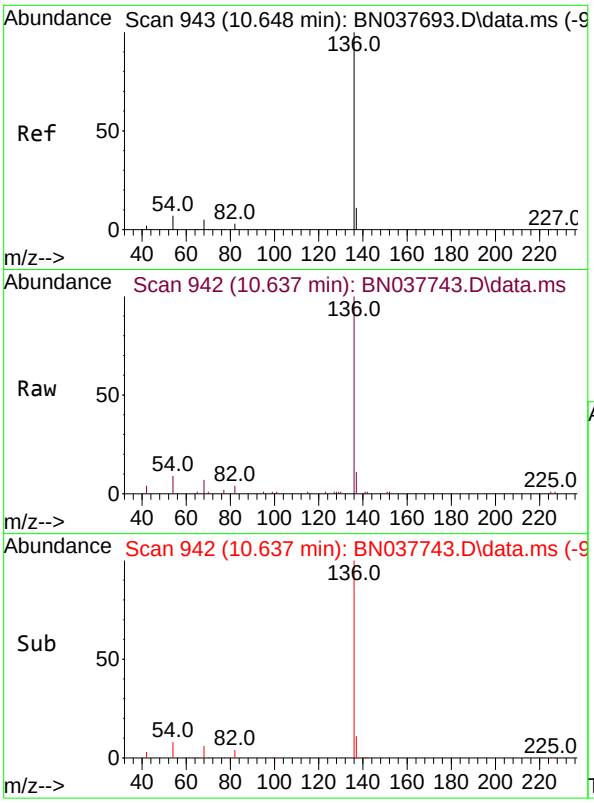




#6
bis(2-Chloroethyl)ether
Concen: 0.312 ng
RT: 7.255 min Scan# 578
Delta R.T. -0.000 min
Lab File: BN037743.D
Acq: 17 Sep 2025 13:14

Tgt Ion: 93 Resp: 5688

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 93 | 100 | | |
| 63 | 74.0 | 60.6 | 90.8 |
| 95 | 32.9 | 26.0 | 39.0 |



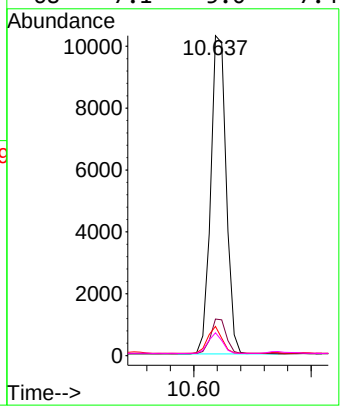


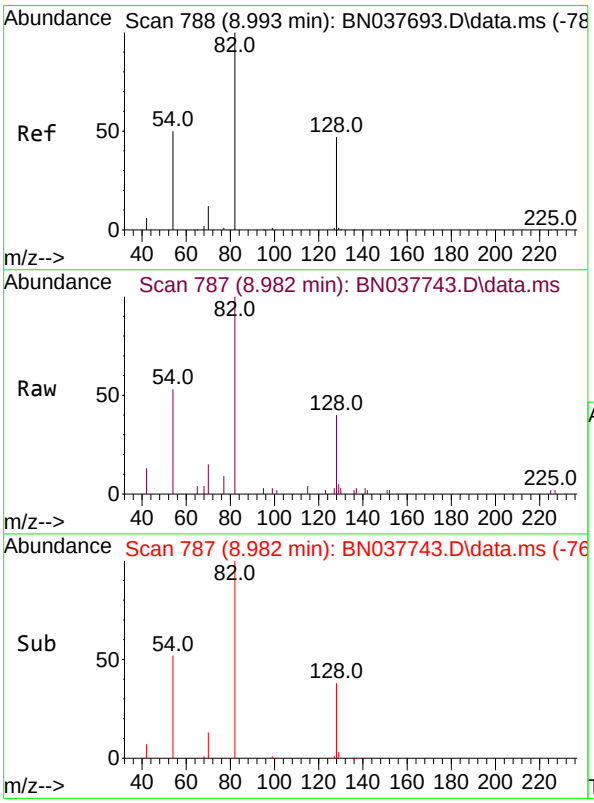

#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.637 min Scan# 94
Delta R.T. -0.011 min
Lab File: BN037743.D
Acq: 17 Sep 2025 13:14

**Instrument :**
BNA_N
**ClientSampleId :**
MW203D2-20250909MS

Tgt Ion:136 Resp: 18950

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 136 | 100 | | |
| 137 | 11.4 | 9.1 | 13.7 |
| 54 | 9.2 | 6.3 | 9.5 |
| 68 | 7.1 | 5.0 | 7.4 |

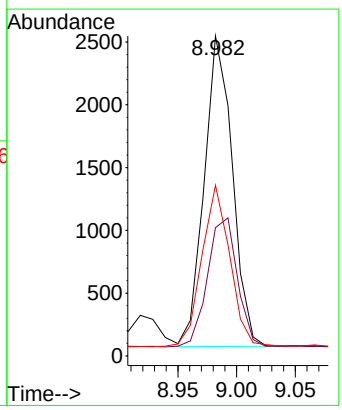


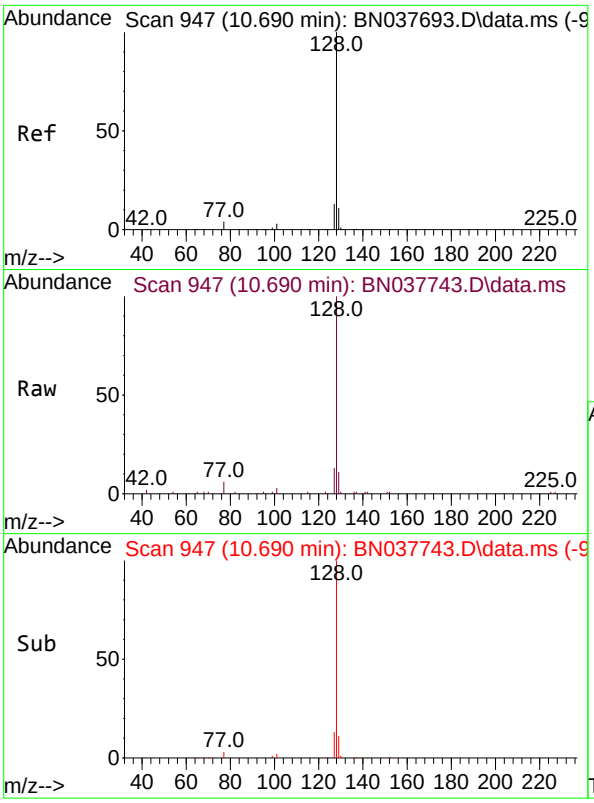




#8
Nitrobenzene-d5
Concen: 0.298 ng
RT: 8.982 min Scan# 787
Delta R.T. -0.011 min
Lab File: BN037743.D
Acq: 17 Sep 2025 13:14

Tgt Ion: 82 Resp: 4126

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 82 | 100 | | |
| 128 | 40.1 | 38.3 | 57.5 |
| 54 | 53.4 | 41.4 | 62.2 |



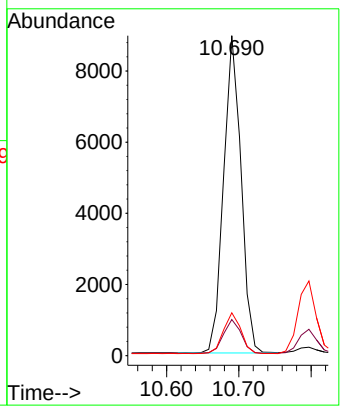


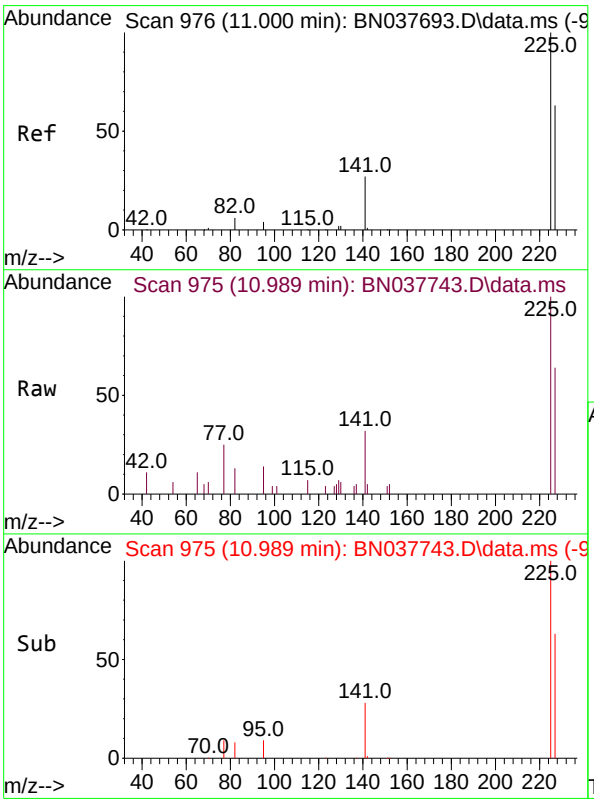

#9
Naphthalene
Concen: 0.290 ng
RT: 10.690 min Scan# 94
Delta R.T. -0.000 min
Lab File: BN037743.D
Acq: 17 Sep 2025 13:14

**Instrument :**
BNA_N
**ClientSampleId :**
MW203D2-20250909MS

Tgt Ion:128 Resp: 15015

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 128 | 100 | | |
| 129 | 11.3 | 9.1 | 13.7 |
| 127 | 13.4 | 10.9 | 16.3 |

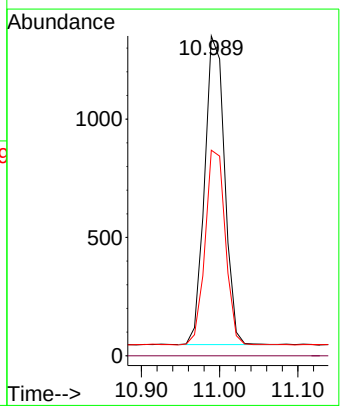


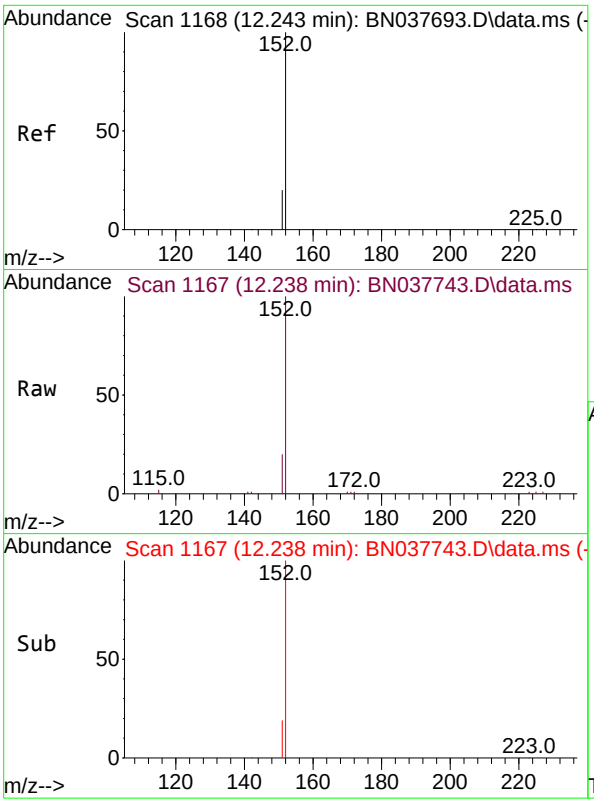




#10
Hexachlorobutadiene
Concen: 0.248 ng
RT: 10.989 min Scan# 975
Delta R.T. -0.011 min
Lab File: BN037743.D
Acq: 17 Sep 2025 13:14

Tgt Ion:225 Resp: 2320

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 225 | 100 | | |
| 223 | 0.0 | 0.0 | 0.0 |
| 227 | 63.7 | 50.9 | 76.3 |



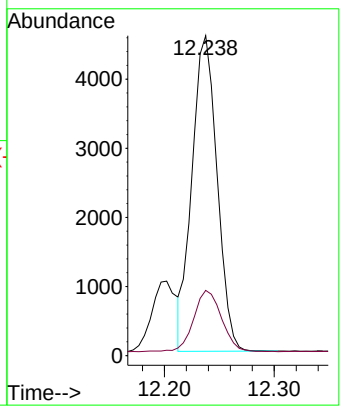


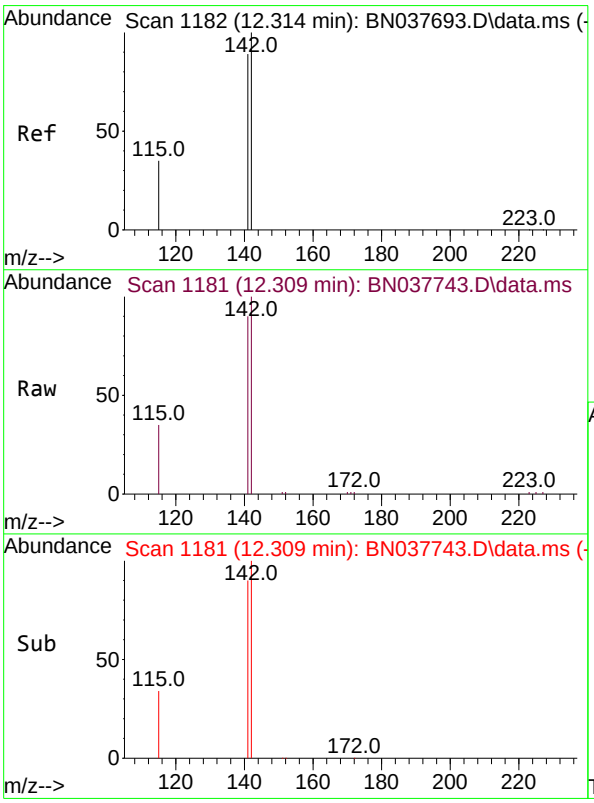

#11
2-Methylnaphthalene-d10
Concen: 0.289 ng
RT: 12.238 min Scan# 11
Delta R.T. -0.005 min
Lab File: BN037743.D
Acq: 17 Sep 2025 13:14

**Instrument :**
BNA_N
**ClientSampleId :**
MW203D2-20250909MS

Tgt Ion:152 Resp: 7246

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 151 | 21.6 | 17.0 | 25.6 |

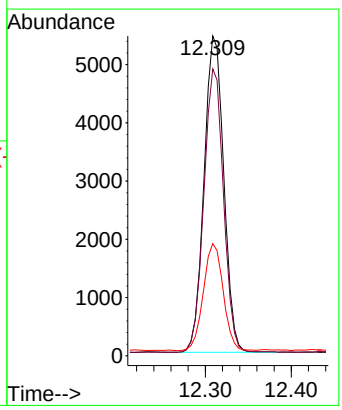


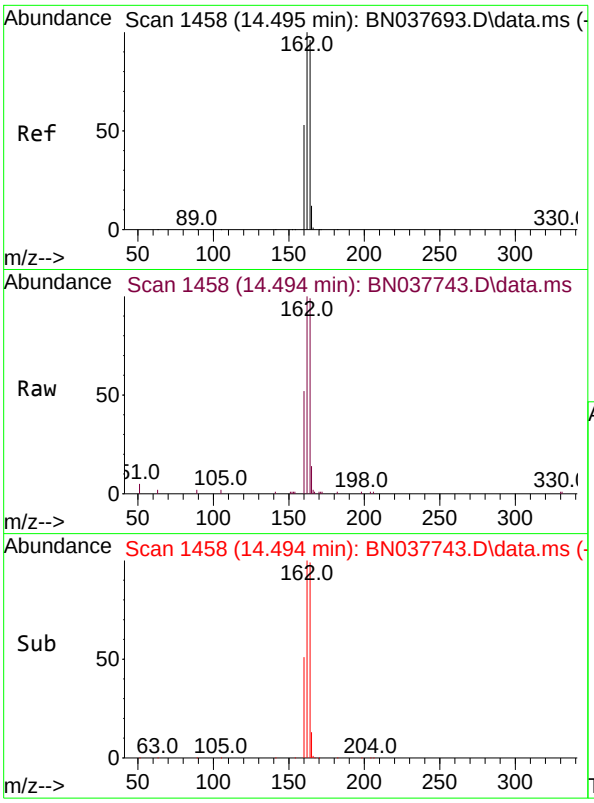




#12
2-Methylnaphthalene
Concen: 0.270 ng
RT: 12.309 min Scan# 1181
Delta R.T. -0.005 min
Lab File: BN037743.D
Acq: 17 Sep 2025 13:14

Tgt Ion:142 Resp: 8655

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 142 | 100 | | |
| 141 | 89.7 | 71.6 | 107.4 |
| 115 | 35.1 | 28.6 | 43.0 |



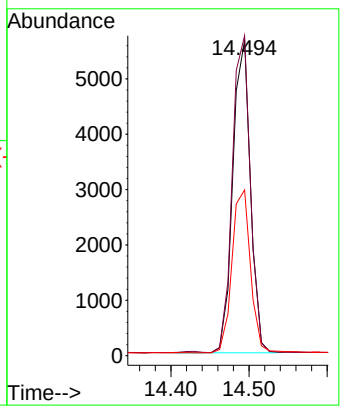


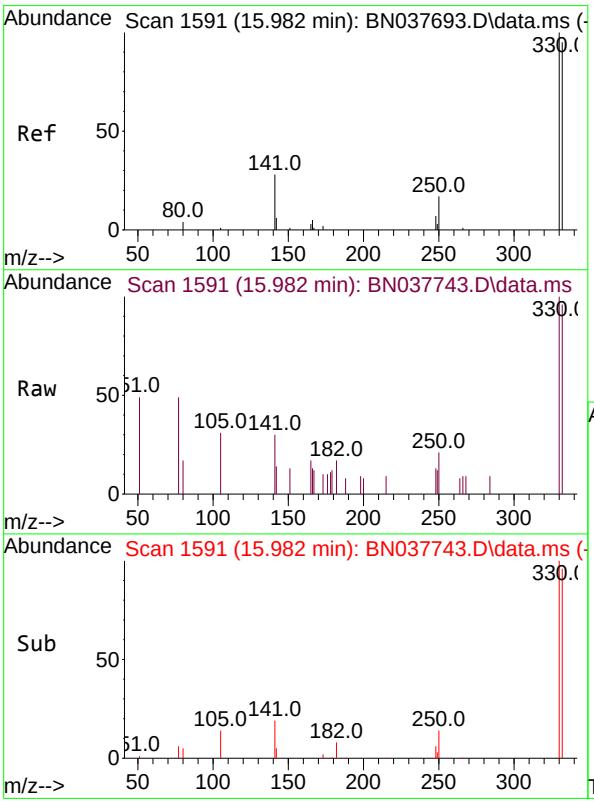

#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.494 min Scan# 14
Delta R.T. -0.000 min
Lab File: BN037743.D
Acq: 17 Sep 2025 13:14

**Instrument :**
BNA_N
**ClientSampleId :**
MW203D2-20250909MS

Tgt Ion:164 Resp: 8815

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 164 | 100 | | |
| 162 | 101.4 | 83.1 | 124.7 |
| 160 | 52.5 | 44.3 | 66.5 |

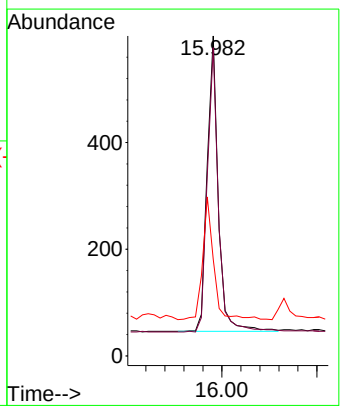


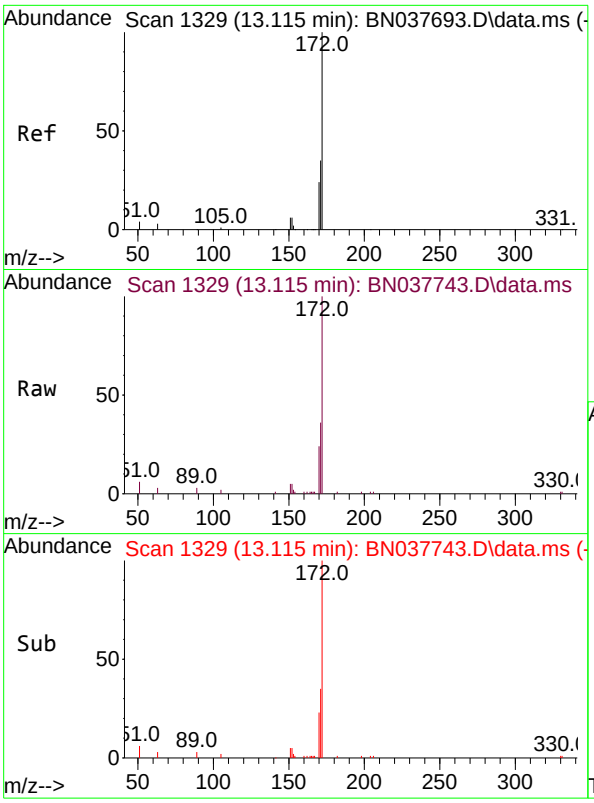




#14
2,4,6-Tribromophenol
Concen: 0.388 ng
RT: 15.982 min Scan# 1591
Delta R.T. -0.000 min
Lab File: BN037743.D
Acq: 17 Sep 2025 13:14

Tgt Ion:330 Resp: 893

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 330 | 100 | | |
| 332 | 96.6 | 75.3 | 112.9 |
| 141 | 40.9 | 35.0 | 52.4 |



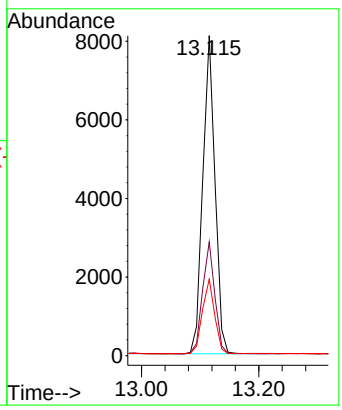


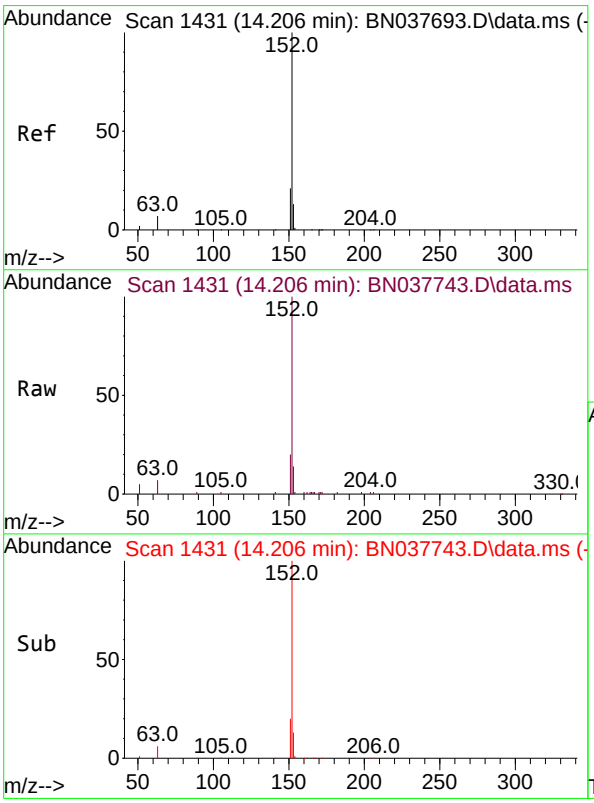

#15
2-Fluorobiphenyl
Concen: 0.316 ng
RT: 13.115 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN037743.D
Acq: 17 Sep 2025 13:14

**Instrument :**
BNA_N
**ClientSampleId :**
MW203D2-20250909MS

Tgt Ion:172 Resp: 11665

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 172 | 100 | | |
| 171 | 35.5 | 28.6 | 43.0 |
| 170 | 23.9 | 19.8 | 29.8 |

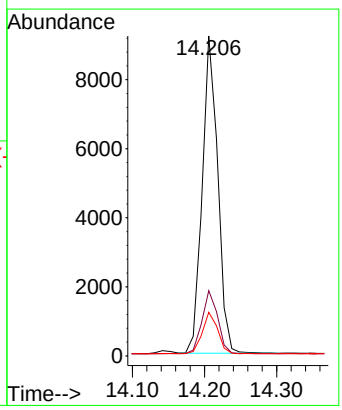


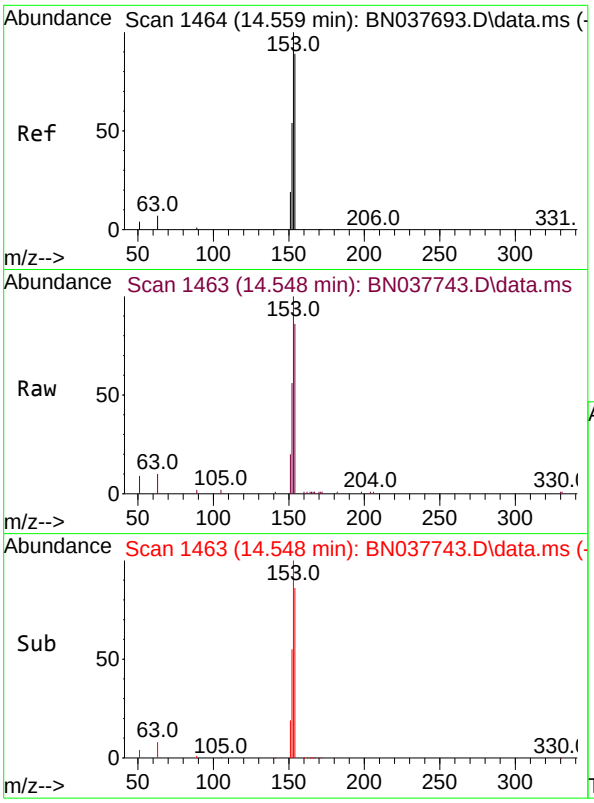




#16
Acenaphthylene
Concen: 0.340 ng
RT: 14.206 min Scan# 1431
Delta R.T. -0.000 min
Lab File: BN037743.D
Acq: 17 Sep 2025 13:14

Tgt Ion:152 Resp: 13728

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 151 | 20.3 | 16.2 | 24.2 |
| 153 | 13.1 | 10.4 | 15.6 |



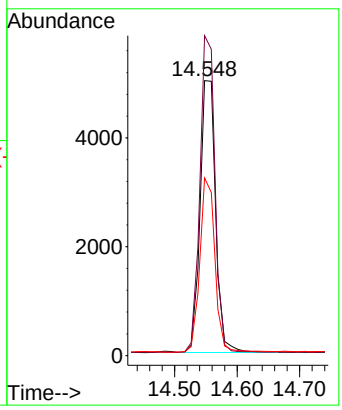


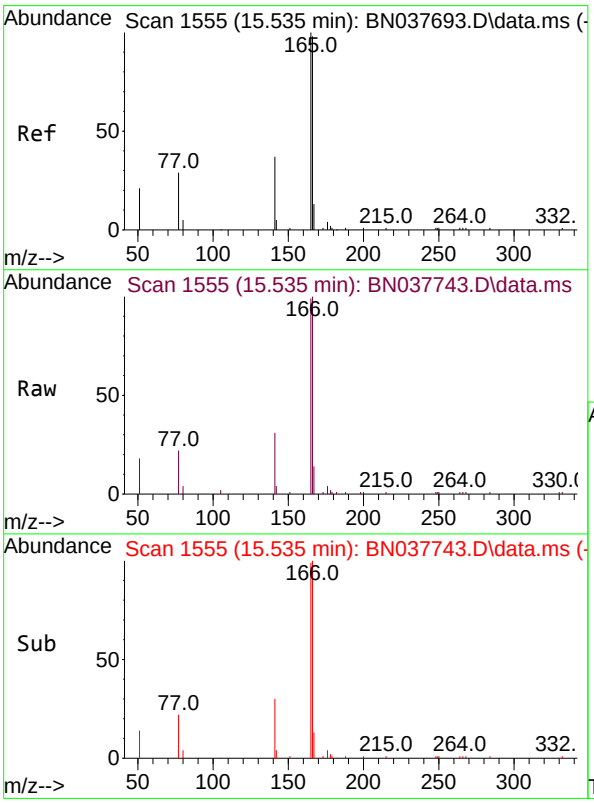

#17
Acenaphthene
Concen: 0.316 ng
RT: 14.548 min Scan# 14
Delta R.T. -0.011 min
Lab File: BN037743.D
Acq: 17 Sep 2025 13:14

**Instrument :**
BNA_N
**ClientSampleId :**
MW203D2-20250909MS

Tgt Ion:154 Resp: 8639

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 154 | 100 | | |
| 153 | 112.7 | 89.8 | 134.8 |
| 152 | 62.1 | 50.2 | 75.2 |

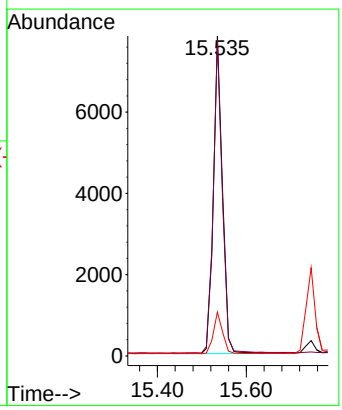


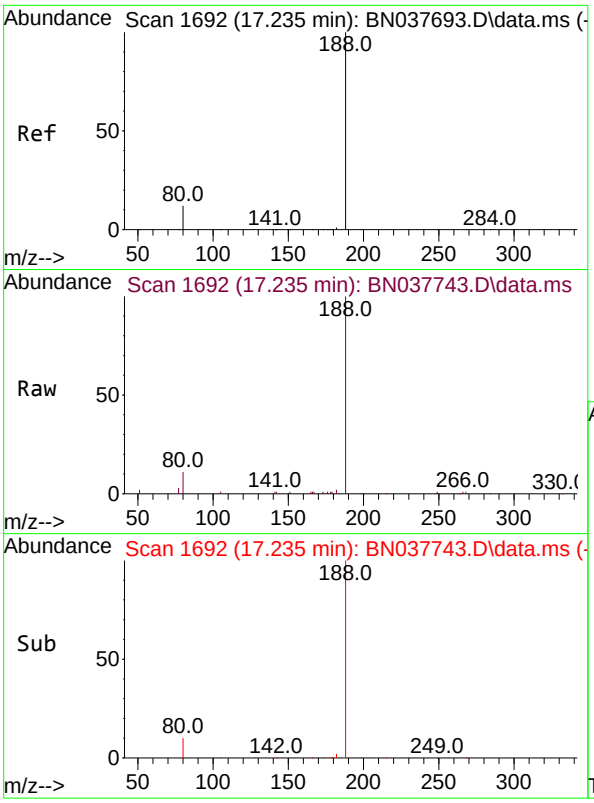




#18
Fluorene
Concen: 0.319 ng
RT: 15.535 min Scan# 1555
Delta R.T. -0.000 min
Lab File: BN037743.D
Acq: 17 Sep 2025 13:14

Tgt Ion:166 Resp: 10553

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 166 | 100 | | |
| 165 | 97.6 | 79.6 | 119.4 |
| 167 | 13.6 | 10.6 | 16.0 |



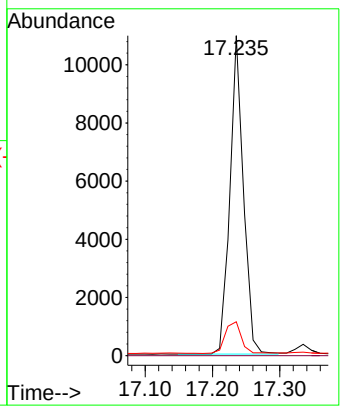


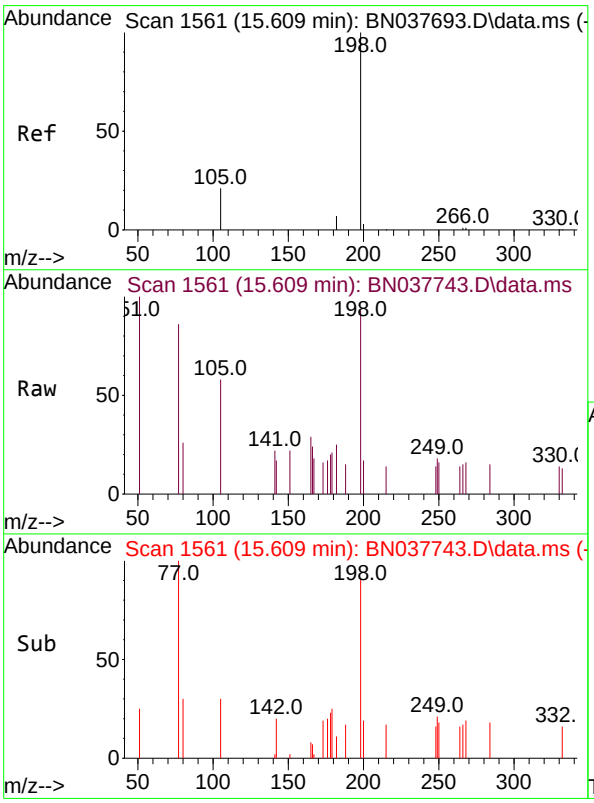

#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.235 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN037743.D
Acq: 17 Sep 2025 13:14

**Instrument :**
BNA_N
**ClientSampleId :**
MW203D2-20250909MS

Tgt Ion:188 Resp: 15289

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 188 | 100 | | |
| 94 | 0.0 | 0.0 | 0.0 |
| 80 | 10.6 | 10.6 | 15.8# |

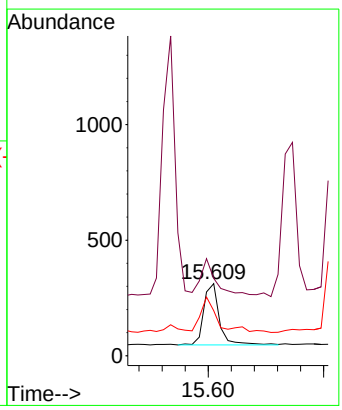


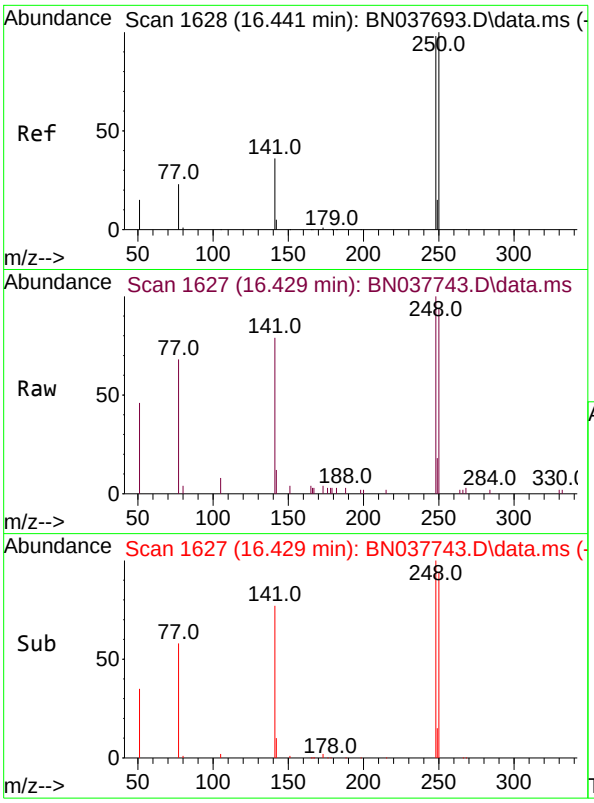




#20
4,6-Dinitro-2-methylphenol
Concen: 0.352 ng
RT: 15.609 min Scan# 1561
Delta R.T. 0.000 min
Lab File: BN037743.D
Acq: 17 Sep 2025 13:14

Tgt Ion:198 Resp: 499

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 198 | 100 | | |
| 51 | 107.4 | 95.1 | 142.7 |
| 105 | 62.5 | 53.8 | 80.6 |



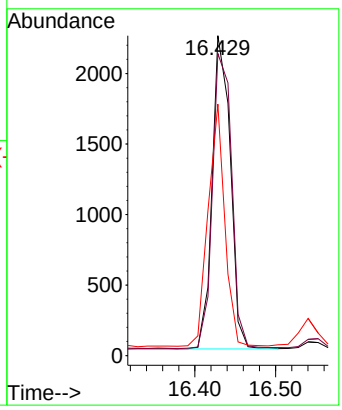


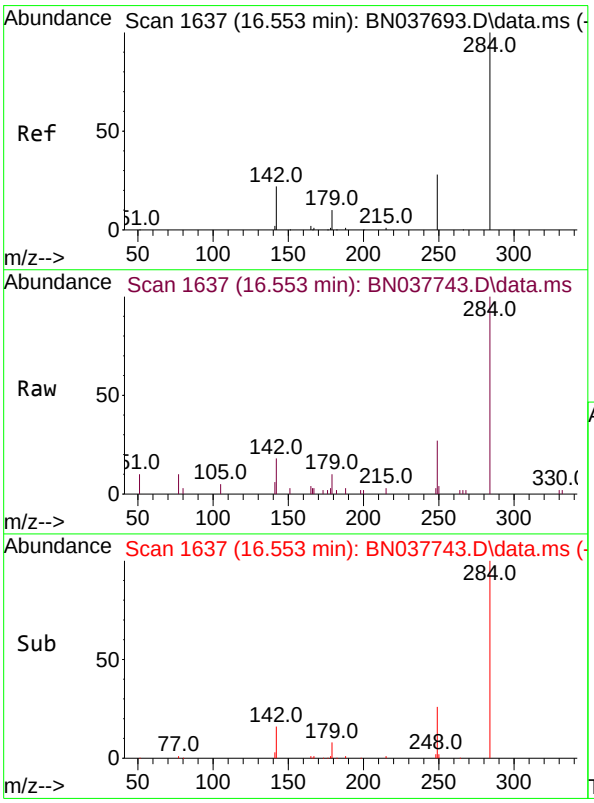

#21
4-Bromophenyl-phenylether
Concen: 0.347 ng
RT: 16.429 min Scan# 1
Delta R.T. -0.013 min
Lab File: BN037743.D
Acq: 17 Sep 2025 13:14

**Instrument :**
BNA_N
**ClientSampleId :**
MW203D2-20250909MS

Tgt Ion:248 Resp: 3460

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 248 | 100 | | |
| 250 | 94.4 | 81.5 | 122.3 |
| 141 | 78.6 | 30.8 | 46.2# |

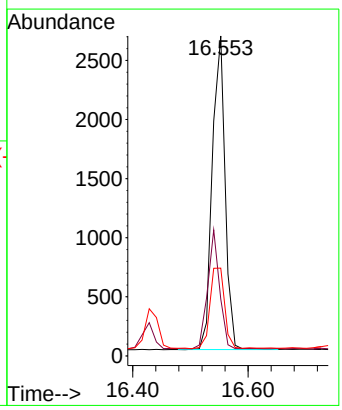


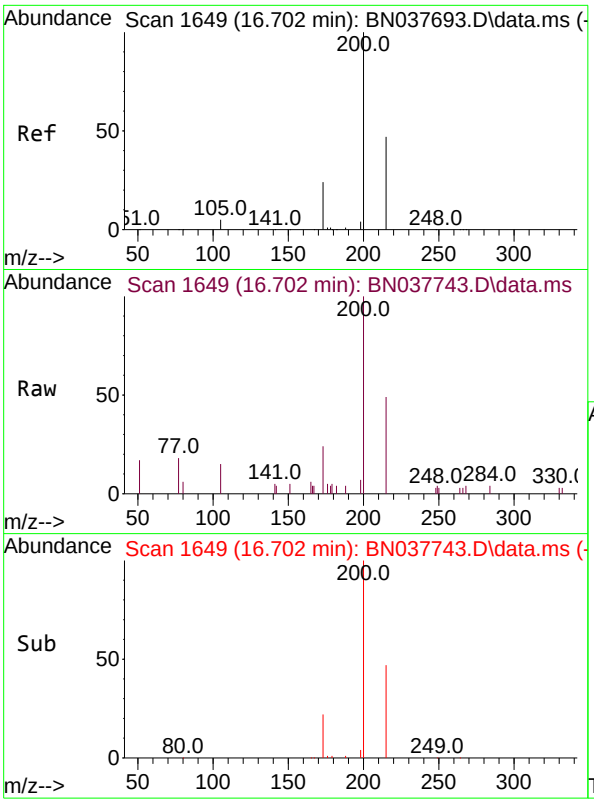




#22
Hexachlorobenzene
Concen: 0.359 ng
RT: 16.553 min Scan# 1637
Delta R.T. -0.000 min
Lab File: BN037743.D
Acq: 17 Sep 2025 13:14

Tgt Ion:284 Resp: 4115

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 284 | 100 | | |
| 142 | 35.2 | 30.9 | 46.3 |
| 249 | 29.6 | 24.8 | 37.2 |



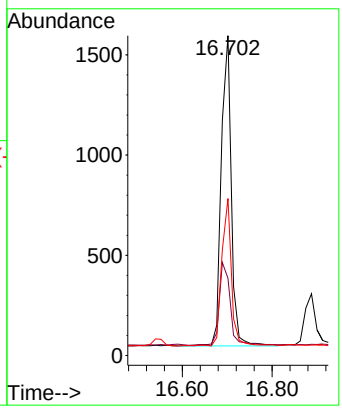


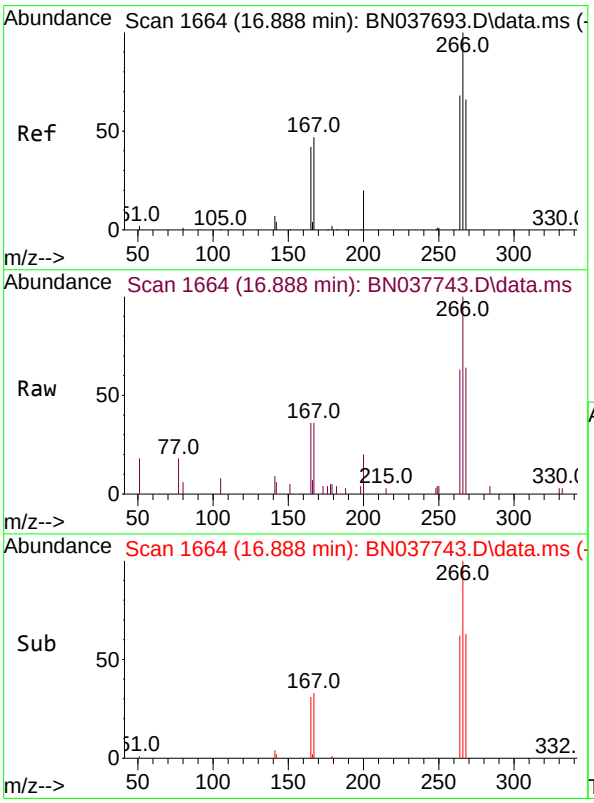

#23
Atrazine
Concen: 0.377 ng
RT: 16.702 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN037743.D
Acq: 17 Sep 2025 13:14

**Instrument :**
BNA_N
**ClientSampleId :**
MW203D2-20250909MS

Tgt Ion:200 Resp: 2391

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 200 | 100 | | |
| 173 | 24.2 | 21.4 | 32.2 |
| 215 | 49.1 | 39.2 | 58.8 |

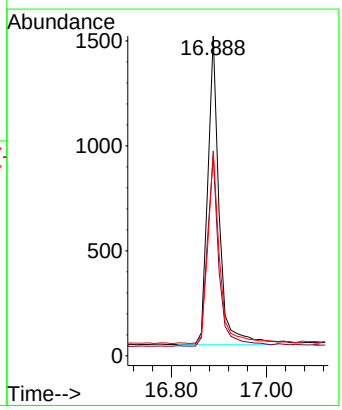


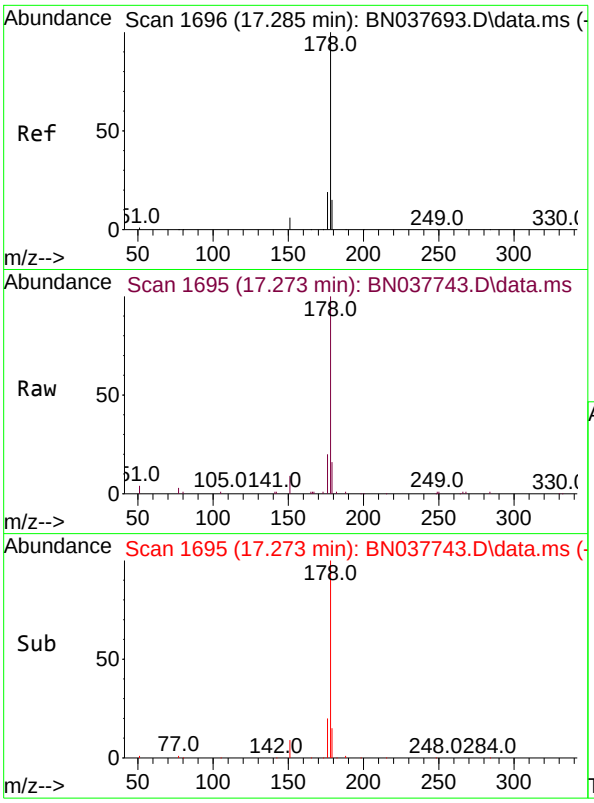




#24
Pentachlorophenol
Concen: 0.741 ng
RT: 16.888 min Scan# 1664
Delta R.T. -0.000 min
Lab File: BN037743.D
Acq: 17 Sep 2025 13:14

Tgt Ion:266 Resp: 2467

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 266 | 100 | | |
| 264 | 62.3 | 51.6 | 77.4 |
| 268 | 63.5 | 53.2 | 79.8 |



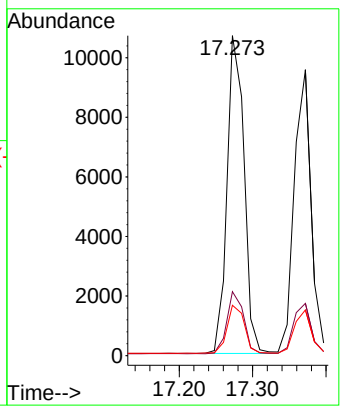


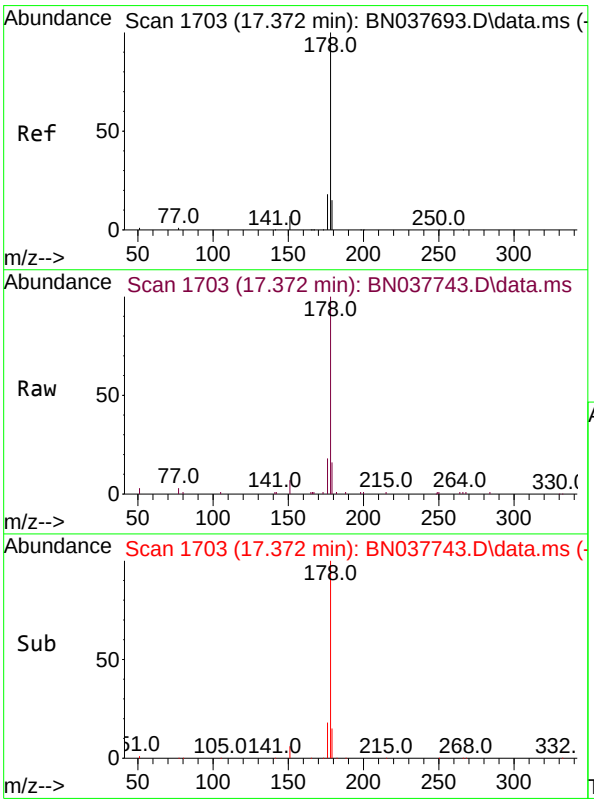

#25
Phenanthrene
Concen: 0.360 ng
RT: 17.273 min Scan# 1
Delta R.T. -0.013 min
Lab File: BN037743.D
Acq: 17 Sep 2025 13:14

**Instrument :**
BNA_N
**ClientSampleId :**
MW203D2-20250909MS

Tgt Ion:178 Resp: 17307

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 178 | 100 | | |
| 176 | 19.2 | 15.3 | 22.9 |
| 179 | 15.5 | 12.2 | 18.2 |

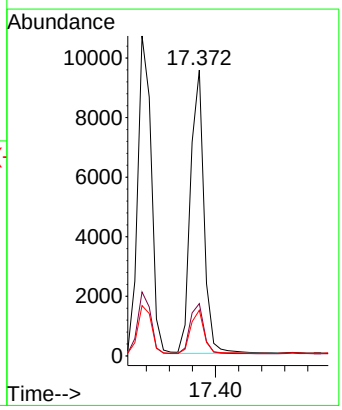


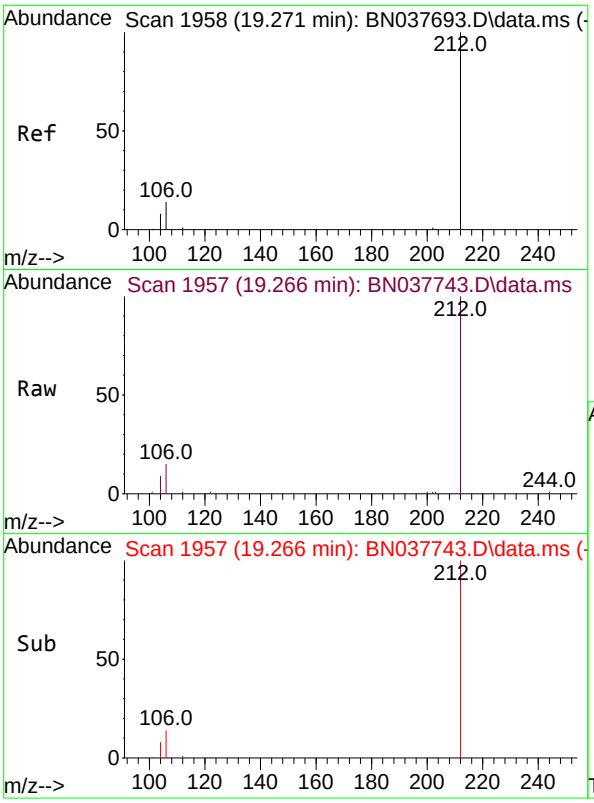




#26
Anthracene
Concen: 0.361 ng
RT: 17.372 min Scan# 1703
Delta R.T. -0.000 min
Lab File: BN037743.D
Acq: 17 Sep 2025 13:14

Tgt Ion:178 Resp: 15375

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 178 | 100 | | |
| 176 | 18.5 | 14.6 | 22.0 |
| 179 | 15.3 | 12.2 | 18.4 |



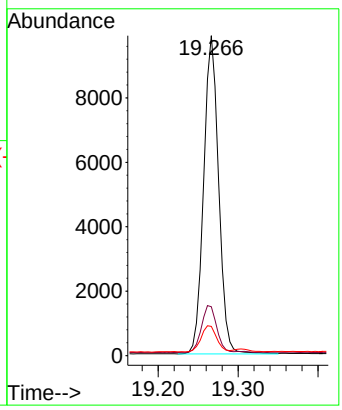


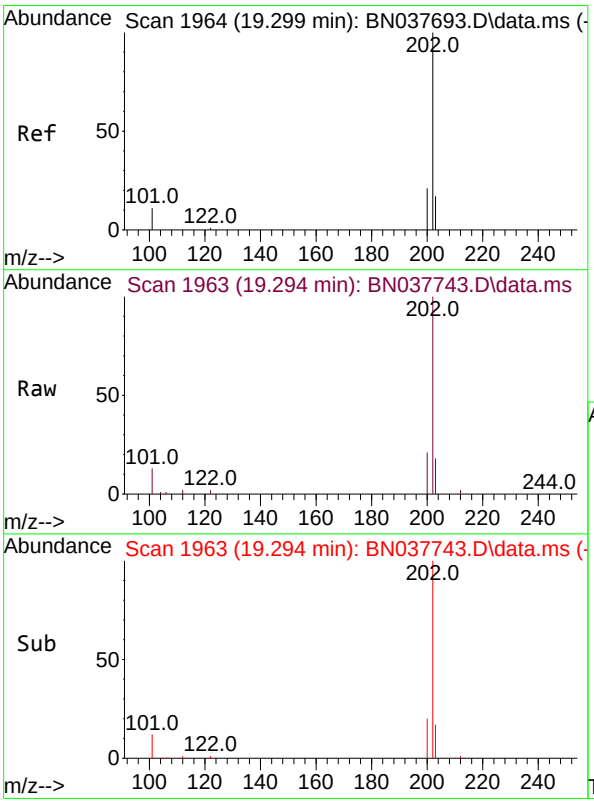

#27
Fluoranthene-d10
Concen: 0.334 ng
RT: 19.266 min Scan# 19
Delta R.T. -0.005 min
Lab File: BN037743.D
Acq: 17 Sep 2025 13:14

**Instrument :**
BNA_N
**ClientSampleId :**
MW203D2-20250909MS

Tgt Ion:212 Resp: 12832

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 212 | 100 | | |
| 106 | 15.1 | 12.2 | 18.2 |
| 104 | 8.4 | 6.9 | 10.3 |

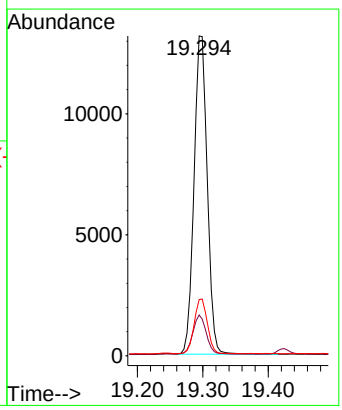


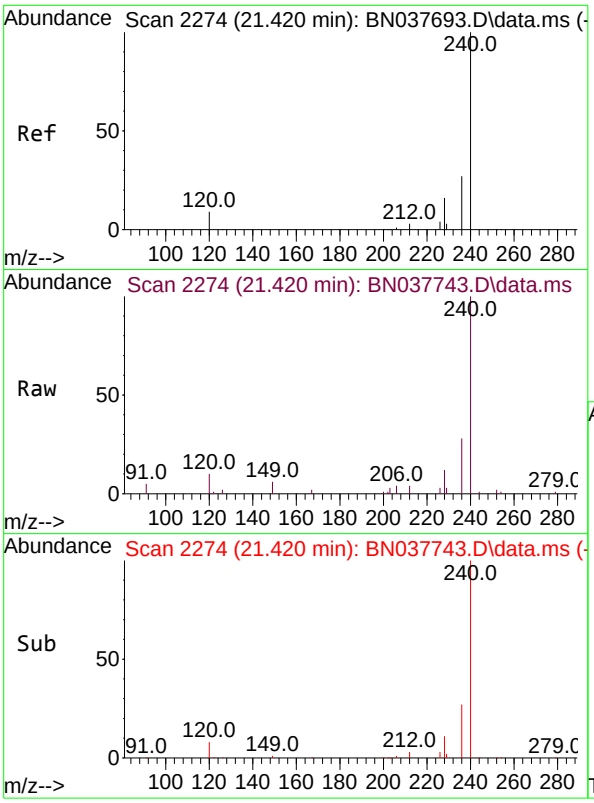




#28
Fluoranthene
Concen: 0.350 ng
RT: 19.294 min Scan# 1963
Delta R.T. -0.005 min
Lab File: BN037743.D
Acq: 17 Sep 2025 13:14

Tgt Ion:202 Resp: 18462

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 202 | 100 | | |
| 101 | 12.5 | 9.3 | 13.9 |
| 203 | 17.1 | 13.7 | 20.5 |



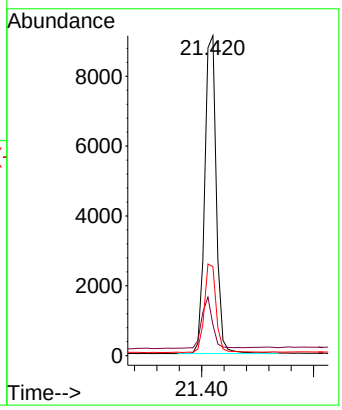


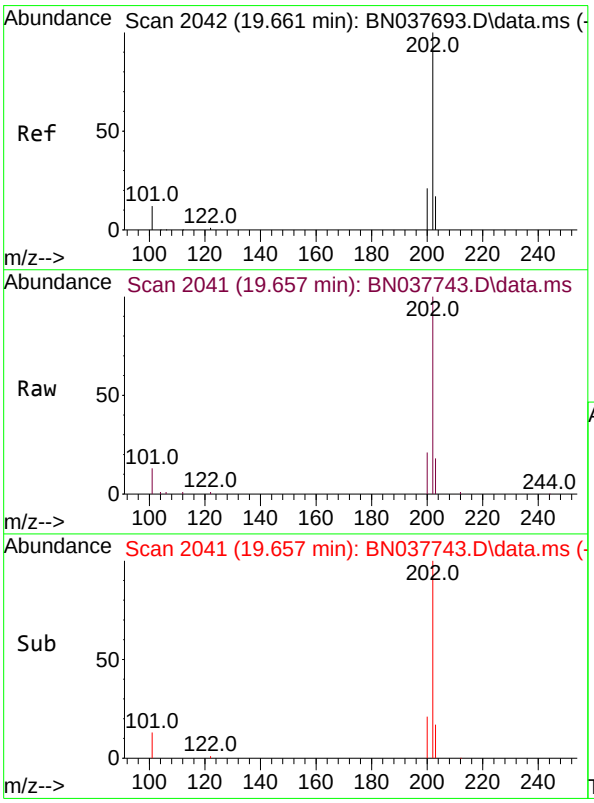

#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.420 min Scan# 21
Delta R.T. -0.000 min
Lab File: BN037743.D
Acq: 17 Sep 2025 13:14

**Instrument :**
BNA_N
**ClientSampleId :**
MW203D2-20250909MS

Tgt Ion:240 Resp: 13059

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 240 | 100 | | |
| 120 | 9.6 | 9.2 | 13.8 |
| 236 | 27.8 | 22.6 | 33.8 |

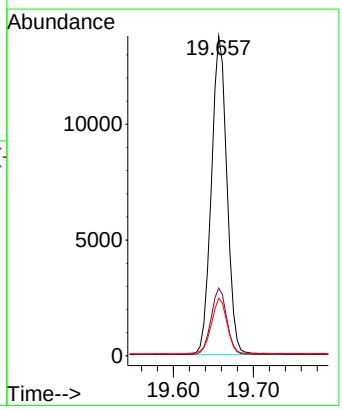


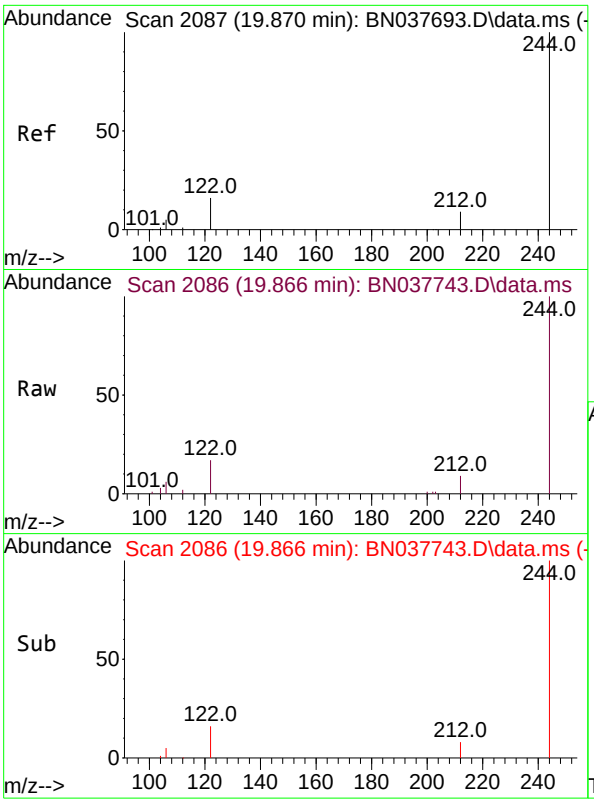




#30
Pyrene
Concen: 0.363 ng
RT: 19.657 min Scan# 2041
Delta R.T. -0.005 min
Lab File: BN037743.D
Acq: 17 Sep 2025 13:14

Tgt Ion:202 Resp: 18552

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 202 | 100 | | |
| 200 | 21.0 | 16.8 | 25.2 |
| 203 | 17.7 | 14.3 | 21.5 |



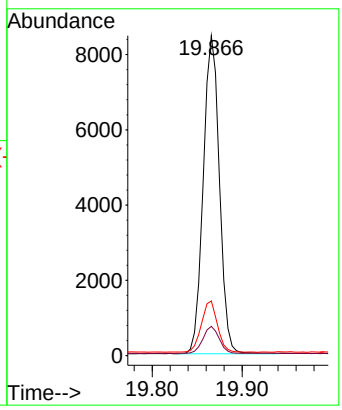


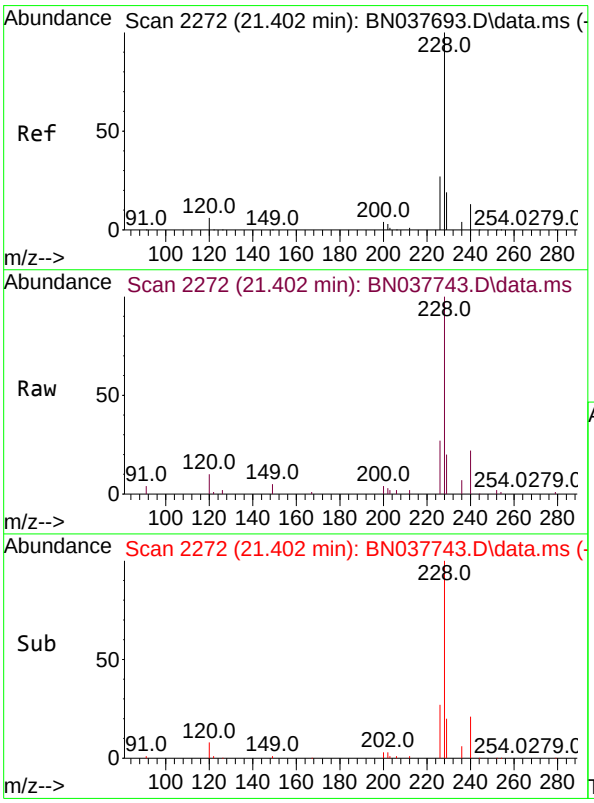

#31
Terphenyl-d14
Concen: 0.396 ng
RT: 19.866 min Scan# 20
Delta R.T. -0.005 min
Lab File: BN037743.D
Acq: 17 Sep 2025 13:14

**Instrument :**
BNA_N
**ClientSampleId :**
MW203D2-20250909MS

Tgt Ion:244 Resp: 10504

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 244 | 100 | | |
| 212 | 9.1 | 7.5 | 11.3 |
| 122 | 17.1 | 13.2 | 19.8 |

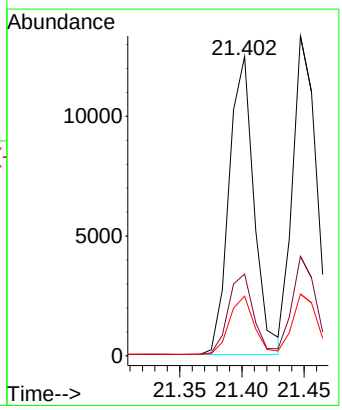


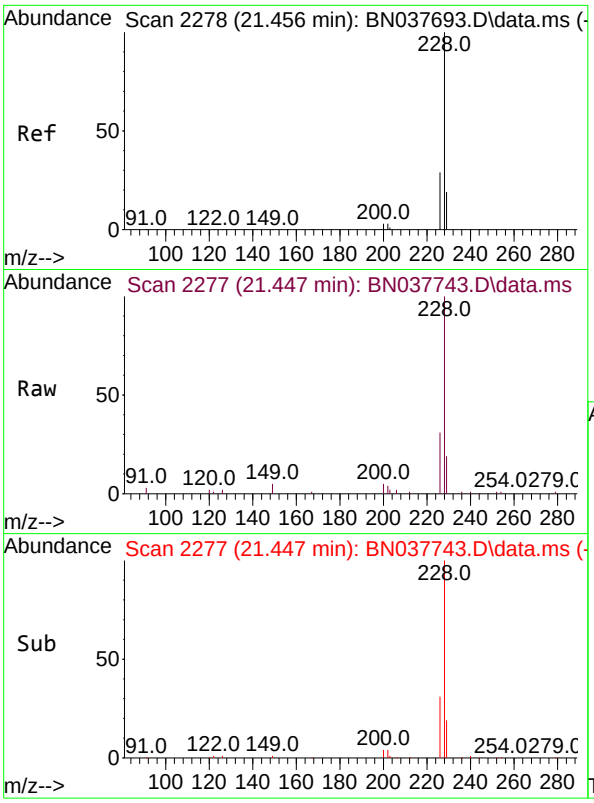




#32
Benzo(a)anthracene
Concen: 0.383 ng
RT: 21.402 min Scan# 2272
Delta R.T. -0.000 min
Lab File: BN037743.D
Acq: 17 Sep 2025 13:14

Tgt Ion:228 Resp: 17427

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 228 | 100 | | |
| 226 | 27.3 | 22.2 | 33.2 |
| 229 | 20.0 | 15.8 | 23.6 |



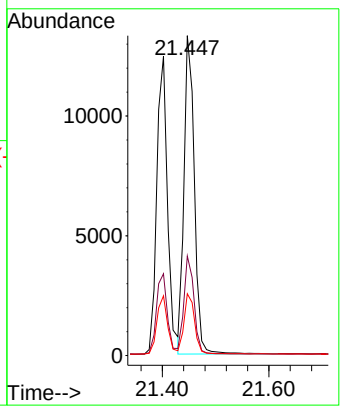


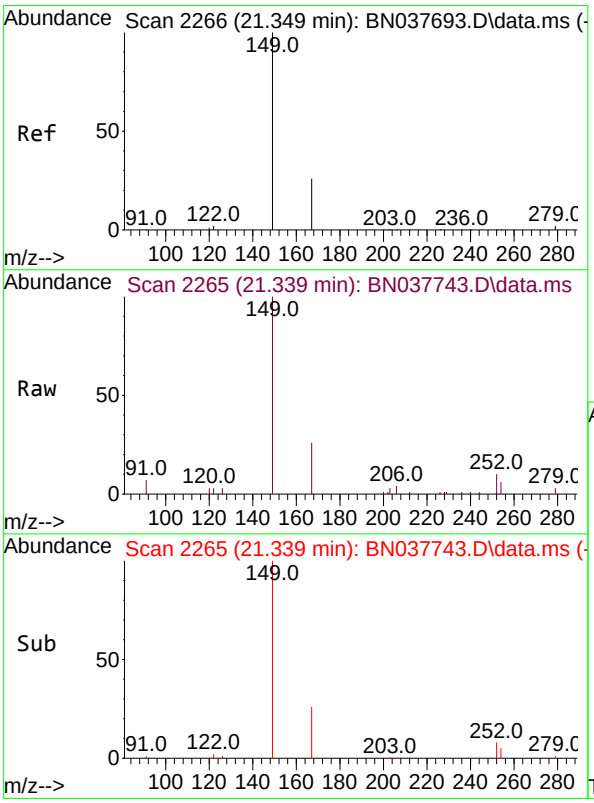

#33
Chrysene
Concen: 0.370 ng
RT: 21.447 min Scan# 2
Delta R.T. -0.009 min
Lab File: BN037743.D
Acq: 17 Sep 2025 13:14

**Instrument :**
BNA_N
**ClientSampleId :**
MW203D2-20250909MS

Tgt Ion:228 Resp: 18053

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 228 | 100 | | |
| 226 | 31.1 | 23.5 | 35.3 |
| 229 | 19.3 | 15.9 | 23.9 |

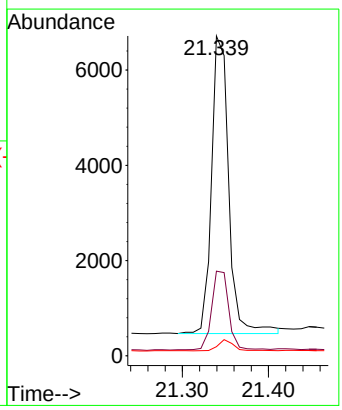


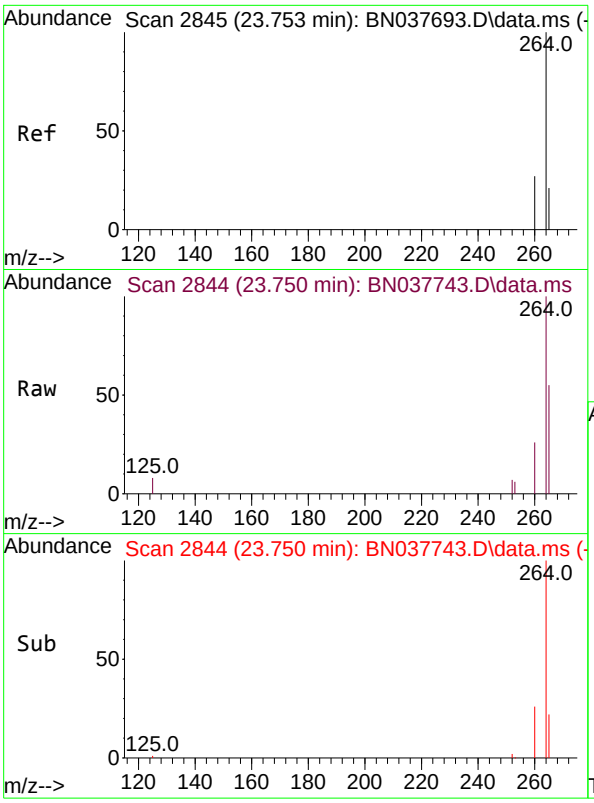




#34
Bis(2-ethylhexyl)phthalate
Concen: 0.642 ng
RT: 21.339 min Scan# 2265
Delta R.T. -0.009 min
Lab File: BN037743.D
Acq: 17 Sep 2025 13:14

Tgt Ion:149 Resp: 8669

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 149 | 100 | | |
| 167 | 25.9 | 20.8 | 31.2 |
| 279 | 3.4 | 3.3 | 4.9 |



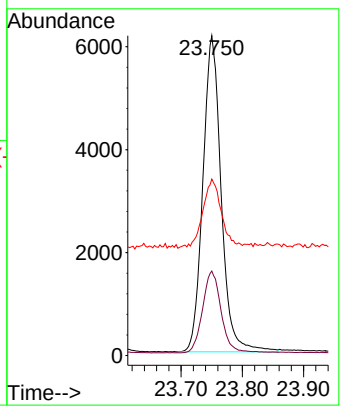


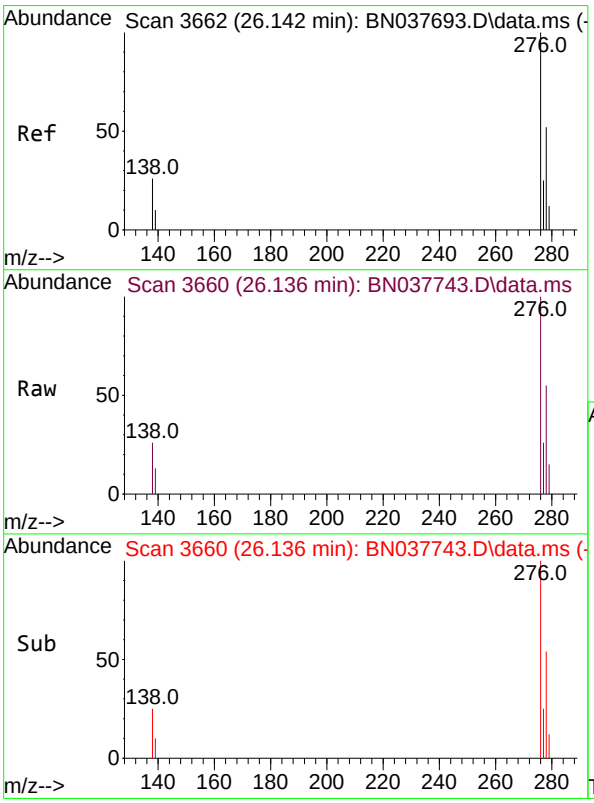

#35
Perylene-d12
Concen: 0.400 ng
RT: 23.750 min Scan# 2
Delta R.T. -0.003 min
Lab File: BN037743.D
Acq: 17 Sep 2025 13:14

**Instrument :**
BNA_N
**ClientSampleId :**
MW203D2-20250909MS

Tgt Ion:264 Resp: 12757

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 264 | 100 | | |
| 260 | 26.4 | 21.8 | 32.8 |
| 265 | 55.2 | 39.4 | 59.2 |

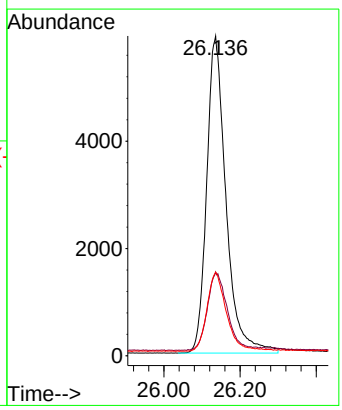


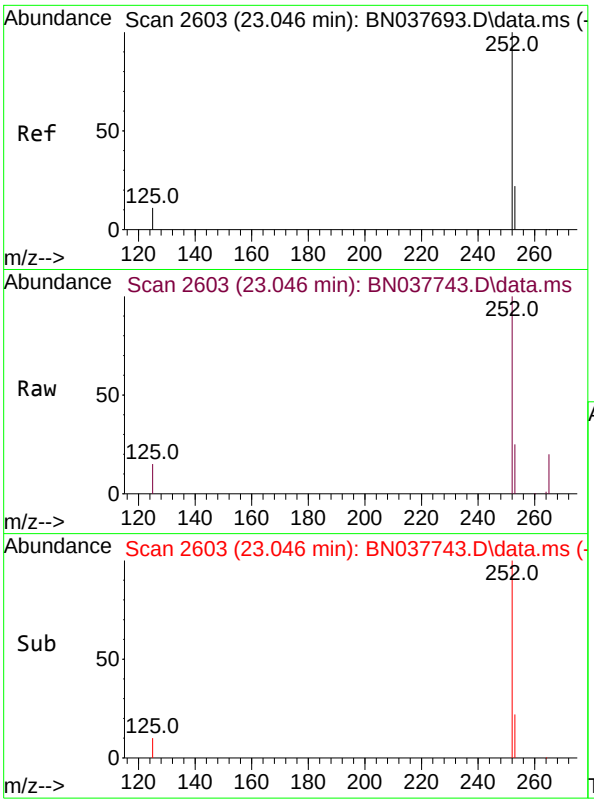




#36
Indeno(1,2,3-cd)pyrene
Concen: 0.389 ng
RT: 26.136 min Scan# 3660
Delta R.T. -0.006 min
Lab File: BN037743.D
Acq: 17 Sep 2025 13:14

Tgt Ion:276 Resp: 20862

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 276 | 100 | | |
| 138 | 25.4 | 21.9 | 32.9 |
| 277 | 24.9 | 20.1 | 30.1 |



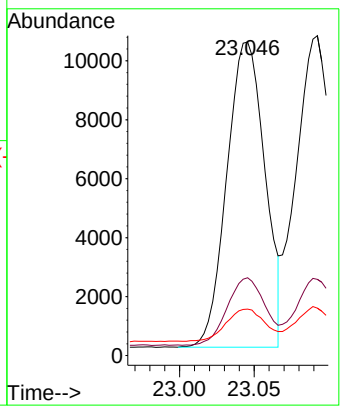


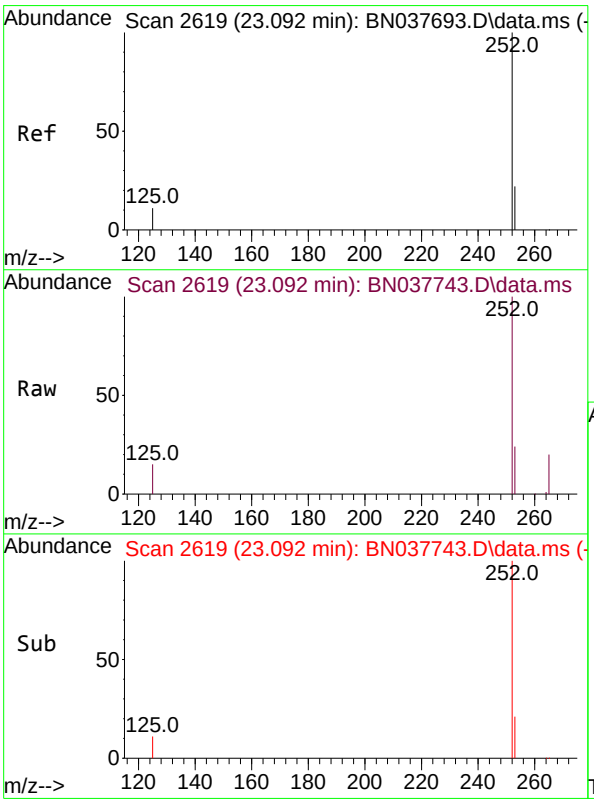

#37
Benzo(b)fluoranthene
Concen: 0.366 ng
RT: 23.046 min Scan# 2
Delta R.T. -0.000 min
Lab File: BN037743.D
Acq: 17 Sep 2025 13:14

**Instrument :**
BNA_N
**ClientSampleId :**
MW203D2-20250909MS

Tgt Ion:252 Resp: 18402

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 24.8 | 19.4 | 29.2 |
| 125 | 14.8 | 11.2 | 16.8 |

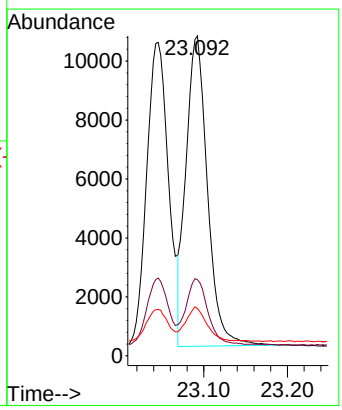


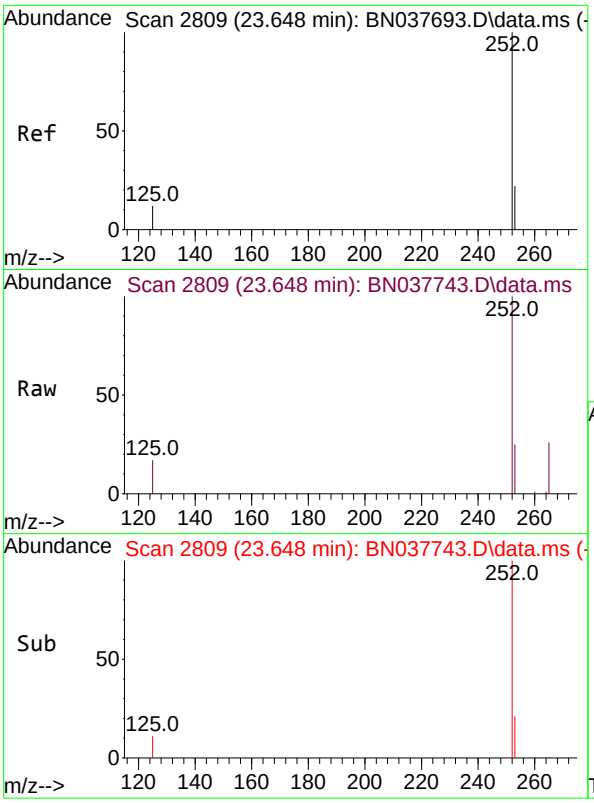




#38
Benzo(k)fluoranthene
Concen: 0.367 ng
RT: 23.092 min Scan# 2619
Delta R.T. -0.000 min
Lab File: BN037743.D
Acq: 17 Sep 2025 13:14

Tgt Ion:252 Resp: 18793

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 23.8 | 19.4 | 29.0 |
| 125 | 14.8 | 11.6 | 17.4 |



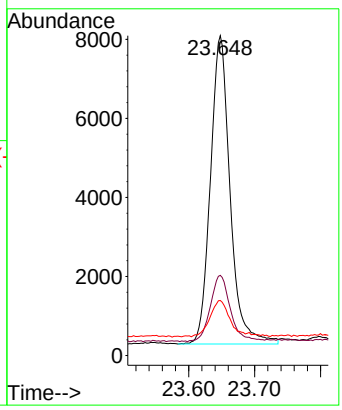


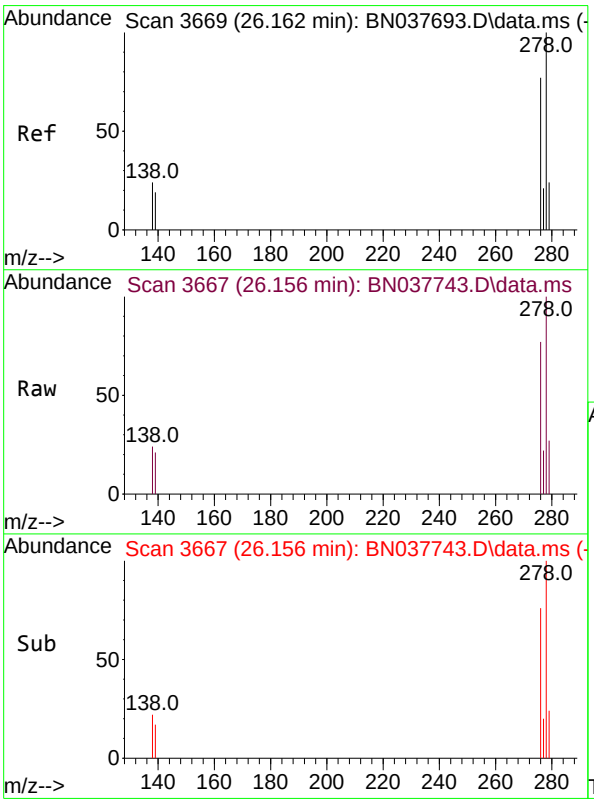

#39
Benzo(a)pyrene
Concen: 0.403 ng
RT: 23.648 min Scan# 28
Delta R.T. -0.000 min
Lab File: BN037743.D
Acq: 17 Sep 2025 13:14

**Instrument :**
BNA_N
**ClientSampleId :**
MW203D2-20250909MS

Tgt Ion:252 Resp: 16200

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 25.1 | 20.8 | 31.2 |
| 125 | 17.2 | 13.9 | 20.9 |

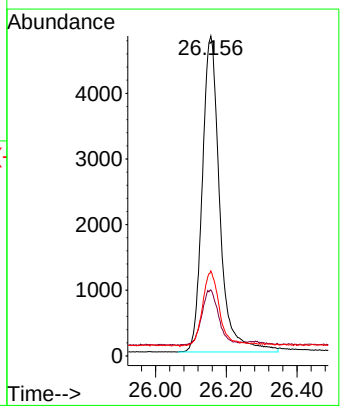


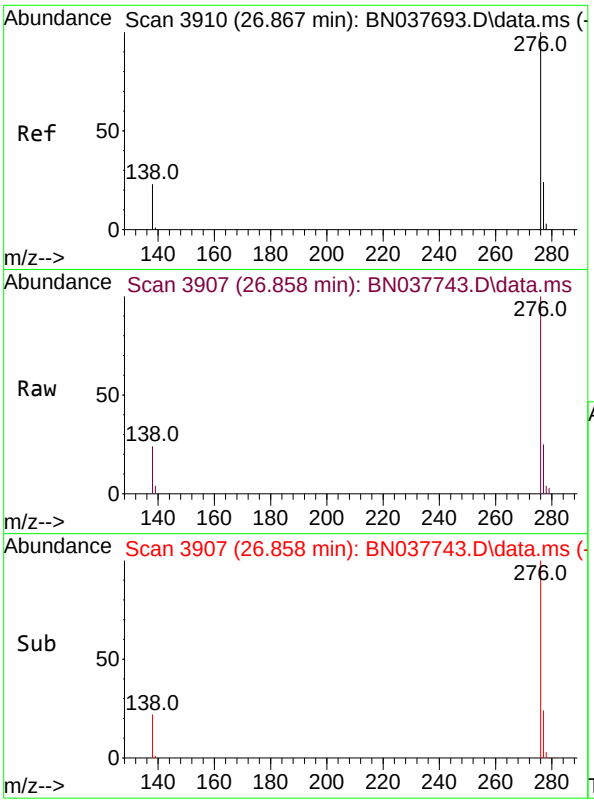




#40
Dibenzo(a,h)anthracene
Concen: 0.387 ng
RT: 26.156 min Scan# 3667
Delta R.T. -0.006 min
Lab File: BN037743.D
Acq: 17 Sep 2025 13:14

Tgt Ion:278 Resp: 16551

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 278 | 100 | | |
| 139 | 20.6 | 17.8 | 26.6 |
| 279 | 26.5 | 22.0 | 33.0 |



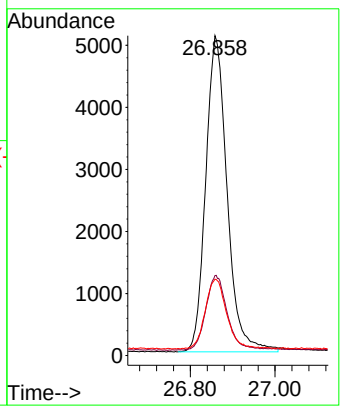



#41
Benzo(g,h,i)perylene
Concen: 0.372 ng
RT: 26.858 min Scan# 3
Delta R.T. -0.009 min
Lab File: BN037743.D
Acq: 17 Sep 2025 13:14

**Instrument :**
BNA_N
**ClientSampleId :**
MW203D2-20250909MS

Tgt Ion:276 Resp: 17872

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 276 | 100 | | |
| 277 | 25.0 | 20.6 | 31.0 |
| 138 | 23.9 | 20.2 | 30.2 |



Raw Data: **BN037772.D**

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

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | AECOM Technical Services, Inc. | Date Collected: | 09/11/25 |
| Project: | NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258 | Date Received: | 09/12/25 |
| Client Sample ID: | RE103D2-20250911MS | SDG No.: | Q3095 |
| Lab Sample ID: | Q3097-02MS | Matrix: | Water |
| Analytical Method: | SW8270ESIM | % Solid: | 0 |
| Sample Wt/Vol: | 1000 Units: mL | Final Vol: | 1000 uL |
| Soil Aliquot Vol: | uL | Test: | SVOC-SIMGroup1 |
| Extraction Type : | Decanted : N | Level : | LOW |
| Injection Volume : | GPC Factor : 1.0 | GPC Cleanup : | N PH : |
| Prep Method : | | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| BN037772.D | 1 | 09/15/25 12:00 | 09/18/25 11:48 | PB169693 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOD | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | | |
| 123-91-1 | 1,4-Dioxane | 0.72 | | 0.070 | 0.20 | 0.20 | ug/L |
| **SURROGATES** | | | | | | | |
| 7297-45-2 | 2-Methylnaphthalene-d10 | 0.28 | | 30 - 150 | | 70% | SPK: 0.4 |
| 93951-69-0 | Fluoranthene-d10 | 0.35 | | 30 - 150 | | 87% | SPK: 0.4 |
| 4165-60-0 | Nitrobenzene-d5 | 0.33 | | 55 - 111 | | 81% | SPK: 0.4 |
| 321-60-8 | 2-Fluorobiphenyl | 0.30 | | 53 - 106 | | 76% | SPK: 0.4 |
| 1718-51-0 | Terphenyl-d14 | 0.43 | | 58 - 132 | | 107% | SPK: 0.4 |
| **INTERNAL STANDARDS** | | | | | | | |
| 3855-82-1 | 1,4-Dichlorobenzene-d4 | 7220 | 7.833 | | | | |
| 1146-65-2 | Naphthalene-d8 | 19400 | 10.637 | | | | |
| 15067-26-2 | Acenaphthene-d10 | 8790 | 14.484 | | | | |
| 1517-22-2 | Phenanthrene-d10 | 14600 | 17.236 | | | | |
| 1719-03-5 | Chrysene-d12 | 11100 | 21.411 | | | | |
| 1520-96-3 | Perylene-d12 | 10700 | 23.744 | | | | |

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

Sample Results: **BN037772.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN091725\
Data File : BN037772.D
Acq On : 18 Sep 2025 11:48
Operator : RC/JU
Sample : Q3097-02MS
Misc :
ALS Vial : 33 Sample Multiplier: 1

**Instrument :**
BNA_N
**ClientSampleId :**
RE103D2-20250911MS

Quant Time: Sep 18 12:16:23 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN091125.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Sep 11 14:20:01 2025
Response via : Initial Calibration

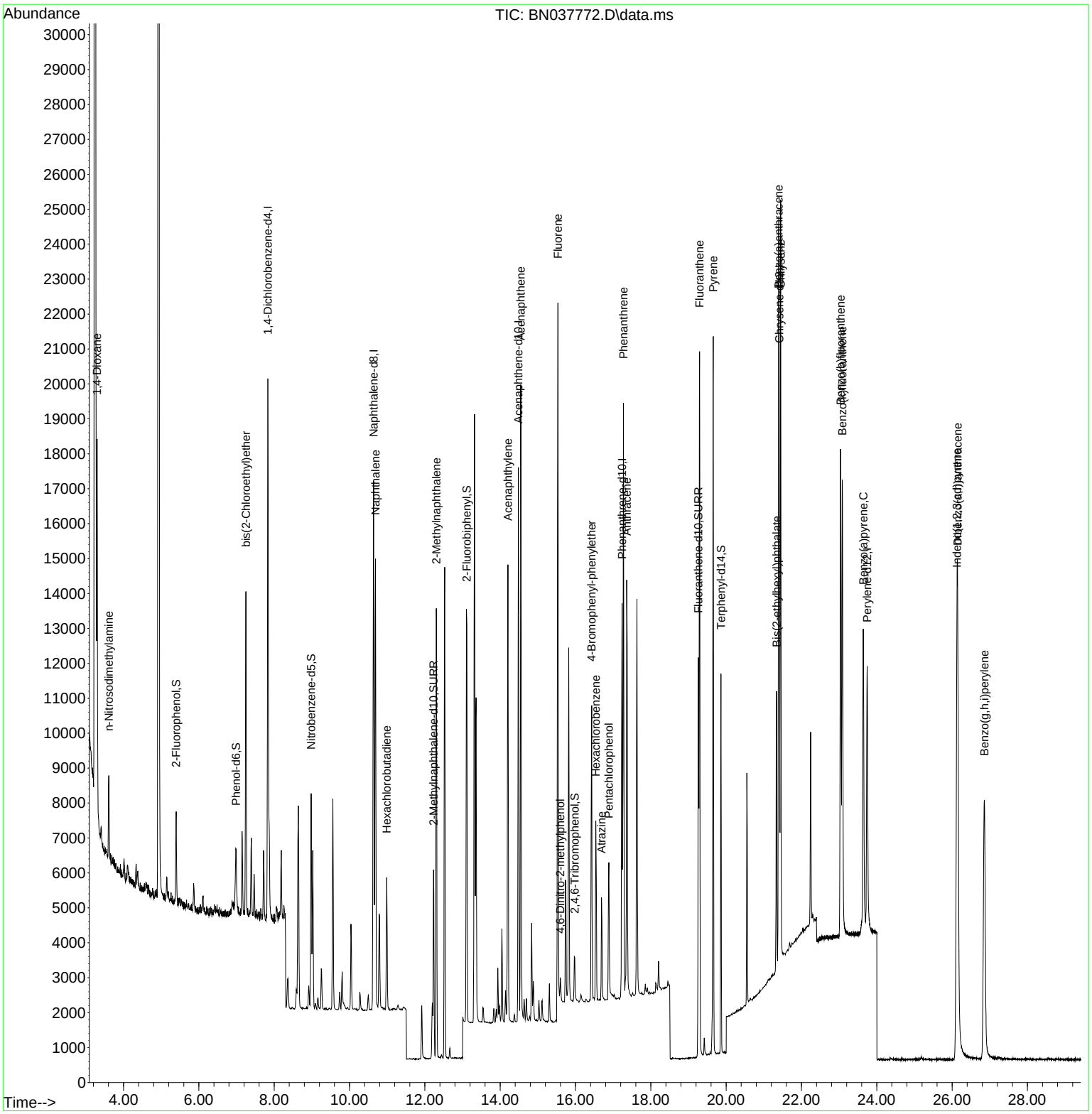
| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| Internal Standards | | | | | | | |
| 1) 1,4-Dichlorobenzene-d4 | 7.833 | 152 | 7218 | 0.400 | ng | | 0.00 |
| 7) Naphthalene-d8 | 10.637 | 136 | 19437 | 0.400 | ng | | -0.01 |
| 13) Acenaphthene-d10 | 14.484 | 164 | 8792 | 0.400 | ng | | -0.01 |
| 19) Phenanthrene-d10 | 17.236 | 188 | 14560 | 0.400 | ng | # | 0.00 |
| 29) Chrysene-d12 | 21.411 | 240 | 11077 | 0.400 | ng | # | 0.00 |
| 35) Perylene-d12 | 23.744 | 264 | 10712 | 0.400 | ng | # | 0.00 |
| System Monitoring Compounds | | | | | | | |
| 4) 2-Fluorophenol | 5.399 | 112 | 2158 | 0.130 | ng | | 0.00 |
| 5) Phenol-d6 | 6.988 | 99 | 1612 | 0.075 | ng | | 0.00 |
| 8) Nitrobenzene-d5 | 8.982 | 82 | 4623 | 0.325 | ng | | -0.01 |
| 11) 2-Methylnaphthalene-d10 | 12.233 | 152 | 7201 | 0.280 | ng | | -0.01 |
| 14) 2,4,6-Tribromophenol | 15.982 | 330 | 880 | 0.384 | ng | | 0.00 |
| 15) 2-Fluorobiphenyl | 13.115 | 172 | 11146 | 0.303 | ng | | 0.00 |
| 27) Fluoranthene-d10 | 19.262 | 212 | 12673 | 0.347 | ng | | 0.00 |
| 31) Terphenyl-d14 | 19.861 | 244 | 9630 | 0.428 | ng | | 0.00 |
| Target Compounds | | | | | | | Qvalue |
| 2) 1,4-Dioxane | 3.297 | 88 | 5443 | 0.724 | ng | | 95 |
| 3) n-Nitrosodimethylamine | 3.608 | 42 | 1281 | 0.130 | ng | | 87 |
| 6) bis(2-Chloroethyl)ether | 7.248 | 93 | 6334 | 0.330 | ng | | 99 |
| 9) Naphthalene | 10.690 | 128 | 17098 | 0.322 | ng | | 99 |
| 10) Hexachlorobutadiene | 10.989 | 225 | 2914 | 0.303 | ng | # | 100 |
| 12) 2-Methylnaphthalene | 12.304 | 142 | 9253 | 0.282 | ng | | 100 |
| 16) Acenaphthylene | 14.206 | 152 | 13679 | 0.339 | ng | | 100 |
| 17) Acenaphthene | 14.548 | 154 | 8588 | 0.315 | ng | | 99 |
| 18) Fluorene | 15.535 | 166 | 10257 | 0.311 | ng | | 98 |
| 20) 4,6-Dinitro-2-methylph... | 15.597 | 198 | 483 | 0.358 | ng | # | 72 |
| 21) 4-Bromophenyl-phenylether | 16.429 | 248 | 3439 | 0.362 | ng | # | 89 |
| 22) Hexachlorobenzene | 16.540 | 284 | 4153 | 0.380 | ng | | 97 |
| 23) Atrazine | 16.689 | 200 | 2516 | 0.417 | ng | # | 91 |
| 24) Pentachlorophenol | 16.888 | 266 | 2259 | 0.712 | ng | | 97 |
| 25) Phenanthrene | 17.273 | 178 | 17041 | 0.372 | ng | | 100 |
| 26) Anthracene | 17.360 | 178 | 14357 | 0.354 | ng | | 100 |
| 28) Fluoranthene | 19.294 | 202 | 18098 | 0.360 | ng | | 99 |
| 30) Pyrene | 19.657 | 202 | 18207 | 0.420 | ng | | 100 |
| 32) Benzo(a)anthracene | 21.393 | 228 | 16075 | 0.416 | ng | | 100 |
| 33) Chrysene | 21.447 | 228 | 17366 | 0.419 | ng | | 99 |
| 34) Bis(2-ethylhexyl)phtha... | 21.340 | 149 | 5730 | 0.500 | ng | | 98 |
| 36) Indeno(1,2,3-cd)pyrene | 26.127 | 276 | 20796 | 0.462 | ng | | 99 |
| 37) Benzo(b)fluoranthene | 23.037 | 252 | 18047 | 0.428 | ng | | 97 |
| 38) Benzo(k)fluoranthene | 23.084 | 252 | 17770 | 0.413 | ng | | 97 |
| 39) Benzo(a)pyrene | 23.642 | 252 | 14195 | 0.420 | ng | | 97 |
| 40) Dibenzo(a,h)anthracene | 26.148 | 278 | 16460 | 0.458 | ng | | 98 |
| 41) Benzo(g,h,i)perylene | 26.855 | 276 | 17542 | 0.435 | ng | | 98 |

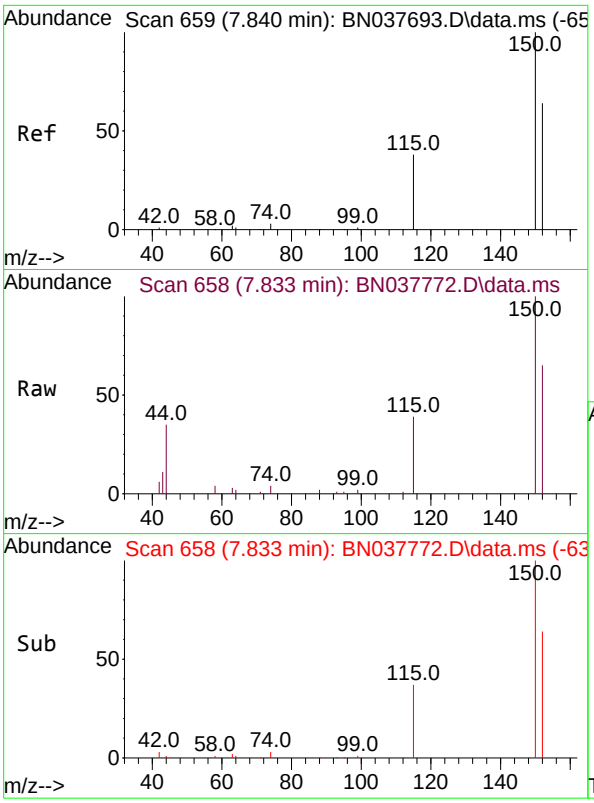
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN091725\
Data File : BN037772.D
Acq On : 18 Sep 2025 11:48
Operator : RC/JU
Sample : Q3097-02MS
Misc :
ALS Vial : 33 Sample Multiplier: 1

**Instrument :**
BNA_N
**ClientSampleId :**
RE103D2-20250911MS

Quant Time: Sep 18 12:16:23 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN091125.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Sep 11 14:20:01 2025
Response via : Initial Calibration



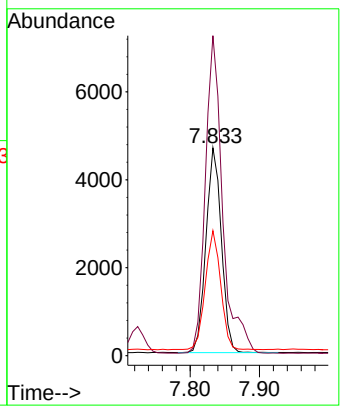


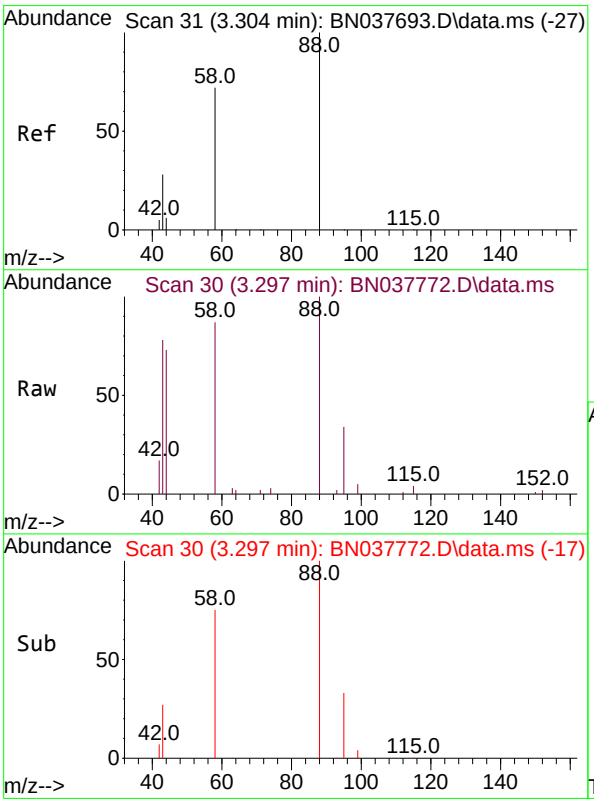

#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.833 min Scan# 6
Delta R.T. -0.007 min
Lab File: BN037772.D
Acq: 18 Sep 2025 11:48

**Instrument :**
BNA_N
**ClientSampleId :**
RE103D2-20250911MS

Tgt Ion:152 Resp: 7218

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 150 | 154.1 | 124.5 | 186.7 |
| 115 | 60.1 | 49.2 | 73.8 |

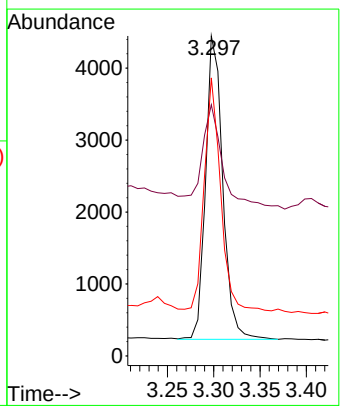


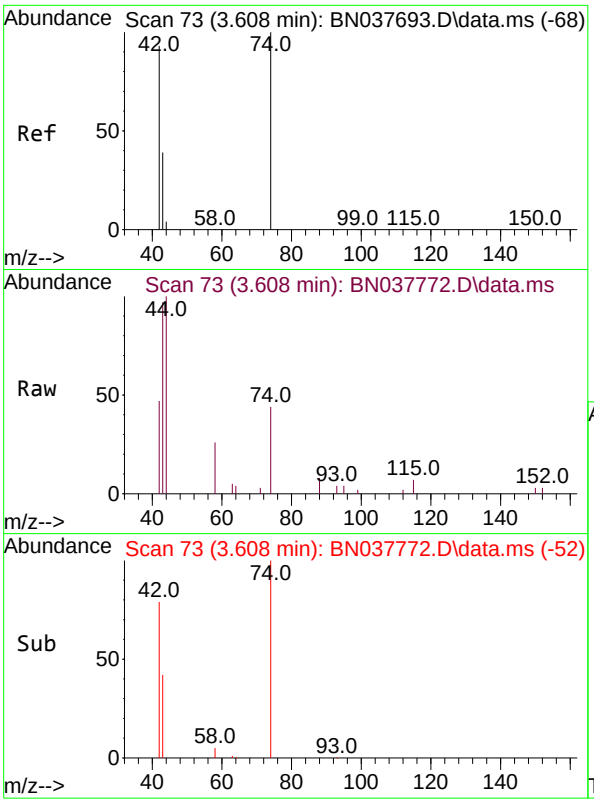




#2
1,4-Dioxane
Concen: 0.724 ng
RT: 3.297 min Scan# 30
Delta R.T. -0.007 min
Lab File: BN037772.D
Acq: 18 Sep 2025 11:48

Tgt Ion: 88 Resp: 5443

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 88 | 100 | | |
| 43 | 37.1 | 26.8 | 40.2 |
| 58 | 73.0 | 61.9 | 92.9 |



