LSC Area Percent Report

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF102924\
Data File : BF140123.D
Acq On : 29 Oct 2024 20:21
Operator : RC/JU
Sample : P4597-01
Misc :
ALS Vial : 12 Sample Multiplier: 1

**Instrument :**
BNA_F
**ClientSampleId :**
RED-1-1

Integration Parameters: rteint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF101824.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

Signal : TIC: BF140123.D\data.ms

| peak # | R.T. min | first scan | max scan | last scan | PK TY | peak height | corr. area | corr. % max. | % of total |
|---|---|---|---|---|---|---|---|---|---|
| 1 | 2.193 | 9 | 17 | 25 | rVB | 995854 | 1586421 | 54.58% | 4.506% |
| 2 | 5.122 | 511 | 515 | 523 | rVB | 18328 | 29424 | 1.01% | 0.084% |
| 3 | 5.510 | 574 | 581 | 586 | rBV | 1781582 | 2488406 | 85.62% | 7.068% |
| 4 | 6.457 | 735 | 742 | 745 | rBV | 18295 | 32101 | 1.10% | 0.091% |
| 5 | 6.510 | 745 | 751 | 756 | rVV | 1796728 | 2528260 | 86.99% | 7.181% |
| 6 | 6.887 | 810 | 815 | 820 | rBV | 634048 | 781240 | 26.88% | 2.219% |
| 7 | 7.445 | 904 | 910 | 915 | rBV | 1288162 | 1725700 | 59.38% | 4.902% |
| 8 | 7.698 | 948 | 953 | 960 | rVB | 70927 | 86730 | 2.98% | 0.246% |
| 9 | 8.169 | 1027 | 1033 | 1047 | rVB | 814411 | 1025240 | 35.28% | 2.912% |
| 10 | 8.381 | 1063 | 1069 | 1075 | rBV | 26422 | 34282 | 1.18% | 0.097% |
| 11 | 9.245 | 1210 | 1216 | 1221 | rBV | 2232852 | 2906381 | 100.00% | 8.255% |
| 12 | 9.922 | 1326 | 1331 | 1336 | rBV | 857533 | 1082974 | 37.26% | 3.076% |
| 13 | 10.633 | 1447 | 1452 | 1459 | rVB | 165166 | 208089 | 7.16% | 0.591% |
| 14 | 10.710 | 1459 | 1465 | 1476 | rBV | 1090904 | 1426253 | 49.07% | 4.051% |
| 15 | 10.833 | 1481 | 1486 | 1494 | rVB3 | 22470 | 38508 | 1.32% | 0.109% |
| 16 | 11.216 | 1547 | 1551 | 1555 | rVB | 24870 | 32021 | 1.10% | 0.091% |
| 17 | 11.269 | 1555 | 1560 | 1563 | rBV4 | 18946 | 29182 | 1.00% | 0.083% |
| 18 | 11.304 | 1563 | 1566 | 1571 | rVB | 28174 | 36947 | 1.27% | 0.105% |
| 19 | 11.410 | 1579 | 1584 | 1586 | rVV | 680573 | 894459 | 30.78% | 2.541% |
| 20 | 11.433 | 1586 | 1588 | 1593 | rVV | 593243 | 685751 | 23.59% | 1.948% |
| 21 | 11.486 | 1593 | 1597 | 1600 | rVV | 49394 | 75801 | 2.61% | 0.215% |
| 22 | 11.516 | 1600 | 1602 | 1608 | rVB | 29015 | 37202 | 1.28% | 0.106% |
| 23 | 11.639 | 1617 | 1623 | 1630 | rBV | 85093 | 133653 | 4.60% | 0.380% |
| 24 | 11.933 | 1664 | 1673 | 1684 | rBV2 | 444222 | 784632 | 27.00% | 2.229% |
| 25 | 12.028 | 1684 | 1689 | 1696 | rVB2 | 104771 | 195643 | 6.73% | 0.556% |
| 26 | 12.110 | 1697 | 1703 | 1707 | rBV3 | 19063 | 42205 | 1.45% | 0.120% |
| 27 | 12.228 | 1716 | 1723 | 1730 | rVB2 | 153386 | 253519 | 8.72% | 0.720% |
| 28 | 12.463 | 1759 | 1763 | 1766 | rBV | 33350 | 42708 | 1.47% | 0.121% |
| 29 | 12.545 | 1773 | 1777 | 1782 | rVB | 58635 | 77733 | 2.67% | 0.221% |
| 30 | 12.627 | 1785 | 1791 | 1796 | rBV | 1265683 | 1620843 | 55.77% | 4.604% |
| 31 | 12.722 | 1803 | 1807 | 1810 | rBV | 91153 | 126862 | 4.36% | 0.360% |
| 32 | 12.857 | 1822 | 1830 | 1835 | rBV | 1006195 | 1497998 | 51.54% | 4.255% |
| 33 | 12.904 | 1835 | 1838 | 1843 | rVB2 | 46544 | 66574 | 2.29% | 0.189% |
| 34 | 12.998 | 1845 | 1854 | 1861 | rBV | 1562529 | 2122257 | 73.02% | 6.028% |
| 35 | 13.075 | 1861 | 1867 | 1870 | rBV3 | 71132 | 133111 | 4.58% | 0.378% |
| 36 | 13.180 | 1876 | 1885 | 1889 | rVB3 | 128631 | 266366 | 9.16% | 0.757% |

LSC Area Percent Report

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Acq On : 29 Oct 2024 20:21
Operator : RC/JU
Sample : P4597-01
Misc :
ALS Vial : 12 Sample Multiplier: 1

**Instrument :**
BNA_F
**ClientSampleId :**
RED-1-1

Integration Parameters: rteint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF101824.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 37 | 13.245 | 1889 | 1896 | 1899 | rBV2 | 80656 | 138129 | 4.75% | 0.392% |
| 38 | 13.286 | 1899 | 1903 | 1906 | rBV2 | 71683 | 92906 | 3.20% | 0.264% |
| 39 | 13.380 | 1915 | 1919 | 1921 | rBV | 45527 | 56434 | 1.94% | 0.160% |
| 40 | 13.410 | 1921 | 1924 | 1928 | rVB2 | 33990 | 43193 | 1.49% | 0.123% |
| 41 | 13.563 | 1946 | 1950 | 1956 | rBV4 | 50030 | 129555 | 4.46% | 0.368% |
| 42 | 13.686 | 1967 | 1971 | 1977 | rVB | 131265 | 180429 | 6.21% | 0.512% |
| 43 | 13.804 | 1985 | 1991 | 1994 | rBV2 | 168198 | 281095 | 9.67% | 0.798% |
| 44 | 13.833 | 1994 | 1996 | 1998 | rVV | 98419 | 121149 | 4.17% | 0.344% |
| 45 | 13.857 | 1998 | 2000 | 2004 | rVV3 | 116179 | 186043 | 6.40% | 0.528% |
| 46 | 13.898 | 2004 | 2007 | 2017 | rVB2 | 209428 | 357771 | 12.31% | 1.016% |
| 47 | 14.057 | 2026 | 2034 | 2037 | rBV3 | 873323 | 1778293 | 61.19% | 5.051% |
| 48 | 14.086 | 2037 | 2039 | 2046 | rVB | 702045 | 817257 | 28.12% | 2.321% |
| 49 | 14.169 | 2049 | 2053 | 2056 | rBV | 61642 | 76720 | 2.64% | 0.218% |
| 50 | 14.280 | 2069 | 2072 | 2077 | rVB2 | 72890 | 104166 | 3.58% | 0.296% |
| 51 | 14.451 | 2098 | 2101 | 2105 | rVB | 58385 | 72901 | 2.51% | 0.207% |
| 52 | 14.492 | 2105 | 2108 | 2112 | rVB2 | 133573 | 163735 | 5.63% | 0.465% |
| 53 | 14.545 | 2113 | 2117 | 2120 | rBV3 | 66254 | 114426 | 3.94% | 0.325% |
| 54 | 14.769 | 2151 | 2155 | 2158 | rBV | 64432 | 95148 | 3.27% | 0.270% |
| 55 | 14.857 | 2167 | 2170 | 2174 | rBV2 | 34765 | 44670 | 1.54% | 0.127% |
| 56 | 15.127 | 2210 | 2216 | 2225 | rBV | 832922 | 1896789 | 65.26% | 5.388% |
| 57 | 15.204 | 2225 | 2229 | 2232 | rBV | 90840 | 120300 | 4.14% | 0.342% |
| 58 | 15.433 | 2263 | 2268 | 2274 | rVB | 412927 | 670754 | 23.08% | 1.905% |
| 59 | 15.498 | 2274 | 2279 | 2285 | rVB | 421479 | 622750 | 21.43% | 1.769% |
| 60 | 15.563 | 2285 | 2290 | 2294 | rBV | 397051 | 650537 | 22.38% | 1.848% |
| 61 | 16.045 | 2368 | 2372 | 2378 | rVB | 91026 | 149357 | 5.14% | 0.424% |
| 62 | 16.886 | 2509 | 2515 | 2526 | rVB5 | 61461 | 191486 | 6.59% | 0.544% |
| 63 | 17.062 | 2539 | 2545 | 2554 | rVB2 | 218181 | 483335 | 16.63% | 1.373% |
| 64 | 17.515 | 2615 | 2622 | 2635 | rVB | 179435 | 431427 | 14.84% | 1.225% |

