LSC Area Percent Report

Data Path : Z:\HPCHEM1\BNA F\DATA\BF031918\
Data File : BF103767.D
Acq On : 19 Mar 2018 20:30
Operator : JU/SJ
Sample : J1971-05
Misc :
ALS Vial : 10 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** ES-6-SA-3-WW@4.5

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:\HPCHEM1\BNA_F\METHODS\8270-BF031518.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

Signal : TIC

| peak # | R.T. min | first scan | max scan | last scan | PK TY | peak height | corr. area | corr. % max. | % of total |
|---|---|---|---|---|---|---|---|---|---|
| 1 | 2.334 | 35 | 42 | 51 | rVB | 169584 | 227518 | 5.22% | 0.457% |
| 2 | 5.228 | 530 | 534 | 547 | rVB | 167743 | 231451 | 5.31% | 0.465% |
| 3 | 5.604 | 592 | 598 | 601 | rBV | 3819388 | 4245742 | 97.39% | 8.532% |
| 4 | 5.922 | 648 | 652 | 660 | rVB | 64437 | 60703 | 1.39% | 0.122% |
| 5 | 6.598 | 760 | 767 | 770 | rBV | 3492212 | 4359389 | 100.00% | 8.760% |
| 6 | 6.745 | 787 | 792 | 795 | rBV | 4012940 | 4271138 | 97.98% | 8.583% |
| 7 | 6.975 | 827 | 831 | 834 | rVB | 1091119 | 908167 | 20.83% | 1.825% |
| 8 | 7.133 | 853 | 858 | 861 | rBV | 3364781 | 3224307 | 73.96% | 6.479% |
| 9 | 7.539 | 921 | 927 | 930 | rBV | 2555976 | 2729084 | 62.60% | 5.484% |
| 10 | 7.598 | 932 | 937 | 945 | rVB | 38546 | 43890 | 1.01% | 0.088% |
| 11 | 8.257 | 1045 | 1049 | 1051 | rBV | 1297234 | 1245242 | 28.56% | 2.502% |
| 12 | 8.275 | 1051 | 1052 | 1055 | rVB | 334290 | 185535 | 4.26% | 0.373% |
| 13 | 8.963 | 1166 | 1169 | 1173 | rBV | 216028 | 185470 | 4.25% | 0.373% |
| 14 | 9.063 | 1182 | 1186 | 1190 | rBV | 194728 | 174101 | 3.99% | 0.350% |
| 15 | 9.327 | 1225 | 1231 | 1234 | rBV | 4008929 | 3940598 | 90.39% | 7.919% |
| 16 | 9.427 | 1245 | 1248 | 1251 | rBV | 58078 | 45467 | 1.04% | 0.091% |
| 17 | 9.598 | 1272 | 1277 | 1280 | rBV2 | 51197 | 68727 | 1.58% | 0.138% |
| 18 | 9.669 | 1284 | 1289 | 1291 | rBV | 108829 | 109033 | 2.50% | 0.219% |
| 19 | 9.692 | 1291 | 1293 | 1295 | rVV | 55661 | 51270 | 1.18% | 0.103% |
| 20 | 9.716 | 1295 | 1297 | 1300 | rVB | 413766 | 293491 | 6.73% | 0.590% |
| 21 | 9.786 | 1305 | 1309 | 1310 | rBV2 | 58064 | 52180 | 1.20% | 0.105% |
| 22 | 9.927 | 1330 | 1333 | 1336 | rVB | 134959 | 97188 | 2.23% | 0.195% |
| 23 | 10.016 | 1344 | 1348 | 1351 | rVV | 1263953 | 1161032 | 26.63% | 2.333% |
| 24 | 10.045 | 1351 | 1353 | 1356 | rVB | 185993 | 129476 | 2.97% | 0.260% |
| 25 | 10.216 | 1379 | 1382 | 1385 | rVB2 | 88801 | 80180 | 1.84% | 0.161% |
| 26 | 10.251 | 1385 | 1388 | 1392 | rBV2 | 55267 | 46330 | 1.06% | 0.093% |
| 27 | 10.404 | 1411 | 1414 | 1416 | rBV | 48987 | 52584 | 1.21% | 0.106% |
| 28 | 10.427 | 1416 | 1418 | 1421 | rVB | 167531 | 136288 | 3.13% | 0.274% |
| 29 | 10.563 | 1437 | 1441 | 1444 | rVB | 168602 | 149981 | 3.44% | 0.301% |
| 30 | 10.645 | 1453 | 1455 | 1458 | rVB2 | 68150 | 65742 | 1.51% | 0.132% |
| 31 | 10.804 | 1478 | 1482 | 1486 | rBV | 2231704 | 2327518 | 53.39% | 4.677% |
| 32 | 10.904 | 1496 | 1499 | 1508 | rVB | 140794 | 161912 | 3.71% | 0.325% |
| 33 | 11.110 | 1528 | 1534 | 1536 | rBV4 | 53347 | 81583 | 1.87% | 0.164% |
| 34 | 11.139 | 1536 | 1539 | 1542 | rVV3 | 40102 | 48823 | 1.12% | 0.098% |

LSC Area Percent Report

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Data File : BF103767.D
Acq On : 19 Mar 2018 20:30
Operator : JU/SJ
Sample : J1971-05
Misc :
ALS Vial : 10 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** ES-6-SA-3-WW@4.5