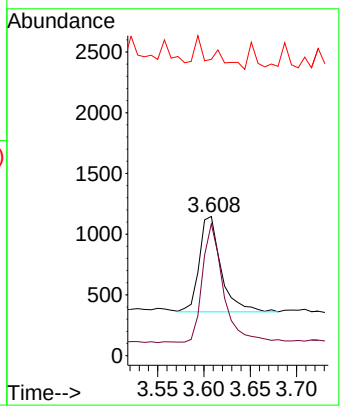


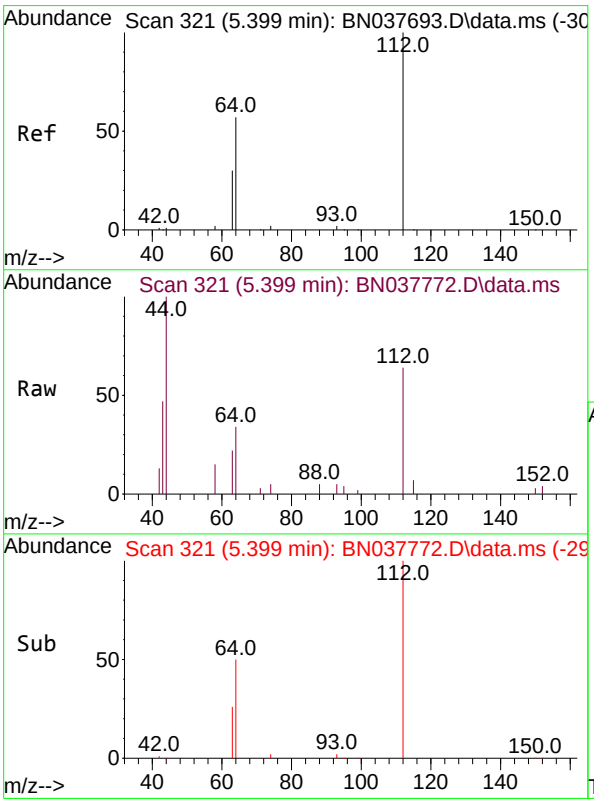

#3
n-Nitrosodimethylamine
Concen: 0.130 ng
RT: 3.608 min Scan# 7
Delta R.T. 0.000 min
Lab File: BN037772.D
Acq: 18 Sep 2025 11:48

**Instrument :**
BNA_N
**ClientSampleId :**
RE103D2-20250911MS

Tgt Ion: 42 Resp: 1281

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 42 | 100 | | |
| 74 | 121.5 | 86.0 | 129.0 |
| 44 | 11.9 | 8.4 | 12.6 |

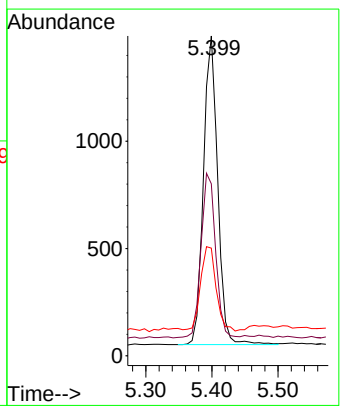


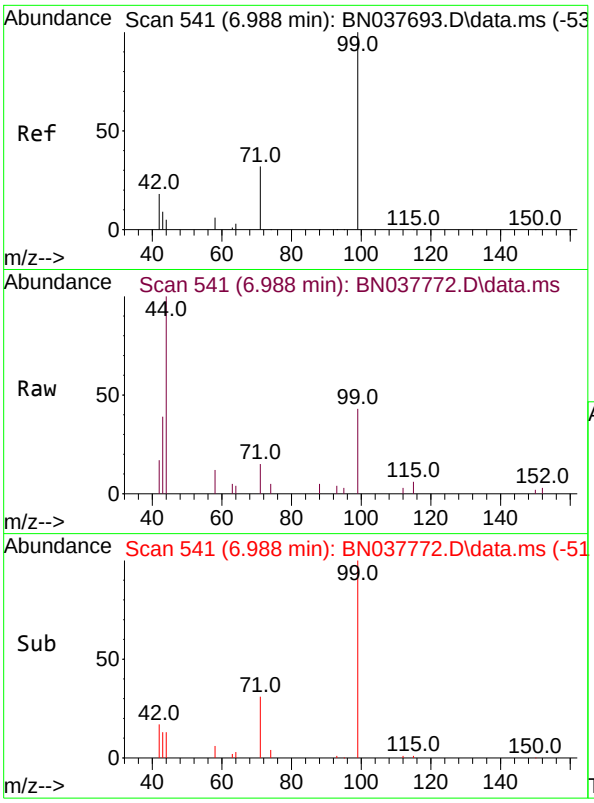




#4
2-Fluorophenol
Concen: 0.130 ng
RT: 5.399 min Scan# 321
Delta R.T. 0.000 min
Lab File: BN037772.D
Acq: 18 Sep 2025 11:48

Tgt Ion:112 Resp: 2158

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 112 | 100 | | |
| 64 | 54.4 | 44.9 | 67.3 |
| 63 | 29.7 | 24.7 | 37.1 |



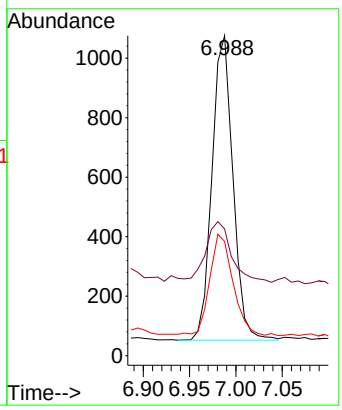


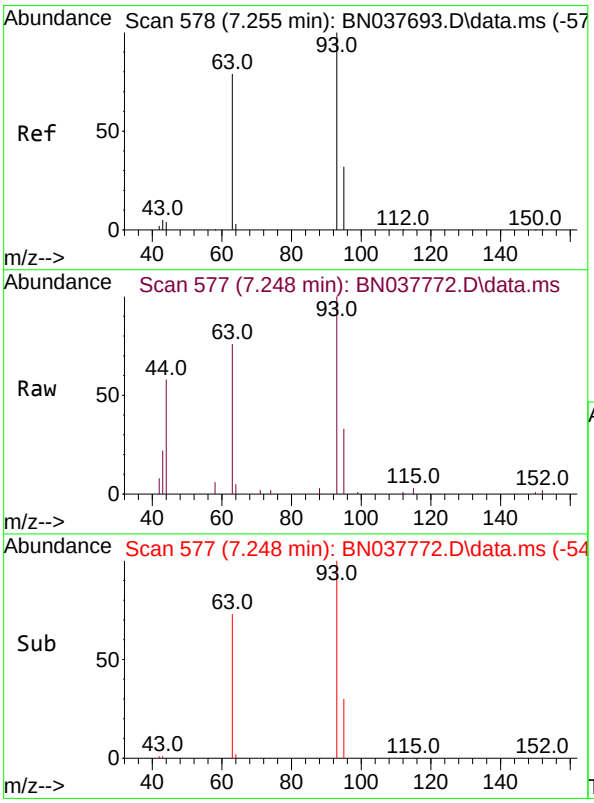

#5
Phenol-d6
Concen: 0.075 ng
RT: 6.988 min Scan# 54
Delta R.T. 0.000 min
Lab File: BN037772.D
Acq: 18 Sep 2025 11:48

**Instrument :**
BNA_N
**ClientSampleId :**
RE103D2-20250911MS

Tgt Ion: 99 Resp: 1612

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 99 | 100 | | |
| 42 | 24.2 | 16.6 | 24.8 |
| 71 | 36.7 | 26.7 | 40.1 |

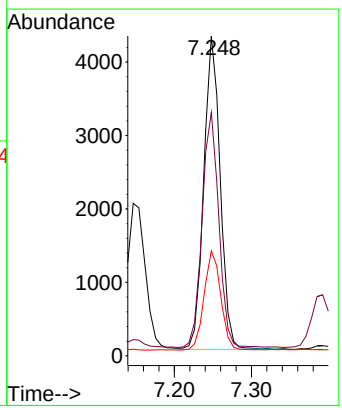


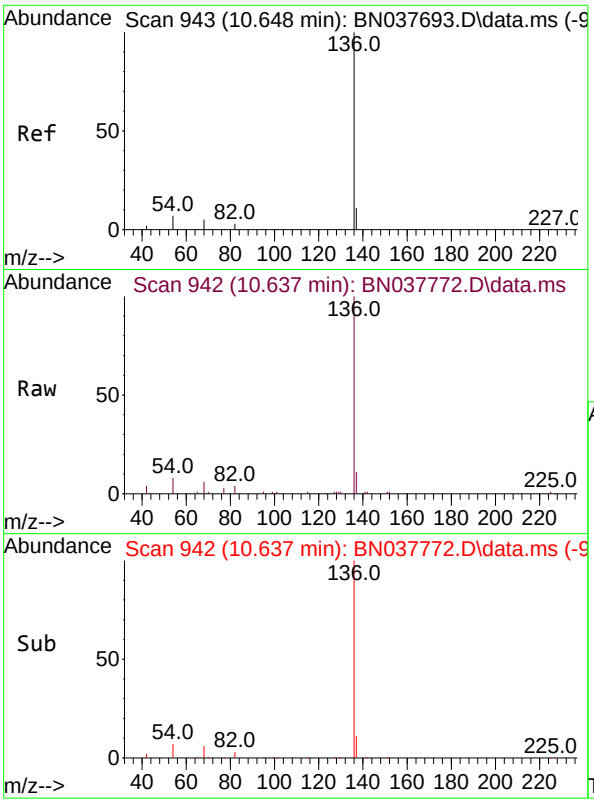




#6
bis(2-Chloroethyl)ether
Concen: 0.330 ng
RT: 7.248 min Scan# 577
Delta R.T. -0.007 min
Lab File: BN037772.D
Acq: 18 Sep 2025 11:48

Tgt Ion: 93 Resp: 6334

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 93 | 100 | | |
| 63 | 76.1 | 60.6 | 90.8 |
| 95 | 32.0 | 26.0 | 39.0 |



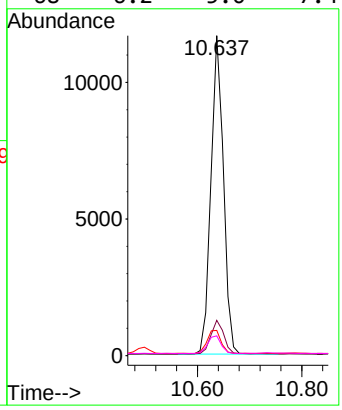


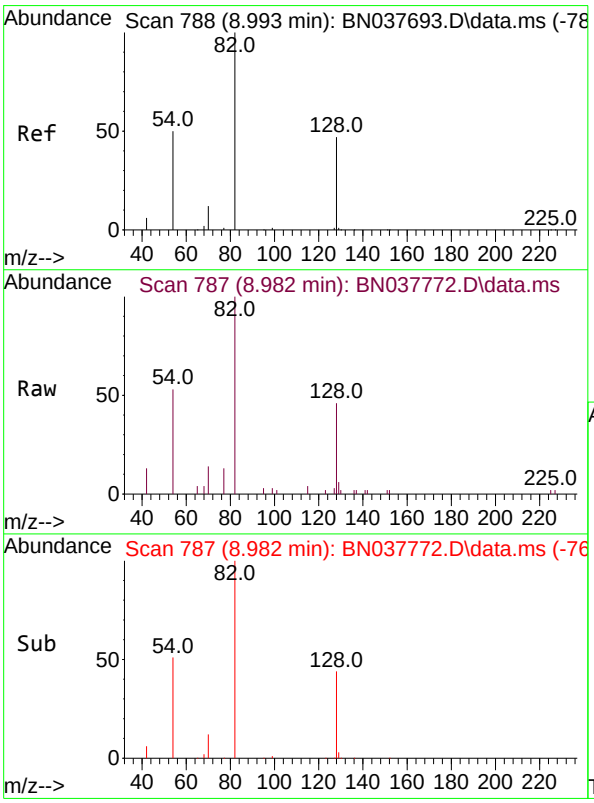

#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.637 min Scan# 94
Delta R.T. -0.011 min
Lab File: BN037772.D
Acq: 18 Sep 2025 11:48

**Instrument :**
BNA_N
**ClientSampleId :**
RE103D2-20250911MS

Tgt Ion:136 Resp: 19437

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 136 | 100 | | |
| 137 | 11.0 | 9.1 | 13.7 |
| 54 | 7.9 | 6.3 | 9.5 |
| 68 | 6.2 | 5.0 | 7.4 |

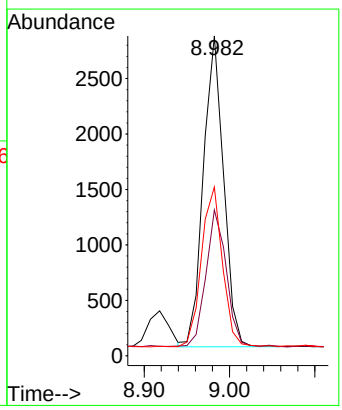


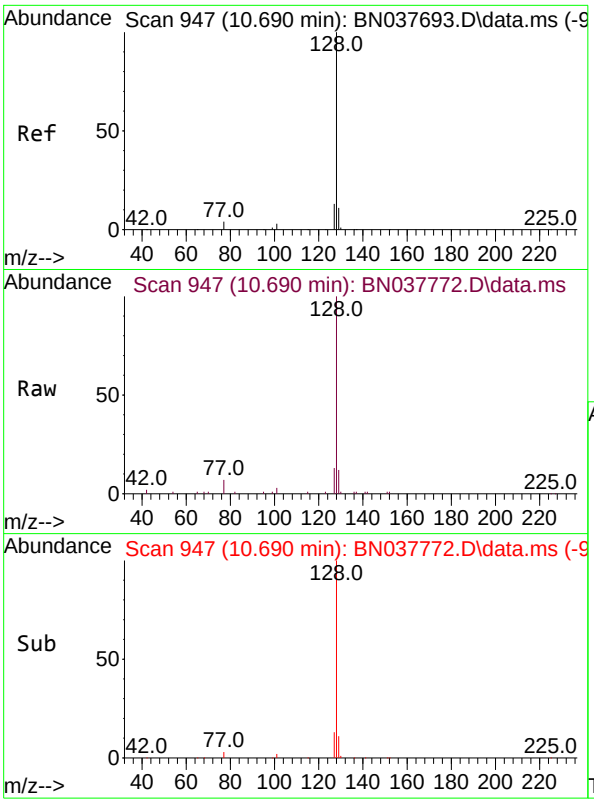




#8
Nitrobenzene-d5
Concen: 0.325 ng
RT: 8.982 min Scan# 787
Delta R.T. -0.011 min
Lab File: BN037772.D
Acq: 18 Sep 2025 11:48

Tgt Ion: 82 Resp: 4623

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 82 | 100 | | |
| 128 | 45.6 | 38.3 | 57.5 |
| 54 | 52.8 | 41.4 | 62.2 |



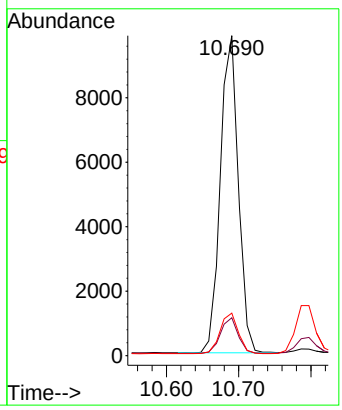


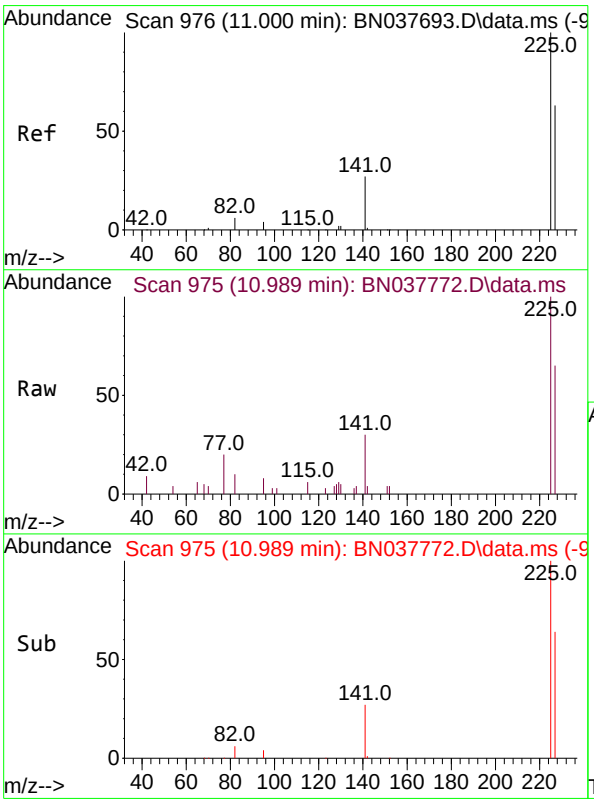

#9
Naphthalene
Concen: 0.322 ng
RT: 10.690 min Scan# 94
Delta R.T. 0.000 min
Lab File: BN037772.D
Acq: 18 Sep 2025 11:48

**Instrument :**
BNA_N
**ClientSampleId :**
RE103D2-20250911MS

Tgt Ion:128 Resp: 17098

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 128 | 100 | | |
| 129 | 11.8 | 9.1 | 13.7 |
| 127 | 13.3 | 10.9 | 16.3 |

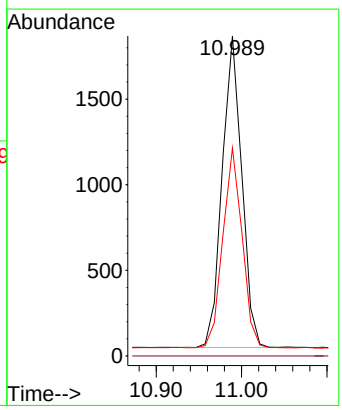


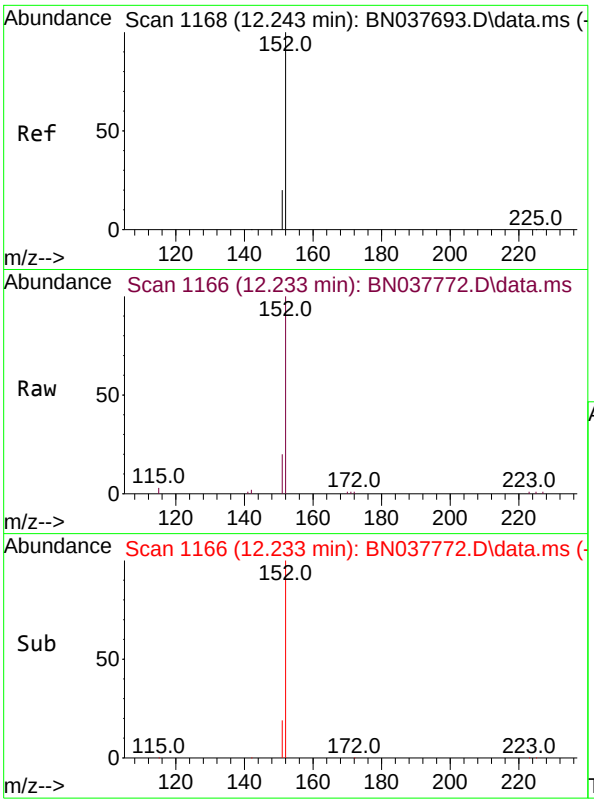




#10
Hexachlorobutadiene
Concen: 0.303 ng
RT: 10.989 min Scan# 975
Delta R.T. -0.011 min
Lab File: BN037772.D
Acq: 18 Sep 2025 11:48

Tgt Ion:225 Resp: 2914

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 225 | 100 | | |
| 223 | 0.0 | 0.0 | 0.0 |
| 227 | 63.3 | 50.9 | 76.3 |



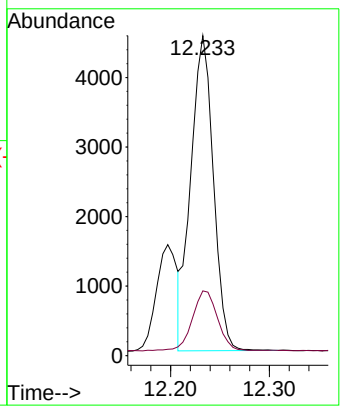


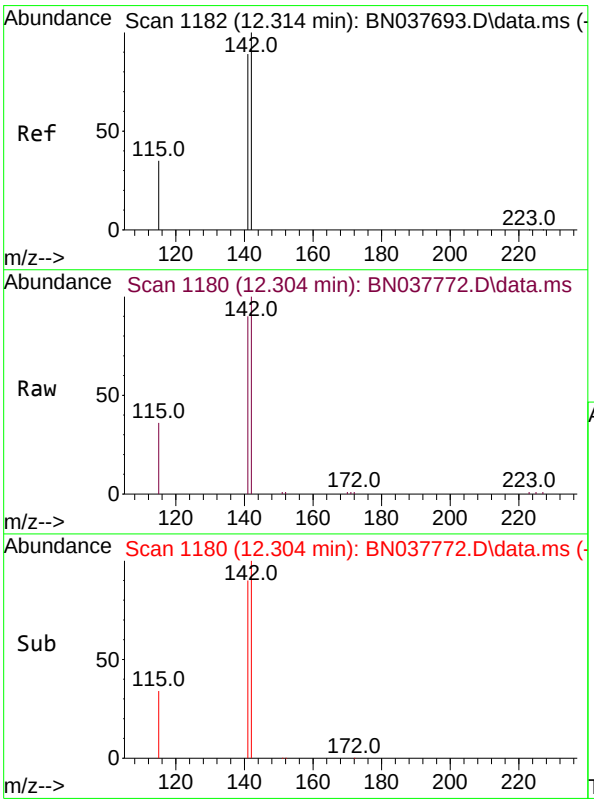

#11
2-Methylnaphthalene-d10
Concen: 0.280 ng
RT: 12.233 min Scan# 11
Delta R.T. -0.010 min
Lab File: BN037772.D
Acq: 18 Sep 2025 11:48

**Instrument :**
BNA_N
**ClientSampleId :**
RE103D2-20250911MS

Tgt Ion:152 Resp: 7201

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 151 | 21.4 | 17.0 | 25.6 |

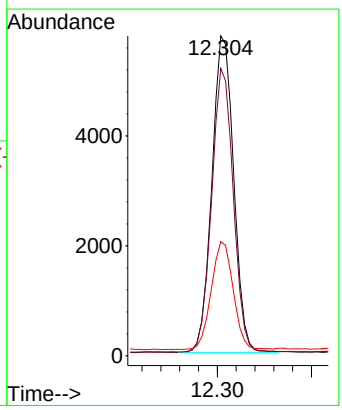


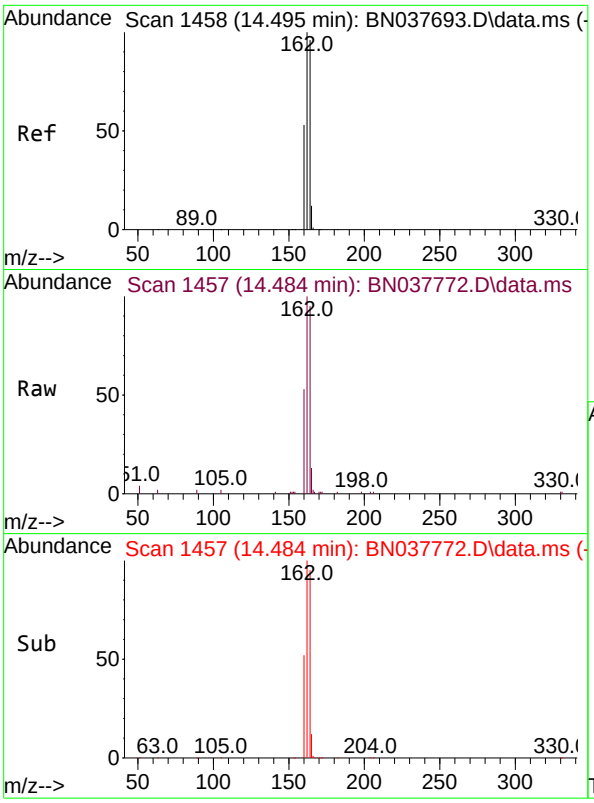




#12
2-Methylnaphthalene
Concen: 0.282 ng
RT: 12.304 min Scan# 1180
Delta R.T. -0.010 min
Lab File: BN037772.D
Acq: 18 Sep 2025 11:48

Tgt Ion:142 Resp: 9253

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 142 | 100 | | |
| 141 | 89.8 | 71.6 | 107.4 |
| 115 | 35.7 | 28.6 | 43.0 |



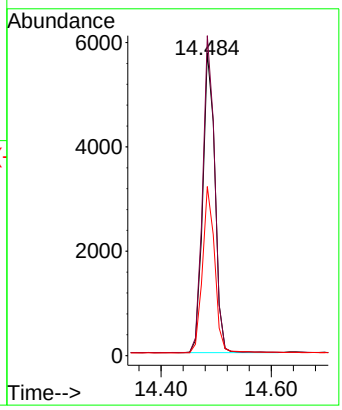


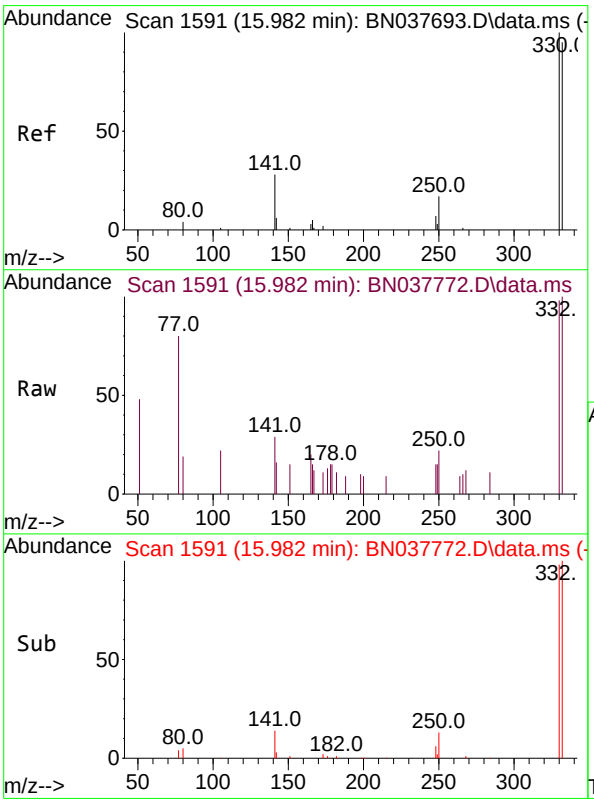

#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.484 min Scan# 14
Delta R.T. -0.011 min
Lab File: BN037772.D
Acq: 18 Sep 2025 11:48

**Instrument :**
BNA_N
**ClientSampleId :**
RE103D2-20250911MS

Tgt Ion:164 Resp: 8792

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 164 | 100 | | |
| 162 | 105.6 | 83.1 | 124.7 |
| 160 | 55.8 | 44.3 | 66.5 |

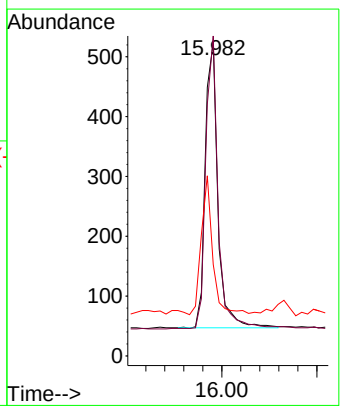


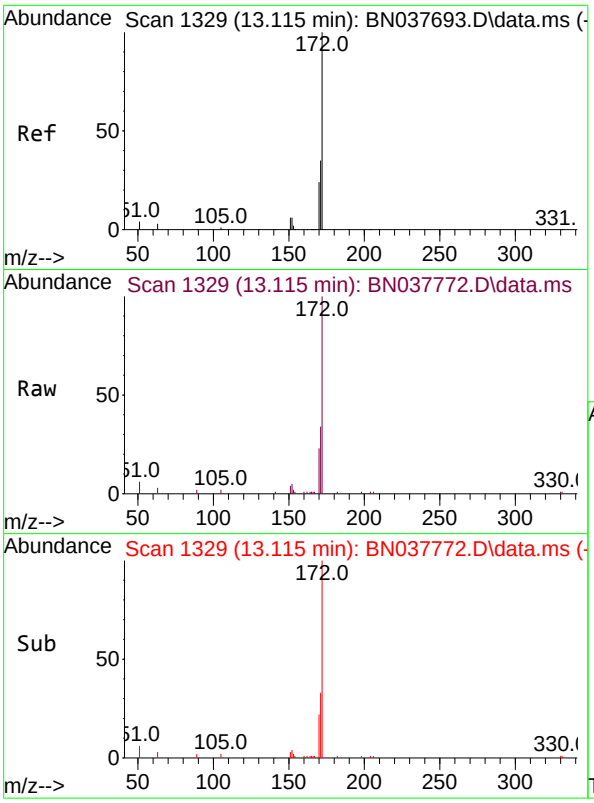




#14
2,4,6-Tribromophenol
Concen: 0.384 ng
RT: 15.982 min Scan# 1591
Delta R.T. -0.000 min
Lab File: BN037772.D
Acq: 18 Sep 2025 11:48

Tgt Ion:330 Resp: 880

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 330 | 100 | | |
| 332 | 100.5 | 75.3 | 112.9 |
| 141 | 43.6 | 35.0 | 52.4 |



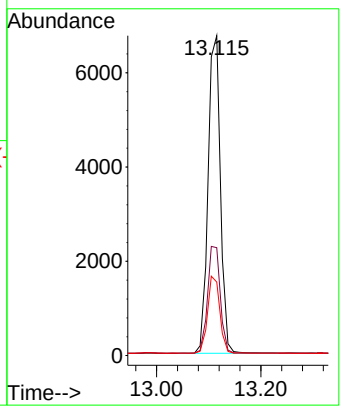


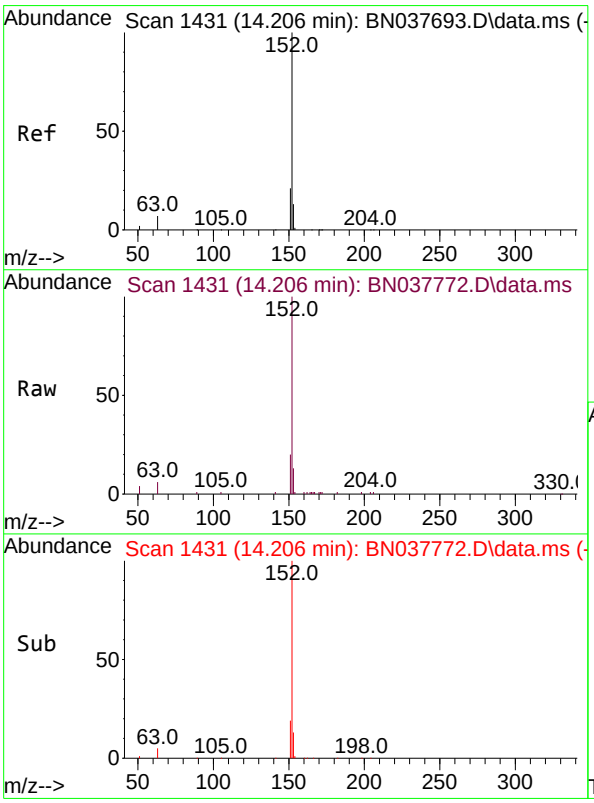

#15
2-Fluorobiphenyl
Concen: 0.303 ng
RT: 13.115 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN037772.D
Acq: 18 Sep 2025 11:48

**Instrument :**
BNA_N
**ClientSampleId :**
RE103D2-20250911MS

Tgt Ion:172 Resp: 11146

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 172 | 100 | | |
| 171 | 33.7 | 28.6 | 43.0 |
| 170 | 23.0 | 19.8 | 29.8 |

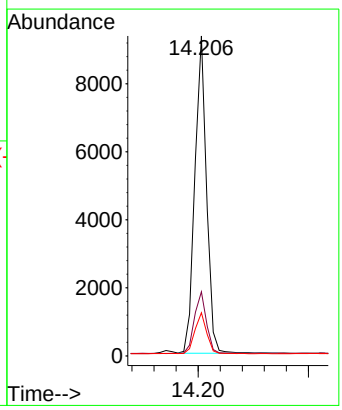


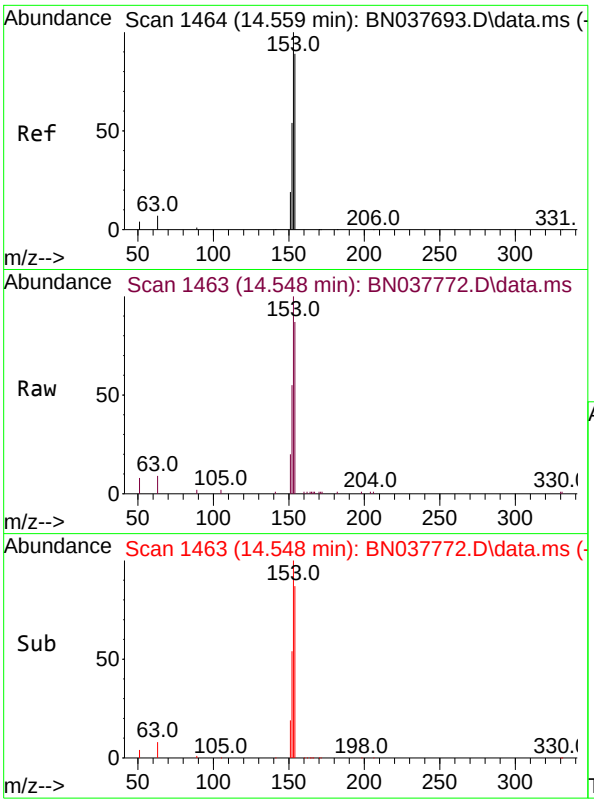




#16
Acenaphthylene
Concen: 0.339 ng
RT: 14.206 min Scan# 1431
Delta R.T. 0.000 min
Lab File: BN037772.D
Acq: 18 Sep 2025 11:48

Tgt Ion:152 Resp: 13679

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 151 | 20.1 | 16.2 | 24.2 |
| 153 | 13.2 | 10.4 | 15.6 |



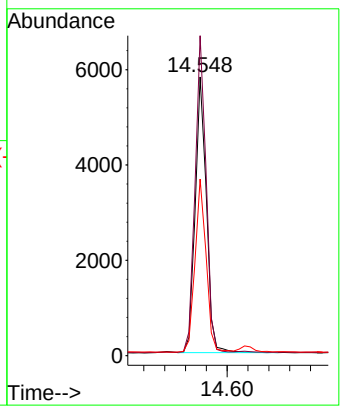


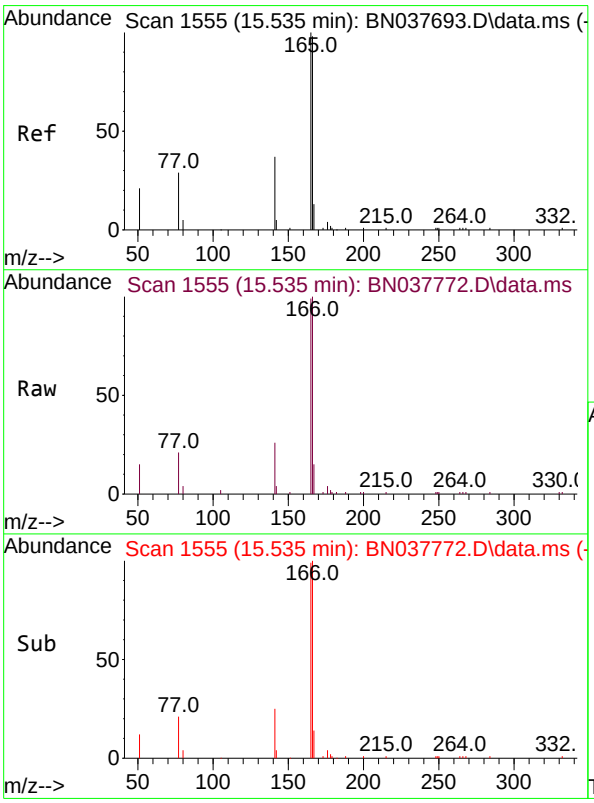

#17
Acenaphthene
Concen: 0.315 ng
RT: 14.548 min Scan# 14
Delta R.T. -0.011 min
Lab File: BN037772.D
Acq: 18 Sep 2025 11:48

**Instrument :**
BNA_N
**ClientSampleId :**
RE103D2-20250911MS

Tgt Ion:154 Resp: 8588

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 154 | 100 | | |
| 153 | 113.3 | 89.8 | 134.8 |
| 152 | 62.5 | 50.2 | 75.2 |

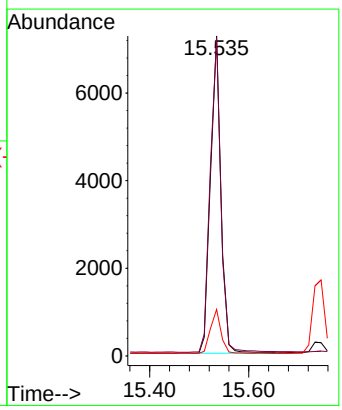


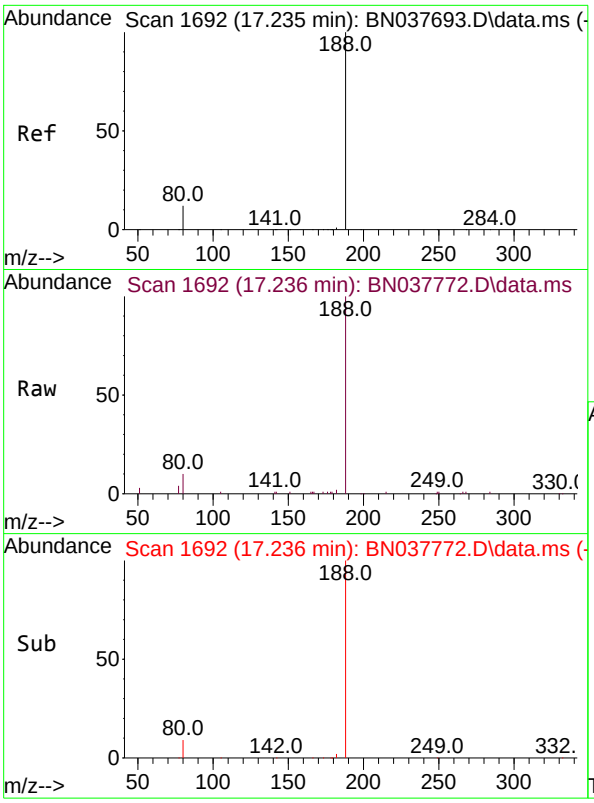




#18
Fluorene
Concen: 0.311 ng
RT: 15.535 min Scan# 1555
Delta R.T. 0.000 min
Lab File: BN037772.D
Acq: 18 Sep 2025 11:48

Tgt Ion:166 Resp: 10257

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 166 | 100 | | |
| 165 | 101.5 | 79.6 | 119.4 |
| 167 | 14.1 | 10.6 | 16.0 |



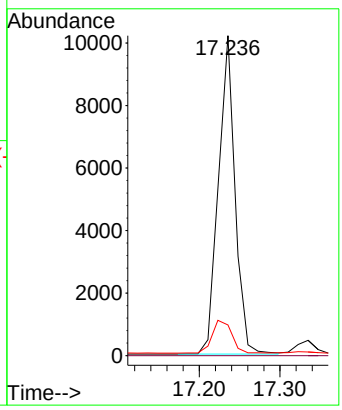


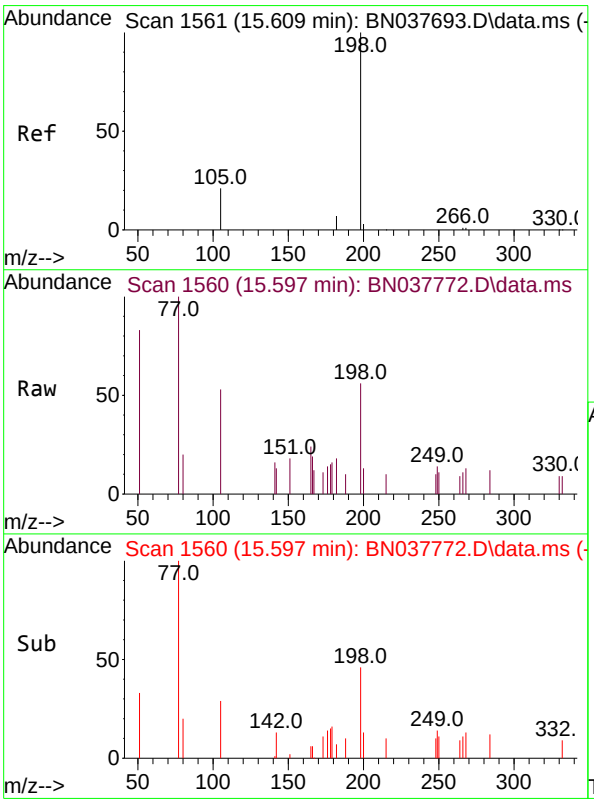

#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.236 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN037772.D
Acq: 18 Sep 2025 11:48

**Instrument :**
BNA_N
**ClientSampleId :**
RE103D2-20250911MS

Tgt Ion:188 Resp: 14560

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 188 | 100 | | |
| 94 | 0.0 | 0.0 | 0.0 |
| 80 | 9.6 | 10.6 | 15.8# |

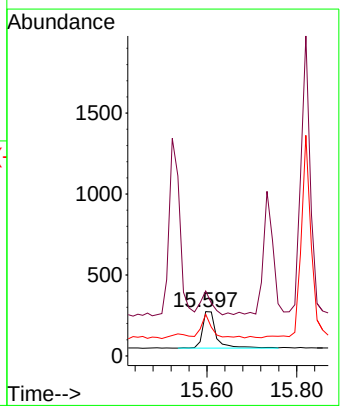


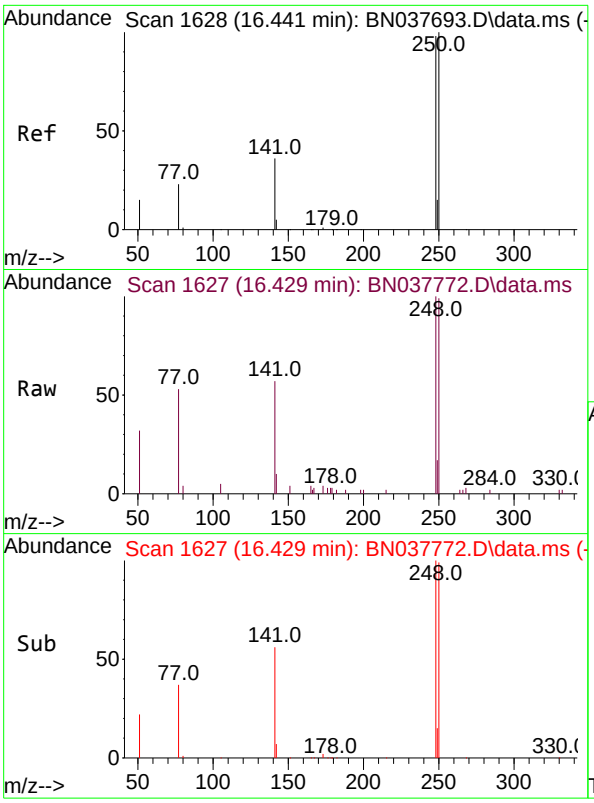




#20
4,6-Dinitro-2-methylphenol
Concen: 0.358 ng
RT: 15.597 min Scan# 1560
Delta R.T. -0.012 min
Lab File: BN037772.D
Acq: 18 Sep 2025 11:48

Tgt Ion:198 Resp: 483

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 198 | 100 | | |
| 51 | 146.4 | 95.1 | 142.7# |
| 105 | 93.8 | 53.8 | 80.6# |



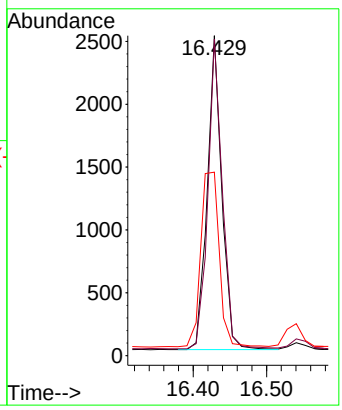


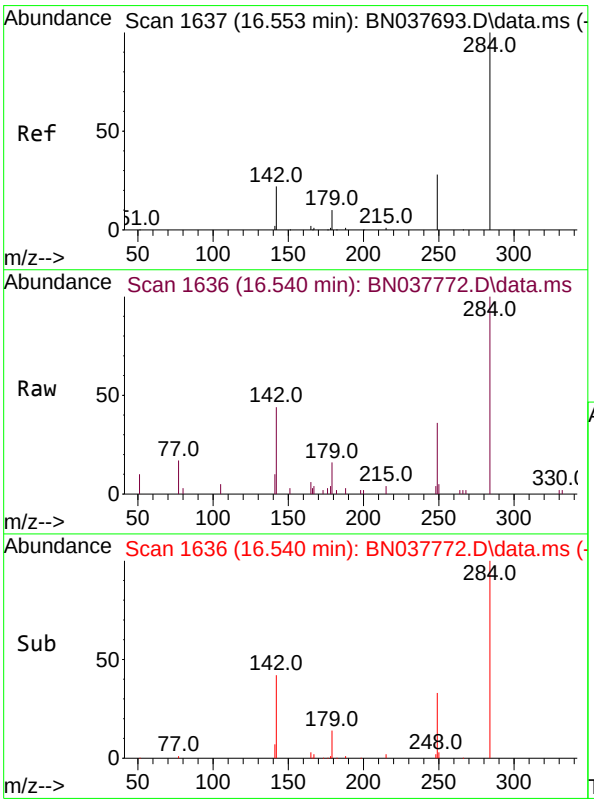

#21
4-Bromophenyl-phenylether
Concen: 0.362 ng
RT: 16.429 min Scan# 1
Delta R.T. -0.012 min
Lab File: BN037772.D
Acq: 18 Sep 2025 11:48

**Instrument :**
BNA_N
**ClientSampleId :**
RE103D2-20250911MS

Tgt Ion:248 Resp: 3439

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 248 | 100 | | |
| 250 | 98.9 | 81.5 | 122.3 |
| 141 | 57.3 | 30.8 | 46.2# |

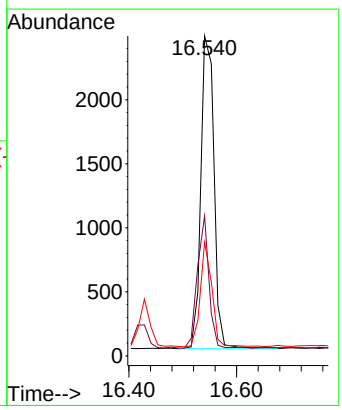


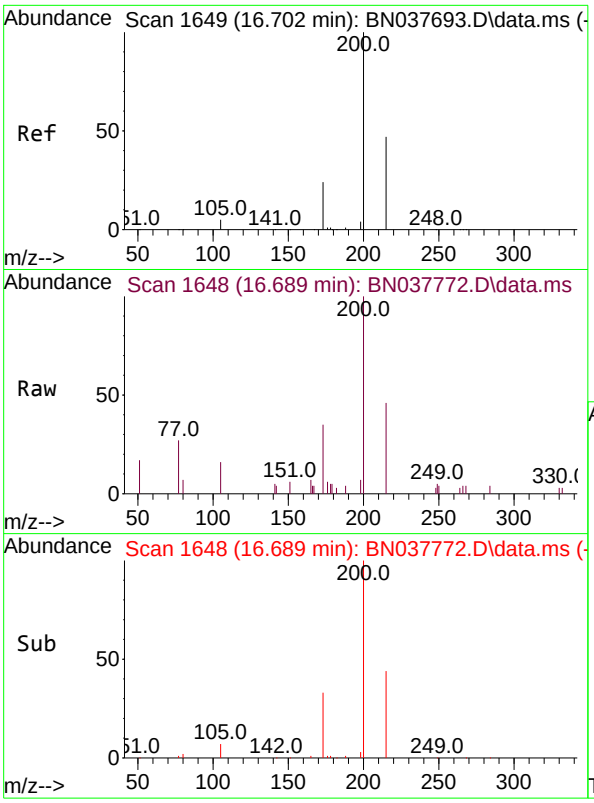




#22
Hexachlorobenzene
Concen: 0.380 ng
RT: 16.540 min Scan# 1636
Delta R.T. -0.012 min
Lab File: BN037772.D
Acq: 18 Sep 2025 11:48

Tgt Ion:284 Resp: 4153

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 284 | 100 | | |
| 142 | 37.0 | 30.9 | 46.3 |
| 249 | 29.4 | 24.8 | 37.2 |



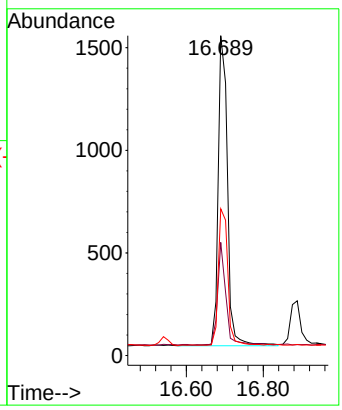


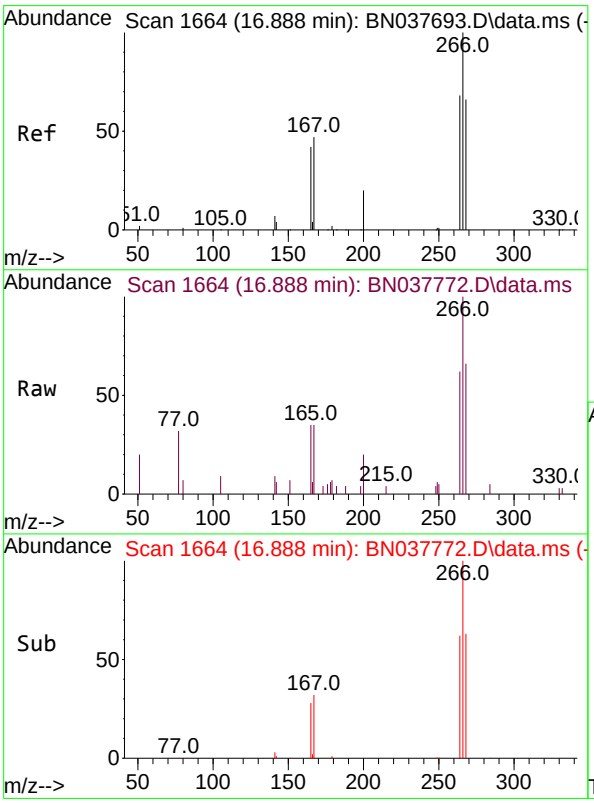

#23
Atrazine
Concen: 0.417 ng
RT: 16.689 min Scan# 1
Delta R.T. -0.012 min
Lab File: BN037772.D
Acq: 18 Sep 2025 11:48

**Instrument :**
BNA_N
**ClientSampleId :**
RE103D2-20250911MS

Tgt Ion:200 Resp: 2516

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 200 | 100 | | |
| 173 | 35.3 | 21.4 | 32.2# |
| 215 | 45.9 | 39.2 | 58.8 |

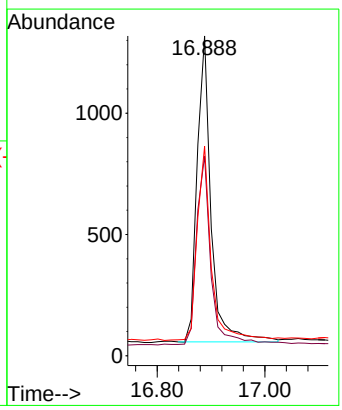


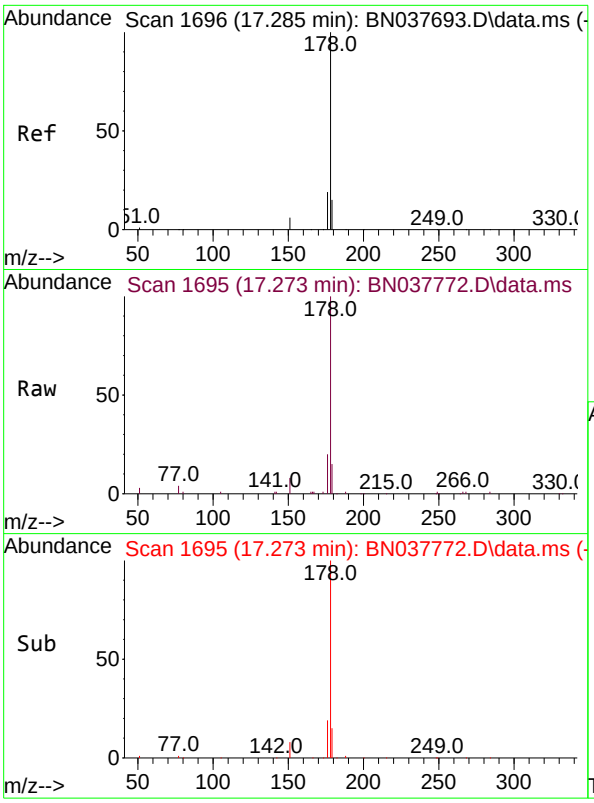




#24
Pentachlorophenol
Concen: 0.712 ng
RT: 16.888 min Scan# 1664
Delta R.T. 0.000 min
Lab File: BN037772.D
Acq: 18 Sep 2025 11:48

Tgt Ion:266 Resp: 2259

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 266 | 100 | | |
| 264 | 64.1 | 51.6 | 77.4 |
| 268 | 62.9 | 53.2 | 79.8 |



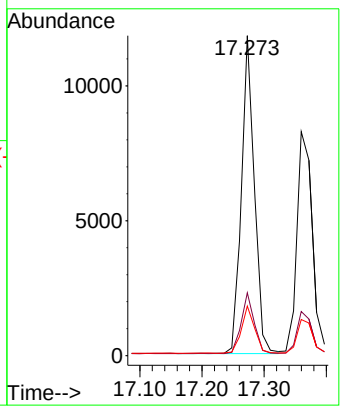


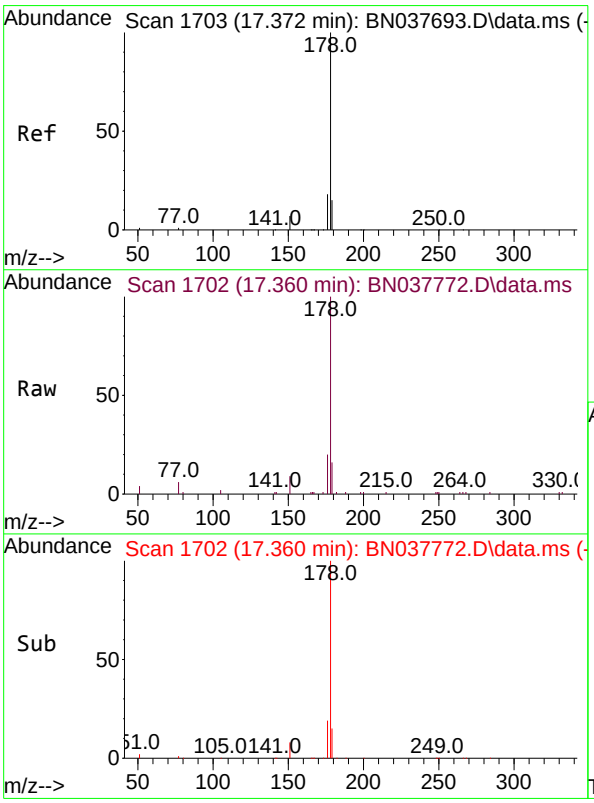

#25
Phenanthrene
Concen: 0.372 ng
RT: 17.273 min Scan# 1
Delta R.T. -0.012 min
Lab File: BN037772.D
Acq: 18 Sep 2025 11:48

**Instrument :**
BNA_N
**ClientSampleId :**
RE103D2-20250911MS

Tgt Ion:178 Resp: 17041

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 178 | 100 | | |
| 176 | 19.2 | 15.3 | 22.9 |
| 179 | 15.2 | 12.2 | 18.2 |

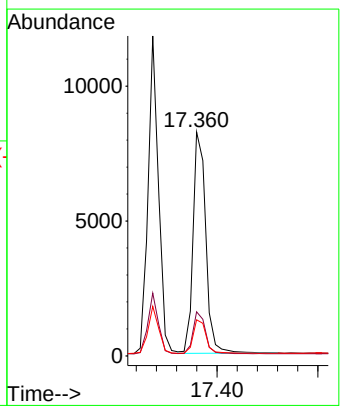


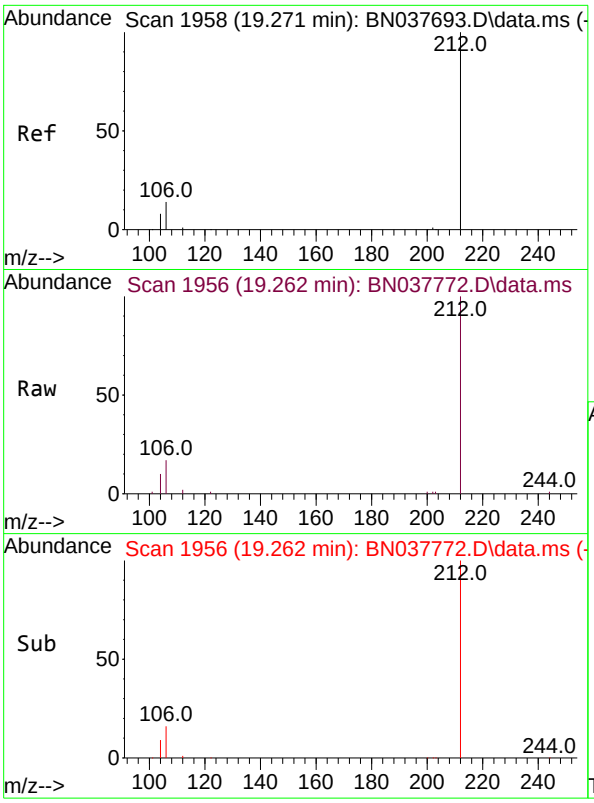




#26
Anthracene
Concen: 0.354 ng
RT: 17.360 min Scan# 1702
Delta R.T. -0.012 min
Lab File: BN037772.D
Acq: 18 Sep 2025 11:48

Tgt Ion:178 Resp: 14357

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 178 | 100 | | |
| 176 | 18.4 | 14.6 | 22.0 |
| 179 | 15.2 | 12.2 | 18.4 |



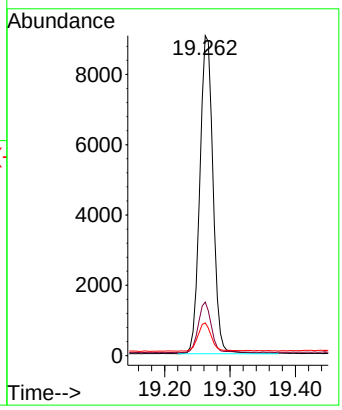


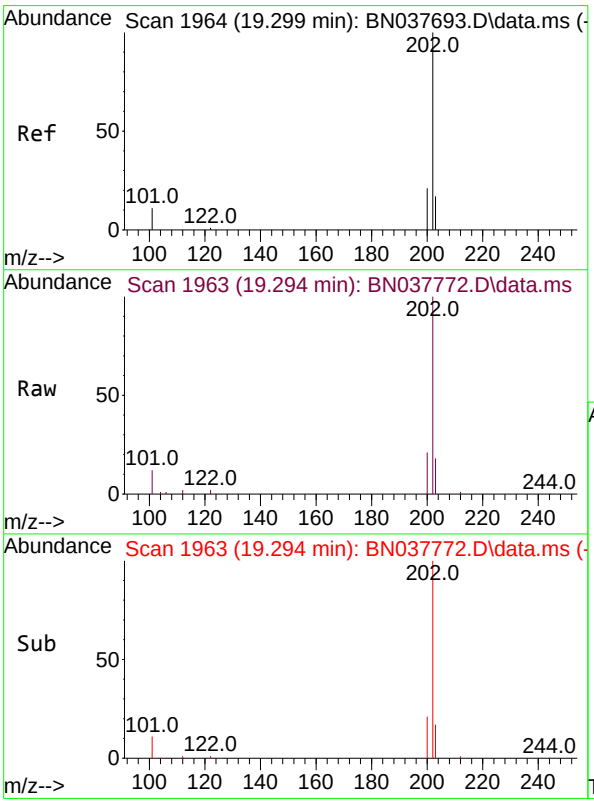

#27
Fluoranthene-d10
Concen: 0.347 ng
RT: 19.262 min Scan# 19
Delta R.T. -0.009 min
Lab File: BN037772.D
Acq: 18 Sep 2025 11:48

**Instrument :**
BNA_N
**ClientSampleId :**
RE103D2-20250911MS

Tgt Ion:212 Resp: 12673

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 212 | 100 | | |
| 106 | 15.9 | 12.2 | 18.2 |
| 104 | 9.1 | 6.9 | 10.3 |

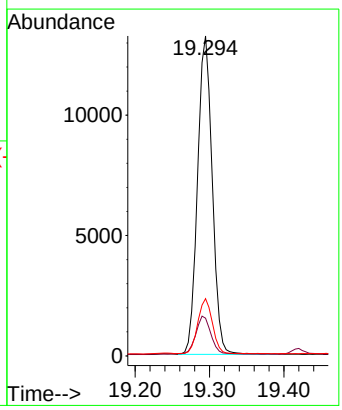


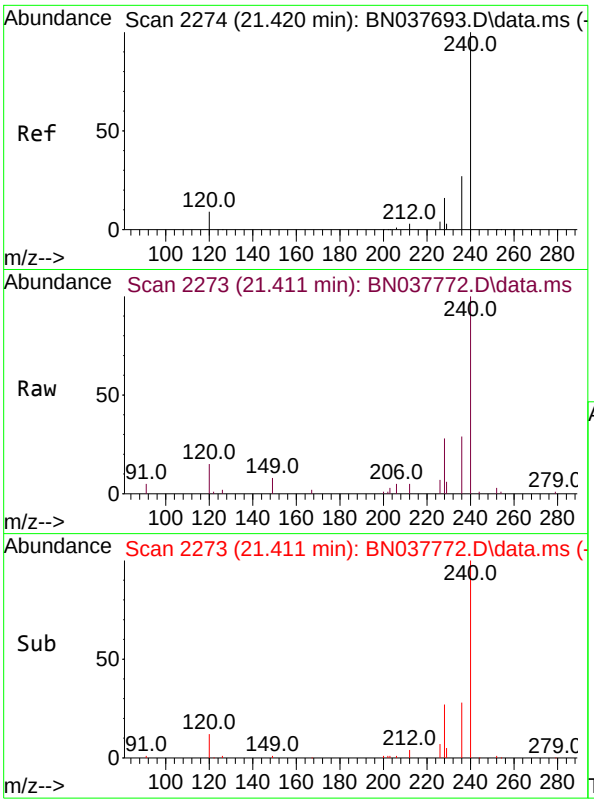




#28
Fluoranthene
Concen: 0.360 ng
RT: 19.294 min Scan# 1963
Delta R.T. -0.005 min
Lab File: BN037772.D
Acq: 18 Sep 2025 11:48

Tgt Ion:202 Resp: 18098

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 202 | 100 | | |
| 101 | 12.7 | 9.3 | 13.9 |
| 203 | 17.0 | 13.7 | 20.5 |



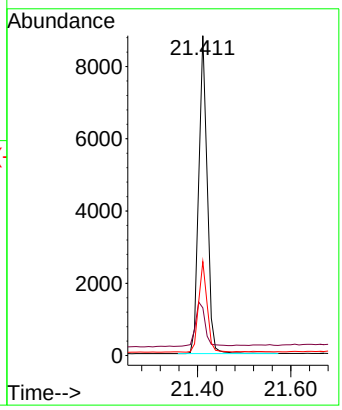


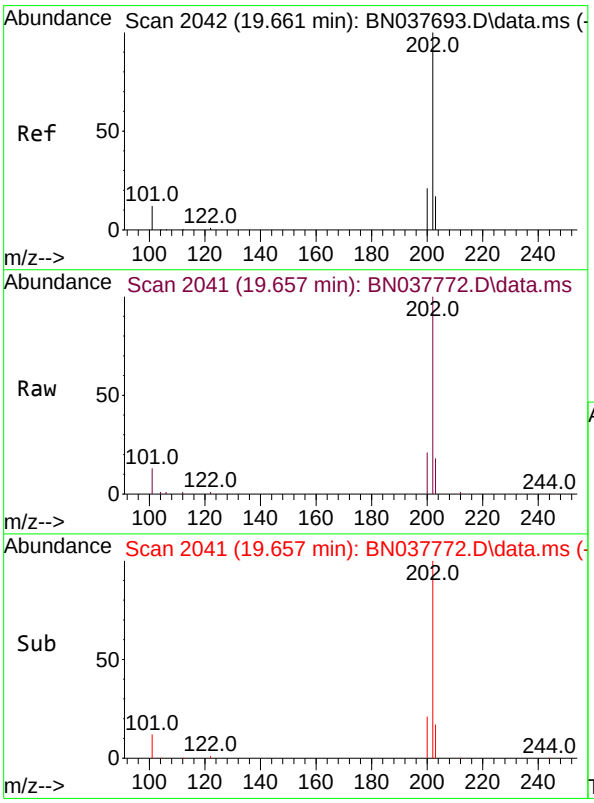

#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.411 min Scan# 21
Delta R.T. -0.009 min
Lab File: BN037772.D
Acq: 18 Sep 2025 11:48

**Instrument :**
BNA_N
**ClientSampleId :**
RE103D2-20250911MS

Tgt Ion:240 Resp: 11077

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 240 | 100 | | |
| 120 | 14.9 | 9.2 | 13.8# |
| 236 | 29.4 | 22.6 | 33.8 |

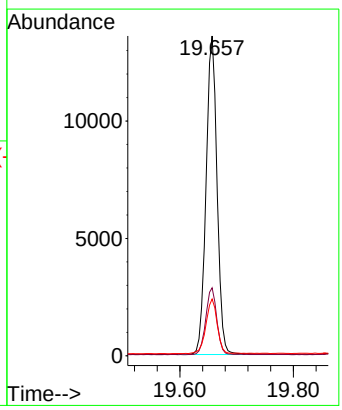


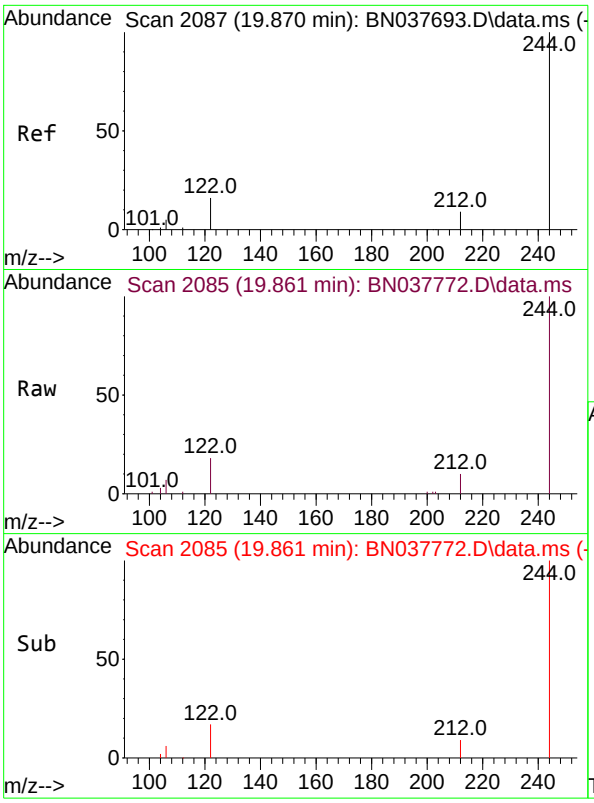




#30
Pyrene
Concen: 0.420 ng
RT: 19.657 min Scan# 2041
Delta R.T. -0.005 min
Lab File: BN037772.D
Acq: 18 Sep 2025 11:48

Tgt Ion:202 Resp: 18207

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 202 | 100 | | |
| 200 | 21.0 | 16.8 | 25.2 |
| 203 | 17.6 | 14.3 | 21.5 |



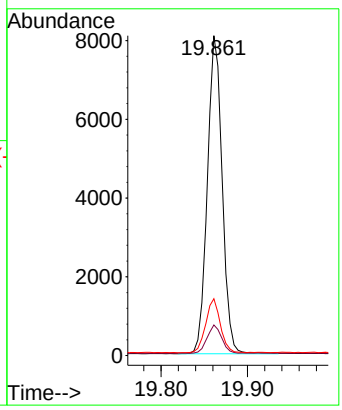


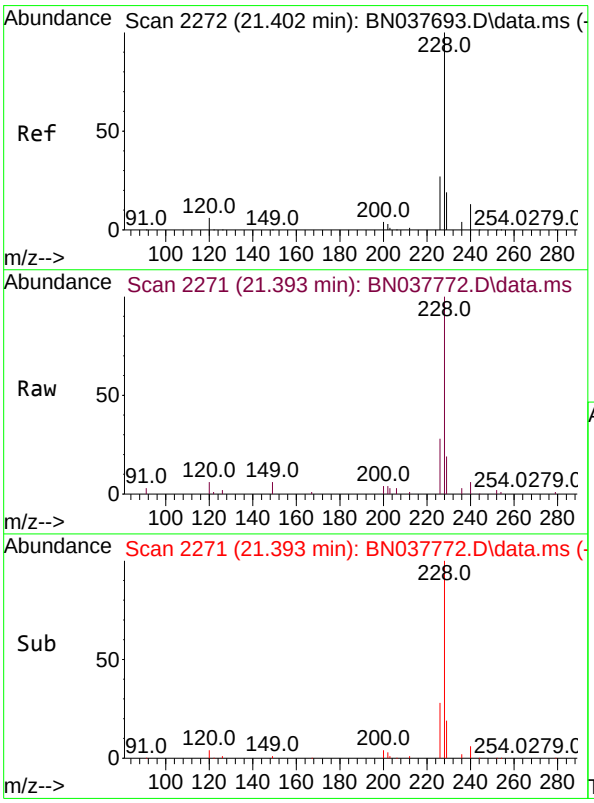

#31
Terphenyl-d14
Concen: 0.428 ng
RT: 19.861 min Scan# 2
Delta R.T. -0.009 min
Lab File: BN037772.D
Acq: 18 Sep 2025 11:48

**Instrument :**
BNA_N
**ClientSampleId :**
RE103D2-20250911MS

Tgt Ion:244 Resp: 9630

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 244 | 100 | | |
| 212 | 9.6 | 7.5 | 11.3 |
| 122 | 17.8 | 13.2 | 19.8 |

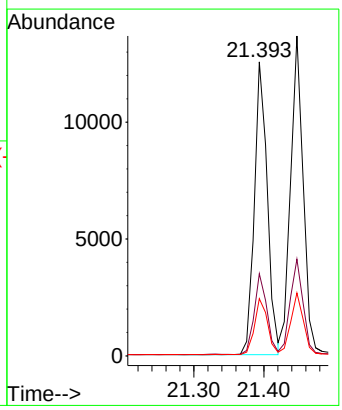


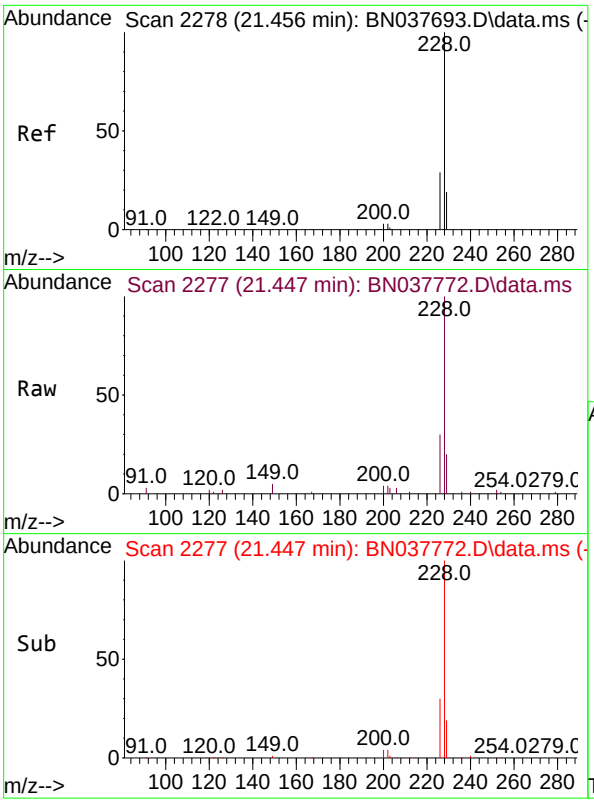




#32
Benzo(a)anthracene
Concen: 0.416 ng
RT: 21.393 min Scan# 2271
Delta R.T. -0.009 min
Lab File: BN037772.D
Acq: 18 Sep 2025 11:48

Tgt Ion:228 Resp: 16075

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 228 | 100 | | |
| 226 | 28.0 | 22.2 | 33.2 |
| 229 | 19.5 | 15.8 | 23.6 |



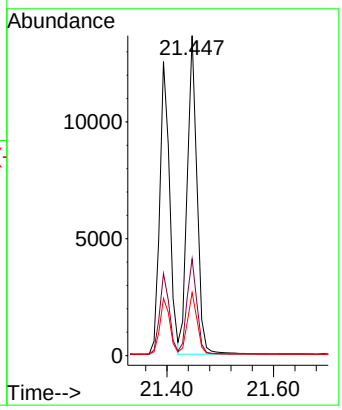


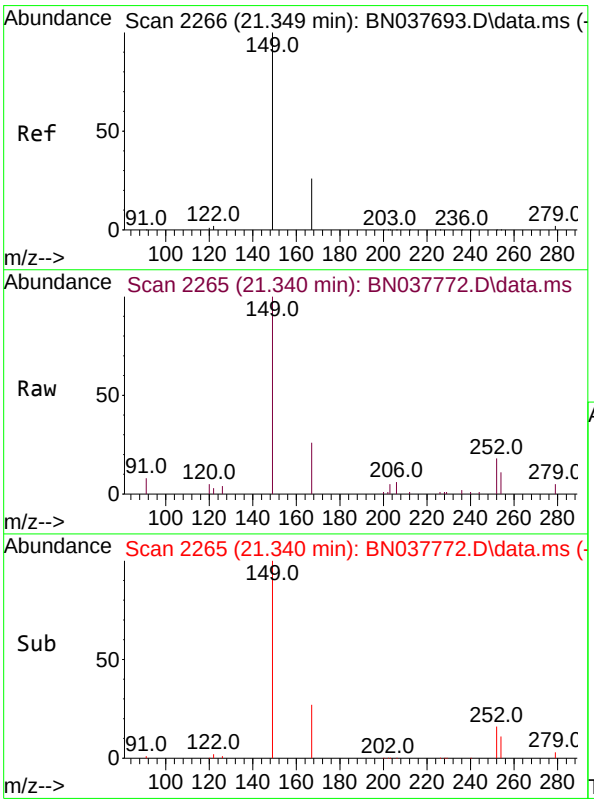

#33
Chrysene
Concen: 0.419 ng
RT: 21.447 min Scan# 2
Delta R.T. -0.009 min
Lab File: BN037772.D
Acq: 18 Sep 2025 11:48

**Instrument :**
BNA_N
**ClientSampleId :**
RE103D2-20250911MS

Tgt Ion:228 Resp: 17366

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 228 | 100 | | |
| 226 | 30.2 | 23.5 | 35.3 |
| 229 | 19.7 | 15.9 | 23.9 |

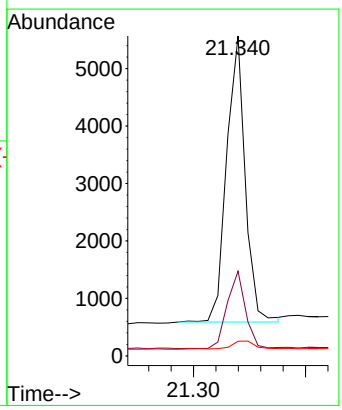


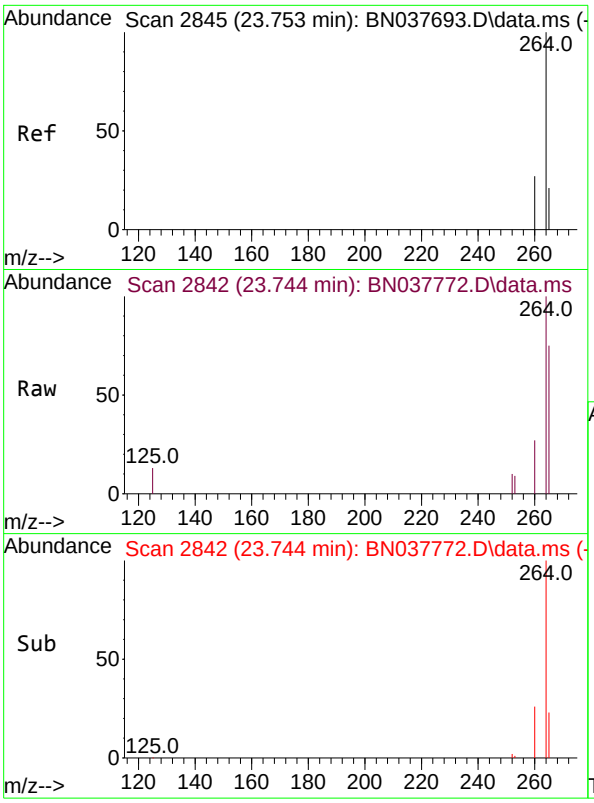




#34
Bis(2-ethylhexyl)phthalate
Concen: 0.500 ng
RT: 21.340 min Scan# 2265
Delta R.T. -0.009 min
Lab File: BN037772.D
Acq: 18 Sep 2025 11:48

Tgt Ion:149 Resp: 5730

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 149 | 100 | | |
| 167 | 26.9 | 20.8 | 31.2 |
| 279 | 4.0 | 3.3 | 4.9 |



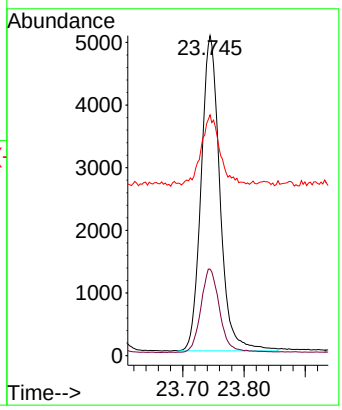


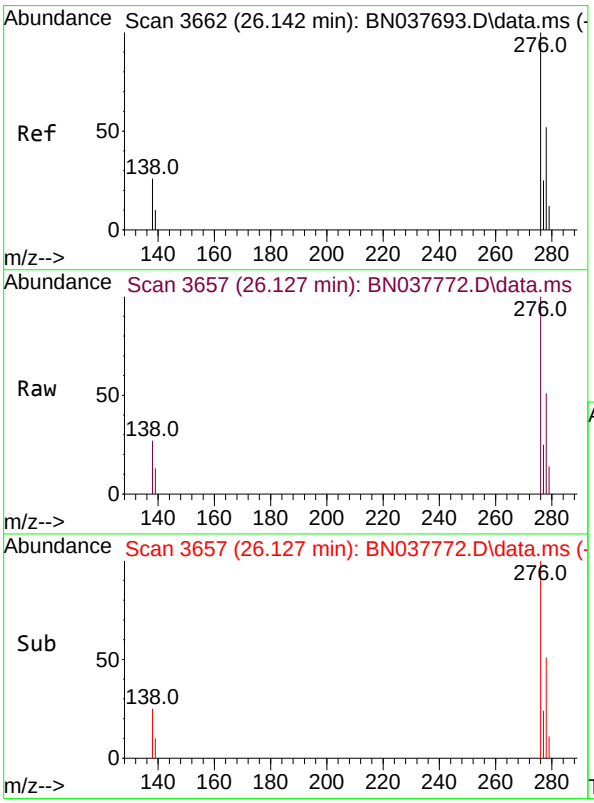

#35
Perylene-d12
Concen: 0.400 ng
RT: 23.744 min Scan# 2
Delta R.T. -0.009 min
Lab File: BN037772.D
Acq: 18 Sep 2025 11:48

**Instrument :**
BNA_N
**ClientSampleId :**
RE103D2-20250911MS

Tgt Ion:264 Resp: 10712

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 264 | 100 | | |
| 260 | 27.0 | 21.8 | 32.8 |
| 265 | 75.2 | 39.4 | 59.2# |

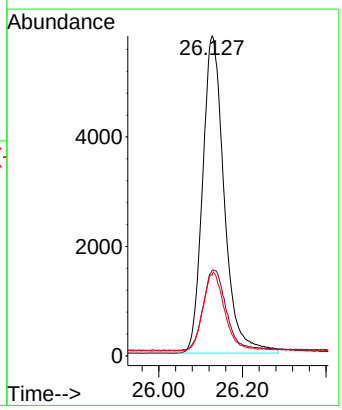


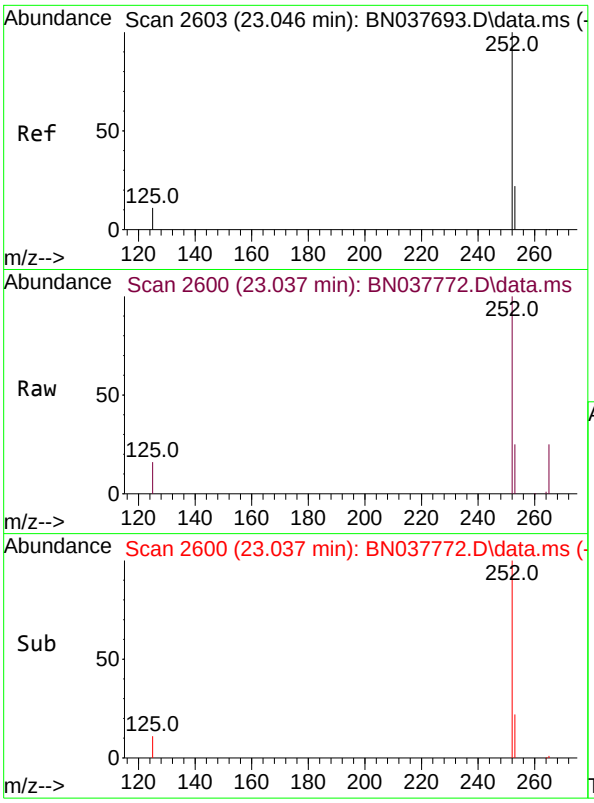




#36
Indeno(1,2,3-cd)pyrene
Concen: 0.462 ng
RT: 26.127 min Scan# 3657
Delta R.T. -0.015 min
Lab File: BN037772.D
Acq: 18 Sep 2025 11:48

Tgt Ion:276 Resp: 20796

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 276 | 100 | | |
| 138 | 26.7 | 21.9 | 32.9 |
| 277 | 24.7 | 20.1 | 30.1 |



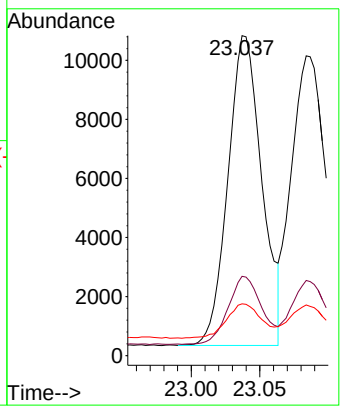


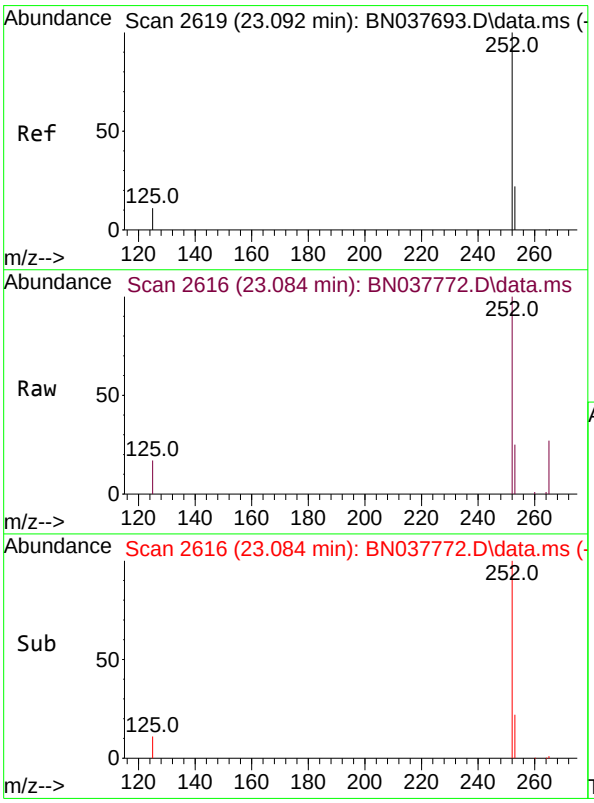

#37
Benzo(b)fluoranthene
Concen: 0.428 ng
RT: 23.037 min Scan# 2
Delta R.T. -0.009 min
Lab File: BN037772.D
Acq: 18 Sep 2025 11:48

**Instrument :**
BNA_N
**ClientSampleId :**
RE103D2-20250911MS

Tgt Ion:252 Resp: 18047

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 24.8 | 19.4 | 29.2 |
| 125 | 16.2 | 11.2 | 16.8 |

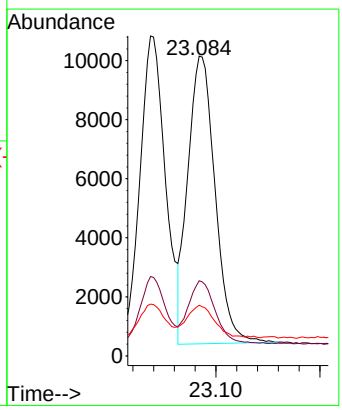


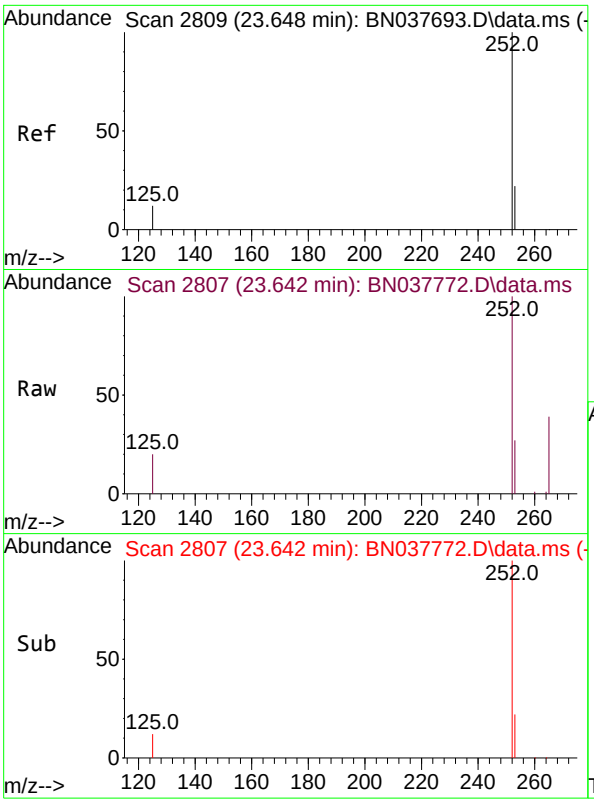




#38
Benzo(k)fluoranthene
Concen: 0.413 ng
RT: 23.084 min Scan# 2616
Delta R.T. -0.009 min
Lab File: BN037772.D
Acq: 18 Sep 2025 11:48

Tgt Ion:252 Resp: 17770

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 25.1 | 19.4 | 29.0 |
| 125 | 16.9 | 11.6 | 17.4 |



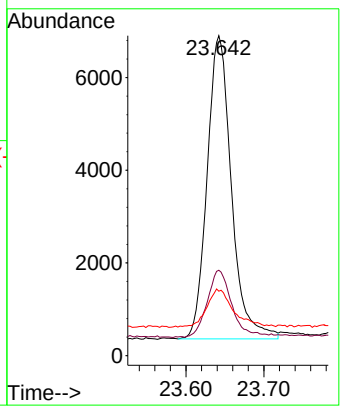


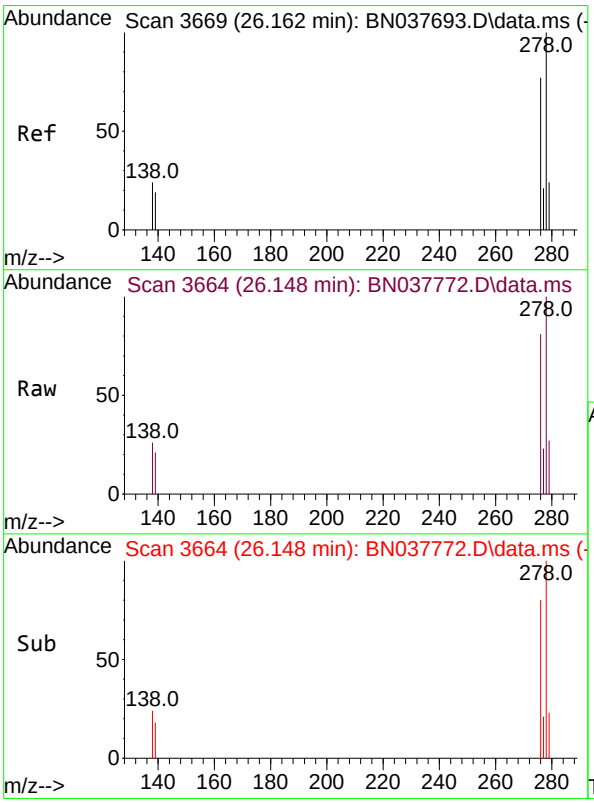

#39
Benzo(a)pyrene
Concen: 0.420 ng
RT: 23.642 min Scan# 28
Delta R.T. -0.006 min
Lab File: BN037772.D
Acq: 18 Sep 2025 11:48

**Instrument :**
BNA_N
**ClientSampleId :**
RE103D2-20250911MS

Tgt Ion:252 Resp: 14195

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 26.7 | 20.8 | 31.2 |
| 125 | 20.1 | 13.9 | 20.9 |

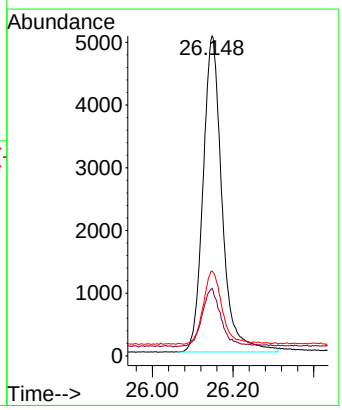


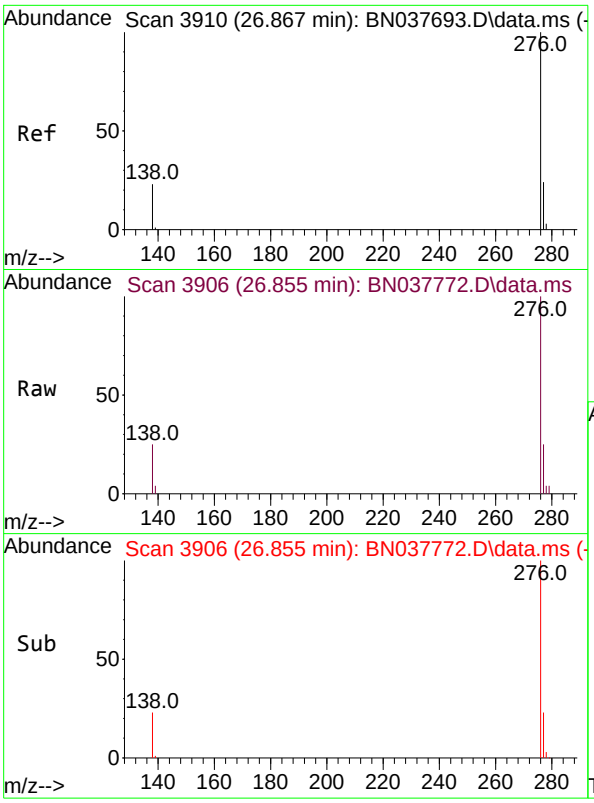




#40
Dibenzo(a,h)anthracene
Concen: 0.458 ng
RT: 26.148 min Scan# 3664
Delta R.T. -0.015 min
Lab File: BN037772.D
Acq: 18 Sep 2025 11:48

Tgt Ion:278 Resp: 16460

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 278 | 100 | | |
| 139 | 21.1 | 17.8 | 26.6 |
| 279 | 26.5 | 22.0 | 33.0 |



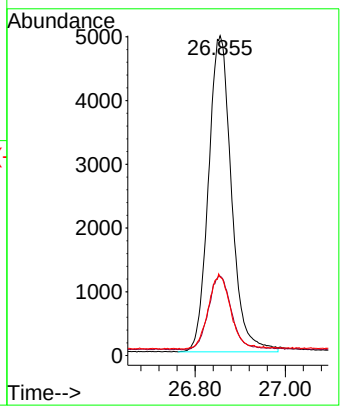



#41
Benzo(g,h,i)perylene
Concen: 0.435 ng
RT: 26.855 min Scan# 3
Delta R.T. -0.012 min
Lab File: BN037772.D
Acq: 18 Sep 2025 11:48

**Instrument :**
BNA_N
**ClientSampleId :**
RE103D2-20250911MS

Tgt Ion:276 Resp: 17542

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 276 | 100 | | |
| 277 | 24.8 | 20.6 | 31.0 |
| 138 | 24.5 | 20.2 | 30.2 |



Raw Data: **BN037744.D**

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

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | AECOM Technical Services, Inc. | Date Collected: | 09/09/25 |
| Project: | NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258 | Date Received: | 09/12/25 |
| Client Sample ID: | MW203D2-20250909MSD | SDG No.: | Q3095 |
| Lab Sample ID: | Q3095-07MSD | Matrix: | Water |
| Analytical Method: | SW8270ESIM | % Solid: | 0 |
| Sample Wt/Vol: | 1000 Units: mL | Final Vol: | 1000 uL |
| Soil Aliquot Vol: | uL | Test: | SVOC-SIMGroup1 |
| Extraction Type : | Decanted : N | Level : | LOW |
| Injection Volume : | GPC Factor : 1.0 | GPC Cleanup : | N PH : |
| Prep Method : | | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| BN037744.D | 1 | 09/15/25 10:15 | 09/17/25 13:59 | PB169692 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOD | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | | |
| 123-91-1 | 1,4-Dioxane | 0.96 | | 0.070 | 0.20 | 0.20 | ug/L |
| **SURROGATES** | | | | | | | |
| 7297-45-2 | 2-Methylnaphthalene-d10 | 0.30 | | 30 - 150 | | 74% | SPK: 0.4 |
| 93951-69-0 | Fluoranthene-d10 | 0.33 | | 30 - 150 | | 83% | SPK: 0.4 |
| 4165-60-0 | Nitrobenzene-d5 | 0.30 | | 55 - 111 | | 75% | SPK: 0.4 |
| 321-60-8 | 2-Fluorobiphenyl | 0.32 | | 53 - 106 | | 79% | SPK: 0.4 |
| 1718-51-0 | Terphenyl-d14 | 0.40 | | 58 - 132 | | 99% | SPK: 0.4 |
| **INTERNAL STANDARDS** | | | | | | | |
| 3855-82-1 | 1,4-Dichlorobenzene-d4 | 7570 | 7.847 | | | | |
| 1146-65-2 | Naphthalene-d8 | 20900 | 10.648 | | | | |
| 15067-26-2 | Acenaphthene-d10 | 9820 | 14.494 | | | | |
| 1517-22-2 | Phenanthrene-d10 | 17000 | 17.235 | | | | |
| 1719-03-5 | Chrysene-d12 | 14300 | 21.42 | | | | |
| 1520-96-3 | Perylene-d12 | 14000 | 23.756 | | | | |

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\BN091725\
Data File : BN037744.D
Acq On : 17 Sep 2025 13:59
Operator : RC/JU
Sample : Q3095-07MSD
Misc :
ALS Vial : 6 Sample Multiplier: 1

**Instrument :**
BNA_N
**ClientSampleId :**
MW203D2-20250909MSD

Quant Time: Sep 17 14:31:09 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN091125.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Sep 11 14:20:01 2025
Response via : Initial Calibration

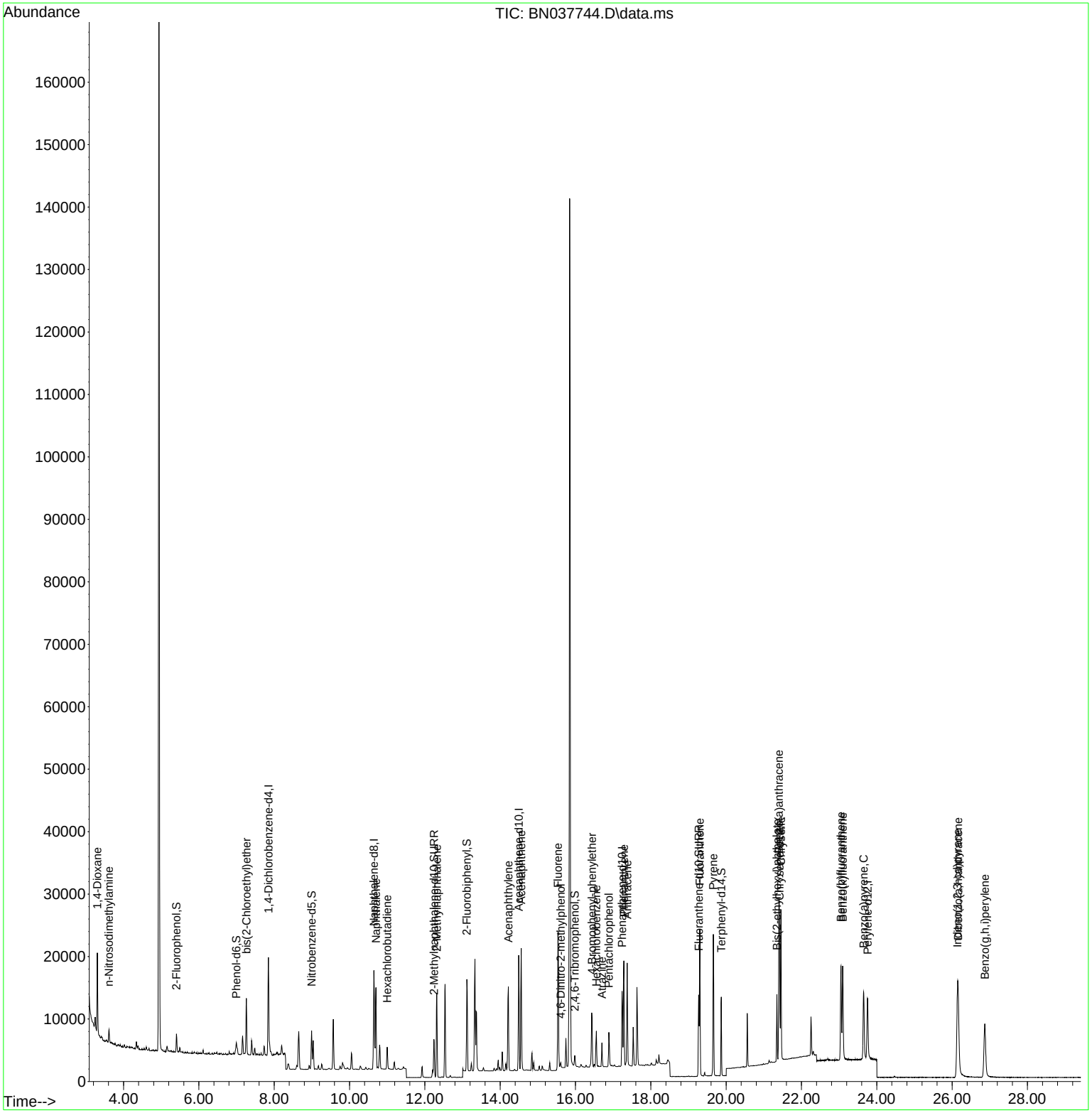
| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| Internal Standards | | | | | | | |
| 1) 1,4-Dichlorobenzene-d4 | 7.847 | 152 | 7569 | 0.400 | ng | | 0.00 |
| 7) Naphthalene-d8 | 10.648 | 136 | 20880 | 0.400 | ng | | 0.00 |
| 13) Acenaphthene-d10 | 14.494 | 164 | 9823 | 0.400 | ng | | 0.00 |
| 19) Phenanthrene-d10 | 17.235 | 188 | 16954 | 0.400 | ng | | 0.00 |
| 29) Chrysene-d12 | 21.420 | 240 | 14253 | 0.400 | ng | | 0.00 |
| 35) Perylene-d12 | 23.756 | 264 | 13967 | 0.400 | ng | | 0.00 |
| System Monitoring Compounds | | | | | | | |
| 4) 2-Fluorophenol | 5.406 | 112 | 2212 | 0.127 | ng | | 0.00 |
| 5) Phenol-d6 | 6.995 | 99 | 1709 | 0.076 | ng | | 0.00 |
| 8) Nitrobenzene-d5 | 8.993 | 82 | 4607 | 0.302 | ng | | 0.00 |
| 11) 2-Methylnaphthalene-d10 | 12.243 | 152 | 8165 | 0.295 | ng | | 0.00 |
| 14) 2,4,6-Tribromophenol | 15.982 | 330 | 1013 | 0.395 | ng | | 0.00 |
| 15) 2-Fluorobiphenyl | 13.115 | 172 | 13067 | 0.318 | ng | | 0.00 |
| 27) Fluoranthene-d10 | 19.271 | 212 | 14031 | 0.330 | ng | | 0.00 |
| 31) Terphenyl-d14 | 19.870 | 244 | 11475 | 0.397 | ng | | 0.00 |
| Target Compounds | | | | | | | Qvalue |
| 2) 1,4-Dioxane | 3.304 | 88 | 7552 | 0.958 | ng | | 95 |
| 3) n-Nitrosodimethylamine | 3.608 | 42 | 1209 | 0.117 | ng | # | 81 |
| 6) bis(2-Chloroethyl)ether | 7.262 | 93 | 6223 | 0.309 | ng | | 98 |
| 9) Naphthalene | 10.701 | 128 | 16698 | 0.293 | ng | | 100 |
| 10) Hexachlorobutadiene | 11.000 | 225 | 2575 | 0.249 | ng | # | 99 |
| 12) 2-Methylnaphthalene | 12.319 | 142 | 9478 | 0.268 | ng | | 97 |
| 16) Acenaphthylene | 14.217 | 152 | 15433 | 0.343 | ng | | 99 |
| 17) Acenaphthene | 14.559 | 154 | 9606 | 0.315 | ng | | 99 |
| 18) Fluorene | 15.535 | 166 | 11771 | 0.319 | ng | | 99 |
| 20) 4,6-Dinitro-2-methylph... | 15.609 | 198 | 553 | 0.352 | ng | | 86 |
| 21) 4-Bromophenyl-phenylether | 16.441 | 248 | 3888 | 0.352 | ng | | 99 |
| 22) Hexachlorobenzene | 16.553 | 284 | 4480 | 0.352 | ng | | 96 |
| 23) Atrazine | 16.702 | 200 | 2705 | 0.385 | ng | | 96 |
| 24) Pentachlorophenol | 16.888 | 266 | 2781 | 0.753 | ng | | 98 |
| 25) Phenanthrene | 17.285 | 178 | 18751 | 0.351 | ng | | 99 |
| 26) Anthracene | 17.372 | 178 | 16950 | 0.358 | ng | | 99 |
| 28) Fluoranthene | 19.299 | 202 | 20168 | 0.345 | ng | | 99 |
| 30) Pyrene | 19.661 | 202 | 20353 | 0.365 | ng | | 100 |
| 32) Benzo(a)anthracene | 21.402 | 228 | 18881 | 0.380 | ng | | 100 |
| 33) Chrysene | 21.456 | 228 | 19830 | 0.372 | ng | | 99 |
| 34) Bis(2-ethylhexyl)phtha... | 21.349 | 149 | 9422 | 0.639 | ng | # | 99 |
| 36) Indeno(1,2,3-cd)pyrene | 26.139 | 276 | 23199 | 0.395 | ng | | 98 |
| 37) Benzo(b)fluoranthene | 23.049 | 252 | 20529 | 0.373 | ng | | 99 |
| 38) Benzo(k)fluoranthene | 23.095 | 252 | 20752 | 0.370 | ng | | 99 |
| 39) Benzo(a)pyrene | 23.651 | 252 | 17627 | 0.400 | ng | | 99 |
| 40) Dibenzo(a,h)anthracene | 26.159 | 278 | 18232 | 0.389 | ng | | 96 |
| 41) Benzo(g,h,i)perylene | 26.867 | 276 | 19707 | 0.375 | ng | | 98 |