Sum of corrected areas: 35206231

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF102924\
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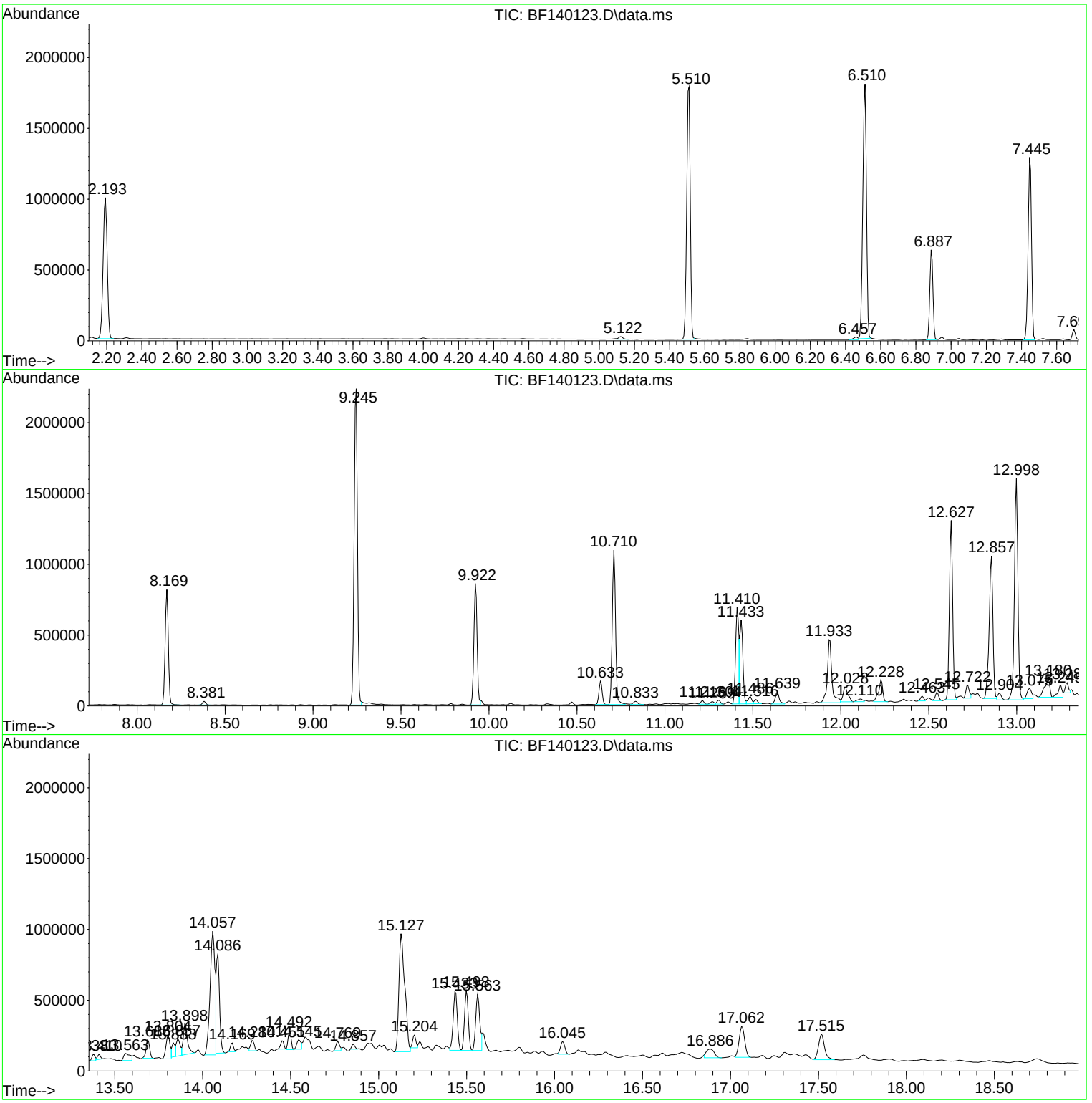
Sample : P4597-01
Misc :
ALS Vial : 12 Sample Multiplier: 1

**Instrument :**
BNA_F
**ClientSampleId :**
RED-1-1

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF101824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF102924\
Data File : BF140123.D
Acq On : 29 Oct 2024 20:21
Operator : RC/JU
Sample : P4597-01
Misc :
ALS Vial : 12 Sample Multiplier: 1

**Instrument :**
BNA_F
**ClientSampleId :**
RED-1-1

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF101824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

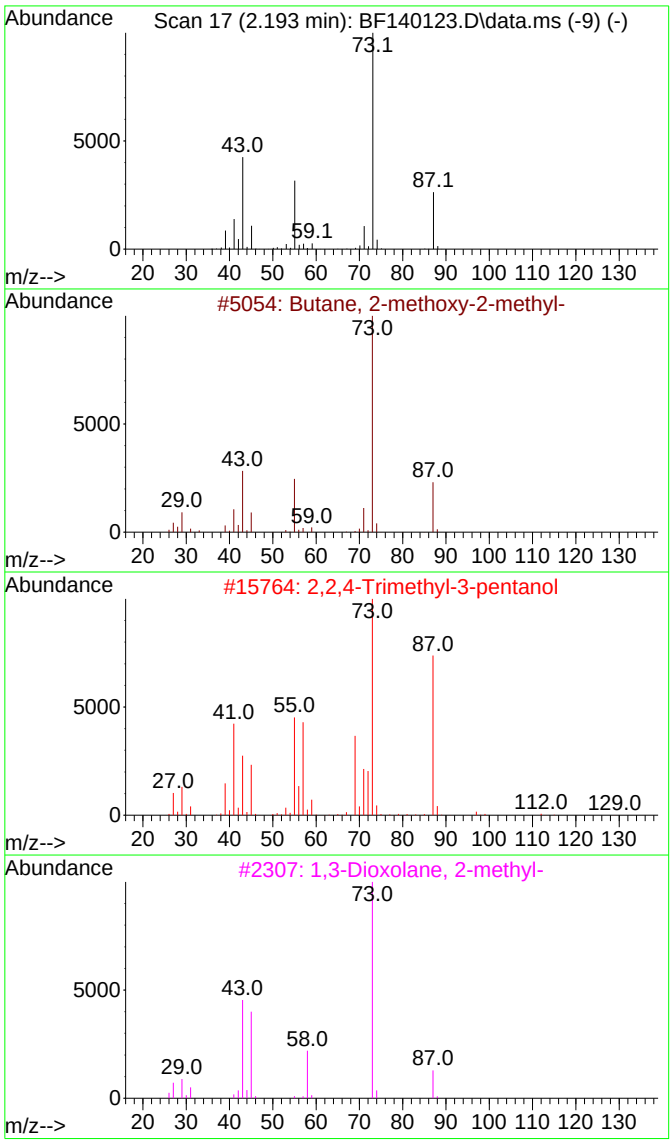
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

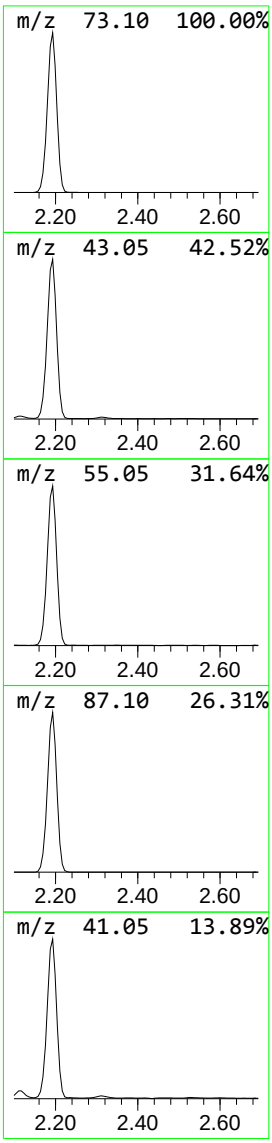
**********

Peak Number 1 Butane, 2-methoxy-2-methyl- Concentration Rank 1

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 2.193 | 40.61 ng | 1586420 | 1,4-Dichlorobenzene-d4 | 6.887 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Butane, 2-methoxy-2-methyl- | 102 | C6H14O | 000994-05-8 | 83 |
| 2 | 2,2,4-Trimethyl-3-pentanol | 130 | C8H18O | 005162-48-1 | 39 |
| 3 | 1,3-Dioxolane, 2-methyl- | 88 | C4H8O2 | 000497-26-7 | 25 |
| 4 | Pentane, 3-methoxy- | 102 | C6H14O | 036839-67-5 | 12 |
| 5 | Silane, tetramethyl- | 88 | C4H12Si | 000075-76-3 | 12 |



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF102924\
Data File : BF140123.D
Acq On : 29 Oct 2024 20:21
Operator : RC/JU
Sample : P4597-01
Misc :
ALS Vial : 12 Sample Multiplier: 1

**Instrument :**
BNA_F
**ClientSampleId :**
RED-1-1

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF101824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

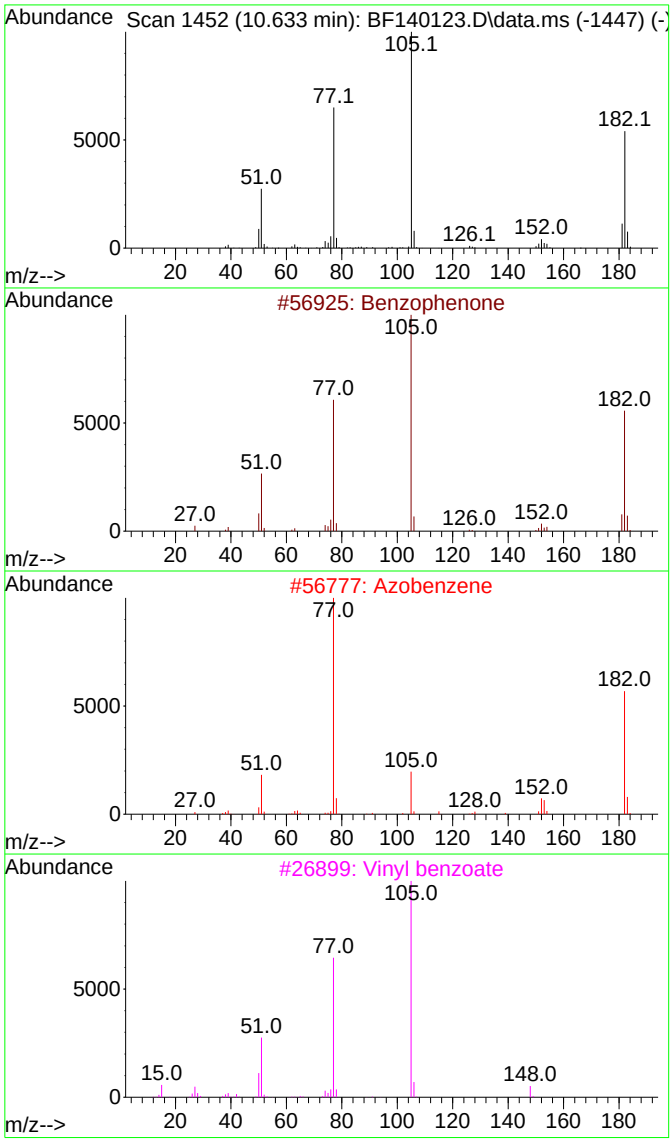
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