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:\HPCHEM1\BNA_F\METHODS\8270-BF031518.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 35 | 11.310 | 1564 | 1568 | 1571 | rVB | 57194 | 52530 | 1.20% | 0.106% |
| 36 | 11.351 | 1571 | 1575 | 1578 | rBV2 | 104102 | 101140 | 2.32% | 0.203% |
| 37 | 11.404 | 1582 | 1584 | 1587 | rVB | 102963 | 83034 | 1.90% | 0.167% |
| 38 | 11.504 | 1597 | 1601 | 1603 | rBV | 1079761 | 1023445 | 23.48% | 2.057% |
| 39 | 11.533 | 1603 | 1606 | 1609 | rVV | 1477160 | 1264036 | 29.00% | 2.540% |
| 40 | 11.580 | 1609 | 1614 | 1617 | rVV | 331598 | 294193 | 6.75% | 0.591% |
| 41 | 11.610 | 1617 | 1619 | 1625 | rVB | 70274 | 73765 | 1.69% | 0.148% |
| 42 | 11.733 | 1633 | 1640 | 1643 | rBV2 | 206036 | 213249 | 4.89% | 0.429% |
| 43 | 12.010 | 1681 | 1687 | 1689 | rBV2 | 277568 | 330670 | 7.59% | 0.664% |
| 44 | 12.033 | 1689 | 1691 | 1696 | rVV2 | 279387 | 277546 | 6.37% | 0.558% |
| 45 | 12.080 | 1696 | 1699 | 1702 | rVV | 87128 | 79530 | 1.82% | 0.160% |
| 46 | 12.121 | 1702 | 1706 | 1708 | rVV2 | 282098 | 305453 | 7.01% | 0.614% |
| 47 | 12.145 | 1708 | 1710 | 1713 | rVB | 135151 | 107380 | 2.46% | 0.216% |
| 48 | 12.304 | 1734 | 1737 | 1739 | rBV | 121584 | 111679 | 2.56% | 0.224% |
| 49 | 12.327 | 1739 | 1741 | 1747 | rVB | 167902 | 151200 | 3.47% | 0.304% |
| 50 | 12.451 | 1757 | 1762 | 1764 | rBV2 | 53889 | 55596 | 1.28% | 0.112% |
| 51 | 12.557 | 1777 | 1780 | 1783 | rBV | 108460 | 111095 | 2.55% | 0.223% |
| 52 | 12.645 | 1792 | 1795 | 1800 | rBV2 | 79591 | 88090 | 2.02% | 0.177% |
| 53 | 12.727 | 1805 | 1809 | 1812 | rVV | 1631955 | 1402785 | 32.18% | 2.819% |
| 54 | 12.786 | 1817 | 1819 | 1826 | rVB5 | 46511 | 69095 | 1.58% | 0.139% |
| 55 | 12.851 | 1826 | 1830 | 1832 | rBV3 | 35982 | 49246 | 1.13% | 0.099% |
| 56 | 12.957 | 1841 | 1848 | 1853 | rBV | 1361205 | 1466347 | 33.64% | 2.947% |
| 57 | 12.998 | 1853 | 1855 | 1860 | rVB2 | 68333 | 75653 | 1.74% | 0.152% |
| 58 | 13.098 | 1864 | 1872 | 1875 | rBV | 3043113 | 3202508 | 73.46% | 6.435% |
| 59 | 13.168 | 1879 | 1884 | 1888 | rBV2 | 89167 | 158097 | 3.63% | 0.318% |
| 60 | 13.257 | 1895 | 1899 | 1900 | rBV3 | 66977 | 76656 | 1.76% | 0.154% |
| 61 | 13.280 | 1900 | 1903 | 1906 | rVB | 225281 | 223139 | 5.12% | 0.448% |
| 62 | 13.351 | 1911 | 1915 | 1917 | rBV | 137725 | 129453 | 2.97% | 0.260% |
| 63 | 13.386 | 1917 | 1921 | 1924 | rBV2 | 119890 | 135458 | 3.11% | 0.272% |
| 64 | 13.480 | 1934 | 1937 | 1940 | rBV2 | 71870 | 61852 | 1.42% | 0.124% |
| 65 | 13.509 | 1940 | 1942 | 1945 | rVV | 77325 | 71889 | 1.65% | 0.144% |
| 66 | 13.792 | 1987 | 1990 | 1994 | rVB | 94125 | 102919 | 2.36% | 0.207% |
| 67 | 13.904 | 2005 | 2009 | 2012 | rBV3 | 127292 | 151969 | 3.49% | 0.305% |
| 68 | 13.933 | 2012 | 2014 | 2016 | rVB | 108017 | 78701 | 1.81% | 0.158% |
| 69 | 13.974 | 2016 | 2021 | 2024 | rBV4 | 553493 | 600353 | 13.77% | 1.206% |
| 70 | 14.157 | 2047 | 2052 | 2055 | rBV2 | 1157909 | 1618756 | 37.13% | 3.253% |
| 71 | 14.180 | 2055 | 2056 | 2062 | rVB | 643175 | 519911 | 11.93% | 1.045% |

LSC Area Percent Report

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Data File : BF103767.D
Acq On : 19 Mar 2018 20:30
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Sample : J1971-05
Misc :
ALS Vial : 10 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** ES-6-SA-3-WW@4.5

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:\HPCHEM1\BNA_F\METHODS\8270-BF031518.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 72 | 14.262 | 2068 | 2070 | 2073 | rVB | 60636 | 51873 | 1.19% | 0.104% |
| 73 | 14.380 | 2087 | 2090 | 2093 | rBV2 | 75117 | 84286 | 1.93% | 0.169% |
| 74 | 14.545 | 2116 | 2118 | 2121 | rVB2 | 101362 | 79321 | 1.82% | 0.159% |
| 75 | 14.580 | 2122 | 2124 | 2127 | rBV2 | 67257 | 59337 | 1.36% | 0.119% |
| 76 | 14.615 | 2128 | 2130 | 2134 | rBV5 | 72092 | 86355 | 1.98% | 0.174% |
| 77 | 14.915 | 2178 | 2181 | 2191 | rVB | 567064 | 681426 | 15.63% | 1.369% |
| 78 | 15.239 | 2231 | 2236 | 2239 | rBV | 399887 | 663568 | 15.22% | 1.333% |
| 79 | 15.351 | 2253 | 2255 | 2258 | rVB | 60877 | 50656 | 1.16% | 0.102% |
| 80 | 15.562 | 2287 | 2291 | 2297 | rVB | 228062 | 317514 | 7.28% | 0.638% |
| 81 | 15.627 | 2298 | 2302 | 2308 | rBV | 307115 | 373309 | 8.56% | 0.750% |
| 82 | 15.692 | 2309 | 2313 | 2317 | rBV | 514147 | 678430 | 15.56% | 1.363% |
| 83 | 17.262 | 2576 | 2580 | 2588 | rVB2 | 144333 | 302068 | 6.93% | 0.607% |
| 84 | 17.739 | 2657 | 2661 | 2673 | rVB2 | 99697 | 225831 | 5.18% | 0.454% |