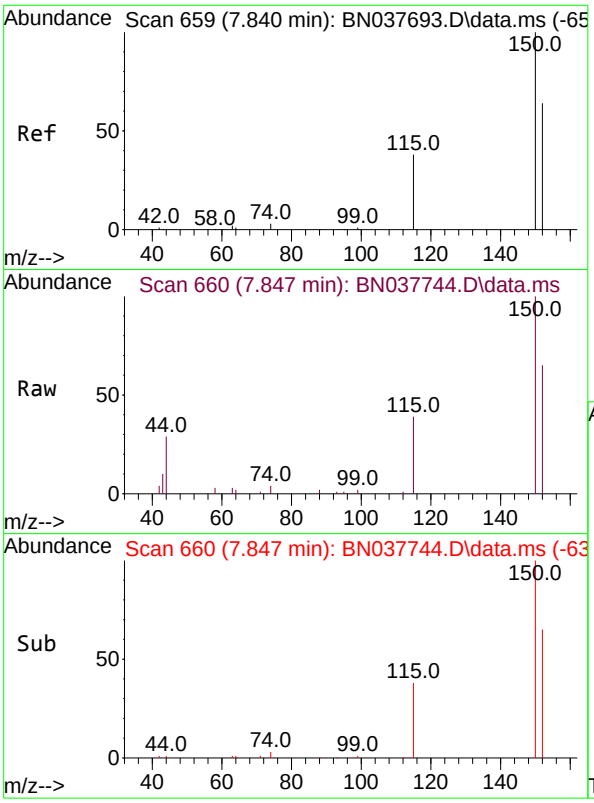
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN091725\
Data File : BN037744.D
Acq On : 17 Sep 2025 13:59
Operator : RC/JU
Sample : Q3095-07MSD
Misc :
ALS Vial : 6 Sample Multiplier: 1

**Instrument :**
BNA_N
**ClientSampleId :**
MW203D2-20250909MSD

Quant Time: Sep 17 14:31:09 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN091125.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Sep 11 14:20:01 2025
Response via : Initial Calibration



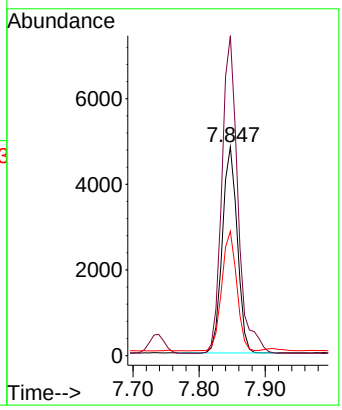


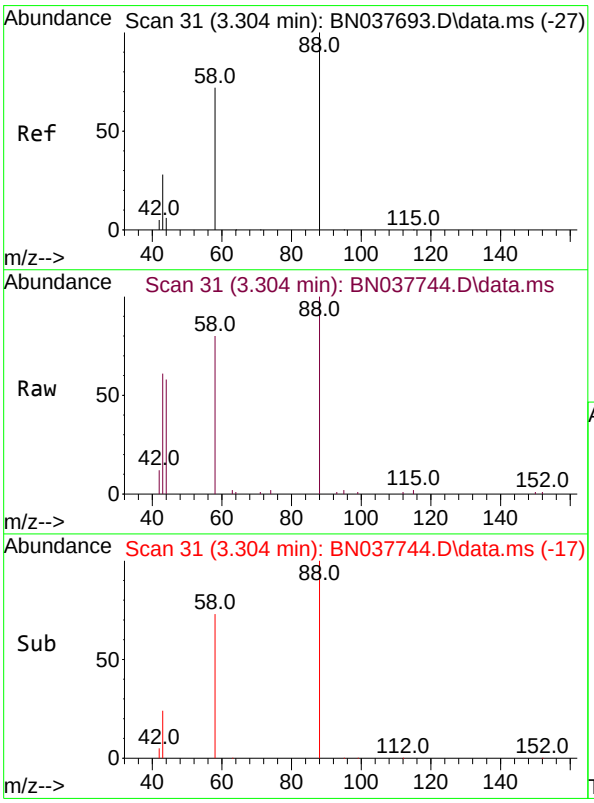

#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.847 min Scan# 6
Delta R.T. 0.007 min
Lab File: BN037744.D
Acq: 17 Sep 2025 13:59

**Instrument :**
BNA_N
**ClientSampleId :**
MW203D2-20250909MSD

Tgt Ion:152 Resp: 7569

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 150 | 153.3 | 124.5 | 186.7 |
| 115 | 59.5 | 49.2 | 73.8 |

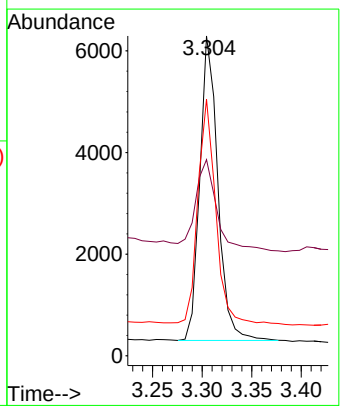


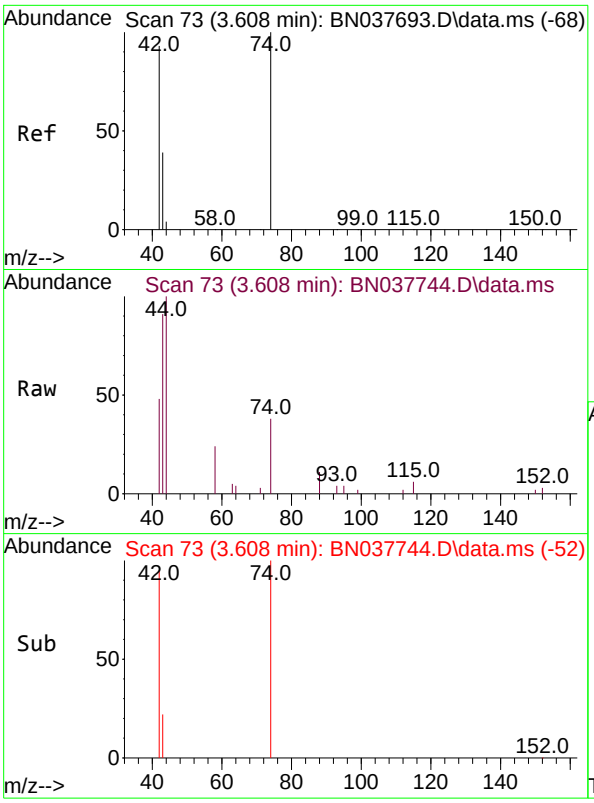




#2
1,4-Dioxane
Concen: 0.958 ng
RT: 3.304 min Scan# 31
Delta R.T. -0.000 min
Lab File: BN037744.D
Acq: 17 Sep 2025 13:59

Tgt Ion: 88 Resp: 7552

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 88 | 100 | | |
| 43 | 35.3 | 26.8 | 40.2 |
| 58 | 72.3 | 61.9 | 92.9 |



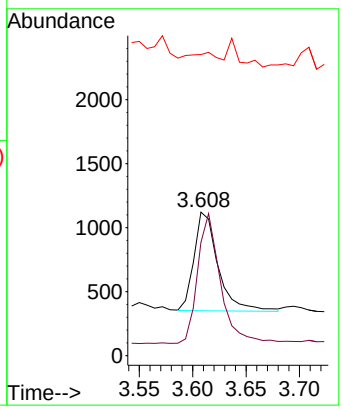


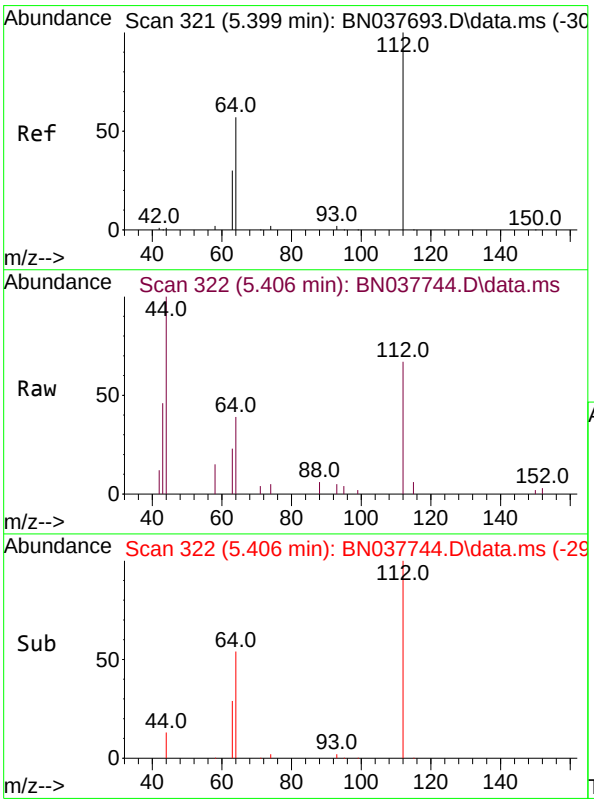

#3
n-Nitrosodimethylamine
Concen: 0.117 ng
RT: 3.608 min Scan# 7
Delta R.T. -0.000 min
Lab File: BN037744.D
Acq: 17 Sep 2025 13:59

**Instrument :**
BNA_N
**ClientSampleId :**
MW203D2-20250909MSD

Tgt Ion: 42 Resp: 1209

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 42 | 100 | | |
| 74 | 126.8 | 86.0 | 129.0 |
| 44 | 0.0 | 8.4 | 12.6# |

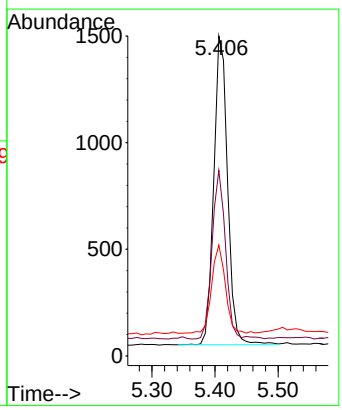


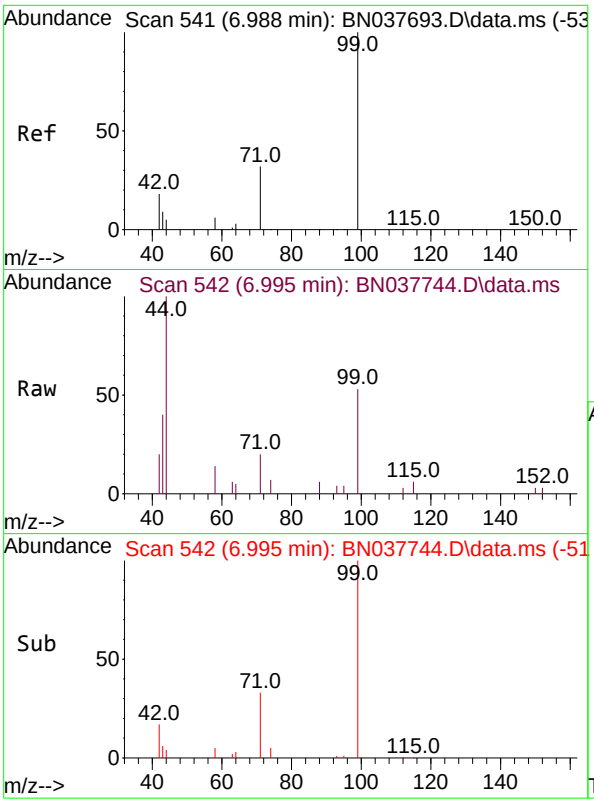




#4
2-Fluorophenol
Concen: 0.127 ng
RT: 5.406 min Scan# 322
Delta R.T. 0.007 min
Lab File: BN037744.D
Acq: 17 Sep 2025 13:59

Tgt Ion:112 Resp: 2212

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 112 | 100 | | |
| 64 | 53.4 | 44.9 | 67.3 |
| 63 | 28.3 | 24.7 | 37.1 |



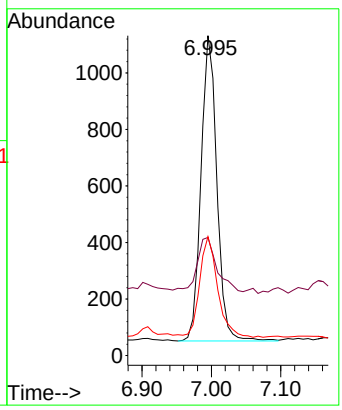


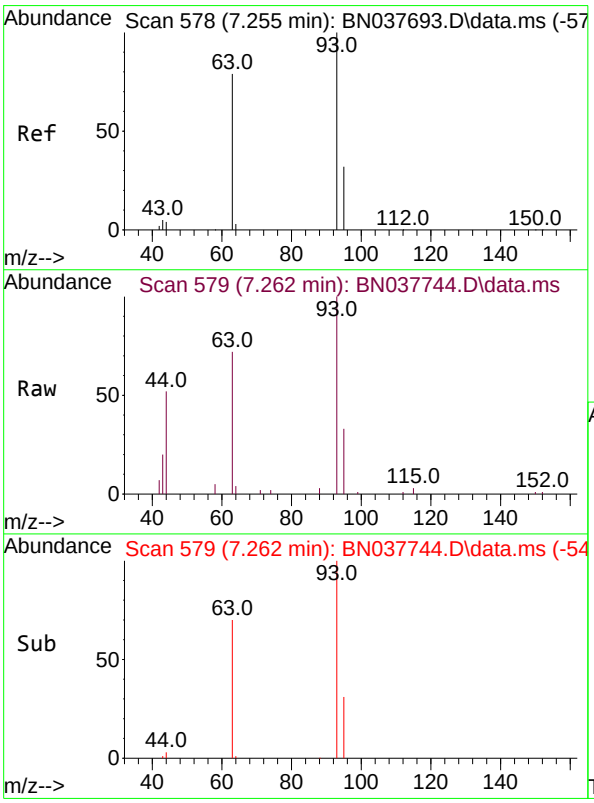

#5
Phenol-d6
Concen: 0.076 ng
RT: 6.995 min Scan# 54
Delta R.T. 0.007 min
Lab File: BN037744.D
Acq: 17 Sep 2025 13:59

**Instrument :**
BNA_N
**ClientSampleId :**
MW203D2-20250909MSD

Tgt Ion: 99 Resp: 1709

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 99 | 100 | | |
| 42 | 22.0 | 16.6 | 24.8 |
| 71 | 37.4 | 26.7 | 40.1 |

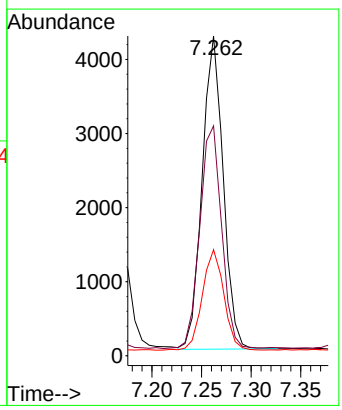


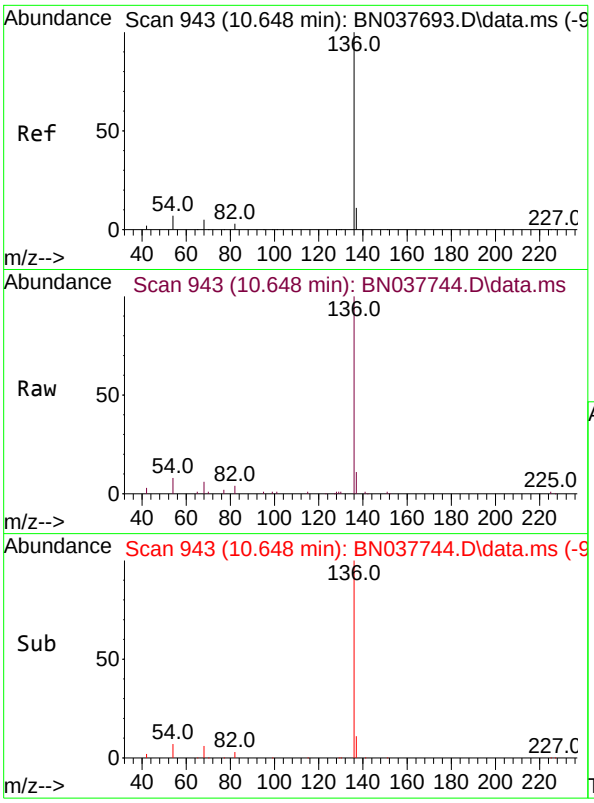




#6
bis(2-Chloroethyl)ether
Concen: 0.309 ng
RT: 7.262 min Scan# 579
Delta R.T. 0.007 min
Lab File: BN037744.D
Acq: 17 Sep 2025 13:59

Tgt Ion: 93 Resp: 6223

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 93 | 100 | | |
| 63 | 74.0 | 60.6 | 90.8 |
| 95 | 32.9 | 26.0 | 39.0 |



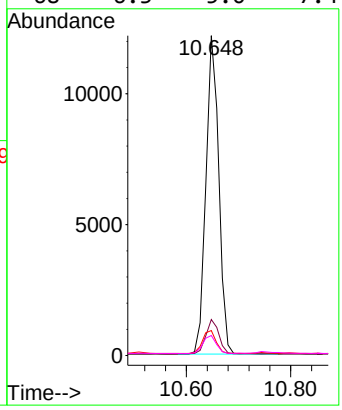


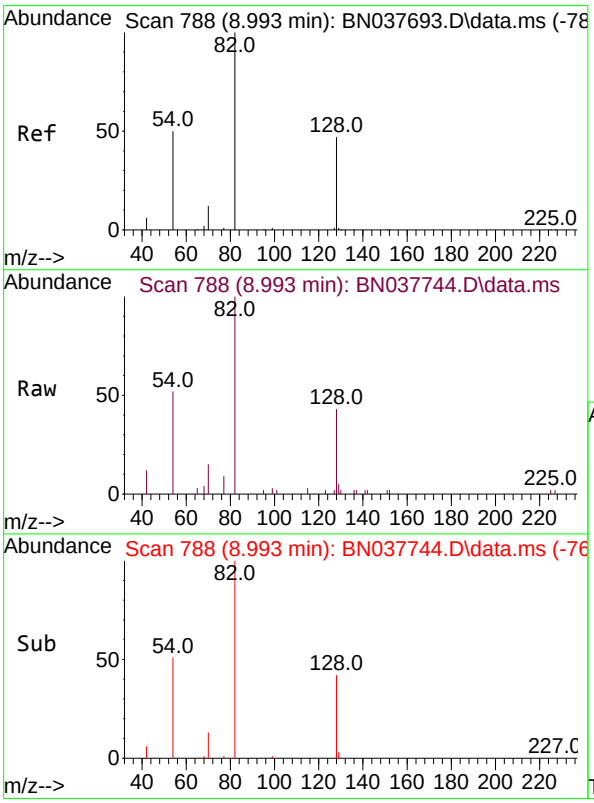

#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.648 min Scan# 94
Delta R.T. -0.000 min
Lab File: BN037744.D
Acq: 17 Sep 2025 13:59

**Instrument :**
BNA_N
**ClientSampleId :**
MW203D2-20250909MSD

Tgt Ion:136 Resp: 20880

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 136 | 100 | | |
| 137 | 11.3 | 9.1 | 13.7 |
| 54 | 7.8 | 6.3 | 9.5 |
| 68 | 6.3 | 5.0 | 7.4 |

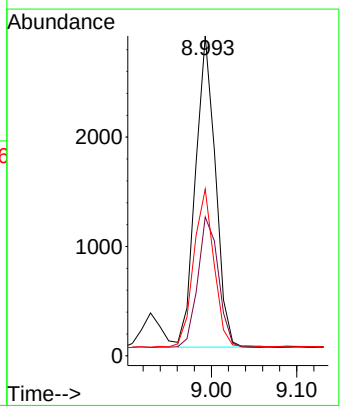


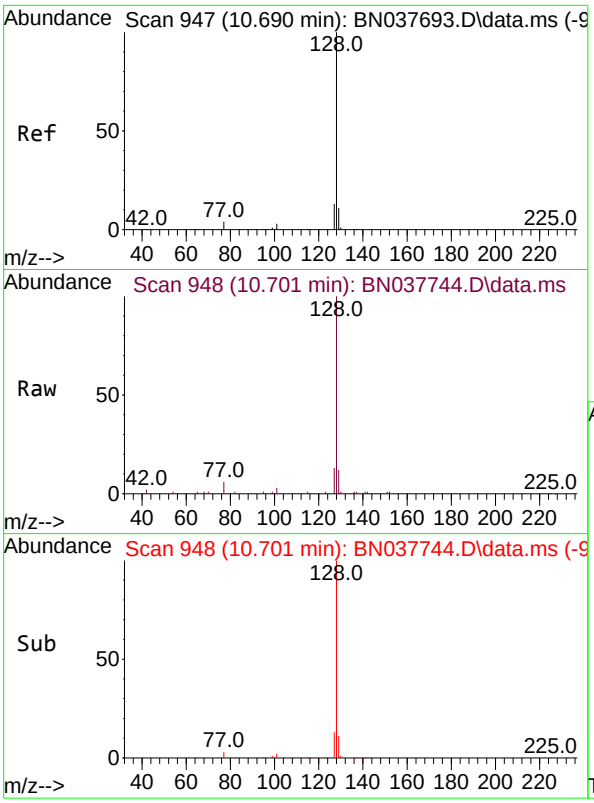




#8
Nitrobenzene-d5
Concen: 0.302 ng
RT: 8.993 min Scan# 788
Delta R.T. -0.000 min
Lab File: BN037744.D
Acq: 17 Sep 2025 13:59

Tgt Ion: 82 Resp: 4607

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 82 | 100 | | |
| 128 | 43.4 | 38.3 | 57.5 |
| 54 | 52.1 | 41.4 | 62.2 |



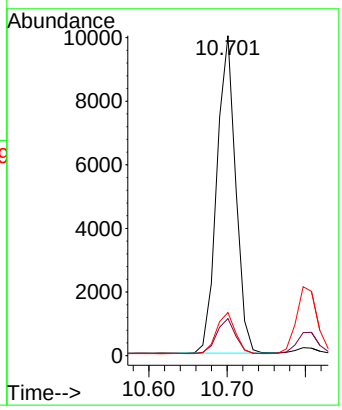


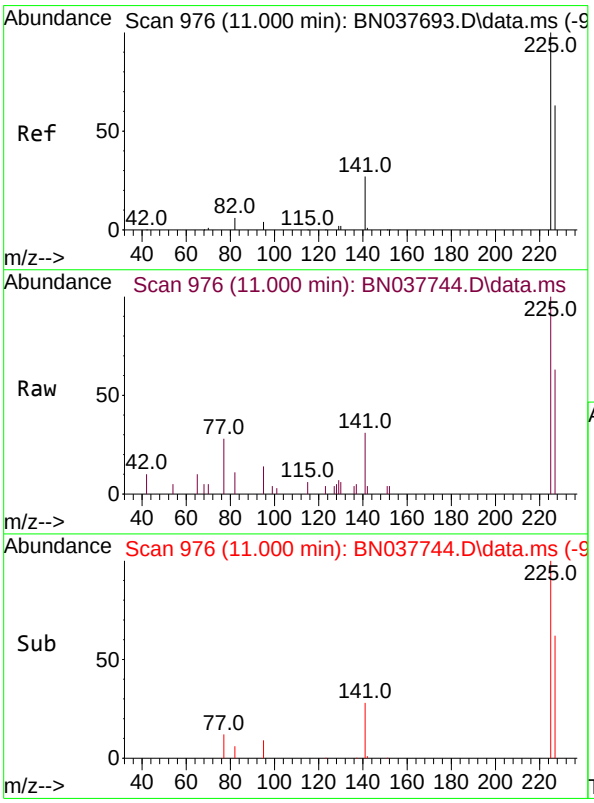

#9
Naphthalene
Concen: 0.293 ng
RT: 10.701 min Scan# 94
Delta R.T. 0.011 min
Lab File: BN037744.D
Acq: 17 Sep 2025 13:59

**Instrument :**
BNA_N
**ClientSampleId :**
MW203D2-20250909MSD

Tgt Ion:128 Resp: 16698

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 128 | 100 | | |
| 129 | 11.6 | 9.1 | 13.7 |
| 127 | 13.5 | 10.9 | 16.3 |

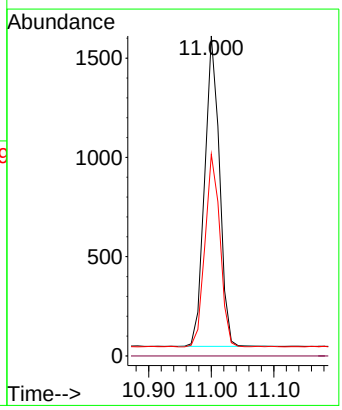


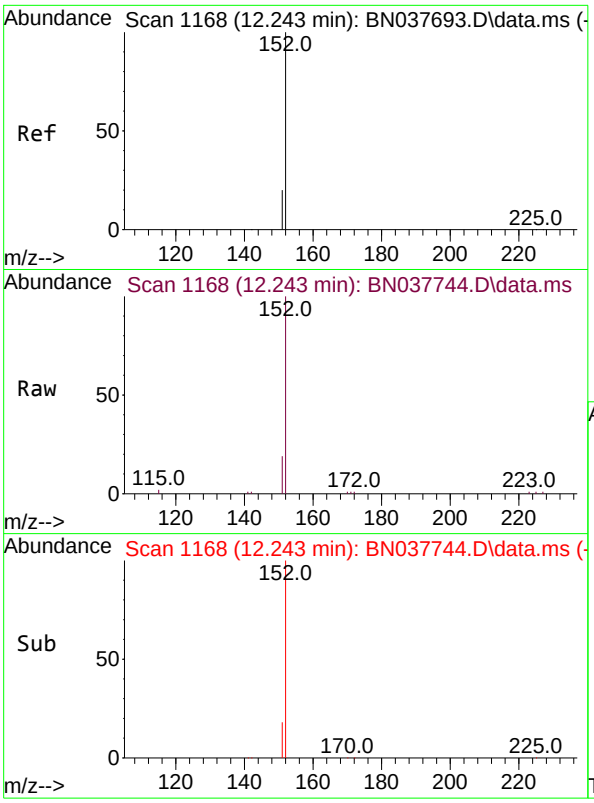




#10
Hexachlorobutadiene
Concen: 0.249 ng
RT: 11.000 min Scan# 976
Delta R.T. -0.000 min
Lab File: BN037744.D
Acq: 17 Sep 2025 13:59

Tgt Ion:225 Resp: 2575

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 225 | 100 | | |
| 223 | 0.0 | 0.0 | 0.0 |
| 227 | 62.8 | 50.9 | 76.3 |



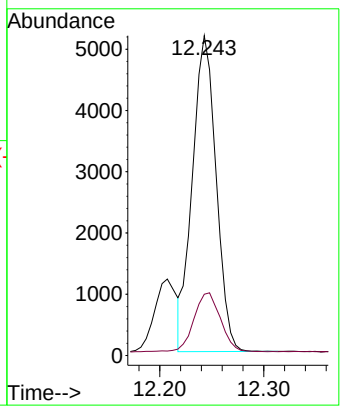


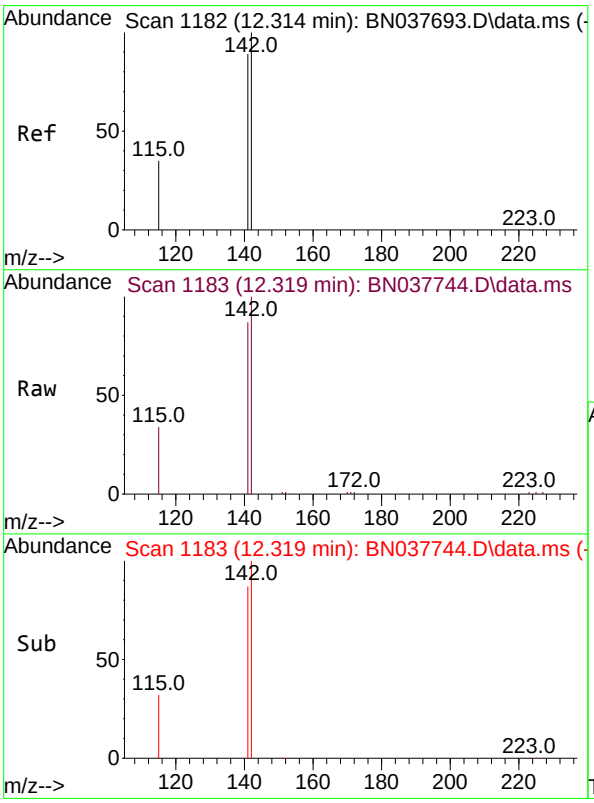

#11
2-Methylnaphthalene-d10
Concen: 0.295 ng
RT: 12.243 min Scan# 11
Delta R.T. -0.000 min
Lab File: BN037744.D
Acq: 17 Sep 2025 13:59

**Instrument :**
BNA_N
**ClientSampleId :**
MW203D2-20250909MSD

Tgt Ion:152 Resp: 8165

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

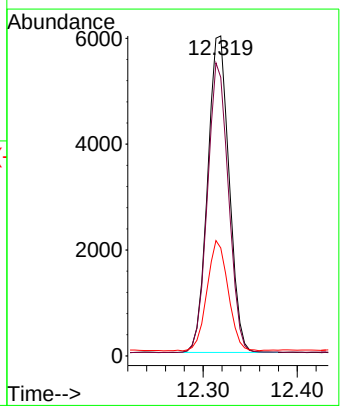


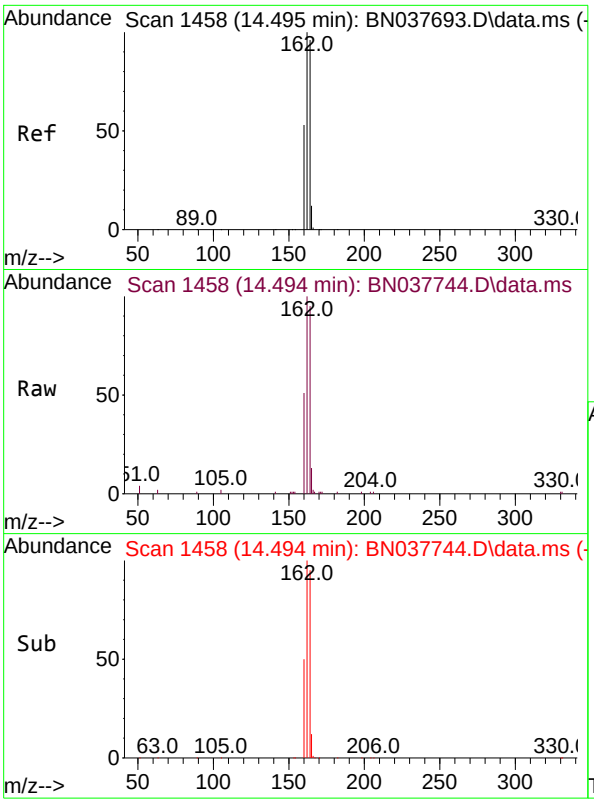




#12
2-Methylnaphthalene
Concen: 0.268 ng
RT: 12.319 min Scan# 1183
Delta R.T. 0.005 min
Lab File: BN037744.D
Acq: 17 Sep 2025 13:59

Tgt Ion:142 Resp: 9478

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 142 | 100 | | |
| 141 | 87.0 | 71.6 | 107.4 |
| 115 | 33.7 | 28.6 | 43.0 |



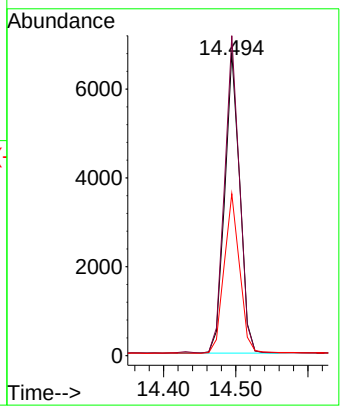


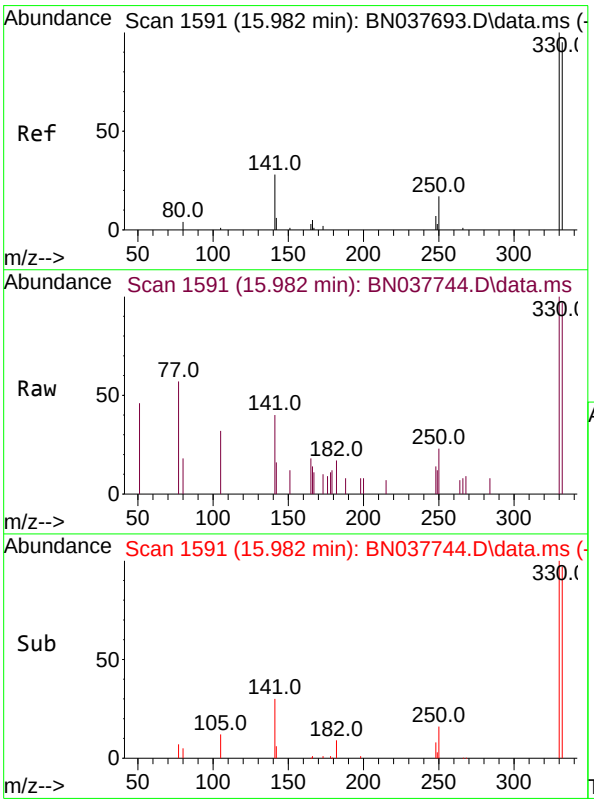

#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.494 min Scan# 14
Delta R.T. -0.000 min
Lab File: BN037744.D
Acq: 17 Sep 2025 13:59

**Instrument :**
BNA_N
**ClientSampleId :**
MW203D2-20250909MSD

Tgt Ion:164 Resp: 9823

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 164 | 100 | | |
| 162 | 105.6 | 83.1 | 124.7 |
| 160 | 53.4 | 44.3 | 66.5 |

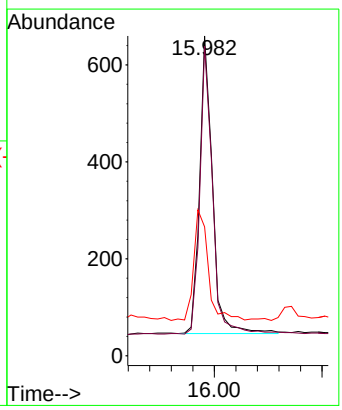


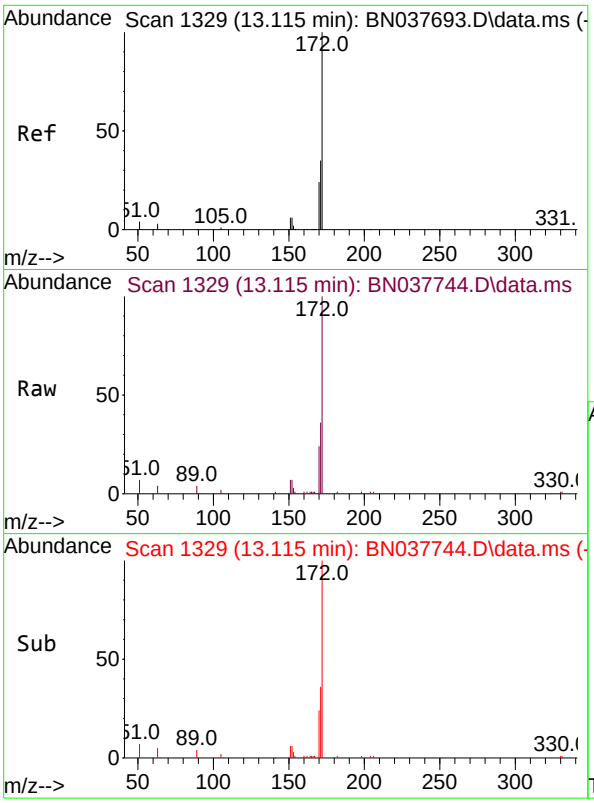




#14
2,4,6-Tribromophenol
Concen: 0.395 ng
RT: 15.982 min Scan# 1591
Delta R.T. -0.000 min
Lab File: BN037744.D
Acq: 17 Sep 2025 13:59

Tgt Ion:330 Resp: 1013

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 330 | 100 | | |
| 332 | 95.6 | 75.3 | 112.9 |
| 141 | 41.9 | 35.0 | 52.4 |



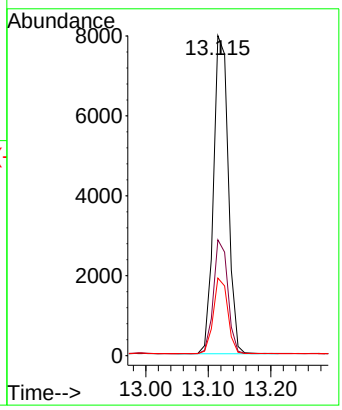


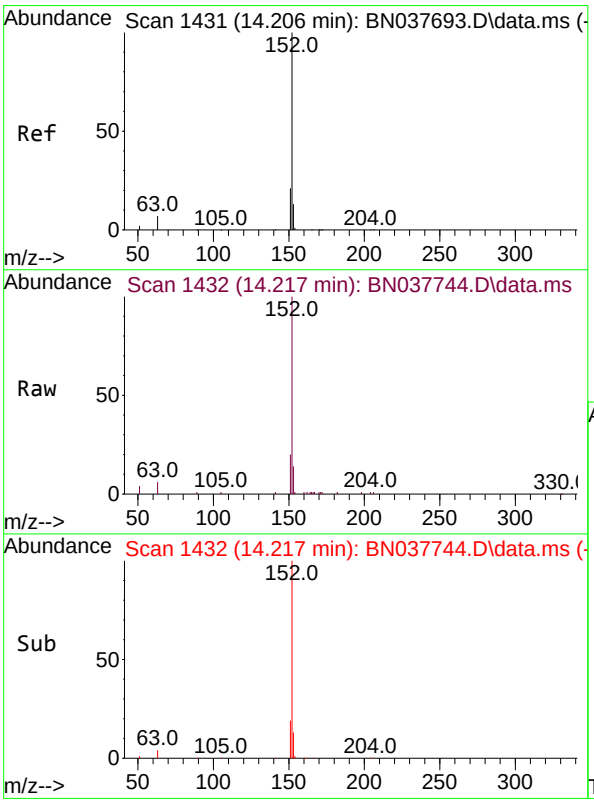

#15
2-Fluorobiphenyl
Concen: 0.318 ng
RT: 13.115 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN037744.D
Acq: 17 Sep 2025 13:59

**Instrument :**
BNA_N
**ClientSampleId :**
MW203D2-20250909MSD

Tgt Ion:172 Resp: 13067

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 172 | 100 | | |
| 171 | 36.2 | 28.6 | 43.0 |
| 170 | 24.2 | 19.8 | 29.8 |

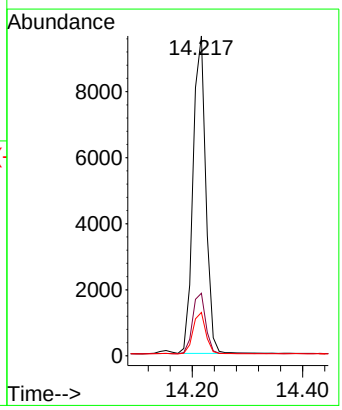


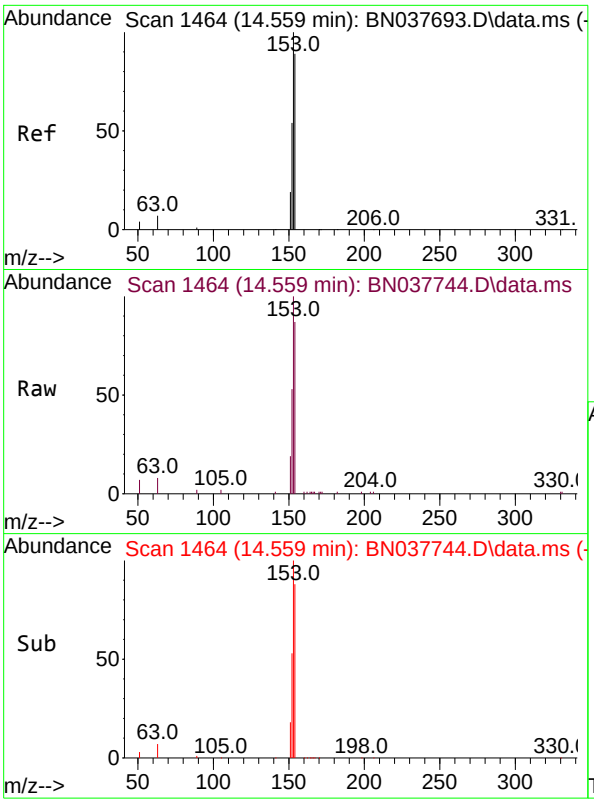




#16
Acenaphthylene
Concen: 0.343 ng
RT: 14.217 min Scan# 1432
Delta R.T. 0.011 min
Lab File: BN037744.D
Acq: 17 Sep 2025 13:59

Tgt Ion:152 Resp: 15433

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 151 | 19.6 | 16.2 | 24.2 |
| 153 | 13.2 | 10.4 | 15.6 |



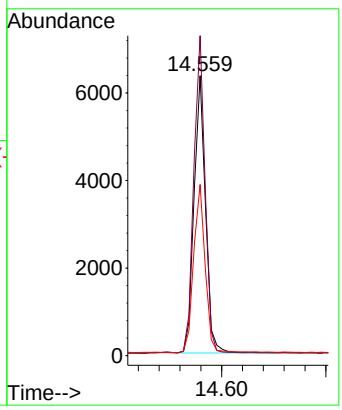


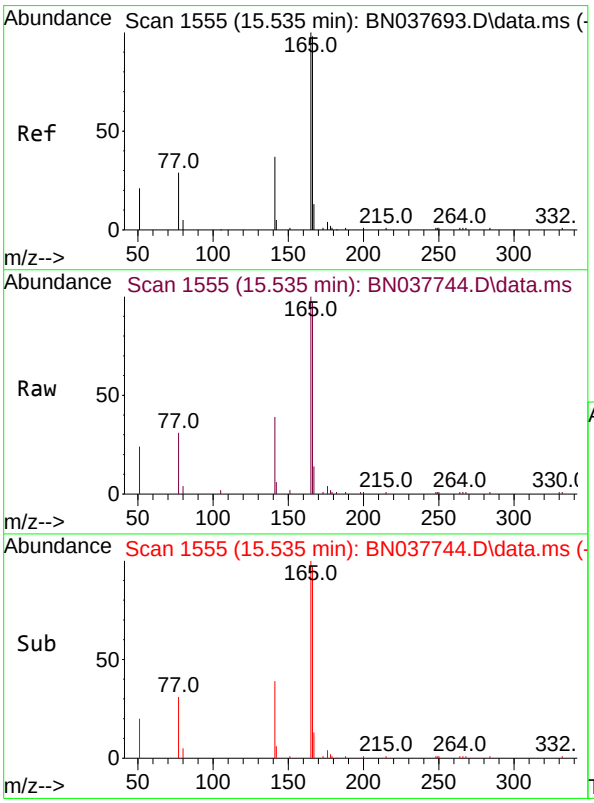

#17
Acenaphthene
Concen: 0.315 ng
RT: 14.559 min Scan# 14
Delta R.T. -0.000 min
Lab File: BN037744.D
Acq: 17 Sep 2025 13:59

**Instrument :**
BNA_N
**ClientSampleId :**
MW203D2-20250909MSD

Tgt Ion:154 Resp: 9606

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 154 | 100 | | |
| 153 | 112.1 | 89.8 | 134.8 |
| 152 | 61.8 | 50.2 | 75.2 |

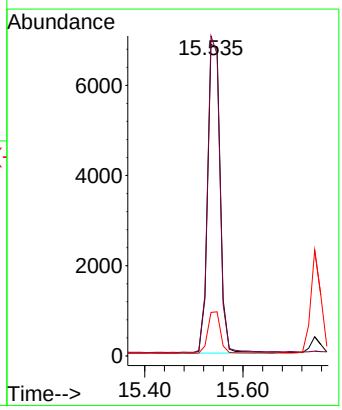


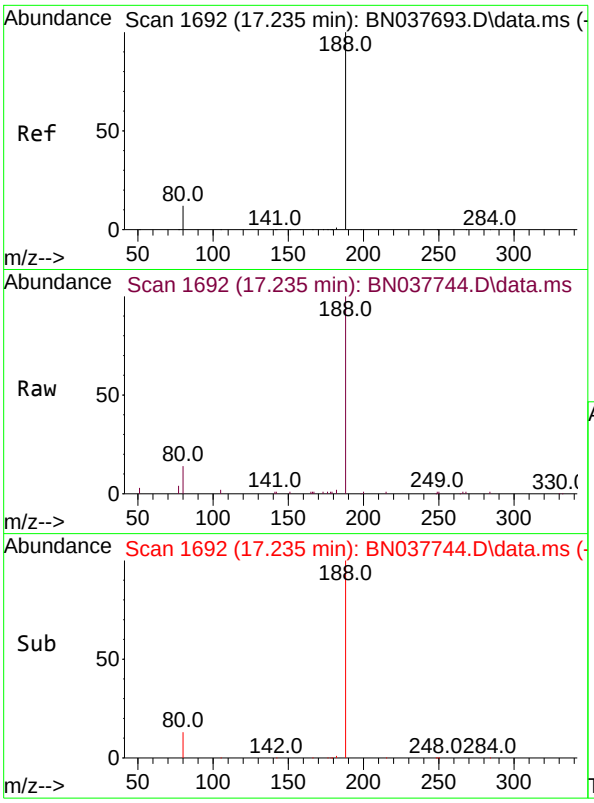




#18
Fluorene
Concen: 0.319 ng
RT: 15.535 min Scan# 1555
Delta R.T. -0.000 min
Lab File: BN037744.D
Acq: 17 Sep 2025 13:59

Tgt Ion:166 Resp: 11771

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 166 | 100 | | |
| 165 | 100.1 | 79.6 | 119.4 |
| 167 | 13.8 | 10.6 | 16.0 |



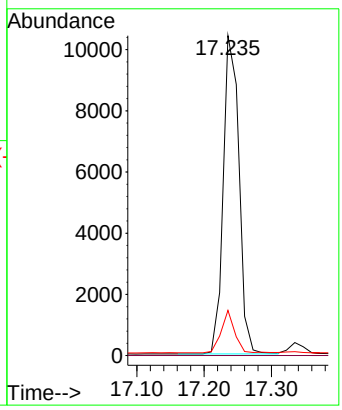


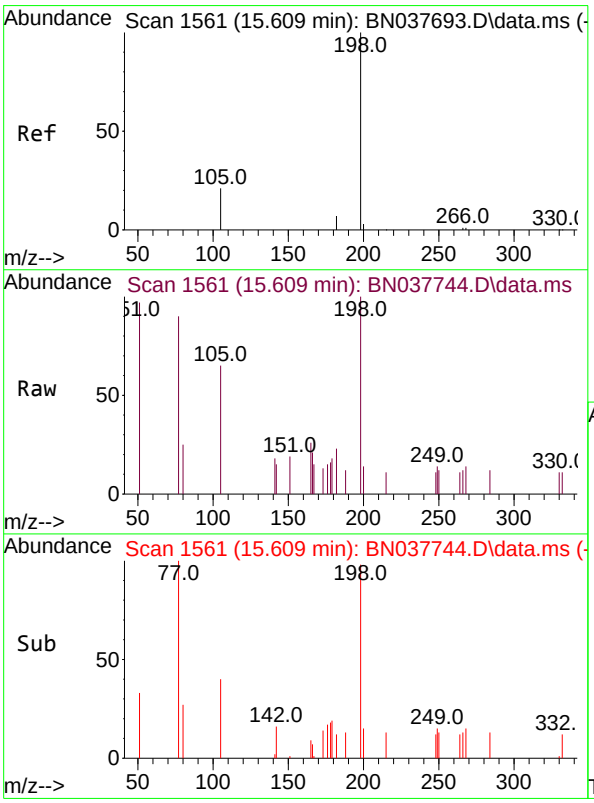

#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.235 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN037744.D
Acq: 17 Sep 2025 13:59

**Instrument :**
BNA_N
**ClientSampleId :**
MW203D2-20250909MSD

Tgt Ion:188 Resp: 16954

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 188 | 100 | | |
| 94 | 0.0 | 0.0 | 0.0 |
| 80 | 14.1 | 10.6 | 15.8 |

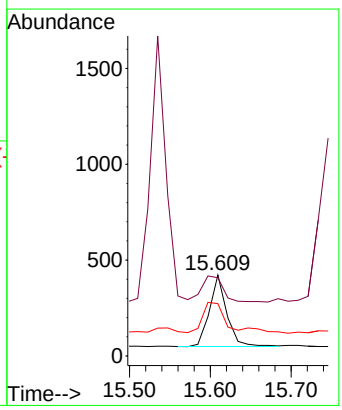


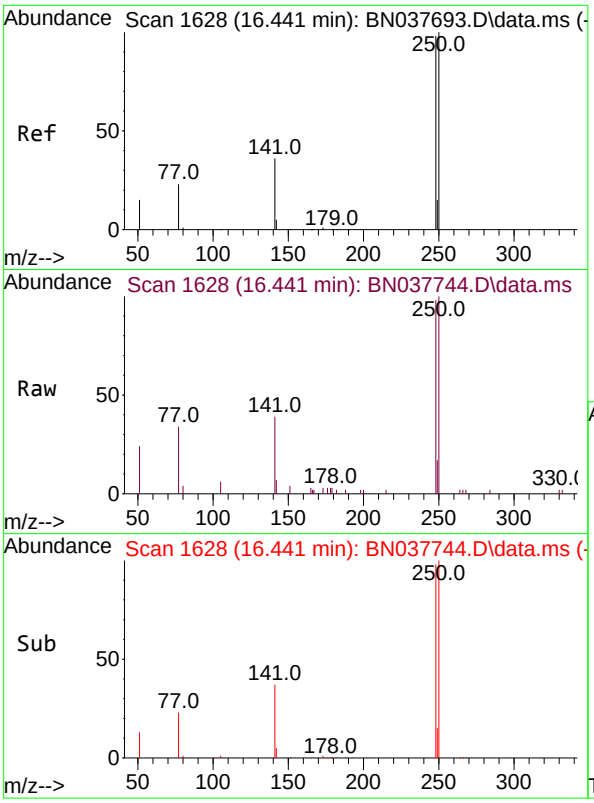




#20
4,6-Dinitro-2-methylphenol
Concen: 0.352 ng
RT: 15.609 min Scan# 1561
Delta R.T. 0.000 min
Lab File: BN037744.D
Acq: 17 Sep 2025 13:59

Tgt Ion:198 Resp: 553

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 198 | 100 | | |
| 51 | 96.7 | 95.1 | 142.7 |
| 105 | 64.7 | 53.8 | 80.6 |



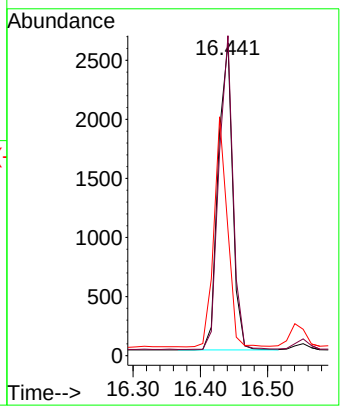


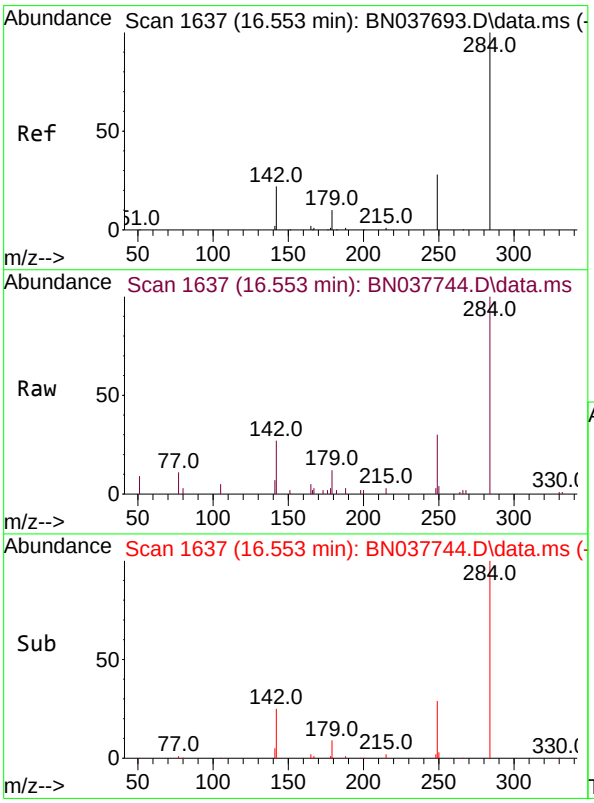

#21
4-Bromophenyl-phenylether
Concen: 0.352 ng
RT: 16.441 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN037744.D
Acq: 17 Sep 2025 13:59

**Instrument :**
BNA_N
**ClientSampleId :**
MW203D2-20250909MSD

Tgt Ion:248 Resp: 3888

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 248 | 100 | | |
| 250 | 102.3 | 81.5 | 122.3 |
| 141 | 40.3 | 30.8 | 46.2 |

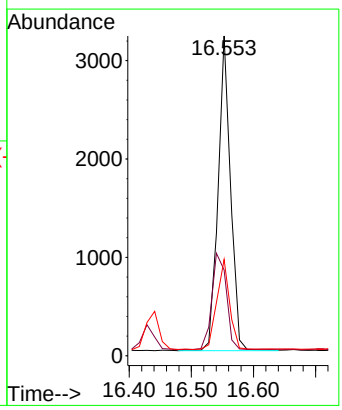


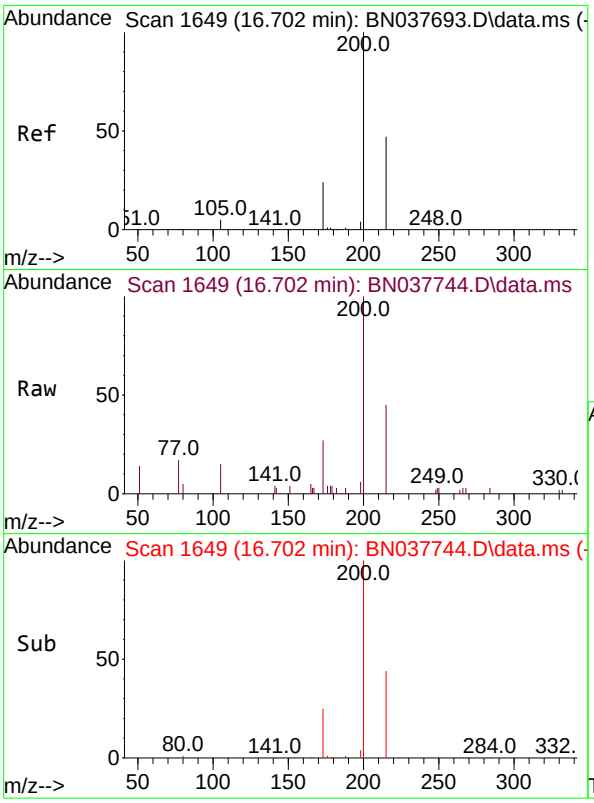




#22
Hexachlorobenzene
Concen: 0.352 ng
RT: 16.553 min Scan# 1637
Delta R.T. -0.000 min
Lab File: BN037744.D
Acq: 17 Sep 2025 13:59

Tgt Ion:284 Resp: 4480

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 284 | 100 | | |
| 142 | 35.8 | 30.9 | 46.3 |
| 249 | 29.5 | 24.8 | 37.2 |



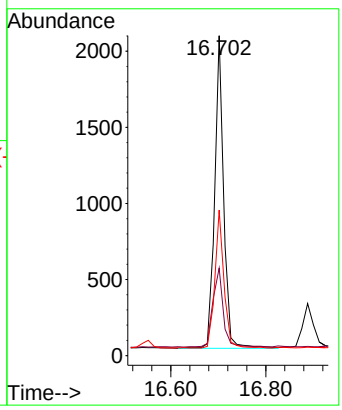


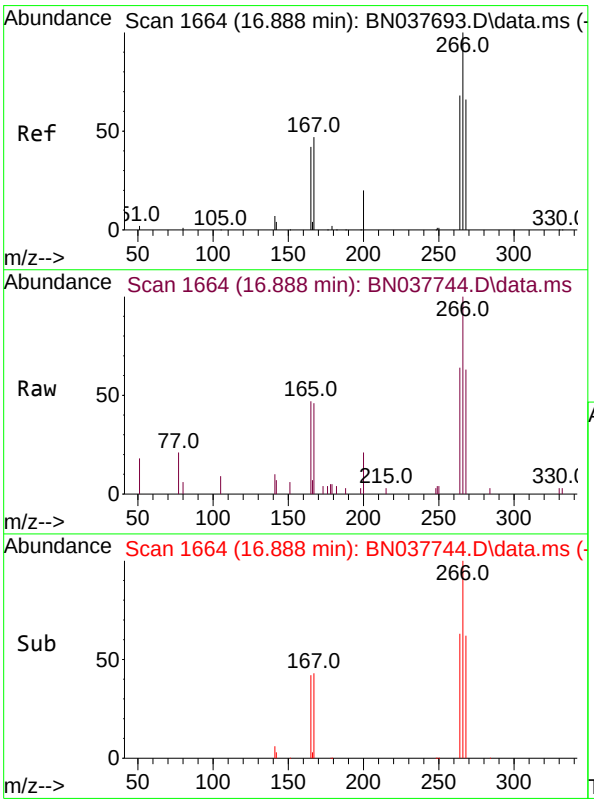

#23
Atrazine
Concen: 0.385 ng
RT: 16.702 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN037744.D
Acq: 17 Sep 2025 13:59

**Instrument :**
BNA_N
**ClientSampleId :**
MW203D2-20250909MSD

Tgt Ion:200 Resp: 2705

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 200 | 100 | | |
| 173 | 27.3 | 21.4 | 32.2 |
| 215 | 45.5 | 39.2 | 58.8 |

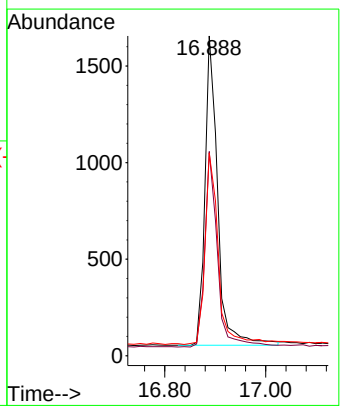


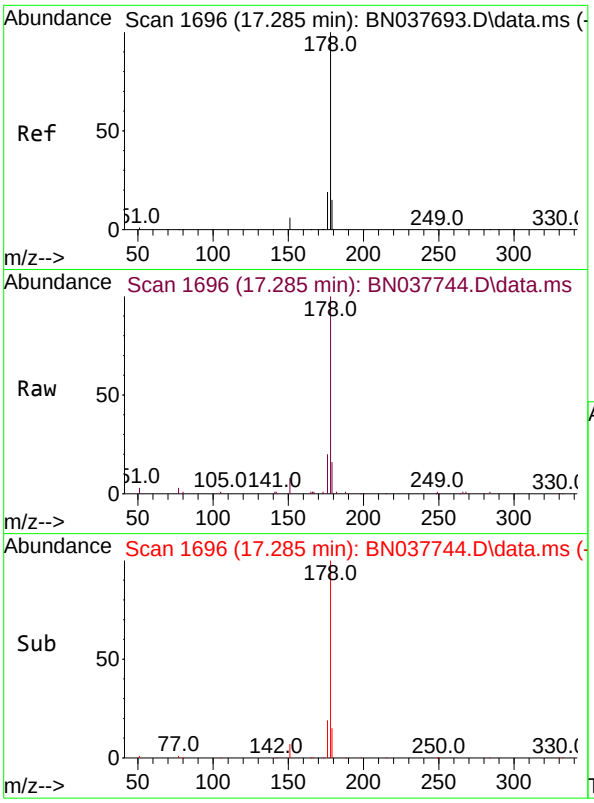




#24
Pentachlorophenol
Concen: 0.753 ng
RT: 16.888 min Scan# 1664
Delta R.T. -0.000 min
Lab File: BN037744.D
Acq: 17 Sep 2025 13:59

Tgt Ion:266 Resp: 2781

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 266 | 100 | | |
| 264 | 62.8 | 51.6 | 77.4 |
| 268 | 65.4 | 53.2 | 79.8 |



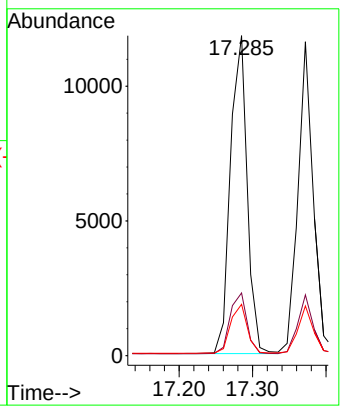


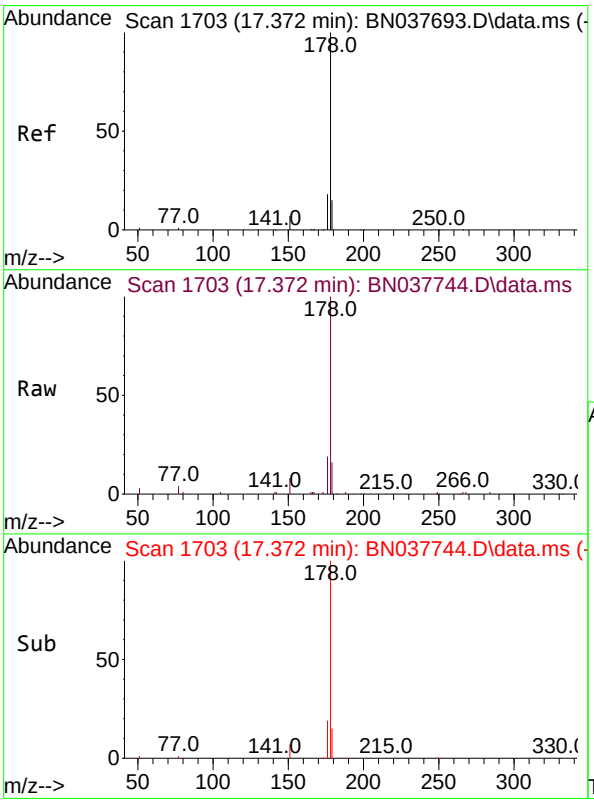

#25
Phenanthrene
Concen: 0.351 ng
RT: 17.285 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN037744.D
Acq: 17 Sep 2025 13:59

**Instrument :**
BNA_N
**ClientSampleId :**
MW203D2-20250909MSD

Tgt Ion:178 Resp: 18751

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 178 | 100 | | |
| 176 | 19.3 | 15.3 | 22.9 |
| 179 | 15.5 | 12.2 | 18.2 |

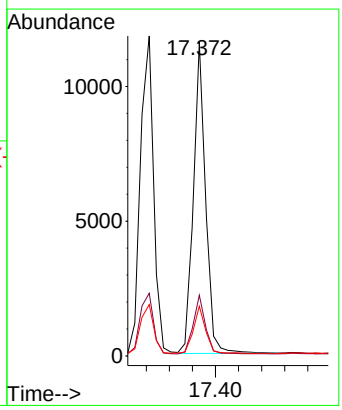


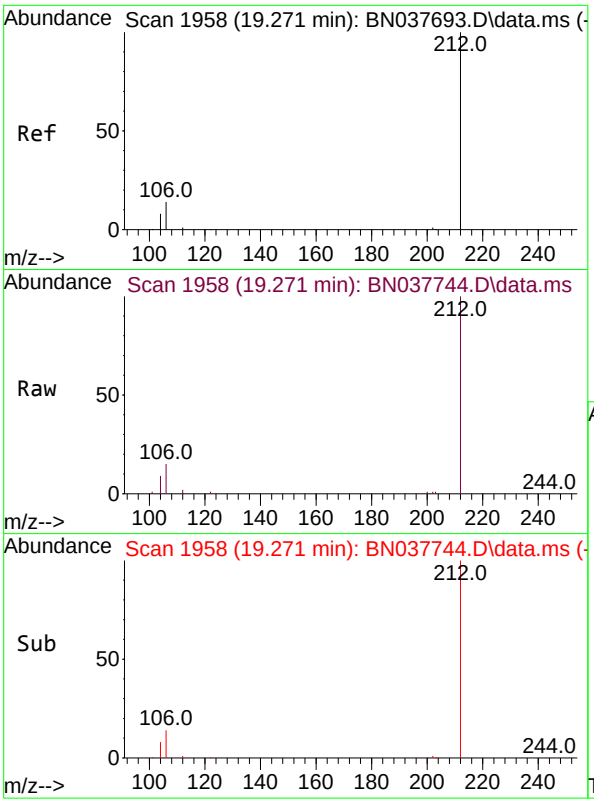




#26
Anthracene
Concen: 0.358 ng
RT: 17.372 min Scan# 1703
Delta R.T. -0.000 min
Lab File: BN037744.D
Acq: 17 Sep 2025 13:59

Tgt Ion:178 Resp: 16950

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 178 | 100 | | |
| 176 | 18.8 | 14.6 | 22.0 |
| 179 | 15.2 | 12.2 | 18.4 |



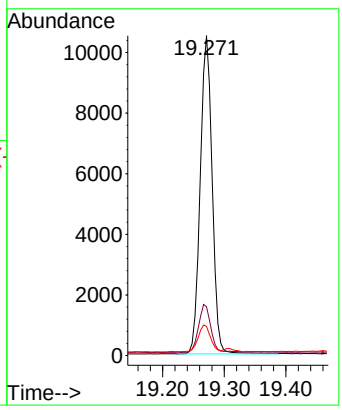


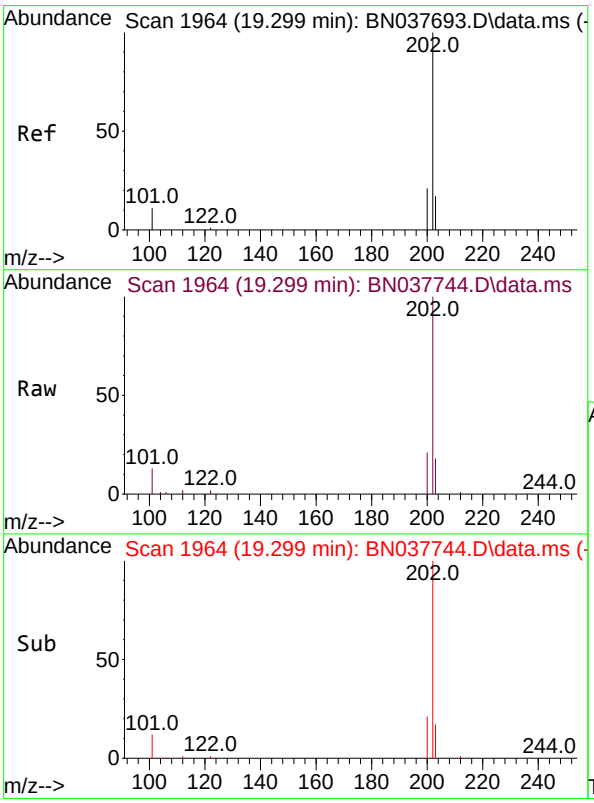

#27
Fluoranthene-d10
Concen: 0.330 ng
RT: 19.271 min Scan# 19
Delta R.T. -0.000 min
Lab File: BN037744.D
Acq: 17 Sep 2025 13:59

**Instrument :**
BNA_N
**ClientSampleId :**
MW203D2-20250909MSD

Tgt Ion:212 Resp: 14031

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 212 | 100 | | |
| 106 | 15.7 | 12.2 | 18.2 |
| 104 | 8.6 | 6.9 | 10.3 |

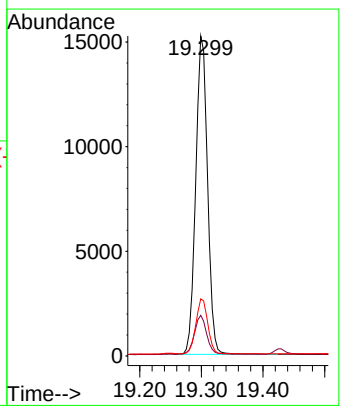


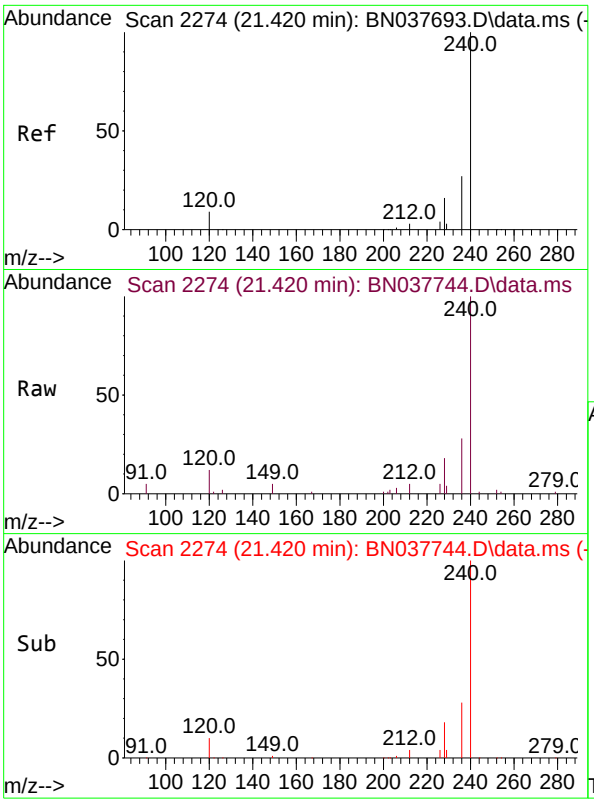




#28
Fluoranthene
Concen: 0.345 ng
RT: 19.299 min Scan# 1964
Delta R.T. -0.000 min
Lab File: BN037744.D
Acq: 17 Sep 2025 13:59

Tgt Ion:202 Resp: 20168

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 202 | 100 | | |
| 101 | 12.5 | 9.3 | 13.9 |
| 203 | 17.4 | 13.7 | 20.5 |



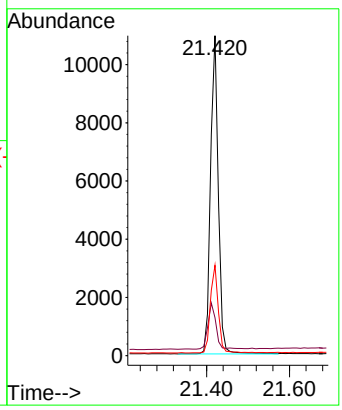


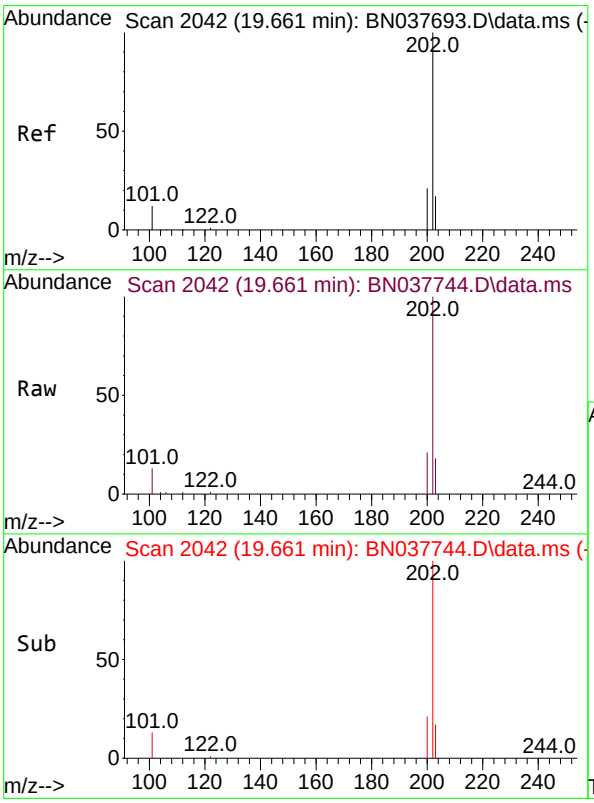

#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.420 min Scan# 2
Delta R.T. -0.000 min
Lab File: BN037744.D
Acq: 17 Sep 2025 13:59

**Instrument :**
BNA_N
**ClientSampleId :**
MW203D2-20250909MSD

Tgt Ion:240 Resp: 14253

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 240 | 100 | | |
| 120 | 11.8 | 9.2 | 13.8 |
| 236 | 28.2 | 22.6 | 33.8 |

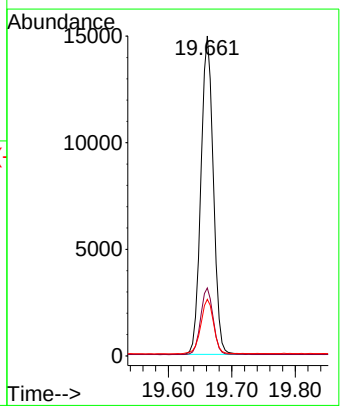


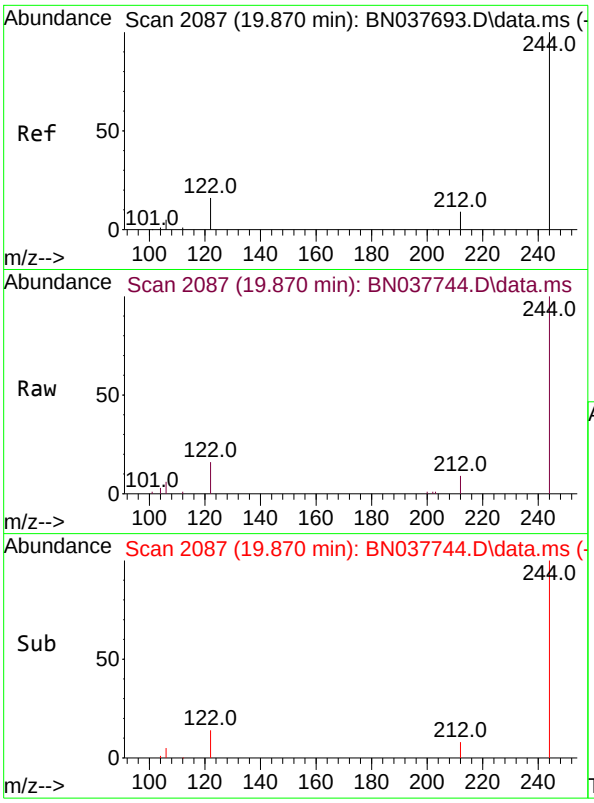




#30
Pyrene
Concen: 0.365 ng
RT: 19.661 min Scan# 2042
Delta R.T. -0.000 min
Lab File: BN037744.D
Acq: 17 Sep 2025 13:59

Tgt Ion:202 Resp: 20353

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 202 | 100 | | |
| 200 | 20.9 | 16.8 | 25.2 |
| 203 | 17.8 | 14.3 | 21.5 |



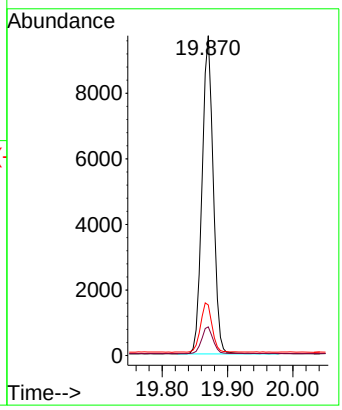


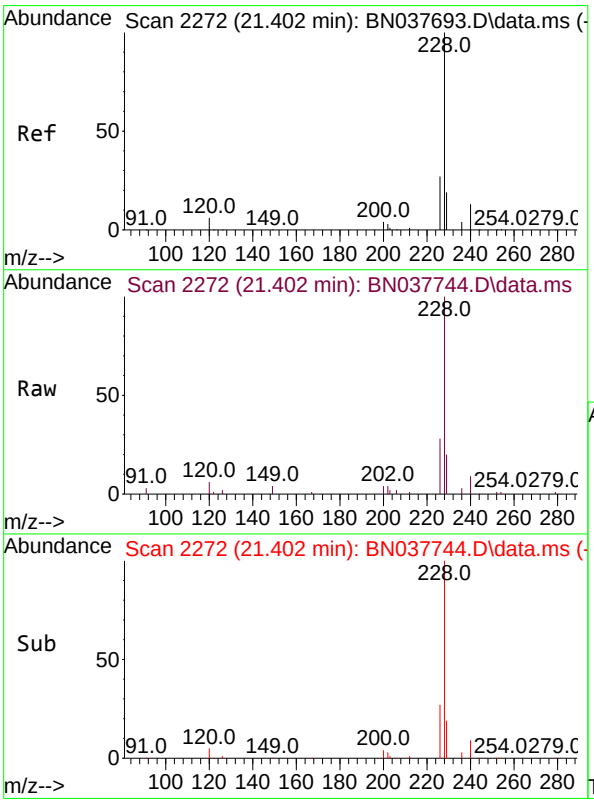

#31
Terphenyl-d14
Concen: 0.397 ng
RT: 19.870 min Scan# 20
Delta R.T. -0.000 min
Lab File: BN037744.D
Acq: 17 Sep 2025 13:59

**Instrument :**
BNA_N
**ClientSampleId :**
MW203D2-20250909MSD

Tgt Ion:244 Resp: 11475

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 244 | 100 | | |
| 212 | 9.0 | 7.5 | 11.3 |
| 122 | 15.8 | 13.2 | 19.8 |

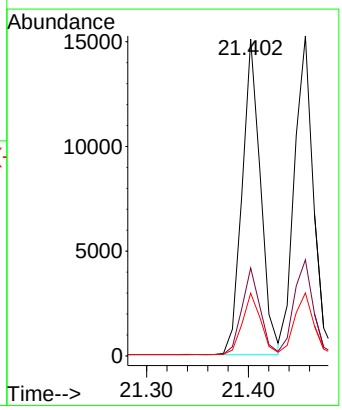


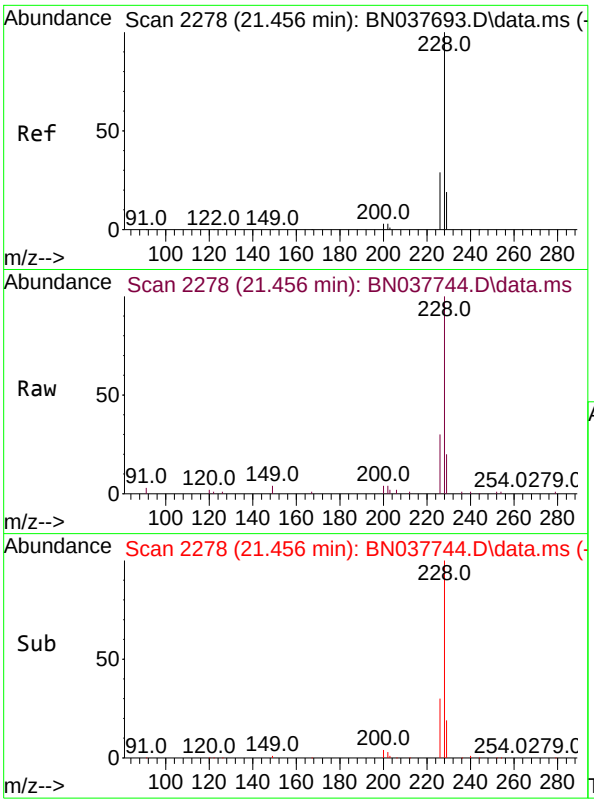




#32
Benzo(a)anthracene
Concen: 0.380 ng
RT: 21.402 min Scan# 2272
Delta R.T. -0.000 min
Lab File: BN037744.D
Acq: 17 Sep 2025 13:59

Tgt Ion:228 Resp: 18881

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 228 | 100 | | |
| 226 | 27.7 | 22.2 | 33.2 |
| 229 | 19.8 | 15.8 | 23.6 |



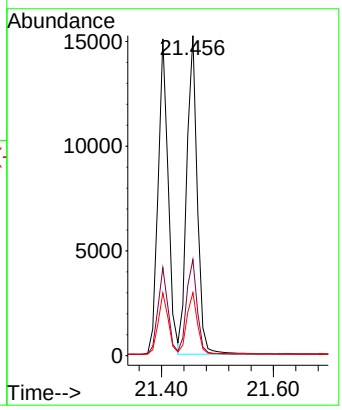


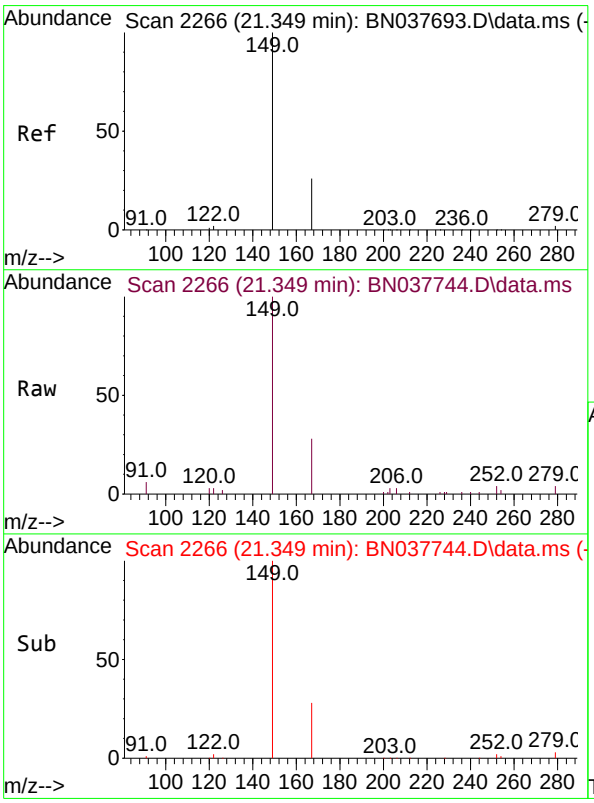

#33
Chrysene
Concen: 0.372 ng
RT: 21.456 min Scan# 2
Delta R.T. -0.000 min
Lab File: BN037744.D
Acq: 17 Sep 2025 13:59

**Instrument :**
BNA_N
**ClientSampleId :**
MW203D2-20250909MSD

Tgt Ion:228 Resp: 19830

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 228 | 100 | | |
| 226 | 30.0 | 23.5 | 35.3 |
| 229 | 19.7 | 15.9 | 23.9 |

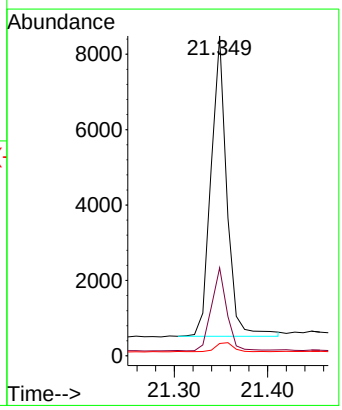


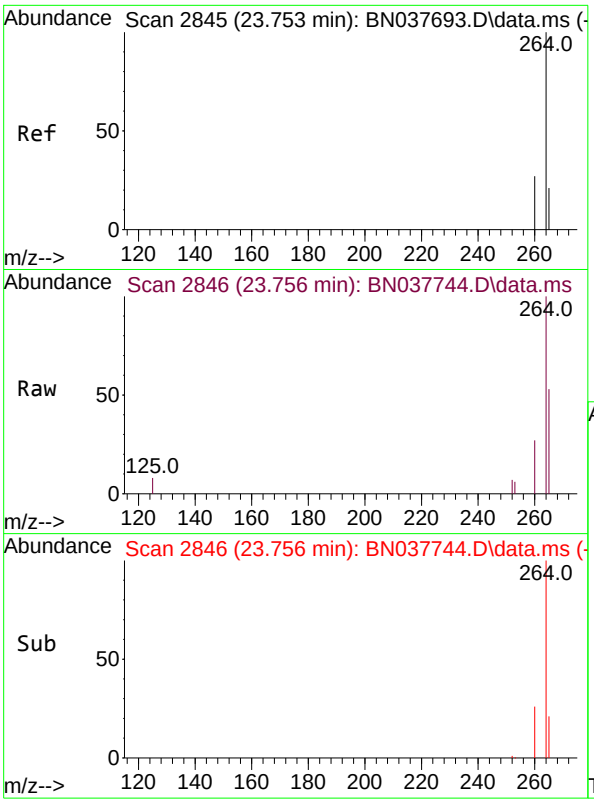




#34
Bis(2-ethylhexyl)phthalate
Concen: 0.639 ng
RT: 21.349 min Scan# 2266
Delta R.T. -0.000 min
Lab File: BN037744.D
Acq: 17 Sep 2025 13:59

Tgt Ion:149 Resp: 9422

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 149 | 100 | | |
| 167 | 26.4 | 20.8 | 31.2 |
| 279 | 3.3 | 3.3 | 4.9# |



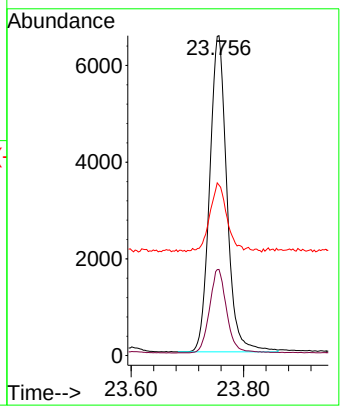


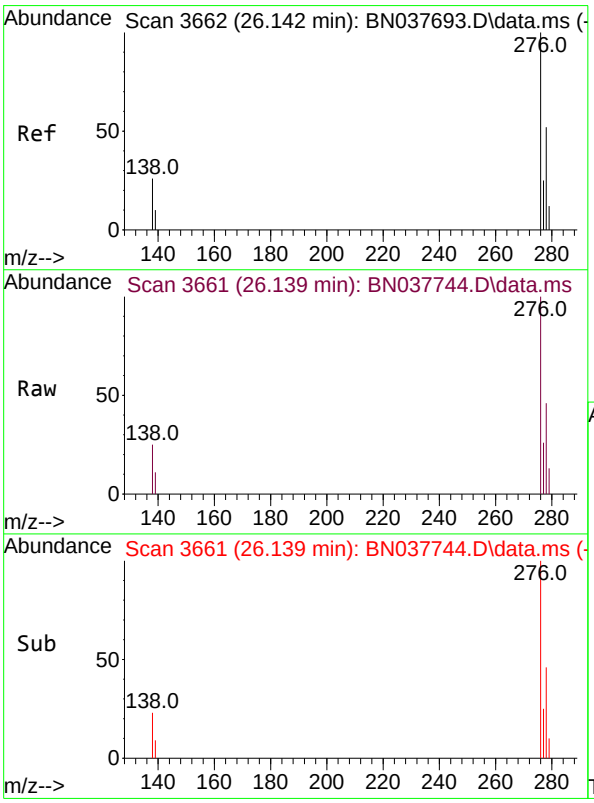

#35
Perylene-d12
Concen: 0.400 ng
RT: 23.756 min Scan# 28
Delta R.T. 0.003 min
Lab File: BN037744.D
Acq: 17 Sep 2025 13:59

**Instrument :**
BNA_N
**ClientSampleId :**
MW203D2-20250909MSD

Tgt Ion:264 Resp: 13967

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 264 | 100 | | |
| 260 | 26.9 | 21.8 | 32.8 |
| 265 | 53.3 | 39.4 | 59.2 |

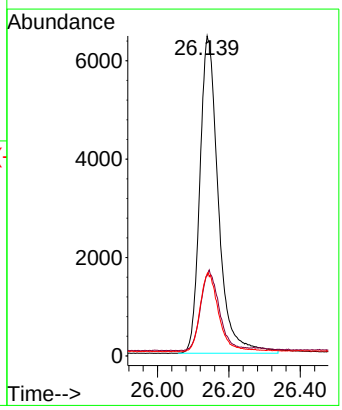


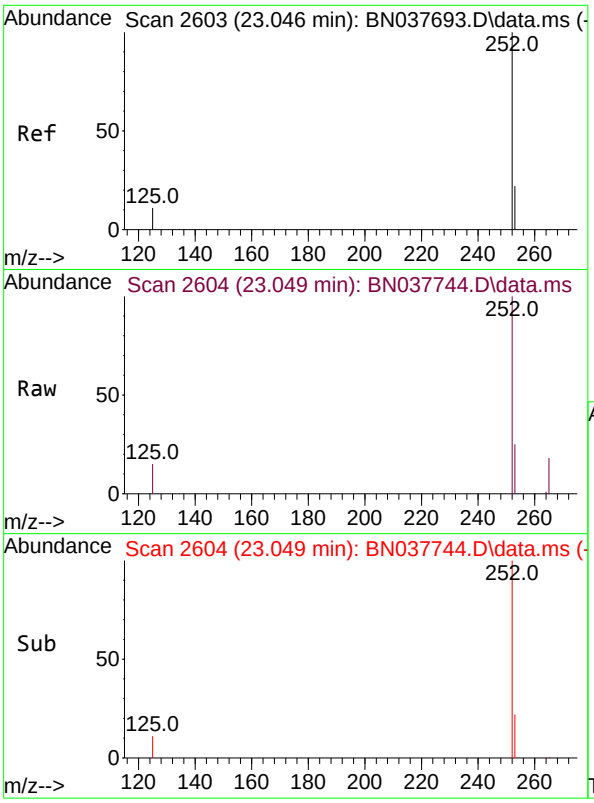




#36
Indeno(1,2,3-cd)pyrene
Concen: 0.395 ng
RT: 26.139 min Scan# 3661
Delta R.T. -0.003 min
Lab File: BN037744.D
Acq: 17 Sep 2025 13:59

Tgt Ion:276 Resp: 23199

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 276 | 100 | | |
| 138 | 25.6 | 21.9 | 32.9 |
| 277 | 24.6 | 20.1 | 30.1 |



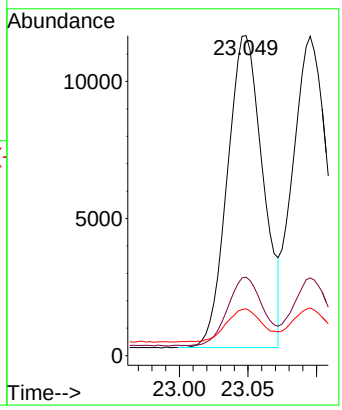


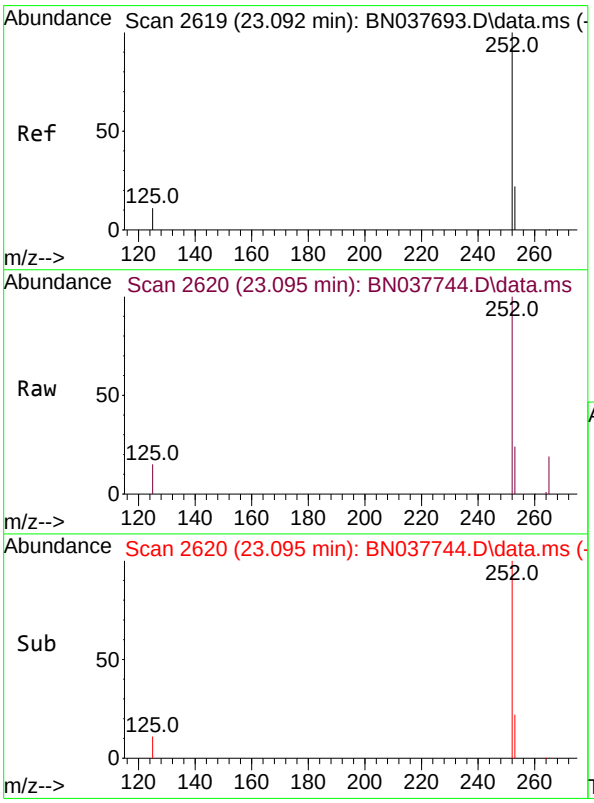

#37
Benzo(b)fluoranthene
Concen: 0.373 ng
RT: 23.049 min Scan# 2
Delta R.T. 0.003 min
Lab File: BN037744.D
Acq: 17 Sep 2025 13:59

**Instrument :**
BNA_N
**ClientSampleId :**
MW203D2-20250909MSD

Tgt Ion:252 Resp: 20529

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 24.6 | 19.4 | 29.2 |
| 125 | 14.6 | 11.2 | 16.8 |

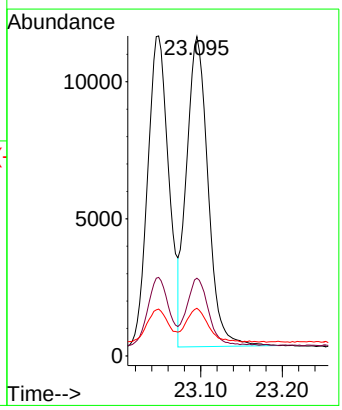


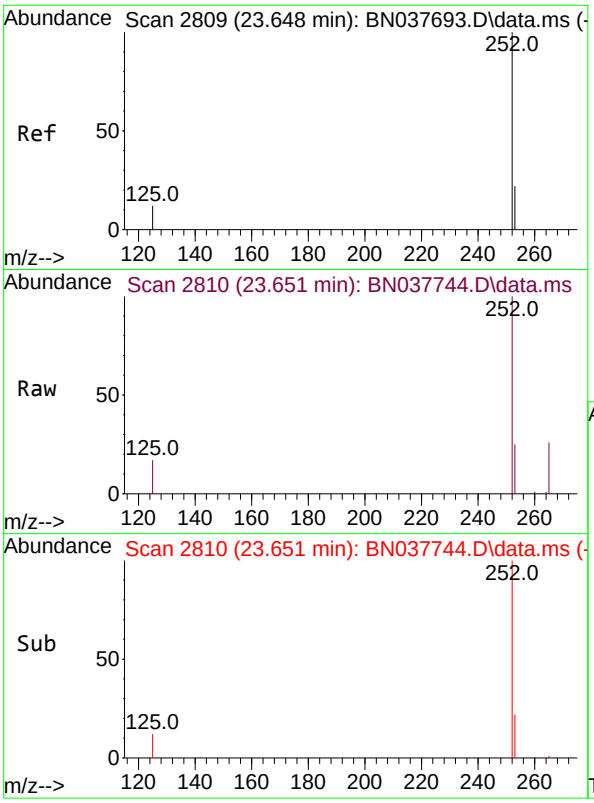




#38
Benzo(k)fluoranthene
Concen: 0.370 ng
RT: 23.095 min Scan# 2620
Delta R.T. 0.003 min
Lab File: BN037744.D
Acq: 17 Sep 2025 13:59

Tgt Ion:252 Resp: 20752

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 24.3 | 19.4 | 29.0 |
| 125 | 14.9 | 11.6 | 17.4 |



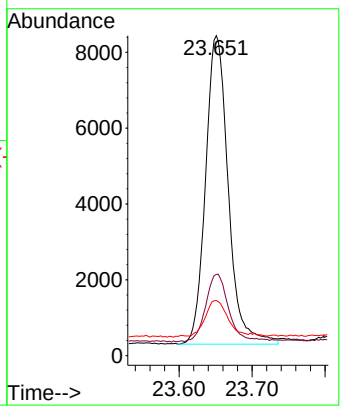


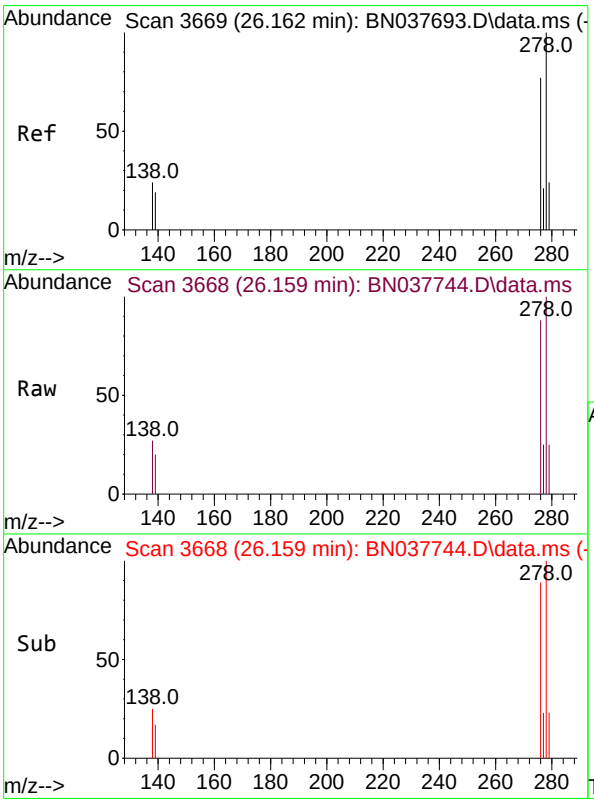

#39
Benzo(a)pyrene
Concen: 0.400 ng
RT: 23.651 min Scan# 28
Delta R.T. 0.003 min
Lab File: BN037744.D
Acq: 17 Sep 2025 13:59

**Instrument :**
BNA_N
**ClientSampleId :**
MW203D2-20250909MSD

Tgt Ion:252 Resp: 17627

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 25.4 | 20.8 | 31.2 |
| 125 | 17.2 | 13.9 | 20.9 |

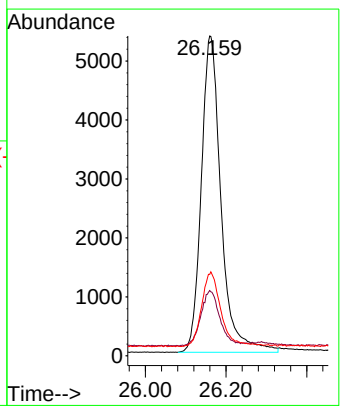


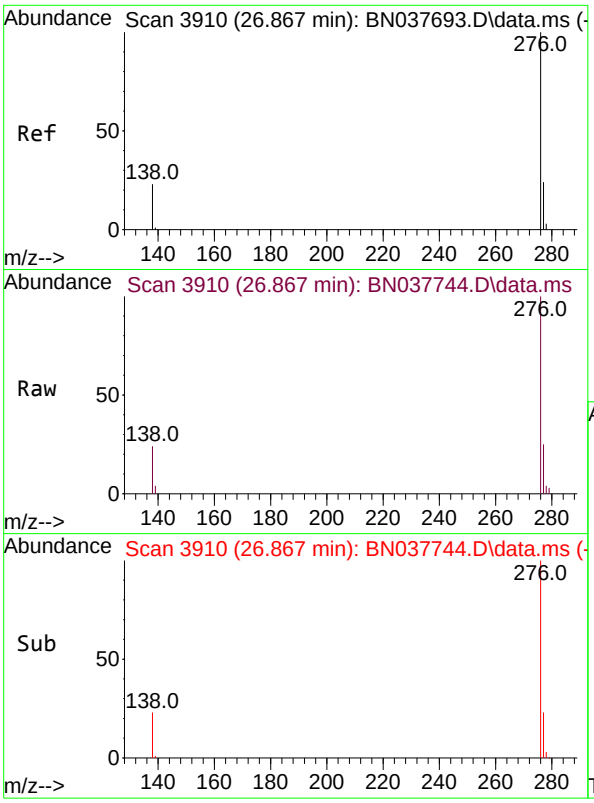




#40
Dibenzo(a,h)anthracene
Concen: 0.389 ng
RT: 26.159 min Scan# 3668
Delta R.T. -0.003 min
Lab File: BN037744.D
Acq: 17 Sep 2025 13:59

Tgt Ion:278 Resp: 18232

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 278 | 100 | | |
| 139 | 20.4 | 17.8 | 26.6 |
| 279 | 25.5 | 22.0 | 33.0 |



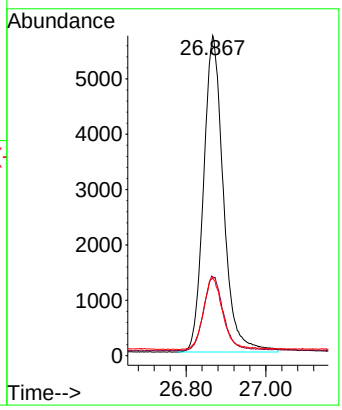



#41
Benzo(g,h,i)perylene
Concen: 0.375 ng
RT: 26.867 min Scan# 3
Delta R.T. -0.000 min
Lab File: BN037744.D
Acq: 17 Sep 2025 13:59

**Instrument :**
BNA_N
**ClientSampleId :**
MW203D2-20250909MSD

Tgt Ion:276 Resp: 19707

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 276 | 100 | | |
| 277 | 24.6 | 20.6 | 31.0 |
| 138 | 24.4 | 20.2 | 30.2 |



Raw Data: **BN037773.D**

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

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | AECOM Technical Services, Inc. | Date Collected: | 09/11/25 |
| Project: | NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258 | Date Received: | 09/12/25 |
| Client Sample ID: | RE103D2-20250911MSD | SDG No.: | Q3095 |
| Lab Sample ID: | Q3097-03MSD | Matrix: | Water |
| Analytical Method: | SW8270ESIM | % Solid: | 0 |
| Sample Wt/Vol: | 1000 Units: mL | Final Vol: | 1000 uL |
| Soil Aliquot Vol: | uL | Test: | SVOC-SIMGroup1 |
| Extraction Type : | Decanted : N | Level : | LOW |
| Injection Volume : | GPC Factor : 1.0 | GPC Cleanup : | N PH : |
| Prep Method : | | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| BN037773.D | 1 | 09/15/25 12:00 | 09/18/25 12:25 | PB169693 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOD | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | | |
| 123-91-1 | 1,4-Dioxane | 0.73 | | 0.070 | 0.20 | 0.20 | ug/L |
| **SURROGATES** | | | | | | | |
| 7297-45-2 | 2-Methylnaphthalene-d10 | 0.28 | | 30 - 150 | | 70% | SPK: 0.4 |
| 93951-69-0 | Fluoranthene-d10 | 0.36 | | 30 - 150 | | 90% | SPK: 0.4 |
| 4165-60-0 | Nitrobenzene-d5 | 0.33 | | 55 - 111 | | 82% | SPK: 0.4 |
| 321-60-8 | 2-Fluorobiphenyl | 0.31 | | 53 - 106 | | 76% | SPK: 0.4 |
| 1718-51-0 | Terphenyl-d14 | 0.41 | | 58 - 132 | | 101% | SPK: 0.4 |
| **INTERNAL STANDARDS** | | | | | | | |
| 3855-82-1 | 1,4-Dichlorobenzene-d4 | 7160 | 7.833 | | | | |
| 1146-65-2 | Naphthalene-d8 | 19100 | 10.637 | | | | |
| 15067-26-2 | Acenaphthene-d10 | 8490 | 14.484 | | | | |
| 1517-22-2 | Phenanthrene-d10 | 14200 | 17.235 | | | | |
| 1719-03-5 | Chrysene-d12 | 12000 | 21.411 | | | | |
| 1520-96-3 | Perylene-d12 | 11700 | 23.747 | | | | |

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\BN091725\
Data File : BN037773.D
Acq On : 18 Sep 2025 12:25
Operator : RC/JU
Sample : Q3097-03MSD
Misc :
ALS Vial : 34 Sample Multiplier: 1

**Instrument :**
BNA_N
**ClientSampleId :**
RE103D2-20250911MSD

Quant Time: Sep 18 12:59:32 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN091125.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Sep 11 14:20:01 2025
Response via : Initial Calibration