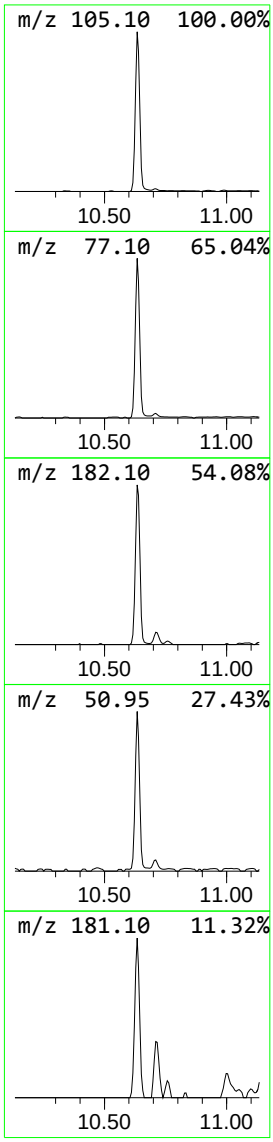
**********

Peak Number 2 Benzophenone Concentration Rank 9

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 10.634 | 3.84 ng | 208089 | Acenaphthene-d10 | 9.922 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Benzophenone | 182 | C13H10O | 000119-61-9 | 96 |
| 2 | Azobenzene | 182 | C12H10N2 | 000103-33-3 | 59 |
| 3 | Vinyl benzoate | 148 | C9H8O2 | 000769-78-8 | 47 |
| 4 | Pentafluoroethyl phenyl ketone | 224 | C9H5F5O | 000394-52-5 | 47 |
| 5 | Benzenebutanoic acid, .gamma.-oxo- | 178 | C10H10O3 | 002051-95-8 | 47 |



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF102924\
Data File : BF140123.D
Acq On : 29 Oct 2024 20:21
Operator : RC/JU
Sample : P4597-01
Misc :
ALS Vial : 12 Sample Multiplier: 1

**Instrument :**
BNA_F
**ClientSampleId :**
RED-1-1

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF101824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

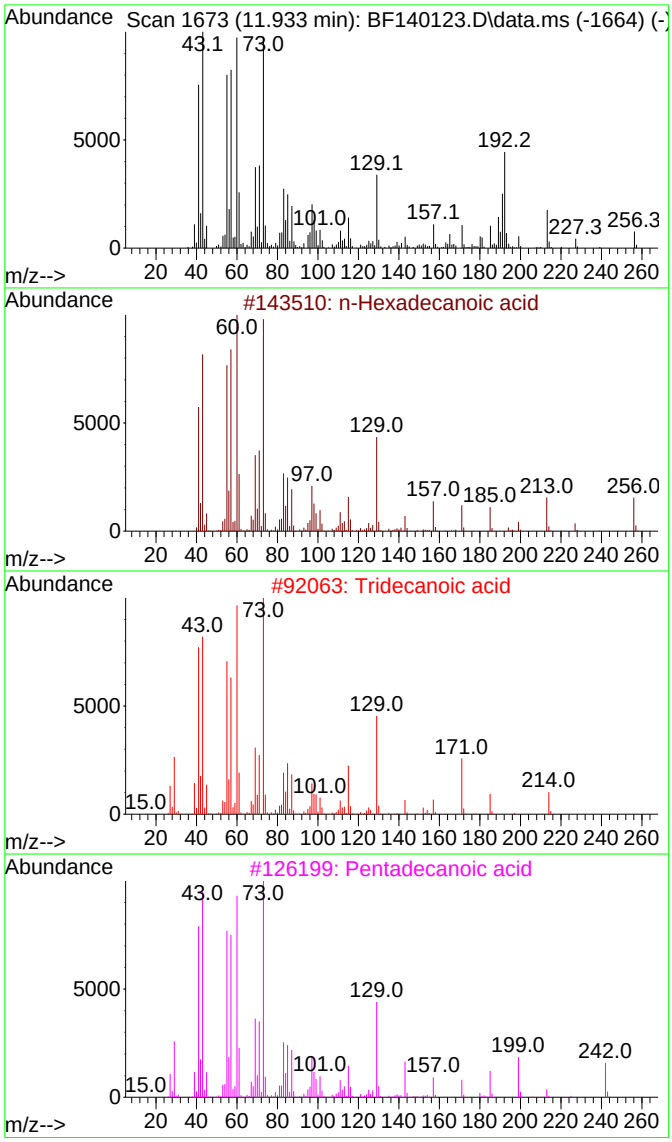
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

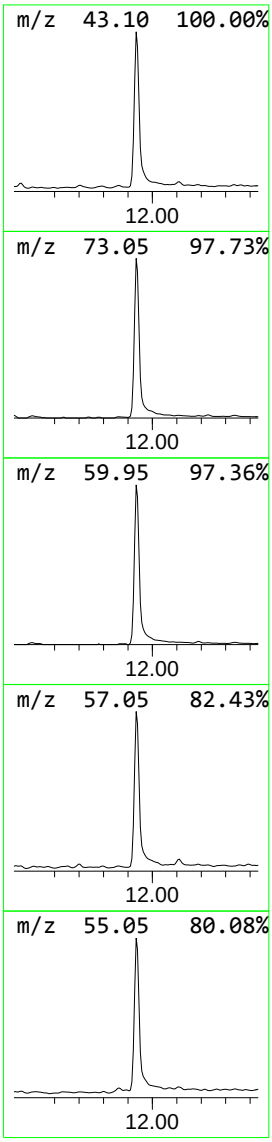
**********

Peak Number 3 n-Hexadecanoic acid Concentration Rank 3

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 11.933 | 17.54 ng | 784632 | Phenanthrene-d10 | 11.410 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | n-Hexadecanoic acid | 256 | C16H32O2 | 000057-10-3 | 99 |
| 2 | Tridecanoic acid | 214 | C13H26O2 | 000638-53-9 | 89 |
| 3 | Pentadecanoic acid | 242 | C15H30O2 | 001002-84-2 | 81 |
| 4 | Tetradecanoic acid | 228 | C14H28O2 | 000544-63-8 | 64 |
| 5 | n-Decanoic acid | 172 | C10H20O2 | 000334-48-5 | 58 |



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF102924\
Data File : BF140123.D
Acq On : 29 Oct 2024 20:21
Operator : RC/JU
Sample : P4597-01
Misc :
ALS Vial : 12 Sample Multiplier: 1

**Instrument :**
BNA_F
**ClientSampleId :**
RED-1-1

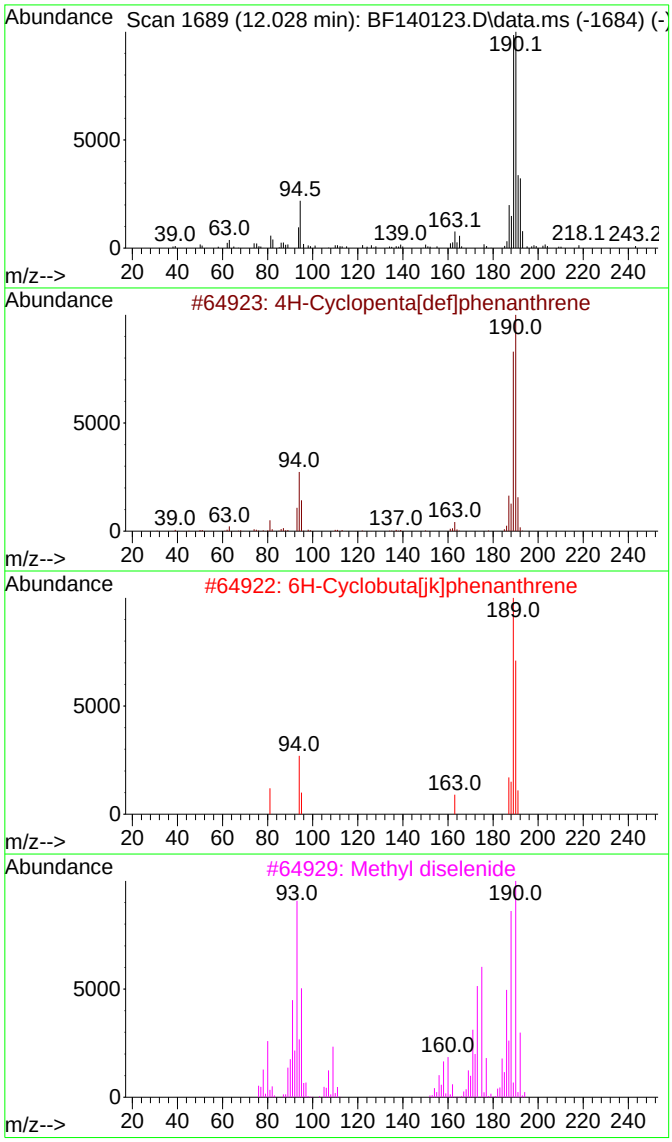
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF101824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

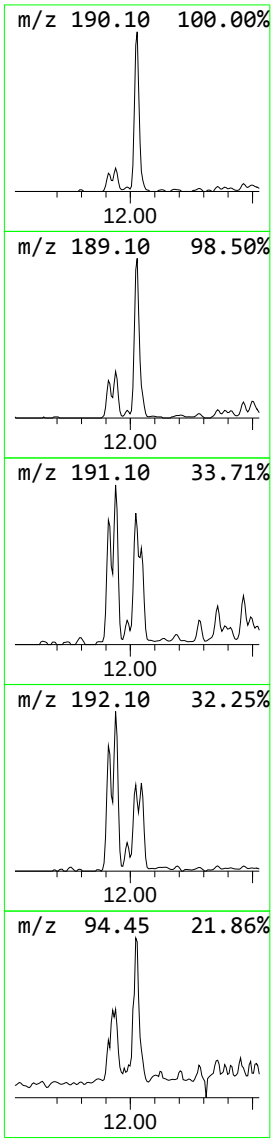
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

**********
Peak Number 4 4H-Cyclopenta[def]phenanthrene Concentration Rank 7

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 12.028 | 4.37 ng | 195643 | Phenanthrene-d10 | 11.410 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 4H-Cyclopenta[def]phenanthrene | 190 | C15H10 | 000203-64-5 | 94 |
| 2 | 6H-Cyclobuta[jk]phenanthrene | 190 | C15H10 | 083469-43-6 | 56 |
| 3 | Methyl diselenide | 190 | C2H6Se2 | 007101-31-7 | 49 |
| 4 | 2,2'-Bis(4,5-dimethylimidazole) | 190 | C10H14N4 | 069286-06-2 | 45 |
| 5 | 1-(Phenylethynyl)-1H-1,2,3-benzo... | 219 | C14H9N3 | 209912-23-2 | 27 |