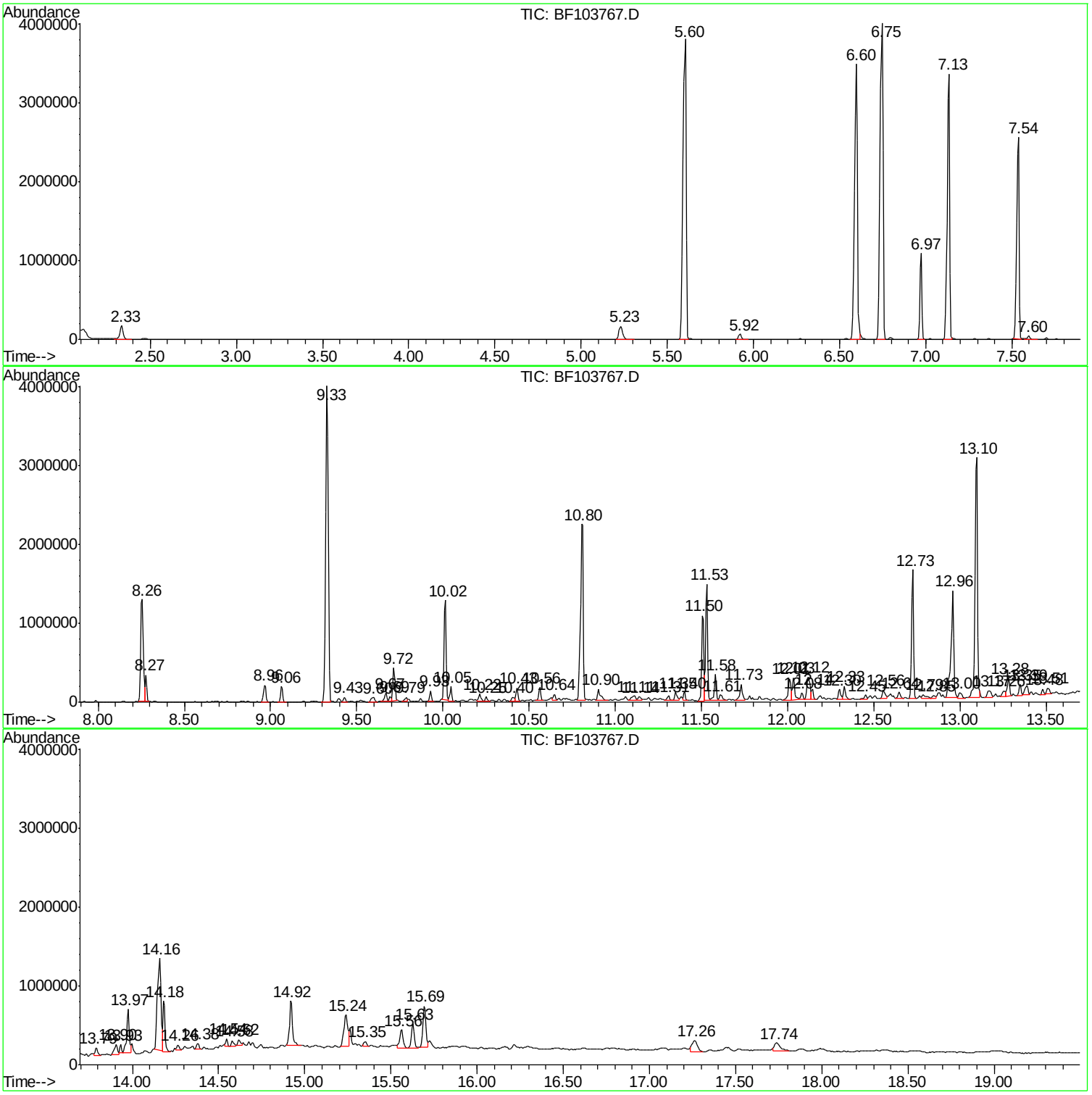
Sum of corrected areas: 49763532

Data Path : Z:\HPCHEM1\BNA F\DATA\BF031918\
Data File : BF103767.D
Acq On : 19 Mar 2018 20:30
Operator : JU/SJ
Sample : J1971-05
Misc :
ALS Vial : 10 Sample Multiplier: 1

**Instrument :**
BNA_F
**ClientSampleId :**
ES-6-SA-3-WW@4.5

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF031518.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P



# Library Search Compound Report

Data Path : Z:\HPCHEM1\BNA F\DATA\BF031918\
Data File : BF103767.D
Acq On : 19 Mar 2018 20:30
Operator : JU/SJ
Sample : J1971-05
Misc :
ALS Vial : 10 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** ES-6-SA-3-WW@4.5

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF031518.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

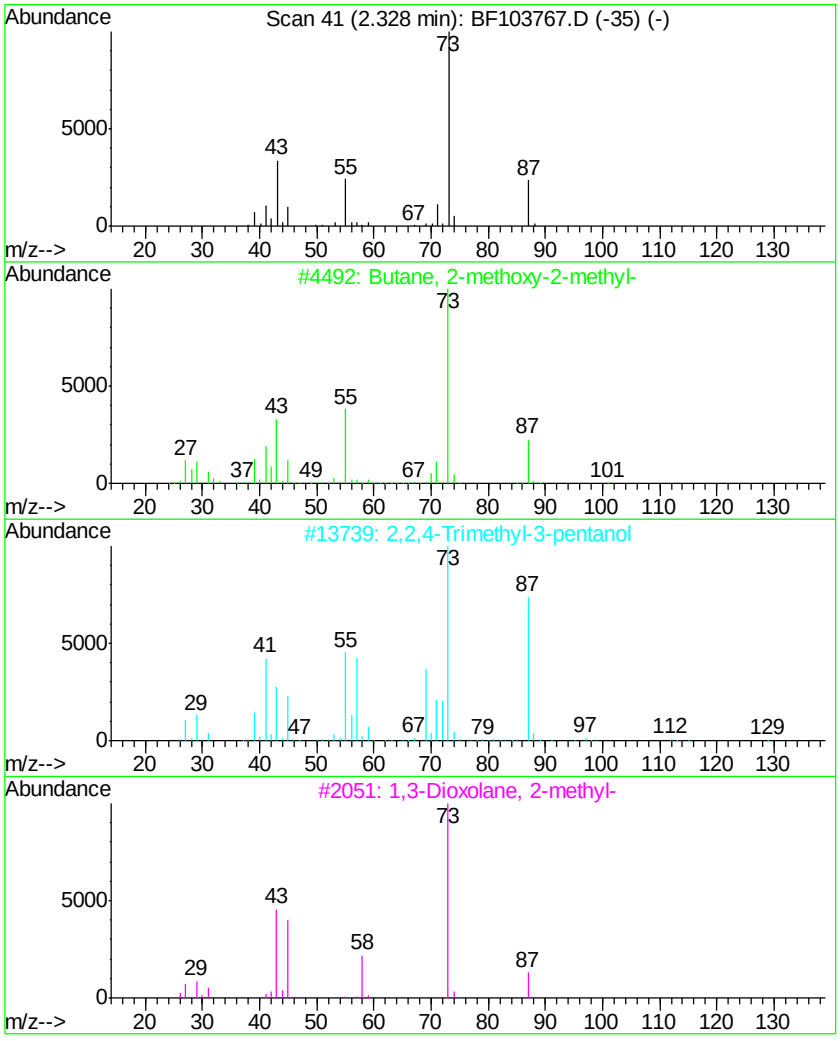
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