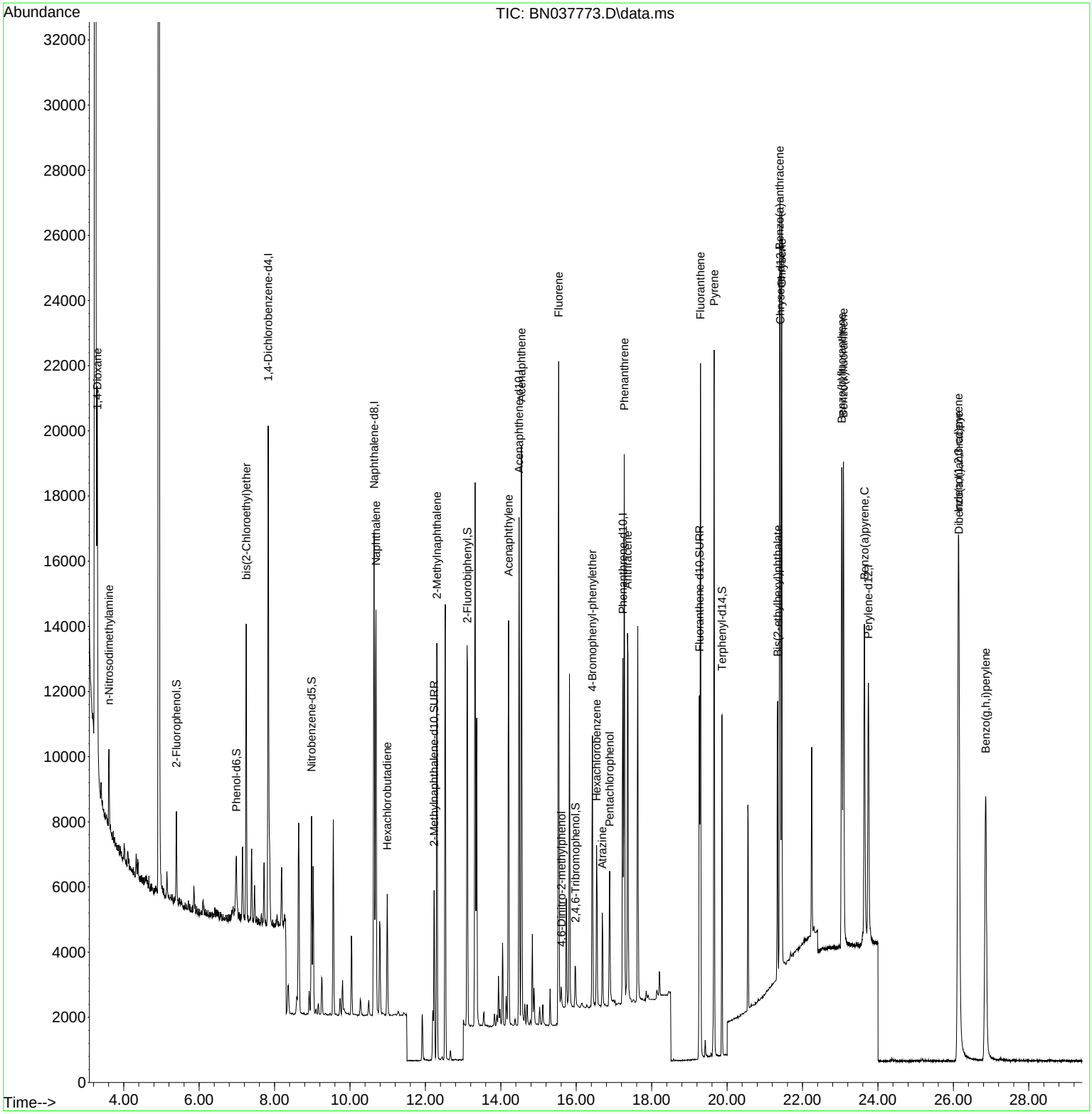
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) 1,4-Dichlorobenzene-d4 | 7.833 | 152 | 7159 | 0.400 | ng | 0.00 |
| 7) Naphthalene-d8 | 10.637 | 136 | 19099 | 0.400 | ng | -0.01 |
| 13) Acenaphthene-d10 | 14.484 | 164 | 8494 | 0.400 | ng | -0.01 |
| 19) Phenanthrene-d10 | 17.235 | 188 | 14218 | 0.400 | ng | # 0.00 |
| 29) Chrysene-d12 | 21.411 | 240 | 11982 | 0.400 | ng | # 0.00 |
| 35) Perylene-d12 | 23.747 | 264 | 11726 | 0.400 | ng | # 0.00 |
| System Monitoring Compounds | | | | | | |
| 4) 2-Fluorophenol | 5.399 | 112 | 2162 | 0.132 | ng | 0.00 |
| 5) Phenol-d6 | 6.988 | 99 | 1603 | 0.075 | ng | 0.00 |
| 8) Nitrobenzene-d5 | 8.982 | 82 | 4572 | 0.327 | ng | -0.01 |
| 11) 2-Methylnaphthalene-d10 | 12.232 | 152 | 7086 | 0.280 | ng | -0.01 |
| 14) 2,4,6-Tribromophenol | 15.982 | 330 | 876 | 0.395 | ng | 0.00 |
| 15) 2-Fluorobiphenyl | 13.115 | 172 | 10884 | 0.306 | ng | 0.00 |
| 27) Fluoranthene-d10 | 19.266 | 212 | 12926 | 0.362 | ng | 0.00 |
| 31) Terphenyl-d14 | 19.866 | 244 | 9877 | 0.406 | ng | 0.00 |
| Target Compounds | | | | | | Qvalue |
| 2) 1,4-Dioxane | 3.304 | 88 | 5455 | 0.732 | ng | # 93 |
| 3) n-Nitrosodimethylamine | 3.608 | 42 | 1372 | 0.141 | ng | # 93 |
| 6) bis(2-Chloroethyl)ether | 7.248 | 93 | 6329 | 0.332 | ng | 100 |
| 9) Naphthalene | 10.690 | 128 | 16829 | 0.322 | ng | 99 |
| 10) Hexachlorobutadiene | 10.989 | 225 | 2887 | 0.306 | ng | # 98 |
| 12) 2-Methylnaphthalene | 12.303 | 142 | 9108 | 0.282 | ng | 100 |
| 16) Acenaphthylene | 14.206 | 152 | 13370 | 0.343 | ng | 99 |
| 17) Acenaphthene | 14.548 | 154 | 8415 | 0.319 | ng | 99 |
| 18) Fluorene | 15.535 | 166 | 10028 | 0.314 | ng | 100 |
| 20) 4,6-Dinitro-2-methylph... | 15.609 | 198 | 468 | 0.355 | ng | 94 |
| 21) 4-Bromophenyl-phenylether | 16.429 | 248 | 3385 | 0.365 | ng | # 87 |
| 22) Hexachlorobenzene | 16.540 | 284 | 3993 | 0.374 | ng | 98 |
| 23) Atrazine | 16.689 | 200 | 2440 | 0.414 | ng | # 90 |
| 24) Pentachlorophenol | 16.888 | 266 | 2303 | 0.744 | ng | 97 |
| 25) Phenanthrene | 17.273 | 178 | 16893 | 0.377 | ng | 99 |
| 26) Anthracene | 17.359 | 178 | 14220 | 0.359 | ng | 99 |
| 28) Fluoranthene | 19.294 | 202 | 18446 | 0.376 | ng | 99 |
| 30) Pyrene | 19.657 | 202 | 18763 | 0.400 | ng | 100 |
| 32) Benzo(a)anthracene | 21.393 | 228 | 17097 | 0.409 | ng | 99 |
| 33) Chrysene | 21.447 | 228 | 18729 | 0.418 | ng | 98 |
| 34) Bis(2-ethylhexyl)phtha... | 21.339 | 149 | 5916 | 0.477 | ng | 99 |
| 36) Indeno(1,2,3-cd)pyrene | 26.130 | 276 | 22920 | 0.465 | ng | 99 |
| 37) Benzo(b)fluoranthene | 23.040 | 252 | 19407 | 0.420 | ng | 98 |
| 38) Benzo(k)fluoranthene | 23.086 | 252 | 19956 | 0.424 | ng | 98 |
| 39) Benzo(a)pyrene | 23.642 | 252 | 15734 | 0.426 | ng | 98 |
| 40) Dibenzo(a,h)anthracene | 26.148 | 278 | 17896 | 0.455 | ng | 97 |
| 41) Benzo(g,h,i)perylene | 26.855 | 276 | 19134 | 0.433 | ng | 98 |

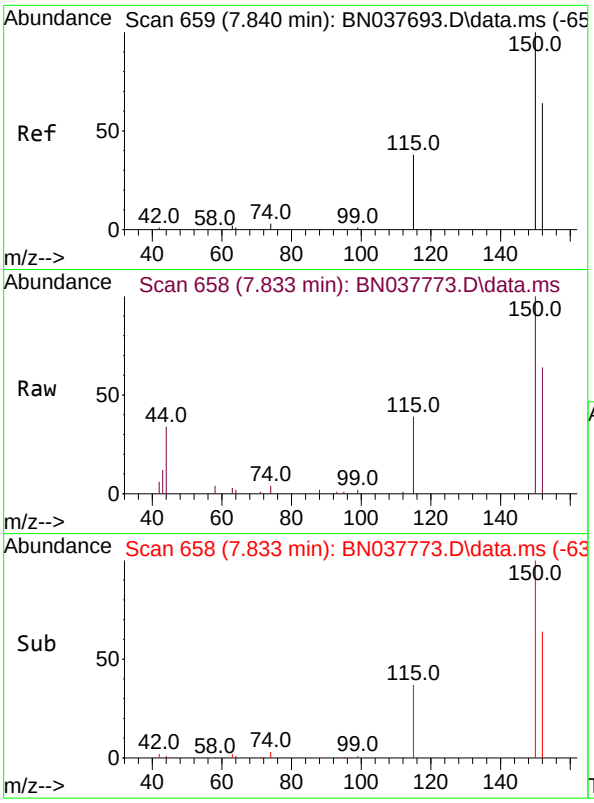
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN091725\
Data File : BN037773.D
Acq On : 18 Sep 2025 12:25
Operator : RC/JU
Sample : Q3097-03MSD
Misc :
ALS Vial : 34 Sample Multiplier: 1

**Instrument :**
BNA_N
**ClientSampleId :**
RE103D2-20250911MSD

Quant Time: Sep 18 12:59:32 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN091125.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Sep 11 14:20:01 2025
Response via : Initial Calibration



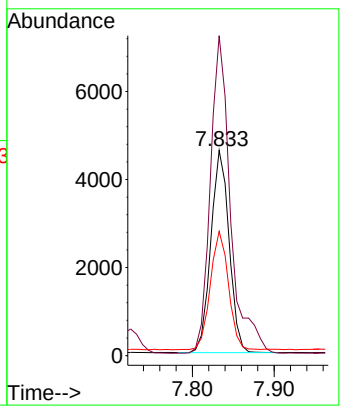


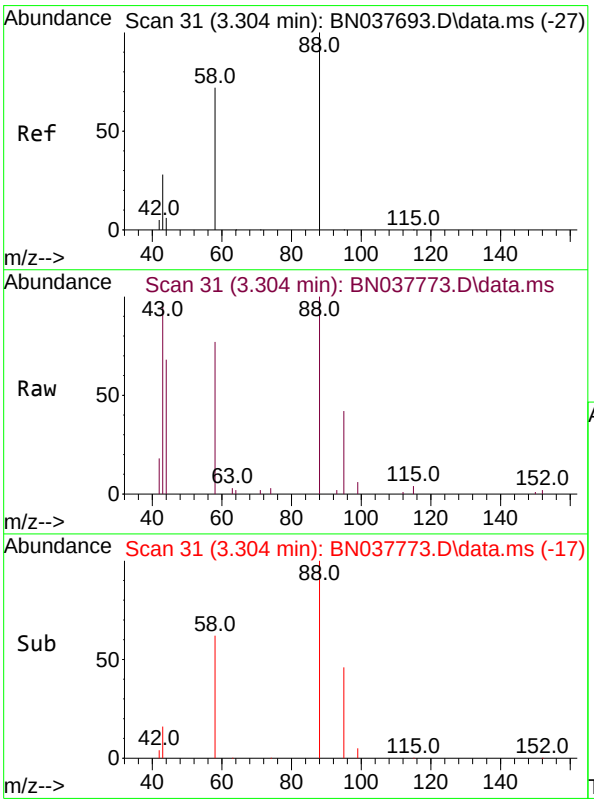

#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.833 min Scan# 6
Delta R.T. -0.007 min
Lab File: BN037773.D
Acq: 18 Sep 2025 12:25

**Instrument :**
BNA_N
**ClientSampleId :**
RE103D2-20250911MSD

Tgt Ion:152 Resp: 7159

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 150 | 155.9 | 124.5 | 186.7 |
| 115 | 60.5 | 49.2 | 73.8 |

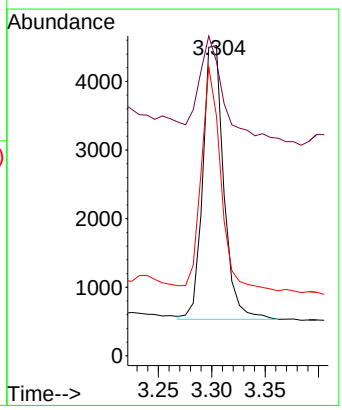


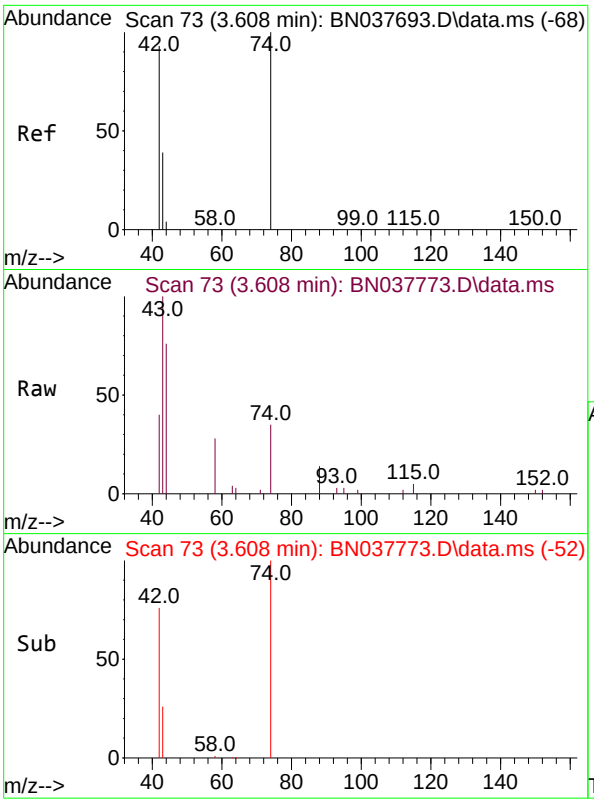




#2
1,4-Dioxane
Concen: 0.732 ng
RT: 3.304 min Scan# 31
Delta R.T. -0.000 min
Lab File: BN037773.D
Acq: 18 Sep 2025 12:25

Tgt Ion: 88 Resp: 5455

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 88 | 100 | | |
| 43 | 45.0 | 26.8 | 40.2# |
| 58 | 76.7 | 61.9 | 92.9 |



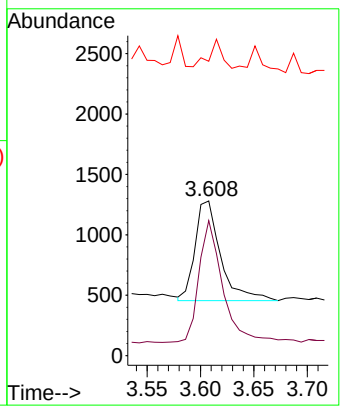


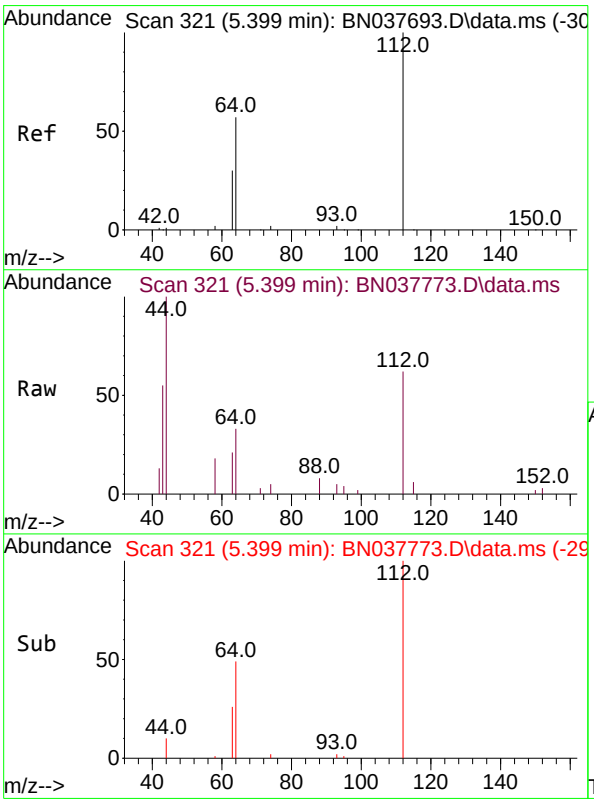

#3
n-Nitrosodimethylamine
Concen: 0.141 ng
RT: 3.608 min Scan# 7
Delta R.T. -0.000 min
Lab File: BN037773.D
Acq: 18 Sep 2025 12:25

**Instrument :**
BNA_N
**ClientSampleId :**
RE103D2-20250911MSD

Tgt Ion: 42 Resp: 1372

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 42 | 100 | | |
| 74 | 114.1 | 86.0 | 129.0 |
| 44 | 15.3 | 8.4 | 12.6# |

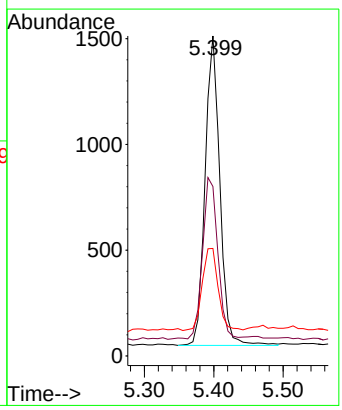


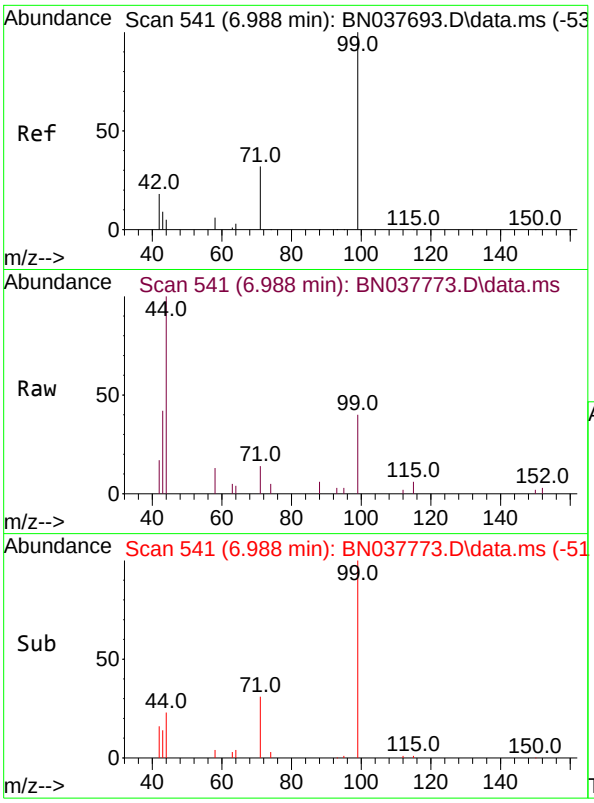




#4
2-Fluorophenol
Concen: 0.132 ng
RT: 5.399 min Scan# 321
Delta R.T. -0.000 min
Lab File: BN037773.D
Acq: 18 Sep 2025 12:25

Tgt Ion:112 Resp: 2162

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 112 | 100 | | |
| 64 | 54.6 | 44.9 | 67.3 |
| 63 | 28.6 | 24.7 | 37.1 |



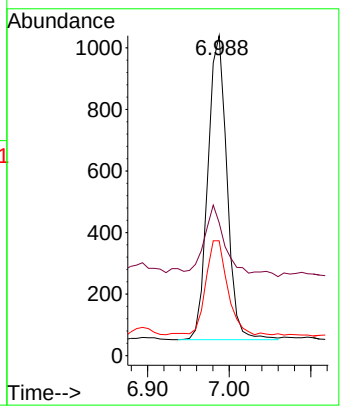


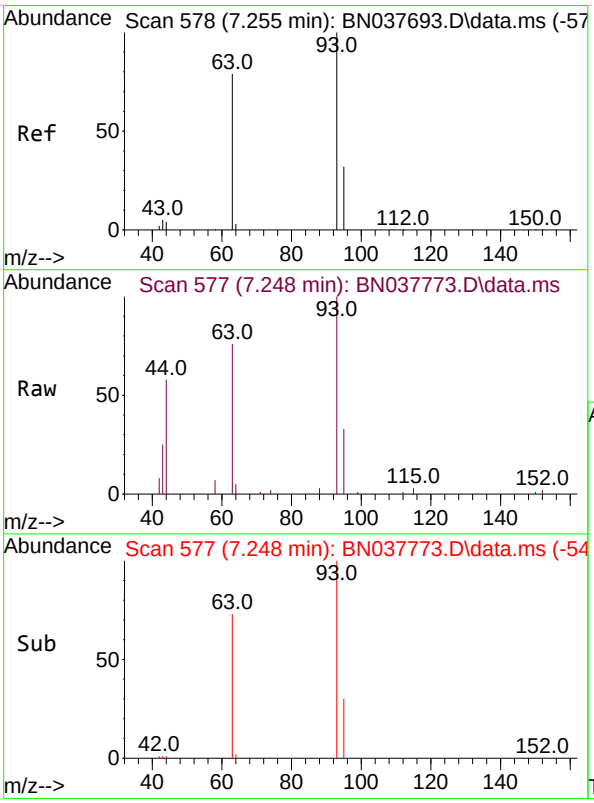

#5
Phenol-d6
Concen: 0.075 ng
RT: 6.988 min Scan# 54
Delta R.T. -0.000 min
Lab File: BN037773.D
Acq: 18 Sep 2025 12:25

**Instrument :**
BNA_N
**ClientSampleId :**
RE103D2-20250911MSD

Tgt Ion: 99 Resp: 1603

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 99 | 100 | | |
| 42 | 22.1 | 16.6 | 24.8 |
| 71 | 36.1 | 26.7 | 40.1 |

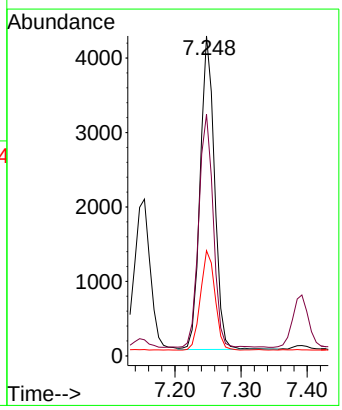


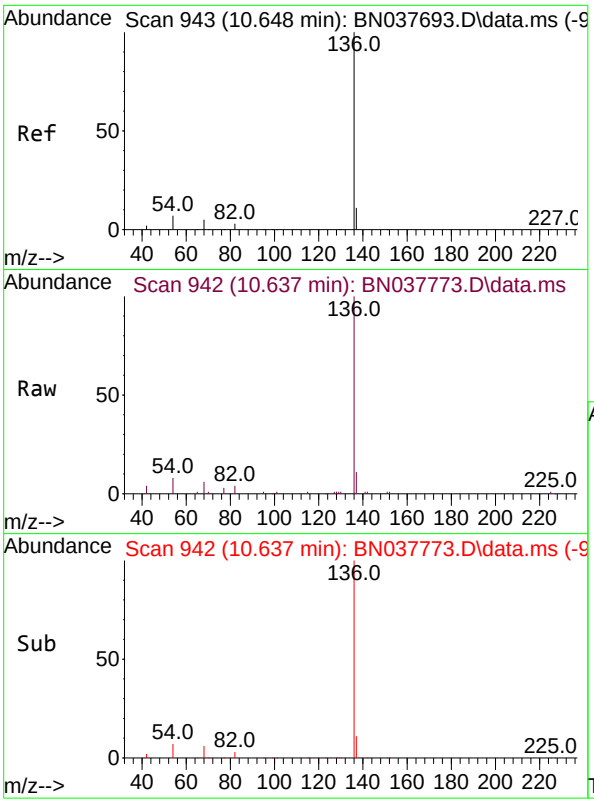




#6
bis(2-Chloroethyl)ether
Concen: 0.332 ng
RT: 7.248 min Scan# 577
Delta R.T. -0.007 min
Lab File: BN037773.D
Acq: 18 Sep 2025 12:25

Tgt Ion: 93 Resp: 6329

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 93 | 100 | | |
| 63 | 75.4 | 60.6 | 90.8 |
| 95 | 32.2 | 26.0 | 39.0 |



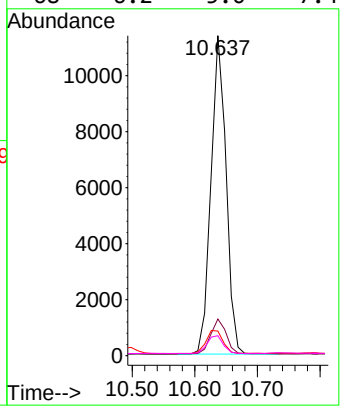


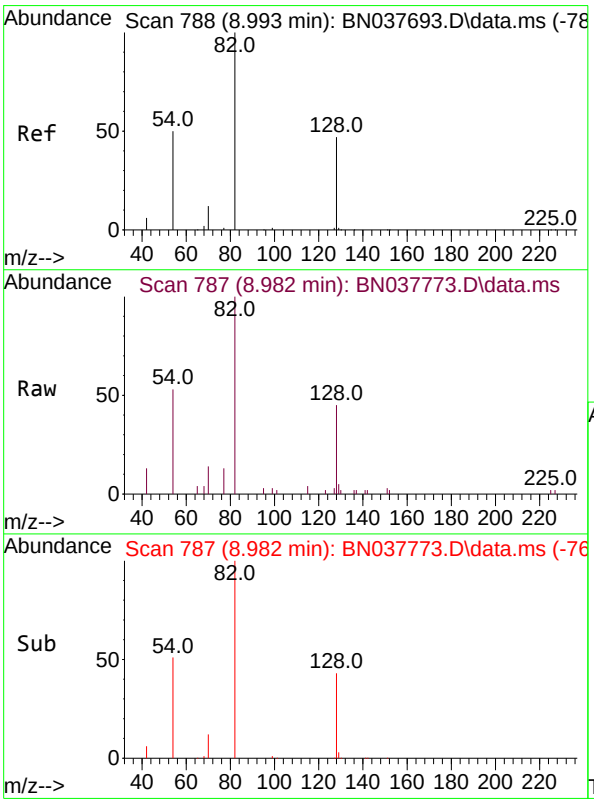

#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.637 min Scan# 94
Delta R.T. -0.011 min
Lab File: BN037773.D
Acq: 18 Sep 2025 12:25

**Instrument :**
BNA_N
**ClientSampleId :**
RE103D2-20250911MSD

Tgt Ion:136 Resp: 19099

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 136 | 100 | | |
| 137 | 11.4 | 9.1 | 13.7 |
| 54 | 7.7 | 6.3 | 9.5 |
| 68 | 6.2 | 5.0 | 7.4 |

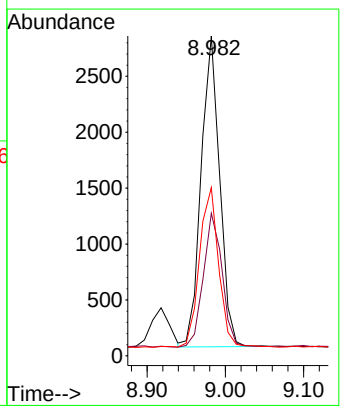


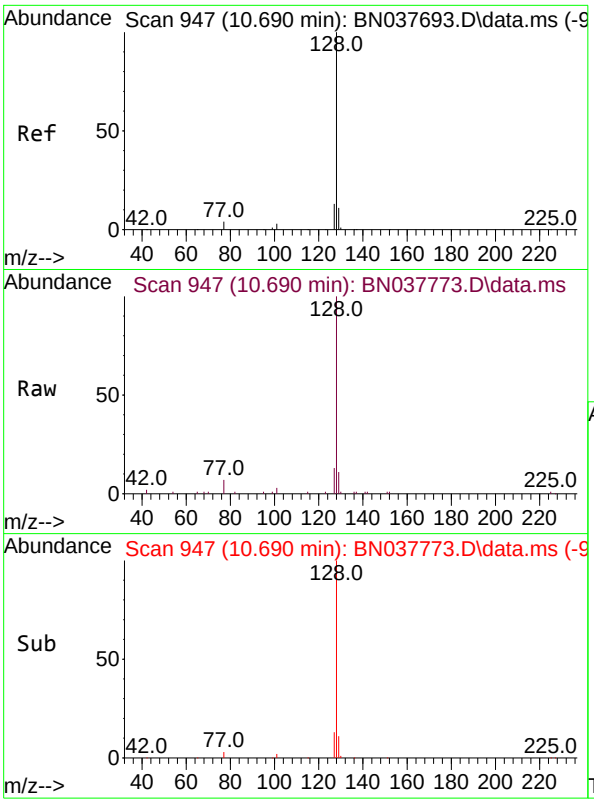




#8
Nitrobenzene-d5
Concen: 0.327 ng
RT: 8.982 min Scan# 787
Delta R.T. -0.011 min
Lab File: BN037773.D
Acq: 18 Sep 2025 12:25

Tgt Ion: 82 Resp: 4572

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 82 | 100 | | |
| 128 | 44.6 | 38.3 | 57.5 |
| 54 | 52.6 | 41.4 | 62.2 |



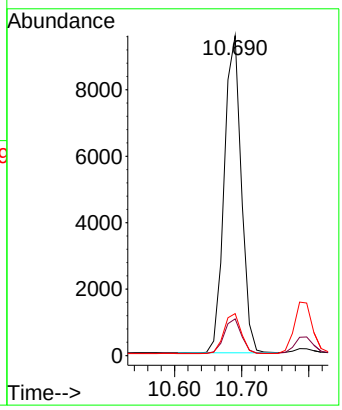


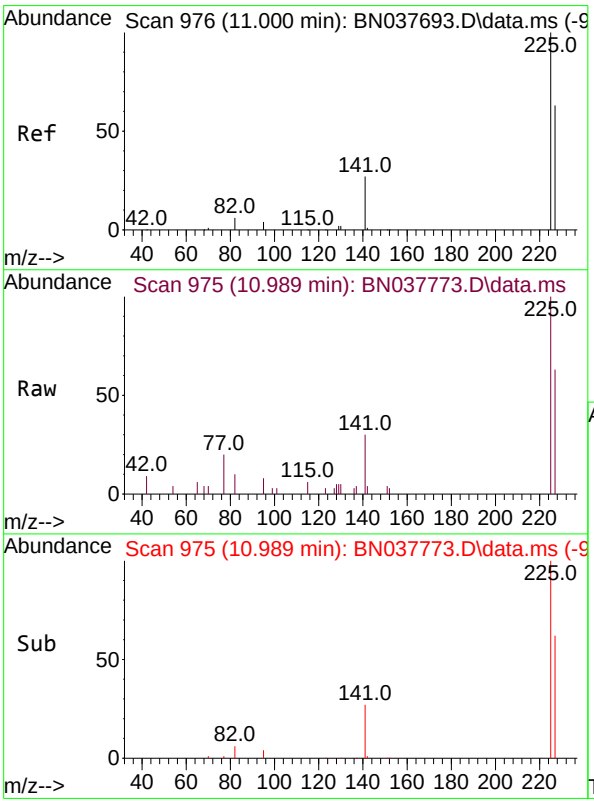

#9
Naphthalene
Concen: 0.322 ng
RT: 10.690 min Scan# 94
Delta R.T. -0.000 min
Lab File: BN037773.D
Acq: 18 Sep 2025 12:25

**Instrument :**
BNA_N
**ClientSampleId :**
RE103D2-20250911MSD

Tgt Ion:128 Resp: 16829

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 128 | 100 | | |
| 129 | 11.5 | 9.1 | 13.7 |
| 127 | 13.1 | 10.9 | 16.3 |

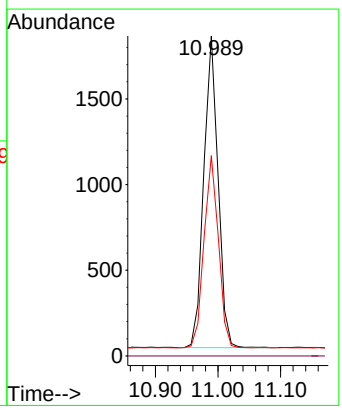


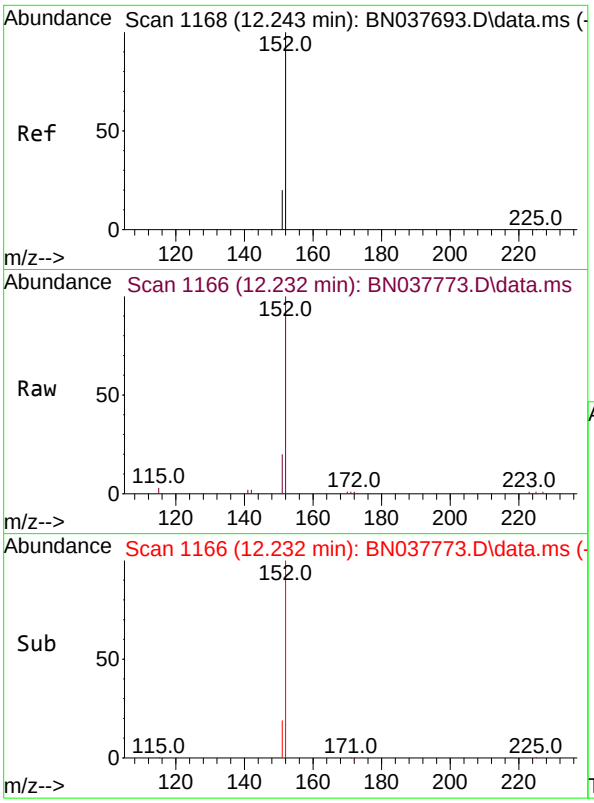




#10
Hexachlorobutadiene
Concen: 0.306 ng
RT: 10.989 min Scan# 975
Delta R.T. -0.011 min
Lab File: BN037773.D
Acq: 18 Sep 2025 12:25

Tgt Ion:225 Resp: 2887

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 225 | 100 | | |
| 223 | 0.0 | 0.0 | 0.0 |
| 227 | 62.2 | 50.9 | 76.3 |



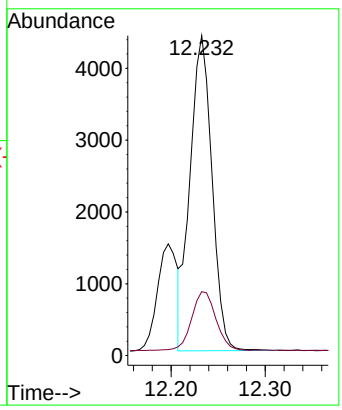


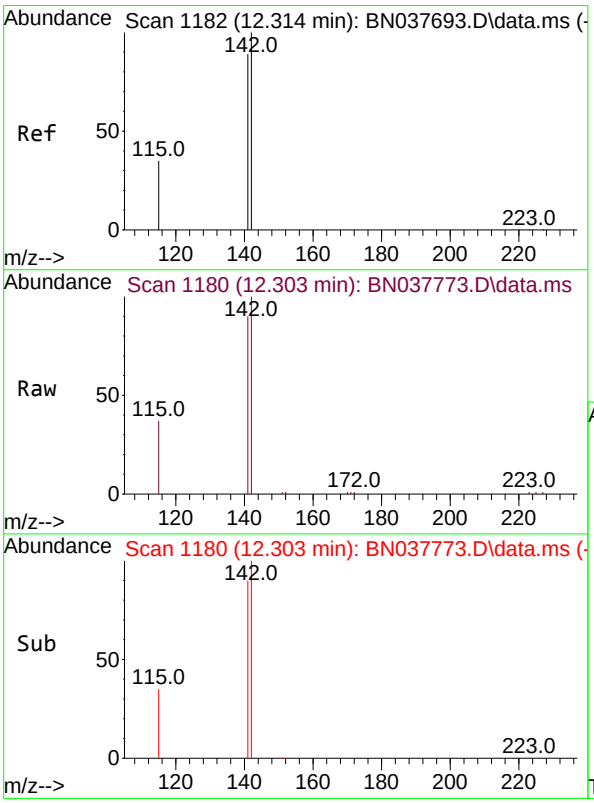

#11
2-Methylnaphthalene-d10
Concen: 0.280 ng
RT: 12.232 min Scan# 11
Delta R.T. -0.010 min
Lab File: BN037773.D
Acq: 18 Sep 2025 12:25

**Instrument :**
BNA_N
**ClientSampleId :**
RE103D2-20250911MSD

Tgt Ion:152 Resp: 7086

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

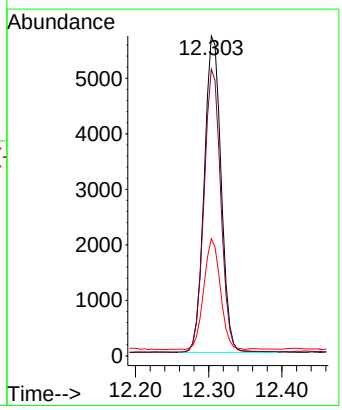


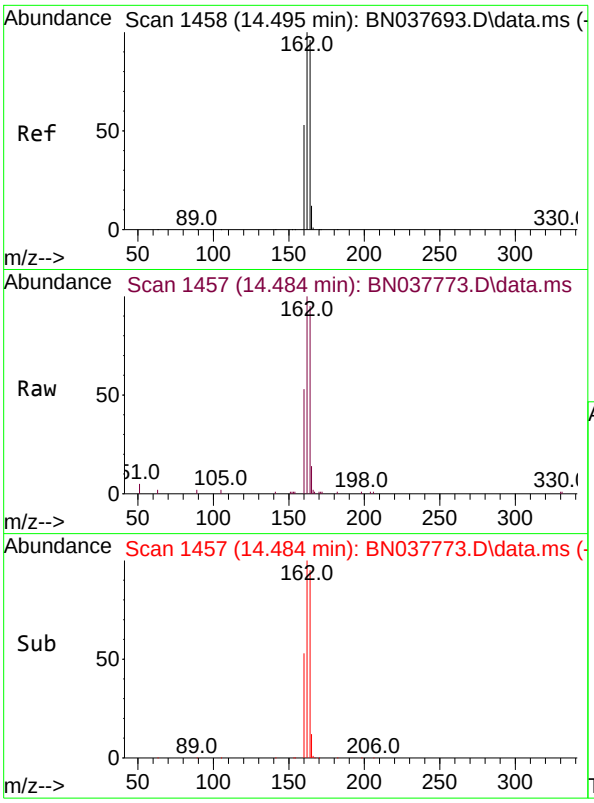




#12
2-Methylnaphthalene
Concen: 0.282 ng
RT: 12.303 min Scan# 1180
Delta R.T. -0.010 min
Lab File: BN037773.D
Acq: 18 Sep 2025 12:25

Tgt Ion:142 Resp: 9108

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 142 | 100 | | |
| 141 | 89.6 | 71.6 | 107.4 |
| 115 | 36.6 | 28.6 | 43.0 |



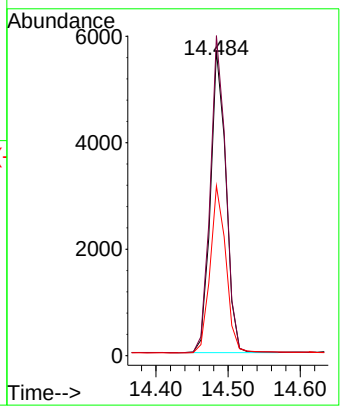


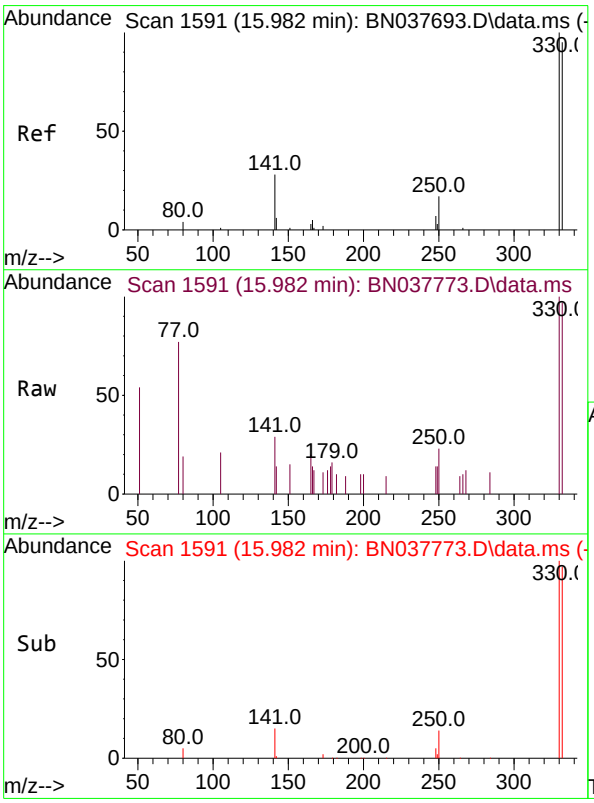

#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.484 min Scan# 14
Delta R.T. -0.011 min
Lab File: BN037773.D
Acq: 18 Sep 2025 12:25

**Instrument :**
BNA_N
**ClientSampleId :**
RE103D2-20250911MSD

Tgt Ion:164 Resp: 8494

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 164 | 100 | | |
| 162 | 105.0 | 83.1 | 124.7 |
| 160 | 55.7 | 44.3 | 66.5 |

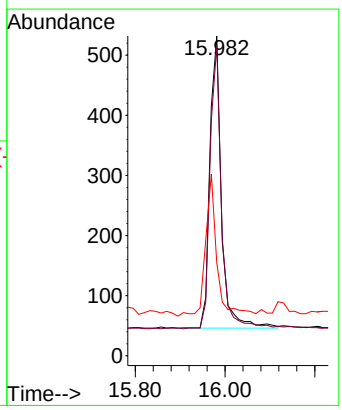


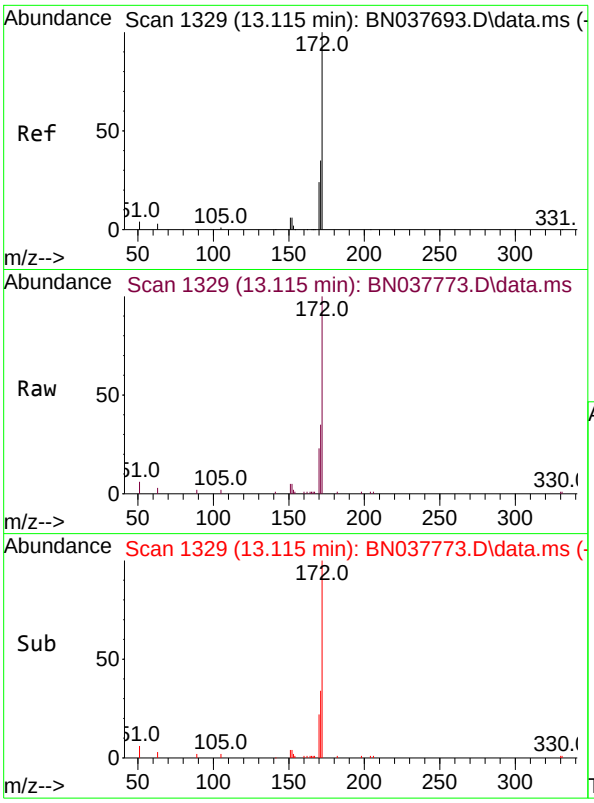




#14
2,4,6-Tribromophenol
Concen: 0.395 ng
RT: 15.982 min Scan# 1591
Delta R.T. -0.000 min
Lab File: BN037773.D
Acq: 18 Sep 2025 12:25

Tgt Ion:330 Resp: 876

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 330 | 100 | | |
| 332 | 95.3 | 75.3 | 112.9 |
| 141 | 47.4 | 35.0 | 52.4 |



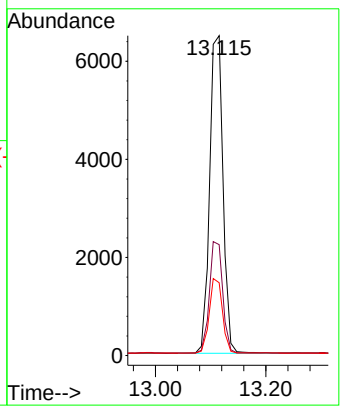


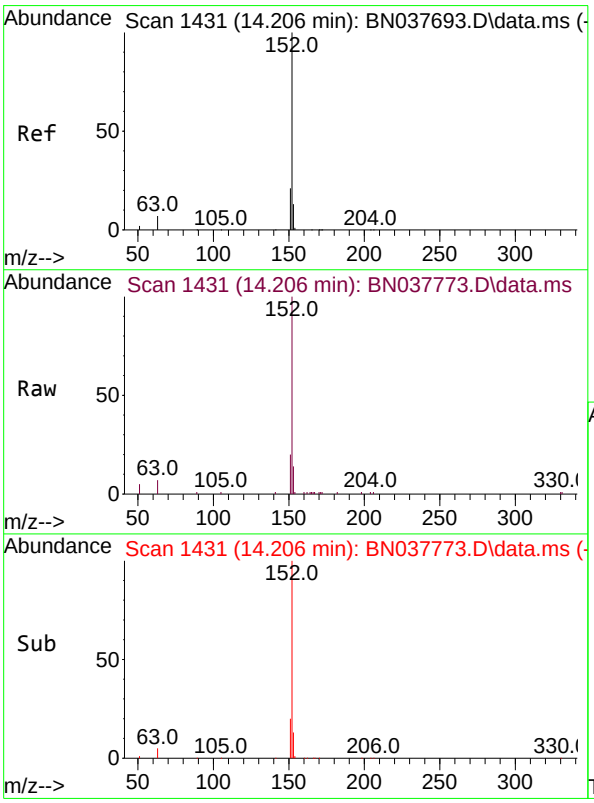

#15
2-Fluorobiphenyl
Concen: 0.306 ng
RT: 13.115 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN037773.D
Acq: 18 Sep 2025 12:25

**Instrument :**
BNA_N
**ClientSampleId :**
RE103D2-20250911MSD

Tgt Ion:172 Resp: 10884

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 172 | 100 | | |
| 171 | 34.7 | 28.6 | 43.0 |
| 170 | 22.8 | 19.8 | 29.8 |

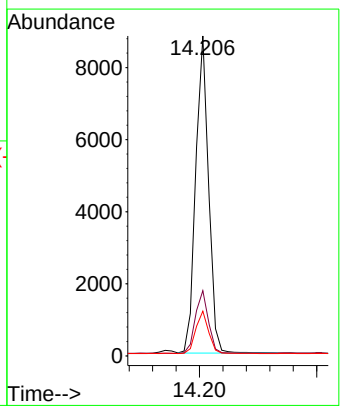


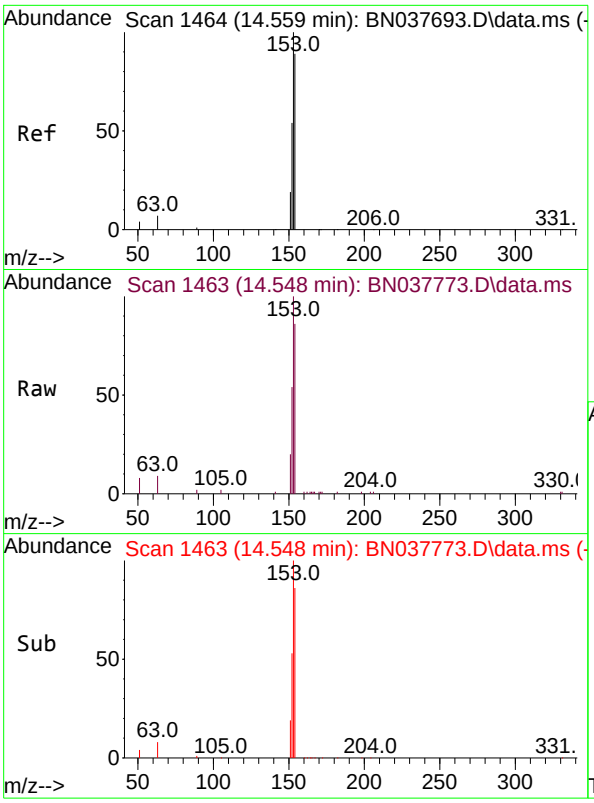




#16
Acenaphthylene
Concen: 0.343 ng
RT: 14.206 min Scan# 1431
Delta R.T. -0.000 min
Lab File: BN037773.D
Acq: 18 Sep 2025 12:25

Tgt Ion:152 Resp: 13370

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 151 | 19.9 | 16.2 | 24.2 |
| 153 | 13.3 | 10.4 | 15.6 |



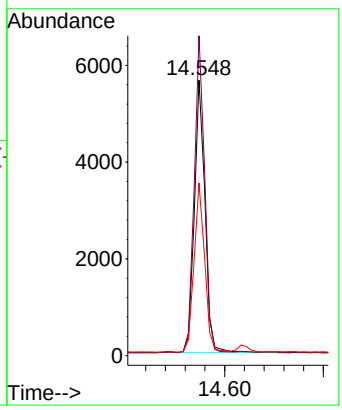


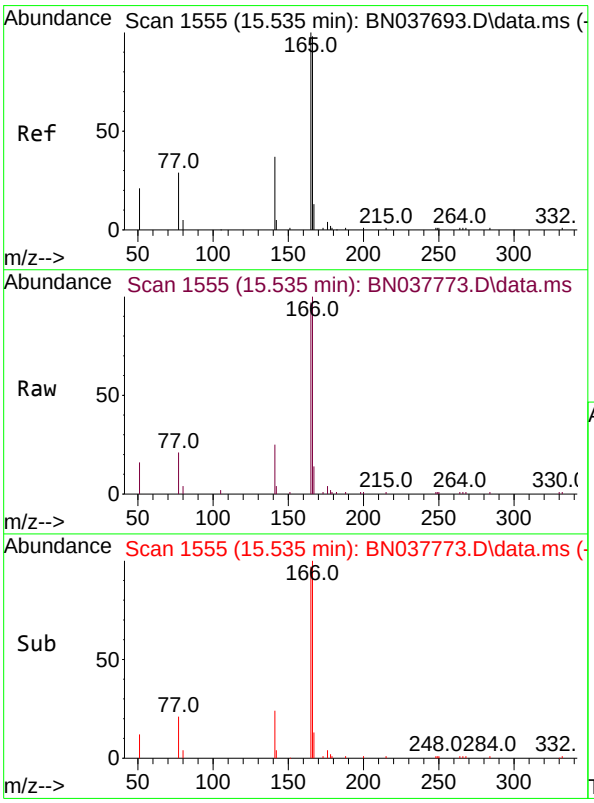

#17
Acenaphthene
Concen: 0.319 ng
RT: 14.548 min Scan# 14
Delta R.T. -0.011 min
Lab File: BN037773.D
Acq: 18 Sep 2025 12:25

**Instrument :**
BNA_N
**ClientSampleId :**
RE103D2-20250911MSD

Tgt Ion:154 Resp: 8415

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 154 | 100 | | |
| 153 | 114.0 | 89.8 | 134.8 |
| 152 | 62.0 | 50.2 | 75.2 |

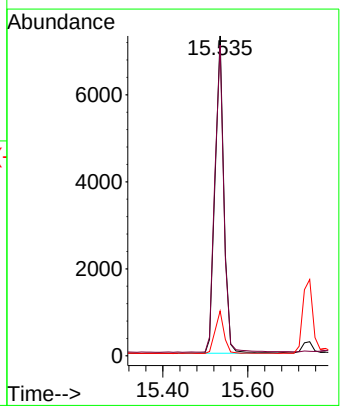


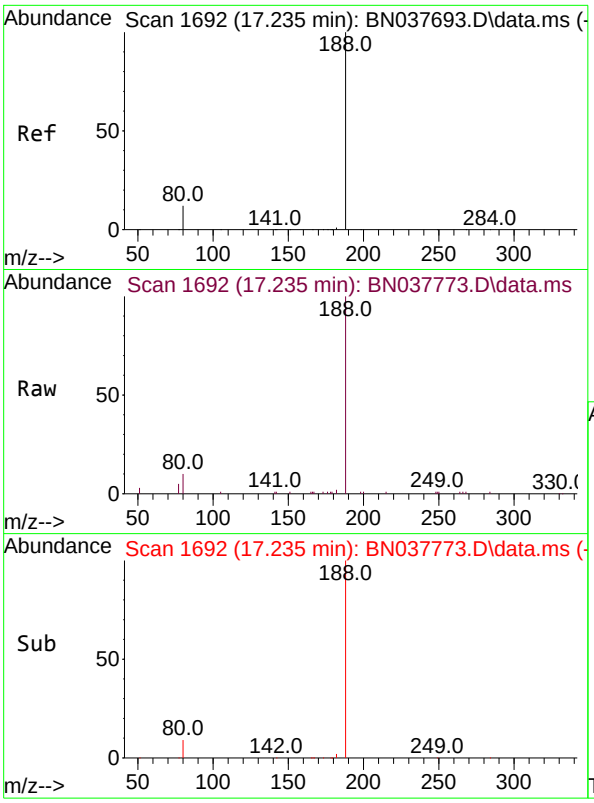




#18
Fluorene
Concen: 0.314 ng
RT: 15.535 min Scan# 1555
Delta R.T. -0.000 min
Lab File: BN037773.D
Acq: 18 Sep 2025 12:25

Tgt Ion:166 Resp: 10028

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 166 | 100 | | |
| 165 | 99.6 | 79.6 | 119.4 |
| 167 | 14.0 | 10.6 | 16.0 |



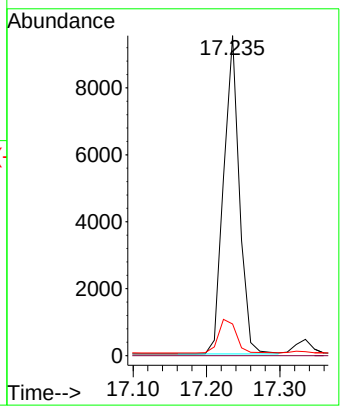


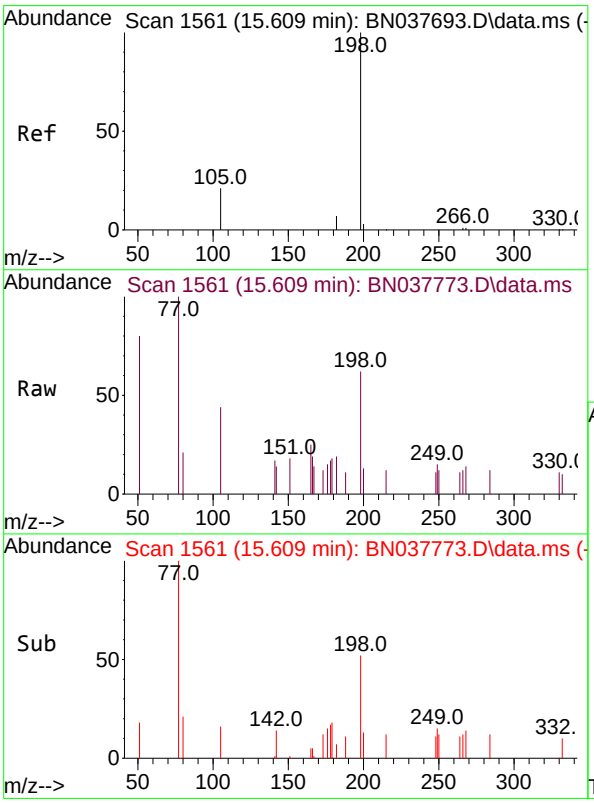

#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.235 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN037773.D
Acq: 18 Sep 2025 12:25

**Instrument :**
BNA_N
**ClientSampleId :**
RE103D2-20250911MSD

Tgt Ion:188 Resp: 14218

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 188 | 100 | | |
| 94 | 0.0 | 0.0 | 0.0 |
| 80 | 9.9 | 10.6 | 15.8# |

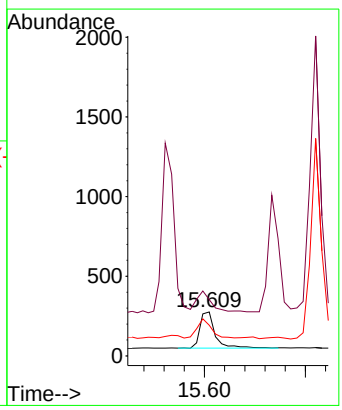


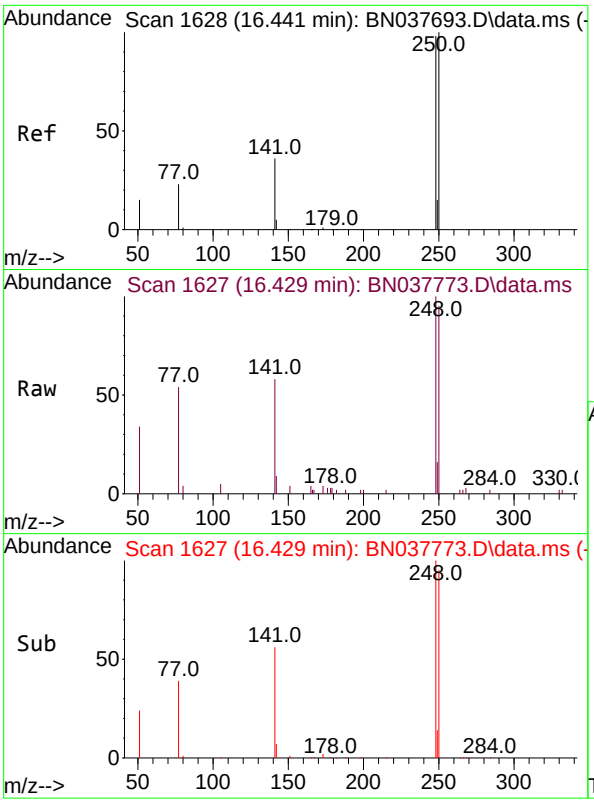




#20
4,6-Dinitro-2-methylphenol
Concen: 0.355 ng
RT: 15.609 min Scan# 1561
Delta R.T. 0.000 min
Lab File: BN037773.D
Acq: 18 Sep 2025 12:25

Tgt Ion:198 Resp: 468

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 198 | 100 | | |
| 51 | 127.9 | 95.1 | 142.7 |
| 105 | 69.9 | 53.8 | 80.6 |



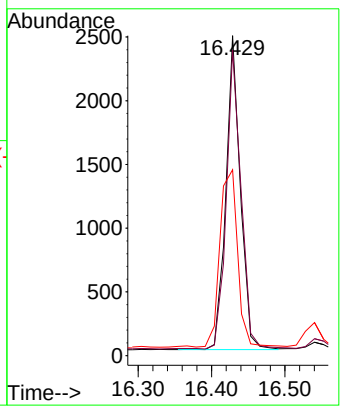


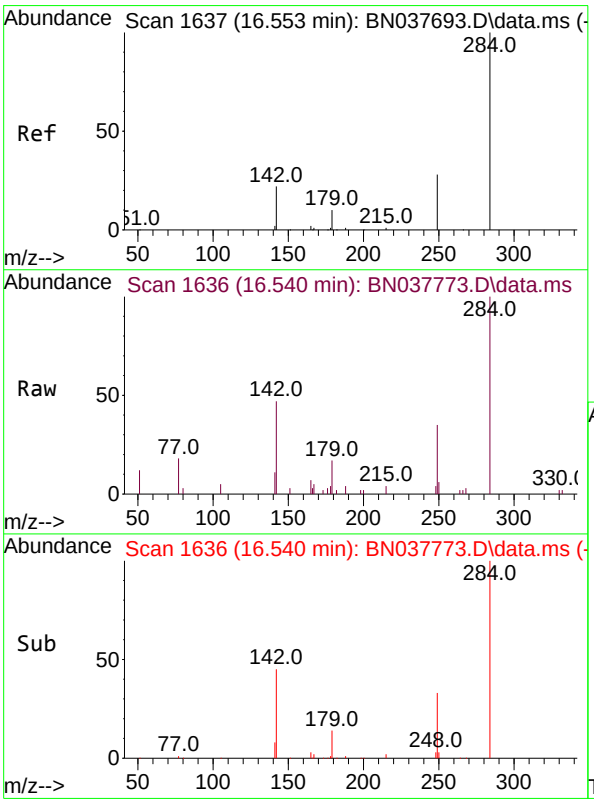

#21
4-Bromophenyl-phenylether
Concen: 0.365 ng
RT: 16.429 min Scan# 1
Delta R.T. -0.013 min
Lab File: BN037773.D
Acq: 18 Sep 2025 12:25

**Instrument :**
BNA_N
**ClientSampleId :**
RE103D2-20250911MSD

Tgt Ion:248 Resp: 3385

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 248 | 100 | | |
| 250 | 95.5 | 81.5 | 122.3 |
| 141 | 58.1 | 30.8 | 46.2# |

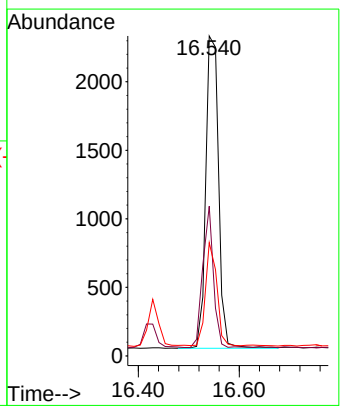


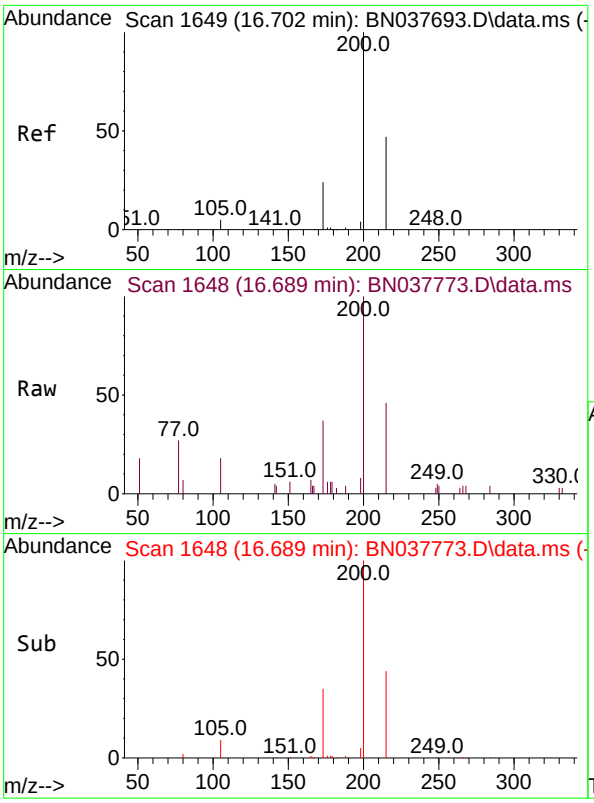




#22
Hexachlorobenzene
Concen: 0.374 ng
RT: 16.540 min Scan# 1636
Delta R.T. -0.013 min
Lab File: BN037773.D
Acq: 18 Sep 2025 12:25

Tgt Ion:284 Resp: 3993

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 284 | 100 | | |
| 142 | 37.8 | 30.9 | 46.3 |
| 249 | 29.4 | 24.8 | 37.2 |



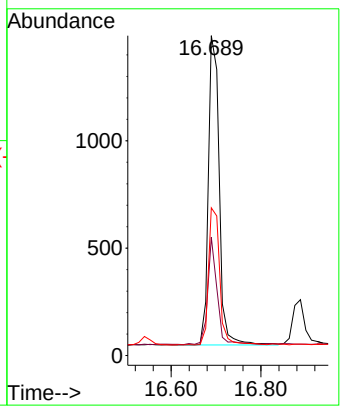


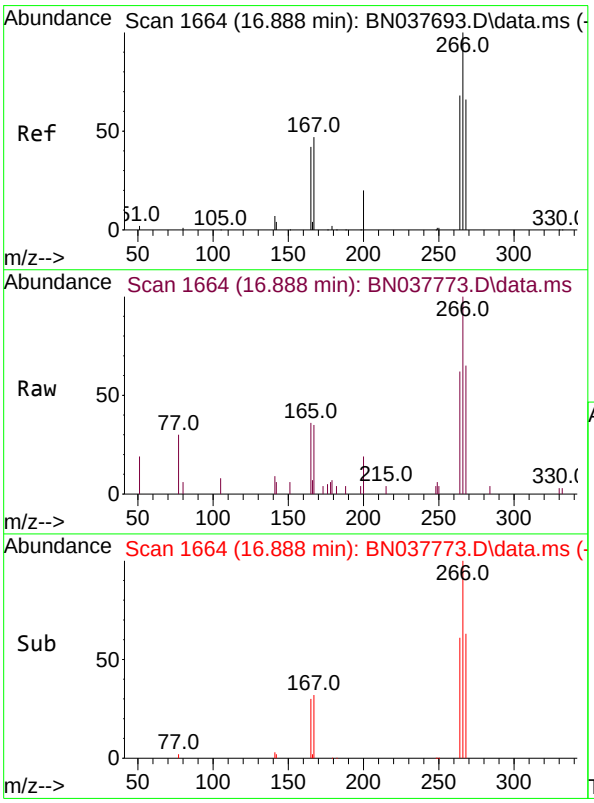

#23
Atrazine
Concen: 0.414 ng
RT: 16.689 min Scan# 1
Delta R.T. -0.013 min
Lab File: BN037773.D
Acq: 18 Sep 2025 12:25

**Instrument :**
BNA_N
**ClientSampleId :**
RE103D2-20250911MSD

Tgt Ion:200 Resp: 2440

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 200 | 100 | | |
| 173 | 37.0 | 21.4 | 32.2# |
| 215 | 46.2 | 39.2 | 58.8 |

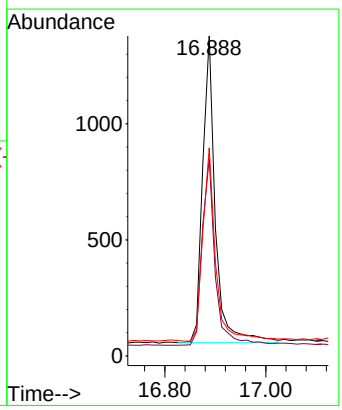


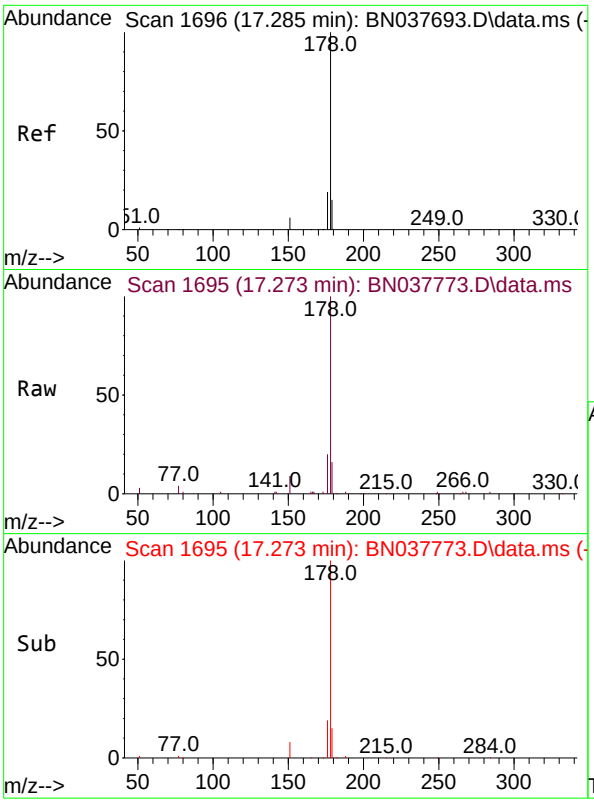




#24
Pentachlorophenol
Concen: 0.744 ng
RT: 16.888 min Scan# 1664
Delta R.T. -0.000 min
Lab File: BN037773.D
Acq: 18 Sep 2025 12:25

Tgt Ion:266 Resp: 2303

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 266 | 100 | | |
| 264 | 62.2 | 51.6 | 77.4 |
| 268 | 64.2 | 53.2 | 79.8 |



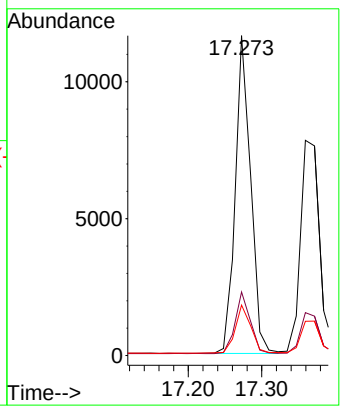


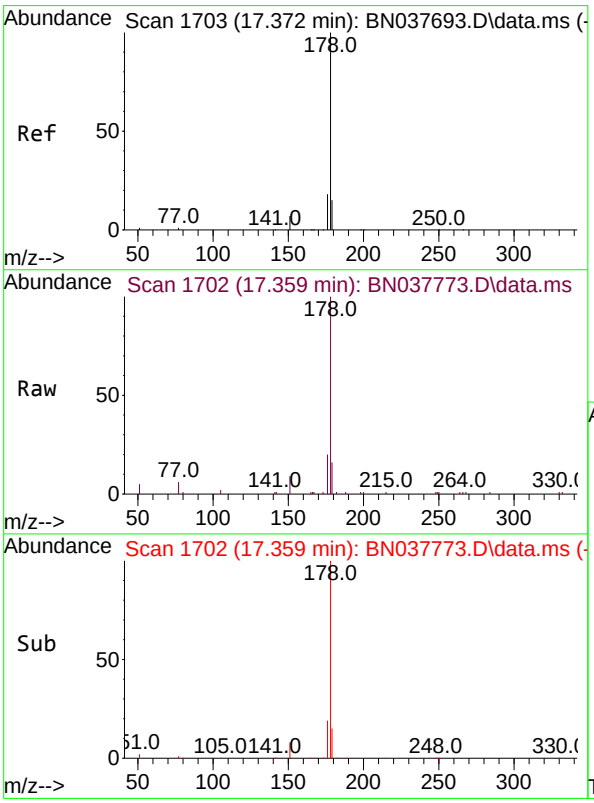

#25
Phenanthrene
Concen: 0.377 ng
RT: 17.273 min Scan# 1
Delta R.T. -0.013 min
Lab File: BN037773.D
Acq: 18 Sep 2025 12:25

**Instrument :**
BNA_N
**ClientSampleId :**
RE103D2-20250911MSD

Tgt Ion:178 Resp: 16893

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 178 | 100 | | |
| 176 | 19.0 | 15.3 | 22.9 |
| 179 | 15.8 | 12.2 | 18.2 |

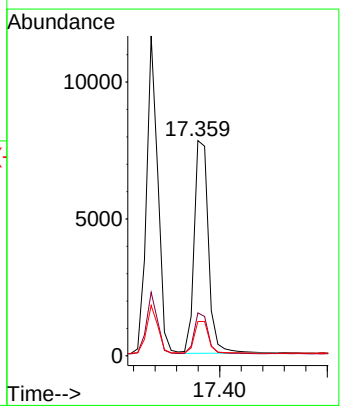


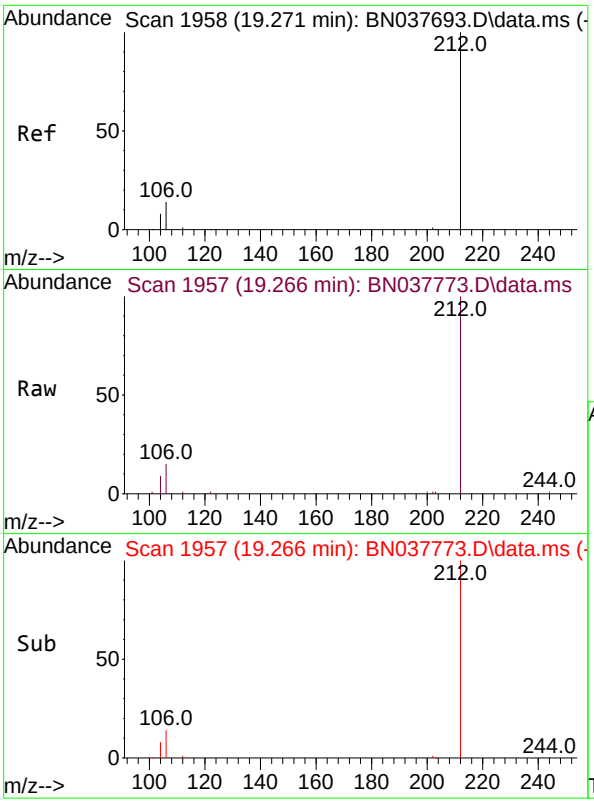




#26
Anthracene
Concen: 0.359 ng
RT: 17.359 min Scan# 1702
Delta R.T. -0.013 min
Lab File: BN037773.D
Acq: 18 Sep 2025 12:25

Tgt Ion:178 Resp: 14220

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 178 | 100 | | |
| 176 | 18.7 | 14.6 | 22.0 |
| 179 | 15.2 | 12.2 | 18.4 |



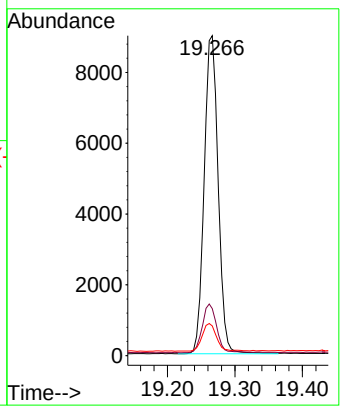


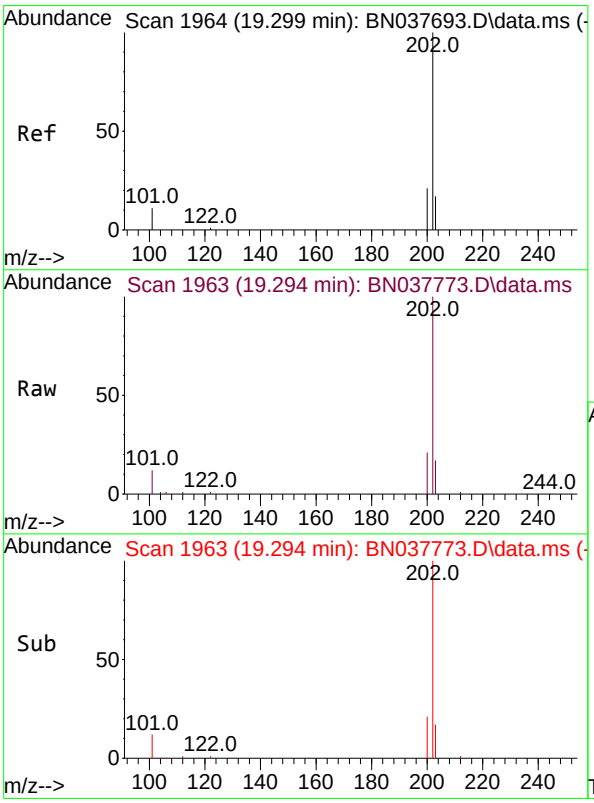

#27
Fluoranthene-d10
Concen: 0.362 ng
RT: 19.266 min Scan# 19
Delta R.T. -0.005 min
Lab File: BN037773.D
Acq: 18 Sep 2025 12:25

**Instrument :**
BNA_N
**ClientSampleId :**
RE103D2-20250911MSD

Tgt Ion:212 Resp: 12926

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 212 | 100 | | |
| 106 | 15.8 | 12.2 | 18.2 |
| 104 | 8.7 | 6.9 | 10.3 |

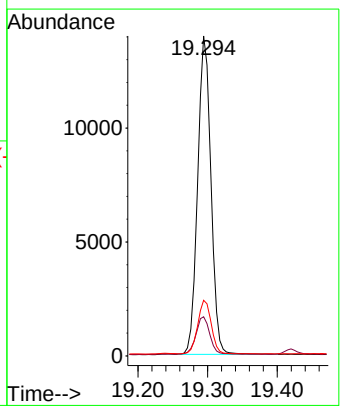


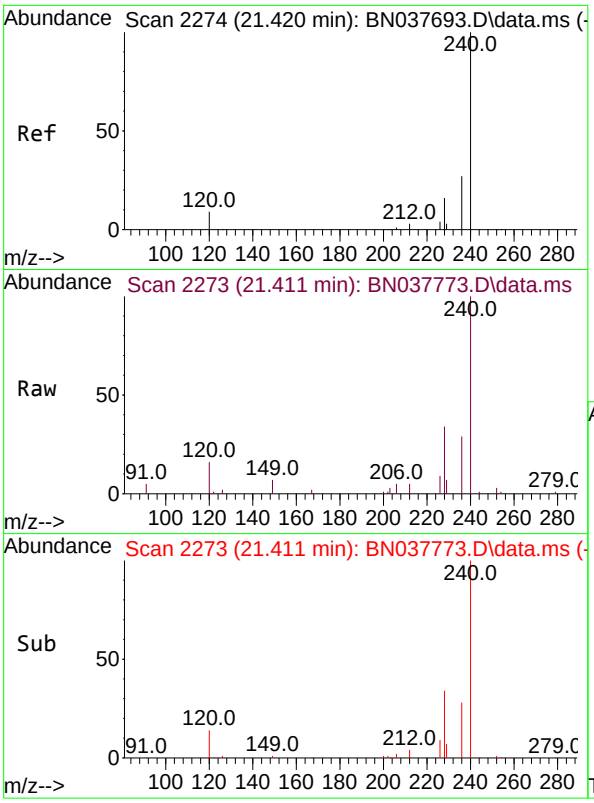




#28
Fluoranthene
Concen: 0.376 ng
RT: 19.294 min Scan# 1963
Delta R.T. -0.005 min
Lab File: BN037773.D
Acq: 18 Sep 2025 12:25

Tgt Ion:202 Resp: 18446

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 202 | 100 | | |
| 101 | 12.3 | 9.3 | 13.9 |
| 203 | 17.2 | 13.7 | 20.5 |



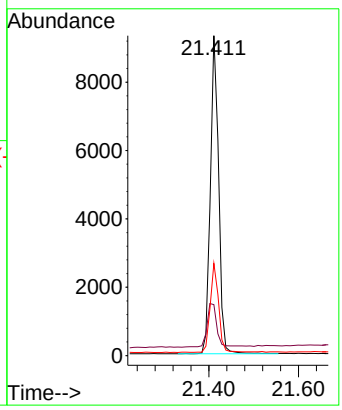


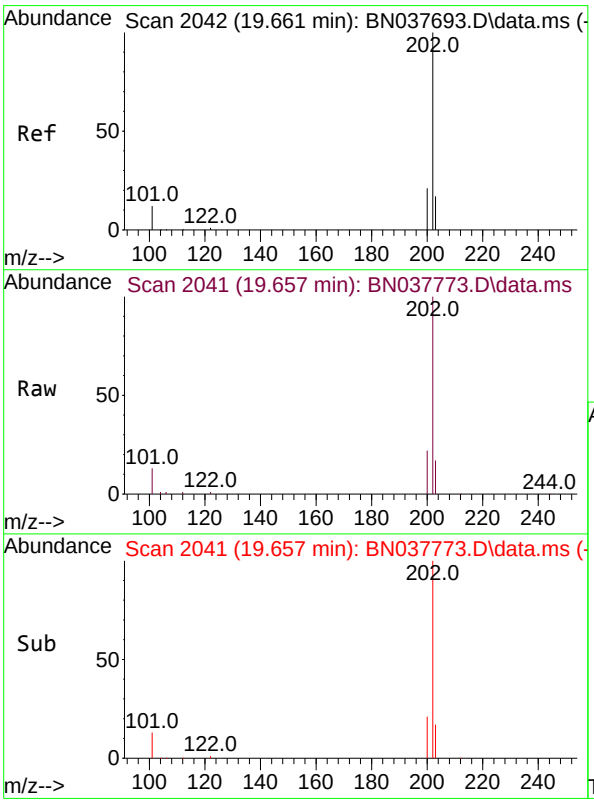

#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.411 min Scan# 2
Delta R.T. -0.009 min
Lab File: BN037773.D
Acq: 18 Sep 2025 12:25

**Instrument :**
BNA_N
**ClientSampleId :**
RE103D2-20250911MSD

Tgt Ion:240 Resp: 11982

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 240 | 100 | | |
| 120 | 15.9 | 9.2 | 13.8# |
| 236 | 28.8 | 22.6 | 33.8 |

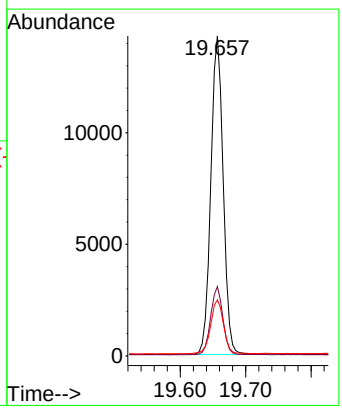


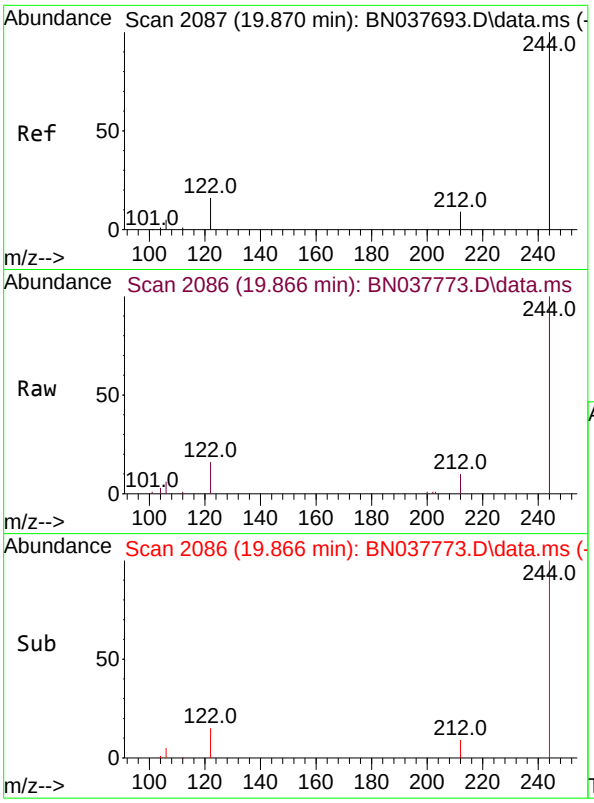




#30
Pyrene
Concen: 0.400 ng
RT: 19.657 min Scan# 2041
Delta R.T. -0.005 min
Lab File: BN037773.D
Acq: 18 Sep 2025 12:25

Tgt Ion:202 Resp: 18763

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 202 | 100 | | |
| 200 | 21.1 | 16.8 | 25.2 |
| 203 | 17.7 | 14.3 | 21.5 |



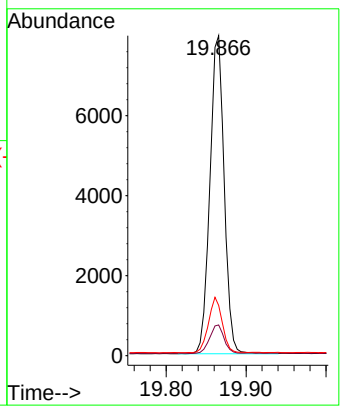


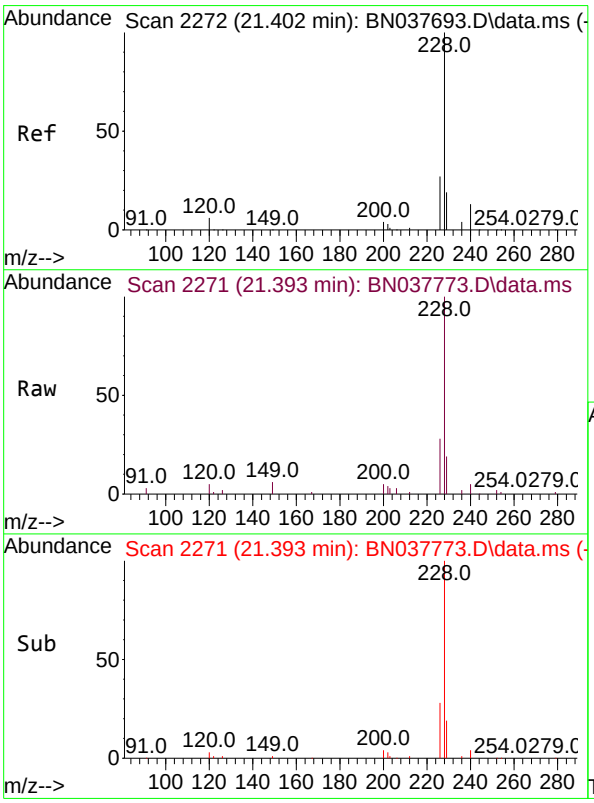

#31
Terphenyl-d14
Concen: 0.406 ng
RT: 19.866 min Scan# 2
Delta R.T. -0.005 min
Lab File: BN037773.D
Acq: 18 Sep 2025 12:25

**Instrument :**
BNA_N
**ClientSampleId :**
RE103D2-20250911MSD

Tgt Ion:244 Resp: 9877

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 244 | 100 | | |
| 212 | 9.6 | 7.5 | 11.3 |
| 122 | 15.7 | 13.2 | 19.8 |

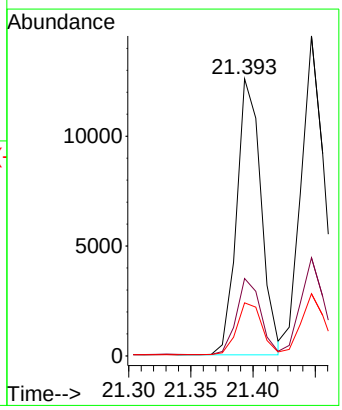


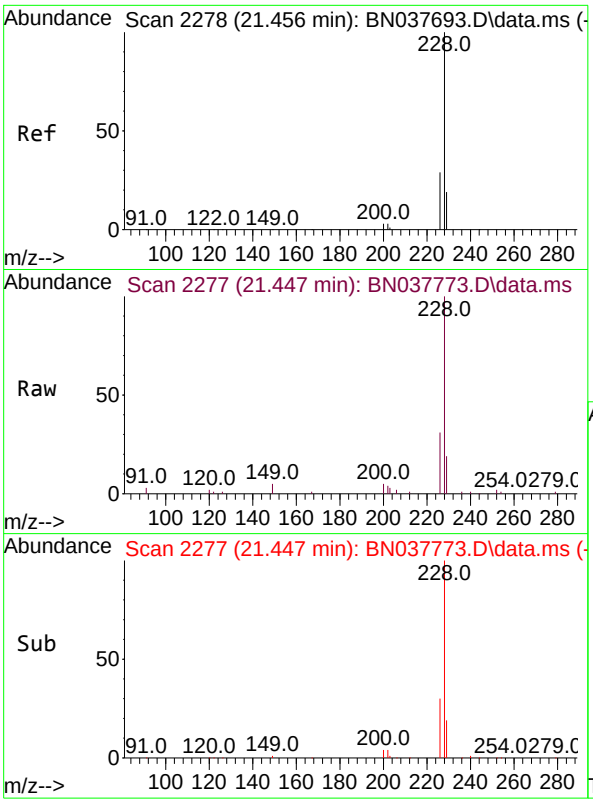




#32
Benzo(a)anthracene
Concen: 0.409 ng
RT: 21.393 min Scan# 2271
Delta R.T. -0.009 min
Lab File: BN037773.D
Acq: 18 Sep 2025 12:25

Tgt Ion:228 Resp: 17097

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 228 | 100 | | |
| 226 | 27.9 | 22.2 | 33.2 |
| 229 | 19.2 | 15.8 | 23.6 |



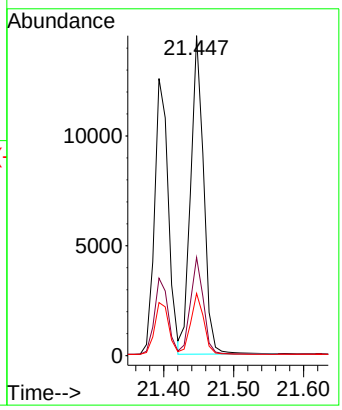


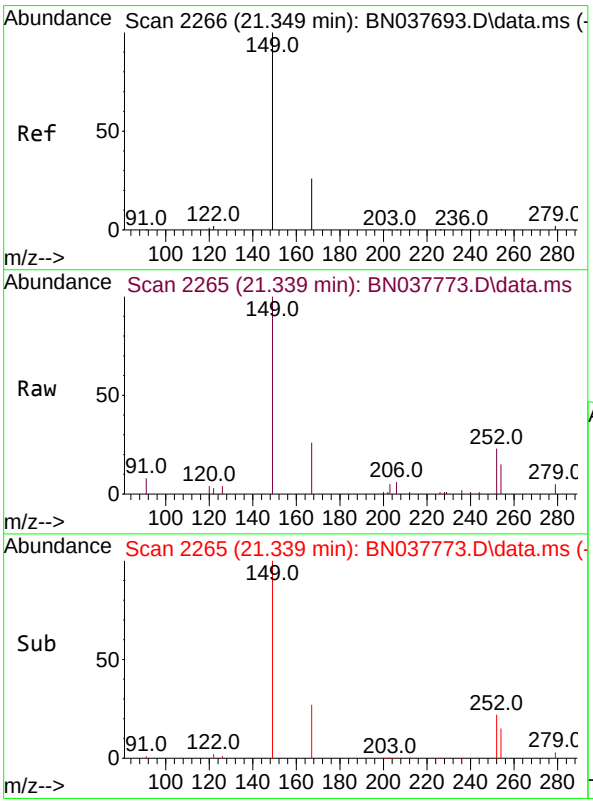

#33
Chrysene
Concen: 0.418 ng
RT: 21.447 min Scan# 2
Delta R.T. -0.009 min
Lab File: BN037773.D
Acq: 18 Sep 2025 12:25

**Instrument :**
BNA_N
**ClientSampleId :**
RE103D2-20250911MSD

Tgt Ion:228 Resp: 18729

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 228 | 100 | | |
| 226 | 30.7 | 23.5 | 35.3 |
| 229 | 19.4 | 15.9 | 23.9 |

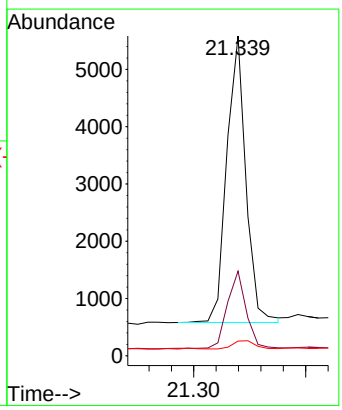


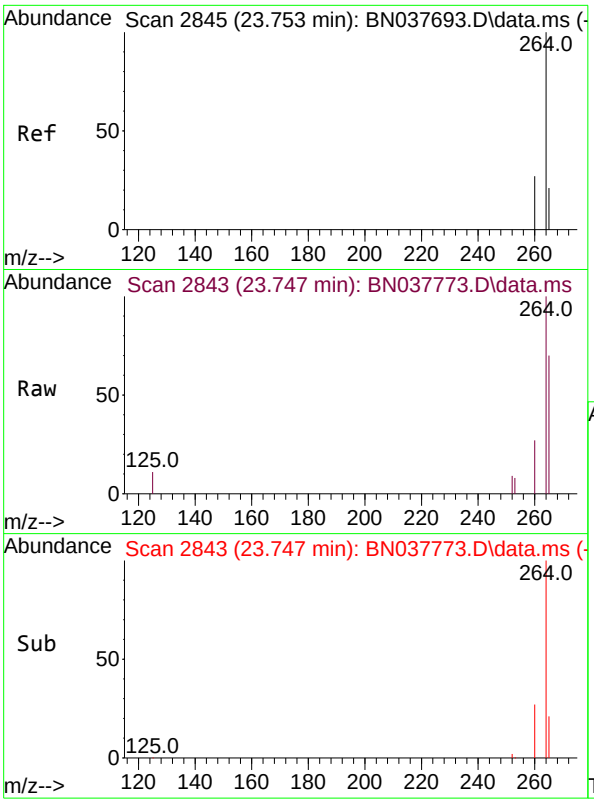




#34
Bis(2-ethylhexyl)phthalate
Concen: 0.477 ng
RT: 21.339 min Scan# 2265
Delta R.T. -0.009 min
Lab File: BN037773.D
Acq: 18 Sep 2025 12:25

Tgt Ion:149 Resp: 5916

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 149 | 100 | | |
| 167 | 26.2 | 20.8 | 31.2 |
| 279 | 3.4 | 3.3 | 4.9 |



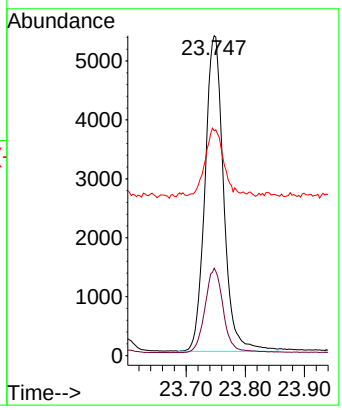


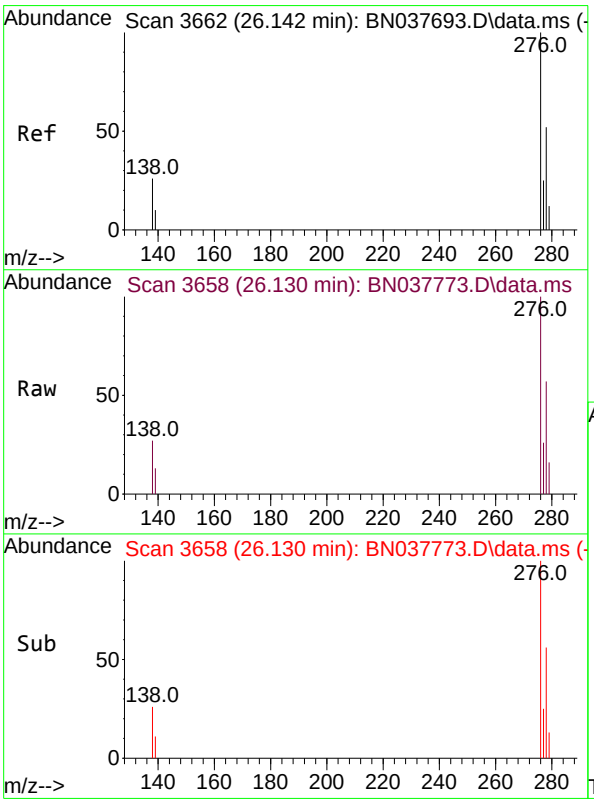

#35
Perylene-d12
Concen: 0.400 ng
RT: 23.747 min Scan# 28
Delta R.T. -0.006 min
Lab File: BN037773.D
Acq: 18 Sep 2025 12:25

**Instrument :**
BNA_N
**ClientSampleId :**
RE103D2-20250911MSD

Tgt Ion:264 Resp: 11726

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 264 | 100 | | |
| 260 | 27.3 | 21.8 | 32.8 |
| 265 | 70.3 | 39.4 | 59.2# |

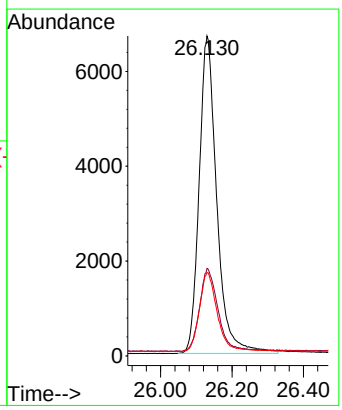


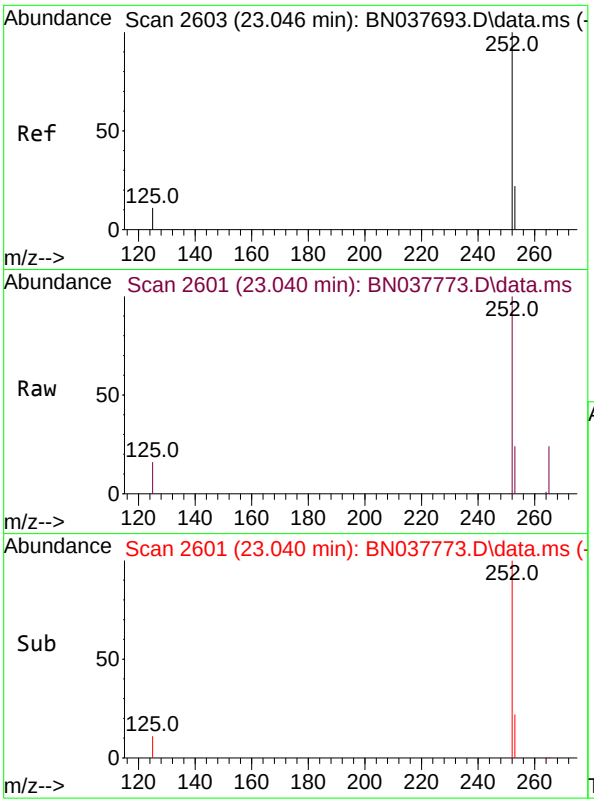




#36
Indeno(1,2,3-cd)pyrene
Concen: 0.465 ng
RT: 26.130 min Scan# 3658
Delta R.T. -0.012 min
Lab File: BN037773.D
Acq: 18 Sep 2025 12:25

Tgt Ion:276 Resp: 22920

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 276 | 100 | | |
| 138 | 26.8 | 21.9 | 32.9 |
| 277 | 25.2 | 20.1 | 30.1 |



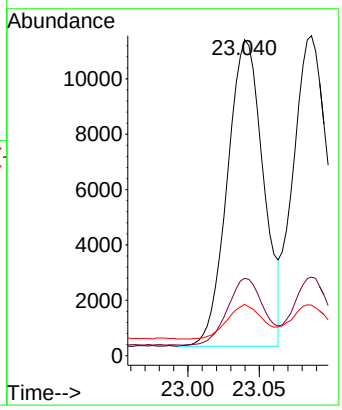


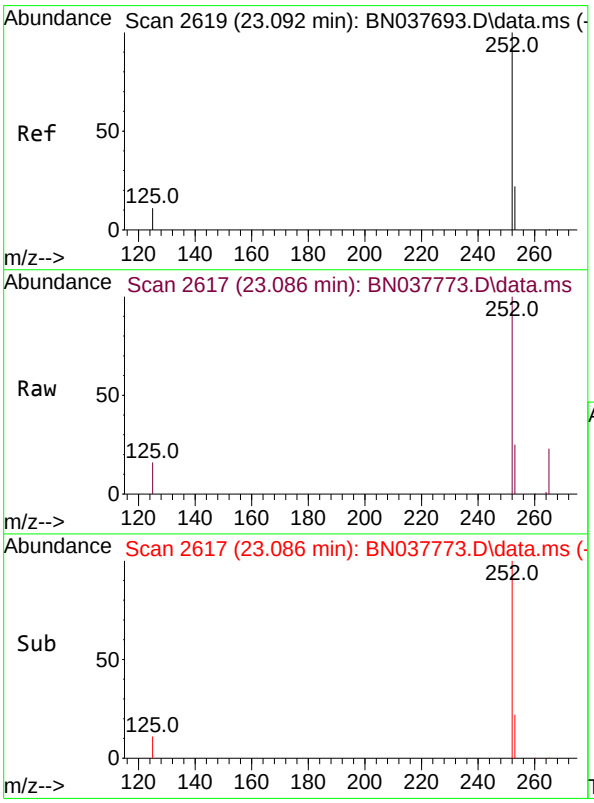

#37
Benzo(b)fluoranthene
Concen: 0.420 ng
RT: 23.040 min Scan# 2
Delta R.T. -0.006 min
Lab File: BN037773.D
Acq: 18 Sep 2025 12:25

**Instrument :**
BNA_N
**ClientSampleId :**
RE103D2-20250911MSD

Tgt Ion:252 Resp: 19407

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 24.4 | 19.4 | 29.2 |
| 125 | 16.2 | 11.2 | 16.8 |

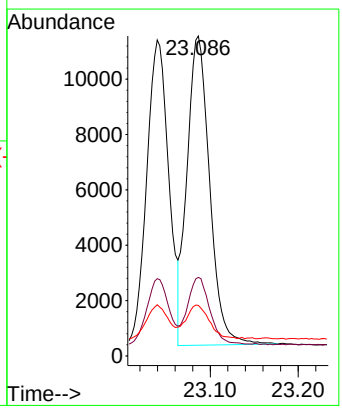


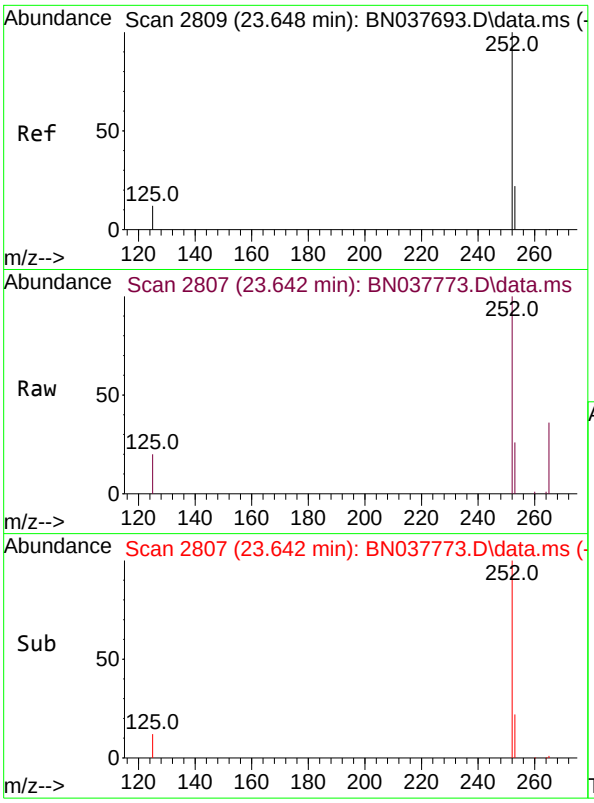




#38
Benzo(k)fluoranthene
Concen: 0.424 ng
RT: 23.086 min Scan# 2617
Delta R.T. -0.006 min
Lab File: BN037773.D
Acq: 18 Sep 2025 12:25

Tgt Ion:252 Resp: 19956

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 24.5 | 19.4 | 29.0 |
| 125 | 15.8 | 11.6 | 17.4 |



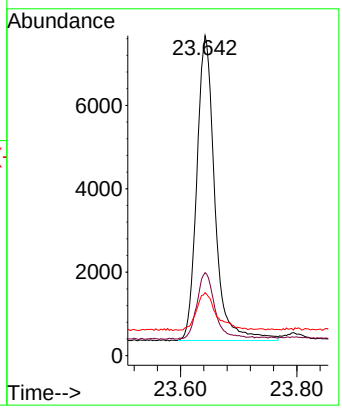


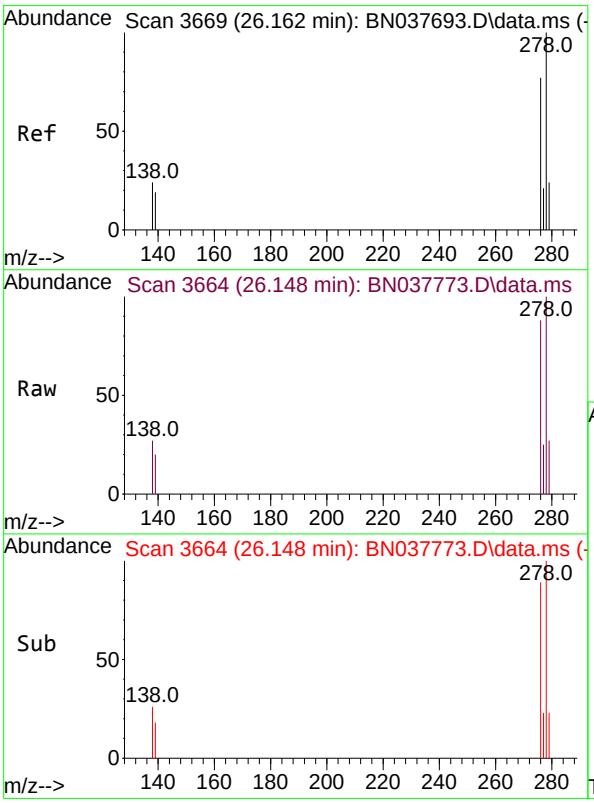

#39
Benzo(a)pyrene
Concen: 0.426 ng
RT: 23.642 min Scan# 28
Delta R.T. -0.006 min
Lab File: BN037773.D
Acq: 18 Sep 2025 12:25

**Instrument :**
BNA_N
**ClientSampleId :**
RE103D2-20250911MSD

Tgt Ion:252 Resp: 15734

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 25.9 | 20.8 | 31.2 |
| 125 | 19.7 | 13.9 | 20.9 |