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF102924\
Data File : BF140123.D
Acq On : 29 Oct 2024 20:21
Operator : RC/JU
Sample : P4597-01
Misc :
ALS Vial : 12 Sample Multiplier: 1

**Instrument :**
BNA_F
**ClientSampleId :**
RED-1-1

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF101824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

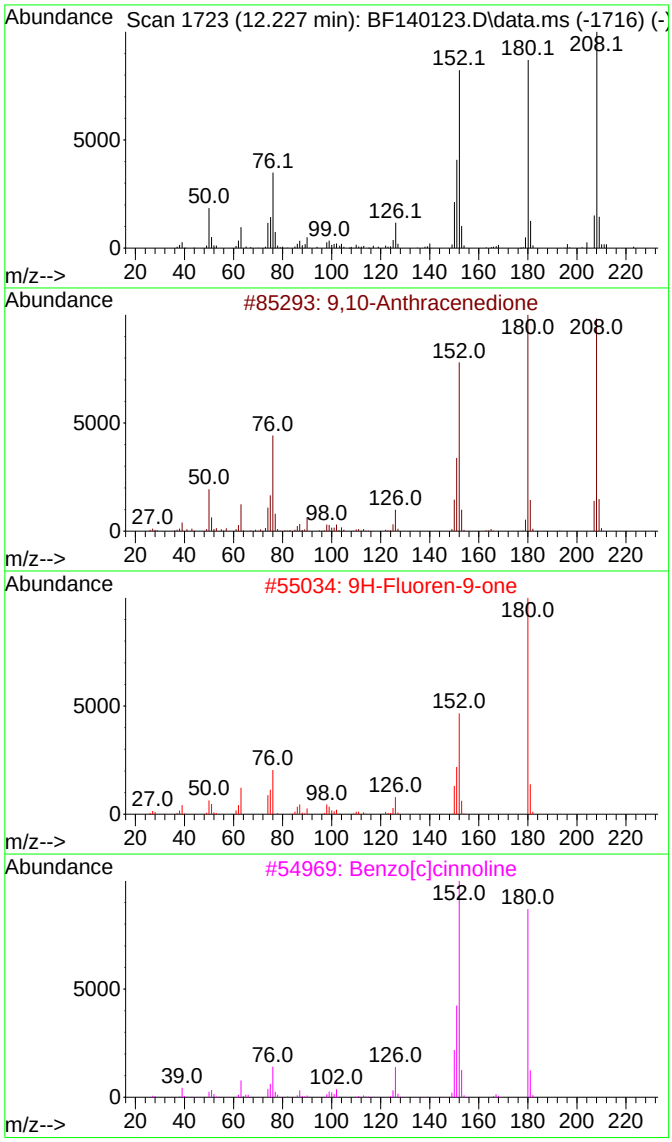
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

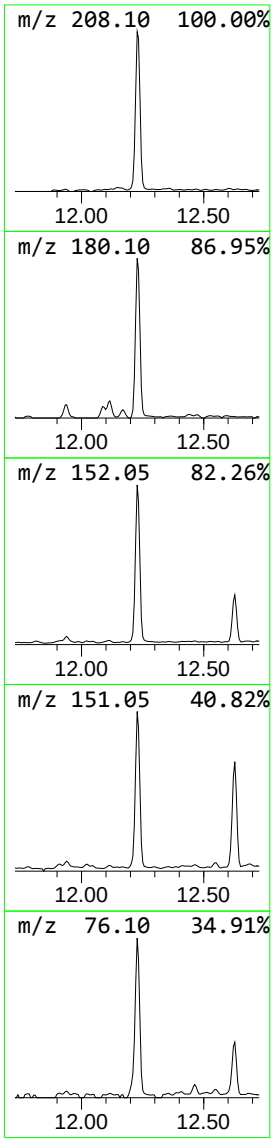
**********

Peak Number 5 9,10-Anthracenedione Concentration Rank 5

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 12.227 | 5.67 ng | 253519 | Phenanthrene-d10 | 11.410 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 9,10-Anthracenedione | 208 | C14H8O2 | 000084-65-1 | 99 |
| 2 | 9H-Fluoren-9-one | 180 | C13H8O | 000486-25-9 | 86 |
| 3 | Benzo[c]cinnoline | 180 | C12H8N2 | 000230-17-1 | 86 |
| 4 | 1H-Phenalen-1-one | 180 | C13H8O | 000548-39-0 | 60 |
| 5 | 1,4-Anthracenedione | 208 | C14H8O2 | 000635-12-1 | 52 |



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF102924\
Data File : BF140123.D
Acq On : 29 Oct 2024 20:21
Operator : RC/JU
Sample : P4597-01
Misc :
ALS Vial : 12 Sample Multiplier: 1

**Instrument :**
BNA_F
**ClientSampleId :**
RED-1-1

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF101824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

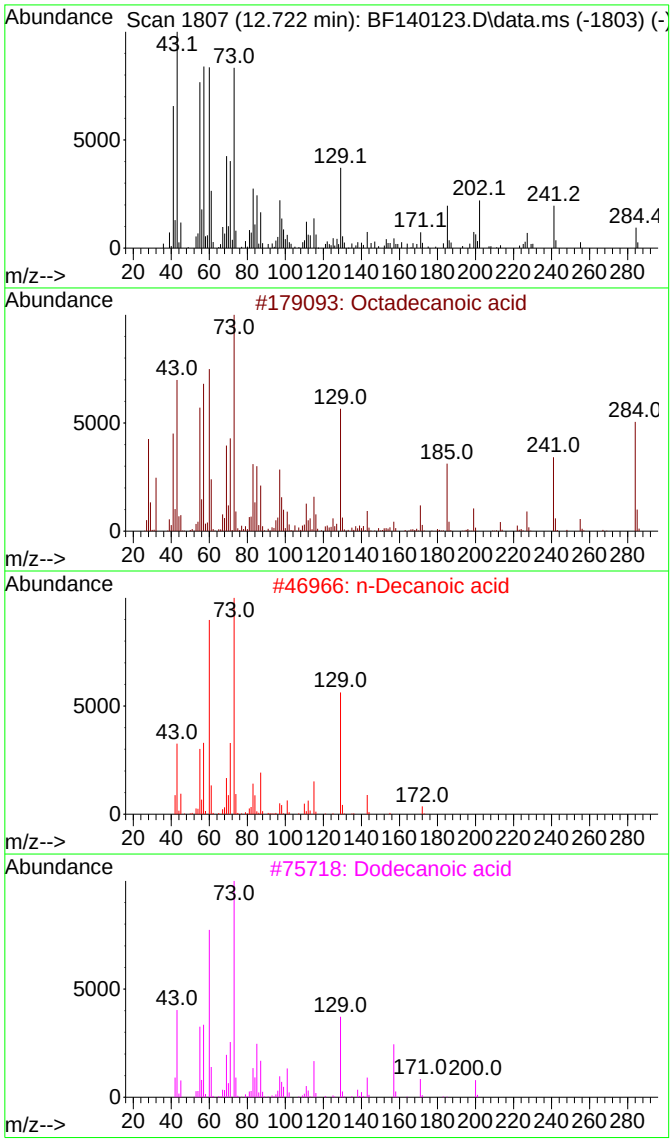
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

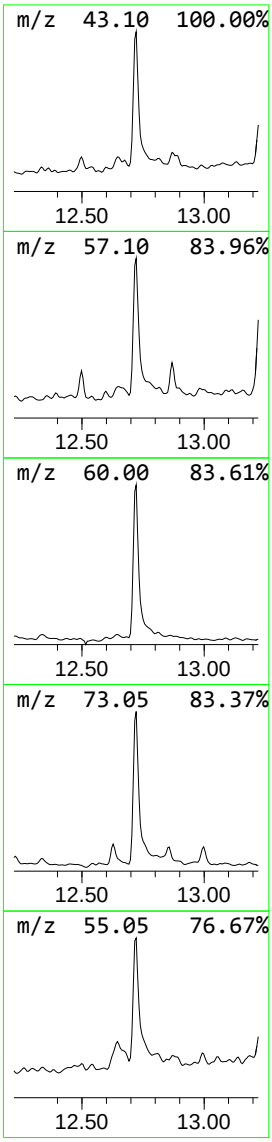
**********

Peak Number 6 Octadecanoic acid Concentration Rank 13

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 12.722 | 2.84 ng | 126862 | Phenanthrene-d10 | 11.410 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Octadecanoic acid | 284 | C18H36O2 | 000057-11-4 | 99 |
| 2 | n-Decanoic acid | 172 | C10H20O2 | 000334-48-5 | 89 |
| 3 | Dodecanoic acid | 200 | C12H24O2 | 000143-07-7 | 78 |
| 4 | Octadecanoic acid, 2-(2-hydroxye... | 372 | C22H44O4 | 000106-11-6 | 72 |
| 5 | Tetradecanoic acid | 228 | C14H28O2 | 000544-63-8 | 68 |



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF102924\
Data File : BF140123.D
Acq On : 29 Oct 2024 20:21
Operator : RC/JU
Sample : P4597-01
Misc :
ALS Vial : 12 Sample Multiplier: 1

**Instrument :**
BNA_F
**ClientSampleId :**
RED-1-1

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF101824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