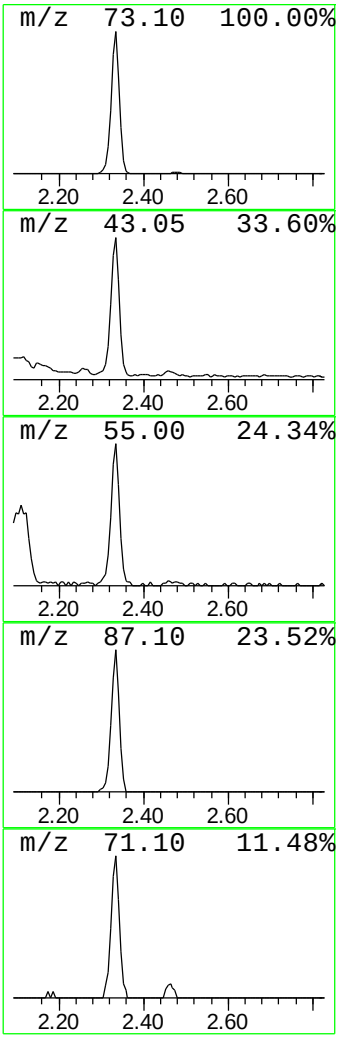
**********

Peak Number 1 Butane, 2-methoxy-2-methyl- Concentration Rank 10

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 2.33 | 5.01 ng | 227518 | 1,4-Dichlorobenzene-d4 | 6.97 |

| 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 | 40 |
| 3 | 1,3-Dioxolane, 2-methyl- | 88 | C4H8O2 | 000497-26-7 | 37 |
| 4 | 3-Hexanol, 2-methyl- | 116 | C7H16O | 000617-29-8 | 17 |
| 5 | Pentane, 3-methoxy- | 102 | C6H14O | 036839-67-5 | 17 |



Data Path : Z:\HPCHEM1\BNA F\DATA\BF031918\
Data File : BF103767.D
Acq On : 19 Mar 2018 20:30
Operator : JU/SJ
Sample : J1971-05
Misc :
ALS Vial : 10 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** ES-6-SA-3-WW@4.5

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF031518.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

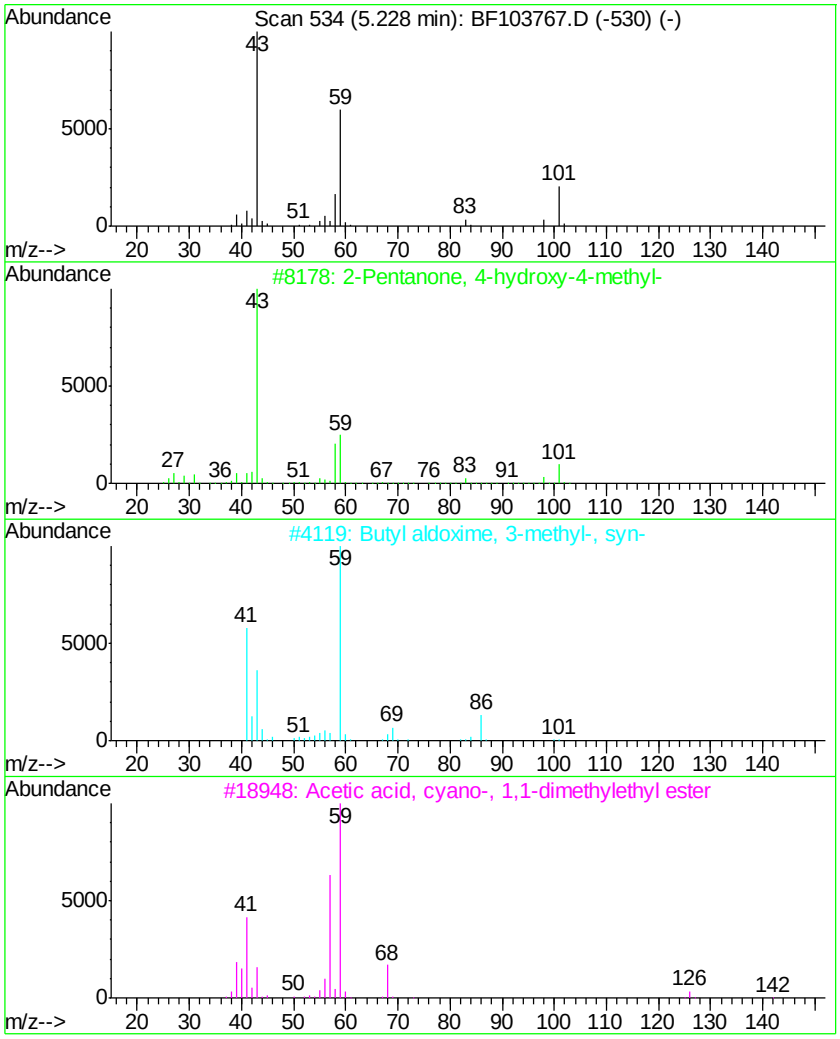
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

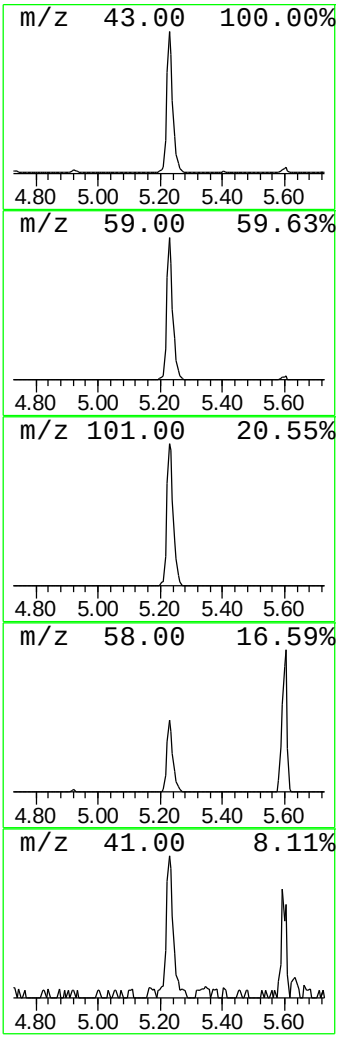
**********

Peak Number 2 2-Pentanone, 4-hydroxy-4-me... Concentration Rank 9

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 5.23 | 5.10 ng | 231451 | 1,4-Dichlorobenzene-d4 | 6.97 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 2-Pentanone, 4-hydroxy-4-methyl- | 116 | C6H12O2 | 000123-42-2 | 59 |
| 2 | Butyl aldoxime, 3-methyl-, syn- | 101 | C5H11NO | 005780-40-5 | 25 |
| 3 | Acetic acid, cyano-, 1,1-dimethy... | 141 | C7H11NO2 | 001116-98-9 | 17 |
| 4 | Guanidine | 59 | CH5N3 | 000113-00-8 | 9 |
| 5 | Acetone | 58 | C3H6O | 000067-64-1 | 9 |