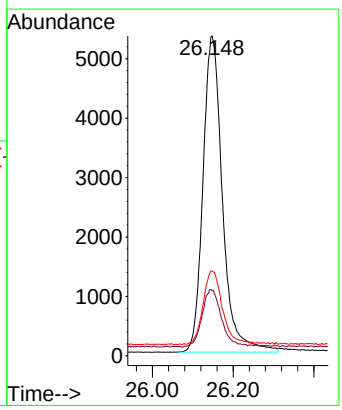


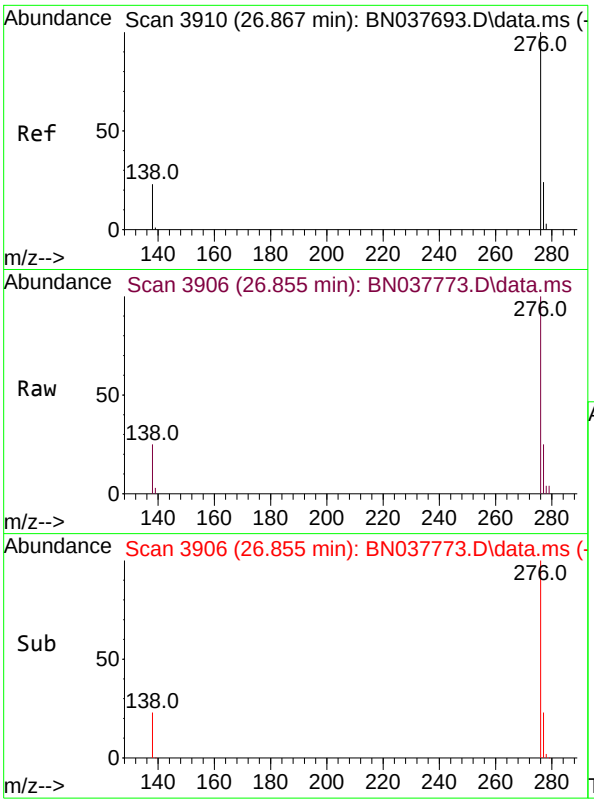




#40
Dibenzo(a,h)anthracene
Concen: 0.455 ng
RT: 26.148 min Scan# 3664
Delta R.T. -0.015 min
Lab File: BN037773.D
Acq: 18 Sep 2025 12:25

Tgt Ion:278 Resp: 17896

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 278 | 100 | | |
| 139 | 20.5 | 17.8 | 26.6 |
| 279 | 26.5 | 22.0 | 33.0 |



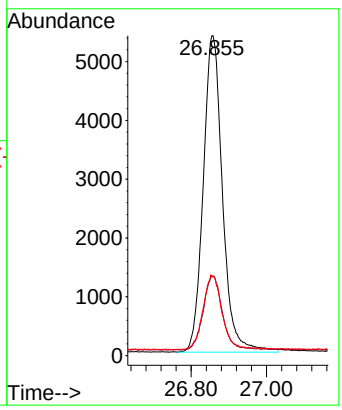



#41
Benzo(g,h,i)perylene
Concen: 0.433 ng
RT: 26.855 min Scan# 3
Delta R.T. -0.012 min
Lab File: BN037773.D
Acq: 18 Sep 2025 12:25

**Instrument :**
BNA_N
**ClientSampleId :**
RE103D2-20250911MSD

Tgt Ion:276 Resp: 19134

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 276 | 100 | | |
| 277 | 24.9 | 20.6 | 31.0 |
| 138 | 24.5 | 20.2 | 30.2 |



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# Manual Integration Report

| Sequence: | BN091125 | Instrument | BNA_n |
|---|---|---|---|

| Sample ID | File ID | Parameter | Review By | Review On | Supervised By | Supervised On | Reason |
|---|---|---|---|---|---|---|---|
| SSTDICC0.2 | BN037692.D | Benzo(k)fluoranthene | Rahul | 9/12/2025 8:44:30 AM | Jagrut | 9/12/2025 11:51:26 AM | Peak Integrated by Software |

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# Manual Integration Report

| Sequence: | BN091725 | Instrument | BNA_n |
|---|---|---|---|

| Sample ID | File ID | Parameter | Review By | Review On | Supervised By | Supervised On | Reason |
|---|---|---|---|---|---|---|---|

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# Manual Integration Report

| Sequence: | BN091825 | Instrument | BNA_n |
|---|---|---|---|

| Sample ID | File ID | Parameter | Review By | Review On | Supervised By | Supervised On | Reason |
|---|---|---|---|---|---|---|---|
| PB169693BS | BN037792.D | Benzo(k)fluoranthene | Rahul | 9/19/2025 8:46:42 AM | mohammad | 9/23/2025 2:07:38 AM | Peak Integrated by Software |

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# Manual Integration Report

| Sequence: | BN091925 | Instrument | BNA_n |
|---|---|---|---|

| Sample ID | File ID | Parameter | Review By | Review On | Supervised By | Supervised On | Reason |
|---|---|---|---|---|---|---|---|

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**Instrument ID: BNA_N**

## Daily Analysis Runlog For Sequence/QCBatch ID # BN091125

| | | | | | |
|---|---|---|---|---|---|
| Review By | Rahul | Review On | 9/12/2025 10:21:18 AM | | |
| Supervise By | Jagrut | Supervise On | 9/12/2025 11:52:20 AM | | |
| SubDirectory | BN091125 | HP Acquire Method | BNA_N, 8270_SIM | HP Processing Method | bn091125 |

| STD. NAME | STD REF.# |
|---|---|
| Tune/Reschk | SP6757 |
| Initial Calibration Stds | SP6842,SP6843,SP6844,SP6845,SP6846,SP6847,SP6848 |
| CCC | SP6846 |
| Internal Standard/PEM | SP6830,1ul/100ul sample |
| ICV/I.BLK | SP6854 |
| Surrogate Standard | |
| MS/MSD Standard | |
| LCS Standard | |

| Sr# | SampleId | Data File Name | Date-Time | Operator | Status |
|---|---|---|---|---|---|
| 1 | DFTPP | BN037689.D | 11 Sep 2025 07:54 | RC/JU | Ok |
| 2 | SSTDCCC0.4 | BN037690.D | 11 Sep 2025 09:20 | RC/JU | Ok |
| 3 | SSTDICC0.1 | BN037691.D | 11 Sep 2025 09:56 | RC/JU | Ok |
| 4 | SSTDICC0.2 | BN037692.D | 11 Sep 2025 10:32 | RC/JU | Ok,M |
| 5 | SSTDICCC0.4 | BN037693.D | 11 Sep 2025 11:08 | RC/JU | Ok |
| 6 | SSTDICC0.8 | BN037694.D | 11 Sep 2025 11:44 | RC/JU | Ok |
| 7 | SSTDICC1.6 | BN037695.D | 11 Sep 2025 12:20 | RC/JU | Ok |
| 8 | SSTDICC3.2 | BN037696.D | 11 Sep 2025 12:56 | RC/JU | Ok |
| 9 | SSTDICC5.0 | BN037697.D | 11 Sep 2025 13:33 | RC/JU | Ok |
| 10 | SSTDICV0.4 | BN037698.D | 11 Sep 2025 14:09 | RC/JU | Ok |
| 11 | PB169529BL | BN037699.D | 11 Sep 2025 14:45 | RC/JU | Ok |
| 12 | Q2893-03 | BN037700.D | 11 Sep 2025 15:21 | RC/JU | Ok |
| 13 | Q2893-03 | BN037701.D | 11 Sep 2025 15:58 | RC/JU | Ok |
| 14 | Q2893-09 | BN037702.D | 11 Sep 2025 16:34 | RC/JU | Ok |
| 15 | Q2893-09 | BN037703.D | 11 Sep 2025 17:10 | RC/JU | Ok |
| 16 | PB169527BL | BN037704.D | 11 Sep 2025 17:47 | RC/JU | Ok |
| 17 | SSTDCCC0.4 | BN037705.D | 11 Sep 2025 18:23 | RC/JU | Ok |

M : Manual Integration

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Fax : 908 789 8922

**Instrument ID: BNA_N**

## Daily Analysis Runlog For Sequence/QCBatch ID # BN091725

| | | | | | |
|---|---|---|---|---|---|
| Review By | Rahul | Review On | 9/18/2025 2:11:37 PM | | |
| Supervise By | Jagrut | Supervise On | 9/18/2025 5:21:45 PM | | |
| SubDirectory | BN091725 | HP Acquire Method | BNA_N, 8270_SIM | HP Processing Method | bn091125 |

| STD. NAME | STD REF.# |
|---|---|
| Tune/Reschk | SP6757 |
| Initial Calibration Stds | SP6842,SP6843,SP6844,SP6845,SP6846,SP6847,SP6848 |
| CCC | SP6846 |
| Internal Standard/PEM | SP6830,1ul/100ul sample |
| ICV/I.BLK | SP6854 |
| Surrogate Standard | |
| MS/MSD Standard | |
| LCS Standard | |

| Sr# | SampleId | Data File Name | Date-Time | Operator | Status |
|---|---|---|---|---|---|
| 1 | DFTPP | BN037739.D | 17 Sep 2025 10:46 | RC/JU | Ok |
| 2 | SSTDCCC0.4 | BN037740.D | 17 Sep 2025 11:25 | RC/JU | Ok |
| 3 | PB169692BL | BN037741.D | 17 Sep 2025 12:02 | RC/JU | Ok |
| 4 | Q3095-05 | BN037742.D | 17 Sep 2025 12:38 | RC/JU | Ok |
| 5 | Q3095-06MS | BN037743.D | 17 Sep 2025 13:14 | RC/JU | Ok |
| 6 | Q3095-07MSD | BN037744.D | 17 Sep 2025 13:59 | RC/JU | Ok |
| 7 | Q3086-01 | BN037745.D | 17 Sep 2025 14:35 | RC/JU | Ok |
| 8 | Q3086-02 | BN037746.D | 17 Sep 2025 15:11 | RC/JU | Ok |
| 9 | Q3095-01 | BN037747.D | 17 Sep 2025 15:47 | RC/JU | Ok |
| 10 | Q3095-02 | BN037748.D | 17 Sep 2025 16:24 | RC/JU | Ok |
| 11 | Q3095-03 | BN037749.D | 17 Sep 2025 17:00 | RC/JU | Dilution |
| 12 | Q3095-04 | BN037750.D | 17 Sep 2025 17:36 | RC/JU | Ok |
| 13 | Q3095-08 | BN037751.D | 17 Sep 2025 18:13 | RC/JU | Ok |
| 14 | Q3095-09 | BN037752.D | 17 Sep 2025 18:49 | RC/JU | Ok |
| 15 | Q3095-10 | BN037753.D | 17 Sep 2025 19:25 | RC/JU | Ok |
| 16 | Q3095-11 | BN037754.D | 17 Sep 2025 20:01 | RC/JU | Ok |
| 17 | Q3095-13 | BN037755.D | 17 Sep 2025 20:37 | RC/JU | Ok |
| 18 | SP6870 | BN037756.D | 17 Sep 2025 21:13 | RC/JU | Ok |
| 19 | SSTDCCC0.4 | BN037757.D | 17 Sep 2025 21:50 | RC/JU | Ok |
| 20 | DFTPP | BN037758.D | 18 Sep 2025 02:06 | RC/JU | Ok |
| 21 | SSTDCCC0.4 | BN037759.D | 18 Sep 2025 02:46 | RC/JU | Ok |

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**Instrument ID: BNA_N**

## Daily Analysis Runlog For Sequence/QCBatch ID # BN091725

| | | | | | |
|---|---|---|---|---|---|
| Review By | Rahul | Review On | 9/18/2025 2:11:37 PM | | |
| Supervise By | Jagrut | Supervise On | 9/18/2025 5:21:45 PM | | |
| SubDirectory | BN091725 | HP Acquire Method | BNA_N, 8270_SIM | HP Processing Method | bn091125 |

| STD. NAME | STD REF.# |
|---|---|
| Tune/Reschk | SP6757 |
| Initial Calibration Stds | SP6842,SP6843,SP6844,SP6845,SP6846,SP6847,SP6848 |
| CCC | SP6846 |
| Internal Standard/PEM | SP6830,1ul/100ul sample |
| ICV/I.BLK | SP6854 |
| Surrogate Standard | |
| MS/MSD Standard | |
| LCS Standard | |

| | | | | | |
|---|---|---|---|---|---|
| 22 | PB169692BL | BN037760.D | 18 Sep 2025 03:22 | RC/JU | Ok |
| 23 | Q3095-12 | BN037761.D | 18 Sep 2025 03:58 | RC/JU | Ok |
| 24 | Q3095-14 | BN037762.D | 18 Sep 2025 04:34 | RC/JU | Ok |
| 25 | Q3095-15 | BN037763.D | 18 Sep 2025 05:10 | RC/JU | Ok |
| 26 | Q3095-16 | BN037764.D | 18 Sep 2025 05:46 | RC/JU | Ok |
| 27 | Q3095-17 | BN037765.D | 18 Sep 2025 06:23 | RC/JU | Ok |
| 28 | Q3095-18 | BN037766.D | 18 Sep 2025 06:59 | RC/JU | Ok |
| 29 | Q3095-19 | BN037767.D | 18 Sep 2025 07:35 | RC/JU | Ok |
| 30 | Q3095-20 | BN037768.D | 18 Sep 2025 08:11 | RC/JU | Ok |
| 31 | Q3097-07 | BN037769.D | 18 Sep 2025 08:47 | RC/JU | Ok |
| 32 | Q3097-08 | BN037770.D | 18 Sep 2025 09:23 | RC/JU | Dilution |
| 33 | Q3097-01 | BN037771.D | 18 Sep 2025 10:00 | RC/JU | Ok |
| 34 | Q3097-02MS | BN037772.D | 18 Sep 2025 11:48 | RC/JU | Ok |
| 35 | Q3097-03MSD | BN037773.D | 18 Sep 2025 12:25 | RC/JU | Ok |
| 36 | SSTDCCC0.4 | BN037774.D | 18 Sep 2025 13:16 | RC/JU | Ok |

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**Instrument ID: BNA_N**

## Daily Analysis Runlog For Sequence/QCBatch ID # BN091825

| | | | | | |
|---|---|---|---|---|---|
| Review By | Rahul | Review On | 9/19/2025 8:50:16 AM | | |
| Supervise By | mohammad | Supervise On | 9/23/2025 2:07:38 AM | | |
| SubDirectory | BN091825 | HP Acquire Method | BNA_N, 8270_SIM | HP Processing Method | bn091125 |

| STD. NAME | STD REF.# |
|---|---|
| Tune/Reschk | SP6757 |
| Initial Calibration Stds | SP6842,SP6843,SP6844,SP6845,SP6846,SP6847,SP6848 |
| CCC | SP6846 |
| Internal Standard/PEM | SP6830,1ul/100ul sample |
| ICV/I.BLK | SP6854 |
| Surrogate Standard | |
| MS/MSD Standard | |
| LCS Standard | |

| Sr# | SampleId | Data File Name | Date-Time | Operator | Status |
|---|---|---|---|---|---|
| 1 | DFTPP | BN037775.D | 18 Sep 2025 13:53 | RC/JU | Ok |
| 2 | SSTDCCC0.4 | BN037776.D | 18 Sep 2025 14:32 | RC/JU | Ok |
| 3 | PB169693BL | BN037777.D | 18 Sep 2025 15:10 | RC/JU | Ok |
| 4 | Q3097-09 | BN037778.D | 18 Sep 2025 15:47 | RC/JU | Ok |
| 5 | Q3097-04 | BN037779.D | 18 Sep 2025 16:23 | RC/JU | Ok |
| 6 | Q3097-05 | BN037780.D | 18 Sep 2025 17:00 | RC/JU | Ok |
| 7 | Q3097-06 | BN037781.D | 18 Sep 2025 17:36 | RC/JU | Ok |
| 8 | Q3083-03 | BN037782.D | 18 Sep 2025 18:12 | RC/JU | Dilution |
| 9 | Q3095-21 | BN037783.D | 18 Sep 2025 18:49 | RC/JU | Ok |
| 10 | Q3095-22 | BN037784.D | 18 Sep 2025 19:25 | RC/JU | Ok |
| 11 | Q3095-23 | BN037785.D | 18 Sep 2025 20:02 | RC/JU | Ok |
| 12 | Q3095-24 | BN037786.D | 18 Sep 2025 20:38 | RC/JU | Ok |
| 13 | Q3095-25 | BN037787.D | 18 Sep 2025 21:14 | RC/JU | Ok |
| 14 | Q3095-26 | BN037788.D | 18 Sep 2025 21:51 | RC/JU | Ok |
| 15 | Q3095-03DL | BN037789.D | 18 Sep 2025 22:27 | RC/JU | Ok |
| 16 | Q3097-08DL | BN037790.D | 18 Sep 2025 23:03 | RC/JU | Ok |
| 17 | PB169692BS | BN037791.D | 18 Sep 2025 23:40 | RC/JU | Ok |
| 18 | PB169693BS | BN037792.D | 19 Sep 2025 00:16 | RC/JU | Ok,M |
| 19 | SSTDCCC0.4 | BN037793.D | 19 Sep 2025 00:52 | RC/JU | Ok |
| 20 | DFTPP | BN037794.D | 19 Sep 2025 02:08 | RC/JU | Ok |
| 21 | SSTDCCC0.4 | BN037795.D | 19 Sep 2025 02:47 | RC/JU | Ok |

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**Instrument ID: BNA_N**

## Daily Analysis Runlog For Sequence/QCBatch ID # BN091825

| | | | | | |
|---|---|---|---|---|---|
| Review By | Rahul | Review On | 9/19/2025 8:50:16 AM | | |
| Supervise By | mohammad | Supervise On | 9/23/2025 2:07:38 AM | | |
| SubDirectory | BN091825 | HP Acquire Method | BNA_N, 8270_SIM | HP Processing Method | bn091125 |

| STD. NAME | STD REF.# |
|---|---|
| Tune/Reschk | SP6757 |
| Initial Calibration Stds | SP6842,SP6843,SP6844,SP6845,SP6846,SP6847,SP6848 |
| CCC | SP6846 |
| Internal Standard/PEM | SP6830,1ul/100ul sample |
| ICV/I.BLK | SP6854 |
| Surrogate Standard | |
| MS/MSD Standard | |
| LCS Standard | |

| | | | | | |
|---|---|---|---|---|---|
| 22 | PB169692BL | BN037796.D | 19 Sep 2025 03:24 | RC/JU | Ok |
| 23 | Q3095-29 | BN037797.D | 19 Sep 2025 04:00 | RC/JU | Ok |
| 24 | Q3095-30 | BN037798.D | 19 Sep 2025 04:37 | RC/JU | Ok |
| 25 | Q3095-31 | BN037799.D | 19 Sep 2025 05:13 | RC/JU | Ok |
| 26 | Q3095-32 | BN037800.D | 19 Sep 2025 05:49 | RC/JU | Ok |
| 27 | Q3097-10 | BN037801.D | 19 Sep 2025 06:25 | RC/JU | Ok |
| 28 | Q3097-11 | BN037802.D | 19 Sep 2025 07:01 | RC/JU | Ok |
| 29 | Q3097-12 | BN037803.D | 19 Sep 2025 07:37 | RC/JU | Ok |
| 30 | Q3097-13 | BN037804.D | 19 Sep 2025 08:13 | RC/JU | Dilution |
| 31 | Q3097-14 | BN037805.D | 19 Sep 2025 08:49 | RC/JU | Ok |
| 32 | Q3097-15 | BN037806.D | 19 Sep 2025 09:25 | RC/JU | Ok |
| 33 | Q3097-19 | BN037807.D | 19 Sep 2025 10:02 | RC/JU | Dilution |
| 34 | Q3127-13 | BN037808.D | 19 Sep 2025 10:38 | RC/JU | Ok |
| 35 | Q3127-14MS | BN037809.D | 19 Sep 2025 11:50 | RC/JU | Ok,M |
| 36 | Q3127-15MSD | BN037810.D | 19 Sep 2025 12:27 | RC/JU | Ok,M |
| 37 | SSTDCCC0.4 | BN037811.D | 19 Sep 2025 13:03 | RC/JU | Ok |

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**Instrument ID: BNA_N**

## Daily Analysis Runlog For Sequence/QCBatch ID # BN091925

| | | | | | |
|---|---|---|---|---|---|
| Review By | Rahul | Review On | 9/22/2025 8:49:07 AM | | |
| Supervise By | mohammad | Supervise On | 9/23/2025 2:08:18 AM | | |
| SubDirectory | BN091925 | HP Acquire Method | BNA_N, 8270_SIM | HP Processing Method | bn091125 |

| STD. NAME | STD REF.# |
|---|---|
| Tune/Reschk | SP6757 |
| Initial Calibration Stds | SP6842,SP6843,SP6844,SP6845,SP6846,SP6847,SP6848 |
| CCC | SP6846 |
| Internal Standard/PEM | SP6830,1ul/100ul sample |
| ICV/I.BLK | SP6854 |
| Surrogate Standard | |
| MS/MSD Standard | |
| LCS Standard | |

| Sr# | SampleId | Data File Name | Date-Time | Operator | Status |
|---|---|---|---|---|---|
| 1 | DFTPP | BN037812.D | 19 Sep 2025 13:39 | RC/JU | Ok |
| 2 | SSTDCCC0.4 | BN037813.D | 19 Sep 2025 14:19 | RC/JU | Ok |
| 3 | PB169743BL | BN037814.D | 19 Sep 2025 14:55 | RC/JU | Ok |
| 4 | Q3095-27 | BN037815.D | 19 Sep 2025 15:32 | RC/JU | Ok |
| 5 | Q3083-03DL | BN037816.D | 19 Sep 2025 16:08 | RC/JU | Ok |
| 6 | Q3097-13DL | BN037817.D | 19 Sep 2025 16:45 | RC/JU | Ok |
| 7 | Q3097-19DL | BN037818.D | 19 Sep 2025 17:21 | RC/JU | Ok |
| 8 | Q3097-21 | BN037819.D | 19 Sep 2025 17:58 | RC/JU | Ok |
| 9 | Q3097-22 | BN037820.D | 19 Sep 2025 18:34 | RC/JU | Ok |
| 10 | Q3097-23 | BN037821.D | 19 Sep 2025 19:11 | RC/JU | Ok |
| 11 | Q3097-24 | BN037822.D | 19 Sep 2025 19:47 | RC/JU | Dilution |
| 12 | Q3097-25 | BN037823.D | 19 Sep 2025 20:24 | RC/JU | Dilution |
| 13 | Q3097-26 | BN037824.D | 19 Sep 2025 21:00 | RC/JU | Ok |
| 14 | Q3127-01 | BN037825.D | 19 Sep 2025 21:37 | RC/JU | Ok |
| 15 | Q3127-02 | BN037826.D | 19 Sep 2025 22:13 | RC/JU | Dilution |
| 16 | Q3127-03 | BN037827.D | 19 Sep 2025 22:50 | RC/JU | Dilution |
| 17 | Q3127-04 | BN037828.D | 19 Sep 2025 23:26 | RC/JU | Dilution |
| 18 | PB169743BS | BN037829.D | 20 Sep 2025 00:03 | RC/JU | Ok |
| 19 | SSTDCCC0.4 | BN037830.D | 20 Sep 2025 00:39 | RC/JU | Ok |
| 20 | DFTPP | BN037831.D | 20 Sep 2025 01:16 | RC/JU | Ok |
| 21 | SSTDCCC0.4 | BN037832.D | 20 Sep 2025 02:35 | RC/JU | Ok |

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**Instrument ID: BNA_N**

## Daily Analysis Runlog For Sequence/QCBatch ID # BN091925

| | | | | | |
|---|---|---|---|---|---|
| Review By | Rahul | Review On | 9/22/2025 8:49:07 AM | | |
| Supervise By | mohammad | Supervise On | 9/23/2025 2:08:18 AM | | |
| SubDirectory | BN091925 | HP Acquire Method | BNA_N, 8270_SIM | HP Processing Method | bn091125 |

| STD. NAME | STD REF.# |
|---|---|
| Tune/Reschk | SP6757 |
| Initial Calibration Stds | SP6842,SP6843,SP6844,SP6845,SP6846,SP6847,SP6848 |
| CCC | SP6846 |
| Internal Standard/PEM | SP6830,1ul/100ul sample |
| ICV/I.BLK | SP6854 |
| Surrogate Standard | |
| MS/MSD Standard | |
| LCS Standard | |

| | | | | | |
|---|---|---|---|---|---|
| 22 | PB169743BL | BN037833.D | 20 Sep 2025 03:12 | RC/JU | Ok |
| 23 | Q3127-05 | BN037834.D | 20 Sep 2025 03:48 | RC/JU | Ok |
| 24 | Q3127-06 | BN037835.D | 20 Sep 2025 04:25 | RC/JU | Ok |
| 25 | Q3127-07 | BN037836.D | 20 Sep 2025 05:01 | RC/JU | Ok |
| 26 | Q3127-08 | BN037837.D | 20 Sep 2025 05:37 | RC/JU | Dilution |
| 27 | Q3127-09 | BN037838.D | 20 Sep 2025 06:13 | RC/JU | Ok |
| 28 | Q3127-10 | BN037839.D | 20 Sep 2025 06:50 | RC/JU | Ok |
| 29 | Q3127-11 | BN037840.D | 20 Sep 2025 07:26 | RC/JU | Ok |
| 30 | Q3127-12 | BN037841.D | 20 Sep 2025 08:02 | RC/JU | Ok |
| 31 | Q3127-16 | BN037842.D | 20 Sep 2025 08:38 | RC/JU | Dilution |
| 32 | Q3095-28 | BN037843.D | 20 Sep 2025 09:14 | RC/JU | Ok |
| 33 | Q3097-20 | BN037844.D | 20 Sep 2025 09:51 | RC/JU | Dilution |
| 34 | Q3127-18 | BN037845.D | 20 Sep 2025 10:27 | RC/JU | Ok |
| 35 | Q3127-19 | BN037846.D | 20 Sep 2025 11:03 | RC/JU | Ok |
| 36 | SSTDCCC0.4 | BN037847.D | 20 Sep 2025 11:39 | RC/JU | Ok |

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**Instrument ID:** BNA_N

## Daily Analysis Runlog For Sequence/QCBatch ID # BN091125

| | | | | |
|---|---|---|---|---|
| Review By | Rahul | Review On | 9/12/2025 10:21:18 AM | |
| Supervise By | Jagrut | Supervise On | 9/12/2025 11:52:20 AM | |
| SubDirectory | BN091125 | HP Acquire Method | BNA_N, 8270_HP Processing Method | bn091125 |

| STD. NAME | STD REF.# |
|---|---|
| Tune/Reschk | SP6757 |
| Initial Calibration Stds | SP6842,SP6843,SP6844,SP6845,SP6846,SP6847,SP6848 |
| CCC | SP6846 |
| Internal Standard/PEM | SP6830,1ul/100ul sample |
| ICV/I.BLK | SP6854 |
| Surrogate Standard | |
| MS/MSD Standard | |
| LCS Standard | |

| Sr# | SampleId | ClientID | Data File Name | Date-Time | Comment | Operator | Status |
|---|---|---|---|---|---|---|---|
| 1 | DFTPP | DFTPP | BN037689.D | 11 Sep 2025 07:54 | | RC/JU | Ok |
| 2 | SSTDCCC0.4 | SSTDCCC0.4 | BN037690.D | 11 Sep 2025 09:20 | A Fresh Calibration is required. | RC/JU | Ok |
| 3 | SSTDICC0.1 | SSTDICC0.1 | BN037691.D | 11 Sep 2025 09:56 | | RC/JU | Ok |
| 4 | SSTDICC0.2 | SSTDICC0.2 | BN037692.D | 11 Sep 2025 10:32 | | RC/JU | Ok,M |
| 5 | SSTDICCC0.4 | SSTDICCC0.4 | BN037693.D | 11 Sep 2025 11:08 | | RC/JU | Ok |
| 6 | SSTDICC0.8 | SSTDICC0.8 | BN037694.D | 11 Sep 2025 11:44 | | RC/JU | Ok |
| 7 | SSTDICC1.6 | SSTDICC1.6 | BN037695.D | 11 Sep 2025 12:20 | | RC/JU | Ok |
| 8 | SSTDICC3.2 | SSTDICC3.2 | BN037696.D | 11 Sep 2025 12:56 | | RC/JU | Ok |
| 9 | SSTDICC5.0 | SSTDICC5.0 | BN037697.D | 11 Sep 2025 13:33 | Compound#14,20 removed from 5 ppm | RC/JU | Ok |
| 10 | SSTDICV0.4 | ICVBN091125 | BN037698.D | 11 Sep 2025 14:09 | | RC/JU | Ok |
| 11 | PB169529BL | PB169529BL | BN037699.D | 11 Sep 2025 14:45 | | RC/JU | Ok |
| 12 | Q2893-03 | MDL-SOIL-03-QT3-202 | BN037700.D | 11 Sep 2025 15:21 | MDL-SOIL -0.1 ppm | RC/JU | Ok |
| 13 | Q2893-03 | MDL-SOIL-03-QT3-202 | BN037701.D | 11 Sep 2025 15:58 | MDL-SOIL -0.2 ppm | RC/JU | Ok |
| 14 | Q2893-09 | MDL-WATER-03-QT3-2 | BN037702.D | 11 Sep 2025 16:34 | MDL-WATER -0.1 ppm | RC/JU | Ok |
| 15 | Q2893-09 | MDL-WATER-03-QT3-2 | BN037703.D | 11 Sep 2025 17:10 | MDL-WATER -0.2 ppm | RC/JU | Ok |
| 16 | PB169527BL | PB169527BL | BN037704.D | 11 Sep 2025 17:47 | | RC/JU | Ok |
| 17 | SSTDCCC0.4 | SSTDCCC0.4EC | BN037705.D | 11 Sep 2025 18:23 | | RC/JU | Ok |

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**Instrument ID:** BNA_N

## Daily Analysis Runlog For Sequence/QCBatch ID # BN091725

| | | | | |
|---|---|---|---|---|
| Review By | Rahul | Review On | 9/18/2025 2:11:37 PM | |
| Supervise By | Jagrut | Supervise On | 9/18/2025 5:21:45 PM | |
| SubDirectory | BN091725 | HP Acquire Method | BNA_N, 8270_HP Processing Method | bn091125 |

| STD. NAME | STD REF.# |
|---|---|
| Tune/Reschk | SP6757 |
| Initial Calibration Stds | SP6842,SP6843,SP6844,SP6845,SP6846,SP6847,SP6848 |
| CCC | SP6846 |
| Internal Standard/PEM | SP6830,1ul/100ul sample |
| ICV/I.BLK | SP6854 |
| Surrogate Standard | |
| MS/MSD Standard | |
| LCS Standard | |

| Sr# | SampleId | ClientID | Data File Name | Date-Time | Comment | Operator | Status |
|---|---|---|---|---|---|---|---|
| 1 | DFTPP | DFTPP | BN037739.D | 17 Sep 2025 10:46 | | RC/JU | Ok |
| 2 | SSTDCCC0.4 | SSTDCCC0.4 | BN037740.D | 17 Sep 2025 11:25 | | RC/JU | Ok |
| 3 | PB169692BL | PB169692BL | BN037741.D | 17 Sep 2025 12:02 | | RC/JU | Ok |
| 4 | Q3095-05 | MW203D2-20250909 | BN037742.D | 17 Sep 2025 12:38 | | RC/JU | Ok |
| 5 | Q3095-06MS | MW203D2-20250909M | BN037743.D | 17 Sep 2025 13:14 | | RC/JU | Ok |
| 6 | Q3095-07MSD | MW203D2-20250909M | BN037744.D | 17 Sep 2025 13:59 | | RC/JU | Ok |
| 7 | Q3086-01 | RW8-SP100-20250911 | BN037745.D | 17 Sep 2025 14:35 | | RC/JU | Ok |
| 8 | Q3086-02 | RW8-SP303-20250911 | BN037746.D | 17 Sep 2025 15:11 | | RC/JU | Ok |
| 9 | Q3095-01 | MW305I-20250908 | BN037747.D | 17 Sep 2025 15:47 | | RC/JU | Ok |
| 10 | Q3095-02 | MW179D-20250908 | BN037748.D | 17 Sep 2025 16:24 | | RC/JU | Ok |
| 11 | Q3095-03 | MW201D-20250908 | BN037749.D | 17 Sep 2025 17:00 | Need 2X Dilution | RC/JU | Dilution |
| 12 | Q3095-04 | MW179D1-20250908 | BN037750.D | 17 Sep 2025 17:36 | | RC/JU | Ok |
| 13 | Q3095-08 | MW203D1-20250909 | BN037751.D | 17 Sep 2025 18:13 | | RC/JU | Ok |
| 14 | Q3095-09 | MW179D2-20250909 | BN037752.D | 17 Sep 2025 18:49 | | RC/JU | Ok |
| 15 | Q3095-10 | MW201D1-20250909 | BN037753.D | 17 Sep 2025 19:25 | | RC/JU | Ok |
| 16 | Q3095-11 | RE122D1-20250909 | BN037754.D | 17 Sep 2025 20:01 | | RC/JU | Ok |
| 17 | Q3095-13 | MW178I1-20250909 | BN037755.D | 17 Sep 2025 20:37 | | RC/JU | Ok |
| 18 | SP6870 | SP6870 | BN037756.D | 17 Sep 2025 21:13 | | RC/JU | Ok |

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**Instrument ID:** BNA_N

## Daily Analysis Runlog For Sequence/QCBatch ID # BN091725

| | | | | |
|---|---|---|---|---|
| Review By | Rahul | Review On | 9/18/2025 2:11:37 PM | |
| Supervise By | Jagrut | Supervise On | 9/18/2025 5:21:45 PM | |
| SubDirectory | BN091725 | HP Acquire Method | BNA_N, 8270_HP Processing Method | bn091125 |

| STD. NAME | STD REF.# |
|---|---|
| Tune/Reschk | SP6757 |
| Initial Calibration Stds | SP6842,SP6843,SP6844,SP6845,SP6846,SP6847,SP6848 |
| CCC | SP6846 |
| Internal Standard/PEM | SP6830,1ul/100ul sample |
| ICV/I.BLK | SP6854 |
| Surrogate Standard | |
| MS/MSD Standard | |
| LCS Standard | |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 19 | SSTDCCC0.4 | SSTDCCC0.4EC | BN037757.D | 17 Sep 2025 21:50 | | RC/JU | Ok |
| 20 | DFTPP | DFTPP | BN037758.D | 18 Sep 2025 02:06 | | RC/JU | Ok |
| 21 | SSTDCCC0.4 | SSTDCCC0.4 | BN037759.D | 18 Sep 2025 02:46 | | RC/JU | Ok |
| 22 | PB169692BL | PB169692BL | BN037760.D | 18 Sep 2025 03:22 | | RC/JU | Ok |
| 23 | Q3095-12 | MW202D-20250909 | BN037761.D | 18 Sep 2025 03:58 | | RC/JU | Ok |
| 24 | Q3095-14 | RE123D1-20250909 | BN037762.D | 18 Sep 2025 04:34 | | RC/JU | Ok |
| 25 | Q3095-15 | RE123D3-20250909 | BN037763.D | 18 Sep 2025 05:10 | | RC/JU | Ok |
| 26 | Q3095-16 | MW305D-20250909 | BN037764.D | 18 Sep 2025 05:46 | | RC/JU | Ok |
| 27 | Q3095-17 | DUP01-20250909 | BN037765.D | 18 Sep 2025 06:23 | | RC/JU | Ok |
| 28 | Q3095-18 | RE126D2-20250909 | BN037766.D | 18 Sep 2025 06:59 | | RC/JU | Ok |
| 29 | Q3095-19 | RE126D3-20250909 | BN037767.D | 18 Sep 2025 07:35 | | RC/JU | Ok |
| 30 | Q3095-20 | MW178S-20250910 | BN037768.D | 18 Sep 2025 08:11 | | RC/JU | Ok |
| 31 | Q3097-07 | RE108D2-20250911 | BN037769.D | 18 Sep 2025 08:47 | | RC/JU | Ok |
| 32 | Q3097-08 | RE125D2-20250911 | BN037770.D | 18 Sep 2025 09:23 | Need 5X Dilution | RC/JU | Dilution |
| 33 | Q3097-01 | RE103D2-20250911 | BN037771.D | 18 Sep 2025 10:00 | | RC/JU | Ok |
| 34 | Q3097-02MS | RE103D2-20250911MS | BN037772.D | 18 Sep 2025 11:48 | | RC/JU | Ok |
| 35 | Q3097-03MSD | RE103D2-20250911MS | BN037773.D | 18 Sep 2025 12:25 | | RC/JU | Ok |
| 36 | SSTDCCC0.4 | SSTDCCC0.4EC | BN037774.D | 18 Sep 2025 13:16 | | RC/JU | Ok |

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Fax : 908 789 8922

**Instrument ID:** BNA_N

## Daily Analysis Runlog For Sequence/QCBatch ID # BN091825

| | | | | |
|---|---|---|---|---|
| Review By | Rahul | Review On | 9/19/2025 8:50:16 AM | |
| Supervise By | mohammad | Supervise On | 9/23/2025 2:07:38 AM | |
| SubDirectory | BN091825 | HP Acquire Method | BNA_N, 8270_HP Processing Method | bn091125 |

| STD. NAME | STD REF.# |
|---|---|
| Tune/Reschk | SP6757 |
| Initial Calibration Stds | SP6842,SP6843,SP6844,SP6845,SP6846,SP6847,SP6848 |
| CCC | SP6846 |
| Internal Standard/PEM | SP6830,1ul/100ul sample |
| ICV/I.BLK | SP6854 |
| Surrogate Standard | |
| MS/MSD Standard | |
| LCS Standard | |

| Sr# | SampleId | ClientID | Data File Name | Date-Time | Comment | Operator | Status |
|---|---|---|---|---|---|---|---|
| 1 | DFTPP | DFTPP | BN037775.D | 18 Sep 2025 13:53 | | RC/JU | Ok |
| 2 | SSTDCCC0.4 | SSTDCCC0.4 | BN037776.D | 18 Sep 2025 14:32 | | RC/JU | Ok |
| 3 | PB169693BL | PB169693BL | BN037777.D | 18 Sep 2025 15:10 | | RC/JU | Ok |
| 4 | Q3097-09 | RE108D1-20250911 | BN037778.D | 18 Sep 2025 15:47 | | RC/JU | Ok |
| 5 | Q3097-04 | RE125D1-20250911 | BN037779.D | 18 Sep 2025 16:23 | | RC/JU | Ok |
| 6 | Q3097-05 | RE125D3-20250911 | BN037780.D | 18 Sep 2025 17:00 | | RC/JU | Ok |
| 7 | Q3097-06 | RE103D3-20250911 | BN037781.D | 18 Sep 2025 17:36 | | RC/JU | Ok |
| 8 | Q3083-03 | MW3S | BN037782.D | 18 Sep 2025 18:12 | Need 2x Dilution | RC/JU | Dilution |
| 9 | Q3095-21 | RE126D1-20250910 | BN037783.D | 18 Sep 2025 18:49 | | RC/JU | Ok |
| 10 | Q3095-22 | MW202D1-20250910 | BN037784.D | 18 Sep 2025 19:25 | | RC/JU | Ok |
| 11 | Q3095-23 | RE104D2-20250910 | BN037785.D | 18 Sep 2025 20:02 | | RC/JU | Ok |
| 12 | Q3095-24 | MW178I-20250910 | BN037786.D | 18 Sep 2025 20:38 | | RC/JU | Ok |
| 13 | Q3095-25 | DUP02-20250910 | BN037787.D | 18 Sep 2025 21:14 | | RC/JU | Ok |
| 14 | Q3095-26 | DUP03-20250910 | BN037788.D | 18 Sep 2025 21:51 | | RC/JU | Ok |
| 15 | Q3095-03DL | MW201D-20250908DL | BN037789.D | 18 Sep 2025 22:27 | | RC/JU | Ok |
| 16 | Q3097-08DL | RE125D2-20250911DL | BN037790.D | 18 Sep 2025 23:03 | | RC/JU | Ok |
| 17 | PB169692BS | PB169692BS | BN037791.D | 18 Sep 2025 23:40 | | RC/JU | Ok |
| 18 | PB169693BS | PB169693BS | BN037792.D | 19 Sep 2025 00:16 | | RC/JU | Ok,M |

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**Instrument ID:** BNA_N

## Daily Analysis Runlog For Sequence/QCBatch ID # BN091825

| | | | | |
|---|---|---|---|---|
| Review By | Rahul | Review On | 9/19/2025 8:50:16 AM | |
| Supervise By | mohammad | Supervise On | 9/23/2025 2:07:38 AM | |
| SubDirectory | BN091825 | HP Acquire Method | BNA_N, 8270_HP Processing Method | bn091125 |

| STD. NAME | STD REF.# |
|---|---|
| Tune/Reschk | SP6757 |
| Initial Calibration Stds | SP6842,SP6843,SP6844,SP6845,SP6846,SP6847,SP6848 |
| CCC | SP6846 |
| Internal Standard/PEM | SP6830,1ul/100ul sample |
| ICV/I.BLK | SP6854 |
| Surrogate Standard | |
| MS/MSD Standard | |
| LCS Standard | |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 19 | SSTDCCC0.4 | SSTDCCC0.4EC | BN037793.D | 19 Sep 2025 00:52 | | RC/JU | Ok |
| 20 | DFTPP | DFTPP | BN037794.D | 19 Sep 2025 02:08 | | RC/JU | Ok |
| 21 | SSTDCCC0.4 | SSTDCCC0.4 | BN037795.D | 19 Sep 2025 02:47 | | RC/JU | Ok |
| 22 | PB169692BL | PB169692BL | BN037796.D | 19 Sep 2025 03:24 | | RC/JU | Ok |
| 23 | Q3095-29 | RE122D2-20250910 | BN037797.D | 19 Sep 2025 04:00 | | RC/JU | Ok |
| 24 | Q3095-30 | RE104D1-20250910 | BN037798.D | 19 Sep 2025 04:37 | | RC/JU | Ok |
| 25 | Q3095-31 | TT180D-20250911 | BN037799.D | 19 Sep 2025 05:13 | | RC/JU | Ok |
| 26 | Q3095-32 | RE122D3-20250911 | BN037800.D | 19 Sep 2025 05:49 | | RC/JU | Ok |
| 27 | Q3097-10 | RE120D3-20250911 | BN037801.D | 19 Sep 2025 06:25 | | RC/JU | Ok |
| 28 | Q3097-11 | RE105D1-20250911 | BN037802.D | 19 Sep 2025 07:01 | | RC/JU | Ok |
| 29 | Q3097-12 | DUP04-20250911 | BN037803.D | 19 Sep 2025 07:37 | | RC/JU | Ok |
| 30 | Q3097-13 | DUP05-20250911 | BN037804.D | 19 Sep 2025 08:13 | Need 2X Dilution | RC/JU | Dilution |
| 31 | Q3097-14 | RE105D2-20250911 | BN037805.D | 19 Sep 2025 08:49 | | RC/JU | Ok |
| 32 | Q3097-15 | RE117D2-20250911 | BN037806.D | 19 Sep 2025 09:25 | | RC/JU | Ok |
| 33 | Q3097-19 | RE120D1-20250912 | BN037807.D | 19 Sep 2025 10:02 | Need 2X Dilution | RC/JU | Dilution |
| 34 | Q3127-13 | TT119S1-20250916 | BN037808.D | 19 Sep 2025 10:38 | | RC/JU | Ok |
| 35 | Q3127-14MS | TT119S1-20250916MS | BN037809.D | 19 Sep 2025 11:50 | | RC/JU | Ok,M |
| 36 | Q3127-15MSD | TT119S1-20250916MS | BN037810.D | 19 Sep 2025 12:27 | | RC/JU | Ok,M |
| 37 | SSTDCCC0.4 | SSTDCCC0.4EC | BN037811.D | 19 Sep 2025 13:03 | | RC/JU | Ok |

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Fax : 908 789 8922

**Instrument ID:** BNA_N

## Daily Analysis Runlog For Sequence/QCBatch ID # BN091825

| | | | | |
|---|---|---|---|---|
| Review By | Rahul | Review On | 9/19/2025 8:50:16 AM | |
| Supervise By | mohammad | Supervise On | 9/23/2025 2:07:38 AM | |
| SubDirectory | BN091825 | HP Acquire Method | BNA_N, 8270_HP Processing Method | bn091125 |

| STD. NAME | STD REF.# |
|---|---|
| Tune/Reschk | SP6757 |
| Initial Calibration Stds | SP6842,SP6843,SP6844,SP6845,SP6846,SP6847,SP6848 |
| CCC | SP6846 |
| Internal Standard/PEM | SP6830,1ul/100ul sample |
| ICV/I.BLK | SP6854 |
| Surrogate Standard | |
| MS/MSD Standard | |
| LCS Standard | |

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**Instrument ID:** BNA_N

## Daily Analysis Runlog For Sequence/QCBatch ID # BN091925

| | | | | |
|---|---|---|---|---|
| Review By | Rahul | Review On | 9/22/2025 8:49:07 AM | |
| Supervise By | mohammad | Supervise On | 9/23/2025 2:08:18 AM | |
| SubDirectory | BN091925 | HP Acquire Method | BNA_N, 8270_HP Processing Method | bn091125 |

| STD. NAME | STD REF.# |
|---|---|
| Tune/Reschk | SP6757 |
| Initial Calibration Stds | SP6842,SP6843,SP6844,SP6845,SP6846,SP6847,SP6848 |
| CCC | SP6846 |
| Internal Standard/PEM | SP6830,1ul/100ul sample |
| ICV/I.BLK | SP6854 |
| Surrogate Standard | |
| MS/MSD Standard | |
| LCS Standard | |

| Sr# | SampleId | ClientID | Data File Name | Date-Time | Comment | Operator | Status |
|---|---|---|---|---|---|---|---|
| 1 | DFTPP | DFTPP | BN037812.D | 19 Sep 2025 13:39 | | RC/JU | Ok |
| 2 | SSTDCCC0.4 | SSTDCCC0.4 | BN037813.D | 19 Sep 2025 14:19 | | RC/JU | Ok |
| 3 | PB169743BL | PB169743BL | BN037814.D | 19 Sep 2025 14:55 | | RC/JU | Ok |
| 4 | Q3095-27 | RE117D1-20250910 | BN037815.D | 19 Sep 2025 15:32 | | RC/JU | Ok |
| 5 | Q3083-03DL | MW3SDL | BN037816.D | 19 Sep 2025 16:08 | | RC/JU | Ok |
| 6 | Q3097-13DL | DUP05-20250911DL | BN037817.D | 19 Sep 2025 16:45 | | RC/JU | Ok |
| 7 | Q3097-19DL | RE120D1-20250912DL | BN037818.D | 19 Sep 2025 17:21 | | RC/JU | Ok |
| 8 | Q3097-21 | RE120D2-20250912 | BN037819.D | 19 Sep 2025 17:58 | | RC/JU | Ok |
| 9 | Q3097-22 | RE134D1-20250912 | BN037820.D | 19 Sep 2025 18:34 | | RC/JU | Ok |
| 10 | Q3097-23 | RE134D4-20250912 | BN037821.D | 19 Sep 2025 19:11 | | RC/JU | Ok |
| 11 | Q3097-24 | RE134D2-20250912 | BN037822.D | 19 Sep 2025 19:47 | Need 2X Dilution | RC/JU | Dilution |
| 12 | Q3097-25 | RE134D3-20250912 | BN037823.D | 19 Sep 2025 20:24 | Need 2X Dilution | RC/JU | Dilution |
| 13 | Q3097-26 | EB01-20250912 | BN037824.D | 19 Sep 2025 21:00 | | RC/JU | Ok |
| 14 | Q3127-01 | DUP08-20250915 | BN037825.D | 19 Sep 2025 21:37 | | RC/JU | Ok |
| 15 | Q3127-02 | RE131D1-20250915 | BN037826.D | 19 Sep 2025 22:13 | Need 2X Dilution | RC/JU | Dilution |
| 16 | Q3127-03 | RE131D2-20250915 | BN037827.D | 19 Sep 2025 22:50 | Need 2X Dilution | RC/JU | Dilution |
| 17 | Q3127-04 | DUP07-20250915 | BN037828.D | 19 Sep 2025 23:26 | Need 2X Dilution | RC/JU | Dilution |
| 18 | PB169743BS | PB169743BS | BN037829.D | 20 Sep 2025 00:03 | | RC/JU | Ok |

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**Instrument ID:** BNA_N

## Daily Analysis Runlog For Sequence/QCBatch ID # BN091925

| | | | | |
|---|---|---|---|---|
| Review By | Rahul | Review On | 9/22/2025 8:49:07 AM | |
| Supervise By | mohammad | Supervise On | 9/23/2025 2:08:18 AM | |
| SubDirectory | BN091925 | HP Acquire Method | BNA_N, 8270_HP Processing Method | bn091125 |

| STD. NAME | STD REF.# |
|---|---|
| Tune/Reschk | SP6757 |
| Initial Calibration Stds | SP6842,SP6843,SP6844,SP6845,SP6846,SP6847,SP6848 |
| CCC | SP6846 |
| Internal Standard/PEM | SP6830,1ul/100ul sample |
| ICV/I.BLK | SP6854 |
| Surrogate Standard | |
| MS/MSD Standard | |
| LCS Standard | |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 19 | SSTDCCC0.4 | SSTDCCC0.4EC | BN037830.D | 20 Sep 2025 00:39 | | RC/JU | Ok |
| 20 | DFTPP | DFTPP | BN037831.D | 20 Sep 2025 01:16 | | RC/JU | Ok |
| 21 | SSTDCCC0.4 | SSTDCCC0.4 | BN037832.D | 20 Sep 2025 02:35 | | RC/JU | Ok |
| 22 | PB169743BL | PB169743BL | BN037833.D | 20 Sep 2025 03:12 | | RC/JU | Ok |
| 23 | Q3127-05 | TT158I1-20250915 | BN037834.D | 20 Sep 2025 03:48 | | RC/JU | Ok |
| 24 | Q3127-06 | TT180D2-20250915 | BN037835.D | 20 Sep 2025 04:25 | | RC/JU | Ok |
| 25 | Q3127-07 | RE135D2-20250915 | BN037836.D | 20 Sep 2025 05:01 | | RC/JU | Ok |
| 26 | Q3127-08 | RE132D6-20250916 | BN037837.D | 20 Sep 2025 05:37 | Need 2X Dilution | RC/JU | Dilution |
| 27 | Q3127-09 | TT101D2-20250915 | BN037838.D | 20 Sep 2025 06:13 | | RC/JU | Ok |
| 28 | Q3127-10 | TT101D-20250915 | BN037839.D | 20 Sep 2025 06:50 | | RC/JU | Ok |
| 29 | Q3127-11 | RE135D3-20250915 | BN037840.D | 20 Sep 2025 07:26 | | RC/JU | Ok |
| 30 | Q3127-12 | RE132D7-20250916 | BN037841.D | 20 Sep 2025 08:02 | | RC/JU | Ok |
| 31 | Q3127-16 | TT101D2-20250915 | BN037842.D | 20 Sep 2025 08:38 | Need 2X Dilution | RC/JU | Dilution |
| 32 | Q3095-28 | RE104D3-20250910 | BN037843.D | 20 Sep 2025 09:14 | | RC/JU | Ok |
| 33 | Q3097-20 | DUP06-20250912 | BN037844.D | 20 Sep 2025 09:51 | Need 2X Dilution | RC/JU | Dilution |
| 34 | Q3127-18 | BPOW1-8-20250917 | BN037845.D | 20 Sep 2025 10:27 | | RC/JU | Ok |
| 35 | Q3127-19 | BPOW1-7-20250917 | BN037846.D | 20 Sep 2025 11:03 | | RC/JU | Ok |
| 36 | SSTDCCC0.4 | SSTDCCC0.4EC | BN037847.D | 20 Sep 2025 11:39 | | RC/JU | Ok |

M : Manual Integration

Alliance TECHNICAL GROUP

**EXTRACTION LOGPAGE**

PB169692

**SOP ID:** M3510C,3580A-Extraction SVOC-21

**Clean Up SOP #:** N/A

**Matrix :** Water

**Weigh By:** N/A

**Balance check:** N/A

**Balance ID:** N/A

**pH Strip Lot#:** N/A

**Extraction By:** RJ

**Filter By:** RJ

**pH Meter ID:** N/A

**Hood ID:** 4,5,6,7

**Extraction Start Date :** 09/15/2025

**Extraction Start Time :** 10:15

**Extraction End Date :** 09/15/2025

**Extraction End Time :** 14:30

**Concentration By:** EH

**Supervisor By :** ritesh

**Extraction Method:** [√] Seperatory Funnel [ ] Continious Liquid/Liquid [ ] Sonication [ ] Waste Dilution [ ] Soxhlet

| Standared Name | MLS USED | Concentration ug/mL | STD REF. # FROM LOG |
|---|---|---|---|
| Spike Sol 1 | 1.0ML | 0.4 PPM | SP6855 |
| Surrogate | 1.0ML | 0.4 PPM | SP6831 |
| 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 | E3937 |
| Baked Na2SO4 | N/A | EP2639 |
| H2SO4 1:1 | N/A | EP2610 |
| 10N NaoH | N/A | EP2609 |
| 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-1,2

**KD Bath Temperature:** 60 °C

**Envap ID:** NEVAP-02

**Envap Temperature:** 40 °C

| Date / Time | Prepped Sample Relinquished By/Location | Received By/Location |
|---|---|---|
| 9/15/25 | RJ ( EXT-1(wb) | Rc/svoc |
| 14:35 | **Preparation Group** | **Analysis Group** |

Alliance TECHNICAL GROUP

**EXTRACTION LOGPAGE**

**PrepBatch ID : PB169692**

**Analytical Method:** M3510C,3580A-Extraction SVOC-21

**Concentration Date:** 09/15/2025

| Sample ID | Client Sample ID | Test | g / mL | PH | Surr/Spike By: | | Final Vol. (mL) | JarID | Comments | Prep Pos |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | AddedBy | VerifiedBy | | | | |
| PB169692BL | SBLK692 | SVOC-SIMGroup1 | 1000 | N/A | ritesh | Evelyn | 1 | | | SEP-1 |
| PB169692BS | SLCS692 | SVOC-SIMGroup1 | 1000 | N/A | ritesh | Evelyn | 1 | | | 2 |
| Q3086-01 | RW8-SP100-20250911 | SVOC-SIMGroup1 | 1000 | N/A | ritesh | Evelyn | 1 | D | | 3 |
| Q3086-02 | RW8-SP303-20250911 | SVOC-SIMGroup1 | 1000 | N/A | ritesh | Evelyn | 1 | D | | 4 |
| Q3095-01 | MW30S1-20250908 | SVOC-SIMGroup1 | 980 | N/A | ritesh | Evelyn | 1 | C | | 5 |
| Q3095-02 | MW179D-20250908 | SVOC-SIMGroup1 | 1000 | N/A | ritesh | Evelyn | 1 | C | | 6 |
| Q3095-03 | MW201D-20250908 | SVOC-SIMGroup1 | 1000 | N/A | ritesh | Evelyn | 1 | C | | 7 |
| Q3095-04 | MW179D1-20250908 | SVOC-SIMGroup1 | 1000 | N/A | ritesh | Evelyn | 1 | C | | 8 |
| Q3095-05 | MW203D2-20250909 | SVOC-SIMGroup1 | 1000 | N/A | ritesh | Evelyn | 1 | C | | 9 |
| Q3095-06 | Q3095-05MS | SVOC-SIMGroup1 | 1000 | N/A | ritesh | Evelyn | 1 | C | | 10 |
| Q3095-07 | Q3095-05MSD | SVOC-SIMGroup1 | 1000 | N/A | ritesh | Evelyn | 1 | C | | 11 |
| Q3095-08 | MW203D1-20250909 | SVOC-SIMGroup1 | 1000 | N/A | ritesh | Evelyn | 1 | C | | 12 |
| Q3095-09 | MW179D2-20250909 | SVOC-SIMGroup1 | 970 | N/A | ritesh | Evelyn | 1 | C | | 13 |
| Q3095-10 | MW201D1-20250909 | SVOC-SIMGroup1 | 1000 | N/A | ritesh | Evelyn | 1 | C | | 14 |
| Q3095-11 | RE122D1-20250909 | SVOC-SIMGroup1 | 1000 | N/A | ritesh | Evelyn | 1 | C | | 15 |
| Q3095-12 | MW202D-20250909 | SVOC-SIMGroup1 | 1000 | N/A | ritesh | Evelyn | 1 | C | | 16 |
| Q3095-13 | MW178I1-20250909 | SVOC-SIMGroup1 | 1000 | N/A | ritesh | Evelyn | 1 | C | | SEP-1 |
| Q3095-14 | RE123D1-20250909 | SVOC-SIMGroup1 | 970 | N/A | ritesh | Evelyn | 1 | C | | 2 |
| Q3095-15 | RE123D3-20250909 | SVOC-SIMGroup1 | 990 | N/A | ritesh | Evelyn | 1 | C | | 3 |
| Q3095-16 | MW305D-20250909 | SVOC-SIMGroup1 | 1000 | N/A | ritesh | Evelyn | 1 | C | | 4 |
| Q3095-17 | DUP01-20250909 | SVOC-SIMGroup1 | 1000 | N/A | ritesh | Evelyn | 1 | C | | 5 |
| Q3095-18 | RE126D2-20250909 | SVOC-SIMGroup1 | 1000 | N/A | ritesh | Evelyn | 1 | C | | 6 |
| Q3095-19 | RE126D3-20250909 | SVOC-SIMGroup1 | 1000 | N/A | ritesh | Evelyn | 1 | C | | 7 |
| Q3095-20 | MW178S-20250910 | SVOC-SIMGroup1 | 1000 | N/A | ritesh | Evelyn | 1 | C | | 8 |

* **Extracts relinguished on the same date as received.**

RJ
9/15

'69694 10:15

# WORKLIST(Hardcopy Internal Chain)

**WorkList Name :** Q3086 **WorkList ID :** 191876 **Department :** Extraction **Date :** 09-15-2025 10:10:33

| Sample | Customer Sample | Matrix | Test | Preservative | Customer | Raw Sample Storage Location | Collect Date | Method |
|---|---|---|---|---|---|---|---|---|
| Q3086-01 | RW8-SP100-20250911 | Water | SVOC-SIMGroup1 | Cool 4 deg C | TETR06 | D31 | 09/11/2025 | 8270-Modified |
| Q3086-02 | RW8-SP303-20250911 | Water | SVOC-SIMGroup1 | Cool 4 deg C | TETR06 | D31 | 09/11/2025 | 8270-Modified |
| Q3095-01 | MW30S1-20250908 | Water | SVOC-SIMGroup1 | Cool 4 deg C | AECO15 | D31 | 09/08/2025 | 8270-Modified |
| Q3095-02 | MW179D-20250908 | Water | SVOC-SIMGroup1 | Cool 4 deg C | AECO15 | D31 | 09/08/2025 | 8270-Modified |
| Q3095-03 | MW201D-20250908 | Water | SVOC-SIMGroup1 | Cool 4 deg C | AECO15 | D31 | 09/08/2025 | 8270-Modified |
| Q3095-04 | MW179D1-20250908 | Water | SVOC-SIMGroup1 | Cool 4 deg C | AECO15 | D31 | 09/08/2025 | 8270-Modified |
| Q3095-05 | MW203D2-20250909 | Water | SVOC-SIMGroup1 | Cool 4 deg C | AECO15 | D31 | 09/09/2025 | 8270-Modified |
| Q3095-06 | Q3095-05MS | Water | SVOC-SIMGroup1 | Cool 4 deg C | AECO15 | D31 | 09/09/2025 | 8270-Modified |
| Q3095-07 | Q3095-05MSD | Water | SVOC-SIMGroup1 | Cool 4 deg C | AECO15 | D31 | 09/09/2025 | 8270-Modified |
| Q3095-08 | MW203D1-20250909 | Water | SVOC-SIMGroup1 | Cool 4 deg C | AECO15 | D31 | 09/09/2025 | 8270-Modified |
| Q3095-09 | MW179D2-20250909 | Water | SVOC-SIMGroup1 | Cool 4 deg C | AECO15 | D31 | 09/09/2025 | 8270-Modified |
| Q3095-10 | MW201D1-20250909 | Water | SVOC-SIMGroup1 | Cool 4 deg C | AECO15 | D31 | 09/09/2025 | 8270-Modified |
| Q3095-11 | RE122D1-20250909 | Water | SVOC-SIMGroup1 | Cool 4 deg C | AECO15 | D31 | 09/09/2025 | 8270-Modified |
| Q3095-12 | MW202D-20250909 | Water | SVOC-SIMGroup1 | Cool 4 deg C | AECO15 | D31 | 09/09/2025 | 8270-Modified |
| Q3095-13 | MW178I1-20250909 | Water | SVOC-SIMGroup1 | Cool 4 deg C | AECO15 | D31 | 09/09/2025 | 8270-Modified |
| Q3095-14 | RE123D1-20250909 | Water | SVOC-SIMGroup1 | Cool 4 deg C | AECO15 | D31 | 09/09/2025 | 8270-Modified |
| Q3095-15 | RE123D3-20250909 | Water | SVOC-SIMGroup1 | Cool 4 deg C | AECO15 | D31 | 09/09/2025 | 8270-Modified |
| Q3095-16 | MW305D-20250909 | Water | SVOC-SIMGroup1 | Cool 4 deg C | AECO15 | D31 | 09/09/2025 | 8270-Modified |
| Q3095-17 | DUP01-20250909 | Water | SVOC-SIMGroup1 | Cool 4 deg C | AECO15 | D31 | 09/09/2025 | 8270-Modified |
| Q3095-18 | RE126D2-20250909 | Water | SVOC-SIMGroup1 | Cool 4 deg C | AECO15 | D31 | 09/09/2025 | 8270-Modified |
| Q3095-19 | RE126D3-20250909 | Water | SVOC-SIMGroup1 | Cool 4 deg C | AECO15 | D31 | 09/09/2025 | 8270-Modified |

**Date/Time** 9/15/25 10:10

**Raw Sample Received by:** RJ (ERT Lab)

**Raw Sample Relinquished by:**

**Date/Time** 9/15/25 10:50

**Raw Sample Received by:**

**Raw Sample Relinquished by:** RJ (ERT Lab)

# WORKLIST(Hardcopy Internal Chain)

**WorkList Name :** Q3086 **WorkList ID :** 191876 **Department :** Extraction **Date :** 09-15-2025 10:54:33

| Sample | Customer Sample | Matrix | Test | Preservative | Customer | Raw Sample Storage Location | Collect Date | Method |
|---|---|---|---|---|---|---|---|---|
| Q3095-20 | MW178S-20250910 | Water | SVOC-SIMGroup1 | Cool 4 deg C | AECO15 | D31 | 09/10/2025 | 8270-Modified |

**Date/Time** 9/15/25 10:10
**Raw Sample Received by:** RJ (EXL-Lab)
**Raw Sample Relinquished by:** [signature]



**Date/Time** 9/15/25 10:50
**Raw Sample Received by:** [signature]
**Raw Sample Relinquished by:** RJ (EXL-Lab)

Alliance TECHNICAL GROUP

**EXTRACTION LOGPAGE**

PB169693

**SOP ID:** M3510C,3580A-Extraction SVOC-21

**Clean Up SOP #:** N/A

**Matrix :** Water

**Weigh By:** N/A

**Balance check:** N/A

**Balance ID:** N/A

**pH Strip Lot#:** N/A

**Extraction By:** RJ

**Filter By:** RJ

**pH Meter ID:** N/A

**Hood ID:** 4,5,6,7

**Extraction Start Date :** 09/15/2025

**Extraction Start Time :** 12:00

**Extraction End Date :** 09/15/2025

**Extraction End Time :** 16:30

**Concentration By:** EH

**Supervisor By :** ritesh

**Extraction Method:** [√] Seperatory Funnel [ ] Continious Liquid/Liquid [ ] Sonication [ ] Waste Dilution [ ] Soxhlet

| Standared Name | MLS USED | Concentration ug/mL | STD REF. # FROM LOG |
|---|---|---|---|
| Spike Sol 1 | 1.0ML | 0.4 PPM | SP6855 |
| Surrogate | 1.0ML | 0.4 PPM | SP6831 |
| 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 | E3937 |
| Baked Na2SO4 | N/A | EP2639 |
| H2SO4 1:1 | N/A | EP2610 |
| 10N NaoH | N/A | EP2609 |
| 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-1,2

**KD Bath Temperature:** 60 °C

**Envap ID:** NEVAP-02

**Envap Temperature:** 40 °C

| Date / Time | Prepped Sample Relinquished By/Location | Received By/Location |
|---|---|---|
| 9/15/25 | RJ (EXT-1 cab) | Rclsvoc |
| 16:35 | Preparation Group | Analysis Group |

Alliance TECHNICAL GROUP

**EXTRACTION LOGPAGE**

**PrepBatch ID : PB169693**

**Analytical Method:** M3510C,3580A-Extraction SVOC-21 **Concentration Date:** 09/15/2025

| Sample ID | Client Sample ID | Test | g / mL | PH | Surr/Spike By: | | Final Vol. (mL) | JarID | Comments | Prep Pos |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | AddedBy | VerifiedBy | | | | |
| PB169693BL | SBLK693 | SVOC-SIMGrou p1 | 1000 | 6 | ritesh | Evelyn | 1 | | | SEP-1 |
| PB169693BS | SLCS693 | SVOC-SIMGrou p1 | 1000 | 6 | ritesh | Evelyn | 1 | | | 2 |
| Q3083-03 | MW3S | SVOC-SIM | 1000 | 6 | ritesh | Evelyn | 1 | C | | 3 |
| Q3095-21 | RE126D1-20250910 | SVOC-SIMGrou p1 | 990 | 6 | ritesh | Evelyn | 1 | C | | 4 |
| Q3095-22 | MW202D1-20250910 | SVOC-SIMGrou p1 | 1000 | 6 | ritesh | Evelyn | 1 | C | | 5 |
| Q3095-23 | RE104D2-20250910 | SVOC-SIMGrou p1 | 980 | 6 | ritesh | Evelyn | 1 | C | | 6 |
| Q3095-24 | MW178I-20250910 | SVOC-SIMGrou p1 | 1000 | 6 | ritesh | Evelyn | 1 | C | | 7 |
| Q3095-25 | DUP02-20250910 | SVOC-SIMGrou p1 | 970 | 6 | ritesh | Evelyn | 1 | C | | 8 |
| Q3095-26 | DUP0-20250910 | SVOC-SIMGrou p1 | 1000 | 6 | ritesh | Evelyn | 1 | C | | 9 |
| Q3095-27 | RE117D1-20250910 | SVOC-SIMGrou p1 | 1000 | 6 | ritesh | Evelyn | 1 | C | | 10 |
| Q3095-28 | RE104D3-20250910 | SVOC-SIMGrou p1 | 1000 | 6 | ritesh | Evelyn | 1 | C | | 11 |
| Q3095-29 | RE122D2-20250910 | SVOC-SIMGrou p1 | 980 | 6 | ritesh | Evelyn | 1 | C | | 12 |
| Q3095-30 | RE104D1-20250910 | SVOC-SIMGrou p1 | 1000 | 6 | ritesh | Evelyn | 1 | C | | 13 |
| Q3095-31 | TT180D-20250911 | SVOC-SIMGrou p1 | 1000 | 6 | ritesh | Evelyn | 1 | C | | 14 |
| Q3095-32 | RE122D3-20250911 | SVOC-SIMGrou p1 | 1000 | 6 | ritesh | Evelyn | 1 | C | | 15 |
| Q3097-01 | RE103D2-20250911 | SVOC-SIMGrou p1 | 1000 | 6 | ritesh | Evelyn | 1 | C | | 16 |
| Q3097-02 | Q3097-01MS | SVOC-SIMGrou p1 | 1000 | 6 | ritesh | Evelyn | 1 | C | | SEP-1 |
| Q3097-03 | Q3097-01MSD | SVOC-SIMGrou p1 | 1000 | 6 | ritesh | Evelyn | 1 | C | | 2 |
| Q3097-04 | RE125D1-20250911 | SVOC-SIMGrou p1 | 1000 | 6 | ritesh | Evelyn | 1 | C | | 3 |
| Q3097-05 | RE125D3-20250911 | SVOC-SIMGrou p1 | 1000 | 6 | ritesh | Evelyn | 1 | C | | 4 |
| Q3097-06 | RE103D3-20250911 | SVOC-SIMGrou p1 | 1000 | 6 | ritesh | Evelyn | 1 | C | | 5 |
| Q3097-07 | RE108D2-20250911 | SVOC-SIMGrou p1 | 1000 | 6 | ritesh | Evelyn | 1 | C | | 6 |
| Q3097-08 | RE125D2-20250911 | SVOC-SIMGrou p1 | 1000 | 6 | ritesh | Evelyn | 1 | C | | 7 |
| Q3097-09 | RE108D1-20250911 | SVOC-SIMGrou p1 | 1000 | 6 | ritesh | Evelyn | 1 | C | | 8 |

* **Extracts relinquished on the same date as received.**

RJ 9/15

1696 12:00

# WORKLIST(Hardcopy Internal Chain)

**WorkList Name :** Q3095 **WorkList ID :** 191877 **Department :** Extraction **Date :** 09-15-2025 11:28:17

| Sample | Customer Sample | Matrix | Test | Preservative | Customer | Raw Sample Storage Location | Collect Date | Method |
|---|---|---|---|---|---|---|---|---|
| Q3083-03 | MW3S | Water | SVOC-SIM | Cool 4 deg C | GENV01 | D31 | 09/11/2025 | 8270-Modified |
| Q3095-21 | RE126D1-20250910 | Water | SVOC-SIMGroup1 | Cool 4 deg C | AECO15 | D31 | 09/10/2025 | 8270-Modified |
| Q3095-22 | MW202D1-20250910 | Water | SVOC-SIMGroup1 | Cool 4 deg C | AECO15 | D31 | 09/10/2025 | 8270-Modified |
| Q3095-23 | RE104D2-20250910 | Water | SVOC-SIMGroup1 | Cool 4 deg C | AECO15 | D31 | 09/10/2025 | 8270-Modified |
| Q3095-24 | MW178I-20250910 | Water | SVOC-SIMGroup1 | Cool 4 deg C | AECO15 | D31 | 09/10/2025 | 8270-Modified |
| Q3095-25 | DUP02-20250910 | Water | SVOC-SIMGroup1 | Cool 4 deg C | AECO15 | D31 | 09/10/2025 | 8270-Modified |
| Q3095-26 | DUP0-20250910 | Water | SVOC-SIMGroup1 | Cool 4 deg C | AECO15 | D31 | 09/10/2025 | 8270-Modified |
| Q3095-27 | RE117D1-20250910 | Water | SVOC-SIMGroup1 | Cool 4 deg C | AECO15 | D31 | 09/10/2025 | 8270-Modified |
| Q3095-28 | RE104D3-20250910 | Water | SVOC-SIMGroup1 | Cool 4 deg C | AECO15 | D31 | 09/10/2025 | 8270-Modified |
| Q3095-29 | RE122D2-20250910 | Water | SVOC-SIMGroup1 | Cool 4 deg C | AECO15 | D31 | 09/10/2025 | 8270-Modified |
| Q3095-30 | RE104D1-20250910 | Water | SVOC-SIMGroup1 | Cool 4 deg C | AECO15 | D31 | 09/10/2025 | 8270-Modified |
| Q3095-31 | TT180D-20250911 | Water | SVOC-SIMGroup1 | Cool 4 deg C | AECO15 | D31 | 09/11/2025 | 8270-Modified |
| Q3095-32 | RE122D3-20250911 | Water | SVOC-SIMGroup1 | Cool 4 deg C | AECO15 | D31 | 09/11/2025 | 8270-Modified |
| Q3097-01 | RE103D2-20250911 | Water | SVOC-SIMGroup1 | Cool 4 deg C | AECO15 | D41 | 09/11/2025 | 8270-Modified |
| Q3097-02 | Q3097-01MS | Water | SVOC-SIMGroup1 | Cool 4 deg C | AECO15 | D41 | 09/11/2025 | 8270-Modified |
| Q3097-03 | Q3097-01MSD | Water | SVOC-SIMGroup1 | Cool 4 deg C | AECO15 | D41 | 09/11/2025 | 8270-Modified |
| Q3097-04 | RE125D1-20250911 | Water | SVOC-SIMGroup1 | Cool 4 deg C | AECO15 | D41 | 09/11/2025 | 8270-Modified |
| Q3097-05 | RE125D3-20250911 | Water | SVOC-SIMGroup1 | Cool 4 deg C | AECO15 | D41 | 09/11/2025 | 8270-Modified |
| Q3097-06 | RE103D3-20250911 | Water | SVOC-SIMGroup1 | Cool 4 deg C | AECO15 | D41 | 09/11/2025 | 8270-Modified |
| Q3097-07 | RE108D2-20250911 | Water | SVOC-SIMGroup1 | Cool 4 deg C | AECO15 | D41 | 09/11/2025 | 8270-Modified |
| Q3097-08 | RE125D2-20250911 | Water | SVOC-SIMGroup1 | Cool 4 deg C | AECO15 | D41 | 09/11/2025 | 8270-Modified |

**Date/Time** 09/15/25 11:55

**Raw Sample Received by:** RJ (Ext-Cob)

**Raw Sample Relinquished by:** CP SM

**Date/Time** 09/15/25 12:35

**Raw Sample Received by:** CP SM

**Raw Sample Relinquished by:** RJ (Ext-Cob)

# WORKLIST(Hardcopy Internal Chain)

**WorkList Name :** Q3095 **WorkList ID :** 191877 **Department :** Extraction **Date :** 09-15-2025 11:28:17

| Sample | Customer Sample | Matrix | Test | Preservative | Customer | Raw Sample Storage Location | Collect Date | Method |
|---|---|---|---|---|---|---|---|---|
| Q3097-09 | RE108D1-20250911 | Water | SVOC-SIMGroup1 | Cool 4 deg C | AECO15 | D41 | 09/11/2025 | 8270-Modified |

**Date/Time** 09/15/25 11:55

**Raw Sample Received by:** RJ (CET-Lab)

**Raw Sample Relinquished by:** [signature]



**Date/Time** 09/15/25 12:35

**Raw Sample Received by:** [signature]

**Raw Sample Relinquished by:** RJ (CET-Lab)

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# Prep Standard - Chemical Standard Summary

**Order ID :** Q3095

**Test :** SVOC-SIMGroup1

**Prepbatch ID :** PB169692,PB169693,

**Sequence ID/Qc Batch ID:** BN091725,BN091825,BN091825,BN091925,BN091925,

**Standard ID :**
EP2609,EP2610,EP2639,SP6757,SP6830,SP6831,SP6841,SP6842,SP6843,SP6844,SP6845,SP6846,SP6847,SP6848,SP6853,SP6854,SP6855,

**Chemical ID :**
1ul/100ul sample,E3657,E3875,E3904,E3932,E3940,E3942,E3943,E3973,M6157,S10105,S11073,S11496,S11652,S11807,S11828,S12115,S12195,S12197,S12216,S12220,S12273,S12498,S12499,S12552,S12577,S12670,S12986,S13058,W3112,

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# Extractions STANDARD PREPARATION LOG

| Recipe ID | NAME | NO. | Prep Date | Expiration Date | Prepared By | ScaleID | PipetteID | Supervised By |
|---|---|---|---|---|---|---|---|---|
| 1874 | 10 N SODIUM HYDROXIDE SOLN | EP2609 | 05/07/2025 | 11/07/2025 | RUPESHKUMAR SHAH | Extraction_SCALE_2 (EX-SC-2) | None | Riteshkumar Patel 05/07/2025 |

**FROM** 1000.00000ml of W3112 + 400.00000gram of E3657 = Final Quantity: 1000.000 ml

| Recipe ID | NAME | NO. | Prep Date | Expiration Date | Prepared By | ScaleID | PipetteID | Supervised By |
|---|---|---|---|---|---|---|---|---|
| 314 | 1.1 H2SO4 SOLN | EP2610 | 05/07/2025 | 11/07/2025 | RUPESHKUMAR SHAH | Extraction_SCALE_2 (EX-SC-2) | None | Riteshkumar Patel 05/07/2025 |

**FROM** 1000.00000ml of M6157 + 1000.00000ml of W3112 = Final Quantity: 2000.000 ml

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# Extractions STANDARD PREPARATION LOG

| Recipe ID | NAME | NO. | Prep Date | Expiration Date | Prepared By | ScaleID | PipetteID | Supervised By |
|---|---|---|---|---|---|---|---|---|
| 3923 | Baked Sodium Sulfate | EP2639 | 09/12/2025 | 01/28/2026 | Riteshkumar Patel | Extraction_SCALE_2 (EX-SC-2) | None | Evelyn Huang 09/12/2025 |

**FROM** 4000.00000gram of E3875 = Final Quantity: 4000.000 gram

| Recipe ID | NAME | NO. | Prep Date | Expiration Date | Prepared By | ScaleID | PipetteID | Supervised By |
|---|---|---|---|---|---|---|---|---|
| 3895 | 50 ug/ml DFTPP 8270E | SP6757 | 03/31/2025 | 09/30/2025 | Rahul Chavli | None | None | Jagrut Upadhyay 04/01/2025 |

**FROM** 1.00000ml of S12577 + 19.00000ml of E3904 = Final Quantity: 20.000 ml

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# SVOC STANDARD PREPARATION LOG

| Recipe ID | NAME | NO. | Prep Date | Expiration Date | Prepared By | ScaleID | PipetteID | Supervised By |
|---|---|---|---|---|---|---|---|---|
| 3493 | Internal Standard 0.4 PPM | SP6830 | 06/17/2025 | 12/13/2025 | Jagrut Upadhyay | None | None | Rahul Chavli 06/19/2025 |

**FROM** 0.10000ml of S12670 + 4.90000ml of E3942 = Final Quantity: 5.000 ml

| Recipe ID | NAME | NO. | Prep Date | Expiration Date | Prepared By | ScaleID | PipetteID | Supervised By |
|---|---|---|---|---|---|---|---|---|
| 3491 | 8270-SIM-Surrogate 0.4 PPM | SP6831 | 06/18/2025 | 09/18/2025 | Rahul Chavli | None | None | Jagrut Upadhyay 06/18/2025 |

**FROM** 0.00800ml of S12195 + 0.01600ml of S12216 + 0.04000ml of S11828 + 199.93600ml of E3940 = Final Quantity: 200.000 ml

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# SVOC STANDARD PREPARATION LOG

| Recipe ID | NAME | NO. | Prep Date | Expiration Date | Prepared By | ScaleID | PipetteID | Supervised By |
|---|---|---|---|---|---|---|---|---|
| 3339 | 8270 sim calibration stock 10ppm (CPI) | SP6841 | 06/25/2025 | 10/28/2025 | Jagrut Upadhyay | None | None | Rahul Chavli 06/25/2025 |

**FROM** 0.03350ml of S10105 + 0.05000ml of S11496 + 0.12500ml of S11828 + 0.12500ml of S12115 + 0.25000ml of S12273 + 0.25000ml of S13058 + 24.16650ml of E3943 = Final Quantity: 25.000 ml

| Recipe ID | NAME | NO. | Prep Date | Expiration Date | Prepared By | ScaleID | PipetteID | Supervised By |
|---|---|---|---|---|---|---|---|---|
| 3361 | 8270-SIM MDL-5PPM CALIBRATION SOLUTION | SP6842 | 06/25/2025 | 10/28/2025 | Jagrut Upadhyay | None | None | Rahul Chavli 06/25/2025 |

**FROM** 0.50000ml of E3943 + 0.01000ml of SP6830 + 0.50000ml of SP6841 = Final Quantity: 1.010 ml

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# SVOC STANDARD PREPARATION LOG

| Recipe ID | NAME | NO. | Prep Date | Expiration Date | Prepared By | ScaleID | PipetteID | Supervised By |
|---|---|---|---|---|---|---|---|---|
| 3341 | 8270-SIM MDL-3.2PPM CALIBRATION SOLUTION | SP6843 | 06/25/2025 | 10/28/2025 | Jagrut Upadhyay | None | None | Rahul Chavli 06/25/2025 |

**FROM** 0.68000ml of E3943 + 0.01000ml of SP6830 + 0.32000ml of SP6841 = Final Quantity: 1.010 ml

| Recipe ID | NAME | NO. | Prep Date | Expiration Date | Prepared By | ScaleID | PipetteID | Supervised By |
|---|---|---|---|---|---|---|---|---|
| 3344 | 8270-SIM MDL-1.6PPM CALIBRATION SOLUTION | SP6844 | 06/25/2025 | 10/28/2025 | Jagrut Upadhyay | None | None | Rahul Chavli 06/25/2025 |

**FROM** 0.84000ml of E3943 + 0.01000ml of SP6830 + 0.16000ml of SP6841 = Final Quantity: 1.010 ml

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# SVOC STANDARD PREPARATION LOG

| Recipe ID | NAME | NO. | Prep Date | Expiration Date | Prepared By | ScaleID | PipetteID | Supervised By |
|---|---|---|---|---|---|---|---|---|
| 3342 | 8270-SIM MDL-0.8PPM CALIBRATION SOLUTION | SP6845 | 06/25/2025 | 10/28/2025 | Jagrut Upadhyay | None | None | Rahul Chavli 06/25/2025 |

**FROM** 0.92000ml of E3943 + 0.01000ml of SP6830 + 0.08000ml of SP6841 = Final Quantity: 1.010 ml

| Recipe ID | NAME | NO. | Prep Date | Expiration Date | Prepared By | ScaleID | PipetteID | Supervised By |
|---|---|---|---|---|---|---|---|---|
| 3343 | 8270-SIM MDL-0.4PPM CALIBRATION SOLUTION | SP6846 | 06/25/2025 | 10/28/2025 | Jagrut Upadhyay | None | None | Rahul Chavli 06/25/2025 |

**FROM** 0.96000ml of E3943 + 0.01000ml of SP6830 + 0.04000ml of SP6841 = Final Quantity: 1.010 ml

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# SVOC STANDARD PREPARATION LOG

| Recipe ID | NAME | NO. | Prep Date | Expiration Date | Prepared By | ScaleID | PipetteID | Supervised By |
|---|---|---|---|---|---|---|---|---|
| 3345 | 8270-SIM MDL-0.2PPM CALIBRATION SOLUTION | SP6847 | 06/25/2025 | 10/28/2025 | Jagrut Upadhyay | None | None | Rahul Chavli 06/25/2025 |

**FROM** 0.50000ml of E3943 + 0.01000ml of SP6830 + 0.50000ml of SP6846 = Final Quantity: 1.010 ml

| Recipe ID | NAME | NO. | Prep Date | Expiration Date | Prepared By | ScaleID | PipetteID | Supervised By |
|---|---|---|---|---|---|---|---|---|
| 3346 | 8270-SIM MDL-0.1PPM CALIBRATION SOLUTION | SP6848 | 06/25/2025 | 10/28/2025 | Jagrut Upadhyay | None | None | Rahul Chavli 06/25/2025 |

**FROM** 0.75000ml of E3943 + 0.01000ml of SP6830 + 0.25000ml of SP6846 = Final Quantity: 1.010 ml

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# SVOC STANDARD PREPARATION LOG

| Recipe ID | NAME | NO. | Prep Date | Expiration Date | Prepared By | ScaleID | PipetteID | Supervised By |
|---|---|---|---|---|---|---|---|---|
| 3355 | 8270-SIM MDL-3.2PPM CALIBRATION STOCK SOL- 2ND SOURCE | SP6853 | 07/02/2025 | 09/30/2025 | Jagrut Upadhyay | None | None | Rahul Chavli 07/08/2025 |

**FROM** 0.00630ml of S12197 + 0.01280ml of S12220 + 0.03200ml of S11073 + 0.03200ml of S11828 + 0.06400ml of S12499 + 0.06400ml of S12552 + 0.06400ml of S12986 + 19.72490ml of E3943 = Final Quantity: 20.000 ml

| Recipe ID | NAME | NO. | Prep Date | Expiration Date | Prepared By | ScaleID | PipetteID | Supervised By |
|---|---|---|---|---|---|---|---|---|
| 3356 | 8270-SIM MDL-0.4PPM CALIBRATION SOL ICV-2ND SOURCE | SP6854 | 07/02/2025 | 09/30/2025 | Jagrut Upadhyay | None | None | Rahul Chavli 07/16/2025 |

**FROM** 0.87500ml of E3943 + 0.01000ml of SP6830 + 0.12500ml of SP6853 = Final Quantity: 1.010 ml

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# SVOC STANDARD PREPARATION LOG

| Recipe ID | NAME | NO. | Prep Date | Expiration Date | Prepared By | ScaleID | PipetteID | Supervised By |
|---|---|---|---|---|---|---|---|---|
| 3492 | 8270-SIM-Spike 0.4 PPM | SP6855 | 07/30/2025 | 09/30/2025 | Rahul Chavli | None | None | Jagrut Upadhyay 08/05/2025 |

**FROM** 0.00080ml of S11652 + 0.01000ml of S11807 + 0.02000ml of S12498 + 0.02000ml of S12552 + 0.02000ml of S12986 + 49.92920ml of E3932 = Final Quantity: 50.000 ml

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# CHEMICAL RECEIPT LOG BOOK

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| PCI Scientific Supply, Inc. | PC19510-5 / Sodium Hydroxide Pellets 2.5 Kg, Pk of 4 | 23B1556310 | 12/31/2025 | 12/04/2023 / Rajesh | 12/01/2023 / Rajesh | E3657 |

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| PCI Scientific Supply, Inc. | PC19631-100 / SODIUM SULFATE, ANHYDROUS, PEST GRADE, 1 | 417203 | 01/28/2026 | 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 # |
|---|---|---|---|---|---|---|
| Seidler Chemical | BA-9644-A4 / Methylene Chloride,U-Resi, Cycle-Tainer (215L) | 24K1762005 | 01/07/2026 | 03/13/2025 / | 12/27/2024 / RUPESH | E3904 |

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| Seidler Chemical | BA-9254-03 / Acetone, Ultra Resi (cs/4x4L) | 24H1462005 | 11/05/2025 | 05/05/2025 / RUPESH | 04/23/2025 / RUPESH | E3932 |

| 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 | 12/11/2025 | 06/11/2025 / Rajesh | 06/04/2025 / Rajesh | E3940 |

| 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 |

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

# CHEMICAL RECEIPT LOG BOOK

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| Seidler Chemical | BA-9644-A4 / Methylene Chloride,U-Resi, Cycle-Tainer (215L) | 25A2862010 | 12/13/2025 | 06/13/2025 / Rajesh | 02/28/2025 / Rajesh | E3943 |

| 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-9673-33 / Sulfuric Acid, Instra-Analyzed (cs/6c2.5L) | 24i1262013 | 11/07/2025 | 05/07/2025 / RUPESH | 02/18/2025 / Mohan | M6157 |

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| CPI International | Z-112090-04 / CLP Acid Surrogate Solution, 7500 mg/L, 1ml | 440246 | 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 # |
|---|---|---|---|---|---|---|
| Restek | 31853 / 1,4-Dioxane, 2000 ug/ml , Solvent: Methylene Chloride | A0187043 | 11/16/2025 | 05/16/2025 / Jagrut | 02/06/2023 / Christian | S11073 |

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| CPI International | Z-110094-02 / CLP Base/Neutral Surrogate Solution, 5000 mg/L, 1ml | 506889 | 10/28/2025 | 04/28/2025 / Jagrut | 08/11/2023 / Yogesh | S11496 |

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Fax : 908 789 8922

# CHEMICAL RECEIPT LOG BOOK

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| Restek | 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 | 31853 / 1,4-Dioxane, 2000 ug/ml , Solvent: Methylene Chloride | A0200655 | 01/01/2026 | 07/01/2025 / Rahul | 11/21/2023 / rahul | S11807 |

| 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 |

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| CPI International | z-010223-01 / 1,4-Dioxane Solution, 2,000mg/L, 1ml | 454157 | 10/28/2025 | 04/28/2025 / Jagrut | 03/08/2024 / Rahul | S12115 |

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| Restek | 31087 / Acid Surrogate 10,000ug/ml,methanol,5ml/ ampul | A0206206 | 09/18/2025 | 03/18/2025 / anahy | 03/15/2024 / Rahul | S12195 |

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| Restek | 31087 / Acid Surrogate 10,000ug/ml,methanol,5ml/ ampul | A0206206 | 01/02/2026 | 07/02/2025 / Jagrut | 03/15/2024 / Rahul | S12197 |

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

# CHEMICAL RECEIPT LOG BOOK

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| Restek | 31086 / Base Neutral Surrogate 5000ug/ml,CH2Cl2,5ml | A0206381 | 09/18/2025 | 03/18/2025 / anahy | 03/15/2024 / Rahul | S12216 |

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| Restek | 31086 / Base Neutral Surrogate 5000ug/ml,CH2Cl2,5ml | A0206381 | 01/02/2026 | 07/02/2025 / Jagrut | 03/15/2024 / Rahul | S12220 |

| 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 | 555223 / Custom 8270 Plus Std #1 [2nd lot at $100 per ampul if requested - contact ARM with Request] [CS 4978-1] | A0214021 | 12/04/2025 | 06/04/2025 / Jagrut | 07/23/2024 / RAHUL | S12498 |

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| Restek | 555223 / Custom 8270 Plus Std #1 [2nd lot at $100 per ampul if requested - contact ARM with Request] [CS 4978-1] | A0214021 | 01/01/2026 | 07/01/2025 / Rahul | 07/23/2024 / RAHUL | S12499 |

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| Restek | 555224 / Custom 8270 Plus Std #2 [2nd lot at $85 per ampul if requested - contact ARM with Request] [CS 4978-2] | A0214017 | 01/01/2026 | 07/01/2025 / Rahul | 07/23/2024 / RAHUL | S12552 |

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

# CHEMICAL RECEIPT LOG BOOK

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| Restek | 31615 / SV Mixture, GC/MS Tuning Mixture, CH2Cl2, 1mL, | A0212955 | 06/30/2027 | 03/31/2025 / Rahul | 08/01/2024 / Rahul | S12577 |

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| Restek | 31206 / SV Mix, CLP method, Internal Std, 2000ug/mL, CH2Cl2, 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 | 31850 / 8270 SV Mix, 8270 Mega Mix 1mL, 1000ug/mL, CH2Cl2 [New Solvent 100% CH2Cl2] | A0219438 | 09/30/2025 | 06/04/2025 / Jagrut | 12/11/2024 / anahy | S12986 |

| 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 # |
|---|---|---|---|---|---|---|
| Seidler Chemical | DIW / DI Water | Daily Lab-Certified | 07/03/2029 | 07/03/2024 / Iwona | 07/03/2024 / Iwona | W3112 |

CPI INTERNATIONAL

5580 Skylane Blvd
Santa Rosa, CA 95403

(707)525-5788
(800)878-7654 Toll Free
(707)545-7901 Fax

Manufacturer's Quality System
Audited & Registered
by TUV USA to ISO 9001:2015

Date Received: _____

# Certificate of Analysis

Rev 0 

| Catalog No.: | Lot No.: | Storage: | Solvent: | Exp. Date: | Description: |
|---|---|---|---|---|---|
| Z-112090-04 | 440246 | ≤ -10 °C | Methylene Chloride | 2/16/2026 | CLP Acid Surrogate Solution, 7,500 mg/L, 1 mL |

| Compound | CAS No. | Purity (%) | Compound Lot No. | Concentration, mg/L |
|---|---|---|---|---|
| 2-chlorophenol-$d_4$ | 93951-73-6 | 99.3 | 248.12.7P | 7487 ± 17.2 |
| 2-fluorophenol | 367-12-4 | 99.8 | 10.7.3.3P | 7513 ± 17.26 |
| phenol-d6 | 13127-88-3 | 99.9 | 949.120.8P | 7481 ± 17.19 |
| 2,4,6-tribromophenol | 118-79-6 | 99.8 | 12.1.6P | 7469 ± 17.17 |

Received on
02/25/21
by
CG

S9236
to
S9240

*Not a certified value

Manufactured by o2si smart solutions, Accredited to ISO 9001:2008 by NSF and ISO/IEC 17025:2005 (Certification No. 3031.01) and ISO Guide 34:2009 (Certification No. 3031.02) by A2LA

Certified By: Erica Castiglione

Erica Castiglione
**Chemist**

All weights are traceable through N. I. S. T. Test No. 822/264157-00. Concentration (correct for purity) and uncertainty (95% confidence) values listed are determined gravimetricly.

# RESTEK® CERTIFIED REFERENCE MATERIAL

110 Benner Circle
Bellefonte, PA 16823-8812
Tel: (800)356-1688
Fax: (814)353-1309

www.restek.com

# Certificate of Analysis

ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

**FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.**

*This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.*

Received on 02/06/23 by CG

S11071 to S11075

**Catalog No. :** 31853 **Lot No.:** A0187043

**Description :** 1,4-dioxane

1,4-Dioxane 2,000µg/mL, Methylene Chloride, 1mL/ampul

**Container Size :** 2 mL **Pkg Amt:** > 1 mL

**Expiration Date :** July 31, 2027 **Storage:** 0°C or colder

**Ship:** Ambient

## CERTIFIED VALUES

| Elution Order | Compound | Grav. Conc. (weight/volume) | Expanded Uncertainty (95% C.L.; K=2) | | |
|---|---|---|---|---|---|
| 1 | 1,4-Dioxane | 2,019.0 µg/mL | +/- 11.8486 | µg/mL | Gravimetric |
| | **CAS #** 123-91-1 (Lot SHBN5929) | | +/- 43.2570 | µg/mL | Unstressed |
| | **Purity** 99% | | +/- 44.5129 | µg/mL | Stressed |

**Solvent:** Methylene chloride
**CAS #** 75-09-2
**Purity** 99%

**Column:**
105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

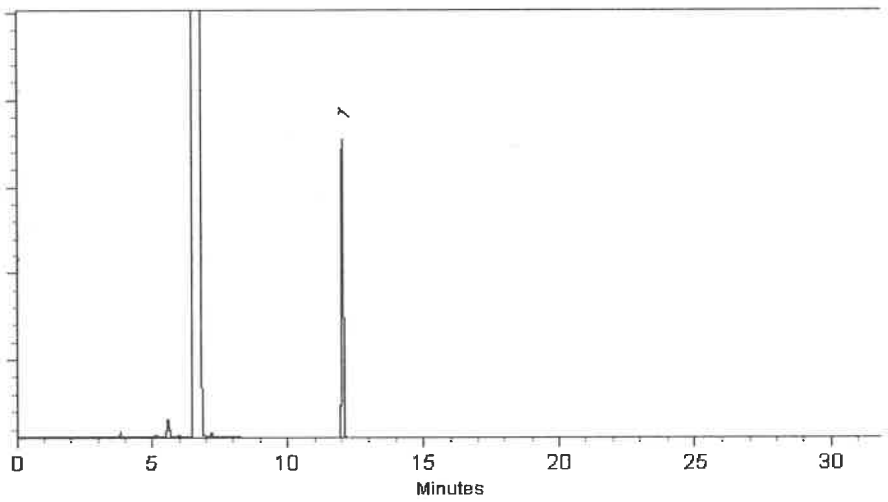
**Carrier Gas:**
hydrogen-constant pressure 11.0 psi.

**Temp. Program:**
40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

**Inj. Temp:**
200°C

**Det. Temp:**
250°C

**Det. Type:**
FID




This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Brittany Federinko - Operations Tech I

**Date Mixed:** 07-Jul-2022 **Balance:** 1128360905

Marlina Cowan – Operations Tech II ARM QC

**Date Passed:** 12-Jul-2022

**Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397**

VWR®

# Certificate of Analysis

## Sodium Hydroxide (Pellets)

**Material:** 0583
**Grade:** ACS GRADE
**Batch Number:** 23B1556310

Chemical Formula: NaOH
Molecular Weight: 40
CAS #: 1310-73-2
Appearance:

Pellets

Manufacture Date: 12/14/2022
Expiration Date: 12/31/2025

Storage: Room Temperature

| TEST | SPECIFICATION | ANALYSIS | DISPOSITION |
|---|---|---|---|
| Calcium | <= 0.005 % | <0.005 % | PASS |
| Chloride | <= 0.005 % | 0.002 % | PASS |
| Heavy Metals | <= 0.002 % | <0.002 % | PASS |
| Iron | <= 0.001 % | <0.001 % | PASS |
| Magnesium | <= 0.002 % | <0.002 % | PASS |
| Mercury | <= 0.1 ppm | <0.1 ppm | PASS |
| Nickel | <= 0.001 % | <0.001 % | PASS |
| Nitrogen Compounds | <= 0.001 % | <0.001 % | PASS |
| Phosphate | <= 0.001 % | <0.001 % | PASS |
| Potassium | <= 0.02 % | <0.02 % | PASS |
| Purity | >= 97.0 % | 99.2 % | PASS |
| Sodium Carbonate | <= 1.0 % | 0.5 % | PASS |
| Sulfate | <= 0.003 % | <0.003 % | PASS |

Internal ID #: 710

### Signature

We certify that this batch conforms to the specifications listed.

This document has been electronically produced and is valid without a signature.

Leona Edwardson, Quality Control Sr. Manager - Solon
VWR Chemicals, LLC.
28600 Fountain Parkway, Solon OH 44139 USA

### Additional Information

Analysis may have been rounded to significant digits in specification limits.

Product meets analytical specifications of the grades listed.

| | |
|---|---|
| E 3657 | E 3659 |
| E 3654 | E 3660 |

PRODUCTOS QUIMICOS MONTERREY, S.A. DE C.V.

MIRADOR 201, COL. MIRADOR
MONTERREY, N.L. MÉXICO
CP 64070
TEL +52 81 13 52 57 57
www.pqm.com.mx

# CERTIFICATE OF ANALYSIS

| | | | |
|---|---|---|---|
| PRODUCT : | SODIUM SULFATE CRYSTALS ANHYDROUS | | |
| QUALITY : | ACS (CODE **RMB3375)** | FORMULA : | $Na_2SO_4$ |
| SPECIFICATION NUMBER: | 6399 | RELEASE DATE: | MAY/23/2024 |
| LOT NUMBER : | 417203 | | |

| TEST | SPECIFICATIONS | LOT VALUES |
|---|---|---|
| Assay ($Na_2SO_4$) | 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 ($PO_4$) | Max. 0.001% | <0.001 % |
| Heavy metals (as Pb) | Max. 5 ppm | <5 ppm |
| Iron (Fe) | Max. 0.001% | <0.001 % |
| Calcium (Ca) | Max. 0.01% | 0.001 % |
| 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 foreing 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.



E 3875

Acetone
BAKER RESI-ANALYZED® Reagent
For Organic Residue Analysis

avantor™ | J.T.Baker

Material No.: 9254-03
Batch No.: 24H1462005
Manufactured Date: 2024-05-24
Expiration Date:2027-05-24
Revision No.: 0

# Certificate of Analysis

| Test | Specification | Result |
|---|---|---|
| Assay ($(CH_3)_2CO$) (by GC, corrected forwater) | >= 99.4 % | 99.8 % |
| Color (APHA) | <= 10 | 5 |
| Residue after Evaporation | <= 1.0 ppm | 0.2 ppm |
| Substances Reducing Permanganate | Passes Test | Passes Test |
| Titrable Acid (µeq/g) | <= 0.3 | 0.2 |
| Titrable Base (µeq/g) | <= 0.6 | <0.1 |
| Water ($H_2O$) | <= 0.5 % | 0.2 % |
| FID-Sensitive Impurities (as 2-Octanol)Single Impurity Peak (ng/mL) | <= 5 | <1 |
| ECD Sensitive Impurities (as HeptachlorEpoxide) Single Peak (pg/mL) | <= 10 | 1 |

For Laboratory,Research,or Manufacturing Use
MEETS SPECIFICATIONS WITHIN THE EXPIRATION PERIOD RS

Country of Origin: United States
Packaging Site: Phillipsburg Mfg Ctr & DC

E 3932

JCroak
Jamie Croak
Director Quality Operations, Bioscience Production

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700

Acetone
BAKER RESI-ANALYZED® Reagent
For Organic Residue Analysis

avantor™ | J.T.Baker

Material No.: 9254-03
Batch No.: 24H1462005
Manufactured Date: 2024-05-24
Expiration Date:2027-05-24
Revision No.: 0

# Certificate of Analysis

| Test | Specification | Result |
|---|---|---|
| Assay ($(CH_3)_2CO$) (by GC, corrected forwater) | >= 99.4 % | 99.8 % |
| Color (APHA) | <= 10 | 5 |
| Residue after Evaporation | <= 1.0 ppm | 0.2 ppm |
| Substances Reducing Permanganate | Passes Test | Passes Test |
| Titrable Acid (µeq/g) | <= 0.3 | 0.2 |
| Titrable Base (µeq/g) | <= 0.6 | <0.1 |
| Water ($H_2O$) | <= 0.5 % | 0.2 % |
| FID-Sensitive Impurities (as 2-Octanol)Single Impurity Peak (ng/mL) | <= 5 | <1 |
| ECD Sensitive Impurities (as HeptachlorEpoxide) Single Peak (pg/mL) | <= 10 | 1 |

For Laboratory,Research,or Manufacturing Use
MEETS SPECIFICATIONS WITHIN THE EXPIRATION PERIOD

Country of Origin: United States
Packaging Site: Phillipsburg Mfg Ctr & DC

Recd by RP on 6/11/25

E3940

JCroak
Jamie Croak
Director Quality Operations, Bioscience Production

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700

Methylene Chloride
ULTRA RESI-ANALYZED
For Organic Residue Analysis
(dichloromethane)

avantor™ | J.T.Baker

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) | <= 5 | <1 |
| ECD Sensitive Impurities (as HeptachlorEpoxide) Single Peak (pg/mL) | <= 10 | 2 |
| Assay ($CH_2Cl_2$) (by GC, exclusive of preservative, corrected for water) | >= 99.8 % | 99.9 % |
| Color (APHA) | <= 10 | 5 |
| Residue after Evaporation | <= 1.0 ppm | 0.3 ppm |
| Titrable Acid (µeq/g) | <= 0.3 | <0.1 |
| Chloride (Cl) | <= 10 ppm | <5 ppm |
| Water (by KF, coulometric) | <= 0.02 % | <0.01 % |

For Laboratory,Research,or Manufacturing Use
MEETS SPECIFICATIONS WITHIN THE EXPIRATION PERIOD

Country of Origin: United States
Packaging Site: Phillipsburg Mfg Ctr & DC

E3942

JCroak
Jamie Croak
Director Quality Operations, Bioscience Production

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700

Methylene Chloride
ULTRA RESI-ANALYZED
For Organic Residue Analysis
(dichloromethane)

avantor™ | J.T.Baker

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) | <= 5 | <1 |
| ECD Sensitive Impurities (as HeptachlorEpoxide) Single Peak (pg/mL) | <= 10 | 2 |
| Assay ($CH_2Cl_2$) (by GC, exclusive of preservative, corrected for water) | >= 99.8 % | 99.9 % |
| Color (APHA) | <= 10 | 5 |
| Residue after Evaporation | <= 1.0 ppm | 0.3 ppm |
| Titrable Acid (µeq/g) | <= 0.3 | <0.1 |
| Chloride (Cl) | <= 10 ppm | <5 ppm |
| Water (by KF, coulometric) | <= 0.02 % | <0.01 % |

For Laboratory,Research,or Manufacturing Use
MEETS SPECIFICATIONS WITHIN THE EXPIRATION PERIOD

Country of Origin: United States
Packaging Site: Phillipsburg Mfg Ctr & DC

E3943

JCroak
Jamie Croak
Director Quality Operations, Bioscience Production

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700

Methylene Chloride
ULTRA RESI-ANALYZED
For Organic Residue Analysis
(dichloromethane)

avantor™ | J.T.Baker

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) | <= 5 | 1 |
| ECD Sensitive Impurities (as HeptachlorEpoxide) Single Peak (pg/mL) | <= 10 | 1 |
| Assay ($CH_2Cl_2$) (by GC, exclusive of preservative, corrected for water) | >= 99.8 % | 100.0 % |
| Color (APHA) | <= 10 | 5 |
| Residue after Evaporation | <= 1.0 ppm | 0.1 ppm |
| Titrable Acid (µeq/g) | <= 0.3 | <0.1 |
| Chloride (Cl) | <= 10 ppm | <5 ppm |
| Water (by KF, coulometric) | <= 0.02 % | <0.01 % |

For Laboratory,Research,or Manufacturing Use
MEETS SPECIFICATIONS WITHIN THE EXPIRATION PERIOD

Country of Origin: United States
Packaging Site: Phillipsburg Mfg Ctr & DC

E 3973

JCroak
Jamie Croak
Director Quality Operations, Bioscience Production

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700

Avantor Performance Materials LLC

Sulfuric Acid
BAKER INSTRA-ANALYZED® Reagent
For Trace Metal Analysis
Low Selenium

avantor | J.T.Baker

M615 MB

Material No.: 9673-33
Batch No.: 24I1262013
Manufactured Date: 2024-08-07
Retest Date:2029-08-06
Revision No.: 0

# Certificate of Analysis

| Test | Specification | Result |
|---|---|---|
| ACS - Assay ($H_2SO_4$) | 95.0 - 98.0 % | 96.2 % |
| Appearance | Passes Test | Passes Test |
| ACS - Color (APHA) | <= 10 | 5 |
| ACS - Residue after Ignition | <= 3 ppm | <1 ppm |
| ACS - Substances Reducing Permanganate(as SO2) | <= 2 ppm | <2 ppm |
| Ammonium ($NH_4$) | <= 1 ppm | <1 ppm |
| Chloride (Cl) | <= 0.1 ppm | <0.1 ppm |
| Nitrate ($NO_3$) | <= 0.2 ppm | 0.1 ppm |
| Phosphate ($PO_4$) | <= 0.5 ppm | <0.1 ppm |
| Trace Impurities - Aluminum (Al) | <= 30.0 ppb | <5.0 ppb |
| Arsenic & Antimony (as As) | <= 4.0 ppb | <2.0 ppb |
| Trace Impurities - Boron (B) | <= 10.0 ppb | <5.0 ppb |
| Trace Impurities - Cadmium (Cd) | <= 2.0 ppb | <1.0 ppb |
| Trace Impurities - Chromium (Cr) | <= 6.0 ppb | <1.0 ppb |
| Trace Impurities - Cobalt (Co) | <= 0.5 ppb | <0.3 ppb |
| Trace Impurities - Copper (Cu) | <= 1.0 ppb | <1.0 ppb |
| Trace Impurities - Gold (Au) | <= 10.0 ppb | <5.0 ppb |
| Heavy Metals (as Pb) | <= 500.0 ppb | <100.0 ppb |
| Trace Impurities - Iron (Fe) | <= 50.0 ppb | <1.0 ppb |
| Trace Impurities - Lead (Pb) | <= 0.5 ppb | <0.5 ppb |
| Trace Impurities - Magnesium (Mg) | <= 7.0 ppb | <1.0 ppb |
| Trace Impurities - Manganese (Mn) | <= 1.0 ppb | <1.0 ppb |
| Trace Impurities - Mercury (Hg) | <= 0.5 ppb | <0.1 ppb |
| Trace Impurities - Nickel (Ni) | <= 2.0 ppb | <0.3 ppb |
| Trace Impurities - Potassium (K) | <= 500.0 ppb | <10.0 ppb |
| Trace Impurities - Selenium (Se) | <= 50.0 ppb | 7.2 ppb |
| Trace Impurities - Silicon (Si) | <= 100.0 ppb | 12.8 ppb |
| Trace Impurities - Silver (Ag) | <= 1.0 ppb | <1.0 ppb |

Sulfuric Acid
BAKER INSTRA-ANALYZED® Reagent
For Trace Metal Analysis
Low Selenium

avantor™ | J.T.Baker

Material No.: 9673-33
Batch No.: 24I1262013

| Test | Specification | Result |
|---|---|---|
| Trace Impurities - Sodium (Na) | <= 500.0 ppb | <5.0 ppb |
| Trace Impurities - Strontium (Sr) | <= 5.0 ppb | <1.0 ppb |
| Trace Impurities - Tin (Sn) | <= 5.0 ppb | 1.1 ppb |
| Trace Impurities - Zinc (Zn) | <= 5.0 ppb | <1.0 ppb |

For Laboratory,Research,or Manufacturing Use

Country of Origin: United States
Packaging Site: Phillipsburg Mfg Ctr & DC

J Croak

Jamie Croak
Director Quality Operations, Bioscience Production

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700

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Date Received:_____

# Certificate of Analysis

Rev 0 

| Catalog No.: | Lot No.: | Storage: | Solvent: | Exp. Date: | Description: |
|---|---|---|---|---|---|
| Z-110094-02 | 506889 | ≤ -10 °C | Methylene Chloride | 7/25/2028 | CLP Base/Neutral Surrogate Solution, 5,000 mg/L, 1 ml |

| Compound | CAS No. | Purity (%) | Compound Lot No. | Concentration, mg/L |
|---|---|---|---|---|
| 1,2-dichlorobenzene-$d_4$ | 2199-69-1 | 99.7 | 247.29.3P | 5035 ± 28.02 |
| 2-fluorobiphenyl | 321-60-8 | 99.69 | 8.286.1.1P | 4999 ± 103.66 |
| nitrobenzene-d5 | 4165-60-0 | 99.67 | 7.9.3P | 4988 ± 27.32 |
| p-terphenyl-d14 | 1718-51-0 | 99.3 | 9.120.8P | 5005 ± 27.85 |

511494 to 511498 } Y.P. 08/11/2023

*Not a certified value

Certified By: _____

Clint Tipton
**Chemist**

All weights are traceable through N. I. S. T. Test No. 822/264157-00. Concentration (correct for purity) and uncertainty (95% confidence) values listed are determined gravimetricly.