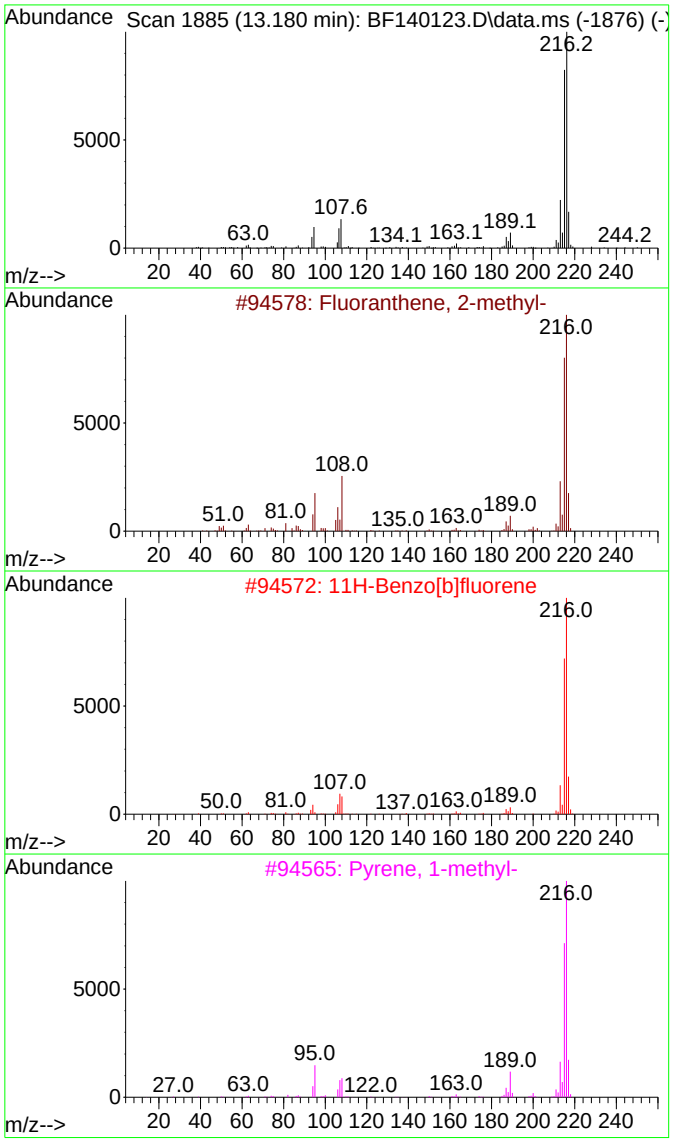
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

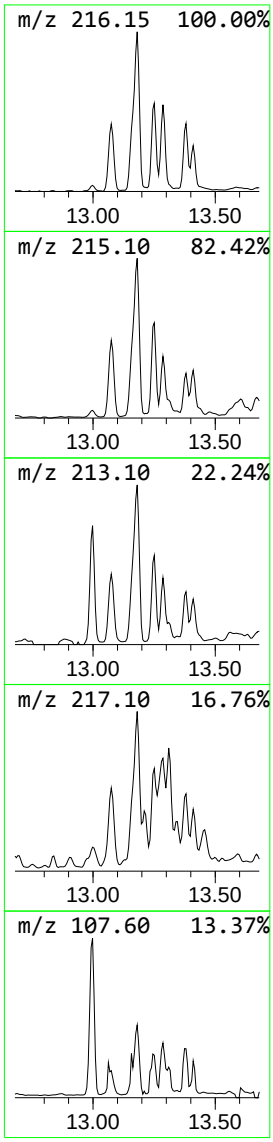
**********

Peak Number 7 Fluoranthene, 2-methyl- Concentration Rank 12

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 13.180 | 3.00 ng | 266366 | Chrysene-d12 | 14.057 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Fluoranthene, 2-methyl- | 216 | C17H12 | 033543-31-6 | 95 |
| 2 | 11H-Benzo[b]fluorene | 216 | C17H12 | 000243-17-4 | 94 |
| 3 | Pyrene, 1-methyl- | 216 | C17H12 | 002381-21-7 | 94 |
| 4 | 11H-Benzo[a]fluorene | 216 | C17H12 | 000238-84-6 | 91 |
| 5 | 7H-Benzo[c]fluorene | 216 | C17H12 | 000205-12-9 | 81 |



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF102924\
Data File : BF140123.D
Acq On : 29 Oct 2024 20:21
Operator : RC/JU
Sample : P4597-01
Misc :
ALS Vial : 12 Sample Multiplier: 1

**Instrument :**
BNA_F
**ClientSampleId :**
RED-1-1

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF101824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

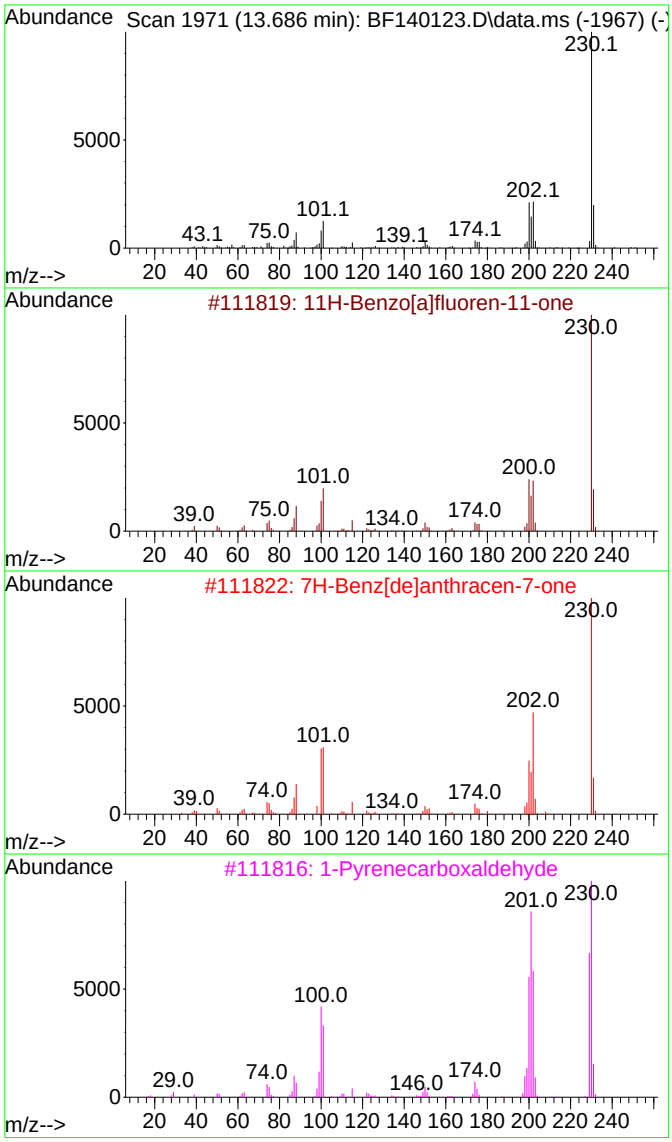
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

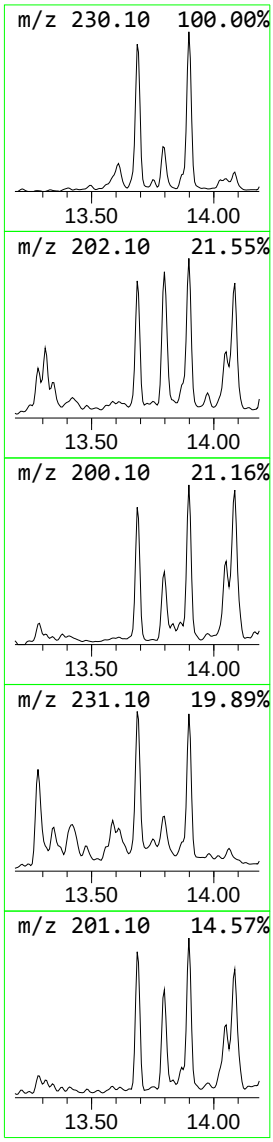
**********

Peak Number 8 11H-Benzo[a]fluoren-11-one Concentration Rank 15

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 13.686 | 2.03 ng | 180429 | Chrysene-d12 | 14.057 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 11H-Benzo[a]fluoren-11-one | 230 | C17H10O | 000479-79-8 | 98 |
| 2 | 7H-Benz[de]anthracen-7-one | 230 | C17H10O | 000082-05-3 | 90 |
| 3 | 1-Pyrenecarboxaldehyde | 230 | C17H10O | 003029-19-4 | 72 |
| 4 | 4-Pyrenecarbaldehyde | 230 | C17H10O | 022245-51-8 | 72 |
| 5 | Pyrene, 1,3-dimethyl- | 230 | C18H14 | 064401-21-4 | 59 |



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Data File : BF140123.D
Acq On : 29 Oct 2024 20:21
Operator : RC/JU
Sample : P4597-01
Misc :
ALS Vial : 12 Sample Multiplier: 1

**Instrument :**
BNA_F
**ClientSampleId :**
RED-1-1

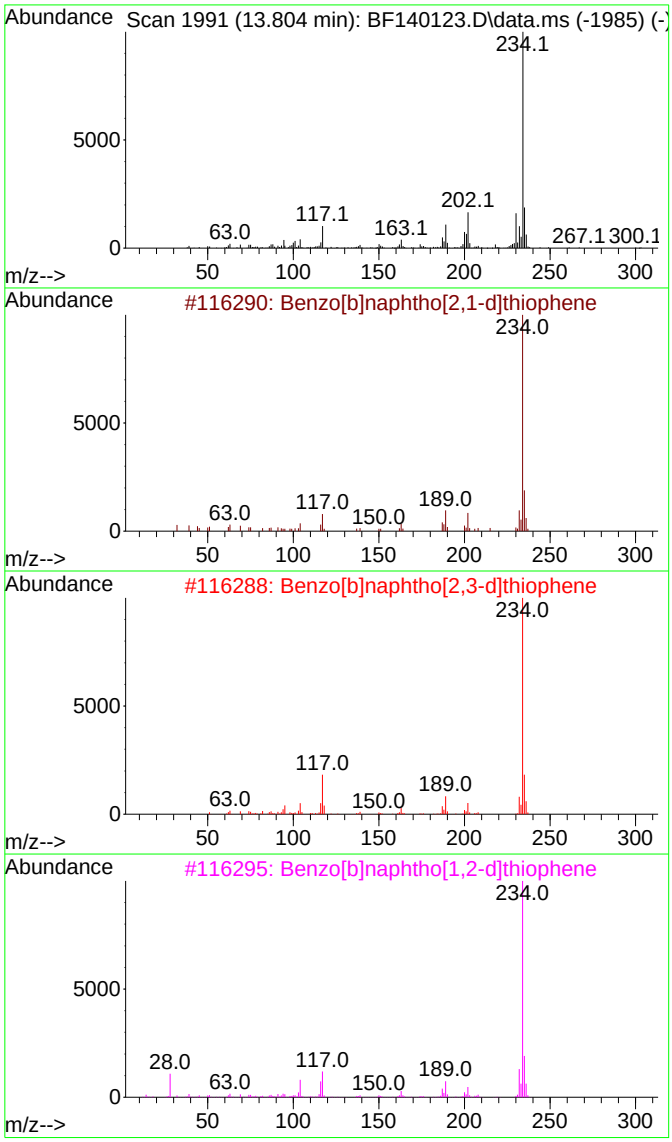
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF101824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