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Sample : J1971-05
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ALS Vial : 10 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** ES-6-SA-3-WW@4.5

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF031518.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

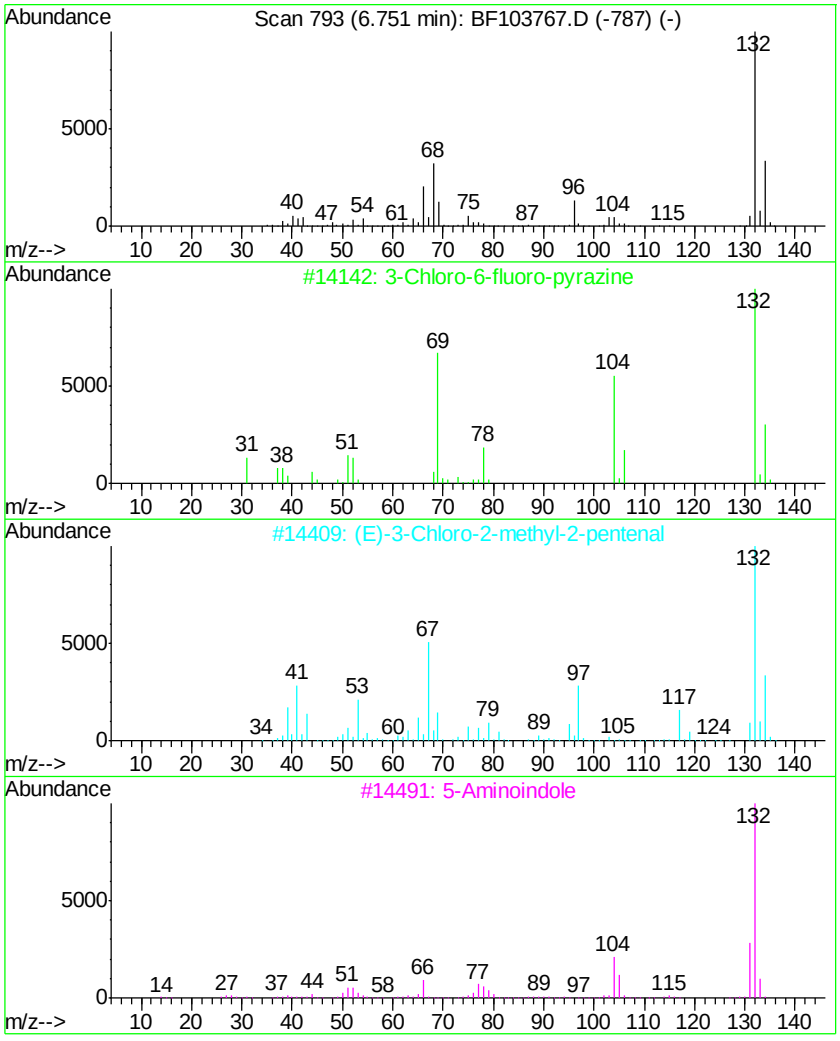
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

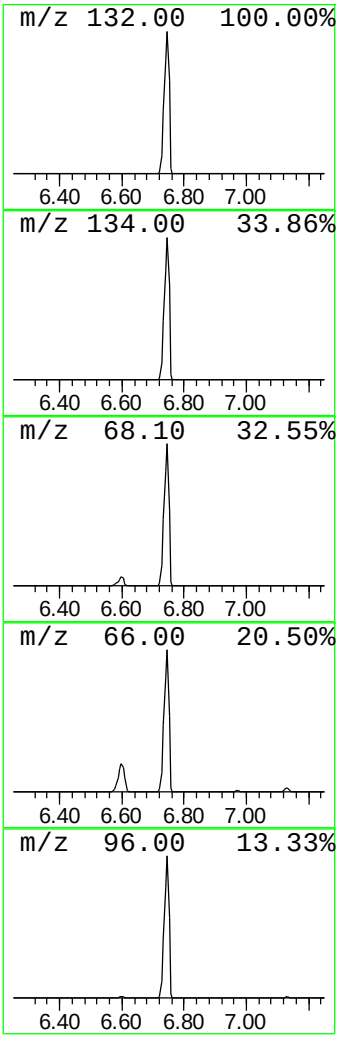
**********

Peak Number 3 unknown6.75 Concentration Rank 1

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 6.75 | 94.06 ng | 4271140 | 1,4-Dichlorobenzene-d4 | 6.97 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 3-Chloro-6-fluoro-pyrazine | 132 | C4H2ClFN2 | 1000146-10-7 | 16 |
| 2 | (E)-3-Chloro-2-methyl-2-pentenal | 132 | C6H9ClO | 031357-76-3 | 16 |
| 3 | 5-Aminoindole | 132 | C8H8N2 | 005192-03-0 | 12 |
| 4 | Tranylcypromine-propionyl | 189 | C12H15NO | 1000123-86-3 | 10 |
| 5 | 4-Chloro-2-fluoro-pyrimidine | 132 | C4H2ClFN2 | 051422-00-5 | 9 |



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Sample : J1971-05
Misc :
ALS Vial : 10 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** ES-6-SA-3-WW@4.5

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF031518.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