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# Certificate of Analysis

***gravimetric***

ACCREDITED ISO 17034 Accredited Reference Material Producer Certificate #3222.01

ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

**FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.**

*This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.*

**Catalog No. :** 555872 **Lot No.:** A0201728

**Description :** Custom Pentachlorophenol Standard

Custom Pentachlorophenol Standard 25,000µg/mL, Methanol, 1mL/ampul

**Container Size :** 2 mL **Pkg Amt:** > 1 mL

**Expiration Date :** September 30, 2026 **Storage:** 10°C or colder

**Ship:** Ambient

511649 ↓ 511658 Y.P. 11/13/23

CERTIFIED VALUES

| Component # | Compound | CAS # | Lot # | Purity | Grav. Conc. (weight/volume) | Expanded Uncertainty * (95% C.L.; K=2) |
|---|---|---|---|---|---|---|
| 1 | Pentachlorophenol | 87-86-5 | RP230530RSR | 99% | 25,000.0 µg/mL | +/- 777.0837 |

**Solvent:** Methanol
**CAS #** 67-56-1
**Purity** 99%

Josh McCloskey - Operations Technician I

**Date Mixed:** 05-Sep-2023 **Balance:** B251644995

**Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397**

## General Certified Reference Material Notes

### Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

### Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

### Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  *k* is a coverage factor of 2, which gives a level of confidence of approximately 95%.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

### Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

### Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

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## CERTIFIED REFERENCE MATERIAL

# Certificate of Analysis

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**FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.**

*This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.*

**Catalog No. :** 31853 **Lot No.:** A0200655

**Description :** 1,4-dioxane

1,4-Dioxane 2,000µg/mL, Methylene Chloride, 1mL/ampul

**Container Size :** 2 mL **Pkg Amt:** > 1 mL

**Expiration Date :** August 31, 2028 **Storage:** 0°C or colder

**Ship:** Ambient

S11795 ↓ S11808 RC 11/30/23

CERTIFIED VALUES

| Elution Order | Compound | CAS # | Lot # | Purity | Grav. Conc. (weight/volume) | Expanded Uncertainty * (95% C.L.; K=2) |
|---|---|---|---|---|---|---|
| 1 | 1,4-Dioxane | 123-91-1 | SHBQ1693 | 99% | 2,007.0 µg/mL | +/- 24.9775 |

* 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.)

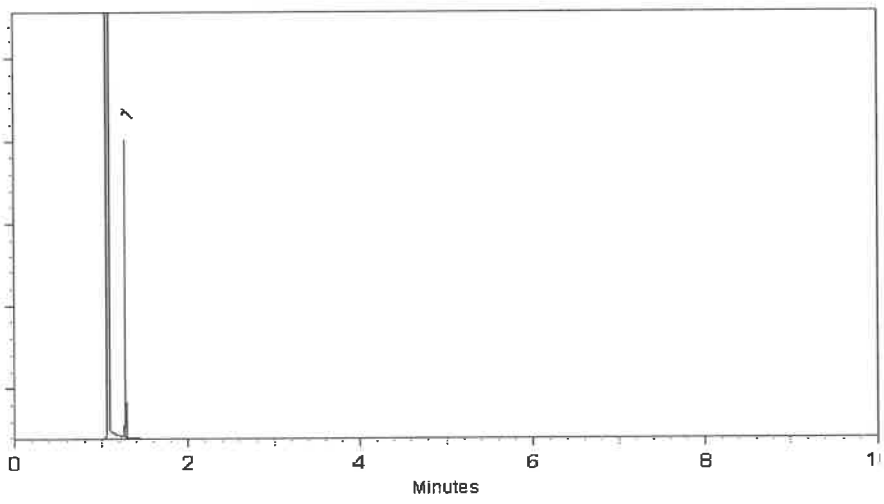
**Inj. Temp:**
250°C

**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 Riglin - Operations Tech I

**Date Mixed:** 06-Aug-2023 **Balance Serial #** 1128360905

Jennifer Pollino - Operations Tech III - ARM QC

**Date Passed:** 08-Aug-2023

**Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397**

## General Certified Reference Material Notes

### Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

### Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

### Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  $k$ is a coverage factor of 2, which gives a level of confidence of approximately 95%.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

### Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

### Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

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**FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.**

*This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.*

**Catalog No. :** 33913 **Lot No.:** A0201976

**Description :** SOM01.0 SIM Analysis Standard

SOM01.0 SIM Analysis Standard 2000µg/mL, Methylene chloride, 1mL /ampul

S11828 ↓ S11832 RC/ 11/30/23

**Container Size :** 2 mL **Pkg Amt:** > 1 mL

**Expiration Date :** August 31, 2029 **Storage:** 10°C or colder

**Handling:** Sonication required. Mix is photosensitive. **Ship:** Ambient

CERTIFIED VALUES

| Elution Order | Compound | CAS # | Lot # | Purity | Grav. Conc. (weight/volume) | Expanded Uncertainty * (95% C.L.; K=2) |
|---|---|---|---|---|---|---|
| 1 | 2-Methylnaphthalene-d10 | 7297-45-2 | EF-135 | 98% | 2,015.9 µg/mL | +/- 90.8098 |
| 2 | Fluoranthene-d10 | 93951-69-0 | PR-32557 | 99% | 2,020.0 µg/mL | +/- 90.9963 |

* Expanded Uncertainty displayed in same units as Grav. Conc.

**Solvent:** Methylene chloride
**CAS #** 75-09-2
**Purity** 99%

# Quality Confirmation Test

**Column:**
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

**Carrier Gas:**
hydrogen-constant pressure 10 psi.

**Temp. Program:**
75°C (hold 1 min.) to 330°C
@ 20°C/min. (hold 10 min.)

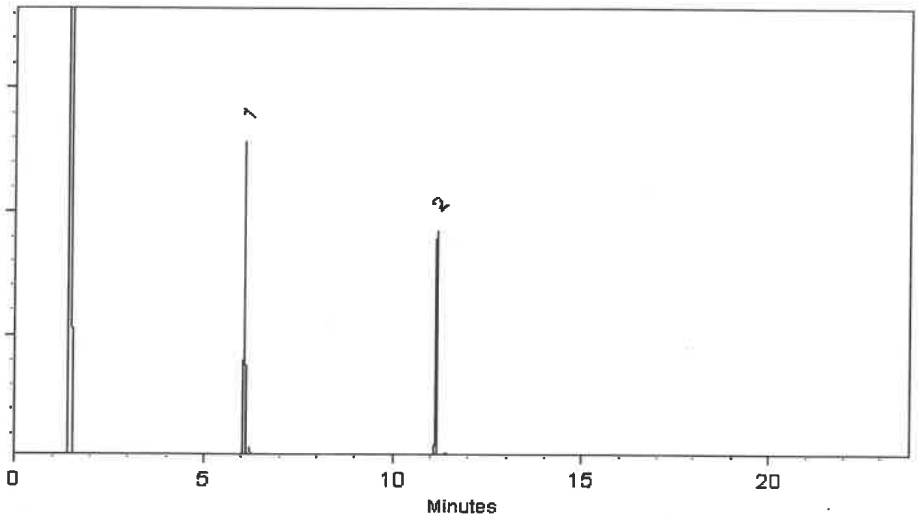
**Inj. Temp:**
250°C

**Det. Temp:**
330°C

**Det. Type:**
FID

**Split Vent:**
10 ml/min.

**Inj. Vol**
1µl




This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Dakota Parson - Operations Technician I

**Date Mixed:** 13-Sep-2023 **Balance Serial #** B442140311

Jennifer Pollino - Operations Tech III - ARM QC

**Date Passed:** 28-Sep-2023

**Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397**

# General Certified Reference Material Notes

## Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

## Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

## Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  $k$ is a coverage factor of 2, which gives a level of confidence of approximately 95%.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

## Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

## Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

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by TUV USA to ISO 9001:2015

Date Received:_____

# Certificate of Analysis

Rev 0



| Catalog No.: | Lot No.: | Storage: | Solvent: | Exp. Date: | Description: |
|---|---|---|---|---|---|
| Z-020223-01 | 454157 | ≤ -10 °C | P/T Methanol | 6/10/2026 | 1,4-Dioxane Solution, 2000 mg/L, 1 mL |

| Compound | CAS No. | Purity (%) | Compound Lot No. | Concentration, mg/L |
|---|---|---|---|---|
| 1,4-dioxane | 123-91-1 | 100 | 223.1.3P | 1997 ± 57.08 |

S12112 ↓ S12116 } RC/ 03/08/24

*Not a certified value

Certified By: Melissa Workoff

Melissa Workoff
**Chemist**

All weights are traceable through N. I. S. T. Test No. 822/264157-00. Concentration (correct for purity) and uncertainty (95% confidence) values listed are determined gravimetricly.

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**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

S12187 ↓ S12206 } RC/ 03/18/24

**Container Size :** 5 mL **Pkg Amt:** > 5 mL

**Expiration Date :** January 31, 2032 **Storage:** 10°C or colder

**Ship:** Ambient

CERTIFIED VALUES

| Elution Order | Compound | CAS # | Lot # | Purity | Grav. Conc. (weight/volume) | Expanded Uncertainty * (95% C.L.; K=2) |
|---|---|---|---|---|---|---|
| 1 | 2-Fluorophenol | 367-12-4 | STBK1705 | 99% | 10,005.3 µg/mL | +/- 302.5390 |
| 2 | Phenol-d6 | 13127-88-3 | PR-33287A | 99% | 10,005.5 µg/mL | +/- 302.5475 |
| 3 | 2,4,6-Tribromophenol | 118-79-6 | RP230831RSR | 99% | 10,006.6 µg/mL | +/- 302.5783 |

* Expanded Uncertainty displayed in same units as Grav. Conc.

**Solvent:** Methanol
**CAS #** 67-56-1
**Purity** 99%

# Quality Confirmation Test

**Column:**
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

**Carrier Gas:**
hydrogen-constant pressure 10 psi.

**Temp. Program:**
40°C (hold 2 min.) to 330°C
@ 10°C/min. (hold 10 min.)

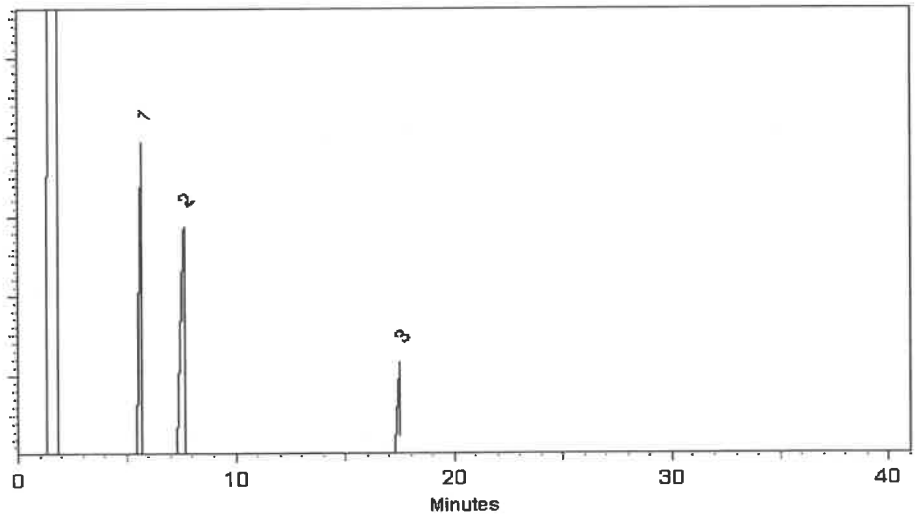
**Inj. Temp:**
250°C

**Det. Temp:**
330°C

**Det. Type:**
FID

**Split Vent:**
2 ml/min.

**Inj. Vol**
1µl




This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Penelope Riglin - Operations Tech I

**Date Mixed:** 04-Jan-2024 **Balance Serial #** 1128360905

Christie Mills - Operations Lead Tech - ARM QC

**Date Passed:** 08-Jan-2024

**Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397**

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Certificate #3222.02

**FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.**

*This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.*

**Catalog No. :** 31087 **Lot No.:** A0206206

**Description :** Acid Surrogate Mix (4/89 SOW)

Acid Surrogate 10, 000µg/mL, Methanol, 5mL/ampul

S12187 ↓ S12206 } RC/ 03/18/24

**Container Size :** 5 mL **Pkg Amt:** > 5 mL

**Expiration Date :** January 31, 2032 **Storage:** 10°C or colder

**Ship:** Ambient

CERTIFIED VALUES

| Elution Order | Compound | CAS # | Lot # | Purity | Grav. Conc. (weight/volume) | Expanded Uncertainty * (95% C.L.; K=2) |
|---|---|---|---|---|---|---|
| 1 | 2-Fluorophenol | 367-12-4 | STBK1705 | 99% | 10,005.3 µg/mL | +/- 302.5390 |
| 2 | Phenol-d6 | 13127-88-3 | PR-33287A | 99% | 10,005.5 µg/mL | +/- 302.5475 |
| 3 | 2,4,6-Tribromophenol | 118-79-6 | RP230831RSR | 99% | 10,006.6 µg/mL | +/- 302.5783 |

* Expanded Uncertainty displayed in same units as Grav. Conc.

**Solvent:** Methanol
**CAS #** 67-56-1
**Purity** 99%

# Quality Confirmation Test

**Column:**
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

**Carrier Gas:**
hydrogen-constant pressure 10 psi.

**Temp. Program:**
40°C (hold 2 min.) to 330°C
@ 10°C/min. (hold 10 min.)

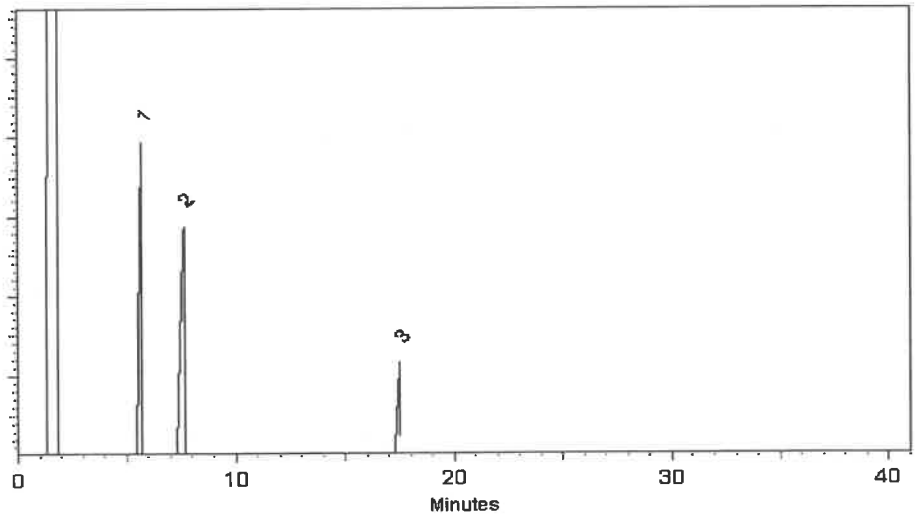
**Inj. Temp:**
250°C

**Det. Temp:**
330°C

**Det. Type:**
FID

**Split Vent:**
2 ml/min.

**Inj. Vol**
1µl




This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Penelope Riglin - Operations Tech I

**Date Mixed:** 04-Jan-2024 **Balance Serial #** 1128360905

Christie Mills - Operations Lead Tech - ARM QC

**Date Passed:** 08-Jan-2024

**Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397**

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

# Certificate of Analysis

*chromatographic plus*

ilac-MRA A2LA ACCREDITED ISO 17034 Accredited Reference Material Producer Certificate #3222.01

ilac-MRA A2LA ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

**FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.**

*This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.*

**Catalog No. :** 31086 **Lot No.:** A0206381

**Description :** B/N Surrogate Mix (4/89 SOW)

Base Neutral Surrogate 5000µg/mL, Methylene Chloride, 5mL/ampul

**Container Size :** 5 mL **Pkg Amt:** > 5 mL

**Expiration Date :** December 31, 2029 **Storage:** 10°C or colder

**Handling:** Sonicate prior to use. **Ship:** Ambient

S12207 ↓ S12221 RC/ 03/18/24

CERTIFIED VALUES

| Elution Order | Compound | CAS # | Lot # | Purity | Grav. Conc. (weight/volume) | Expanded Uncertainty * (95% C.L.; K=2) |
|---|---|---|---|---|---|---|
| 1 | Nitrobenzene-d5 | 4165-60-0 | I-25158 | 99% | 5,029.3 µg/mL | +/- 226.5204 |
| 2 | 2-Fluorobiphenyl | 321-60-8 | 00021384 | 99% | 5,030.9 µg/mL | +/- 226.5936 |
| 3 | p-Terphenyl-d14 | 1718-51-0 | PR-32599 | 99% | 5,026.4 µg/mL | +/- 226.3909 |

* Expanded Uncertainty displayed in same units as Grav. Conc.

**Solvent:** Methylene chloride
**CAS #** 75-09-2
**Purity** 99%

**Tech Tips:**
Due to the limited solubility of p-terphenyl-d14 in methanol, we do not recommend that this mixture be diluted in methanol.

# Quality Confirmation Test

**Column:**
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

**Carrier Gas:**
hydrogen-constant pressure 10 psi.

**Temp. Program:**
40°C (hold 2 min.) to 330°C
@ 10°C/min. (hold 10 min.)

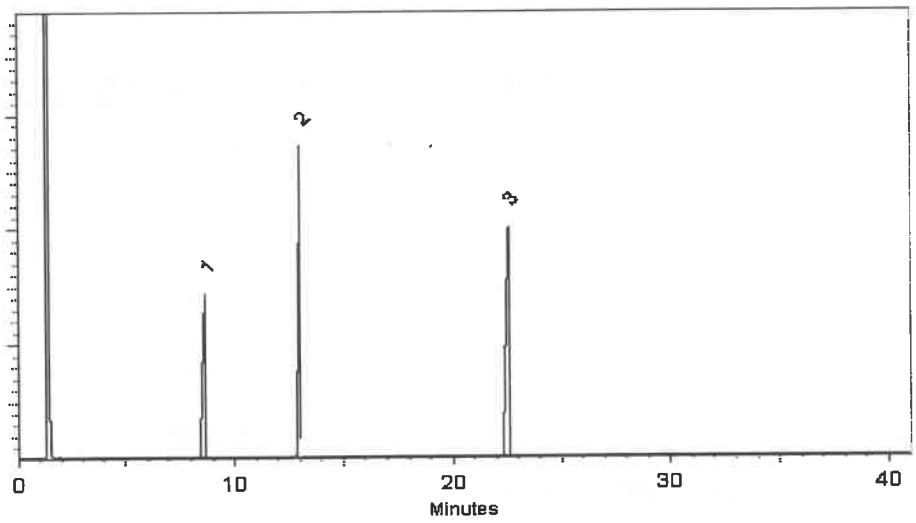
**Inj. Temp:**
250°C

**Det. Temp:**
330°C

**Det. Type:**
FID

**Split Vent:**
2 ml/min.

**Inj. Vol**
1µl




This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Jess Hoy - Operations Tech I

**Date Mixed:** 09-Jan-2024 **Balance Serial #** 1128360905

Jennifer Pollino - Operations Tech III - ARM QC

**Date Passed:** 11-Jan-2024

**Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397**

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CERTIFIED REFERENCE MATERIAL

# Certificate of Analysis

*chromatographic plus*

ilac-MRA A2LA ACCREDITED ISO 17034 Accredited Reference Material Producer Certificate #3222.01

ilac-MRA A2LA ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

**FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.**

*This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.*

**Catalog No. :** 31086 **Lot No.:** A0206381

**Description :** B/N Surrogate Mix (4/89 SOW)

Base Neutral Surrogate 5000µg/mL, Methylene Chloride, 5mL/ampul

**Container Size :** 5 mL **Pkg Amt:** > 5 mL

**Expiration Date :** December 31, 2029 **Storage:** 10°C or colder

**Handling:** Sonicate prior to use. **Ship:** Ambient

S12207 ↓ S12221 RC/ 03/18/24

CERTIFIED VALUES

| Elution Order | Compound | CAS # | Lot # | Purity | Grav. Conc. (weight/volume) | Expanded Uncertainty * (95% C.L.; K=2) |
|---|---|---|---|---|---|---|
| 1 | Nitrobenzene-d5 | 4165-60-0 | I-25158 | 99% | 5,029.3 µg/mL | +/- 226.5204 |
| 2 | 2-Fluorobiphenyl | 321-60-8 | 00021384 | 99% | 5,030.9 µg/mL | +/- 226.5936 |
| 3 | p-Terphenyl-d14 | 1718-51-0 | PR-32599 | 99% | 5,026.4 µg/mL | +/- 226.3909 |

* Expanded Uncertainty displayed in same units as Grav. Conc.

**Solvent:** Methylene chloride
**CAS #** 75-09-2
**Purity** 99%

**Tech Tips:**
Due to the limited solubility of p-terphenyl-d14 in methanol, we do not recommend that this mixture be diluted in methanol.

# Quality Confirmation Test

**Column:**
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

**Carrier Gas:**
hydrogen-constant pressure 10 psi.

**Temp. Program:**
40°C (hold 2 min.) to 330°C
@ 10°C/min. (hold 10 min.)

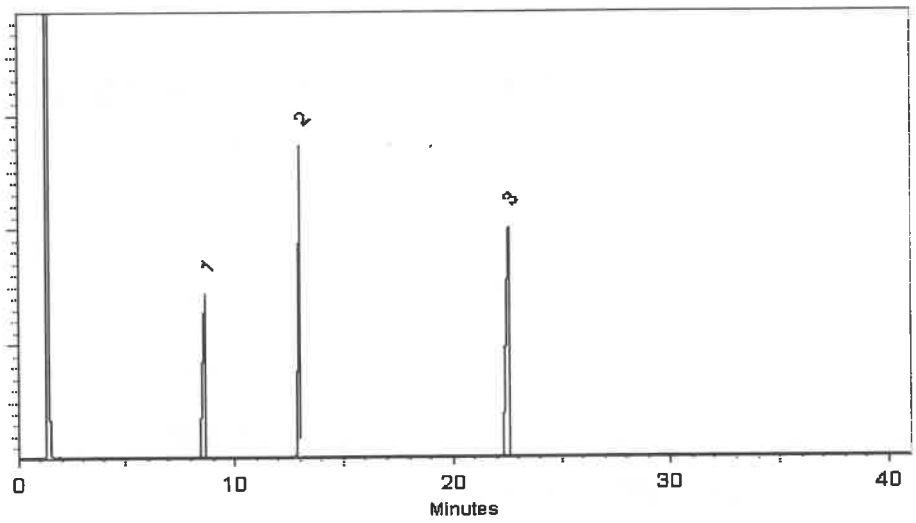
**Inj. Temp:**
250°C

**Det. Temp:**
330°C

**Det. Type:**
FID

**Split Vent:**
2 ml/min.

**Inj. Vol**
1µl




This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Jess Hoy - Operations Tech I

**Date Mixed:** 09-Jan-2024 **Balance Serial #** 1128360905

Jennifer Pollino - Operations Tech III - ARM QC

**Date Passed:** 11-Jan-2024

**Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397**

CPI INTERNATIONAL

5580 Skylane Blvd
Santa Rosa, CA 95403

(707)525-5788
(800)878-7654 Toll Free
(707)545-7901 Fax

Manufacturer's Quality System
Audited & Registered
by TUV USA to ISO 9001:2015

Date Received: _____

# Certificate of Analysis

Rev 0



| Catalog No.: | Lot No.: | Storage: | Solvent: | Exp. Date: | Description: |
|---|---|---|---|---|---|
| Z-110381-01 | 520963 | ≤ -10 °C | Methylene Chloride | 10/10/2028 | Method 8270 Calibration Solution, 76-1, 500 & 1,000 mg/L, 1 mL |

| Compound | CAS No. | Purity (%) | Compound Lot No. | Concentration, mg/L |
|---|---|---|---|---|
| acenaphthene | 83-32-9 | 99.9 | 13.1.5P | 1010 ± 9.89 |
| acenaphthylene | 208-96-8 | 97.6 | 14.290.1P | 1014 ± 9.93 |
| aniline | 62-53-3 | 99.97 | 64.1.4P | 1001 ± 9.8 |
| anthracene | 120-12-7 | 99.5 | 15.7.1P | 999.6 ± 9.79 |
| azobenzene | 103-33-3 | 98.1 | 252.7.2P | 999.1 ± 9.8 |
| benzo[a]anthracene | 56-55-3 | 100 | 16.7.3P | 1007 ± 9.86 |
| benzo[b]fluoranthene | 205-99-2 | 99.8 | 17.421.3P | 1011 ± 14.11 |
| benzo[k]fluoranthene | 207-08-9 | 98.9 | 18.421.4P | 1001 ± 10.96 |
| benzo[ghi]perylene | 191-24-2 | 93 | 19.286.4P | 999.6 ± 13.95 |
| benzo[a]pyrene | 50-32-8 | 97 | 20.286.2P | 999.9 ± 22.24 |
| benzyl alcohol | 100-51-6 | 99.9 | 65.18.1P | 1001 ± 9.82 |
| bis(2-chloroethoxy)methane | 111-91-1 | 99.1 | 31.3.15P | 1000 ± 14.69 |
| bis(2-chloroethyl)ether | 111-44-4 | 99.8 | 32.7.1P | 1003 ± 13.89 |
| bis(2-chloro-1-methylethyl) ether | 108-60-1 | 99.5 | 34.3.15P | 999.4 ± 14.68 |
| bis(2-ethylhexyl)adipate | 103-23-1 | 99.5 | 874.7.1P | 999.5 ± 9.8 |
| bis(2-ethylhexyl)phthalate | 117-81-7 | 99.4 | 33.29.1P | 998.8 ± 17.03 |
| 4-bromophenyl phenyl ether | 101-55-3 | 99.4 | 35.7.1.1P | 1000 ± 13.85 |
| butyl benzyl phthalate | 85-68-7 | 98.4 | 36.1.6P | 984.7 ± 16.79 |
| carbazole | 86-74-8 | 99.4 | 239.7.2P | 1000 ± 9.8 |

S12270 ↓ S12274 } RC 05/24/24

*Not a certified value

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 gravimetricly.

# Certificate of Analysis



**Catalog No.:** Z-110381-01 **Lot No.:** 520963 **Expiration Date:** 10/10/2028

| Compound | CAS No. | Purity (%) | Compound Lot No. | Concentration, mg/L |
|---|---|---|---|---|
| 4-chloroaniline | 106-47-8 | 100 | 66.7.1P | 1000 ± 9.79 |
| 4-chlorophenylphenyl ether | 7005-72-3 | 98 | 37.158.2P | 1001 ± 17.07 |
| 4-chloro-3-methylphenol | 59-50-7 | 99 | 102.1.2P | 1006 ± 17.16 |
| 2-chloronaphthalene | 91-58-7 | 99.9 | 42.7.6P | 1000 ± 9.79 |
| 2-chlorophenol | 95-57-8 | 99.8 | 103.7.1P | 1007 ± 13.96 |
| chrysene | 218-01-9 | 96 | 21.286.2P | 998.4 ± 12.85 |
| dibenz[a,h]anthracene | 53-70-3 | 99.44 | 22.286.3P | 1000 ± 9.74 |
| dibenzofuran | 132-64-9 | 100 | 67.7.2.1P | 1002 ± 9.77 |
| di-n-butyl phthalate | 84-74-2 | 99.84 | 40.286.1P | 1007 ± 24.48 |
| 1,2-dichlorobenzene | 95-50-1 | 99.8 | 43.7.1P | 1000 ± 9.79 |
| 1,3-dichlorobenzene | 541-73-1 | 99.5 | 44.1.3P | 999.4 ± 9.79 |
| 1,4-dichlorobenzene | 106-46-7 | 99.9 | 45.29.2P | 1000 ± 9.79 |
| 2,4-dichlorophenol | 120-83-2 | 99.6 | 104.7.1.1P | 1005 ± 13.93 |
| diethyl phthalate | 84-66-2 | 99.8 | 38.7.1P | 1011 ± 14 |
| 2,4-dimethylphenol | 105-67-9 | 99.6 | 105.7.1.1P | 1009 ± 13.98 |
| dimethyl phthalate | 131-11-3 | 99.9 | 39.9.2P | 996.5 ± 13.8 |
| 1,2-dinitrobenzene | 528-29-0 | 99.86 | 86.7.3.1P | 999.5 ± 9.75 |
| 1,3-dinitrobenzene | 99-65-0 | 100 | 313.7.2P | 998 ± 9.79 |
| 1,4-dinitrobenzene | 100-25-4 | 100 | 907.7.1P | 999.5 ± 9.8 |
| 2,4-dinitrophenol | 51-28-5 | 99.9 | 106.1.6DP | 1002 ± 13.89 |
| 2,4-dinitrotoluene | 121-14-2 | 100 | 87.7.3P | 999.8 ± 13.85 |
| 2,6-dinitrotoluene | 606-20-2 | 99.4 | 88.7.2.1P | 999.6 ± 13.85 |
| di-n-octyl phthalate | 117-84-0 | 99.1 | 41.7.5P | 991.6 ± 13.74 |
| diphenylamine | 122-39-4 | 100 | 78.1.6P | 998 ± 13.79 |
| 2,3,5,6-tetrachlorophenol | 935-95-5 | 97 | 1112.286.1P | 1004 ± 14.02 |
| fluoranthene | 206-44-0 | 98.6 | 23.7.4P | 999.6 ± 9.79 |
| fluorene | 86-73-7 | 98.4 | 24.7.1P | 999.7 ± 9.79 |

*Not a certified value

Certified By: Kerry E Kane

Kerry Kane
**Chemist**

All weights are traceable through N. I. S. T. Test No. 822/264157-00. Concentration (correct for purity) and uncertainty (95% confidence) values listed are determined gravimetricly.

# Certificate of Analysis



**Catalog No.:** Z-110381-01 **Lot No.:** 520963 **Expiration Date:** 10/10/2028

| Compound | CAS No. | Purity (%) | Compound Lot No. | Concentration, mg/L |
|---|---|---|---|---|
| hexachlorobenzene | 118-74-1 | 99 | 46.158.4P | 999.9 ± 13.96 |
| hexachlorobutadiene | 87-68-3 | 97.4 | 47.1.4P | 1000 ± 9.79 |
| hexachlorocyclopentadiene | 77-47-4 | 99.2 | 48.2.2P | 1001 ± 9.8 |
| hexachloroethane | 67-72-1 | 99.9 | 49.1.4P | 1003 ± 9.82 |
| indeno[1,2,3-cd]pyrene | 193-39-5 | 98 | 25.286.4P | 999.4 ± 22.23 |
| isophorone | 78-59-1 | 98.9 | 90.1.4P | 999.9 ± 13.85 |
| 2-methyl-4,6-dinitrophenol | 534-52-1 | 99.6 | 107.421.2DP | 991 ± 24.09 |
| 1-methylnaphthalene | 90-12-0 | 97.1 | 249.7.5P | 999.2 ± 13.95 |
| 2-methylnaphthalene | 91-57-6 | 97.4 | 68.7.2P | 1006 ± 22.38 |
| 2-methylphenol | 95-48-7 | 99.6 | 114.7.3P | 1001 ± 13.87 |
| 3-methylphenol | 108-39-4 | 99.1 | 115.7.4P | 499.7 ± 6.92 |
| 4-methylphenol | 106-44-5 | 99.5 | 116.7.1P | 501.2 ± 6.94 |
| naphthalene | 91-20-3 | 99.8 | 26.9.1P | 1018 ± 9.97 |
| 2-nitroaniline | 88-74-4 | 99.7 | 69.29.1P | 999.6 ± 9.79 |
| 3-nitroaniline | 99-09-2 | 100 | 70.7.3P | 1000 ± 9.74 |
| 4-nitroaniline | 100-01-6 | 99.7 | 71.29.1P | 1001 ± 9.8 |
| nitrobenzene | 98-95-3 | 100 | 94.7.1P | 1000 ± 13.85 |
| 2-nitrophenol | 88-75-5 | 99.1 | 108.29.1P | 996.5 ± 13.81 |
| 4-nitrophenol | 100-02-7 | 100 | 109.7.1P | 1000 ± 13.82 |
| N-nitrosodimethylamine | 62-75-9 | 99.5 | 57.3.19P | 998.5 ± 14.67 |
| N-nitrosodi-n-propylamine | 621-64-7 | 99.8 | 59.286.1P | 996.8 ± 17 |
| pentachlorophenol | 87-86-5 | 99 | 110.1.7P | 1004 ± 13.92 |
| phenanthrene | 85-01-8 | 99.7 | 27.1.5P | 999 ± 12.87 |
| phenol | 108-95-2 | 100 | 112.7.1P | 998.5 ± 13.8 |
| pyrene | 129-00-0 | 99.2 | 28.9.2P | 998.9 ± 9.78 |
| pyridine | 110-86-1 | 100 | 101.24.1P | 999 ± 9.73 |
| 2,3,4,6-Tetrachlorophenol | 58-90-2 | 91.8 | 120.421.1P | 996.5 ± 13.92 |

*Not a certified value

Certified By: Kerry E Kane

Kerry Kane
**Chemist**

All weights are traceable through N. I. S. T. Test No. 822/264157-00. Concentration (correct for purity) and uncertainty (95% confidence) values listed are determined gravimetricly.

# Certificate of Analysis



**Catalog No.:** Z-110381-01 **Lot No.:** 520963 **Expiration Date:** 10/10/2028

| Compound | CAS No. | Purity (%) | Compound Lot No. | Concentration, mg/L |
|---|---|---|---|---|
| 1,2,4-trichlorobenzene | 120-82-1 | 99.6 | 54.29.1P | 999.6 ± 9.79 |
| 2,4,5-trichlorophenol | 95-95-4 | 96.5 | 121.7.1.1P | 999.5 ± 13.85 |
| 2,4,6-trichlorophenol | 88-06-2 | 99.6 | 113.7.1P | 996 ± 13.8 |

*Not a certified value

Certified By: Kerry E Kane

Kerry Kane
**Chemist**

All weights are traceable through N. I. S. T. Test No. 822/264157-00. Concentration (correct for purity) and uncertainty (95% confidence) values listed are determined gravimetricly.

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## CERTIFIED REFERENCE MATERIAL

# Certificate of Analysis

***gravimetric***

ACCREDITED ISO 17034 Accredited Reference Material Producer Certificate #3222.01

ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

**FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.**

*This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.*

**Catalog No. :** 555223 **Lot No.:** A0214021

**Description :** Custom 8270 Plus Standard #1

Custom 8270 Plus Standard #1 1,000µg/mL, Methylene Chloride, 1mL/ampul

**Container Size :** 2 mL **Pkg Amt:** > 1 mL

**Expiration Date :** July 31, 2026 **Storage:** 10°C or colder

**Handling:** This product is photosensitive. **Ship:** Ambient

**CERTIFIED VALUES**

| Component # | Compound | CAS # | Lot # | Purity | Grav. Conc. (weight/volume) | Expanded Uncertainty * (95% C.L.; K=2) |
|---|---|---|---|---|---|---|
| 1 | 3,3'-Dichlorobenzidine | 91-94-1 | S240326RSR | 99% | 1,004.0 µg/mL | +/- 23.0487 |
| 2 | Atrazine | 1912-24-9 | 5FYWL | 99% | 1,005.0 µg/mL | +/- 23.0717 |
| 3 | Benzidine | 92-87-5 | S240430RSR | 99% | 1,006.0 µg/mL | +/- 23.0947 |
| 4 | epsilon-Caprolactam | 105-60-2 | Y16H012 | 99% | 1,000.0 µg/mL | +/- 22.9569 |

**Solvent:** Methylene chloride
**CAS #** 75-09-2
**Purity** 99%

S12449 ↓ S12508 } RC 7/24/24

Rebecca Gingerich - Operations Tech II

**Date Mixed:** 18-Jul-2024 **Balance:** 1128353505

**Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397**

# General Certified Reference Material Notes

## Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

## Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

## Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  $k$ is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

## Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

## Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

## CERTIFIED REFERENCE MATERIAL

# Certificate of Analysis

***gravimetric***

ACCREDITED ISO 17034 Accredited Reference Material Producer Certificate #3222.01

ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

**FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.**

*This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.*

**Catalog No. :** 555223 **Lot No.:** A0214021

**Description :** Custom 8270 Plus Standard #1

Custom 8270 Plus Standard #1 1,000µg/mL, Methylene Chloride, 1mL/ampul

**Container Size :** 2 mL **Pkg Amt:** > 1 mL

**Expiration Date :** July 31, 2026 **Storage:** 10°C or colder

**Handling:** This product is photosensitive. **Ship:** Ambient

**CERTIFIED VALUES**

| Component # | Compound | CAS # | Lot # | Purity | Grav. Conc. (weight/volume) | Expanded Uncertainty * (95% C.L.; K=2) |
|---|---|---|---|---|---|---|
| 1 | 3,3'-Dichlorobenzidine | 91-94-1 | S240326RSR | 99% | 1,004.0 µg/mL | +/- 23.0487 |
| 2 | Atrazine | 1912-24-9 | 5FYWL | 99% | 1,005.0 µg/mL | +/- 23.0717 |
| 3 | Benzidine | 92-87-5 | S240430RSR | 99% | 1,006.0 µg/mL | +/- 23.0947 |
| 4 | epsilon-Caprolactam | 105-60-2 | Y16H012 | 99% | 1,000.0 µg/mL | +/- 22.9569 |

**Solvent:** Methylene chloride
**CAS #** 75-09-2
**Purity** 99%

S12449 ↓ S12508 } RC 7/24/24

Rebecca Gingerich - Operations Tech II

**Date Mixed:** 18-Jul-2024 **Balance:** 1128353505

**Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397**

# General Certified Reference Material Notes

## Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

## Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

## Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  $k$ is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

## Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

## Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

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www.restek.com

## CERTIFIED REFERENCE MATERIAL

# Certificate of Analysis

***gravimetric***

ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

**FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.**

*This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.*

**Catalog No. :** 555224 **Lot No.:** A0214017

**Description :** Custom 8270 Plus Standard #2

Custom 8270 Plus Standard #2 1,000µg/mL, Methylene Chloride, 1mL/ampul

**Container Size :** 2 mL **Pkg Amt:** > 1 mL

**Expiration Date :** July 31, 2026 **Storage:** 10°C or colder

**Ship:** Ambient

CERTIFIED VALUES

| Component # | Compound | CAS # | Lot # | Purity | Grav. Conc. (weight/volume) | Expanded Uncertainty * (95% C.L.; K=2) |
|---|---|---|---|---|---|---|
| 1 | 1,2,4,5-Tetrachlorobenzene | 95-94-3 | MKCT9480 | 99% | 1,005.0 µg/mL | +/- 29.541899 |
| 2 | Acetophenone | 98-86-2 | STBH8205 | 99% | 1,005.0 µg/mL | +/- 29.541899 |
| 3 | Benzaldehyde | 100-52-7 | RD231129RSRA | 99% | 1,008.0 µg/mL | +/- 29.630084 |
| 4 | Benzoic acid | 65-85-0 | MKCR2694 | 99% | 1,010.0 µg/mL | +/- 29.688874 |
| 5 | Biphenyl | 92-52-4 | MKCS5928 | 99% | 1,008.0 µg/mL | +/- 29.630084 |

**Solvent:** Methylene chloride
**CAS #** 75-09-2
**Purity** 99%

S12509 ↓ S12568 } RC/ 7/24/24

Jess Hoy - Operations Tech I

**Date Mixed:** 18-Jul-2024 **Balance:** 1128360905

**Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397**

# General Certified Reference Material Notes

## Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

## Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

## Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  $k$ is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

## Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

## Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

## CERTIFIED REFERENCE MATERIAL

# Certificate of Analysis

***chromatographic plus***

ilac-MRA A2LA ACCREDITED ISO 17034 Accredited Reference Material Producer Certificate #3222.01

ilac-MRA A2LA ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

**FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.**

*This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.*

**Catalog No. :** 31615 **Lot No.:** A0212955

**Description :** GC/MS Tuning Mixture

GC/MS Tuning Mixture 1,000µg/mL, Methylene Chloride, 1mL/ampul

**Container Size :** 2 mL **Pkg Amt:** > 1 mL

**Expiration Date :** June 30, 2027 **Storage:** 10°C or colder

**Handling:** Contains carcinogen/reproductive toxin. **Ship:** Ambient

CERTIFIED VALUES

| Elution Order | Compound | CAS # | Lot # | Purity | Grav. Conc. (weight/volume) | Expanded Uncertainty * (95% C.L.; K=2) |
|---|---|---|---|---|---|---|
| 1 | Pentachlorophenol | 87-86-5 | RP240517RSR | 99% | 1,004.5 µg/mL | +/- 44.8902 |
| 2 | DFTPP (Decafluorotriphenylphosphine) | 5074-71-5 | Q117-147 | 99% | 1,004.5 µg/mL | +/- 44.8902 |
| 3 | Benzidine | 92-87-5 | S240430RSR | 99% | 1,006.0 µg/mL | +/- 44.9572 |
| 4 | 4,4'-DDT | 50-29-3 | S240530RSR | 97% | 1,000.1 µg/mL | +/- 44.6922 |

* Expanded Uncertainty displayed in same units as Grav. Conc.

**Solvent:** Methylene chloride
**CAS #** 75-09-2
**Purity** 99%

S12577 ↓ S12579 RC 8/2/24

# Quality Confirmation Test

**Column:**
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

**Carrier Gas:**
hydrogen-constant pressure 10 psi.

**Temp. Program:**
75°C (hold 1 min.) to 330°C
@ 20°C/min. (hold 10 min.)

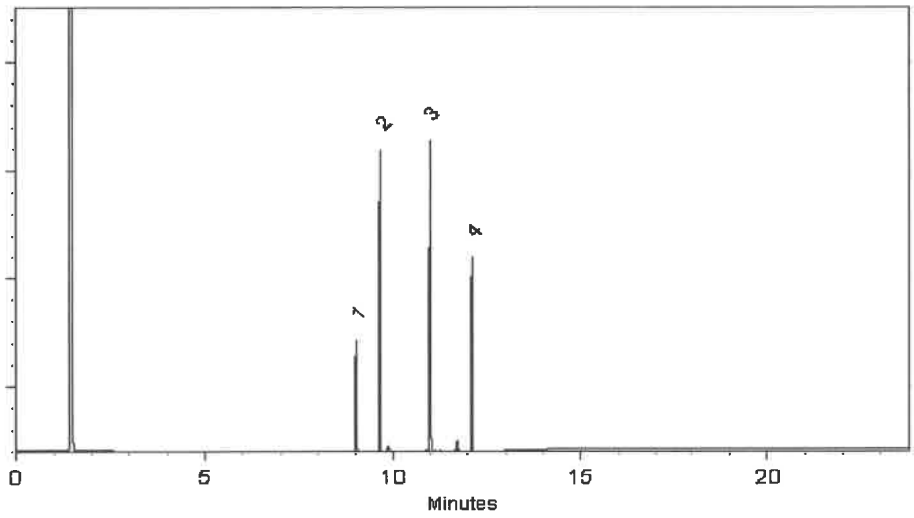
**Inj. Temp:**
250°C

**Det. Temp:**
330°C

**Det. Type:**
FID

**Split Vent:**
10 ml/min.

**Inj. Vol**
1µl




This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Ethan Winiarski - Operations Tech I

**Date Mixed:** 19-Jun-2024 **Balance Serial #** 1128353505

Jennifer Pollino - Operations Tech III - ARM QC

**Date Passed:** 26-Jun-2024

**Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397**

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

**CERTIFIED REFERENCE MATERIAL**

# Certificate of Analysis

***chromatographic plus***

ilac-MRA A2LA ACCREDITED ISO 17034 Accredited Reference Material Producer Certificate #3222.01

ilac-MRA A2LA ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

**FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.**

*This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.*

**Catalog No. :** 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

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

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CERTIFIED REFERENCE MATERIAL

# Certificate of Analysis

*chromatographic plus*

ACCREDITED
ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ACCREDITED
ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

**FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.**

*This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.*

**Catalog No. :** 31850 **Lot No.:** A0219438

**Description :** 8270 MegaMix®

8270 MegaMix® 500-1000 µg/mL, Methylene Chloride, 1mL/ampul

**Container Size :** 2 mL **Pkg Amt:** > 1 mL

**Expiration Date :** September 30, 2025 **Storage:** 0°C or colder

**Handling:** Sonication required. Mix is photosensitive. **Ship:** Ambient

S12963 ↓ S12992 AC 12/17/24

CERTIFIED VALUES

| Elution Order | Compound | CAS # | Lot # | Purity | Grav. Conc. (weight/volume) | Expanded Uncertainty * (95% C.L.; K=2) |
|---|---|---|---|---|---|---|
| 1 | Pyridine | 110-86-1 | SHBP6240 | 99% | 1,008.3 µg/mL | +/- 36.6849 |
| 2 | N-Nitrosodimethylamine | 62-75-9 | S240313RSR | 99% | 1,008.6 µg/mL | +/- 36.6985 |
| 3 | Phenol | 108-95-2 | MKCK1120 | 99% | 1,003.5 µg/mL | +/- 36.5120 |
| 4 | Aniline | 62-53-3 | X22F726 | 99% | 1,002.9 µg/mL | +/- 36.4893 |
| 5 | Bis(2-chloroethyl)ether | 111-44-4 | 002891T24M | 99% | 1,003.0 µg/mL | +/- 36.4938 |
| 6 | 2-Chlorophenol | 95-57-8 | STBJ3909 | 99% | 1,005.6 µg/mL | +/- 36.5894 |
| 7 | 1,3-Dichlorobenzene | 541-73-1 | BCCD5315 | 99% | 1,004.1 µg/mL | +/- 36.5348 |
| 8 | 1,4-Dichlorobenzene | 106-46-7 | MKBS7929V | 99% | 1,002.1 µg/mL | +/- 36.4620 |
| 9 | Benzyl alcohol | 100-51-6 | SHBK5469 | 99% | 1,003.5 µg/mL | +/- 36.5120 |
| 10 | 1,2-Dichlorobenzene | 95-50-1 | SHBL6287 | 99% | 1,005.3 µg/mL | +/- 36.5757 |
| 11 | 2-Methylphenol (o-cresol) | 95-48-7 | SHBN7598 | 99% | 1,008.4 µg/mL | +/- 36.6894 |
| 12 | 2,2'-oxybis(1-chloropropane) | 108-60-1 | 29-MAR-45-5 | 99% | 1,004.6 µg/mL | +/- 36.5530 |
| 13 | 3-Methylphenol (m-cresol) | 108-39-4 | STBJ0710 | 99% | 502.1 µg/mL | +/- 18.2697 |
| 14 | 4-Methylphenol (p-cresol) | 106-44-5 | SHBN3411 | 99% | 503.8 µg/mL | +/- 18.3288 |
| 15 | N-Nitroso-di-n-propylamine | 621-64-7 | N63MG | 99% | 1,006.5 µg/mL | +/- 36.6212 |
| 16 | Hexachloroethane | 67-72-1 | DAXRI | 99% | 1,004.5 µg/mL | +/- 36.5484 |
| 17 | Nitrobenzene | 98-95-3 | 10224044 | 99% | 1,002.5 µg/mL | +/- 36.4757 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 18 | Isophorone | 78-59-1 | MKCR3249 | 99% | 1,003.4 | µg/mL | +/- 36.5075 |
| 19 | 2-Nitrophenol | 88-75-5 | RP230710 | 99% | 1,002.5 | µg/mL | +/- 36.4757 |
| 20 | 2,4-Dimethylphenol | 105-67-9 | XW5GK | 99% | 1,006.5 | µg/mL | +/- 36.6212 |
| 21 | Bis(2-chloroethoxy)methane | 111-91-1 | 15705100 | 99% | 1,006.6 | µg/mL | +/- 36.6257 |
| 22 | 2,4-Dichlorophenol | 120-83-2 | BCCK6969 | 99% | 1,001.5 | µg/mL | +/- 36.4393 |
| 23 | 1,2,4-Trichlorobenzene | 120-82-1 | SHBP5900 | 99% | 1,006.4 | µg/mL | +/- 36.6166 |
| 24 | Naphthalene | 91-20-3 | STBL1057 | 99% | 1,002.1 | µg/mL | +/- 36.4620 |
| 25 | 4-Chloroaniline | 106-47-8 | BCCJ3217 | 99% | 1,004.4 | µg/mL | +/- 36.5439 |
| 26 | Hexachlorobutadiene | 87-68-3 | X05J | 98% | 1,002.5 | µg/mL | +/- 36.4771 |
| 27 | 4-Chloro-3-methylphenol | 59-50-7 | BCCD4461 | 99% | 1,004.5 | µg/mL | +/- 36.5484 |
| 28 | 2-Methylnaphthalene | 91-57-6 | STBL3028 | 99% | 1,000.0 | µg/mL | +/- 36.3847 |
| 29 | 1-Methylnaphthalene | 90-12-0 | 5234.00-8 | 98% | 990.2 | µg/mL | +/- 36.0269 |
| 30 | Hexachlorocyclopentadiene | 77-47-4 | 099063I14L | 98% | 1,001.3 | µg/mL | +/- 36.4325 |
| 31 | 2,4,6-Trichlorophenol | 88-06-2 | STBK8870 | 99% | 1,006.4 | µg/mL | +/- 36.6166 |
| 32 | 2,4,5-Trichlorophenol | 95-95-4 | 3YFRE | 97% | 1,004.6 | µg/mL | +/- 36.5505 |
| 33 | 2-Chloronaphthalene | 91-58-7 | RPN7O | 99% | 1,004.3 | µg/mL | +/- 36.5393 |
| 34 | 2-Nitroaniline | 88-74-4 | RP240715RSR | 99% | 1,004.4 | µg/mL | +/- 36.5439 |
| 35 | 1,4-Dinitrobenzene | 100-25-4 | RP240703RSR | 99% | 1,002.8 | µg/mL | +/- 36.4847 |
| 36 | Acenaphthylene | 208-96-8 | RP241029RSR | 98% | 1,000.0 | µg/mL | +/- 36.3835 |
| 37 | 1,3-Dinitrobenzene | 99-65-0 | TRC3-1075941-2-1 | 99% | 1,006.3 | µg/mL | +/- 36.6121 |
| 38 | Dimethylphthalate | 131-11-3 | 358221L17K | 99% | 1,008.9 | µg/mL | +/- 36.7076 |
| 39 | 2,6-Dinitrotoluene | 606-20-2 | BCCG1833 | 99% | 1,006.6 | µg/mL | +/- 36.6257 |
| 40 | 1,2-Dinitrobenzene | 528-29-0 | RP240701RSR | 99% | 1,002.5 | µg/mL | +/- 36.4757 |
| 41 | Acenaphthene | 83-32-9 | MKCR7169 | 99% | 1,000.0 | µg/mL | +/- 36.3847 |
| 42 | 3-Nitroaniline | 99-09-2 | RP240708RSR | 99% | 1,004.6 | µg/mL | +/- 36.5530 |
| 43 | 2,4-Dinitrophenol | 51-28-5 | D240927RSR | ----% | 1,005.6 | µg/mL | +/- 36.5894 |
| 44 | Dibenzofuran | 132-64-9 | MKCN1772 | 99% | 1,003.5 | µg/mL | +/- 36.5120 |
| 45 | 2,4-Dinitrotoluene | 121-14-2 | 102869V26E | 99% | 1,008.3 | µg/mL | +/- 36.6849 |
| 46 | 4-Nitrophenol | 100-02-7 | 20241029-2-AN | 99% | 1,004.8 | µg/mL | +/- 36.5575 |
| 47 | 2,3,4,6-Tetrachlorophenol | 58-90-2 | PR-34476 | 99% | 1,005.8 | µg/mL | +/- 36.5939 |
| 48 | 2,3,5,6-Tetrachlorophenol | 935-95-5 | RP231219RSR | 99% | 1,006.4 | µg/mL | +/- 36.6166 |
| 49 | Fluorene | 86-73-7 | 10246250 | 98% | 1,000.7 | µg/mL | +/- 36.4102 |
| 50 | 4-Chlorophenyl phenyl ether | 7005-72-3 | MKCT7248 | 99% | 1,004.9 | µg/mL | +/- 36.5621 |
| 51 | Diethylphthalate | 84-66-2 | BCCJ6241 | 99% | 1,003.9 | µg/mL | +/- 36.5257 |
| 52 | 4-Nitroaniline | 100-01-6 | RP230111 | 99% | 1,006.6 | µg/mL | +/- 36.6257 |
| 53 | 4,6-Dinitro-2-methylphenol (Dinitro-o-cresol) | 534-52-1 | S241008RSR | 99% | 1,001.3 | µg/mL | +/- 36.4302 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 54 | Diphenylamine | 122-39-4 | MKCT1512 | 99% | 1,003.0 | µg/mL | +/- 36.4938 |
| 55 | Azobenzene | 103-33-3 | BCCK0887 | 99% | 1,002.4 | µg/mL | +/- 36.4711 |
| 56 | 4-Bromophenyl phenyl ether | 101-55-3 | STBH6361 | 99% | 1,008.8 | µg/mL | +/- 36.7031 |
| 57 | Hexachlorobenzene | 118-74-1 | 15458400 | 99% | 1,005.1 | µg/mL | +/- 36.5712 |
| 58 | Pentachlorophenol | 87-86-5 | RP240517RSR | 99% | 1,005.9 | µg/mL | +/- 36.5984 |
| 59 | Phenanthrene | 85-01-8 | MKCT3391 | 99% | 1,004.9 | µg/mL | +/- 36.5621 |
| 60 | Anthracene | 120-12-7 | 101492T18R | 99% | 1,005.1 | µg/mL | +/- 36.5712 |
| 61 | Carbazole | 86-74-8 | 15276700 | 99% | 1,005.4 | µg/mL | +/- 36.5803 |
| 62 | Di-n-butylphthalate | 84-74-2 | MKCN4337 | 99% | 1,006.3 | µg/mL | +/- 36.6121 |
| 63 | Fluoranthene | 206-44-0 | MKCQ4728 | 99% | 1,003.5 | µg/mL | +/- 36.5120 |
| 64 | Pyrene | 129-00-0 | BCCK2592 | 99% | 1,002.0 | µg/mL | +/- 36.4575 |
| 65 | Benzyl butyl phthalate | 85-68-7 | X12I018 | 99% | 1,007.5 | µg/mL | +/- 36.6576 |
| 66 | Bis(2-ethylhexyl)adipate | 103-23-1 | MKCM1988 | 99% | 1,005.9 | µg/mL | +/- 36.5984 |
| 67 | Benz(a)anthracene | 56-55-3 | I70012022BAA | 99% | 1,005.5 | µg/mL | +/- 36.5848 |
| 68 | Chrysene | 218-01-9 | RP241007RSR | 99% | 1,005.3 | µg/mL | +/- 36.5757 |
| 69 | Bis(2-ethylhexyl)phthalate | 117-81-7 | MKCS8065 | 99% | 1,007.5 | µg/mL | +/- 36.6576 |
| 70 | Di-n-octyl phthalate | 117-84-0 | 15566400 | 99% | 1,002.3 | µg/mL | +/- 36.4666 |
| 71 | Benzo(b)fluoranthene | 205-99-2 | 052013B | 99% | 1,004.1 | µg/mL | +/- 36.5348 |
| 72 | Benzo(k)fluoranthene | 207-08-9 | 012022K | 99% | 1,002.8 | µg/mL | +/- 36.4847 |
| 73 | Benzo(a)pyrene | 50-32-8 | NQLXA | 98% | 1,006.2 | µg/mL | +/- 36.6108 |
| 74 | Indeno(1,2,3-cd)pyrene | 193-39-5 | 12-JKL-118-9 | 97% | 1,001.8 | µg/mL | +/- 36.4490 |
| 75 | Dibenz(a,h)anthracene | 53-70-3 | 2-ASA-59-1 | 99% | 1,003.3 | µg/mL | +/- 36.5029 |
| 76 | Benzo(g,h,i)perylene | 191-24-2 | RP241014RSR | 98% | 1,003.8 | µg/mL | +/- 36.5217 |

* Expanded Uncertainty displayed in same units as Grav. Conc.

**Solvent:** Methylene chloride
**CAS #** 75-09-2
**Purity** 99%

**Tech Tips:**
N-Nitrosodiphenylamine (86-30-6) is prone to breakdown in the injection port and will be converted to Diphenylamine (122-39-4). When comparing the response of Diphenylamine to mixtures manufactured using N-Nitrosodiphenylamine, a difference in response will be observed. The ratio of the MW can be used to calculate the theoretical concentration of the N-Nitrosodiphenylamine.

CPI INTERNATIONAL

5580 Skylane Blvd
Santa Rosa, CA 95403

(707)525-5788
(800)878-7654 Toll Free
(707)545-7901 Fax

Manufacturer's Quality System
Audited & Registered
by TUV USA to ISO 9001:2015

Date Received: _____

# Certificate of Analysis

Rev 0 **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, 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
↓
513061
AC
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 gravimetricly.

# SHIPPING DOCUMENTS

Alliance TECHNICAL GROUP

284 Sheffield Street, Mountainside, NJ 07092
(908) 789-8900 • Fax (908) 789-8922
www.chemtech.net

ALLIANCE PROJECT NO. Q3095
QUOTE NO.
COC Number 2045022 Q3097

## CLIENT INFORMATION

REPORT TO BE SENT TO:
COMPANY: Resolution Consultants
ADDRESS:
CITY STATE: ZIP:
ATTENTION: Eleanor Vivadon
PHONE: FAX:

## CLIENT PROJECT INFORMATION

PROJECT NAME: NWIRP Bethpage
PROJECT NO.: 60731872 LOCATION: Bethpage, NY
PROJECT MANAGER: Eleanor Vivadon
e-mail: Eleanor.Vivadon@aecom.com
PHONE: FAX:

## CLIENT BILLING INFORMATION

BILL TO: Eleanor Vivadon PO#:
ADDRESS: 27 Ellis Place
CITY Ossining STATE: NY ZIP: 10562
ATTENTION: PHONE:

## DATA TURNAROUND INFORMATION

FAX (RUSH) _____ DAYS*
HARDCOPY (DATA PACKAGE): Standard DAYS*
EDD: Standard DAYS*
*TO BE APPROVED BY CHEMTECH
STANDARD HARDCOPY TURNAROUND TIME IS 10 BUSINESS

## DATA DELIVERABLE INFORMATION

❑ Level 1 (Results Only) ❑ Level 4 (QC + Full Raw Data)
❑ Level 2 (Results + QC) ❑ NJ Reduced ❑ US EPA CLP
❑ Level 3 (Results + QC + Raw Data) ❑ NYS ASP A ❑ NYS ASP B
❑ Other _____
❑ EDD FORMAT _____

## ANALYSIS

1: VOCs 8260
2: 1,4 dioxane 8270SIM
3.
4
5
6
7
8
9

| ALLIANCE SAMPLE ID | PROJECT SAMPLE IDENTIFICATION | SAMPLE MATRIX | SAMPLE TYPE COMP | SAMPLE TYPE GRAB | SAMPLE COLLECTION DATE | SAMPLE COLLECTION TIME | # OF BOTTLES | PRESERVATIVES 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | COMMENTS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | A | F | | | | | | | | ← Specify Preservatives A-HCl D-NaOH B-HN03 E-ICE C-H2SO4 F-OTHER |
| 1. | MW3051 - 20250908 | GW | | X | 9/8 | 1505 | 3 | 2 | 1 | | | | | | | | |
| 2. | MW179D - 20250908 | GW | | X | 9/8 | 1538 | 3 | 2 | 1 | | | | | | | | |
| 3. | MW201D - 20250908 | GW | | X | 9/8 | 1600 | 3 | 2 | 1 | | | | | | | | |
| 4. | MW179D1 - 20250908 | GW | | X | 9/8 | 1630 | 3 | 2 | 1 | | | | | | | | |
| 5. | MW203D2 - 20250909 | GW | | X | 9/9 | 1020 | ~~6~~ 3 | ~~6~~ | 3 | | | | | | | | MS/MSD |
| 6. | MW203D1 - 20250909 | GW | | X | 9/9 | 1030 | 3 | 2 | 1 | | | | | | | | |
| 7. | MW179D2 - 20250909 | GW | | X | | 1012 | 3 | 2 | 1 | | | | | | | | |
| 8. | MW201D1 - 20250909 | GW | | X | | 1045 | 3 | 2 | 1 | | | | | | | | |
| 9. | RE122D1 - 20250909 | GW | | X | | 1300 | 3 | 2 | 1 | | | | | | | | |
| 10. | MW202D - 20250909 | GW | | X | ↓ | 1112 | 3 | 2 | 1 | | | | | | | | |

## SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESSION INCLUDING COURIER DELIVERY

| RELINQUISHED BY SAMPLER: | DATE/TIME: | RECEIVED BY: |
|---|---|---|
| 1. Mona Acinck | 09/12/25 1320 | 1. 9-12-25 1320 |
| 2. | | 2. |
| 3. | 9-12-25 1720 | 3. |

Conditions of bottles or coolers at receipt: ❑ COMPLIANT ❑ NON COMPLIANT ❑ COOLER TEMP 3.0 °C
Comments:

Page 1 of 6

CLIENT: ❑ Hand Delivered ❑ Other

Shipment Complete ❑ YES ❑ NO

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www.chemtech.net

ALLIANCE PROJECT NO. Q3095
QUOTE NO. Q3097
COC Number 2045023

## CLIENT INFORMATION

REPORT TO BE SENT TO:
COMPANY: Resolution Consultants
ADDRESS:
CITY STATE: ZIP:
ATTENTION: Eleanor Vivadon
PHONE: FAX:

## CLIENT PROJECT INFORMATION

PROJECT NAME: NWIRP Bethpage
PROJECT NO.: 60731872 LOCATION: Bethpage, NY
PROJECT MANAGER: Eleanor Vivadon
e-mail: Eleanor.Vivadon@aecom.com
PHONE: FAX:

## CLIENT BILLING INFORMATION

BILL TO: Eleanor Vivadon PO#:
ADDRESS: 27 Ellis Place
CITY Ossining STATE: NY ZIP: 10563
ATTENTION: PHONE:

## DATA TURNAROUND INFORMATION

FAX (RUSH) _____ DAYS*
HARDCOPY (DATA PACKAGE): Standard DAYS*
EDD: Standard DAYS*
*TO BE APPROVED BY CHEMTECH
STANDARD HARDCOPY TURNAROUND TIME IS 10 BUSINESS

## DATA DELIVERABLE INFORMATION

☐ Level 1 (Results Only) ☐ Level 4 (QC + Full Raw Data)
☐ Level 2 (Results + QC) ☐ NJ Reduced ☐ US EPA CLP
☐ Level 3 (Results + QC + Raw Data) ☐ NYS ASP A ☐ NYS ASP B ☐ Other _____
☐ EDD FORMAT _____

## ANALYSIS

1: VOCs 8260 2. 1,4 dioxane 8270 SIM 3. 4. 5. 6. 7. 8. 9.

## PRESERVATIVES

A-HCl D-NaOH B-HN03 E-ICE C-H2SO4 F-OTHER

## COMMENTS

← Specify Preservatives

| ALLIANCE SAMPLE ID | PROJECT SAMPLE IDENTIFICATION | SAMPLE MATRIX | SAMPLE TYPE COMP | SAMPLE TYPE GRAB | SAMPLE COLLECTION DATE | SAMPLE COLLECTION TIME | # OF BOTTLES | PRESERVATIVES 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | COMMENTS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | A | F | | | | | | | | |
| 1. | MW178I1-20250909 | GW | | X | 9/9 | 1300 | 3 | 2 | 1 | | | | | | | | |
| 2. | RE123D1-20250909 | GW | | X | 9/9 | 1340 | 3 | 2 | 1 | | | | | | | | |
| 3. | RE123D3-20250909 | GW | | X | 9/9 | 1355 | 3 | 2 | 1 | | | | | | | | |
| 4. | MW305D-20250909 | GW | | X | 9/9 | 1155 | 3 | 2 | 1 | | | | | | | | |
| 5. | DUP01-20250909 | GW | | X | 9/9 | 1235 | 3 | 2 | 1 | | | | | | | | |
| 6. | RE126D2-20250909 | GW | | X | 9/9 | 1442 | 3 | 2 | 1 | | | | | | | | |
| 7. | RE126D3-20250909 | GW | | X | 9/9 | 1540 | 3 | 2 | 1 | | | | | | | | |
| 8. | MW178S-20250910 | GW | | X | 9/10 | 0947 0948 MS | 3 | 2 | 1 | | | | | | | | |
| 9. | RE126D1-20250910 | GW | | X | 9/10 | 1010 | 3 | 2 | 1 | | | | | | | | |
| 10. | MW202D1-20250910 | GW | | X | 9/10 | 1010 | 3 | 2 | 1 | | | | | | | | |

## SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESSION INCLUDING COURIER DELIVERY

| RELINQUISHED BY SAMPLER: | DATE/TIME: | RECEIVED BY: | DATE/TIME: |
|---|---|---|---|
| 1. Nora Acrete | 9/12/25 1320 | 1. | 9-12-25 1320 |
| 2. | | 2. | |
| 3. | 9/12/25 1720 | 3. | |

Conditions of bottles or coolers at receipt: ☐ COMPLIANT ☐ NON COMPLIANT ☐ COOLER TEMP 2-4 °C
Comments:

Page 2 of 6

CLIENT: ☐ Hand Delivered ☐ Other

Shipment Complete ☐ YES ☐ NO

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ALLIANCE PROJECT NO. Q3095
QUOTE NO. Q3097
COC Number 2045024

**CLIENT INFORMATION** (REPORT TO BE SENT TO:)

COMPANY: Resolution Consultants
ADDRESS:
CITY STATE: ZIP:
ATTENTION: Eleanor Vivadon
PHONE: FAX:

**CLIENT PROJECT INFORMATION**

PROJECT NAME: NWIRP Bethpage
PROJECT NO.: 60731872 LOCATION: Bethpage, NY
PROJECT MANAGER: Eleanor Vivadon
e-mail: Eleanor.vivadon@aecom.com
PHONE: FAX:

**CLIENT BILLING INFORMATION**

BILL TO: Eleanor vivadon PO#:
ADDRESS: 27 Ellis Place
CITY Ossining STATE: NY ZIP: 10563
ATTENTION: PHONE:

**DATA TURNAROUND INFORMATION**

FAX (RUSH) _____ DAYS*
HARDCOPY (DATA PACKAGE): Standard DAYS*
EDD: Standard DAYS*
*TO BE APPROVED BY CHEMTECH
STANDARD HARDCOPY TURNAROUND TIME IS 10 BUSINESS

**DATA DELIVERABLE INFORMATION**

☐ Level 1 (Results Only) ☐ Level 4 (QC + Full Raw Data)
☐ Level 2 (Results + QC) ☐ NJ Reduced ☐ US EPA CLP
☐ Level 3 (Results + QC + Raw Data) ☐ NYS ASP A ☐ NYS ASP B
☐ Other _____
☐ EDD FORMAT _____

**ANALYSIS**

1: VOCs @ 260 2: 1,4 dioxane @ 270 SIM 3: 4: 5: 6: 7: 8: 9:

**PRESERVATIVES**

A-HCl D-NaOH
B-HN03 E-ICE
C-H2SO4 F-OTHER

| ALLIANCE SAMPLE ID | PROJECT SAMPLE IDENTIFICATION | SAMPLE MATRIX | SAMPLE TYPE COMP | SAMPLE TYPE GRAB | SAMPLE COLLECTION DATE | SAMPLE COLLECTION TIME | # OF BOTTLES | A 1 | F 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | COMMENTS ← Specify Preservatives |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1. | RE104D2-20250910 | GW | | X | 9/10 | 1045 | 3 | 2 | 1 | | | | | | | | |
| 2. | MW178I-20250910 | GW | | X | 9/10 | 1052 | 3 | 2 | 1 | | | | | | | | |
| 3. | DUP02-20250910 | GW | | X | 9/10 | 1315 | 3 | 2 | 1 | | | | | | | | |
| 4. | DUP03-20250910 | GW | | X | 9/10 | 1035 | 3 | 2 | 1 | | | | | | | | |
| 5. | ~~RE-H~~ MA RE117D1-20250910 | GW | | X | 9/10 | 1300 | 3 | 2 | 1 | | | | | | | | |
| 6. | RE104D3-20250910 | GW | | X | 9/10 | 1305 | 3 | 2 | 1 | | | | | | | | |
| 7. | RE122D2-20250910 | GW | | X | 9/10 | 1315 | 3 | 2 | 1 | | | | | | | | |
| 8. | RE104D1-20250910 | GW | | X | 9/10 | 1115 | 3 | 2 | 1 | | | | | | | | |
| 9. | TT180D-20250911 | GW | | X | 9/11 | 0940 | 3 | 2 | 1 | | | | | | | | |
| 10. | RE122D3-20250911 | GW | | X | 9/11 | 1010 | 3 | 2 | 1 | | | | | | | | |

**SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESSION INCLUDING COURIER DELIVERY**

| RELINQUISHED BY SAMPLER: | DATE/TIME: | RECEIVED BY: |
|---|---|---|
| 1. Mona Achek | 9/12/25 1320 | 1. 9-12-25 1320 |
| RELINQUISHED BY SAMPLER: | DATE/TIME: | RECEIVED BY: |
| 2. | | 2. |
| RELINQUISHED BY SAMPLER: | DATE/TIME: 1720 | RECEIVED BY: |
| 3. 9-12-25 | | 3. |

Conditions of bottles or coolers at receipt: ☐ COMPLIANT ☐ NON COMPLIANT ☐ COOLER TEMP 2.1 °C
Comments:

Page 3 of 6

CLIENT: ☐ Hand Delivered ☐ Other

Shipment Complete ☐ YES ☐ NO

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www.chemtech.net

ALLIANCE PROJECT NO. Q3095
QUOTE NO. Q3097
COC Number 2045026

## CLIENT INFORMATION

REPORT TO BE SENT TO:
COMPANY: Resolution Consultants
ADDRESS:
CITY STATE: ZIP:
ATTENTION: Eleanor Vivadou
PHONE: FAX:

## CLIENT PROJECT INFORMATION

PROJECT NAME: NWIRP Bethpage
PROJECT NO.: 60731872 LOCATION: Bethpage, NY
PROJECT MANAGER: Eleanor Vivadou
e-mail: Eleanor.Vivadou@arcom.com
PHONE: FAX:

## CLIENT BILLING INFORMATION

BILL TO: Eleanor Vivadou PO#:
ADDRESS: 27 Ellis place
CITY Ossining STATE: NY ZIP: 10563
ATTENTION: PHONE:

## DATA TURNAROUND INFORMATION

FAX (RUSH) _____ DAYS*
HARDCOPY (DATA PACKAGE): Standard DAYS*
EDD: Standard DAYS*
*TO BE APPROVED BY CHEMTECH
STANDARD HARDCOPY TURNAROUND TIME IS 10 BUSINESS

## DATA DELIVERABLE INFORMATION

☐ Level 1 (Results Only) ☐ Level 4 (QC + Full Raw Data)
☐ Level 2 (Results + QC) ☐ NJ Reduced ☐ US EPA CLP
☐ Level 3 (Results + QC + Raw Data) ☐ NYS ASP A ☐ NYS ASP B
☐ Other _____
☐ EDD FORMAT _____

## ANALYSIS

1: VOCs 8260 2: 1,4 dioxane 8270SIM 3: 4: 5: 6: 7: 8: 9:

## PRESERVATIVES

## COMMENTS

← Specify Preservatives
A-HCl D-NaOH
B-HN03 E-ICE
C-H2SO4 F-OTHER

| ALLIANCE SAMPLE ID | PROJECT SAMPLE IDENTIFICATION | SAMPLE MATRIX | SAMPLE TYPE COMP | SAMPLE TYPE GRAB | SAMPLE COLLECTION DATE | SAMPLE COLLECTION TIME | # OF BOTTLES | PRES 1 | PRES 2 | PRES 3 | PRES 4 | PRES 5 | PRES 6 | PRES 7 | PRES 8 | PRES 9 | COMMENTS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | A | F | | | | | | | | |
| 1. | RE103D2-20250911 | GW | | X | 9/11 | 0957 | 9 | 6 | 3 | | | | | | | | MS/MSD |
| 2. | RE125D1-20250911 | GW | | X | 9/11 | 1055 | 3 | 2 | 1 | | | | | | | | |
| 3. | RE125D3-20250911 | GW | | X | 9/11 | 1125 | 3 | 2 | 1 | | | | | | | | |
| 4. | RE103D3-20250911 | GW | | X | 9/11 | 1112 | 3 | 2 | 1 | | | | | | | | |
| 5. | RE108D2-20250911 | GW | | X | 9/11 | 1155 MK | 3 | 2 | 1 | | | | | | | | |
| 6. | RE125D2-20250911 | GW | | X | 9/11 | 1245 | 3 | 2 | 1 | | | | | | | | |
| 7. | RE108D1-20250911 | GW | | X | 9/11 | 1255 | 3 | 2 | 1 | | | | | | | | |
| 8. | RE120D3-20250911 | GW | | X | 9/11 | 1420 | 3 | 2 | 1 | | | | | | | | |
| 9. | RE105D2-20250911 | GW | | X | 9/11 | 1535 | 3 | 2 | 1 | | | | | | | | |
| 10. | DUP04-20250911 | GW | | X | 9/11 | 1635 | 3 | 2 | 1 | | | | | | | | |

## SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESSION INCLUDING COURIER DELIVERY

| RELINQUISHED BY SAMPLER: | DATE/TIME: | RECEIVED BY: |
|---|---|---|
| 1. Mona Achek | 09/12/25 1320 | 1. 9.12.25 1320 |
| RELINQUISHED BY SAMPLER: | DATE/TIME: | RECEIVED BY: |
| 2. | | 2. |
| RELINQUISHED BY SAMPLER: | DATE/TIME: 1720 | RECEIVED BY: |
| 3. | 9.12.25 | 3. |

Conditions of bottles or coolers at receipt: ☐ COMPLIANT ☐ NON COMPLIANT ☐ COOLER TEMP 2.0 °C
Comments:

Page 4 of 6

CLIENT: ☐ Hand Delivered ☐ Other

Shipment Complete ☐ YES ☐ NO

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www.chemtech.net

ALLIANCE PROJECT NO. Q3095
QUOTE NO. Q3097
COC Number 2045025

## CLIENT INFORMATION

REPORT TO BE SENT TO:
COMPANY: Resolution Consultants
ADDRESS:
CITY STATE: ZIP:
ATTENTION: Eleanor Vivaldo
PHONE: FAX:

## CLIENT PROJECT INFORMATION

PROJECT NAME: NWBP Bethpage
PROJECT NO.: 60731872 LOCATION: Bethpage, NY
PROJECT MANAGER: Eleanor Vivaldo
e-mail: eleanor.vivaldo@aecom.com
PHONE: FAX:

## CLIENT BILLING INFORMATION

BILL TO: Eleanor Vivaldo PO#:
ADDRESS: 27 Ellis Place
CITY Ossining STATE: NY ZIP: 10563
ATTENTION: PHONE:

## DATA TURNAROUND INFORMATION

FAX (RUSH) _____ DAYS*
HARDCOPY (DATA PACKAGE): Standard DAYS*
EDD: Standard DAYS*
*TO BE APPROVED BY CHEMTECH
STANDARD HARDCOPY TURNAROUND TIME IS 10 BUSINESS

## DATA DELIVERABLE INFORMATION

- ☐ Level 1 (Results Only)
- ☐ Level 2 (Results + QC)
- ☐ Level 3 (Results + QC + Raw Data)
- ☐ Level 4 (QC + Full Raw Data)
- ☐ NJ Reduced ☐ US EPA CLP
- ☐ NYS ASP A ☐ NYS ASP B
- ☐ Other _____
- ☐ EDD FORMAT _____

## ANALYSIS

1: VOCs 8260
2: 1,4 dioxane 8270SIM
3.
4
5
6
7
8
9

| ALLIANCE SAMPLE ID | PROJECT SAMPLE IDENTIFICATION | SAMPLE MATRIX | SAMPLE TYPE COMP | SAMPLE TYPE GRAB | SAMPLE COLLECTION DATE | SAMPLE COLLECTION TIME | # OF BOTTLES | PRESERVATIVES 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | COMMENTS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | A | F | | | | | | | | ← Specify Preservatives A-HCl D-NaOH B-HN03 E-ICE C-H2SO4 F-OTHER |
| 1. | DUP05-20250911 | GW | | X | 9/11 | 1105 | 3 | 2 | 1 | | | | | | | | |
| 2. | RE105D2-20250911 | GW | | X | 9/11 | 1625 | 3 | 2 | 1 | | | | | | | | |
| 3. | RE117D2-20250911 | GW | | X | 9/11 | 1570 | 3 | 2 | 1 | | | | | | | | |
| 4. | TB01-20250911 | Aq | | | 9/11 | N/A | 2 | 2 | | | | | | | | | QA/QC TBs |
| 5. | TB02-20250911 | Aq | | | 9/11 | N/A | 2 | 2 | | | | | | | | | QA/QC TBs |
| 6. | TB03-20250911 | Aq | | | 9/11 | N/A | 2 | 2 | | | | | | | | | QA/QC TBs |
| 7. | TB04-20250911 | Aq | | | 9/11 | N/A | 2 | 2 | | | | | | | | | QA/QC TBs |
| 8. | TB05-20250912 | Aq | | | 9/12 | N/A | 2 | 2 | | | | | | | | | |
| 9. | RE120D1-20250912 | GW | | X | 9/12 | 0952 | 3 | 2 | 1 | | | | | | | | |
| 10. | DUP06-20250912 | GW | | X | 9/12 | 1140 | 3 | 2 | 1 | | | | | | | | |

## SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESSION INCLUDING COURIER DELIVERY

| RELINQUISHED BY SAMPLER: | DATE/TIME: | RECEIVED BY: |
|---|---|---|
| 1. Mona Achek | 9/12/25 1320 | 1. 1320 9-12-25 |
| 2. | DATE/TIME: | 2. |
| 3. | DATE/TIME: 1720 9-12-25 | 3. |

Conditions of bottles or coolers at receipt: ☐ COMPLIANT ☐ NON COMPLIANT ☐ COOLER TEMP 3.1 °C
Comments:

Page 5 of 6

CLIENT: ☐ Hand Delivered ☐ Other

Shipment Complete ☐ YES ☐ NO

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www.chemtech.net

ALLIANCE PROJECT NO. Q3095
QUOTE NO. Q3097
COC Number 2045027

## CLIENT INFORMATION

REPORT TO BE SENT TO:
COMPANY: Resolution Consultants
ADDRESS:
CITY: STATE: ZIP:
ATTENTION: Eleanor Vivadon
PHONE: FAX:

## CLIENT PROJECT INFORMATION

PROJECT NAME: NWIRP Bethpage
PROJECT NO.: 60731872 LOCATION: Bethpage
PROJECT MANAGER: Eleanor Vivadon
e-mail: eleanor.vivadon@aecom.com
PHONE: FAX:

## CLIENT BILLING INFORMATION

BILL TO: Eleanor Vivadon PO#:
ADDRESS: 27 Ellis Place
CITY Ossining STATE: NY ZIP: 10562
ATTENTION: PHONE:

## DATA TURNAROUND INFORMATION

FAX (RUSH) _____ DAYS*
HARDCOPY (DATA PACKAGE): Standard DAYS*
EDD: Standard DAYS*
*TO BE APPROVED BY CHEMTECH
STANDARD HARDCOPY TURNAROUND TIME IS 10 BUSINESS

## DATA DELIVERABLE INFORMATION

- ☐ Level 1 (Results Only)
- ☐ Level 2 (Results + QC)
- ☐ Level 3 (Results + QC + Raw Data)
- ☐ Level 4 (QC + Full Raw Data)
- ☐ NJ Reduced
- ☐ NYS ASP A
- ☐ NYS ASP B
- ☐ US EPA CLP
- ☐ Other _____
- ☐ EDD FORMAT _____

## ANALYSIS

1: VOCs 8260
2: 1,4-dioxane 8270SIM
3.
4.
5.
6.
7.
8.
9.

| ALLIANCE SAMPLE ID | PROJECT SAMPLE IDENTIFICATION | SAMPLE MATRIX | SAMPLE TYPE COMP | SAMPLE TYPE GRAB | SAMPLE COLLECTION DATE | SAMPLE COLLECTION TIME | # OF BOTTLES | PRESERVATIVES 1 (A) | PRESERVATIVES 2 (F) | 3 | 4 | 5 | 6 | 7 | 8 | 9 | COMMENTS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1. | RE120D2-20250912 | GW | | X | 9/12 | ~~0954~~ 0955 | 3 | 2 | 1 | | | | | | | | |
| 2. | RE134D1-20250912 | GW | | X | 9/12 | 0955 | 3 | 2 | 1 | | | | | | | | |
| 3. | RE134D4-20250912 | GW | | X | 9/12 | 1010 | 3 | 2 | 1 | | | | | | | | |
| 4. | RE134D2-20250912 | GW | | X | 9/12 | 0950 | 3 | 2 | 1 | | | | | | | | |
| 5. | RE134D3-20250912 | GW | | X | 9/12 | 1030 | 3 | 2 | 1 | | | | | | | | |
| 6. | EB01-20250912 | ~~GW~~ AQ | | X | 9/12 | 0822 | 3 | 2 | 1 | | | | | | | | Equipment Blank |
| 7. | | | | | | | | | | | | | | | | | |
| 8. | | | | | | | | | | | | | | | | | |
| 9. | | | | | | | | | | | | | | | | | |
| 10. | | | | | | | | | | | | | | | | | |

← Specify Preservatives
A-HCl D-NaOH
B-HNO3 E-ICE
C-H2SO4 F-OTHER

## SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESSION INCLUDING COURIER DELIVERY

| RELINQUISHED BY SAMPLER: | DATE/TIME: | RECEIVED BY: |
|---|---|---|
| 1. Mario Acick | 9/12-25 1320 | 1. 1320 9-12-25 |
| 2. | DATE/TIME: | 2. |
| 3. | DATE/TIME: 1720 9-12-25 | 3. |

Conditions of bottles or coolers at receipt: ☐ COMPLIANT ☐ NON COMPLIANT ☐ COOLER TEMP 3.1 °C
Comments:

Page 6 of 6

CLIENT: ☐ Hand Delivered ☐ Other

Shipment Complete ☐ YES ☐ NO

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284 Sheffield Street, Mountainside NJ 07092 (908)-789-8900 Fax : 908 789 8922

# 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 |

QA Control Code: A2070148

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

# LOGIN REPORT/SAMPLE TRANSFER

**Order ID :** Q3095 AECO15
**Client Name :** AECOM Technical Service
**Client Contact :** Eleanor Vivadou
**Invoice Name :** AECOM Technical Service
**Invoice Contact :** Eleanor Vivadou

**Order Date :** 9/12/2025 12:38:00 PM
**Project Name :** NAVFAC NWIRP Bethpag
**Receive DateTime :** 9/12/2025 5:20:00 PM
**Purchase Order :**

**Project Mgr :** Yazmeen
**Report Type :** Results Only
**EDD Type :** EQUIS
**Hard Copy Date :**
**Date Signoff :** 9/15/2025 10:00:04 AM

| LAB ID | CLIENT ID | MATRIX | SAMPLE DATE | SAMPLE TIME | TEST | TEST GROUP | METHOD | FAX DATE | DUE DATES |
|---|---|---|---|---|---|---|---|---|---|
| Q3095-01 | MW~~30S1~~-20250908 305I | Water | 09/08/2025 | 15:05 | | | | | |
| | | | | | VOCMS Group1 | | 8260-Low | | 10 Bus. Days |
| Q3095-02 | MW179D-20250908 | Water | 09/08/2025 | 15:38 | | | | | |
| | | | | | VOCMS Group1 | | 8260-Low | | 10 Bus. Days |
| Q3095-03 | MW201D-20250908 | Water | 09/08/2025 | 16:00 | | | | | |
| | | | | | VOCMS Group1 | | 8260-Low | | 10 Bus. Days |
| Q3095-04 | MW179D1-20250908 | Water | 09/08/2025 | 16:30 | | | | | |
| | | | | | VOCMS Group1 | | 8260-Low | | 10 Bus. Days |
| Q3095-05 | MW203D2-20250909 | Water | 09/09/2025 | 10:20 | | | | | |
| | | | | | VOCMS Group1 | | 8260-Low | | 10 Bus. Days |
| Q3095-06 | Q3095-05MS | Water | 09/09/2025 | 10:20 | | | | | |
| | | | | | VOCMS Group1 | | 8260-Low | | 10 Bus. Days |
| Q3095-07 | Q3095-05MSD | Water | 09/09/2025 | 10:20 | | | | | |
| | | | | | VOCMS Group1 | | 8260-Low | | 10 Bus. Days |
| Q3095-08 | MW203D1-20250909 | Water | 09/09/2025 | 10:30 | | | | | |

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

# LOGIN REPORT/SAMPLE TRANSFER

**Order ID :** Q3095 AECO15
**Client Name :** AECOM Technical Service
**Client Contact :** Eleanor Vivadou
**Invoice Name :** AECOM Technical Service
**Invoice Contact :** Eleanor Vivadou

**Order Date :** 9/12/2025 12:38:00 PM
**Project Name :** NAVFAC NWIRP Bethpag
**Receive DateTime :** 9/12/2025 5:20:00 PM
**Purchase Order :**

**Project Mgr :** Yazmeen
**Report Type :** Results Only
**EDD Type :** EQUIS
**Hard Copy Date :**
**Date Signoff :** 9/15/2025 10:00:04 AM

| LAB ID | CLIENT ID | MATRIX | SAMPLE DATE | SAMPLE TIME | TEST | TEST GROUP | METHOD | FAX DATE | DUE DATES |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | VOCMS Group1 | | 8260-Low | | 10 Bus. Days |
| Q3095-09 | MW179D2-20250909 | Water | 09/09/2025 | 10:12 | | | | | |
| | | | | | VOCMS Group1 | | 8260-Low | | 10 Bus. Days |
| Q3095-10 | MW201D1-20250909 | Water | 09/09/2025 | 10:45 | | | | | |
| | | | | | VOCMS Group1 | | 8260-Low | | 10 Bus. Days |
| Q3095-11 | RE122D1-20250909 | Water | 09/09/2025 | 13:00 | | | | | |
| | | | | | VOCMS Group1 | | 8260-Low | | 10 Bus. Days |
| Q3095-12 | MW202D-20250909 | Water | 09/09/2025 | 11:12 | | | | | |
| | | | | | VOCMS Group1 | | 8260-Low | | 10 Bus. Days |
| Q3095-13 | MW178I1-20250909 | Water | 09/09/2025 | 13:00 | | | | | |
| | | | | | VOCMS Group1 | | 8260-Low | | 10 Bus. Days |
| Q3095-14 | RE123D1-20250909 | Water | 09/09/2025 | 13:40 | | | | | |
| | | | | | VOCMS Group1 | | 8260-Low | | 10 Bus. Days |
| Q3095-15 | RE123D3-20250909 | Water | 09/09/2025 | 13:55 | | | | | |
| | | | | | VOCMS Group1 | | 8260-Low | | 10 Bus. Days |

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

# LOGIN REPORT/SAMPLE TRANSFER

**Order ID :** Q3095 AECO15
**Client Name :** AECOM Technical Service
**Client Contact :** Eleanor Vivadou
**Invoice Name :** AECOM Technical Service
**Invoice Contact :** Eleanor Vivadou

**Order Date :** 9/12/2025 12:38:00 PM
**Project Name :** NAVFAC NWIRP Bethpag
**Receive DateTime :** 9/12/2025 5:20:00 PM
**Purchase Order :**

**Project Mgr :** Yazmeen
**Report Type :** Results Only
**EDD Type :** EQUIS
**Hard Copy Date :**
**Date Signoff :** 9/15/2025 10:00:04 AM

| LAB ID | CLIENT ID | MATRIX | SAMPLE DATE | SAMPLE TIME | TEST | TEST GROUP | METHOD | FAX DATE | DUE DATES |
|---|---|---|---|---|---|---|---|---|---|
| Q3095-16 | MW305D-20250909 | Water | 09/09/2025 | 11:55 | | | | | |
| | | | | | VOCMS Group1 | | 8260-Low | | 10 Bus. Days |
| Q3095-17 | DUP01-20250909 | Water | 09/09/2025 | 12:35 | | | | | |
| | | | | | VOCMS Group1 | | 8260-Low | | 10 Bus. Days |
| Q3095-18 | RE126D2-20250909 | Water | 09/09/2025 | 14:42 | | | | | |
| | | | | | VOCMS Group1 | | 8260-Low | | 10 Bus. Days |
| Q3095-19 | RE126D3-20250909 | Water | 09/09/2025 | 15:40 | | | | | |
| | | | | | VOCMS Group1 | | 8260-Low | | 10 Bus. Days |
| Q3095-20 | MW178S-20250910 | Water | 09/10/2025 | 09:47 | | | | | |
| | | | | | VOCMS Group1 | | 8260-Low | | 10 Bus. Days |
| Q3095-21 | RE126D1-20250910 | Water | 09/10/2025 | 10:10 | | | | | |
| | | | | | VOCMS Group1 | | 8260-Low | | 10 Bus. Days |
| Q3095-22 | MW202D1-20250910 | Water | 09/10/2025 | 10:10 | | | | | |
| | | | | | VOCMS Group1 | | 8260-Low | | 10 Bus. Days |
| Q3095-23 | RE104D2-20250910 | Water | 09/10/2025 | 10:45 | | | | | |

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

# LOGIN REPORT/SAMPLE TRANSFER

**Order ID :** Q3095 AECO15
**Client Name :** AECOM Technical Services
**Client Contact :** Eleanor Vivadou
**Invoice Name :** AECOM Technical Services
**Invoice Contact :** Eleanor Vivadou

**Order Date :** 9/12/2025 12:38:00 PM
**Project Name :** NAVFAC NWIRP Bethpage
**Receive DateTime :** 9/12/2025 5:20:00 PM
**Purchase Order :**

**Project Mgr :** Yazmeen
**Report Type :** Results Only
**EDD Type :** EQUIS
**Hard Copy Date :**
**Date Signoff :** 9/15/2025 10:00:04 AM

| LAB ID | CLIENT ID | MATRIX | SAMPLE DATE | SAMPLE TIME | TEST | TEST GROUP | METHOD | FAX DATE | DUE DATES |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | VOCMS Group1 | | 8260-Low | | 10 Bus. Days |
| Q3095-24 | MW178I-20250910 | Water | 09/10/2025 | 10:52 | | | | | |
| | | | | | VOCMS Group1 | | 8260-Low | | 10 Bus. Days |
| Q3095-25 | DUP02-20250910 | Water | 09/10/2025 | 13:15 | | | | | |
| | | | | | VOCMS Group1 | | 8260-Low | | 10 Bus. Days |
| Q3095-26 | DUP0-20250910 | Water | 09/10/2025 | 10:35 | | | | | |
| | | | | | VOCMS Group1 | | 8260-Low | | 10 Bus. Days |
| Q3095-27 | RE117D1-20250910 | Water | 09/10/2025 | 13:00 | | | | | |
| | | | | | VOCMS Group1 | | 8260-Low | | 10 Bus. Days |
| Q3095-28 | RE104D3-20250910 | Water | 09/10/2025 | 13:05 | | | | | |
| | | | | | VOCMS Group1 | | 8260-Low | | 10 Bus. Days |
| Q3095-29 | RE122D2-20250910 | Water | 09/10/2025 | 13:15 | | | | | |
| | | | | | VOCMS Group1 | | 8260-Low | | 10 Bus. Days |
| Q3095-30 | RE104D1-20250910 | Water | 09/10/2025 | 11:15 | | | | | |
| | | | | | VOCMS Group1 | | 8260-Low | | 10 Bus. Days |

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

# LOGIN REPORT/SAMPLE TRANSFER

**Order ID :** Q3095 AECO15
**Client Name :** AECOM Technical Service
**Client Contact :** Eleanor Vivadou
**Invoice Name :** AECOM Technical Service
**Invoice Contact :** Eleanor Vivadou

**Order Date :** 9/12/2025 12:38:00 PM
**Project Name :** NAVFAC NWIRP Bethpage
**Receive DateTime :** 9/12/2025 5:20:00 PM
**Purchase Order :**

**Project Mgr :** Yazmeen
**Report Type :** Results Only
**EDD Type :** EQUIS
**Hard Copy Date :**
**Date Signoff :** 9/15/2025 10:00:04 AM

| LAB ID | CLIENT ID | MATRIX | SAMPLE DATE | SAMPLE TIME | TEST | TEST GROUP | METHOD | FAX DATE | DUE DATES |
|---|---|---|---|---|---|---|---|---|---|
| Q3095-31 | TT180D-20250911 | Water | 09/11/2025 | 09:40 | | | | | |
| | | | | | VOCMS Group1 | | 8260-Low | | 10 Bus. Days |
| Q3095-32 | RE122D3-20250911 | Water | 09/11/2025 | 10:10 | | | | | |
| | | | | | VOCMS Group1 | | 8260-Low | | 10 Bus. Days |
| Q3095-33 | TB01-20250911 | Water | 09/11/2025 | 00:00 | | | | | |
| | | | | | VOCMS Group1 | | 8260-Low | | 10 Bus. Days |
| Q3095-34 | TB02-20250911 | Water | 09/11/2025 | 00:00 | | | | | |
| | | | | | VOCMS Group1 | | 8260-Low | | 10 Bus. Days |

**Relinguished By :**
**Date / Time :** 9/15/25 1250

**Received By :**
**Date / Time :** 09/15/25 12:50 of 44
**Storage Area :** VOA Refridgerator Room

Quantitation Report (Not Reviewed)

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN091125\
Data File : BN037692.D
Acq On : 11 Sep 2025 10:32
Operator : RC/JU
Sample : SSTDICC0.2
Misc :
ALS Vial : 4 Sample Multiplier: 1

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

Quant Time: Sep 11 14:05:36 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN091125.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Sep 11 14:02:44 2025
Response via : Initial Calibration

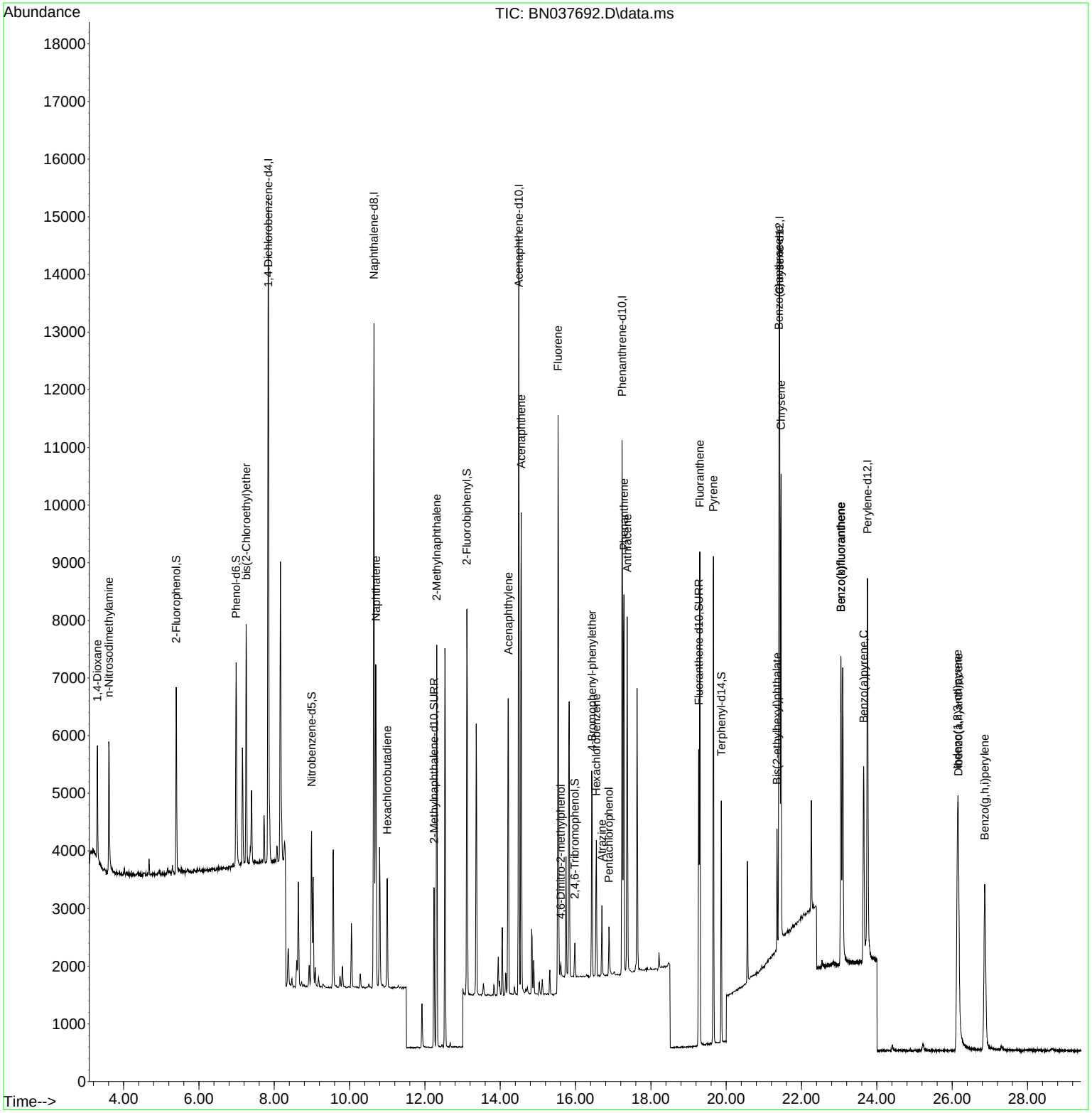
| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| Internal Standards | | | | | | | |
| 1) 1,4-Dichlorobenzene-d4 | 7.840 | 152 | 5547 | 0.400 | ng | | 0.00 |
| 7) Naphthalene-d8 | 10.648 | 136 | 15018 | 0.400 | ng | | 0.00 |
| 13) Acenaphthene-d10 | 14.494 | 164 | 6952 | 0.400 | ng | | 0.00 |
| 19) Phenanthrene-d10 | 17.235 | 188 | 12385 | 0.400 | ng | | 0.00 |
| 29) Chrysene-d12 | 21.420 | 240 | 9324 | 0.400 | ng | | 0.00 |
| 35) Perylene-d12 | 23.753 | 264 | 9364 | 0.400 | ng | | 0.00 |
| System Monitoring Compounds | | | | | | | |
| 4) 2-Fluorophenol | 5.399 | 112 | 2533 | 0.199 | ng | | 0.00 |
| 5) Phenol-d6 | 6.988 | 99 | 3308 | 0.200 | ng | | 0.00 |
| 8) Nitrobenzene-d5 | 8.993 | 82 | 2098 | 0.191 | ng | | 0.00 |
| 11) 2-Methylnaphthalene-d10 | 12.243 | 152 | 3732 | 0.188 | ng | | 0.00 |
| 14) 2,4,6-Tribromophenol | 15.982 | 330 | 340 | 0.188 | ng | | 0.00 |
| 15) 2-Fluorobiphenyl | 13.115 | 172 | 5791 | 0.199 | ng | | 0.00 |
| 27) Fluoranthene-d10 | 19.271 | 212 | 5492 | 0.177 | ng | | 0.00 |
| 31) Terphenyl-d14 | 19.870 | 244 | 3884 | 0.205 | ng | | 0.00 |
| Target Compounds | | | | | | | Qvalue |
| 2) 1,4-Dioxane | 3.304 | 88 | 1189 | 0.206 | ng | | 99 |
| 3) n-Nitrosodimethylamine | 3.608 | 42 | 1470 | 0.195 | ng | # | 93 |
| 6) bis(2-Chloroethyl)ether | 7.255 | 93 | 2982 | 0.202 | ng | | 100 |
| 9) Naphthalene | 10.701 | 128 | 8051 | 0.196 | ng | | 99 |
| 10) Hexachlorobutadiene | 11.000 | 225 | 1472 | 0.198 | ng | # | 100 |
| 12) 2-Methylnaphthalene | 12.314 | 142 | 4889 | 0.193 | ng | | 100 |
| 16) Acenaphthylene | 14.216 | 152 | 6105 | 0.191 | ng | | 98 |
| 17) Acenaphthene | 14.559 | 154 | 4168 | 0.193 | ng | | 98 |
| 18) Fluorene | 15.535 | 166 | 4875 | 0.187 | ng | | 97 |
| 20) 4,6-Dinitro-2-methylph... | 15.609 | 198 | 201 | 0.175 | ng | # | 58 |
| 21) 4-Bromophenyl-phenylether | 16.441 | 248 | 1560 | 0.193 | ng | | 97 |
| 22) Hexachlorobenzene | 16.553 | 284 | 1906 | 0.205 | ng | | 99 |
| 23) Atrazine | 16.702 | 200 | 932 | 0.181 | ng | | 96 |
| 24) Pentachlorophenol | 16.888 | 266 | 461 | 0.171 | ng | | 98 |
| 25) Phenanthrene | 17.285 | 178 | 7526 | 0.193 | ng | | 98 |
| 26) Anthracene | 17.372 | 178 | 6375 | 0.185 | ng | | 99 |
| 28) Fluoranthene | 19.299 | 202 | 7577 | 0.177 | ng | | 100 |
| 30) Pyrene | 19.661 | 202 | 7543 | 0.207 | ng | | 99 |
| 32) Benzo(a)anthracene | 21.402 | 228 | 6270 | 0.193 | ng | | 99 |
| 33) Chrysene | 21.456 | 228 | 6953 | 0.199 | ng | | 98 |
| 34) Bis(2-ethylhexyl)phtha... | 21.348 | 149 | 2049 | 0.213 | ng | # | 97 |
| 36) Indeno(1,2,3-cd)pyrene | 26.142 | 276 | 6982 | 0.177 | ng | | 99 |
| 37) Benzo(b)fluoranthene | 23.046 | 252 | 6907 | 0.187 | ng | # | 93 |
| 38) Benzo(k)fluoranthene | 23.046 | 252 | 6907 | 0.184 | ng | | 94 |
| 39) Benzo(a)pyrene | 23.651 | 252 | 5489 | 0.186 | ng | # | 92 |
| 40) Dibenzo(a,h)anthracene | 26.165 | 278 | 5503 | 0.175 | ng | # | 90 |
| 41) Benzo(g,h,i)perylene | 26.864 | 276 | 6566 | 0.186 | ng | | 95 |