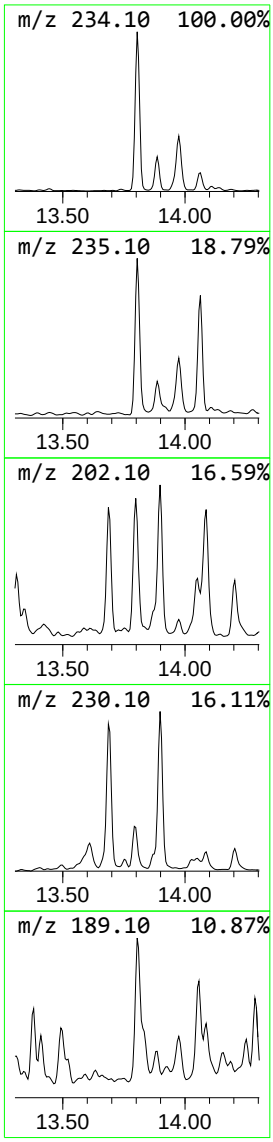
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

**********
Peak Number 9 Benzo[b]naphtho[2,1-d]thiop... Concentration Rank 11

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 13.804 | 3.16 ng | 281095 | Chrysene-d12 | 14.057 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Benzo[b]naphtho[2,1-d]thiophene | 234 | C16H10S | 000239-35-0 | 94 |
| 2 | Benzo[b]naphtho[2,3-d]thiophene | 234 | C16H10S | 000243-46-9 | 87 |
| 3 | Benzo[b]naphtho[1,2-d]thiophene | 234 | C16H10S | 000205-43-6 | 81 |
| 4 | Quinoxalino[2,3-b]quinoxaline, 5... | 234 | C14H10N4 | 000531-46-4 | 59 |
| 5 | Phenoxathiin, 2-chloro- | 234 | C12H7ClOS | 010230-34-9 | 53 |



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF102924\
Data File : BF140123.D
Acq On : 29 Oct 2024 20:21
Operator : RC/JU
Sample : P4597-01
Misc :
ALS Vial : 12 Sample Multiplier: 1

**Instrument :**
BNA_F
**ClientSampleId :**
RED-1-1

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF101824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

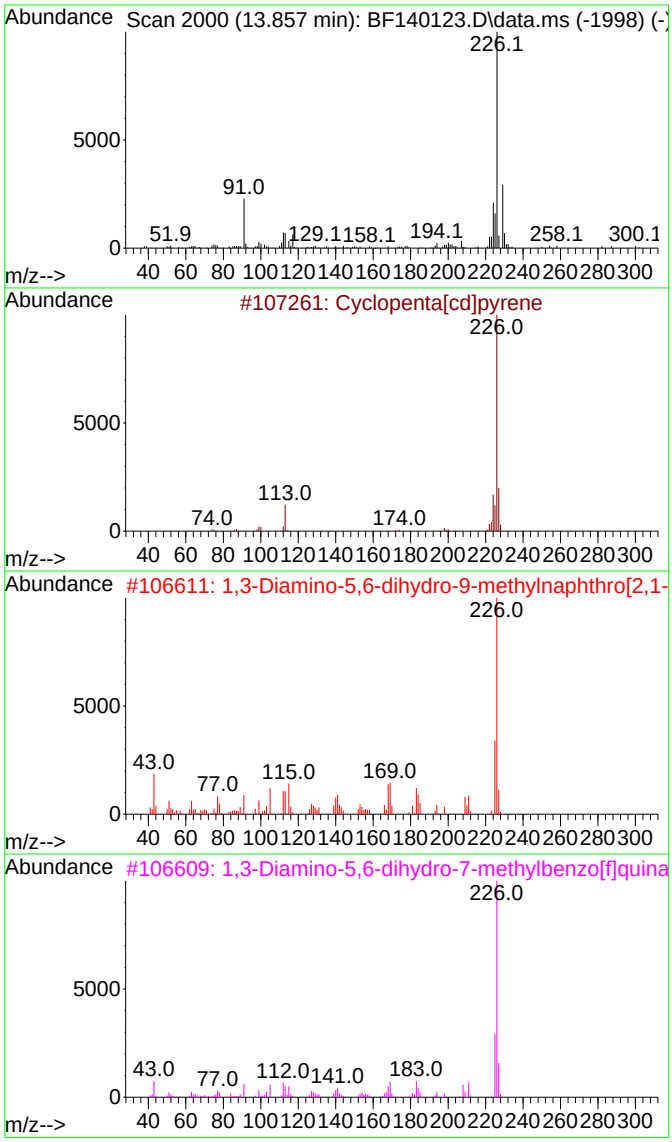
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

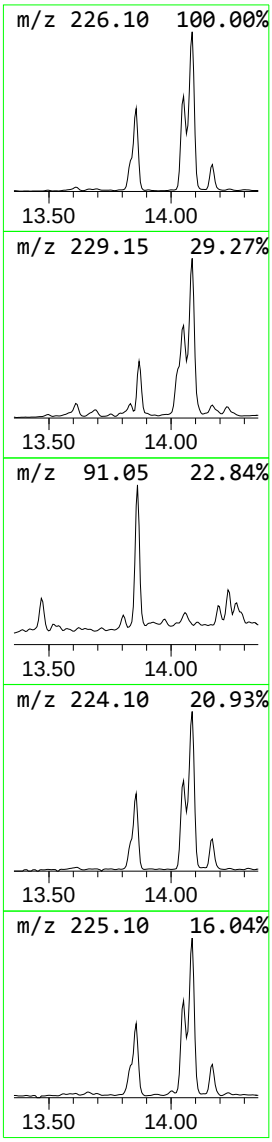
**********

Peak Number 10 Cyclopenta[cd]pyrene Concentration Rank 14

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 13.857 | 2.09 ng | 186043 | Chrysene-d12 | 14.057 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Cyclopenta[cd]pyrene | 226 | C18H10 | 027208-37-3 | 60 |
| 2 | 1,3-Diamino-5,6-dihydro-9-methyl... | 226 | C13H14N4 | 037436-39-8 | 23 |
| 3 | 1,3-Diamino-5,6-dihydro-7-methyl... | 226 | C13H14N4 | 037436-37-6 | 23 |
| 4 | Benzo[ghi]fluoranthene | 226 | C18H10 | 000203-12-3 | 12 |
| 5 | 5-Bromo-3-chloro-2-fluorophenol | 224 | C6H3BrClFO | 1305322-97-7 | 9 |



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF102924\
Data File : BF140123.D
Acq On : 29 Oct 2024 20:21
Operator : RC/JU
Sample : P4597-01
Misc :
ALS Vial : 12 Sample Multiplier: 1

**Instrument :**
BNA_F
**ClientSampleId :**
RED-1-1

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF101824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

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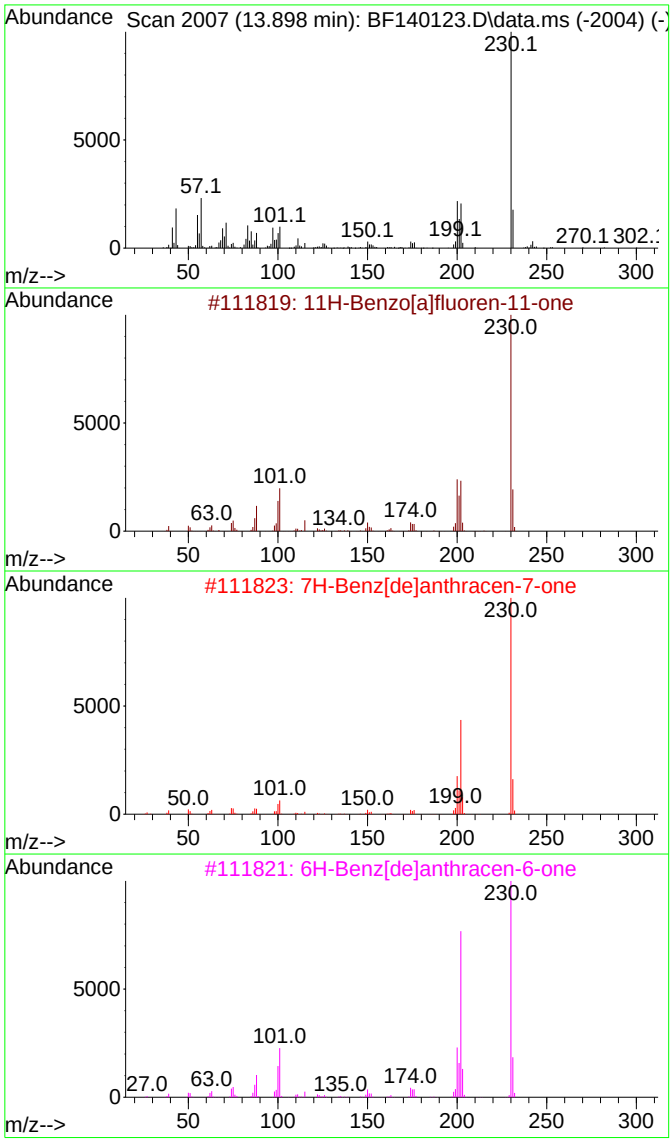
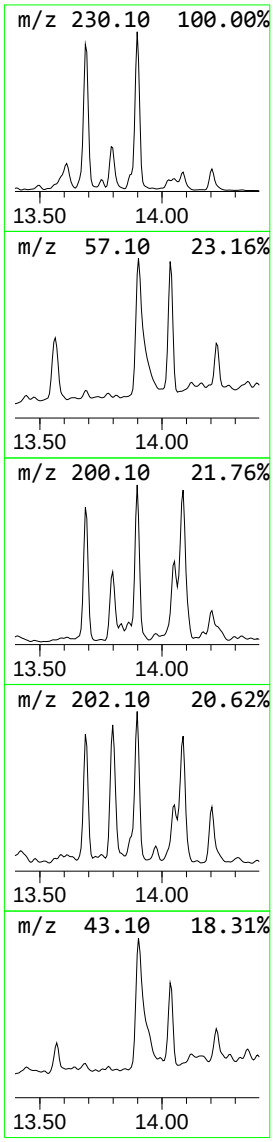
Peak Number 11 7H-Benz[de]anthracen-7-one Concentration Rank 8