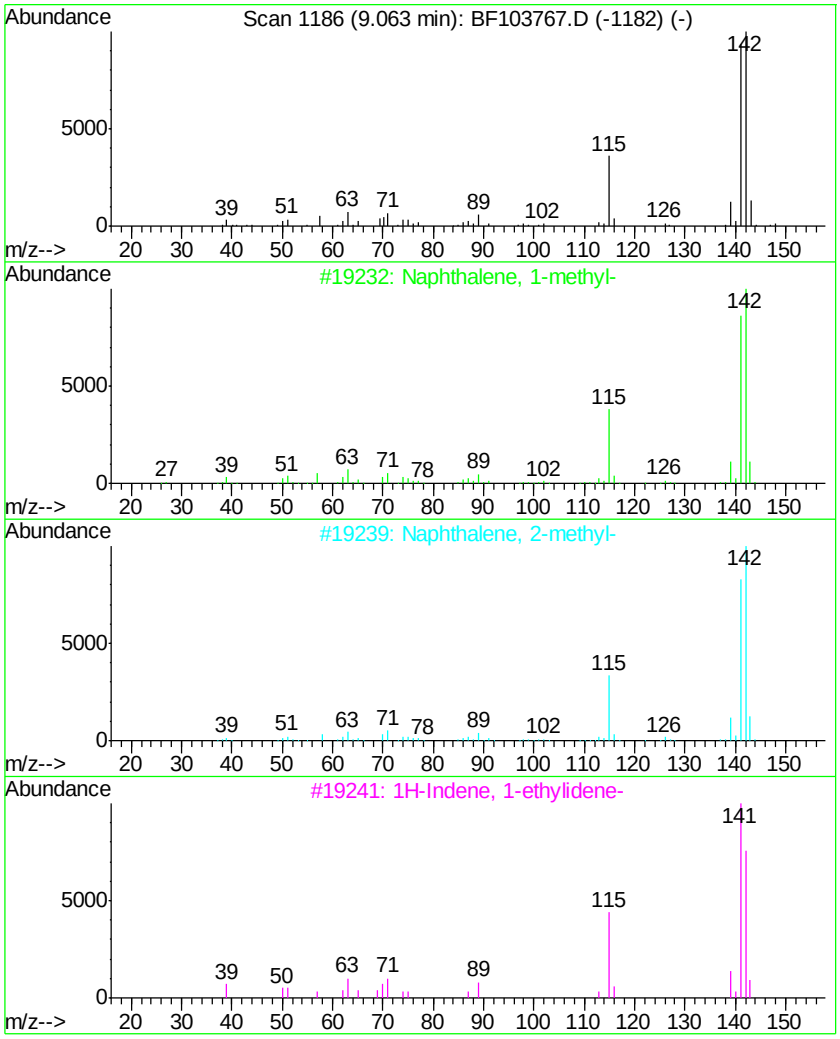
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

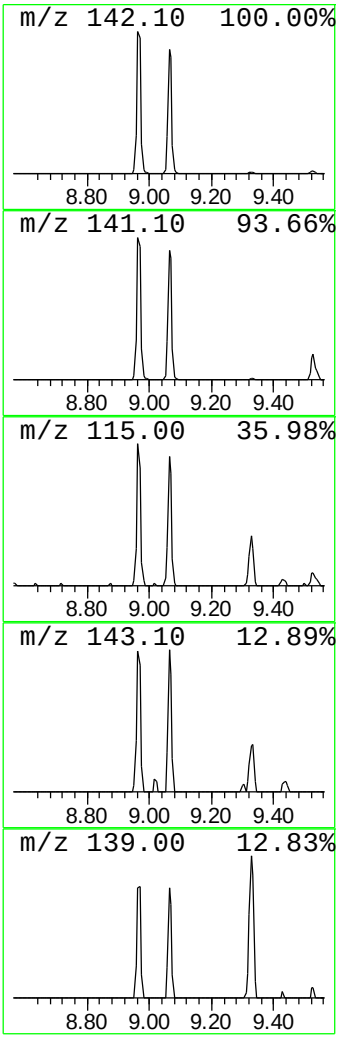
**********

Peak Number 5 Naphthalene, 1-methyl- Concentration Rank 13

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 9.06 | 2.80 ng | 174101 | Naphthalene-d8 | 8.26 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Naphthalene, 1-methyl- | 142 | C11H10 | 000090-12-0 | 96 |
| 2 | Naphthalene, 2-methyl- | 142 | C11H10 | 000091-57-6 | 96 |
| 3 | 1H-Indene, 1-ethylidene- | 142 | C11H10 | 002471-83-2 | 95 |
| 4 | Benzocycloheptatriene | 142 | C11H10 | 000264-09-5 | 94 |
| 5 | Bicyclo[4.4.1]undeca-1,3,5,7,9-p... | 142 | C11H10 | 002443-46-1 | 91 |



Data Path : Z:\HPCHEM1\BNA F\DATA\BF031918\
Data File : BF103767.D
Acq On : 19 Mar 2018 20:30
Operator : JU/SJ
Sample : J1971-05
Misc :
ALS Vial : 10 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** ES-6-SA-3-WW@4.5

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF031518.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

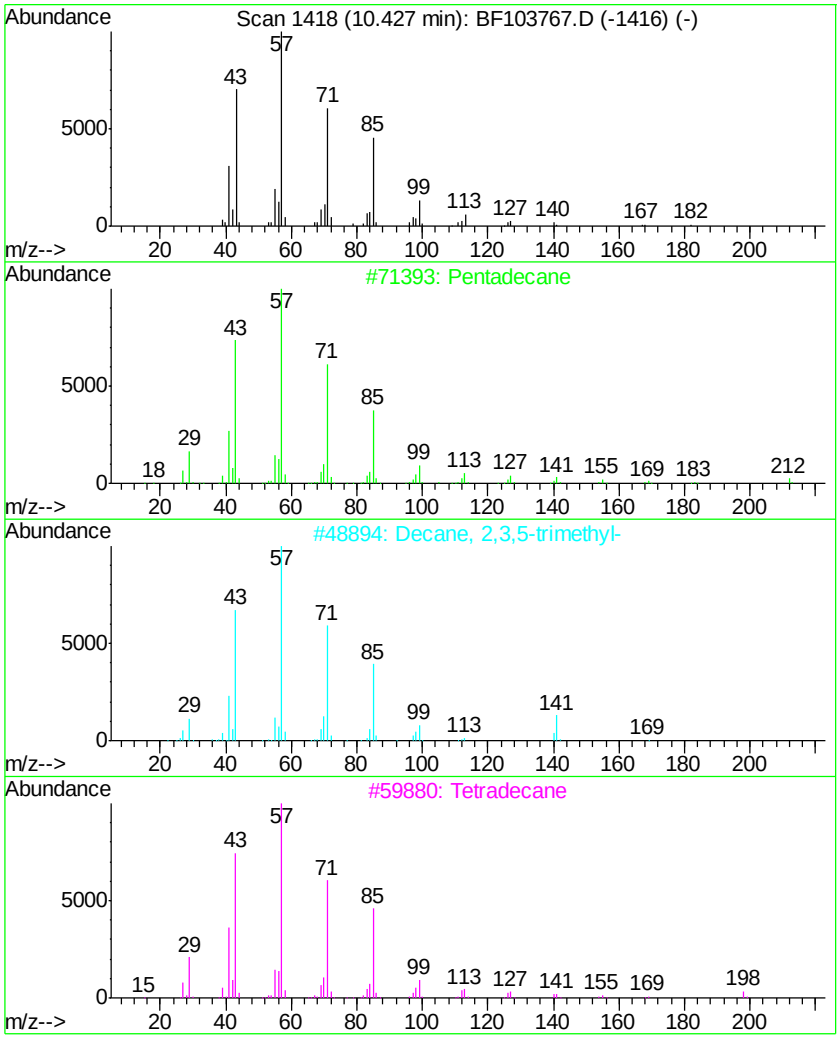
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