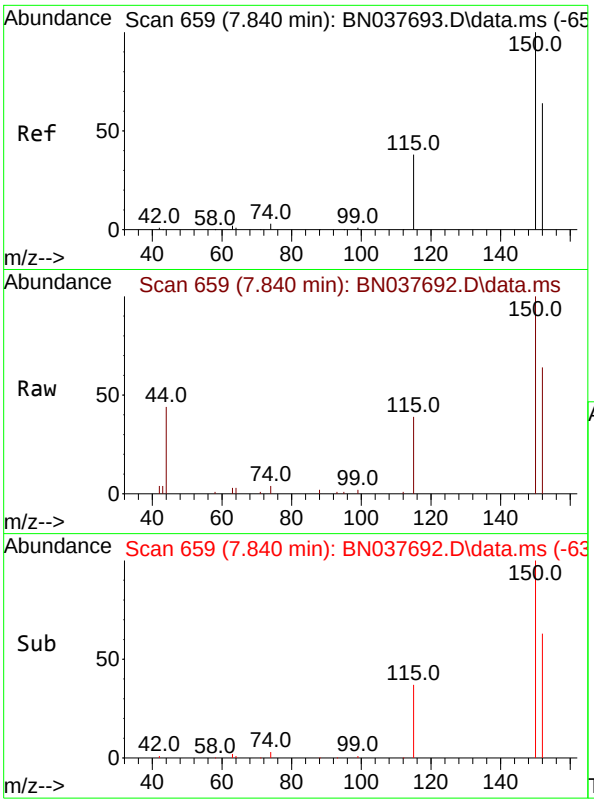
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN091125\
Data File : BN037692.D
Acq On : 11 Sep 2025 10:32
Operator : RC/JU
Sample : SSTDICC0.2
Misc :
ALS Vial : 4 Sample Multiplier: 1

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

Quant Time: Sep 11 14:05:36 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN091125.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Sep 11 14:02:44 2025
Response via : Initial Calibration



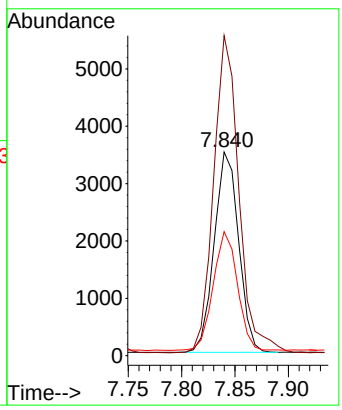


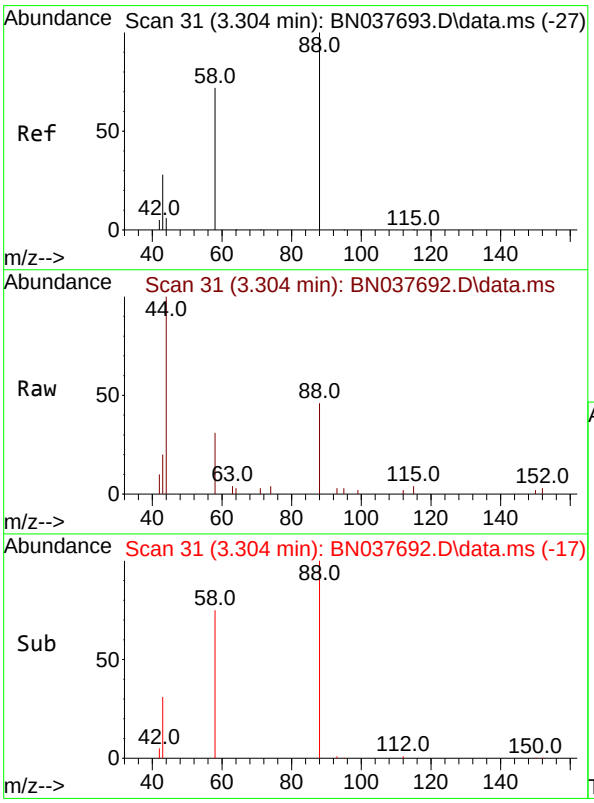

#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.840 min Scan# 6
Delta R.T. -0.000 min
Lab File: BN037692.D
Acq: 11 Sep 2025 10:32

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

Tgt Ion:152 Resp: 5547

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 150 | 157.2 | 124.5 | 186.7 |
| 115 | 60.9 | 49.2 | 73.8 |

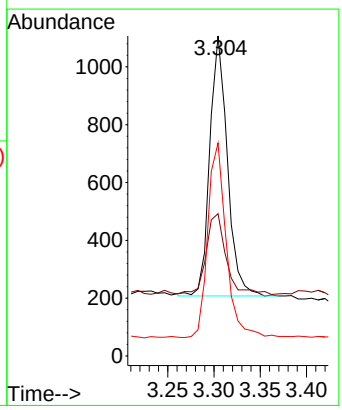


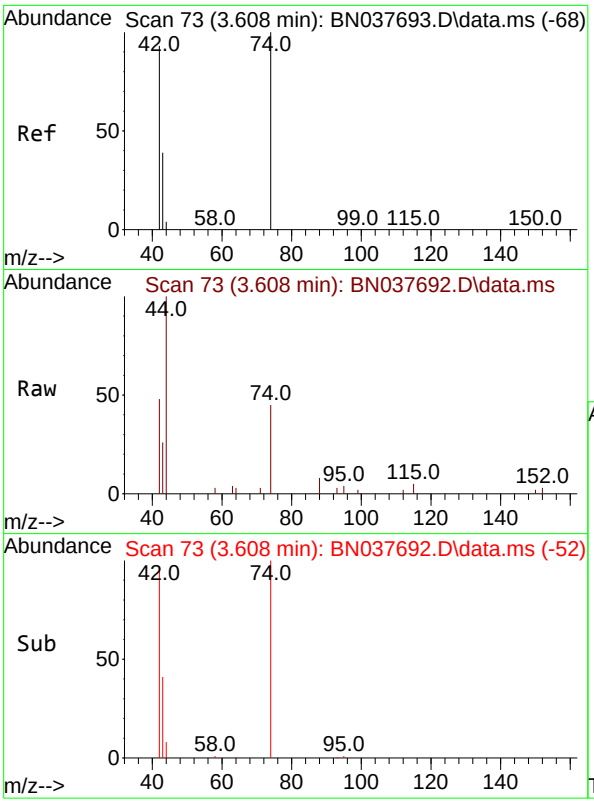




#2
1,4-Dioxane
Concen: 0.206 ng
RT: 3.304 min Scan# 31
Delta R.T. -0.000 min
Lab File: BN037692.D
Acq: 11 Sep 2025 10:32

Tgt Ion: 88 Resp: 1189

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 88 | 100 | | |
| 43 | 34.1 | 26.8 | 40.2 |
| 58 | 78.4 | 61.9 | 92.9 |



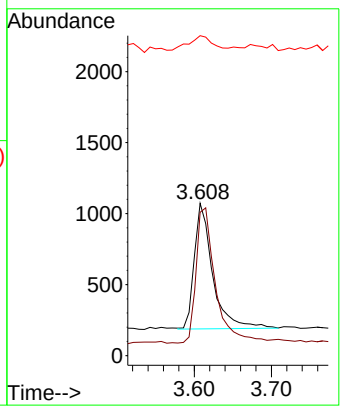


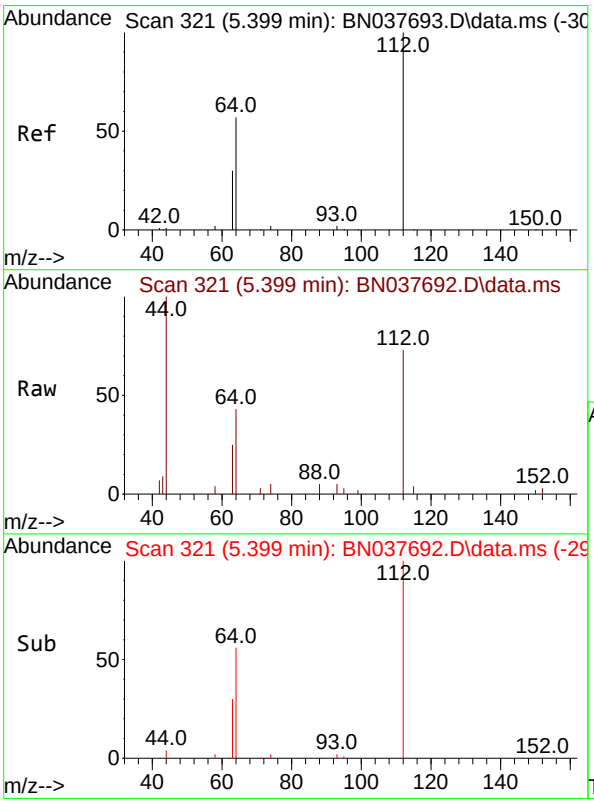

#3
n-Nitrosodimethylamine
Concen: 0.195 ng
RT: 3.608 min Scan# 7
Delta R.T. -0.000 min
Lab File: BN037692.D
Acq: 11 Sep 2025 10:32

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

Tgt Ion: 42 Resp: 1470

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 42 | 100 | | |
| 74 | 113.6 | 86.0 | 129.0 |
| 44 | 16.2 | 8.4 | 12.6# |

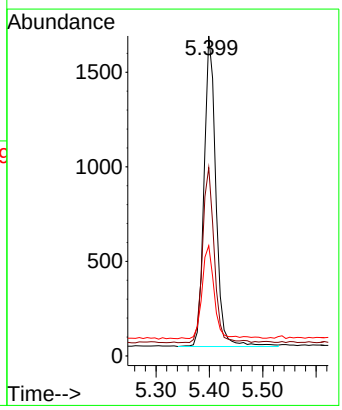


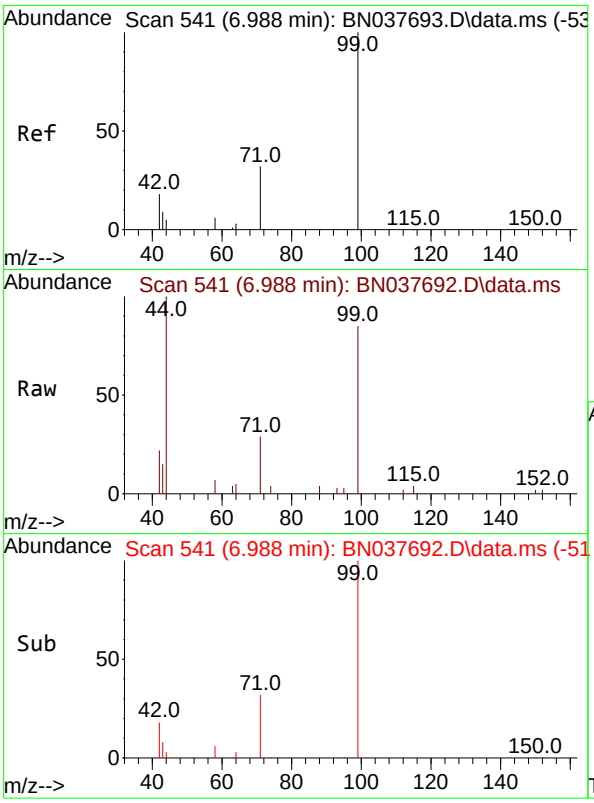




#4
2-Fluorophenol
Concen: 0.199 ng
RT: 5.399 min Scan# 321
Delta R.T. -0.000 min
Lab File: BN037692.D
Acq: 11 Sep 2025 10:32

Tgt Ion:112 Resp: 2533

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 112 | 100 | | |
| 64 | 55.5 | 44.9 | 67.3 |
| 63 | 30.4 | 24.7 | 37.1 |



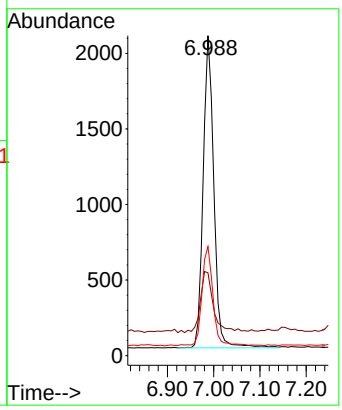


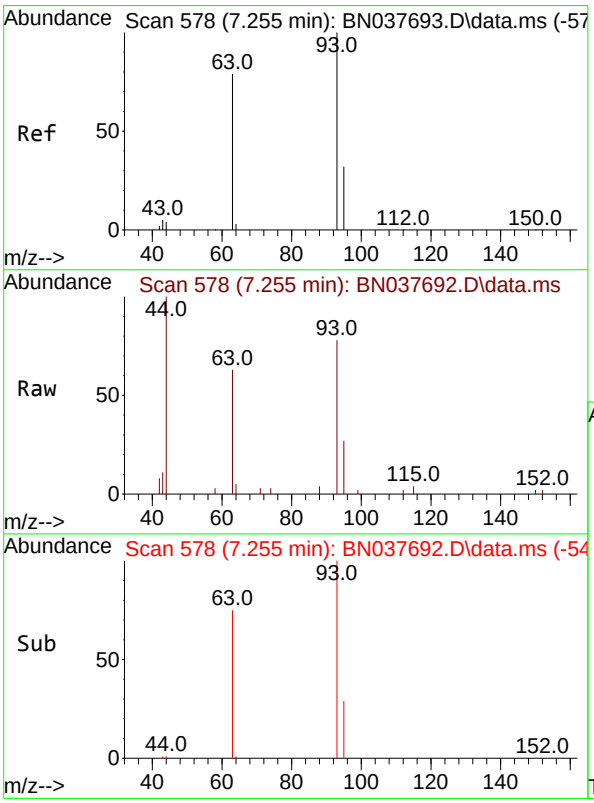

#5
Phenol-d6
Concen: 0.200 ng
RT: 6.988 min Scan# 54
Delta R.T. -0.000 min
Lab File: BN037692.D
Acq: 11 Sep 2025 10:32

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

Tgt Ion: 99 Resp: 3308

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 99 | 100 | | |
| 42 | 24.3 | 16.6 | 24.8 |
| 71 | 32.8 | 26.7 | 40.1 |

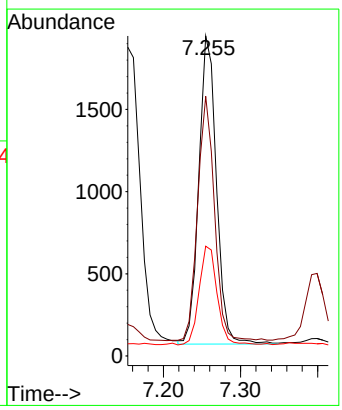


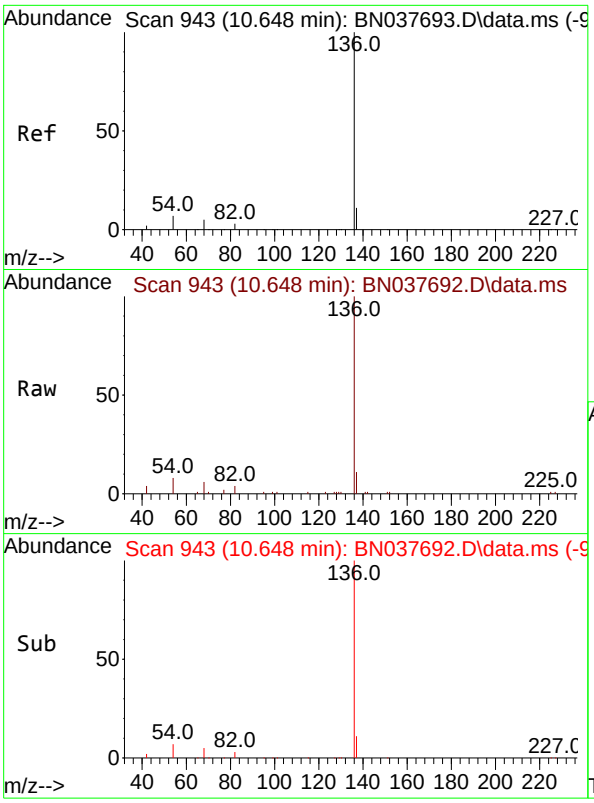




#6
bis(2-Chloroethyl)ether
Concen: 0.202 ng
RT: 7.255 min Scan# 578
Delta R.T. -0.000 min
Lab File: BN037692.D
Acq: 11 Sep 2025 10:32

Tgt Ion: 93 Resp: 2982

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 93 | 100 | | |
| 63 | 75.7 | 60.6 | 90.8 |
| 95 | 32.5 | 26.0 | 39.0 |



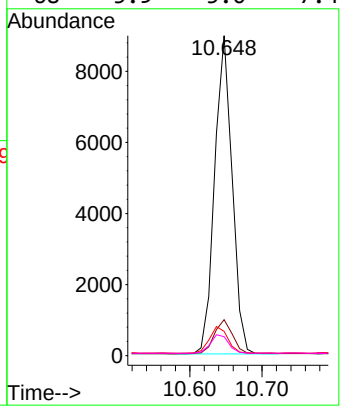


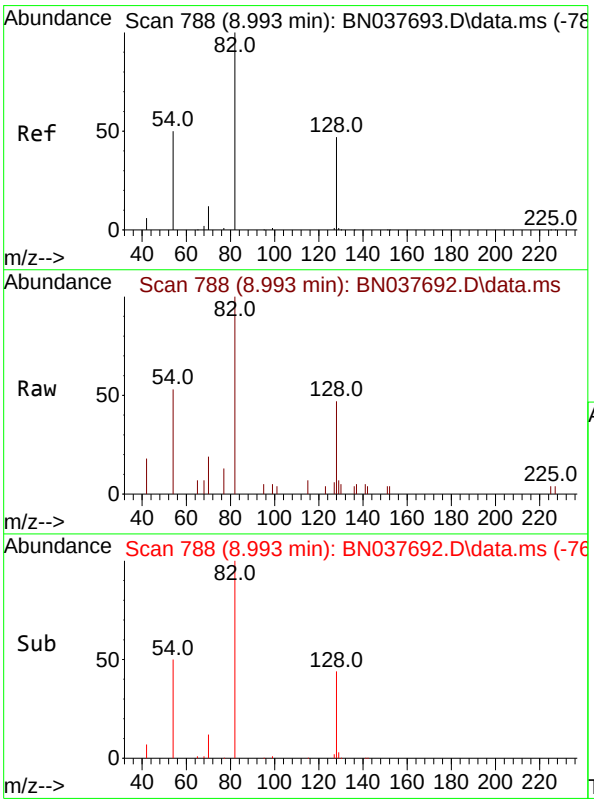

#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.648 min Scan# 94
Delta R.T. -0.000 min
Lab File: BN037692.D
Acq: 11 Sep 2025 10:32

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

Tgt Ion:136 Resp: 15018

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 136 | 100 | | |
| 137 | 11.2 | 9.1 | 13.7 |
| 54 | 7.6 | 6.3 | 9.5 |
| 68 | 5.9 | 5.0 | 7.4 |

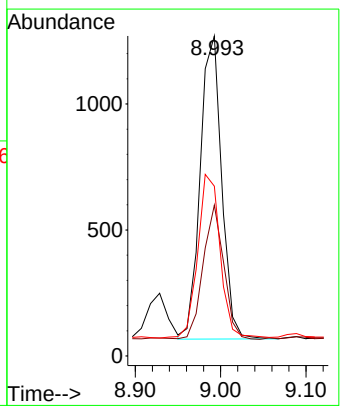


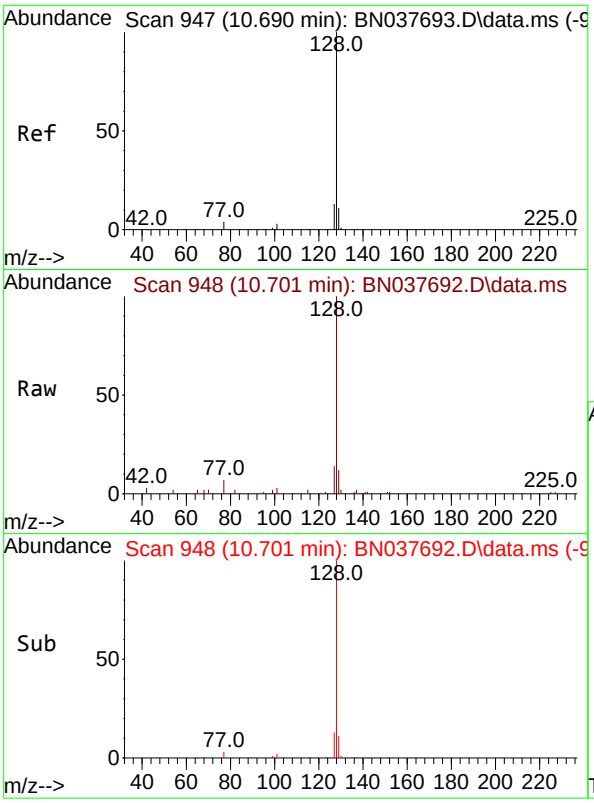




#8
Nitrobenzene-d5
Concen: 0.191 ng
RT: 8.993 min Scan# 788
Delta R.T. -0.000 min
Lab File: BN037692.D
Acq: 11 Sep 2025 10:32

Tgt Ion: 82 Resp: 2098

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 82 | 100 | | |
| 128 | 47.2 | 38.3 | 57.5 |
| 54 | 53.1 | 41.4 | 62.2 |



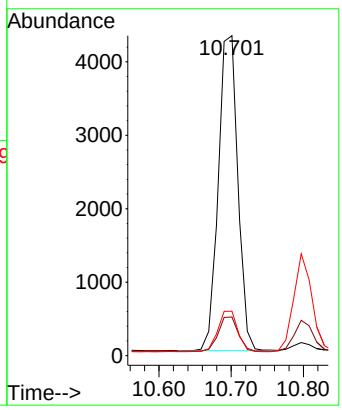


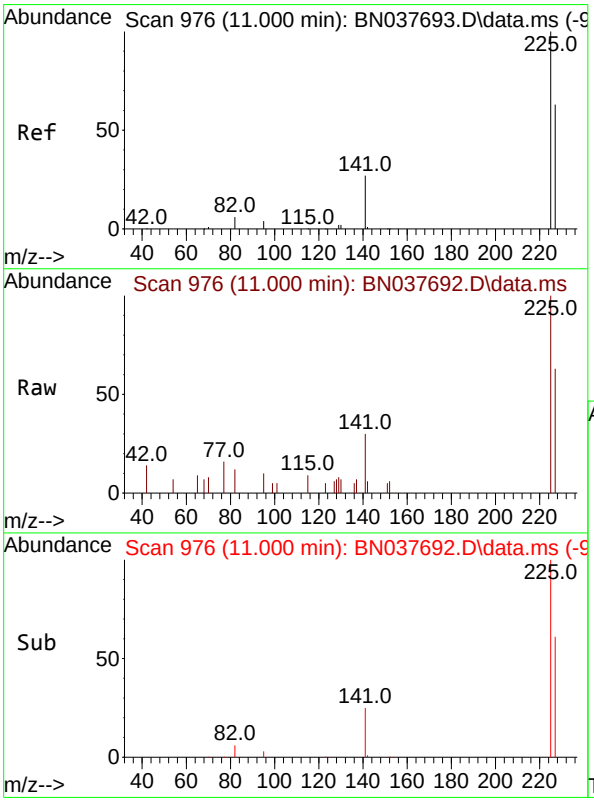

#9
Naphthalene
Concen: 0.196 ng
RT: 10.701 min Scan# 94
Delta R.T. 0.011 min
Lab File: BN037692.D
Acq: 11 Sep 2025 10:32

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

Tgt Ion:128 Resp: 8051

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 128 | 100 | | |
| 129 | 12.1 | 9.1 | 13.7 |
| 127 | 13.9 | 10.9 | 16.3 |

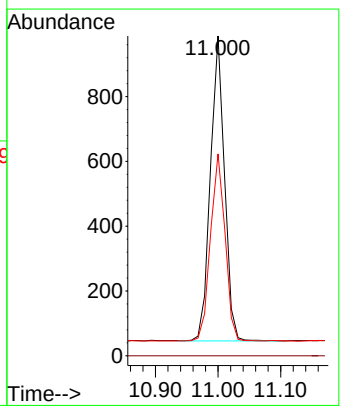


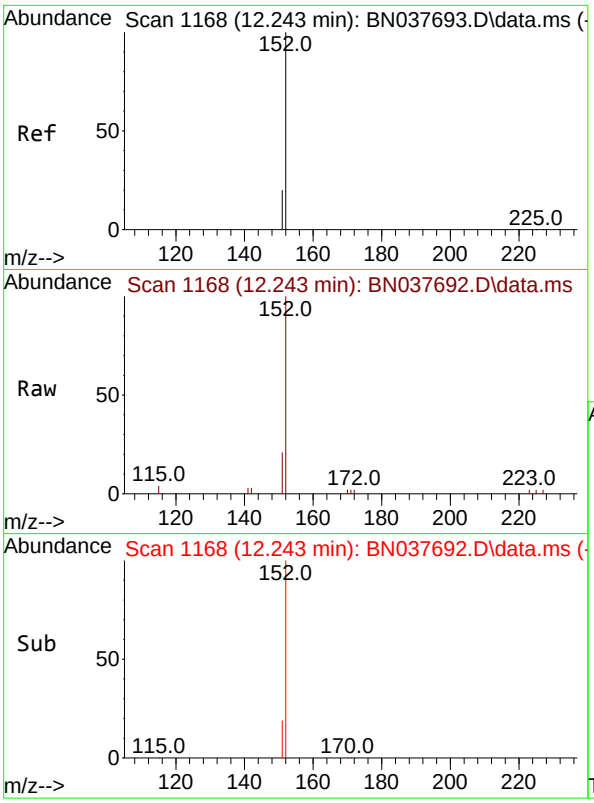




#10
Hexachlorobutadiene
Concen: 0.198 ng
RT: 11.000 min Scan# 976
Delta R.T. -0.000 min
Lab File: BN037692.D
Acq: 11 Sep 2025 10:32

Tgt Ion:225 Resp: 1472

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 225 | 100 | | |
| 223 | 0.0 | 0.0 | 0.0 |
| 227 | 63.2 | 50.9 | 76.3 |



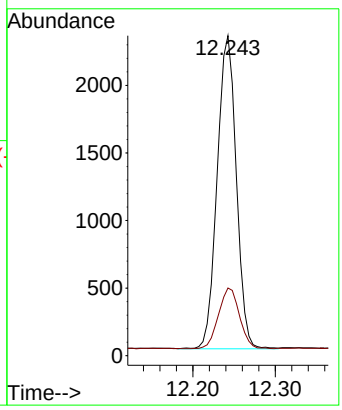


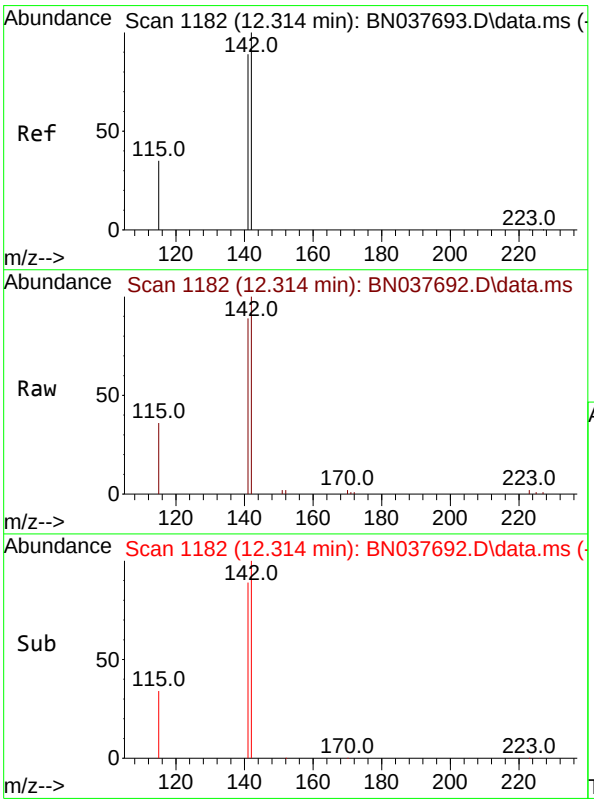

#11
2-Methylnaphthalene-d10
Concen: 0.188 ng
RT: 12.243 min Scan# 11
Delta R.T. -0.000 min
Lab File: BN037692.D
Acq: 11 Sep 2025 10:32

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

Tgt Ion:152 Resp: 3732

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

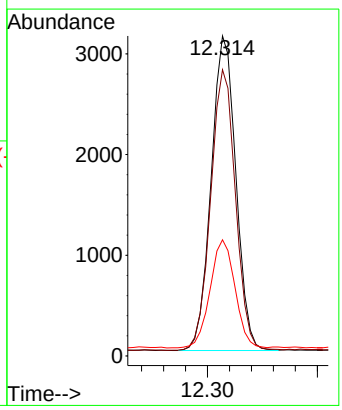


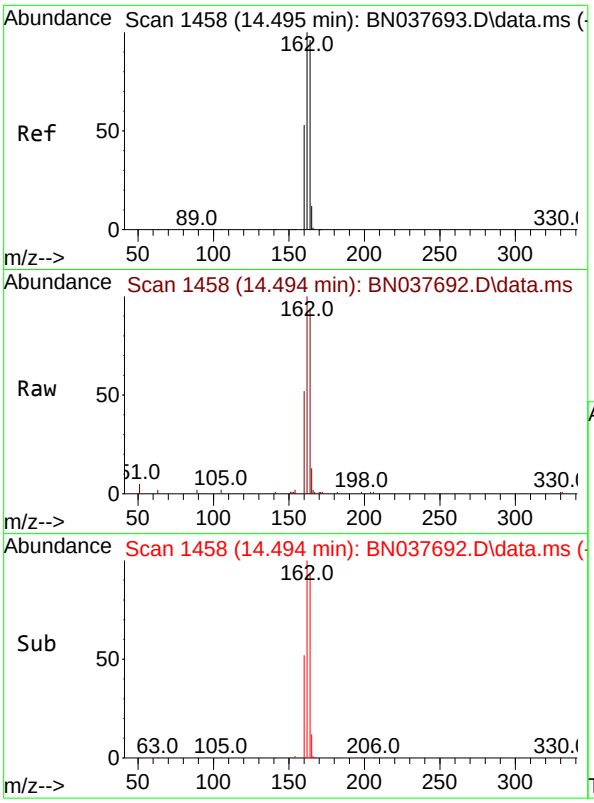




#12
2-Methylnaphthalene
Concen: 0.193 ng
RT: 12.314 min Scan# 1182
Delta R.T. -0.000 min
Lab File: BN037692.D
Acq: 11 Sep 2025 10:32

Tgt Ion:142 Resp: 4889

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 142 | 100 | | |
| 141 | 89.5 | 71.6 | 107.4 |
| 115 | 36.3 | 28.6 | 43.0 |



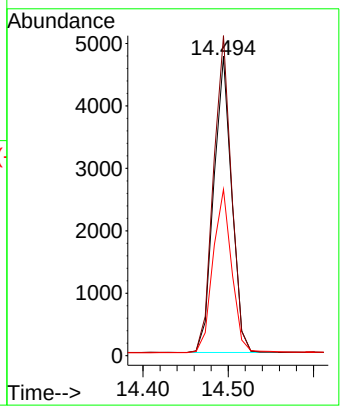


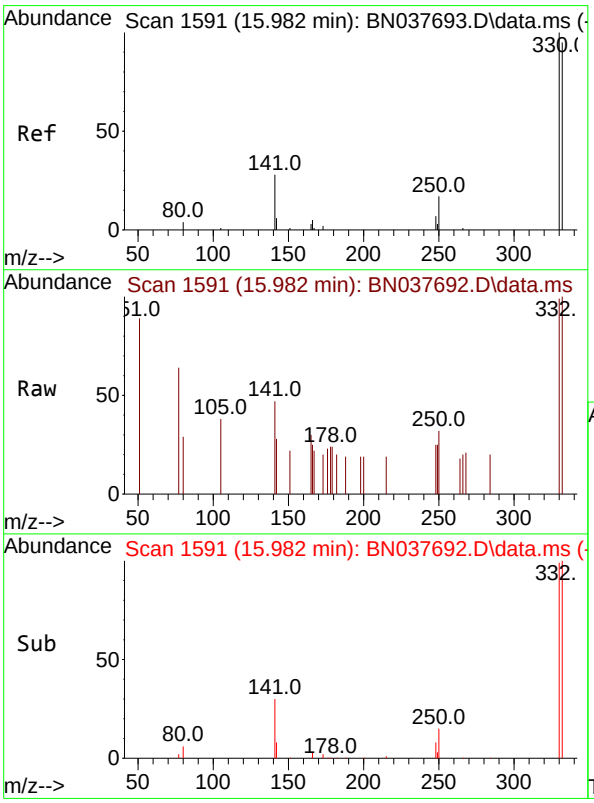

#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.494 min Scan# 14
Delta R.T. -0.000 min
Lab File: BN037692.D
Acq: 11 Sep 2025 10:32

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

Tgt Ion:164 Resp: 6952

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 164 | 100 | | |
| 162 | 106.9 | 83.1 | 124.7 |
| 160 | 55.5 | 44.3 | 66.5 |

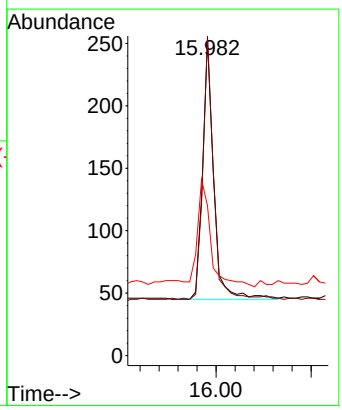


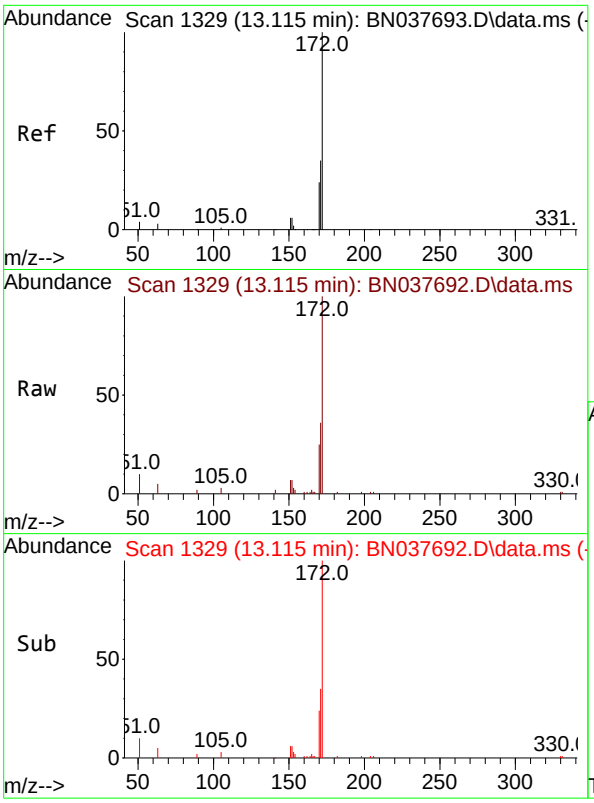




#14
2,4,6-Tribromophenol
Concen: 0.188 ng
RT: 15.982 min Scan# 1591
Delta R.T. -0.000 min
Lab File: BN037692.D
Acq: 11 Sep 2025 10:32

Tgt Ion:330 Resp: 340

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 330 | 100 | | |
| 332 | 95.6 | 75.3 | 112.9 |
| 141 | 49.4 | 35.0 | 52.4 |



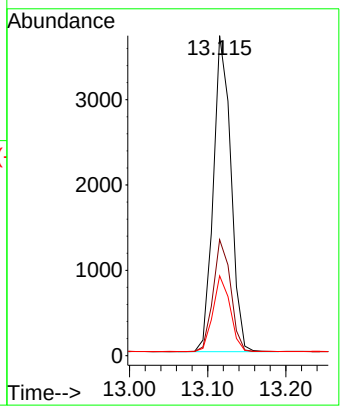


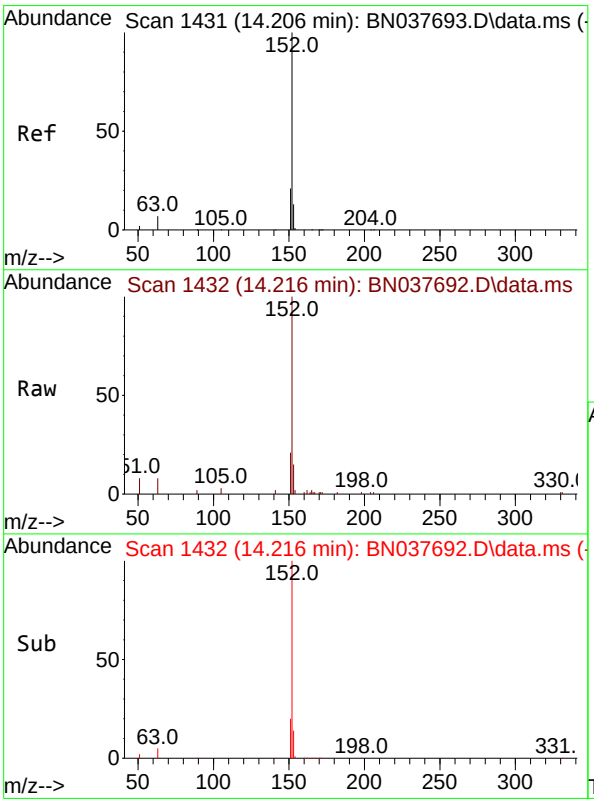

#15
2-Fluorobiphenyl
Concen: 0.199 ng
RT: 13.115 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN037692.D
Acq: 11 Sep 2025 10:32

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

Tgt Ion:172 Resp: 5791

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 172 | 100 | | |
| 171 | 36.2 | 28.6 | 43.0 |
| 170 | 24.9 | 19.8 | 29.8 |

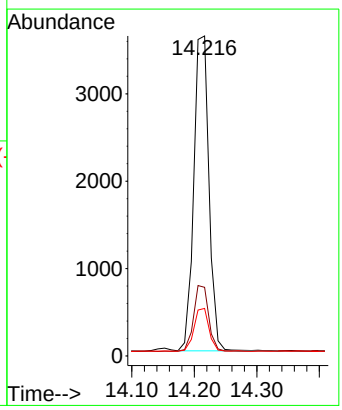


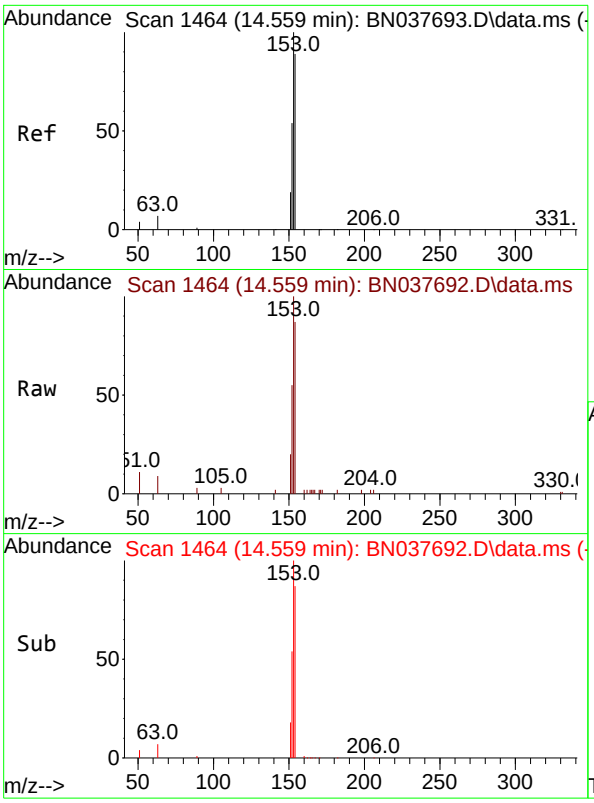




#16
Acenaphthylene
Concen: 0.191 ng
RT: 14.216 min Scan# 1432
Delta R.T. 0.011 min
Lab File: BN037692.D
Acq: 11 Sep 2025 10:32

Tgt Ion:152 Resp: 6105

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 151 | 20.8 | 16.2 | 24.2 |
| 153 | 13.8 | 10.4 | 15.6 |



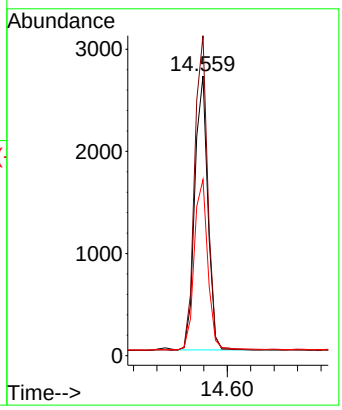


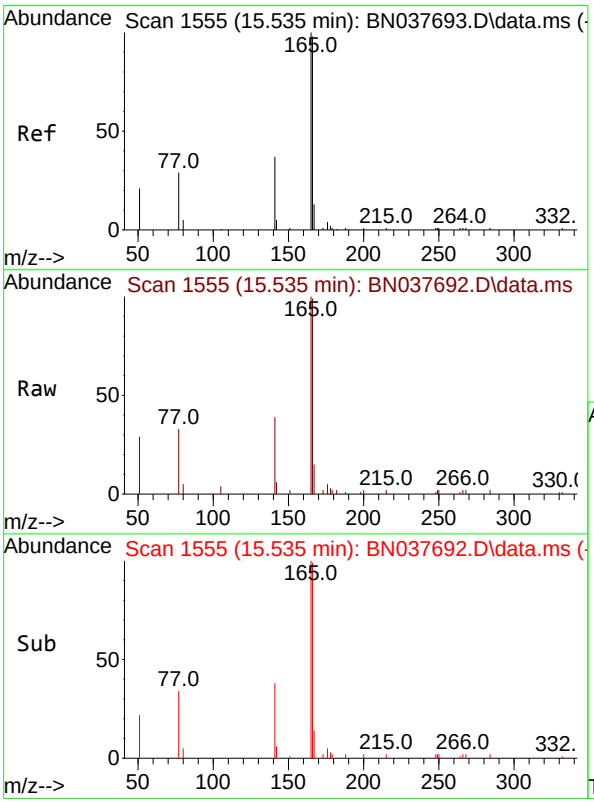

#17
Acenaphthene
Concen: 0.193 ng
RT: 14.559 min Scan# 14
Delta R.T. -0.000 min
Lab File: BN037692.D
Acq: 11 Sep 2025 10:32

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

Tgt Ion:154 Resp: 4168

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 154 | 100 | | |
| 153 | 114.9 | 89.8 | 134.8 |
| 152 | 64.4 | 50.2 | 75.2 |

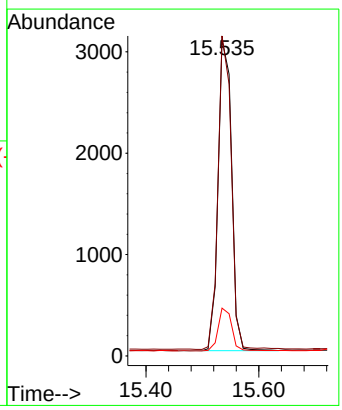


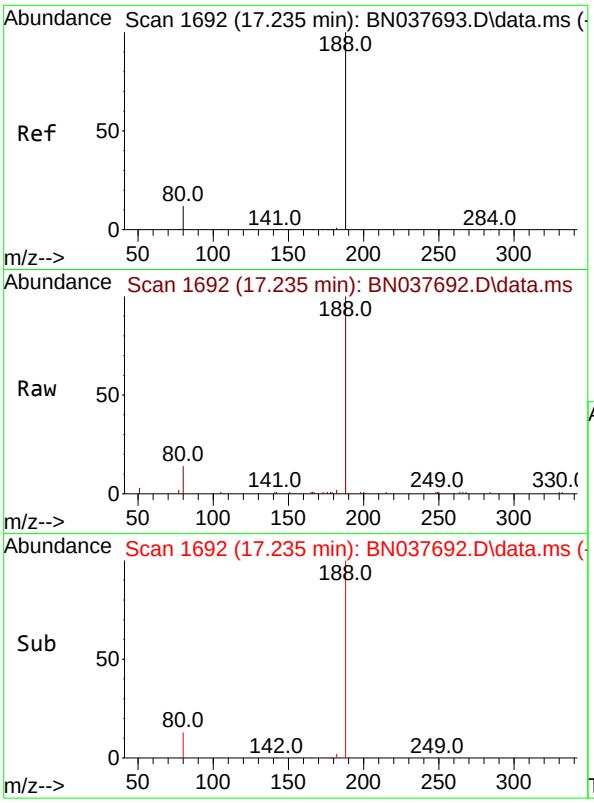




#18
Fluorene
Concen: 0.187 ng
RT: 15.535 min Scan# 1555
Delta R.T. -0.000 min
Lab File: BN037692.D
Acq: 11 Sep 2025 10:32

Tgt Ion:166 Resp: 4875

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 166 | 100 | | |
| 165 | 102.3 | 79.6 | 119.4 |
| 167 | 14.5 | 10.6 | 16.0 |



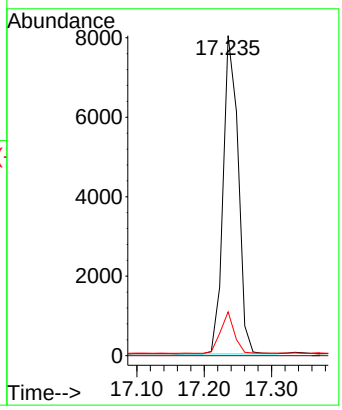


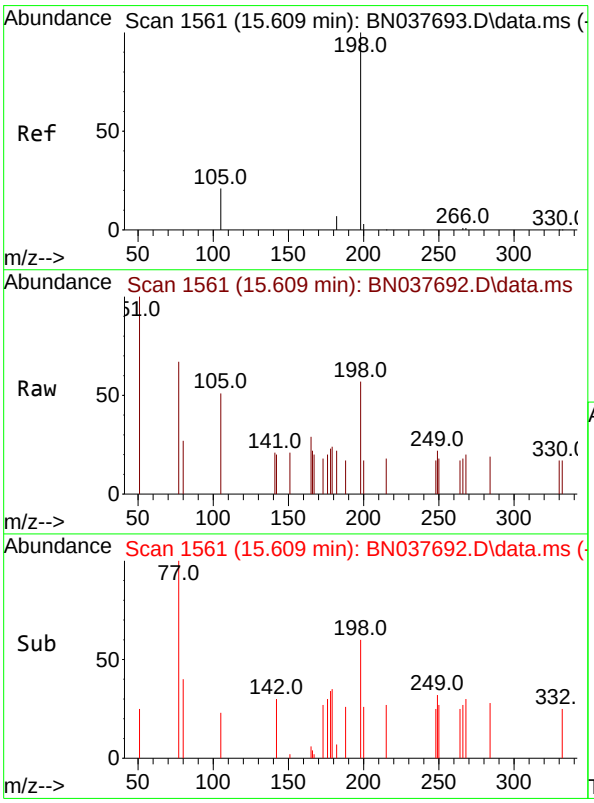

#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.235 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN037692.D
Acq: 11 Sep 2025 10:32

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

Tgt Ion:188 Resp: 12385

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 188 | 100 | | |
| 94 | 0.0 | 0.0 | 0.0 |
| 80 | 13.7 | 10.6 | 15.8 |

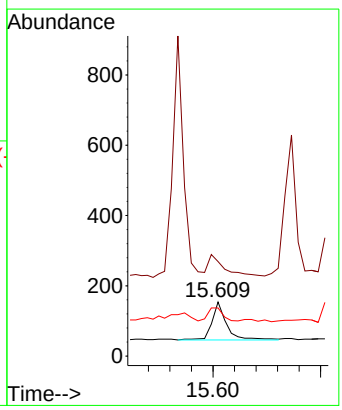


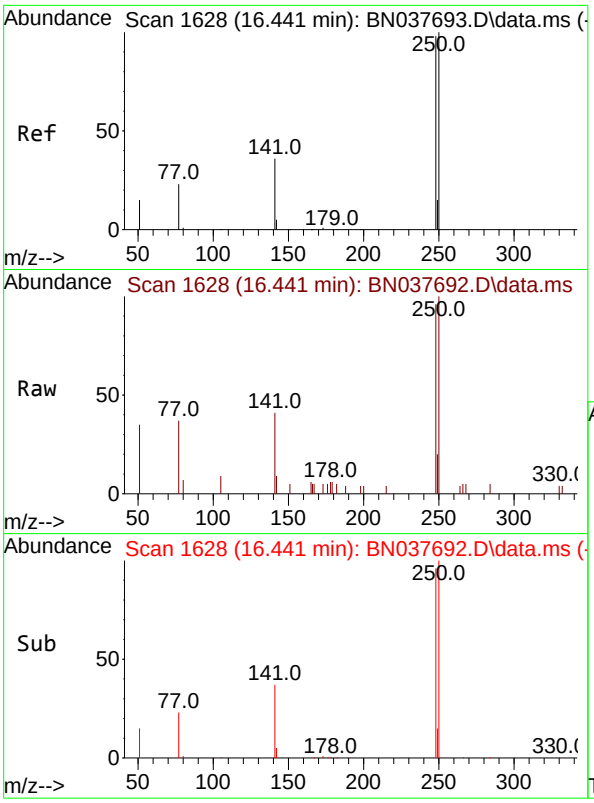




#20
4,6-Dinitro-2-methylphenol
Concen: 0.175 ng
RT: 15.609 min Scan# 1561
Delta R.T. 0.000 min
Lab File: BN037692.D
Acq: 11 Sep 2025 10:32

Tgt Ion:198 Resp: 201

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 198 | 100 | | |
| 51 | 174.7 | 95.1 | 142.7# |
| 105 | 89.0 | 53.8 | 80.6# |



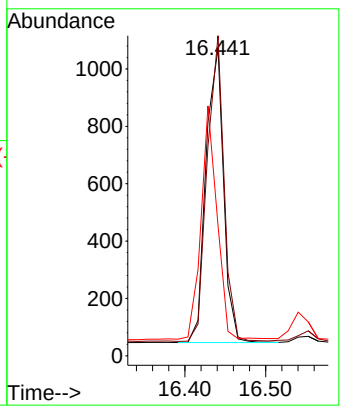


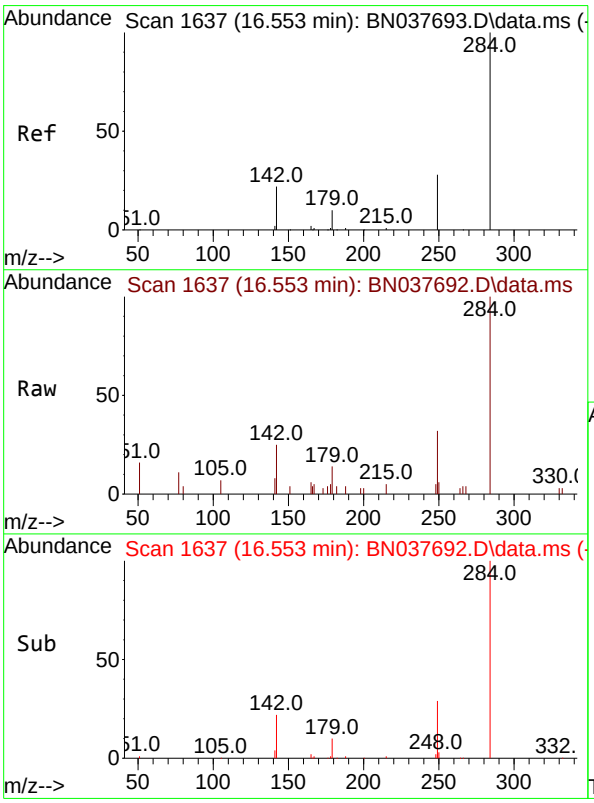

#21
4-Bromophenyl-phenylether
Concen: 0.193 ng
RT: 16.441 min Scan# 1(
Delta R.T. -0.000 min
Lab File: BN037692.D
Acq: 11 Sep 2025 10:32

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

Tgt Ion:248 Resp: 1560

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 248 | 100 | | |
| 250 | 104.0 | 81.5 | 122.3 |
| 141 | 42.3 | 30.8 | 46.2 |

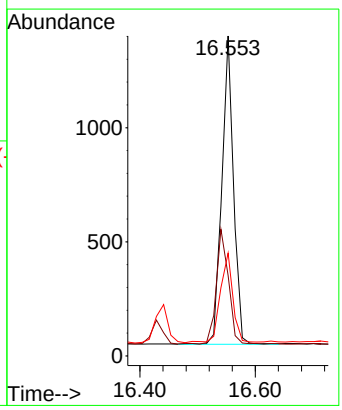


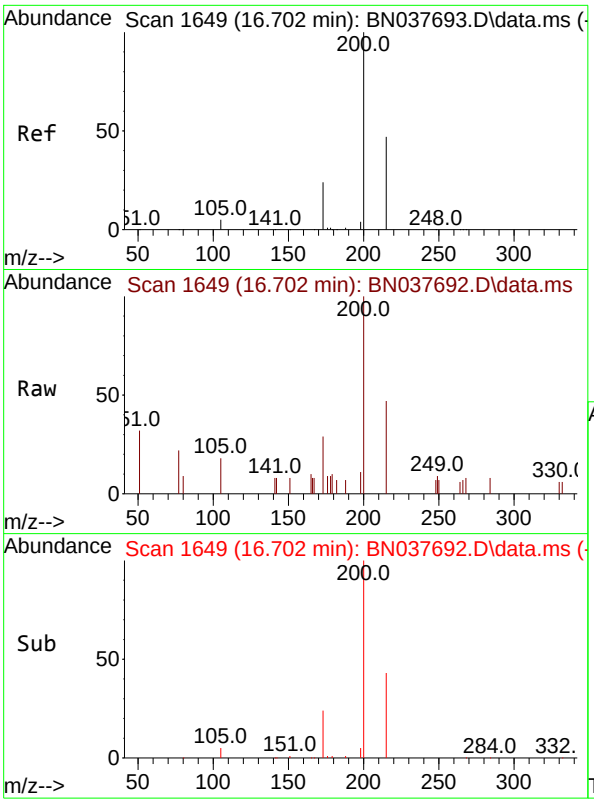




#22
Hexachlorobenzene
Concen: 0.205 ng
RT: 16.553 min Scan# 1637
Delta R.T. -0.000 min
Lab File: BN037692.D
Acq: 11 Sep 2025 10:32

Tgt Ion:284 Resp: 1906

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 284 | 100 | | |
| 142 | 38.4 | 30.9 | 46.3 |
| 249 | 31.4 | 24.8 | 37.2 |



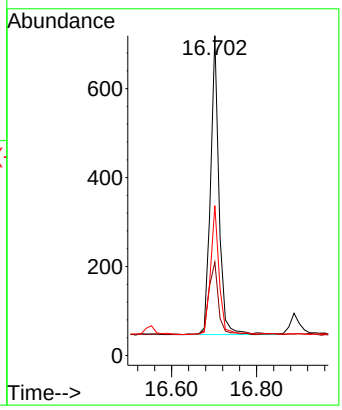


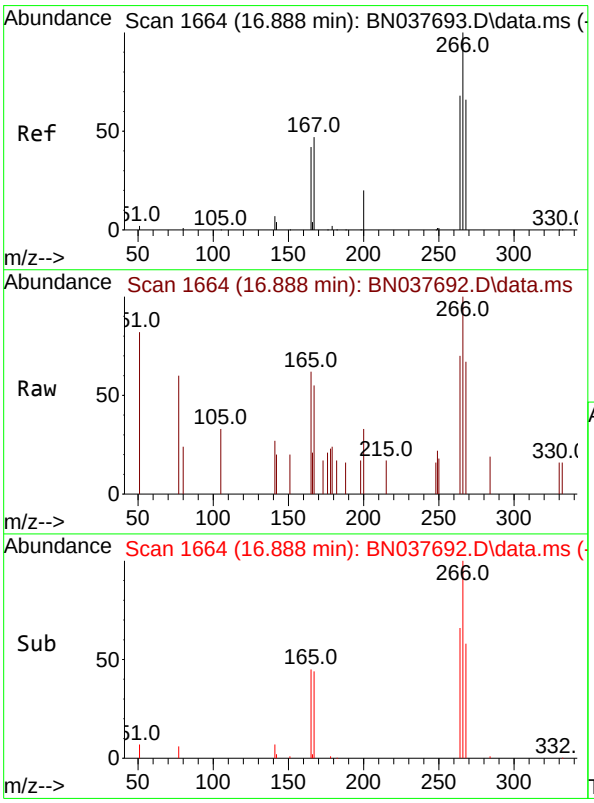

#23
Atrazine
Concen: 0.181 ng
RT: 16.702 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN037692.D
Acq: 11 Sep 2025 10:32

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

Tgt Ion:200 Resp: 932

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 200 | 100 | | |
| 173 | 29.2 | 21.4 | 32.2 |
| 215 | 46.9 | 39.2 | 58.8 |

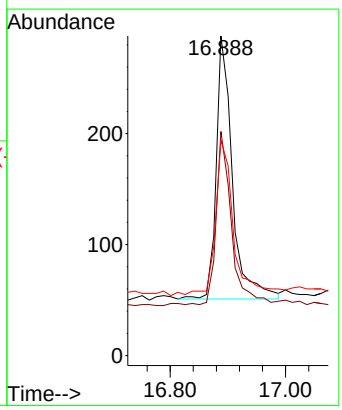


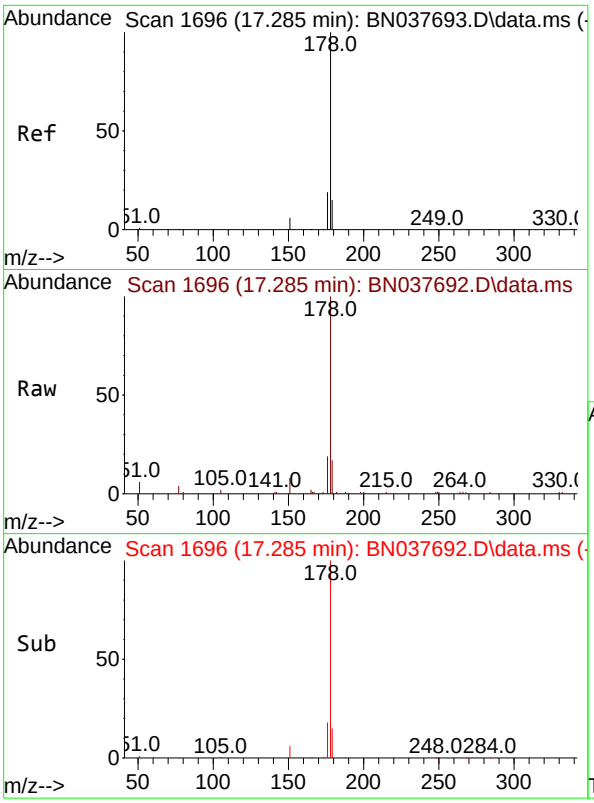




#24
Pentachlorophenol
Concen: 0.171 ng
RT: 16.888 min Scan# 1664
Delta R.T. -0.000 min
Lab File: BN037692.D
Acq: 11 Sep 2025 10:32

Tgt Ion:266 Resp: 461

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 266 | 100 | | |
| 264 | 61.6 | 51.6 | 77.4 |
| 268 | 67.5 | 53.2 | 79.8 |



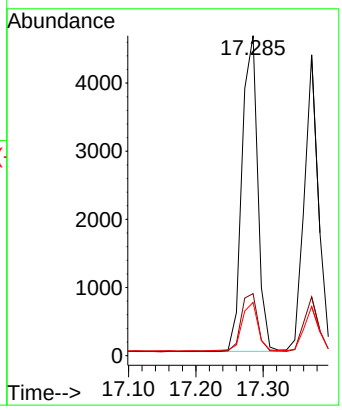


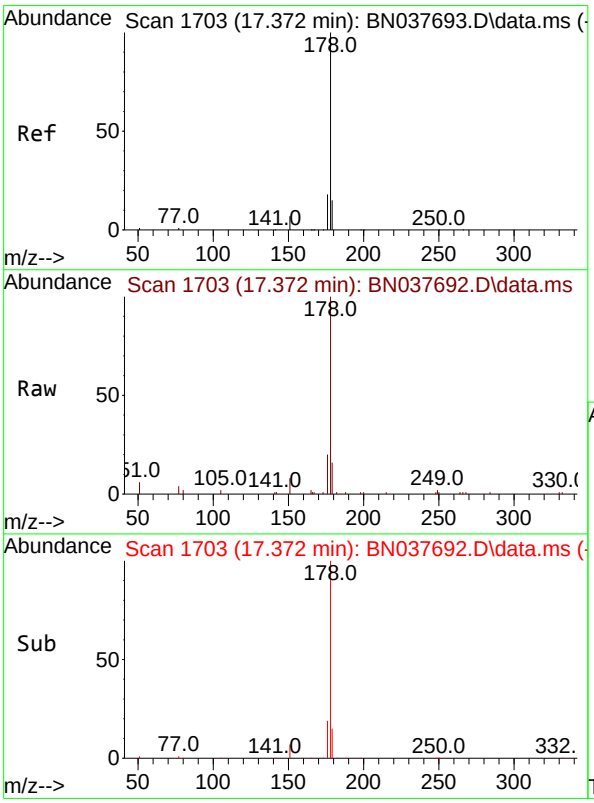

#25
Phenanthrene
Concen: 0.193 ng
RT: 17.285 min Scan# 1(
Delta R.T. -0.000 min
Lab File: BN037692.D
Acq: 11 Sep 2025 10:32

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

Tgt Ion:178 Resp: 7526

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 178 | 100 | | |
| 176 | 19.9 | 15.3 | 22.9 |
| 179 | 15.7 | 12.2 | 18.2 |

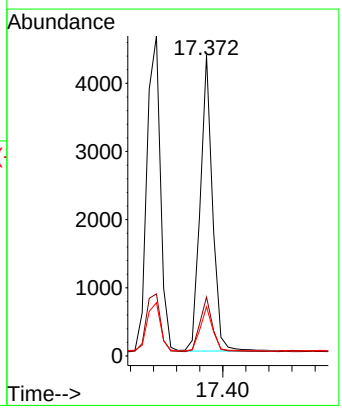


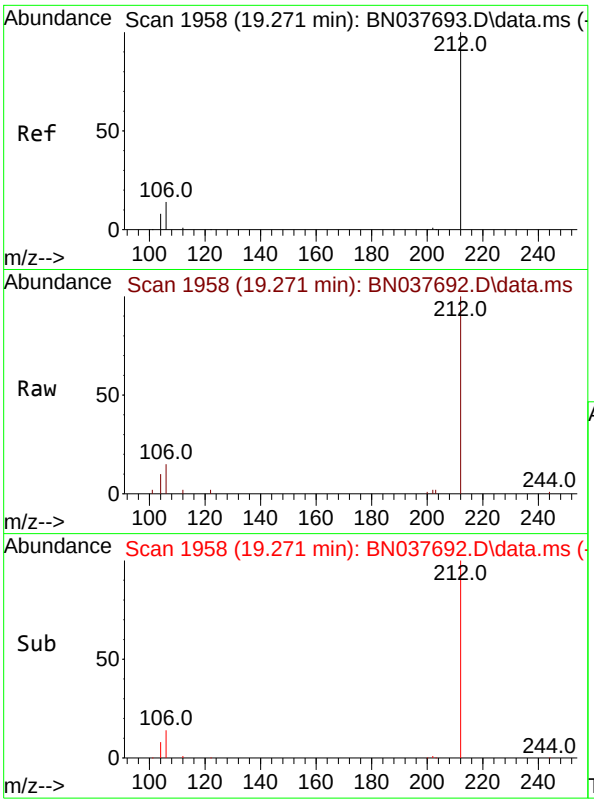




#26
Anthracene
Concen: 0.185 ng
RT: 17.372 min Scan# 1703
Delta R.T. -0.000 min
Lab File: BN037692.D
Acq: 11 Sep 2025 10:32

Tgt Ion:178 Resp: 6375

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 178 | 100 | | |
| 176 | 19.0 | 14.6 | 22.0 |
| 179 | 15.4 | 12.2 | 18.4 |



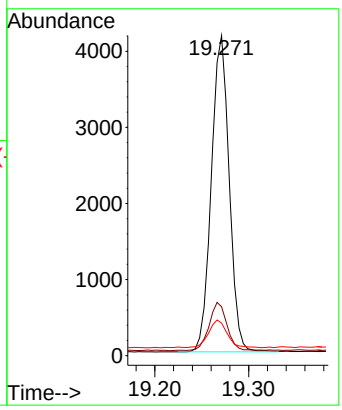


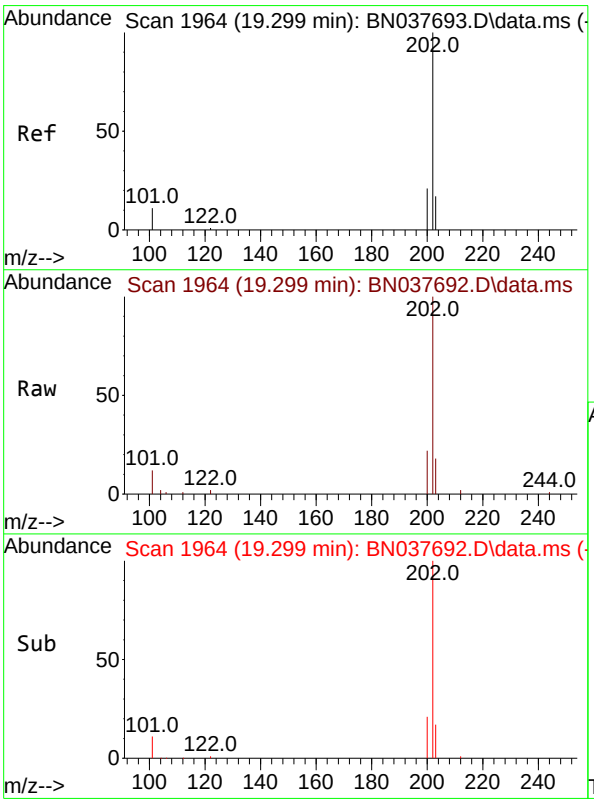

#27
Fluoranthene-d10
Concen: 0.177 ng
RT: 19.271 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN037692.D
Acq: 11 Sep 2025 10:32

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

Tgt Ion:212 Resp: 5492

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 212 | 100 | | |
| 106 | 15.4 | 12.2 | 18.2 |
| 104 | 9.0 | 6.9 | 10.3 |

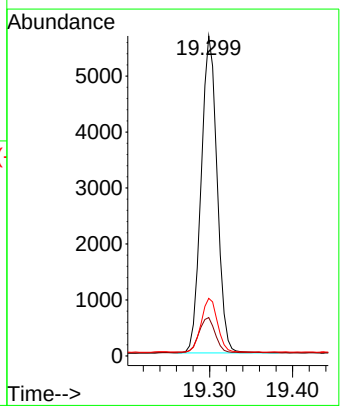


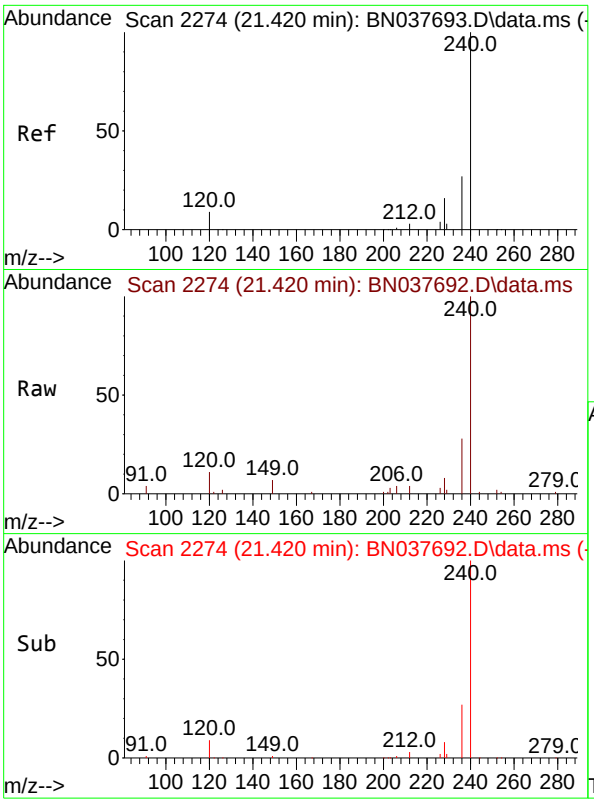




#28
Fluoranthene
Concen: 0.177 ng
RT: 19.299 min Scan# 1964
Delta R.T. -0.000 min
Lab File: BN037692.D
Acq: 11 Sep 2025 10:32

Tgt Ion:202 Resp: 7577

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 202 | 100 | | |
| 101 | 11.7 | 9.3 | 13.9 |
| 203 | 17.1 | 13.7 | 20.5 |



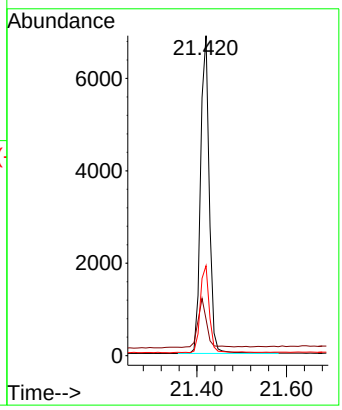


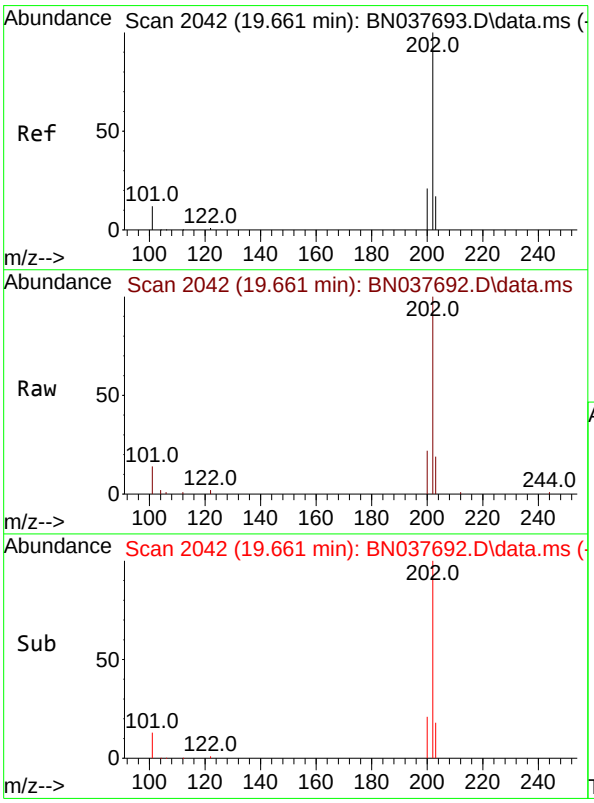

#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.420 min Scan# 2
Delta R.T. -0.000 min
Lab File: BN037692.D
Acq: 11 Sep 2025 10:32

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

Tgt Ion:240 Resp: 9324

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 240 | 100 | | |
| 120 | 11.4 | 9.2 | 13.8 |
| 236 | 28.1 | 22.6 | 33.8 |

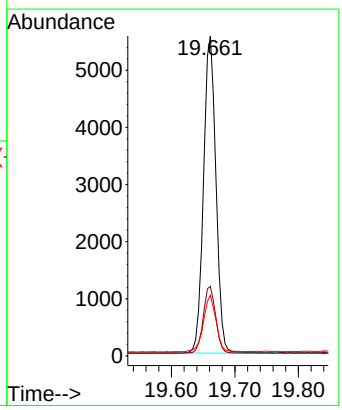


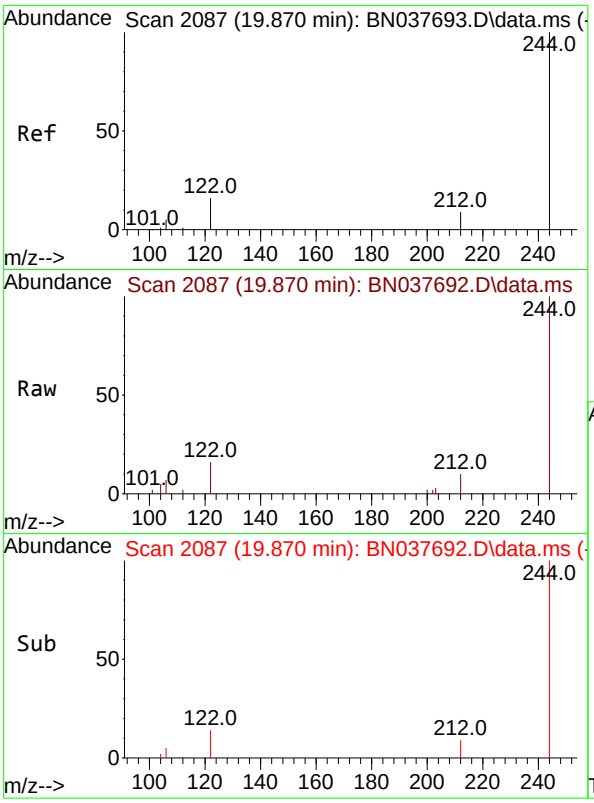




#30
Pyrene
Concen: 0.207 ng
RT: 19.661 min Scan# 2042
Delta R.T. -0.000 min
Lab File: BN037692.D
Acq: 11 Sep 2025 10:32

Tgt Ion:202 Resp: 7543

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 202 | 100 | | |
| 200 | 21.2 | 16.8 | 25.2 |
| 203 | 18.3 | 14.3 | 21.5 |



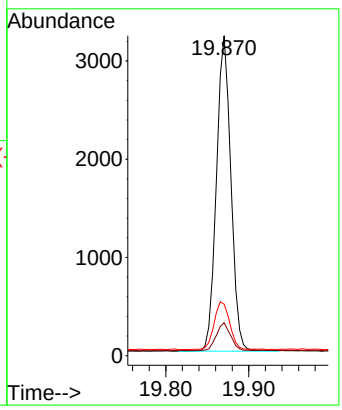


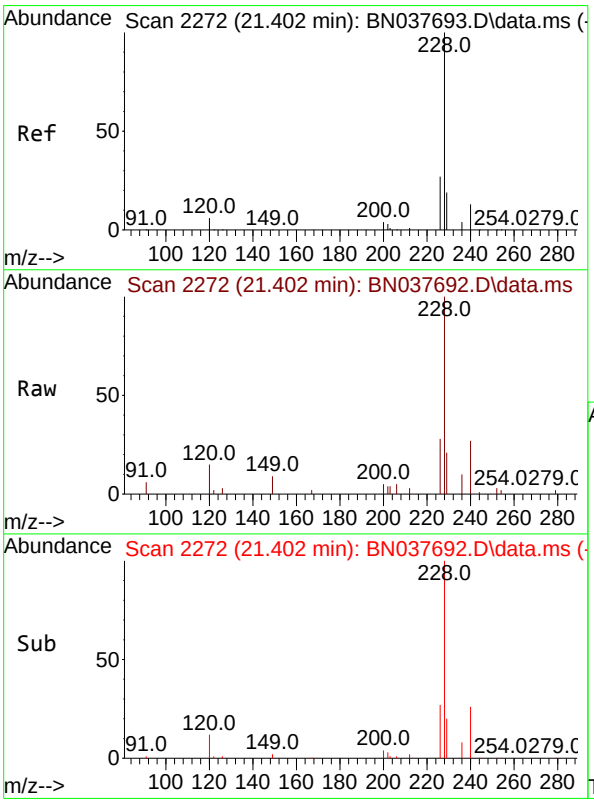

#31
Terphenyl-d14
Concen: 0.205 ng
RT: 19.870 min Scan# 2
Delta R.T. -0.000 min
Lab File: BN037692.D
Acq: 11 Sep 2025 10:32

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

Tgt Ion:244 Resp: 3884

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 244 | 100 | | |
| 212 | 10.3 | 7.5 | 11.3 |
| 122 | 16.1 | 13.2 | 19.8 |

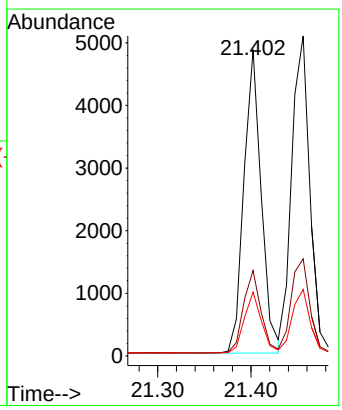


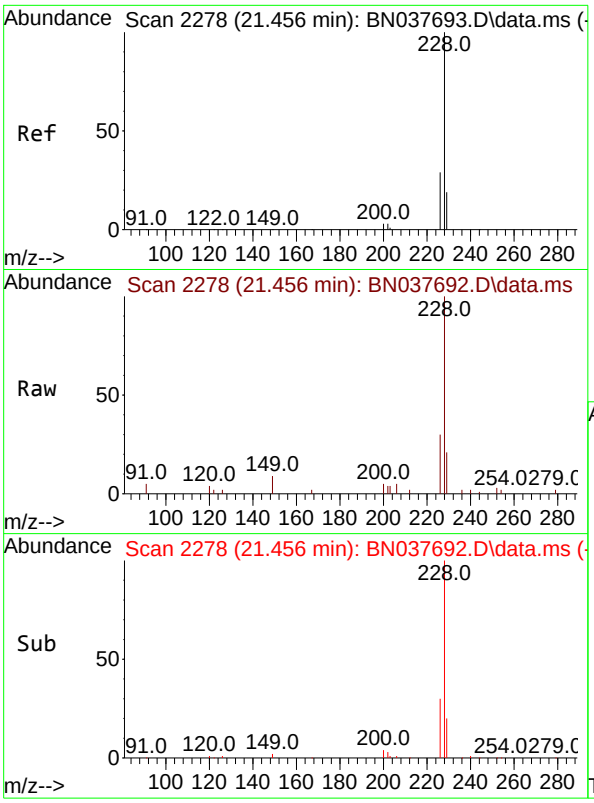




#32
Benzo(a)anthracene
Concen: 0.193 ng
RT: 21.402 min Scan# 2272
Delta R.T. -0.000 min
Lab File: BN037692.D
Acq: 11 Sep 2025 10:32

Tgt Ion:228 Resp: 6270

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 228 | 100 | | |
| 226 | 27.9 | 22.2 | 33.2 |
| 229 | 20.8 | 15.8 | 23.6 |



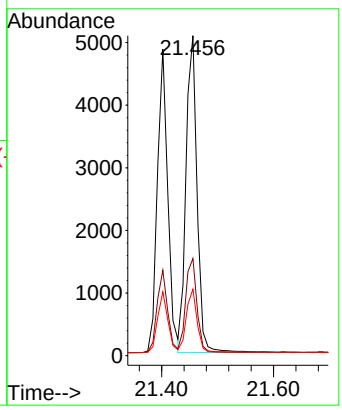


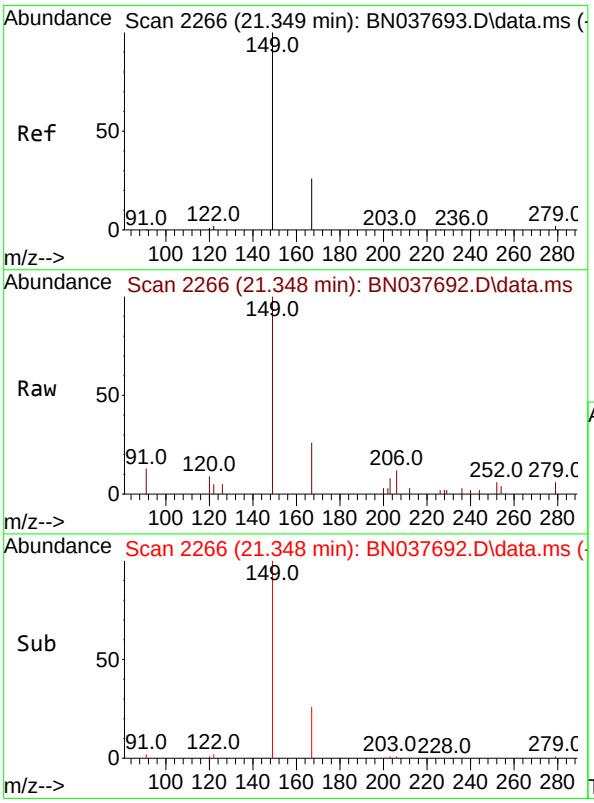

#33
Chrysene
Concen: 0.199 ng
RT: 21.456 min Scan# 2
Delta R.T. -0.000 min
Lab File: BN037692.D
Acq: 11 Sep 2025 10:32

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

Tgt Ion:228 Resp: 6953

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 228 | 100 | | |
| 226 | 30.3 | 23.5 | 35.3 |
| 229 | 20.8 | 15.9 | 23.9 |

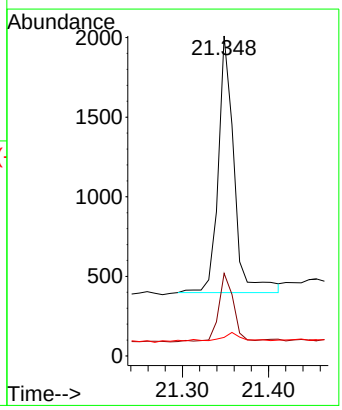


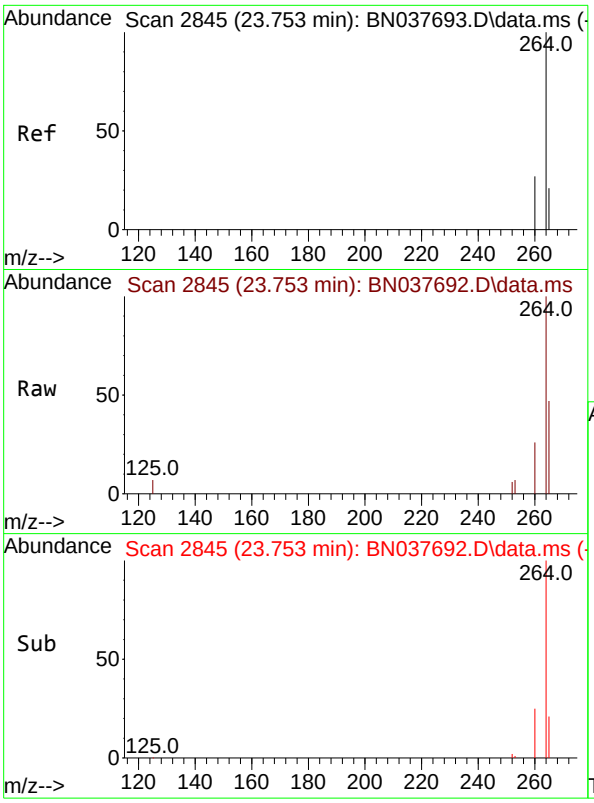




#34
Bis(2-ethylhexyl)phthalate
Concen: 0.213 ng
RT: 21.348 min Scan# 2266
Delta R.T. -0.000 min
Lab File: BN037692.D
Acq: 11 Sep 2025 10:32

Tgt Ion:149 Resp: 2049

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 149 | 100 | | |
| 167 | 24.7 | 20.8 | 31.2 |
| 279 | 3.1 | 3.3 | 4.9# |



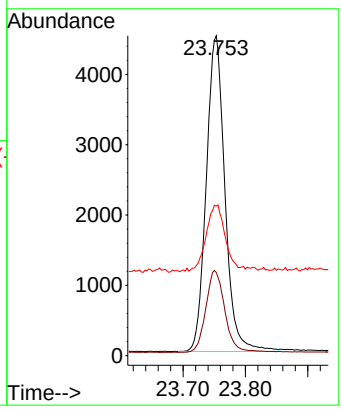


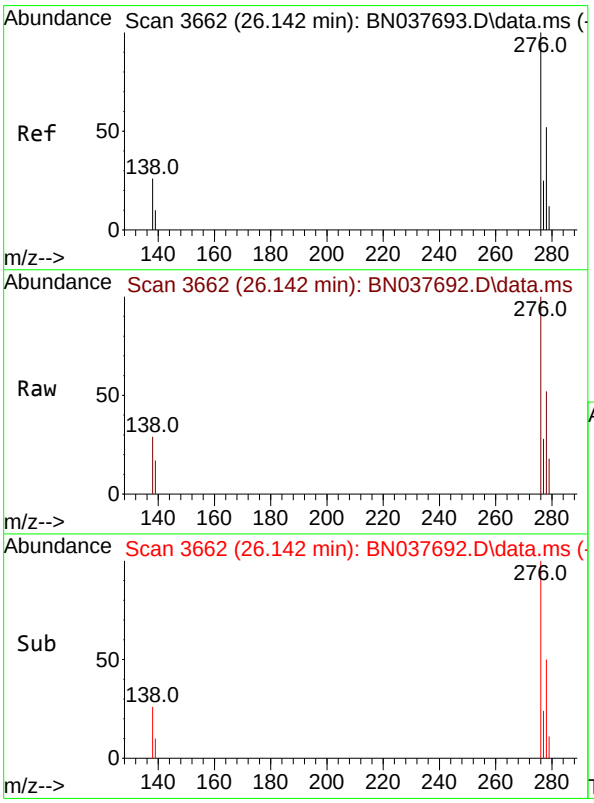

#35
Perylene-d12
Concen: 0.400 ng
RT: 23.753 min Scan# 2
Delta R.T. -0.000 min
Lab File: BN037692.D
Acq: 11 Sep 2025 10:32

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

Tgt Ion:264 Resp: 9364

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 264 | 100 | | |
| 260 | 26.0 | 21.8 | 32.8 |
| 265 | 46.7 | 39.4 | 59.2 |

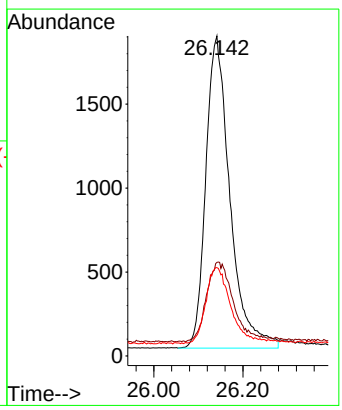


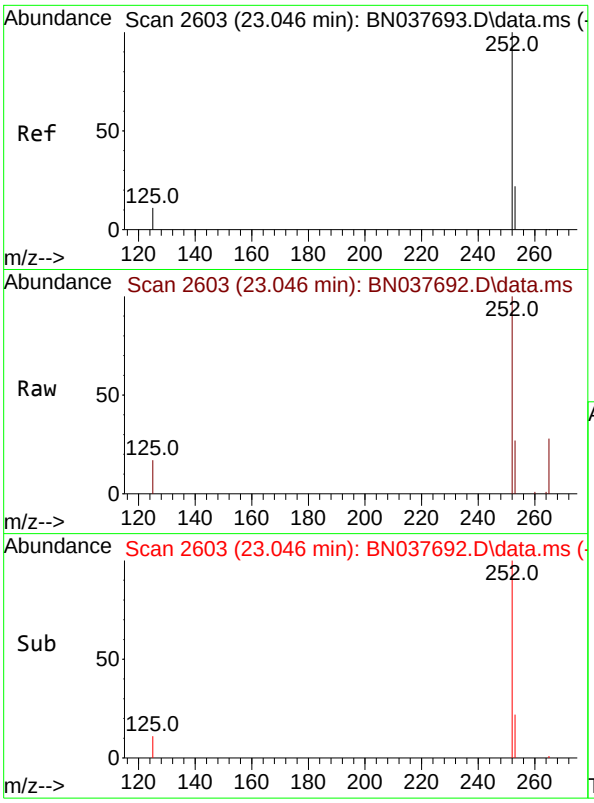




#36
Indeno(1,2,3-cd)pyrene
Concen: 0.177 ng
RT: 26.142 min Scan# 3662
Delta R.T. -0.000 min
Lab File: BN037692.D
Acq: 11 Sep 2025 10:32

Tgt Ion:276 Resp: 6982

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 276 | 100 | | |
| 138 | 28.1 | 21.9 | 32.9 |
| 277 | 24.6 | 20.1 | 30.1 |



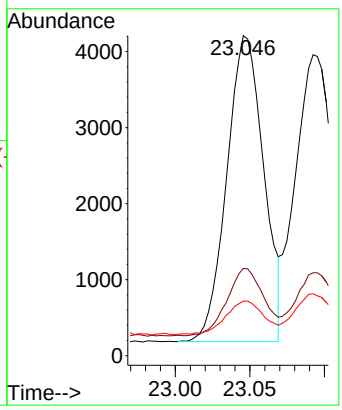


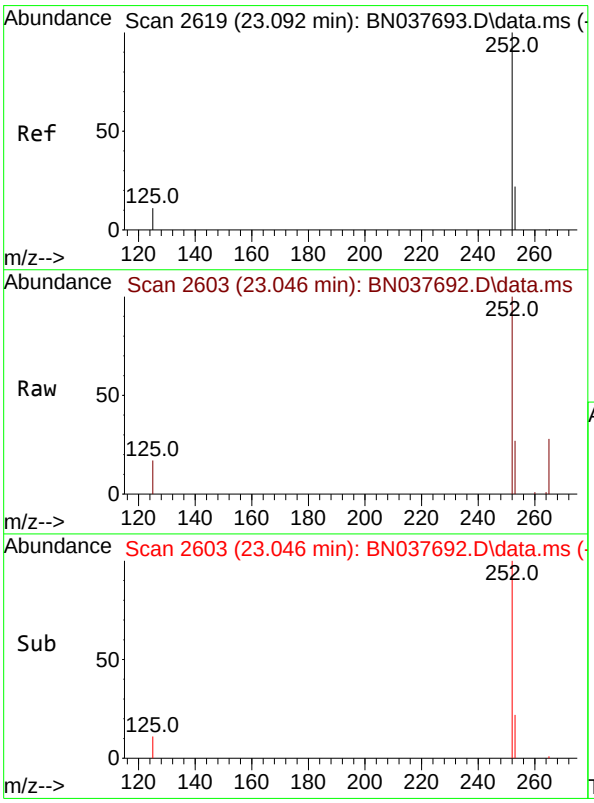

#37
Benzo(b)fluoranthene
Concen: 0.187 ng
RT: 23.046 min Scan# 2
Delta R.T. -0.000 min
Lab File: BN037692.D
Acq: 11 Sep 2025 10:32

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

Tgt Ion:252 Resp: 6907

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 27.3 | 19.4 | 29.2 |
| 125 | 17.0 | 11.2 | 16.8# |

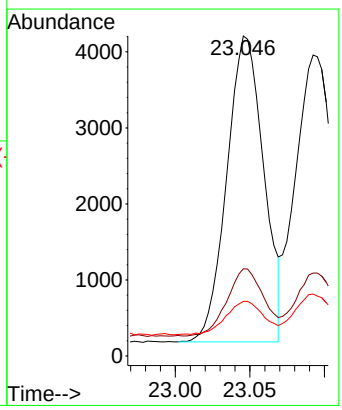


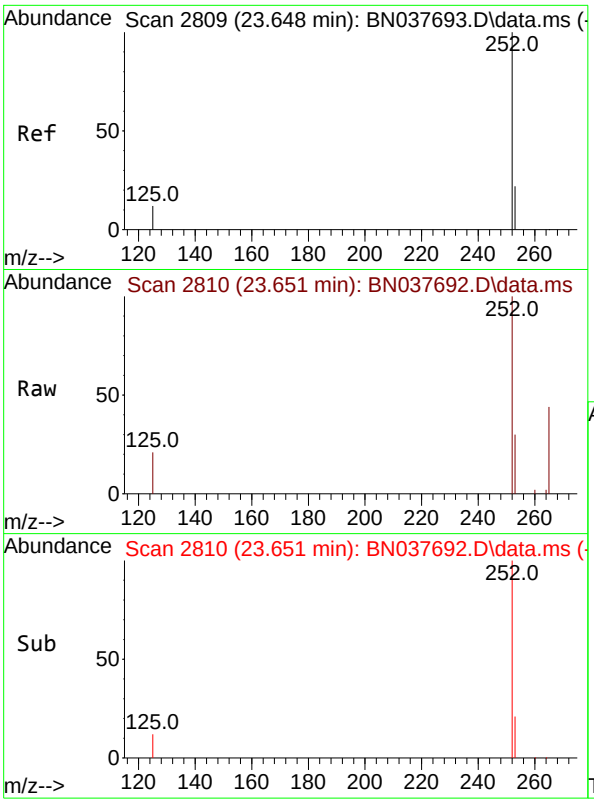




#38
Benzo(k)fluoranthene
Concen: 0.184 ng
RT: 23.046 min Scan# 2603
Delta R.T. -0.047 min
Lab File: BN037692.D
Acq: 11 Sep 2025 10:32

Tgt Ion:252 Resp: 6907

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 27.3 | 19.4 | 29.0 |
| 125 | 17.0 | 11.6 | 17.4 |



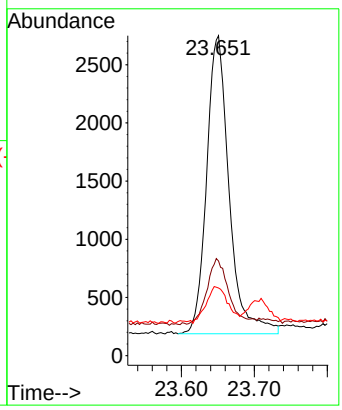


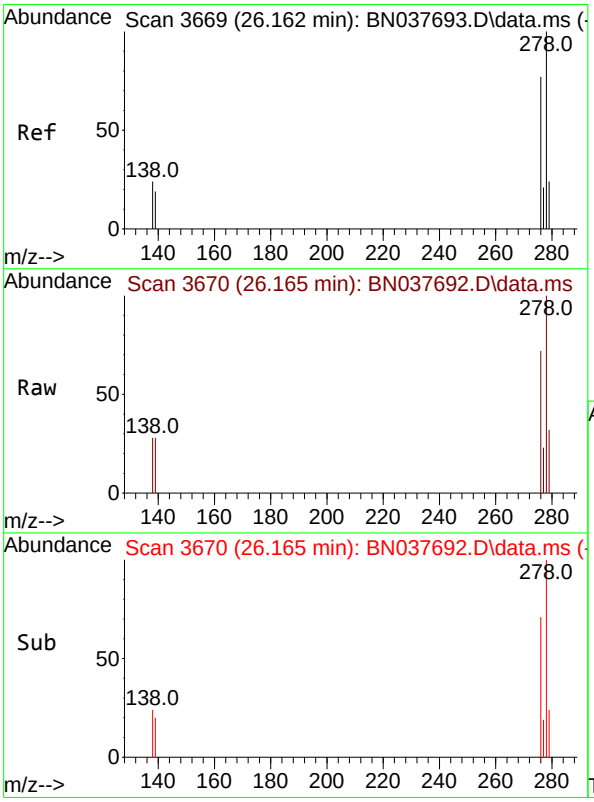

#39
Benzo(a)pyrene
Concen: 0.186 ng
RT: 23.651 min Scan# 2
Delta R.T. 0.003 min
Lab File: BN037692.D
Acq: 11 Sep 2025 10:32

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

Tgt Ion:252 Resp: 5489

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 29.6 | 20.8 | 31.2 |
| 125 | 21.1 | 13.9 | 20.9# |

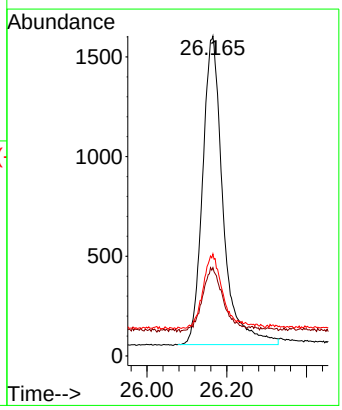


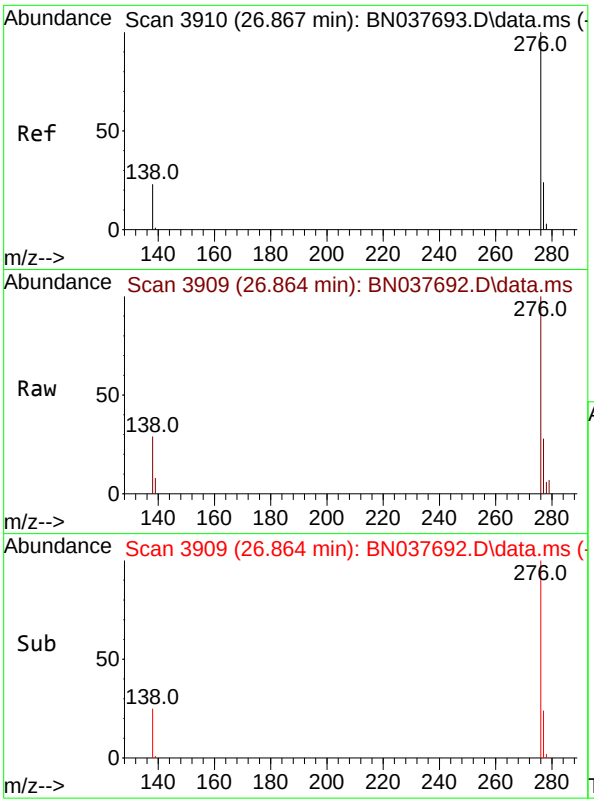




#40
Dibenzo(a,h)anthracene
Concen: 0.175 ng
RT: 26.165 min Scan# 3670
Delta R.T. 0.003 min
Lab File: BN037692.D
Acq: 11 Sep 2025 10:32

Tgt Ion:278 Resp: 5503

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 278 | 100 | | |
| 139 | 27.6 | 17.8 | 26.6# |
| 279 | 31.9 | 22.0 | 33.0 |



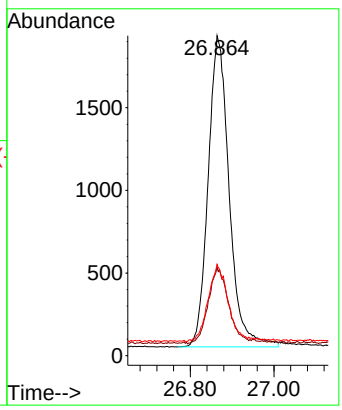



#41
Benzo(g,h,i)perylene
Concen: 0.186 ng
RT: 26.864 min Scan# 3
Delta R.T. -0.003 min
Lab File: BN037692.D
Acq: 11 Sep 2025 10:32

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

Tgt Ion:276 Resp: 6566

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 276 | 100 | | |
| 277 | 27.6 | 20.6 | 31.0 |
| 138 | 28.6 | 20.2 | 30.2 |



Quantitation Report (Not Reviewed)

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN091825\
Data File : BN037792.D
Acq On : 19 Sep 2025 00:16
Operator : RC/JU
Sample : PB169693BS
Misc :
ALS Vial : 18 Sample Multiplier: 1

**Instrument :**
BNA_N
**ClientSampleId :**
PB169693BS

Quant Time: Sep 19 04:12:55 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN091125.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Sep 11 14:20:01 2025
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) 1,4-Dichlorobenzene-d4 | 7.833 | 152 | 7441 | 0.400 | ng | 0.00 |
| 7) Naphthalene-d8 | 10.637 | 136 | 19392 | 0.400 | ng | -0.01 |
| 13) Acenaphthene-d10 | 14.484 | 164 | 8149 | 0.400 | ng | -0.01 |
| 19) Phenanthrene-d10 | 17.235 | 188 | 12386 | 0.400 | ng | # 0.00 |
| 29) Chrysene-d12 | 21.411 | 240 | 10095 | 0.400 | ng | 0.00 |
| 35) Perylene-d12 | 23.738 | 264 | 10200 | 0.400 | ng | #-0.01 |
| System Monitoring Compounds | | | | | | |
| 4) 2-Fluorophenol | 5.399 | 112 | 5555 | 0.325 | ng | 0.00 |
| 5) Phenol-d6 | 6.980 | 99 | 6563 | 0.296 | ng | 0.00 |
| 8) Nitrobenzene-d5 | 8.982 | 82 | 5088 | 0.359 | ng | -0.01 |
| 11) 2-Methylnaphthalene-d10 | 12.232 | 152 | 7932 | 0.309 | ng | -0.01 |
| 14) 2,4,6-Tribromophenol | 15.982 | 330 | 674 | 0.317 | ng | 0.00 |
| 15) 2-Fluorobiphenyl | 13.105 | 172 | 12492 | 0.367 | ng | -0.01 |
| 27) Fluoranthene-d10 | 19.262 | 212 | 9050 | 0.291 | ng | 0.00 |
| 31) Terphenyl-d14 | 19.861 | 244 | 6591 | 0.322 | ng | 0.00 |
| Target Compounds | | | | | | Qvalue |
| 2) 1,4-Dioxane | 3.304 | 88 | 2366 | 0.305 | ng | # 85 |
| 3) n-Nitrosodimethylamine | 3.600 | 42 | 3300 | 0.326 | ng | # 90 |
| 6) bis(2-Chloroethyl)ether | 7.248 | 93 | 6941 | 0.351 | ng | 100 |
| 9) Naphthalene | 10.680 | 128 | 17810 | 0.336 | ng | 99 |
| 10) Hexachlorobutadiene | 10.989 | 225 | 3379 | 0.352 | ng | # 99 |
| 12) 2-Methylnaphthalene | 12.303 | 142 | 9820 | 0.299 | ng | 99 |
| 16) Acenaphthylene | 14.206 | 152 | 13377 | 0.358 | ng | 99 |
| 17) Acenaphthene | 14.548 | 154 | 8509 | 0.337 | ng | 99 |
| 18) Fluorene | 15.535 | 166 | 9452 | 0.309 | ng | 99 |
| 20) 4,6-Dinitro-2-methylph... | 15.609 | 198 | 305 | 0.266 | ng | # 88 |
| 21) 4-Bromophenyl-phenylether | 16.428 | 248 | 2895 | 0.358 | ng | # 92 |
| 22) Hexachlorobenzene | 16.540 | 284 | 3601 | 0.388 | ng | 98 |
| 23) Atrazine | 16.689 | 200 | 1710 | 0.333 | ng | # 94 |
| 24) Pentachlorophenol | 16.888 | 266 | 1388 | 0.515 | ng | 98 |
| 25) Phenanthrene | 17.273 | 178 | 13505 | 0.346 | ng | 100 |
| 26) Anthracene | 17.359 | 178 | 11748 | 0.340 | ng | 99 |
| 28) Fluoranthene | 19.294 | 202 | 12912 | 0.302 | ng | 100 |
| 30) Pyrene | 19.652 | 202 | 12854 | 0.325 | ng | 100 |
| 32) Benzo(a)anthracene | 21.393 | 228 | 12540 | 0.356 | ng | 100 |
| 33) Chrysene | 21.447 | 228 | 13567 | 0.359 | ng | 100 |
| 34) Bis(2-ethylhexyl)phtha... | 21.331 | 149 | 3708 | 0.355 | ng | 98 |
| 36) Indeno(1,2,3-cd)pyrene | 26.118 | 276 | 17423 | 0.407 | ng | 99 |
| 37) Benzo(b)fluoranthene | 23.034 | 252 | 14955 | 0.372 | ng | # 96 |
| 38) Benzo(k)fluoranthene | 23.034 | 252 | 14955 | 0.365 | ng | 96 |
| 39) Benzo(a)pyrene | 23.633 | 252 | 12714 | 0.395 | ng | # 94 |
| 40) Dibenzo(a,h)anthracene | 26.142 | 278 | 13475 | 0.394 | ng | 99 |
| 41) Benzo(g,h,i)perylene | 26.843 | 276 | 15272 | 0.398 | ng | 99 |