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 13.898 | 4.02 ng | 357771 | Chrysene-d12 | 14.057 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 11H-Benzo[a]fluoren-11-one | 230 | C17H10O | 000479-79-8 | 95 |
| 2 | 7H-Benz[de]anthracen-7-one | 230 | C17H10O | 000082-05-3 | 90 |
| 3 | 6H-Benz[de]anthracen-6-one | 230 | C17H10O | 080252-14-8 | 58 |
| 4 | 1-Pyrenecarboxaldehyde | 230 | C17H10O | 003029-19-4 | 50 |
| 5 | Pyrene, 1,3-dimethyl- | 230 | C18H14 | 064401-21-4 | 47 |



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF102924\
Data File : BF140123.D
Acq On : 29 Oct 2024 20:21
Operator : RC/JU
Sample : P4597-01
Misc :
ALS Vial : 12 Sample Multiplier: 1

**Instrument :**
BNA_F
**ClientSampleId :**
RED-1-1

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF101824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

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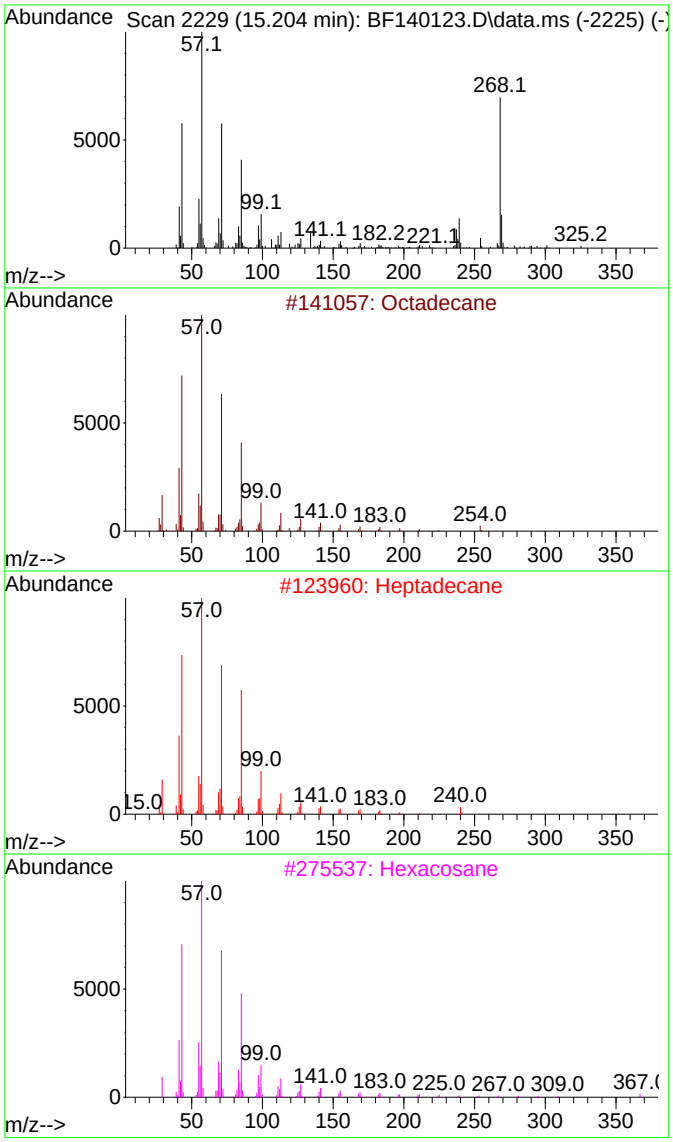
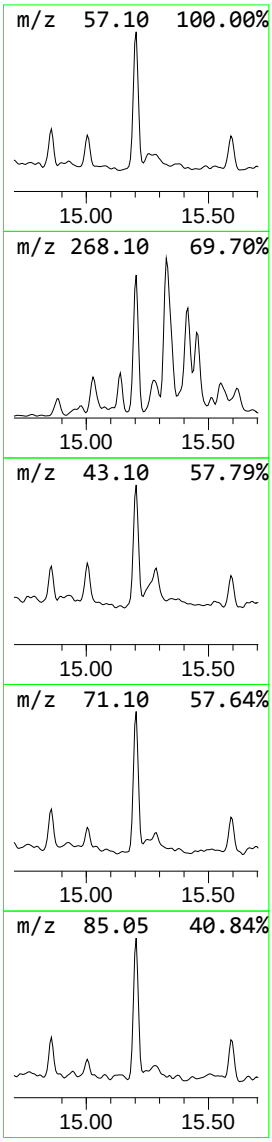
Peak Number 12 Octadecane Concentration Rank 10

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 15.204 | 3.70 ng | 120300 | Perylene-d12 | 15.563 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Octadecane | 254 | C18H38 | 000593-45-3 | 70 |
| 2 | Heptadecane | 240 | C17H36 | 000629-78-7 | 56 |
| 3 | Hexacosane | 366 | C26H54 | 000630-01-3 | 55 |
| 4 | Heptacosane | 380 | C27H56 | 000593-49-7 | 55 |
| 5 | Octacosane | 394 | C28H58 | 000630-02-4 | 55 |



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF102924\
Data File : BF140123.D
Acq On : 29 Oct 2024 20:21
Operator : RC/JU
Sample : P4597-01
Misc :
ALS Vial : 12 Sample Multiplier: 1

**Instrument :**
BNA_F
**ClientSampleId :**
RED-1-1

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF101824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

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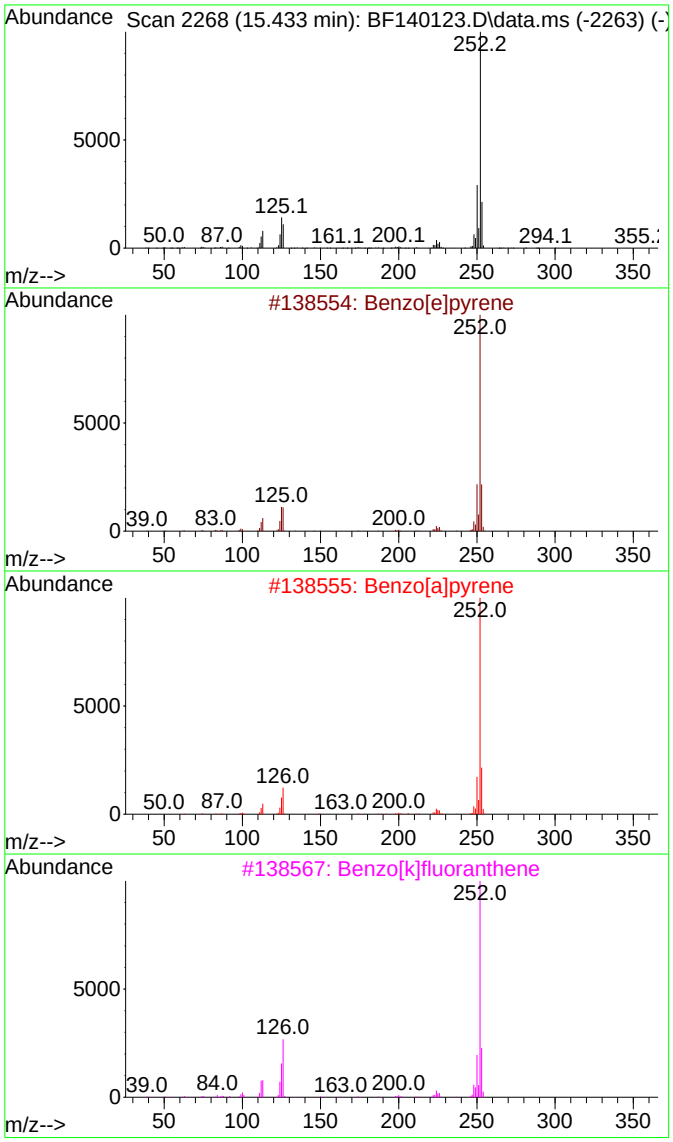
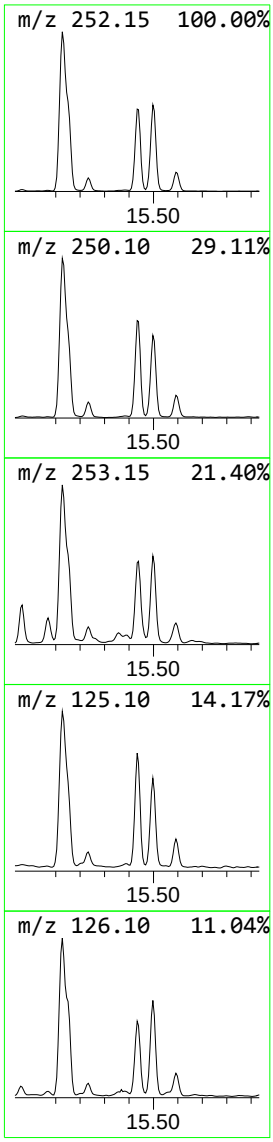
Peak Number 13 Benzo[e]pyrene Concentration Rank 2

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 15.433 | 20.62 ng | 670754 | Perylene-d12 | 15.563 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Benzo[e]pyrene | 252 | C20H12 | 000192-97-2 | 94 |
| 2 | Benzo[a]pyrene | 252 | C20H12 | 000050-32-8 | 93 |
| 3 | Benzo[k]fluoranthene | 252 | C20H12 | 000207-08-9 | 93 |
| 4 | Benzo[b]fluoranthene | 252 | C20H12 | 000205-99-2 | 90 |
| 5 | Benzo[j]fluoranthene | 252 | C20H12 | 000205-82-3 | 90 |



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF102924\
Data File : BF140123.D
Acq On : 29 Oct 2024 20:21
Operator : RC/JU
Sample : P4597-01
Misc :
ALS Vial : 12 Sample Multiplier: 1

**Instrument :**
BNA_F
**ClientSampleId :**
RED-1-1

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF101824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