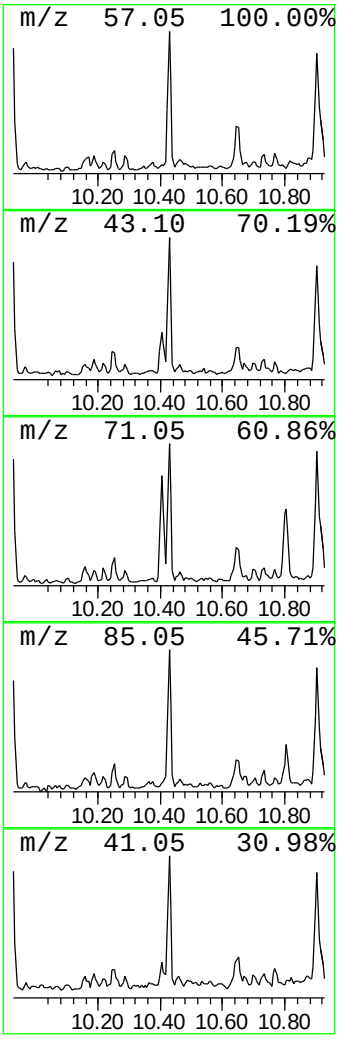
**********

Peak Number 6 Pentadecane Concentration Rank 15

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 10.43 | 2.35 ng | 136288 | Acenaphthene-d10 | 10.02 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Pentadecane | 212 | C15H32 | 000629-62-9 | 90 |
| 2 | Decane, 2,3,5-trimethyl- | 184 | C13H28 | 062238-11-3 | 90 |
| 3 | Tetradecane | 198 | C14H30 | 000629-59-4 | 86 |
| 4 | Hexadecane | 226 | C16H34 | 000544-76-3 | 83 |
| 5 | Heptadecane | 240 | C17H36 | 000629-78-7 | 83 |



Data Path : Z:\HPCHEM1\BNA F\DATA\BF031918\
Data File : BF103767.D
Acq On : 19 Mar 2018 20:30
Operator : JU/SJ
Sample : J1971-05
Misc :
ALS Vial : 10 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** ES-6-SA-3-WW@4.5

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF031518.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

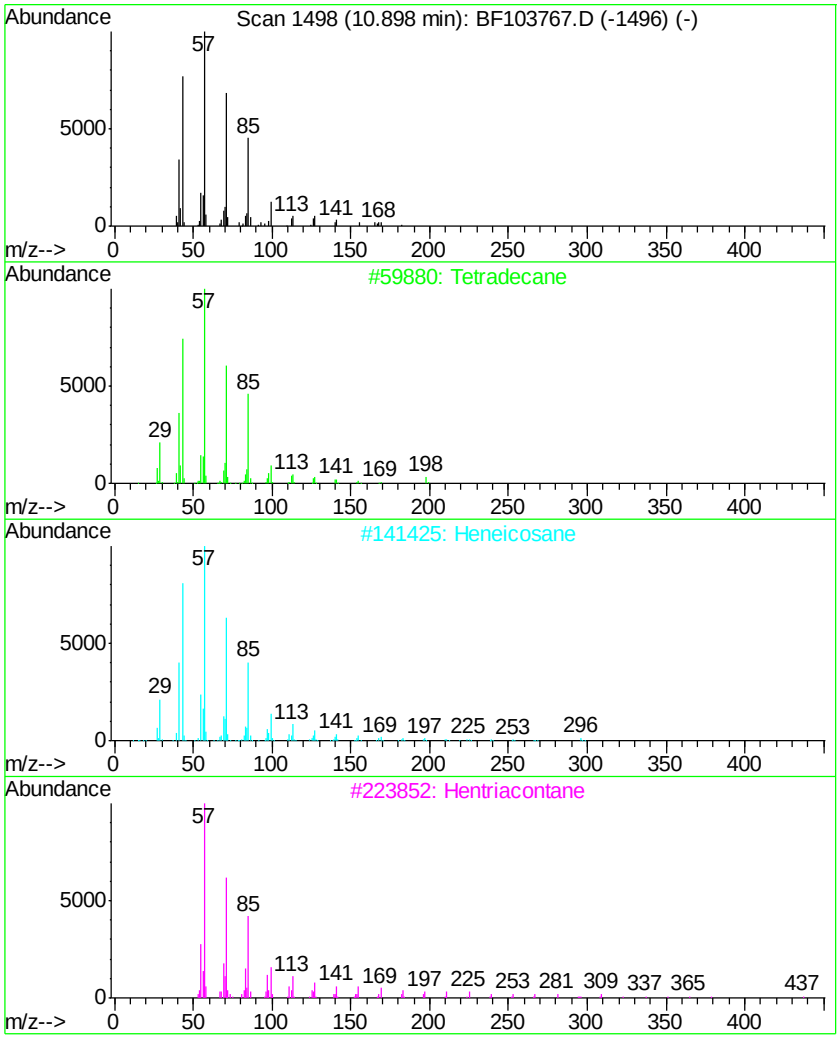
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