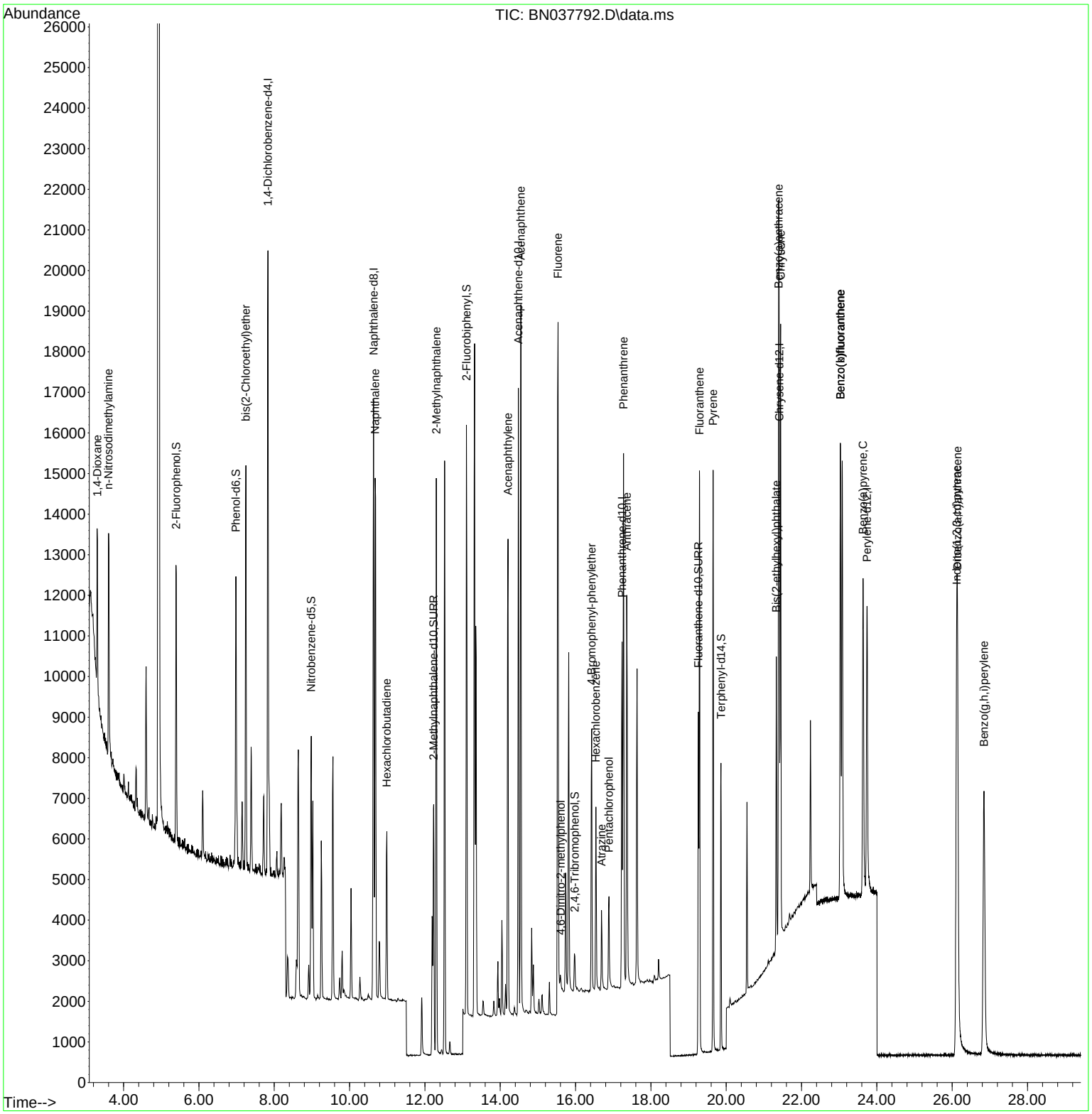
(#) = qualifier out of range (m) = manual integration (+) = signals summed

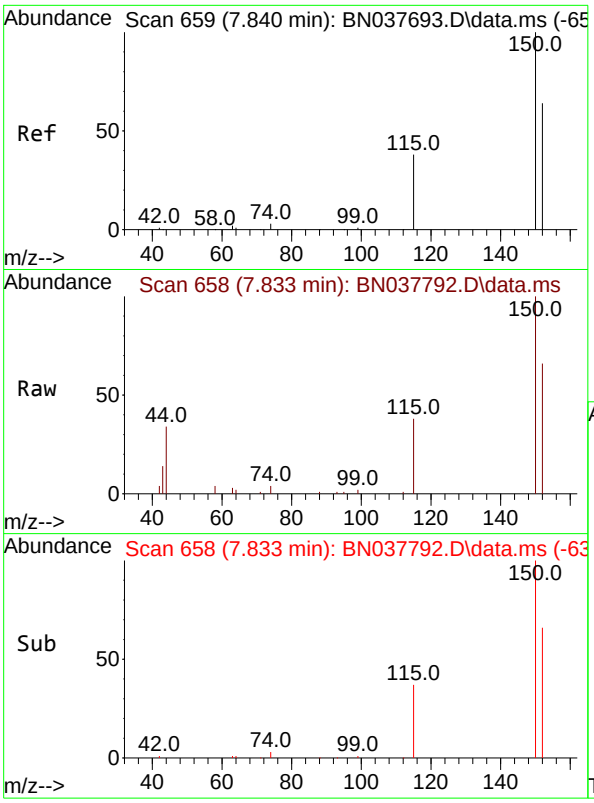
Quantitation Report (Not Reviewed)

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN091825\
Data File : BN037792.D
Acq On : 19 Sep 2025 00:16
Operator : RC/JU
Sample : PB169693BS
Misc :
ALS Vial : 18 Sample Multiplier: 1

**Instrument :**
BNA_N
**ClientSampleId :**
PB169693BS

Quant Time: Sep 19 04:12:55 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN091125.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Sep 11 14:20:01 2025
Response via : Initial Calibration



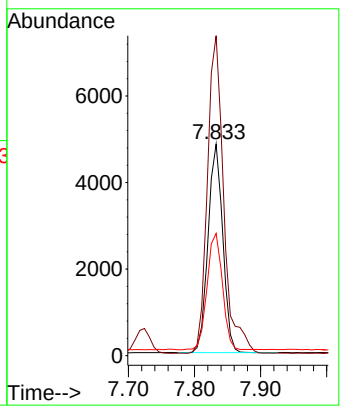


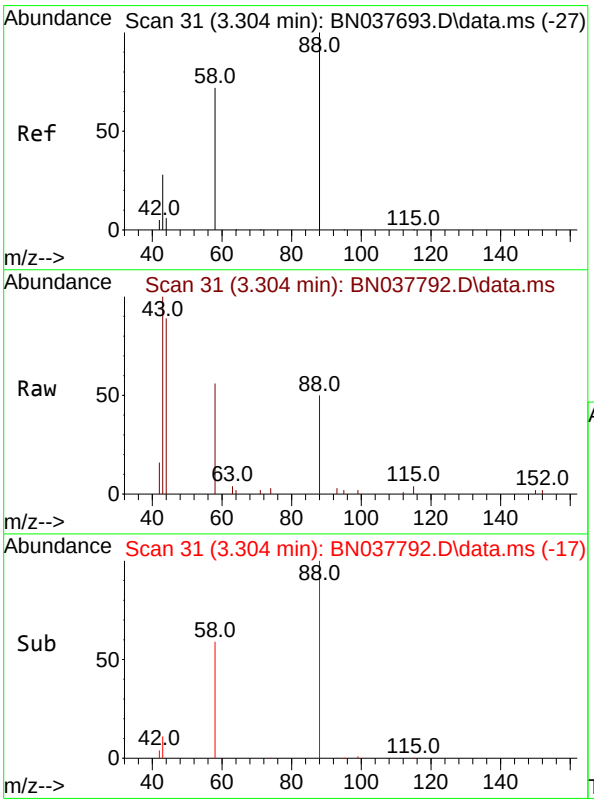

#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.833 min Scan# 6
Delta R.T. -0.007 min
Lab File: BN037792.D
Acq: 19 Sep 2025 00:16

**Instrument :**
BNA_N
**ClientSampleId :**
PB169693BS

Tgt Ion:152 Resp: 7441

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 150 | 151.3 | 124.5 | 186.7 |
| 115 | 57.8 | 49.2 | 73.8 |

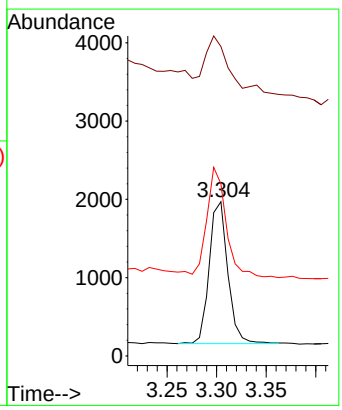


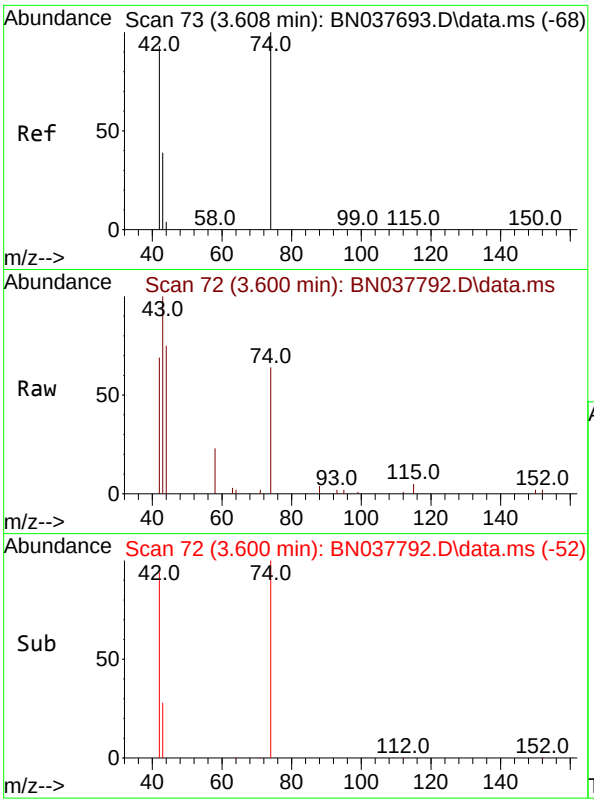




#2
1,4-Dioxane
Concen: 0.305 ng
RT: 3.304 min Scan# 31
Delta R.T. -0.000 min
Lab File: BN037792.D
Acq: 19 Sep 2025 00:16

Tgt Ion: 88 Resp: 2366

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 88 | 100 | | |
| 43 | 56.6 | 26.8 | 40.2# |
| 58 | 80.3 | 61.9 | 92.9 |



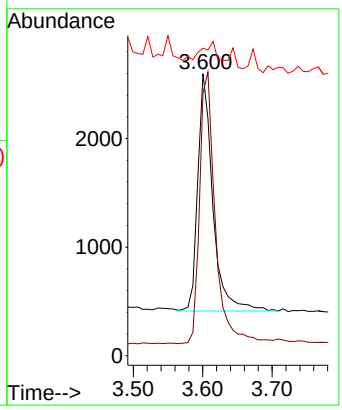


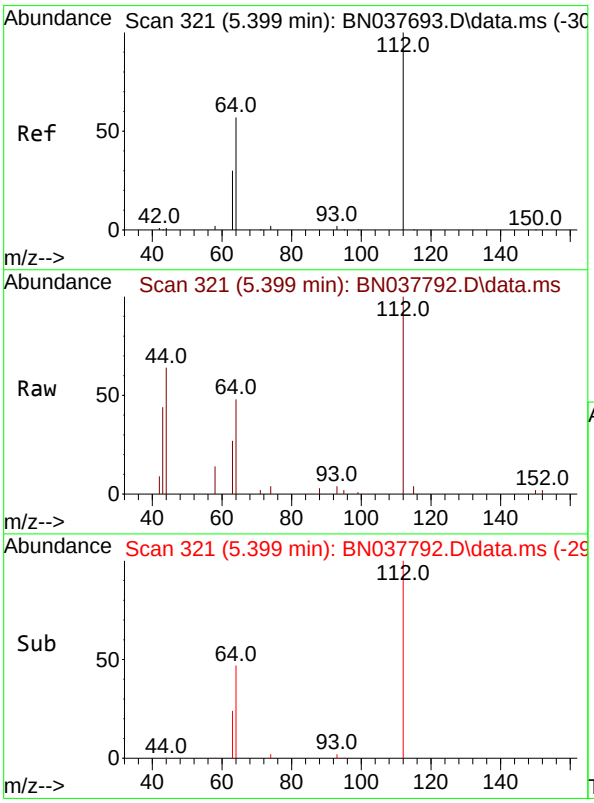

#3
n-Nitrosodimethylamine
Concen: 0.326 ng
RT: 3.600 min Scan# 7
Delta R.T. -0.007 min
Lab File: BN037792.D
Acq: 19 Sep 2025 00:16

**Instrument :**
BNA_N
**ClientSampleId :**
PB169693BS

Tgt Ion: 42 Resp: 3300

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 42 | 100 | | |
| 74 | 118.9 | 86.0 | 129.0 |
| 44 | 8.3 | 8.4 | 12.6# |

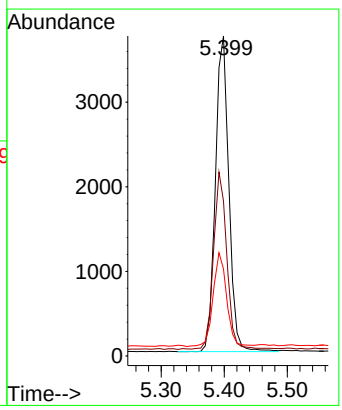


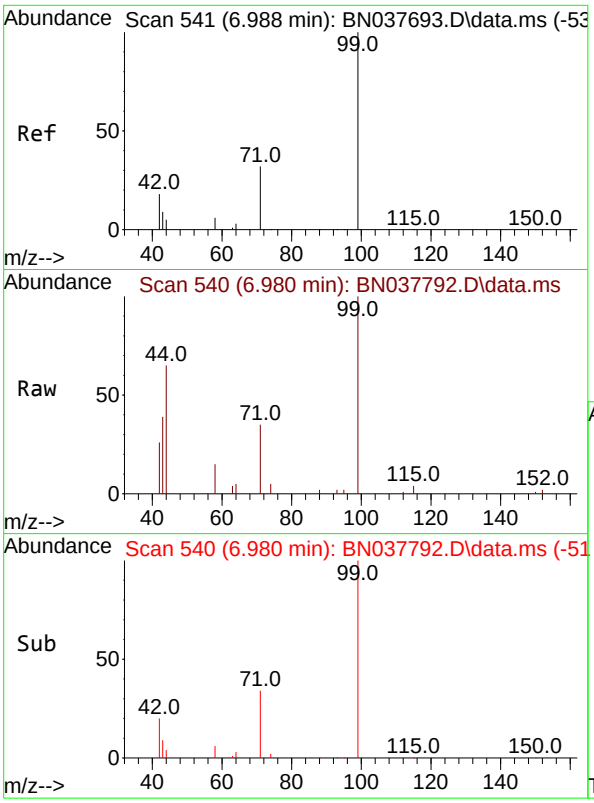




#4
2-Fluorophenol
Concen: 0.325 ng
RT: 5.399 min Scan# 321
Delta R.T. -0.000 min
Lab File: BN037792.D
Acq: 19 Sep 2025 00:16

Tgt Ion:112 Resp: 5555

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 112 | 100 | | |
| 64 | 55.5 | 44.9 | 67.3 |
| 63 | 29.6 | 24.7 | 37.1 |



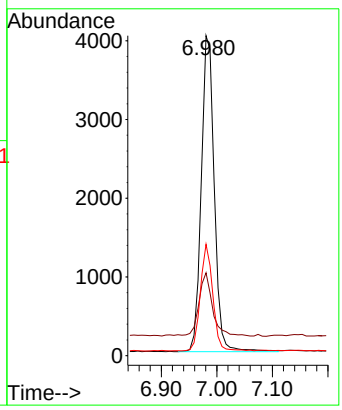


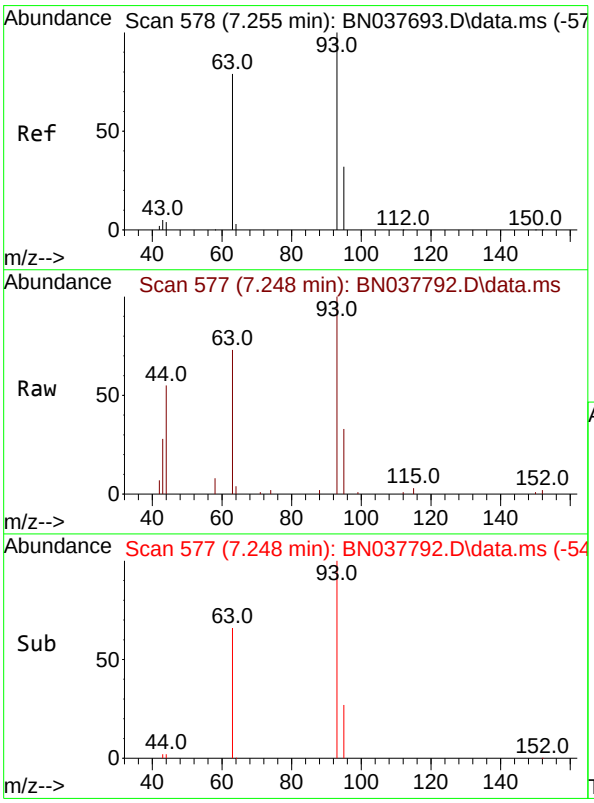

#5
Phenol-d6
Concen: 0.296 ng
RT: 6.980 min Scan# 54
Delta R.T. -0.007 min
Lab File: BN037792.D
Acq: 19 Sep 2025 00:16

**Instrument :**
BNA_N
**ClientSampleId :**
PB169693BS

Tgt Ion: 99 Resp: 6563

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 99 | 100 | | |
| 42 | 20.6 | 16.6 | 24.8 |
| 71 | 32.2 | 26.7 | 40.1 |

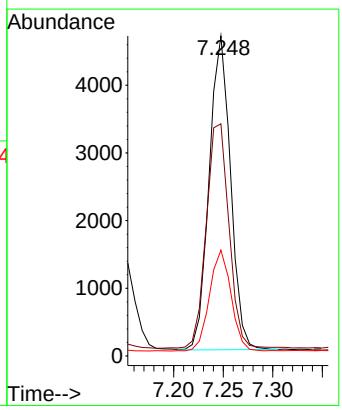


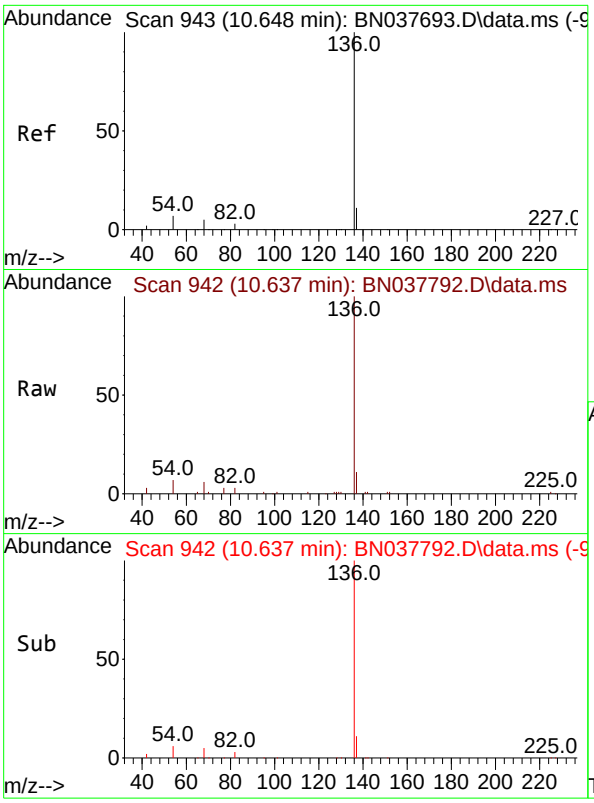




#6
bis(2-Chloroethyl)ether
Concen: 0.351 ng
RT: 7.248 min Scan# 577
Delta R.T. -0.007 min
Lab File: BN037792.D
Acq: 19 Sep 2025 00:16

Tgt Ion: 93 Resp: 6941

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 93 | 100 | | |
| 63 | 76.1 | 60.6 | 90.8 |
| 95 | 32.6 | 26.0 | 39.0 |



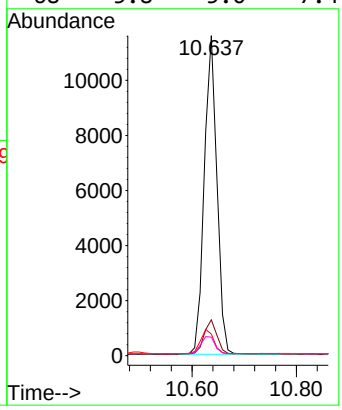


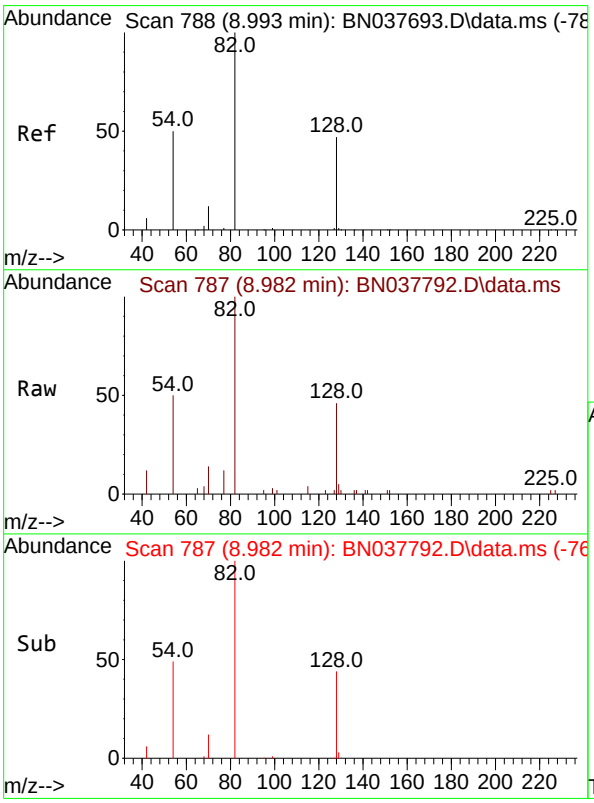

#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.637 min Scan# 94
Delta R.T. -0.011 min
Lab File: BN037792.D
Acq: 19 Sep 2025 00:16

**Instrument :**
BNA_N
**ClientSampleId :**
PB169693BS

Tgt Ion:136 Resp: 19392

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 136 | 100 | | |
| 137 | 11.2 | 9.1 | 13.7 |
| 54 | 6.8 | 6.3 | 9.5 |
| 68 | 5.8 | 5.0 | 7.4 |

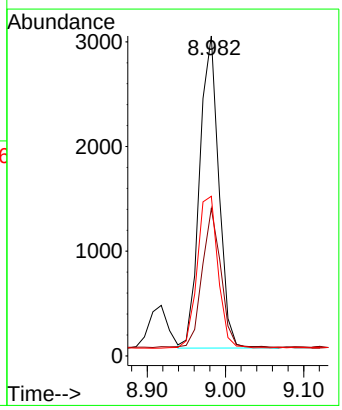


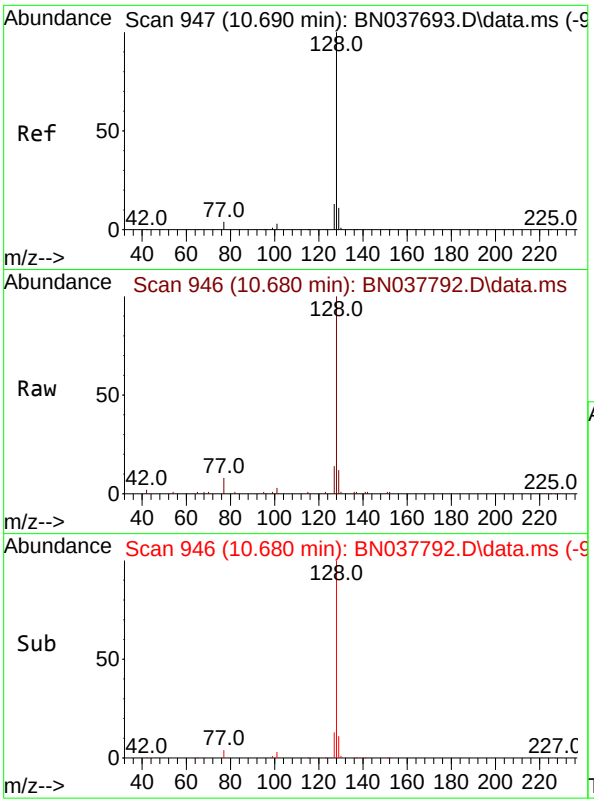




#8
Nitrobenzene-d5
Concen: 0.359 ng
RT: 8.982 min Scan# 787
Delta R.T. -0.011 min
Lab File: BN037792.D
Acq: 19 Sep 2025 00:16

Tgt Ion: 82 Resp: 5088

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 82 | 100 | | |
| 128 | 46.1 | 38.3 | 57.5 |
| 54 | 49.9 | 41.4 | 62.2 |



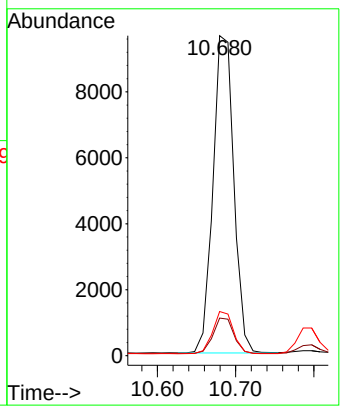


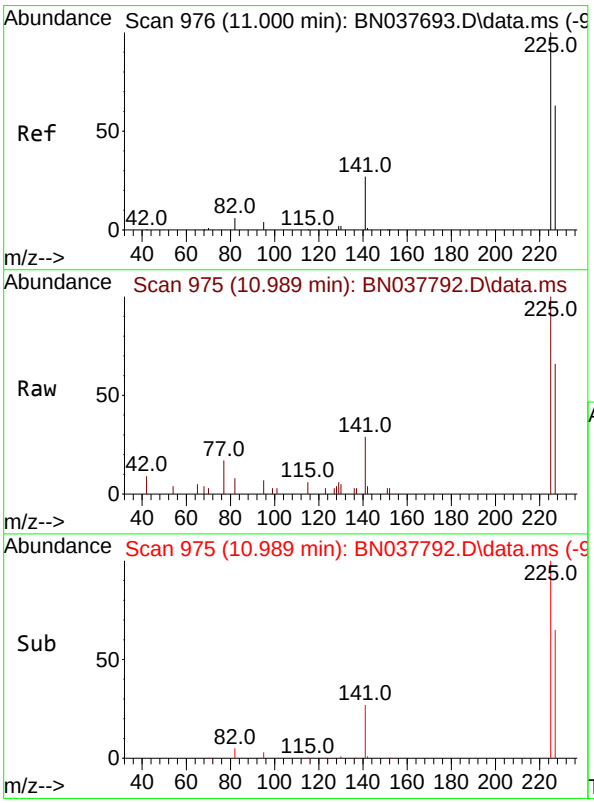

#9
Naphthalene
Concen: 0.336 ng
RT: 10.680 min Scan# 94
Delta R.T. -0.011 min
Lab File: BN037792.D
Acq: 19 Sep 2025 00:16

**Instrument :**
BNA_N
**ClientSampleId :**
PB169693BS

Tgt Ion:128 Resp: 17810

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 128 | 100 | | |
| 129 | 11.7 | 9.1 | 13.7 |
| 127 | 13.8 | 10.9 | 16.3 |

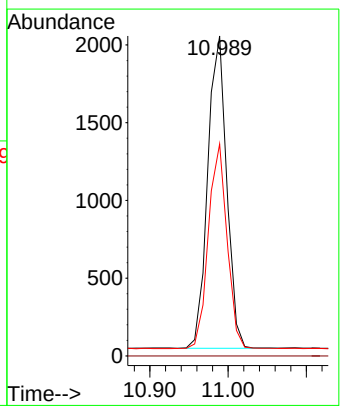


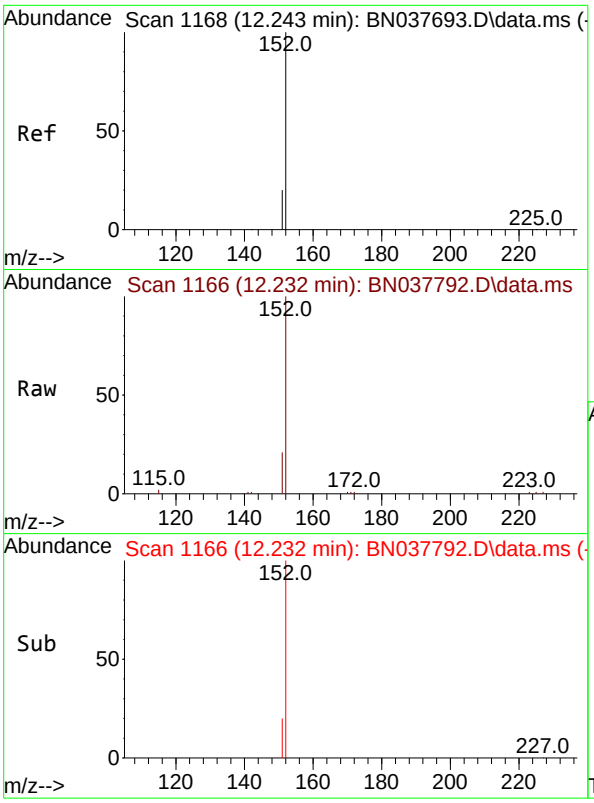




#10
Hexachlorobutadiene
Concen: 0.352 ng
RT: 10.989 min Scan# 975
Delta R.T. -0.011 min
Lab File: BN037792.D
Acq: 19 Sep 2025 00:16

Tgt Ion:225 Resp: 3379

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 225 | 100 | | |
| 223 | 0.0 | 0.0 | 0.0 |
| 227 | 64.5 | 50.9 | 76.3 |



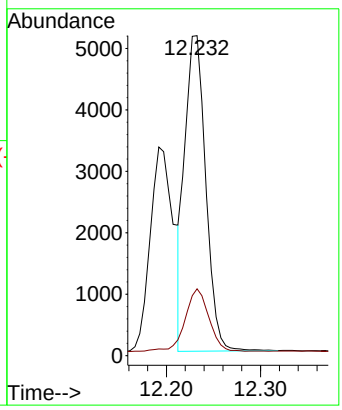


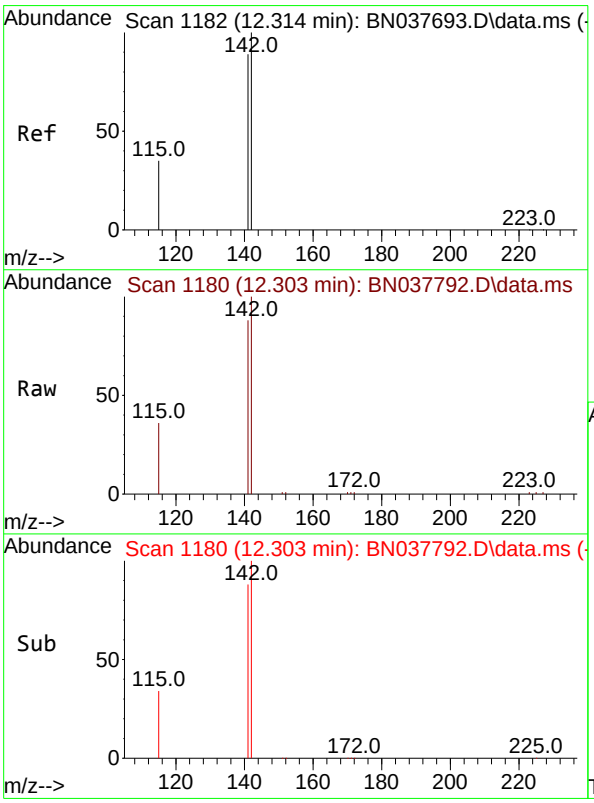

#11
2-Methylnaphthalene-d10
Concen: 0.309 ng
RT: 12.232 min Scan# 11
Delta R.T. -0.010 min
Lab File: BN037792.D
Acq: 19 Sep 2025 00:16

**Instrument :**
BNA_N
**ClientSampleId :**
PB169693BS

Tgt Ion:152 Resp: 7932

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 151 | 22.6 | 17.0 | 25.6 |

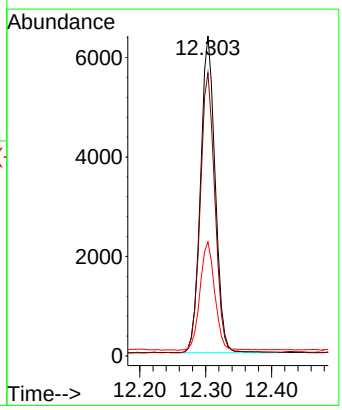


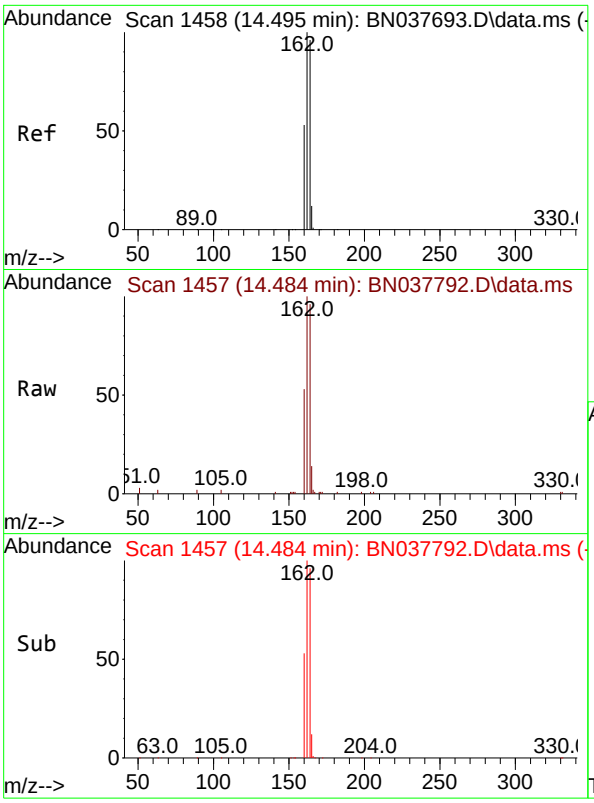




#12
2-Methylnaphthalene
Concen: 0.299 ng
RT: 12.303 min Scan# 1180
Delta R.T. -0.010 min
Lab File: BN037792.D
Acq: 19 Sep 2025 00:16

Tgt Ion:142 Resp: 9820

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 142 | 100 | | |
| 141 | 88.5 | 71.6 | 107.4 |
| 115 | 35.7 | 28.6 | 43.0 |



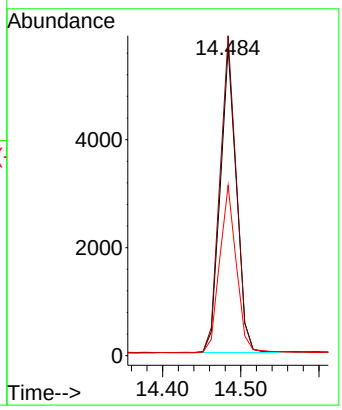


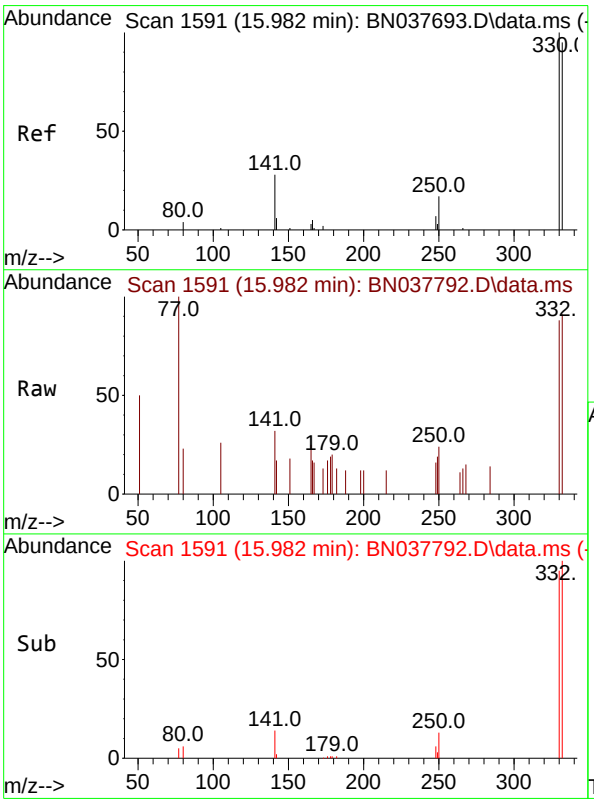

#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.484 min Scan# 14
Delta R.T. -0.011 min
Lab File: BN037792.D
Acq: 19 Sep 2025 00:16

**Instrument :**
BNA_N
**ClientSampleId :**
PB169693BS

Tgt Ion:164 Resp: 8149

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 164 | 100 | | |
| 162 | 103.7 | 83.1 | 124.7 |
| 160 | 55.2 | 44.3 | 66.5 |

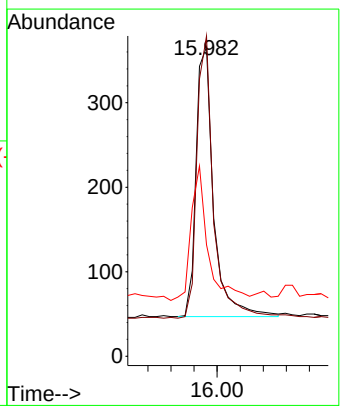


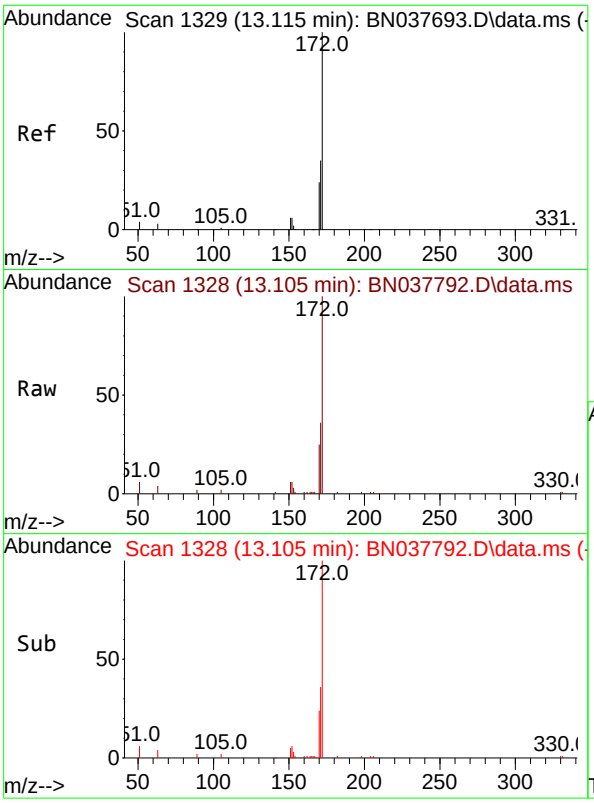




#14
2,4,6-Tribromophenol
Concen: 0.317 ng
RT: 15.982 min Scan# 1591
Delta R.T. -0.000 min
Lab File: BN037792.D
Acq: 19 Sep 2025 00:16

Tgt Ion:330 Resp: 674

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 330 | 100 | | |
| 332 | 99.4 | 75.3 | 112.9 |
| 141 | 47.6 | 35.0 | 52.4 |



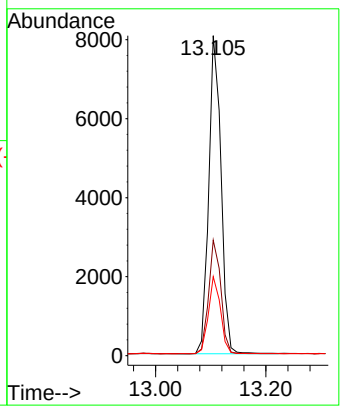


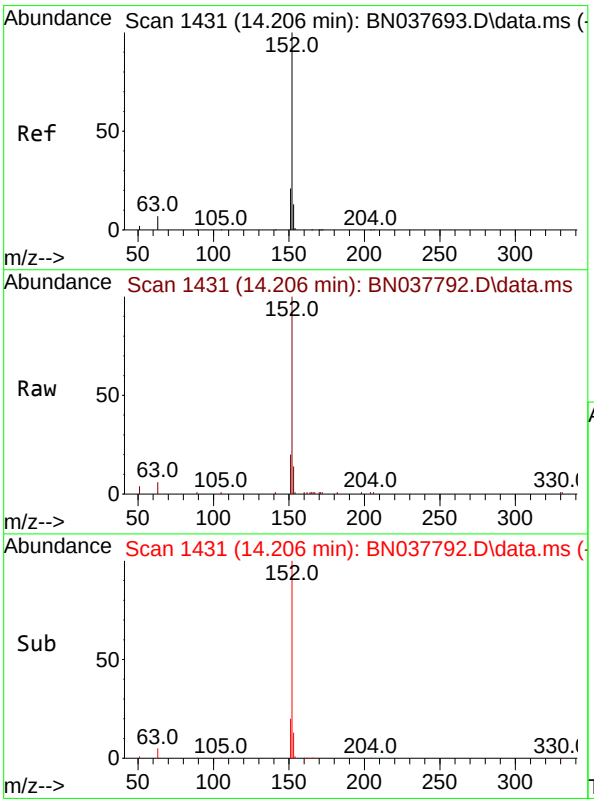

#15
2-Fluorobiphenyl
Concen: 0.367 ng
RT: 13.105 min Scan# 1
Delta R.T. -0.011 min
Lab File: BN037792.D
Acq: 19 Sep 2025 00:16

**Instrument :**
BNA_N
**ClientSampleId :**
PB169693BS

Tgt Ion:172 Resp: 12492

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 172 | 100 | | |
| 171 | 36.1 | 28.6 | 43.0 |
| 170 | 24.7 | 19.8 | 29.8 |

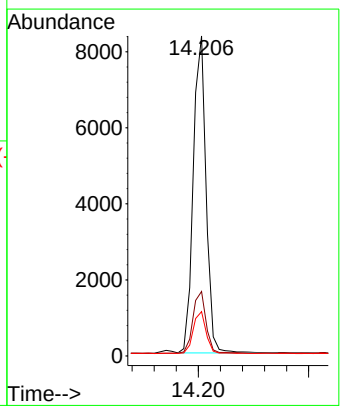


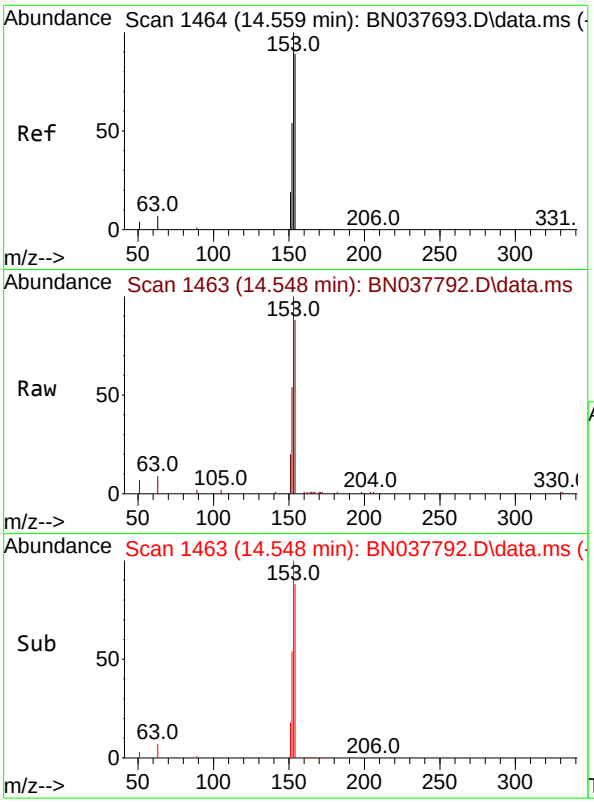




#16
Acenaphthylene
Concen: 0.358 ng
RT: 14.206 min Scan# 1431
Delta R.T. -0.000 min
Lab File: BN037792.D
Acq: 19 Sep 2025 00:16

Tgt Ion:152 Resp: 13377

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 151 | 20.1 | 16.2 | 24.2 |
| 153 | 13.4 | 10.4 | 15.6 |



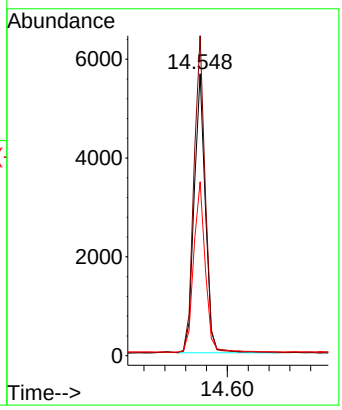


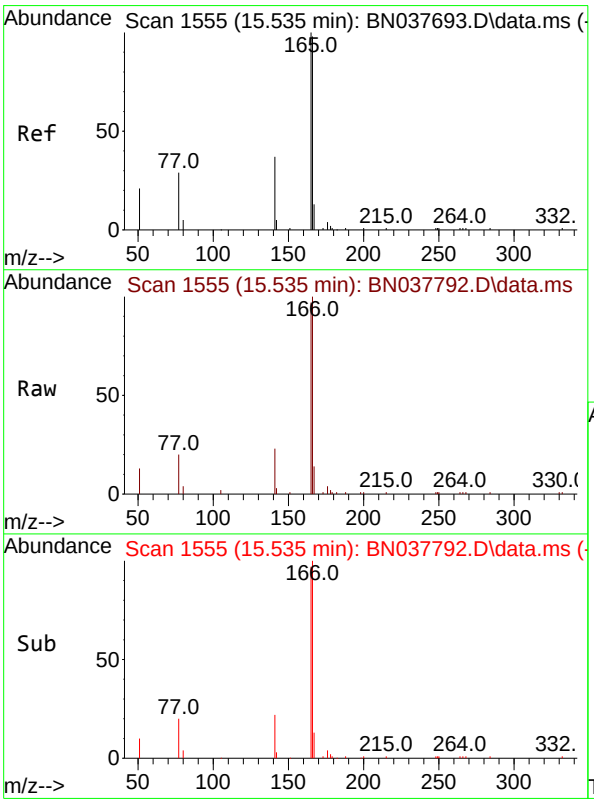

#17
Acenaphthene
Concen: 0.337 ng
RT: 14.548 min Scan# 14
Delta R.T. -0.011 min
Lab File: BN037792.D
Acq: 19 Sep 2025 00:16

**Instrument :**
BNA_N
**ClientSampleId :**
PB169693BS

Tgt Ion:154 Resp: 8509

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 154 | 100 | | |
| 153 | 113.0 | 89.8 | 134.8 |
| 152 | 62.9 | 50.2 | 75.2 |

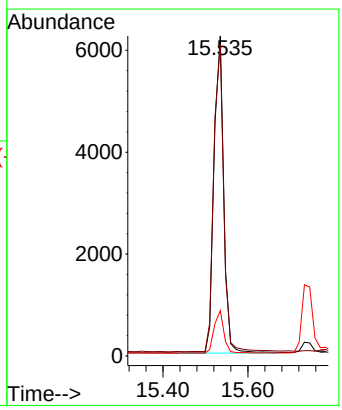


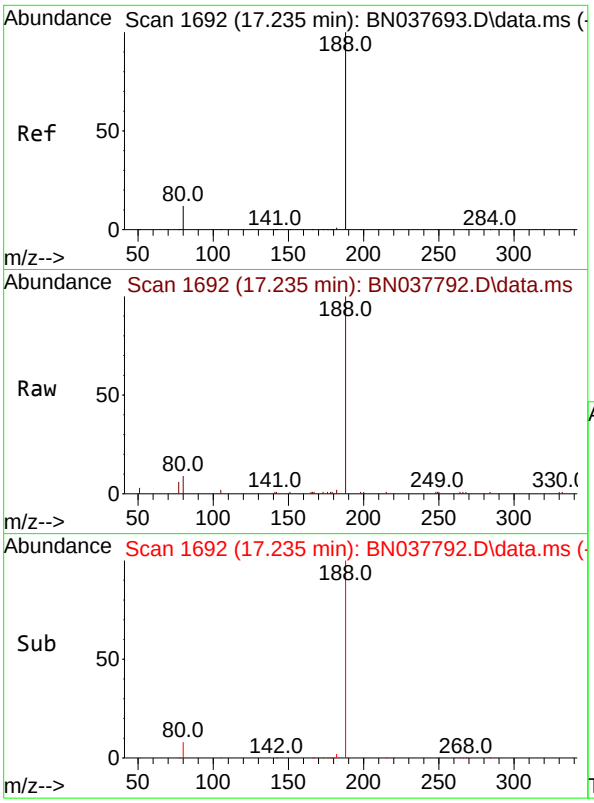




#18
Fluorene
Concen: 0.309 ng
RT: 15.535 min Scan# 1555
Delta R.T. -0.000 min
Lab File: BN037792.D
Acq: 19 Sep 2025 00:16

Tgt Ion:166 Resp: 9452

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 166 | 100 | | |
| 165 | 99.9 | 79.6 | 119.4 |
| 167 | 13.9 | 10.6 | 16.0 |



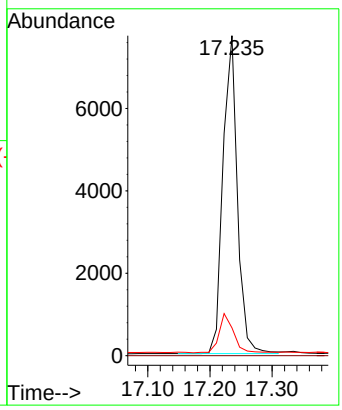


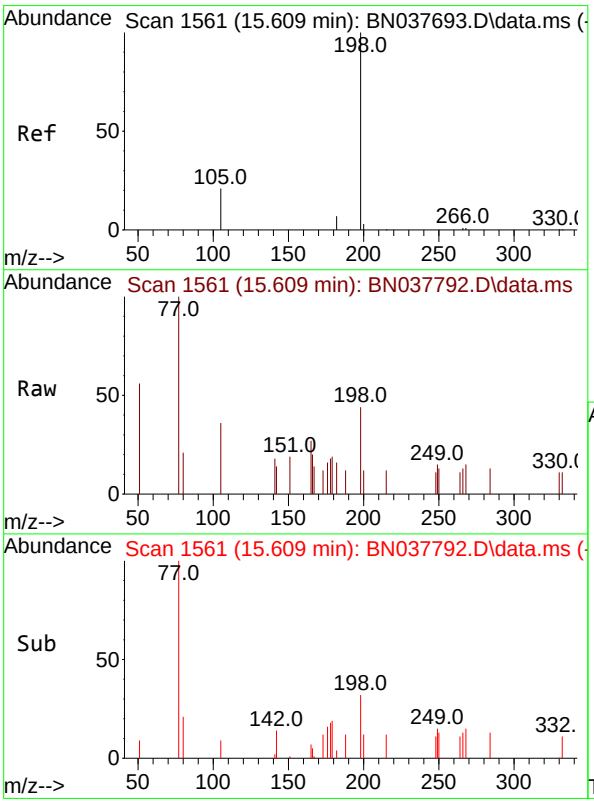

#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.235 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN037792.D
Acq: 19 Sep 2025 00:16

**Instrument :**
BNA_N
**ClientSampleId :**
PB169693BS

Tgt Ion:188 Resp: 12386

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 188 | 100 | | |
| 94 | 0.0 | 0.0 | 0.0 |
| 80 | 8.7 | 10.6 | 15.8# |

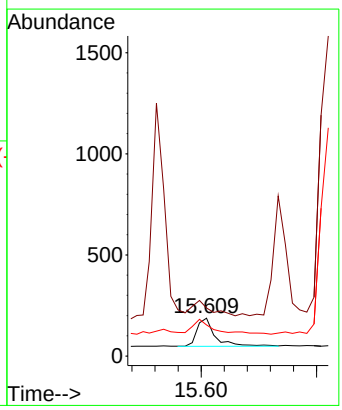


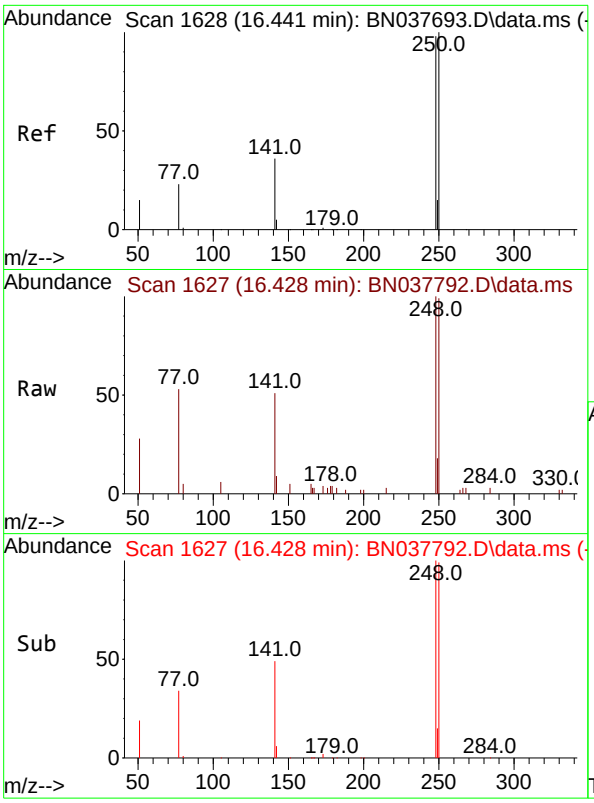




#20
4,6-Dinitro-2-methylphenol
Concen: 0.266 ng
RT: 15.609 min Scan# 1561
Delta R.T. 0.000 min
Lab File: BN037792.D
Acq: 19 Sep 2025 00:16

Tgt Ion:198 Resp: 305

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 198 | 100 | | |
| 51 | 127.3 | 95.1 | 142.7 |
| 105 | 82.4 | 53.8 | 80.6# |



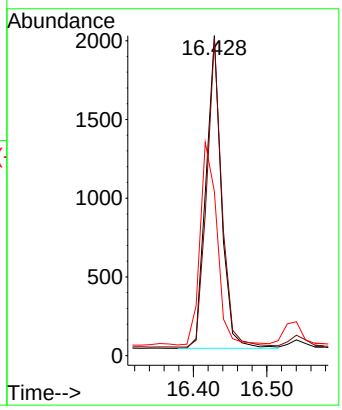


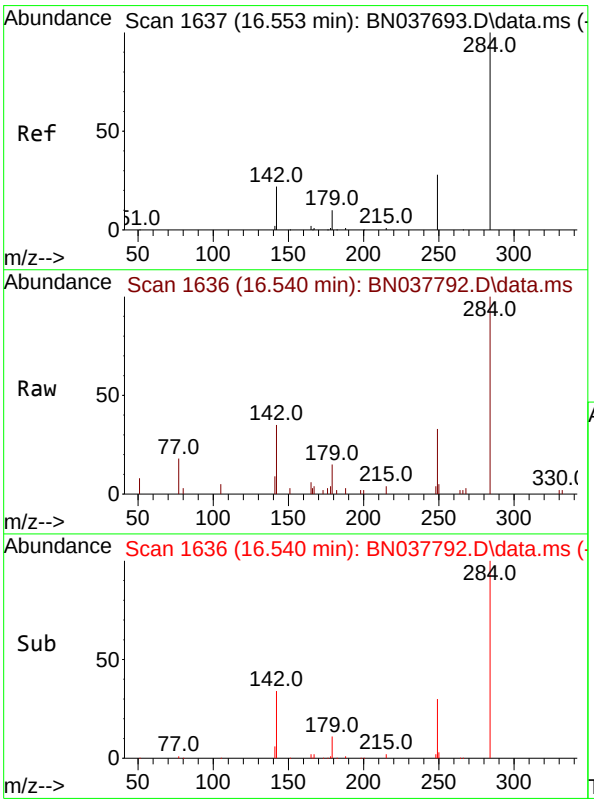

#21
4-Bromophenyl-phenylether
Concen: 0.358 ng
RT: 16.428 min Scan# 1(
Delta R.T. -0.013 min
Lab File: BN037792.D
Acq: 19 Sep 2025 00:16

**Instrument :**
BNA_N
**ClientSampleId :**
PB169693BS

Tgt Ion:248 Resp: 2895

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 248 | 100 | | |
| 250 | 99.0 | 81.5 | 122.3 |
| 141 | 51.3 | 30.8 | 46.2# |

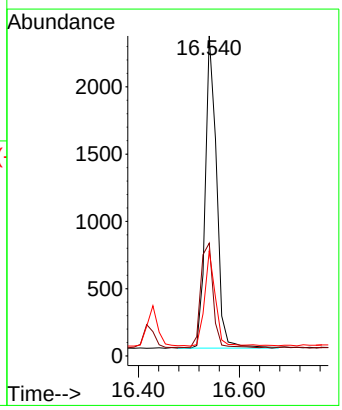


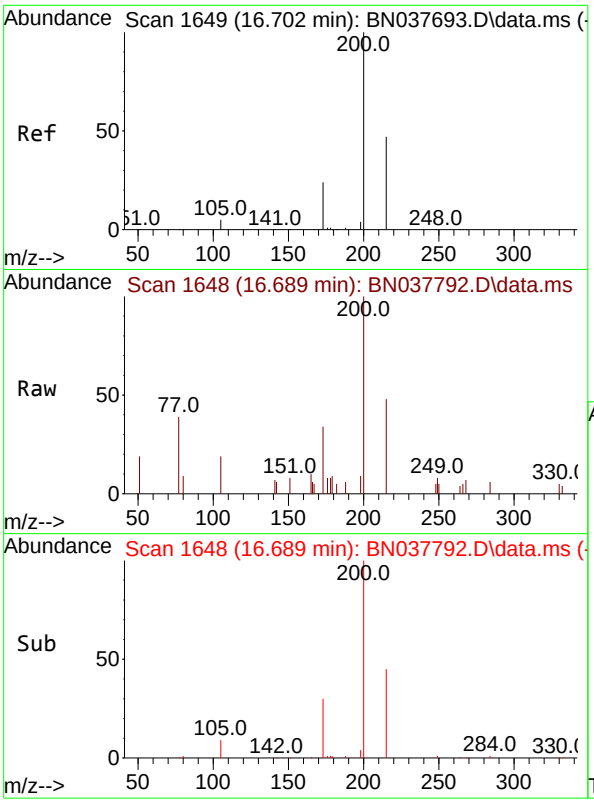




#22
Hexachlorobenzene
Concen: 0.388 ng
RT: 16.540 min Scan# 1636
Delta R.T. -0.013 min
Lab File: BN037792.D
Acq: 19 Sep 2025 00:16

Tgt Ion:284 Resp: 3601

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 284 | 100 | | |
| 142 | 37.9 | 30.9 | 46.3 |
| 249 | 28.9 | 24.8 | 37.2 |



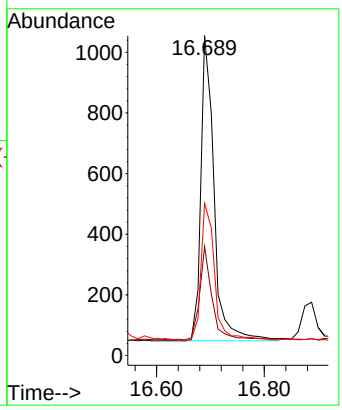


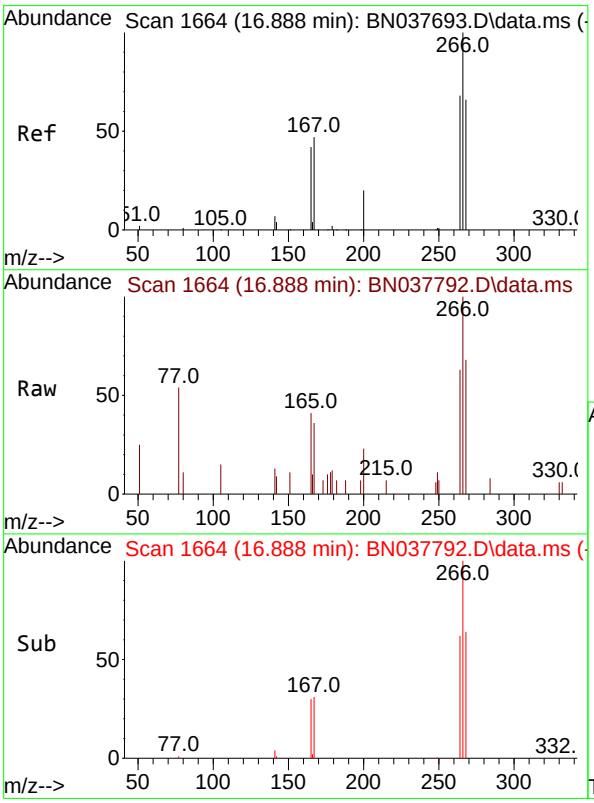

#23
Atrazine
Concen: 0.333 ng
RT: 16.689 min Scan# 1
Delta R.T. -0.013 min
Lab File: BN037792.D
Acq: 19 Sep 2025 00:16

**Instrument :**
BNA_N
**ClientSampleId :**
PB169693BS

Tgt Ion:200 Resp: 1710

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 200 | 100 | | |
| 173 | 34.0 | 21.4 | 32.2# |
| 215 | 47.6 | 39.2 | 58.8 |

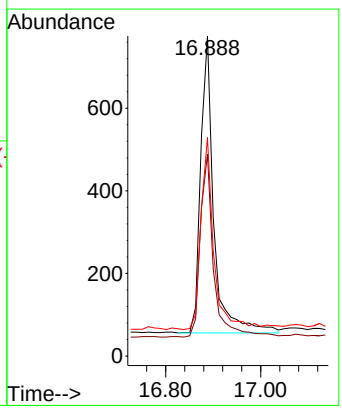


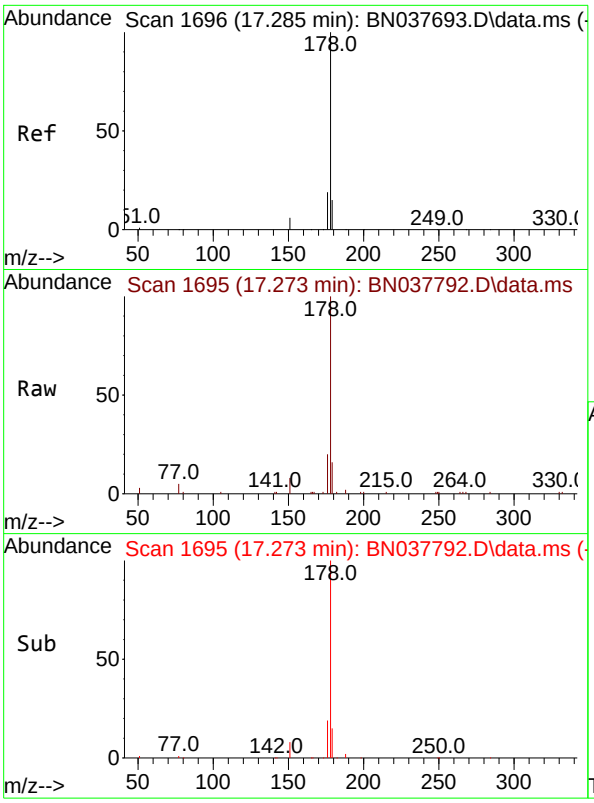




#24
Pentachlorophenol
Concen: 0.515 ng
RT: 16.888 min Scan# 1664
Delta R.T. -0.000 min
Lab File: BN037792.D
Acq: 19 Sep 2025 00:16

Tgt Ion:266 Resp: 1388

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 266 | 100 | | |
| 264 | 62.3 | 51.6 | 77.4 |
| 268 | 65.3 | 53.2 | 79.8 |



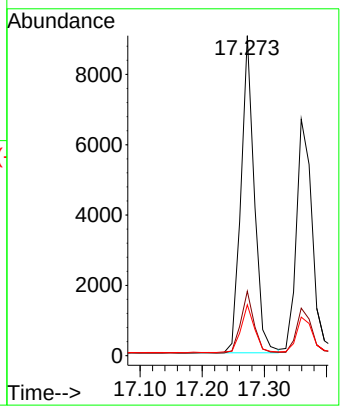


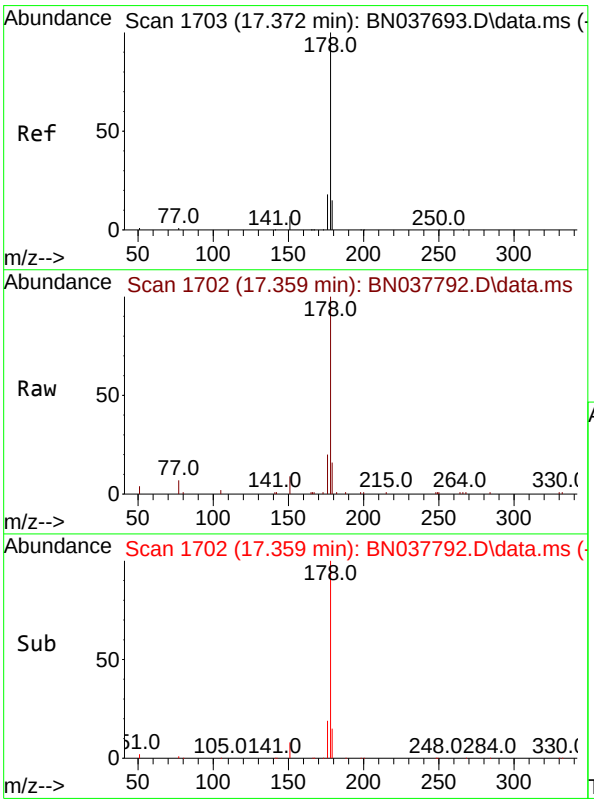

#25
Phenanthrene
Concen: 0.346 ng
RT: 17.273 min Scan# 1
Delta R.T. -0.013 min
Lab File: BN037792.D
Acq: 19 Sep 2025 00:16

**Instrument :**
BNA_N
**ClientSampleId :**
PB169693BS

Tgt Ion:178 Resp: 13505

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 178 | 100 | | |
| 176 | 19.4 | 15.3 | 22.9 |
| 179 | 15.3 | 12.2 | 18.2 |

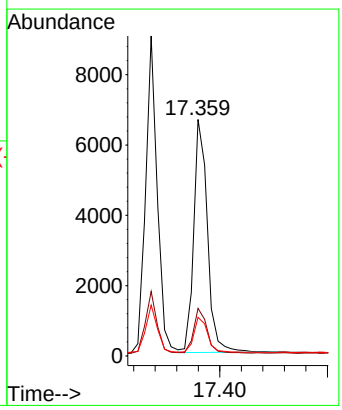


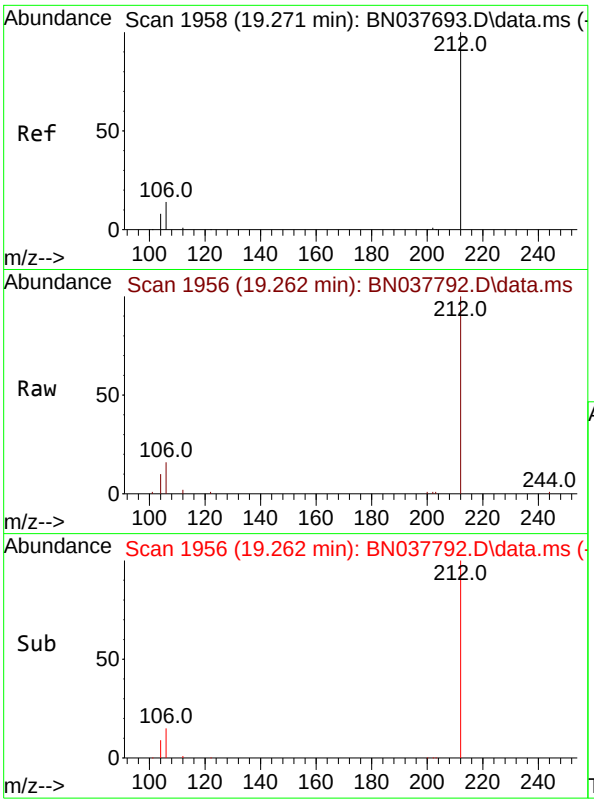




#26
Anthracene
Concen: 0.340 ng
RT: 17.359 min Scan# 1702
Delta R.T. -0.013 min
Lab File: BN037792.D
Acq: 19 Sep 2025 00:16

Tgt Ion:178 Resp: 11748

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 178 | 100 | | |
| 176 | 19.0 | 14.6 | 22.0 |
| 179 | 15.4 | 12.2 | 18.4 |



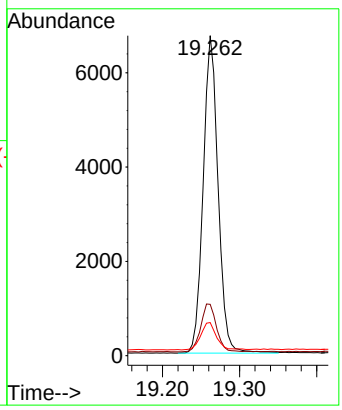


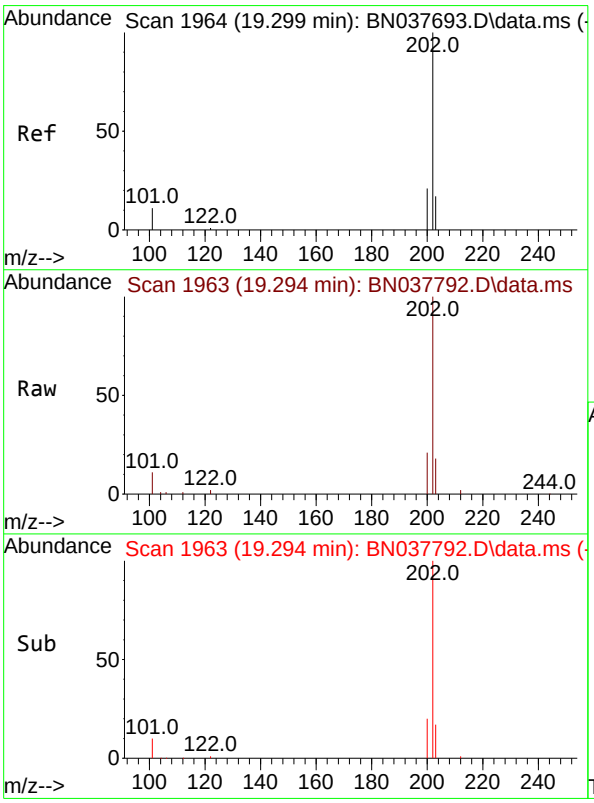

#27
Fluoranthene-d10
Concen: 0.291 ng
RT: 19.262 min Scan# 1
Delta R.T. -0.009 min
Lab File: BN037792.D
Acq: 19 Sep 2025 00:16

**Instrument :**
BNA_N
**ClientSampleId :**
PB169693BS

Tgt Ion:212 Resp: 9050

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 212 | 100 | | |
| 106 | 15.8 | 12.2 | 18.2 |
| 104 | 9.2 | 6.9 | 10.3 |

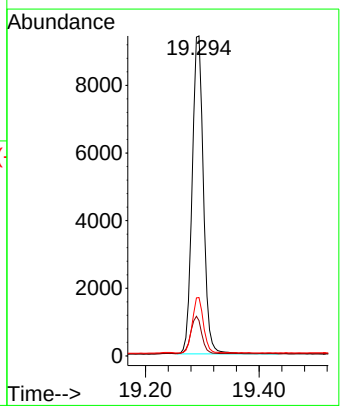


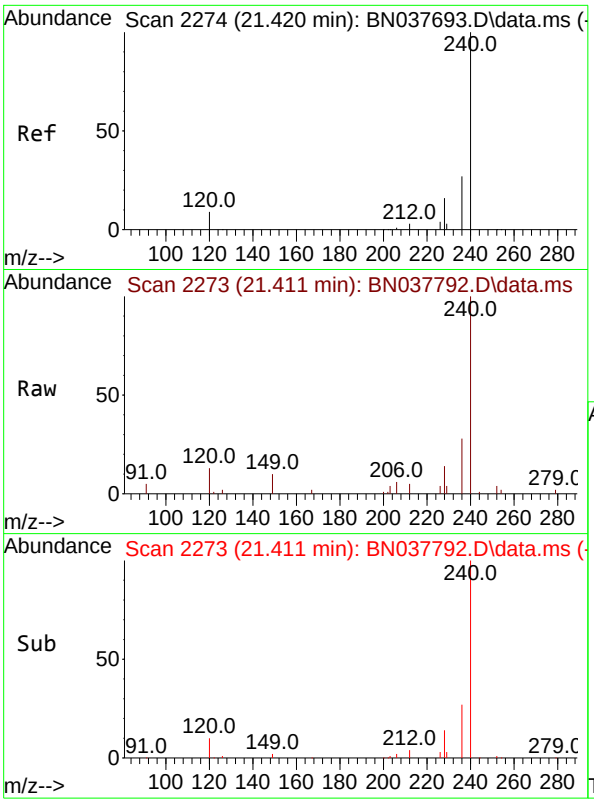




#28
Fluoranthene
Concen: 0.302 ng
RT: 19.294 min Scan# 1963
Delta R.T. -0.005 min
Lab File: BN037792.D
Acq: 19 Sep 2025 00:16

Tgt Ion:202 Resp: 12912

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 202 | 100 | | |
| 101 | 11.8 | 9.3 | 13.9 |
| 203 | 17.3 | 13.7 | 20.5 |



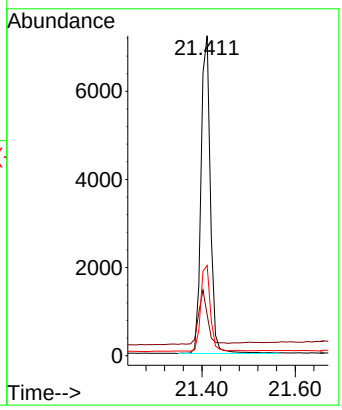


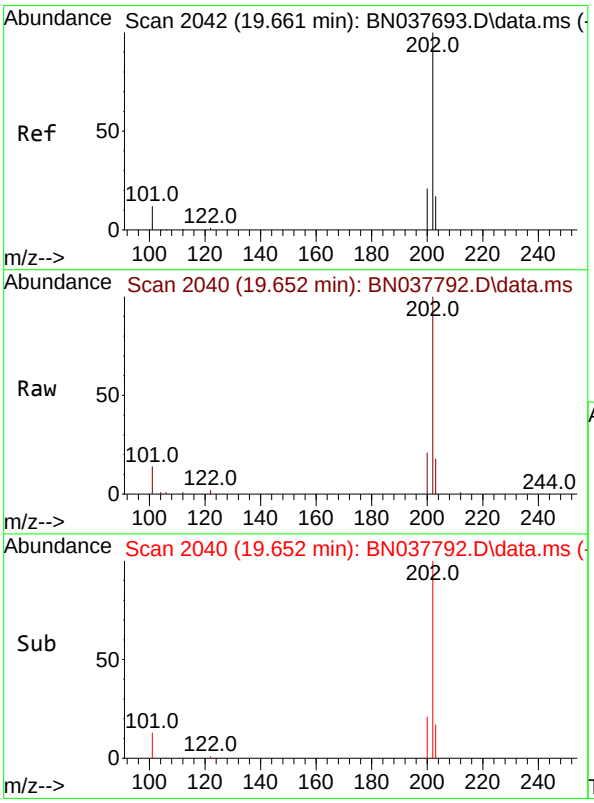

#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.411 min Scan# 2
Delta R.T. -0.009 min
Lab File: BN037792.D
Acq: 19 Sep 2025 00:16

**Instrument :**
BNA_N
**ClientSampleId :**
PB169693BS

Tgt Ion:240 Resp: 10095

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 240 | 100 | | |
| 120 | 12.7 | 9.2 | 13.8 |
| 236 | 28.2 | 22.6 | 33.8 |

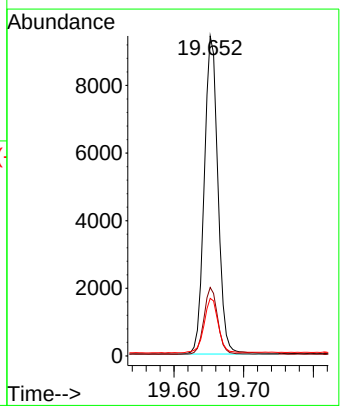


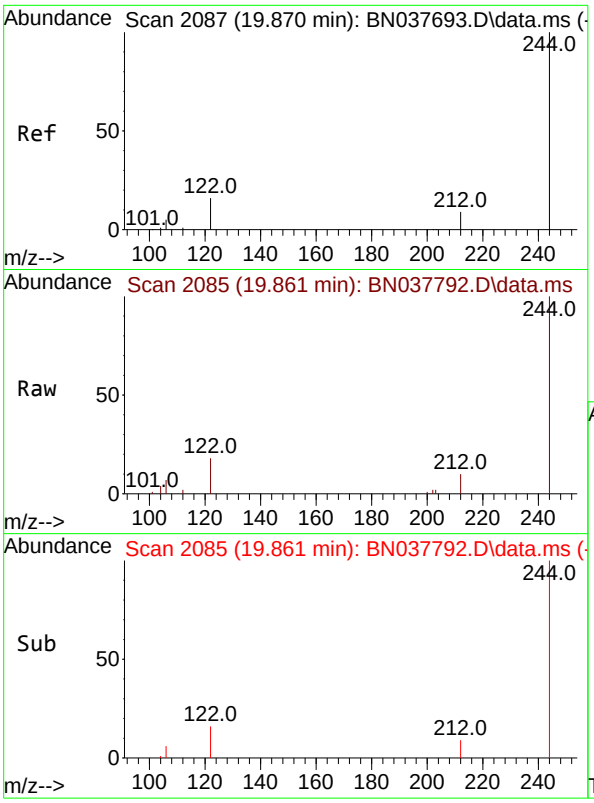




#30
Pyrene
Concen: 0.325 ng
RT: 19.652 min Scan# 2040
Delta R.T. -0.009 min
Lab File: BN037792.D
Acq: 19 Sep 2025 00:16

Tgt Ion:202 Resp: 12854

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 202 | 100 | | |
| 200 | 21.0 | 16.8 | 25.2 |
| 203 | 17.5 | 14.3 | 21.5 |



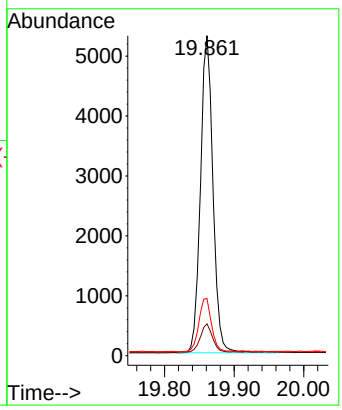


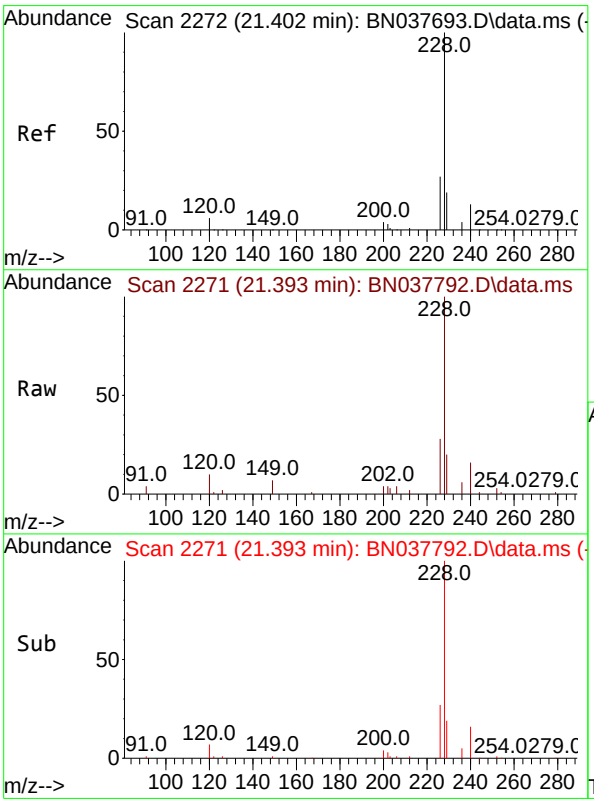

#31
Terphenyl-d14
Concen: 0.322 ng
RT: 19.861 min Scan# 2
Delta R.T. -0.009 min
Lab File: BN037792.D
Acq: 19 Sep 2025 00:16

**Instrument :**
BNA_N
**ClientSampleId :**
PB169693BS

Tgt Ion:244 Resp: 6591

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 244 | 100 | | |
| 212 | 10.0 | 7.5 | 11.3 |
| 122 | 17.8 | 13.2 | 19.8 |

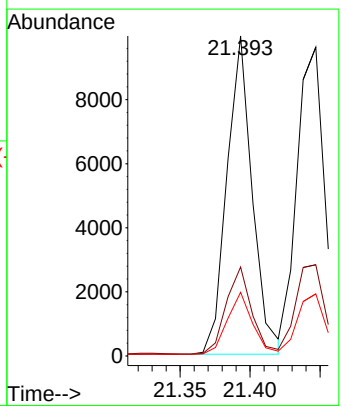


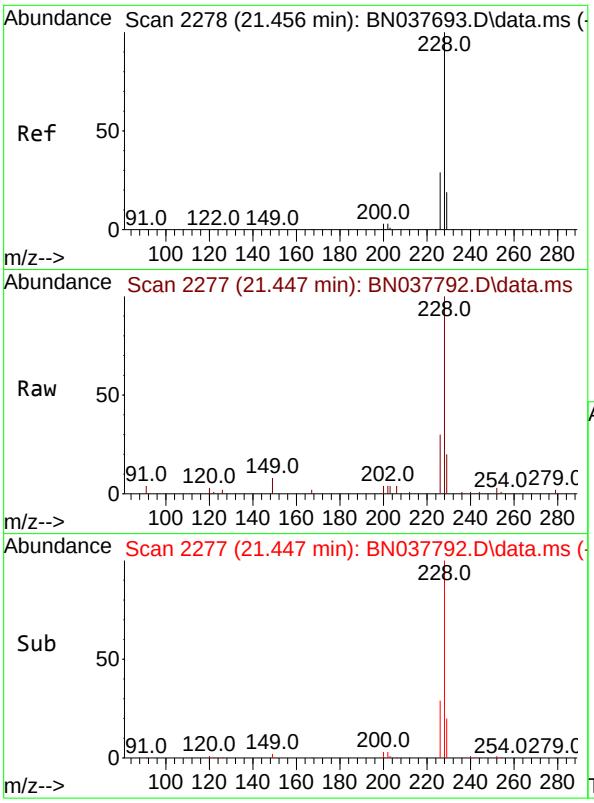




#32
Benzo(a)anthracene
Concen: 0.356 ng
RT: 21.393 min Scan# 2271
Delta R.T. -0.009 min
Lab File: BN037792.D
Acq: 19 Sep 2025 00:16

Tgt Ion:228 Resp: 12540

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 228 | 100 | | |
| 226 | 27.8 | 22.2 | 33.2 |
| 229 | 19.9 | 15.8 | 23.6 |



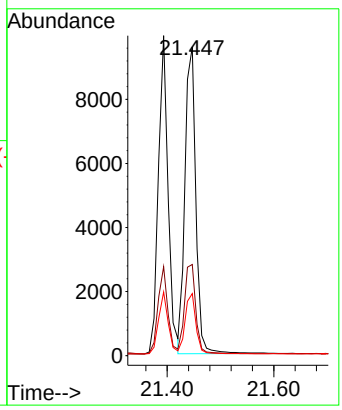


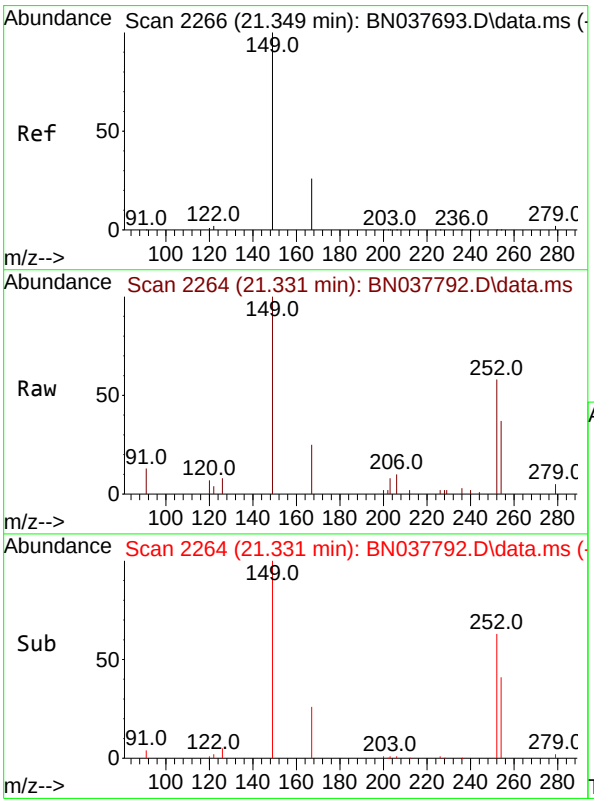

#33
Chrysene
Concen: 0.359 ng
RT: 21.447 min Scan# 2
Delta R.T. -0.009 min
Lab File: BN037792.D
Acq: 19 Sep 2025 00:16

**Instrument :**
BNA_N
**ClientSampleId :**
PB169693BS

Tgt Ion:228 Resp: 13567

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 228 | 100 | | |
| 226 | 29.5 | 23.5 | 35.3 |
| 229 | 20.1 | 15.9 | 23.9 |

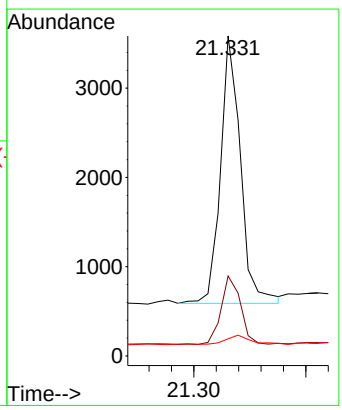


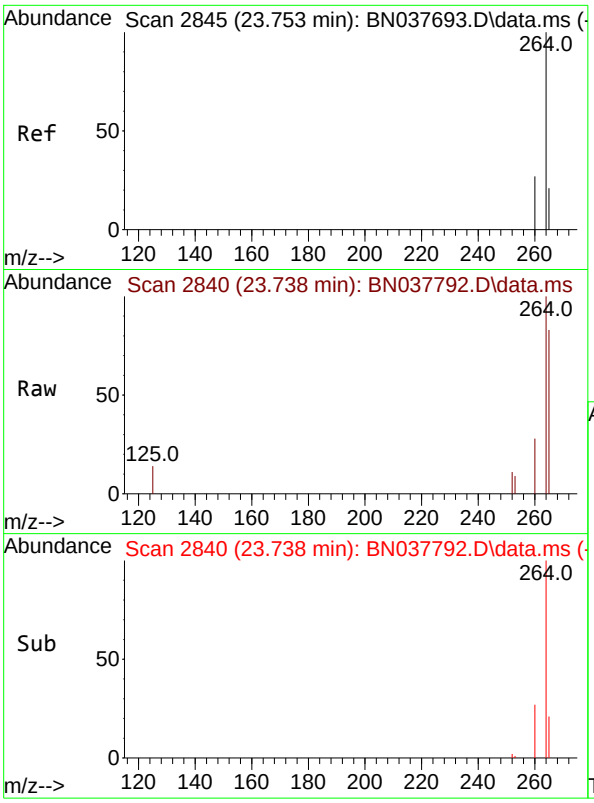




#34
Bis(2-ethylhexyl)phthalate
Concen: 0.355 ng
RT: 21.331 min Scan# 2264
Delta R.T. -0.018 min
Lab File: BN037792.D
Acq: 19 Sep 2025 00:16

Tgt Ion:149 Resp: 3708

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 149 | 100 | | |
| 167 | 25.0 | 20.8 | 31.2 |
| 279 | 4.3 | 3.3 | 4.9 |



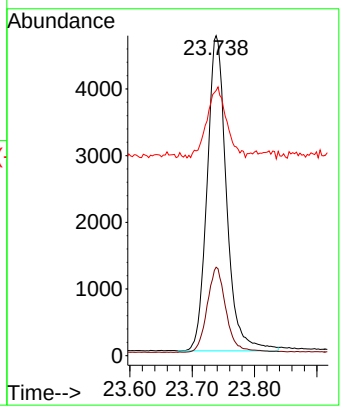


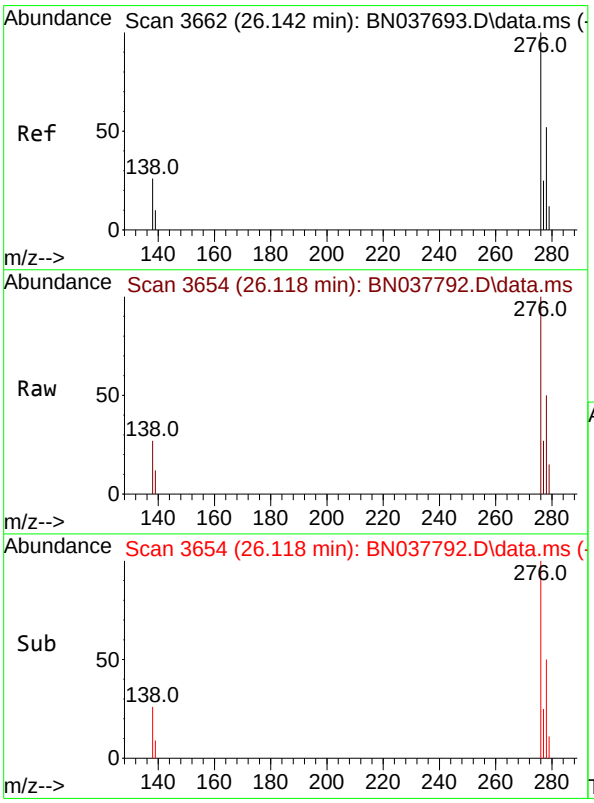

#35
Perylene-d12
Concen: 0.400 ng
RT: 23.738 min Scan# 2
Delta R.T. -0.015 min
Lab File: BN037792.D
Acq: 19 Sep 2025 00:16

**Instrument :**
BNA_N
**ClientSampleId :**
PB169693BS

Tgt Ion:264 Resp: 10200

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 264 | 100 | | |
| 260 | 27.6 | 21.8 | 32.8 |
| 265 | 82.9 | 39.4 | 59.2# |

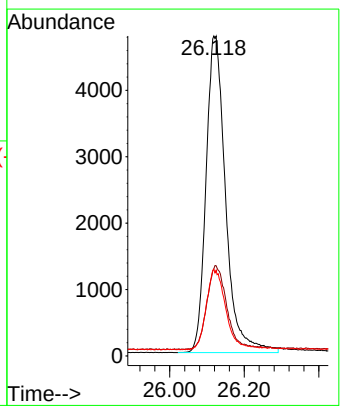


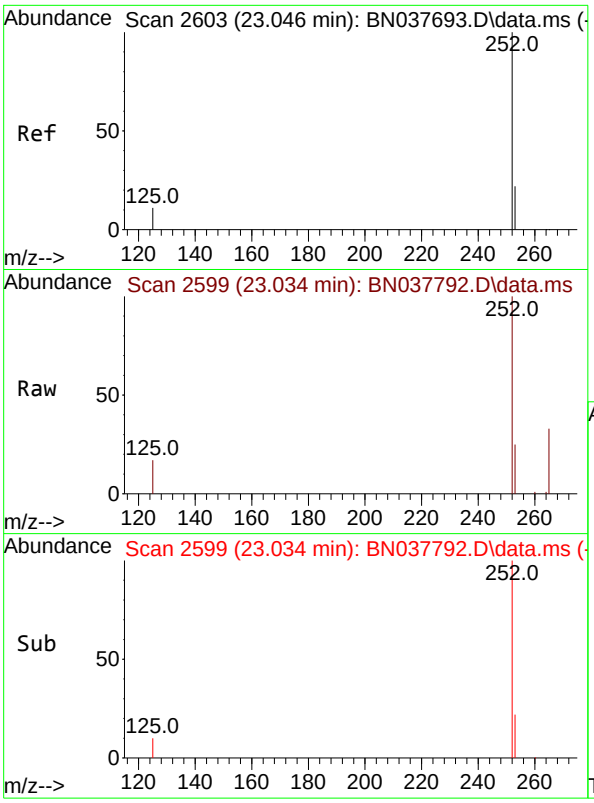




#36
Indeno(1,2,3-cd)pyrene
Concen: 0.407 ng
RT: 26.118 min Scan# 3654
Delta R.T. -0.024 min
Lab File: BN037792.D
Acq: 19 Sep 2025 00:16

Tgt Ion:276 Resp: 17423

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 276 | 100 | | |
| 138 | 27.0 | 21.9 | 32.9 |
| 277 | 25.2 | 20.1 | 30.1 |



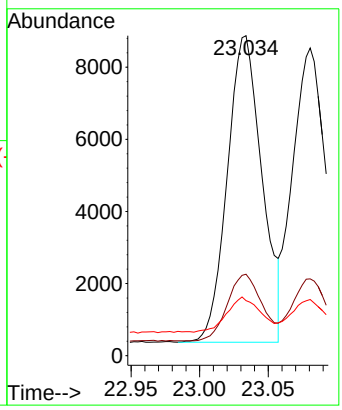


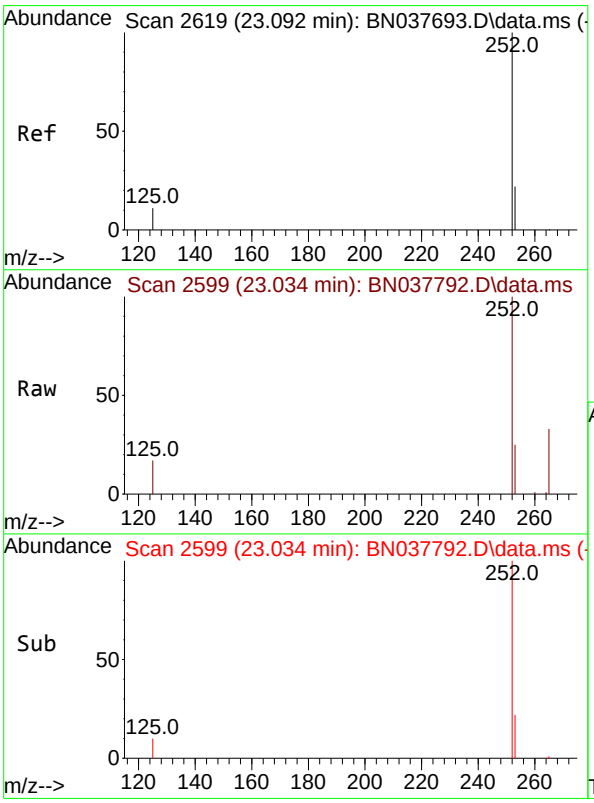

#37
Benzo(b)fluoranthene
Concen: 0.372 ng
RT: 23.034 min Scan# 2
Delta R.T. -0.012 min
Lab File: BN037792.D
Acq: 19 Sep 2025 00:16

**Instrument :**
BNA_N
**ClientSampleId :**
PB169693BS

Tgt Ion:252 Resp: 14955

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 25.5 | 19.4 | 29.2 |
| 125 | 17.2 | 11.2 | 16.8# |

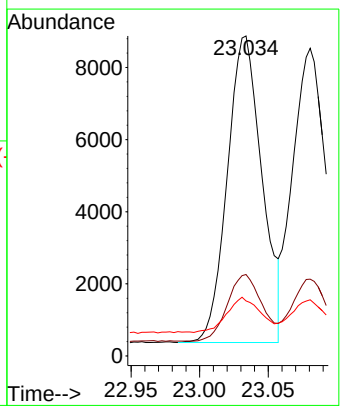


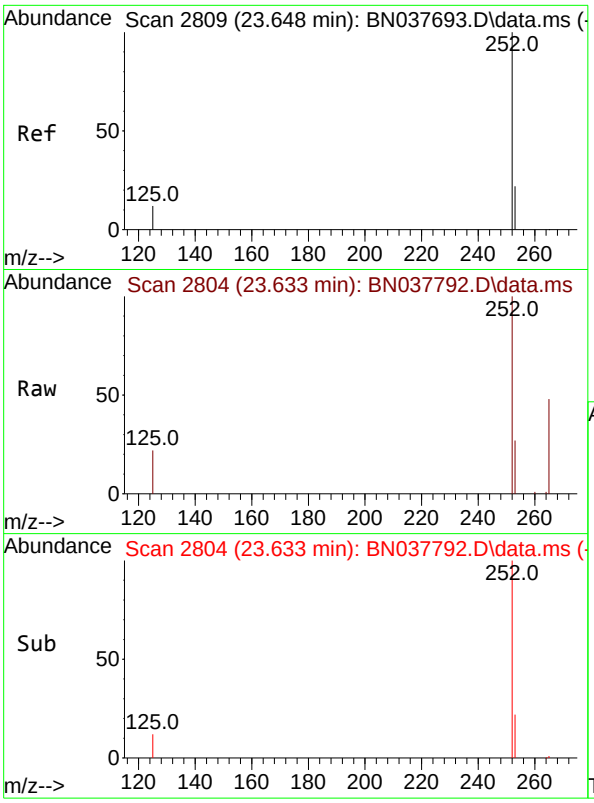




#38
Benzo(k)fluoranthene
Concen: 0.365 ng
RT: 23.034 min Scan# 2599
Delta R.T. -0.059 min
Lab File: BN037792.D
Acq: 19 Sep 2025 00:16

Tgt Ion:252 Resp: 14955

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 25.5 | 19.4 | 29.0 |
| 125 | 17.2 | 11.6 | 17.4 |



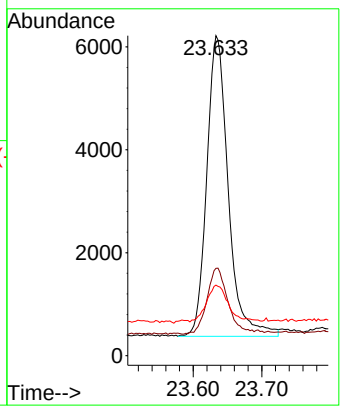


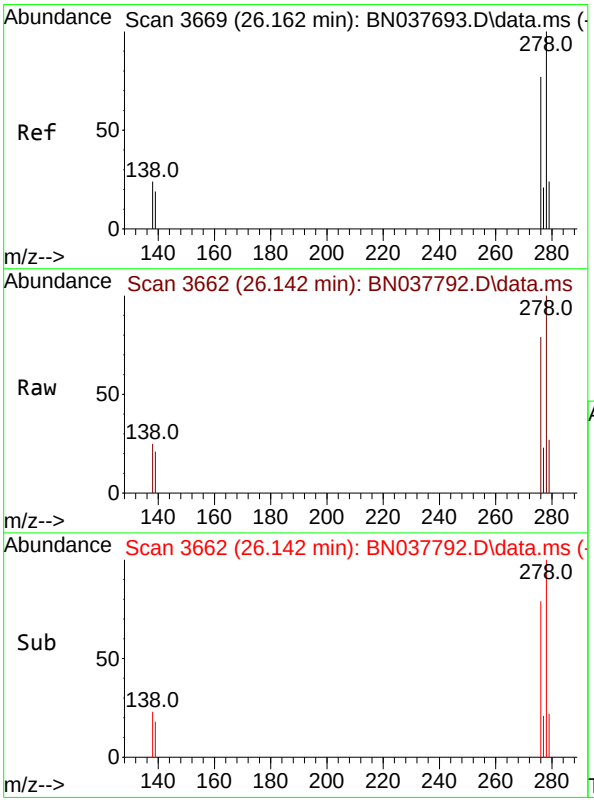

#39
Benzo(a)pyrene
Concen: 0.395 ng
RT: 23.633 min Scan# 2
Delta R.T. -0.015 min
Lab File: BN037792.D
Acq: 19 Sep 2025 00:16

**Instrument :**
BNA_N
**ClientSampleId :**
PB169693BS

Tgt Ion:252 Resp: 12714

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 27.3 | 20.8 | 31.2 |
| 125 | 22.1 | 13.9 | 20.9# |

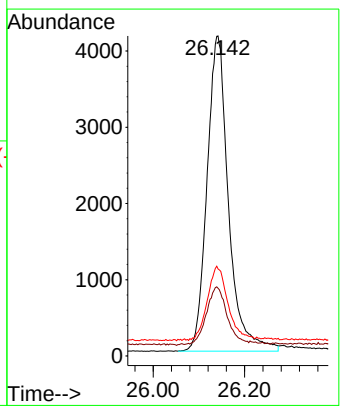


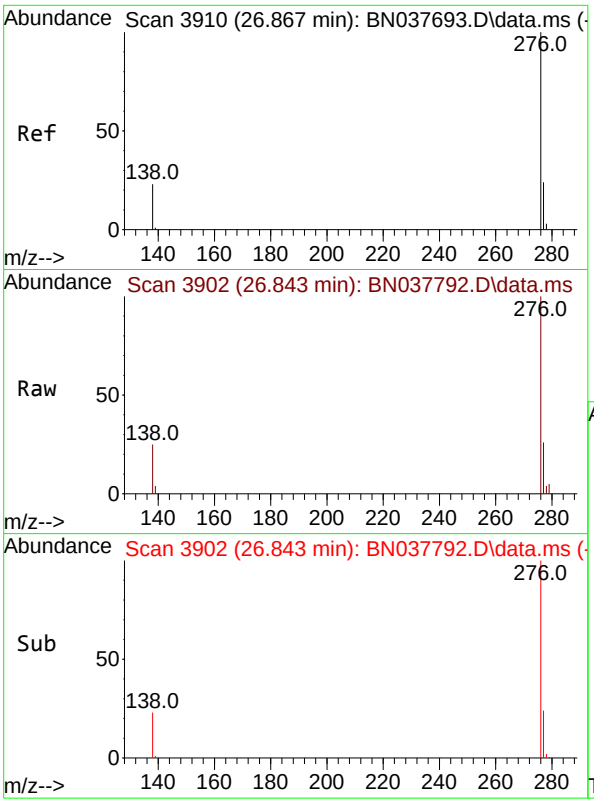




#40
Dibenzo(a,h)anthracene
Concen: 0.394 ng
RT: 26.142 min Scan# 3662
Delta R.T. -0.021 min
Lab File: BN037792.D
Acq: 19 Sep 2025 00:16

Tgt Ion:278 Resp: 13475

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 278 | 100 | | |
| 139 | 21.2 | 17.8 | 26.6 |
| 279 | 27.2 | 22.0 | 33.0 |






#41
Benzo(g,h,i)perylene
Concen: 0.398 ng
RT: 26.843 min Scan# 3
Delta R.T. -0.024 min
Lab File: BN037792.D
Acq: 19 Sep 2025 00:16

**Instrument :**
BNA_N
**ClientSampleId :**
PB169693BS

Tgt Ion:276 Resp: 15272

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 276 | 100 | | |
| 277 | 25.6 | 20.6 | 31.0 |
| 138 | 24.8 | 20.2 | 30.2 |