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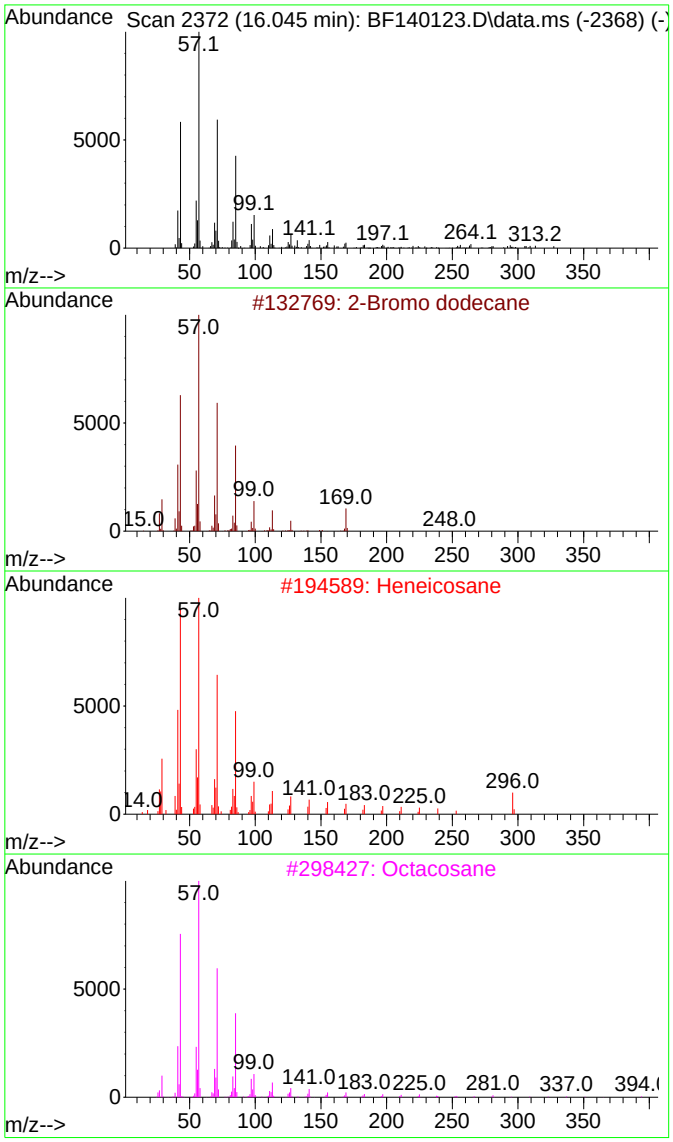
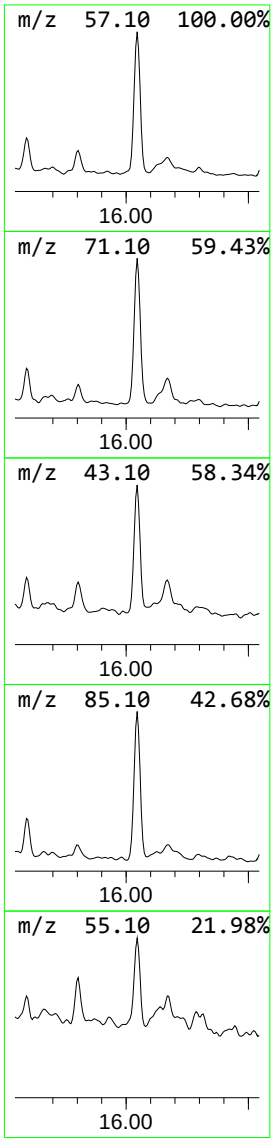
Peak Number 14 2-Bromo dodecane Concentration Rank 6

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 16.045 | 4.59 ng | 149357 | Perylene-d12 | 15.563 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 2-Bromo dodecane | 248 | C12H25Br | 013187-99-0 | 91 |
| 2 | Heneicosane | 296 | C21H44 | 000629-94-7 | 90 |
| 3 | Octacosane | 394 | C28H58 | 000630-02-4 | 90 |
| 4 | Dotriacontane, 1-iodo- | 576 | C32H65I | 1000406-32-4 | 87 |
| 5 | Pentacosane | 352 | C25H52 | 000629-99-2 | 86 |



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF102924\
Data File : BF140123.D
Acq On : 29 Oct 2024 20:21
Operator : RC/JU
Sample : P4597-01
Misc :
ALS Vial : 12 Sample Multiplier: 1

**Instrument :**
BNA_F
**ClientSampleId :**
RED-1-1

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF101824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

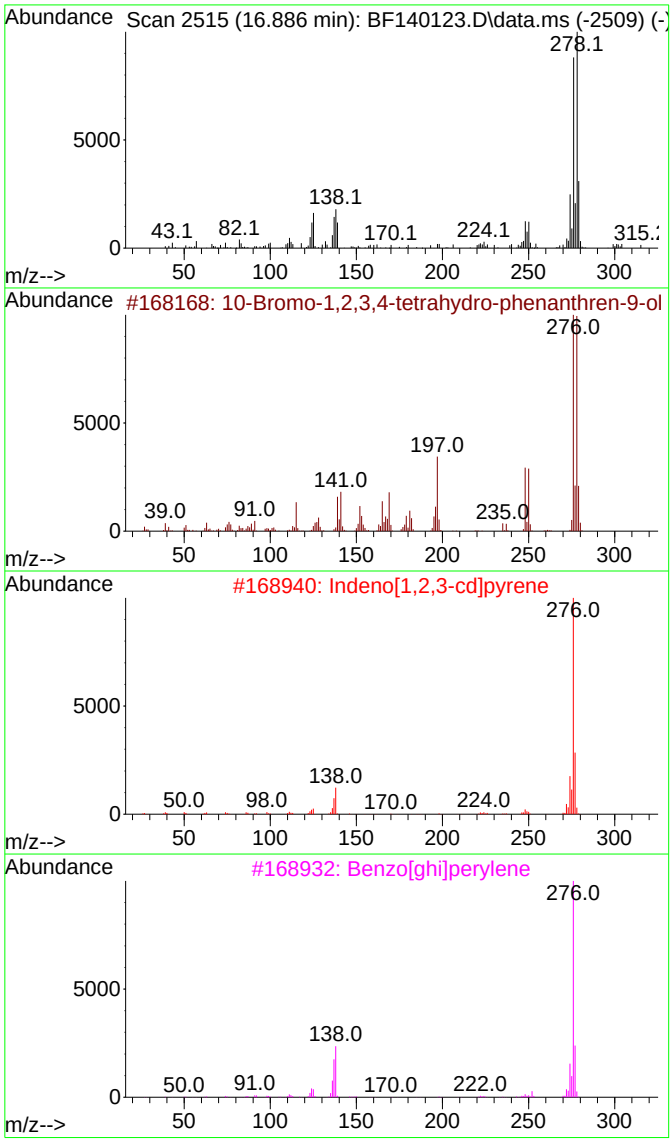
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

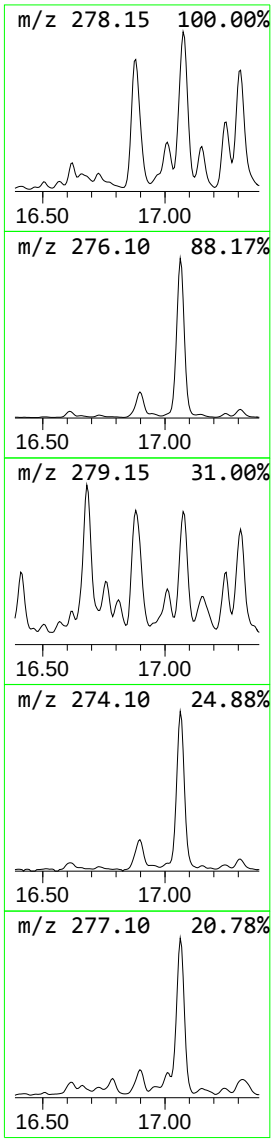
**********

Peak Number 15 10-Bromo-1,2,3,4-tetrahydro... Concentration Rank 4

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 16.886 | 5.89 ng | 191486 | Perylene-d12 | 15.563 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 10-Bromo-1,2,3,4-tetrahydro-phen... | 276 | C14H13BrO | 1000190-54-9 | 64 |
| 2 | Indeno[1,2,3-cd]pyrene | 276 | C22H12 | 000193-39-5 | 50 |
| 3 | Benzo[ghi]perylene | 276 | C22H12 | 000191-24-2 | 46 |
| 4 | Dibenzo[def,mno]chrysene | 276 | C22H12 | 000191-26-4 | 46 |
| 5 | Benzo[b]triphenylene | 278 | C22H14 | 000215-58-7 | 43 |



Tentatively Identified Compound (LSC) summary

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF102924\
Data File : BF140123.D
Acq On : 29 Oct 2024 20:21
Operator : RC/JU
Sample : P4597-01
Misc :
ALS Vial : 12 Sample Multiplier: 1

**Instrument :**
BNA_F
**ClientSampleId :**
RED-1-1

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF101824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

| | | | | | --Internal Standard--- | | | |
|---|---|---|---|---|---|---|---|---|
| TIC Top Hit name | RT | EstConc | Units | Response | # | RT | Resp | Conc |
| Butane, 2-metho... | 2.193 | 40.6 | ng | 1586420 | 1 | 6.887 | 781240 | 20.0 |
| Benzophenone | 10.634 | 3.8 | ng | 208089 | 3 | 9.922 | 1082970 | 20.0 |
| n-Hexadecanoic ... | 11.933 | 17.5 | ng | 784632 | 4 | 11.410 | 894459 | 20.0 |
| 4H-Cyclopenta[d... | 12.028 | 4.4 | ng | 195643 | 4 | 11.410 | 894459 | 20.0 |
| 9,10-Anthracene... | 12.227 | 5.7 | ng | 253519 | 4 | 11.410 | 894459 | 20.0 |
| Octadecanoic acid | 12.722 | 2.8 | ng | 126862 | 4 | 11.410 | 894459 | 20.0 |
| Fluoranthene, 2... | 13.180 | 3.0 | ng | 266366 | 5 | 14.057 | 1778290 | 20.0 |
| 11H-Benzo[a]flu... | 13.686 | 2.0 | ng | 180429 | 5 | 14.057 | 1778290 | 20.0 |
| Benzo[b]naphtho... | 13.804 | 3.2 | ng | 281095 | 5 | 14.057 | 1778290 | 20.0 |
| Cyclopenta[cd]p... | 13.857 | 2.1 | ng | 186043 | 5 | 14.057 | 1778290 | 20.0 |
| 7H-Benz[de]anth... | 13.898 | 4.0 | ng | 357771 | 5 | 14.057 | 1778290 | 20.0 |
| Octadecane | 15.204 | 3.7 | ng | 120300 | 6 | 15.563 | 650537 | 20.0 |
| Benzo[e]pyrene | 15.433 | 20.6 | ng | 670754 | 6 | 15.563 | 650537 | 20.0 |
| 2-Bromo dodecane | 16.045 | 4.6 | ng | 149357 | 6 | 15.563 | 650537 | 20.0 |
| 10-Bromo-1,2,3,... | 16.886 | 5.9 | ng | 191486 | 6 | 15.563 | 650537 | 20.0 |