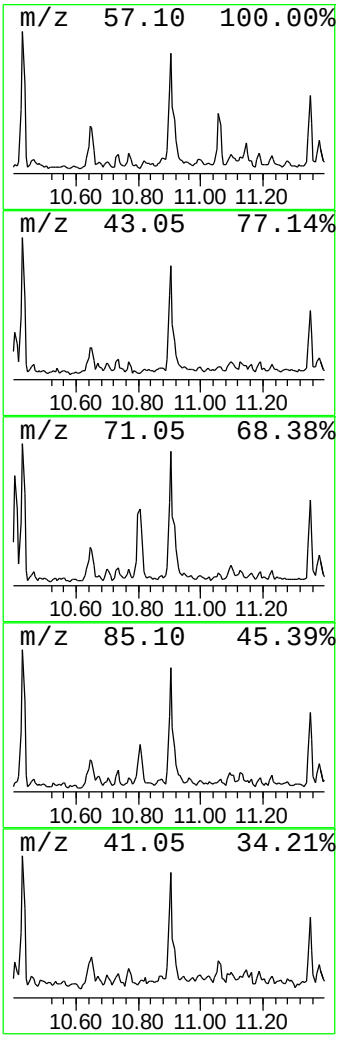
**********

Peak Number 7 Tetradecane Concentration Rank 11

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 10.90 | 3.16 ng | 161912 | Phenanthrene-d10 | 11.50 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Tetradecane | 198 | C14H30 | 000629-59-4 | 90 |
| 2 | Heneicosane | 296 | C21H44 | 000629-94-7 | 80 |
| 3 | Hentriacontane | 437 | C31H64 | 000630-04-6 | 78 |
| 4 | Tridecane, 1-iodo- | 310 | C13H27I | 035599-77-0 | 78 |
| 5 | Pentadecane | 212 | C15H32 | 000629-62-9 | 72 |



Data Path : Z:\HPCHEM1\BNA F\DATA\BF031918\
Data File : BF103767.D
Acq On : 19 Mar 2018 20:30
Operator : JU/SJ
Sample : J1971-05
Misc :
ALS Vial : 10 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** ES-6-SA-3-WW@4.5

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF031518.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

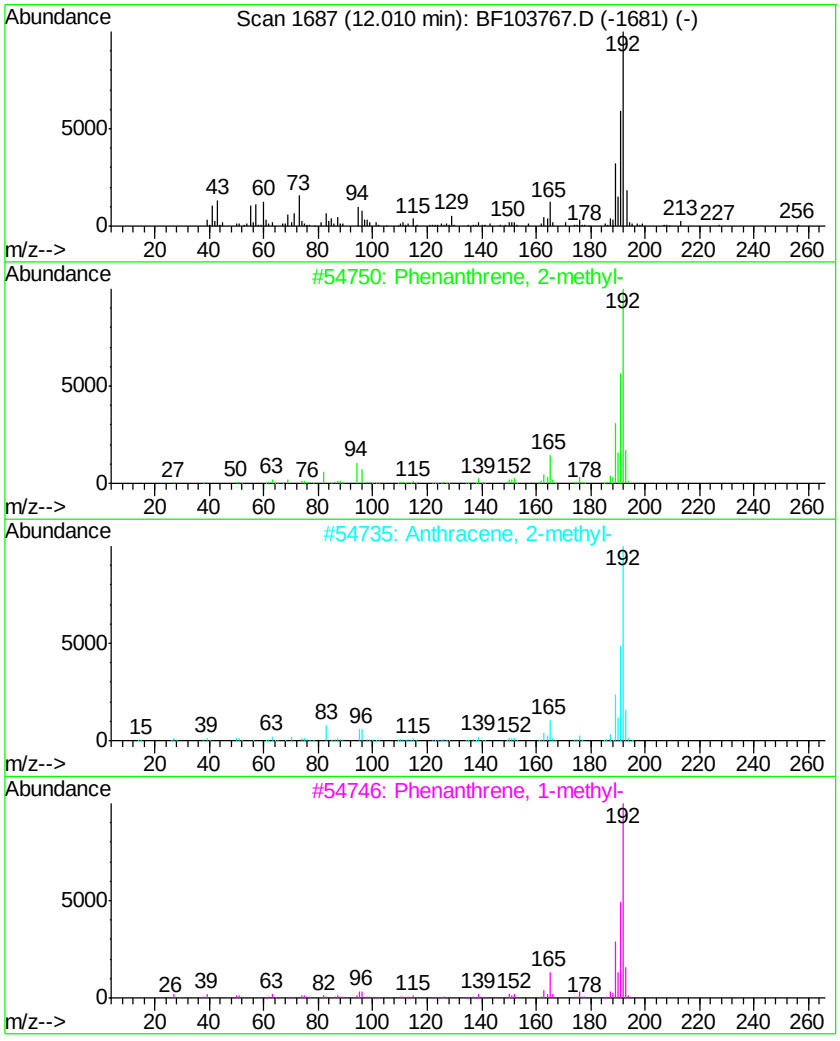
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

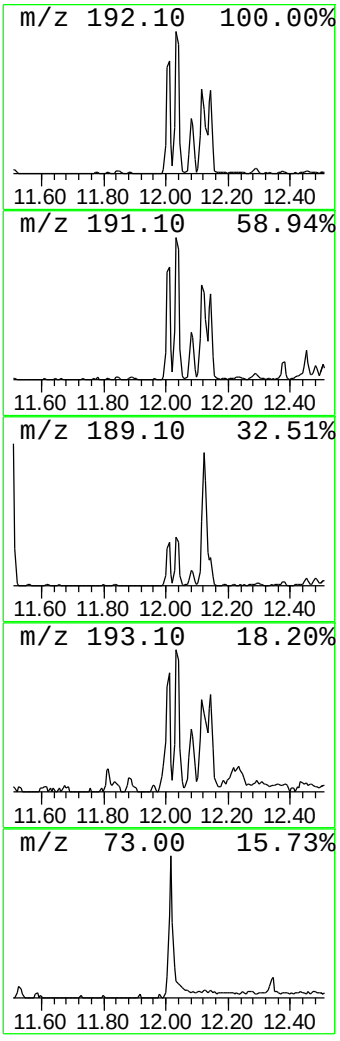
**********

Peak Number 8 Phenanthrene, 2-methyl- Concentration Rank 6

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 12.01 | 6.46 ng | 330670 | Phenanthrene-d10 | 11.50 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Phenanthrene, 2-methyl- | 192 | C15H12 | 002531-84-2 | 98 |
| 2 | Anthracene, 2-methyl- | 192 | C15H12 | 000613-12-7 | 96 |
| 3 | Phenanthrene, 1-methyl- | 192 | C15H12 | 000832-69-9 | 96 |
| 4 | 5H-Dibenzo[a,d]cycloheptene | 192 | C15H12 | 000256-81-5 | 94 |
| 5 | Anthracene, 9-methyl- | 192 | C15H12 | 000779-02-2 | 94 |



Data Path : Z:\HPCHEM1\BNA F\DATA\BF031918\
Data File : BF103767.D
Acq On : 19 Mar 2018 20:30
Operator : JU/SJ
Sample : J1971-05
Misc :
ALS Vial : 10 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** ES-6-SA-3-WW@4.5

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF031518.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

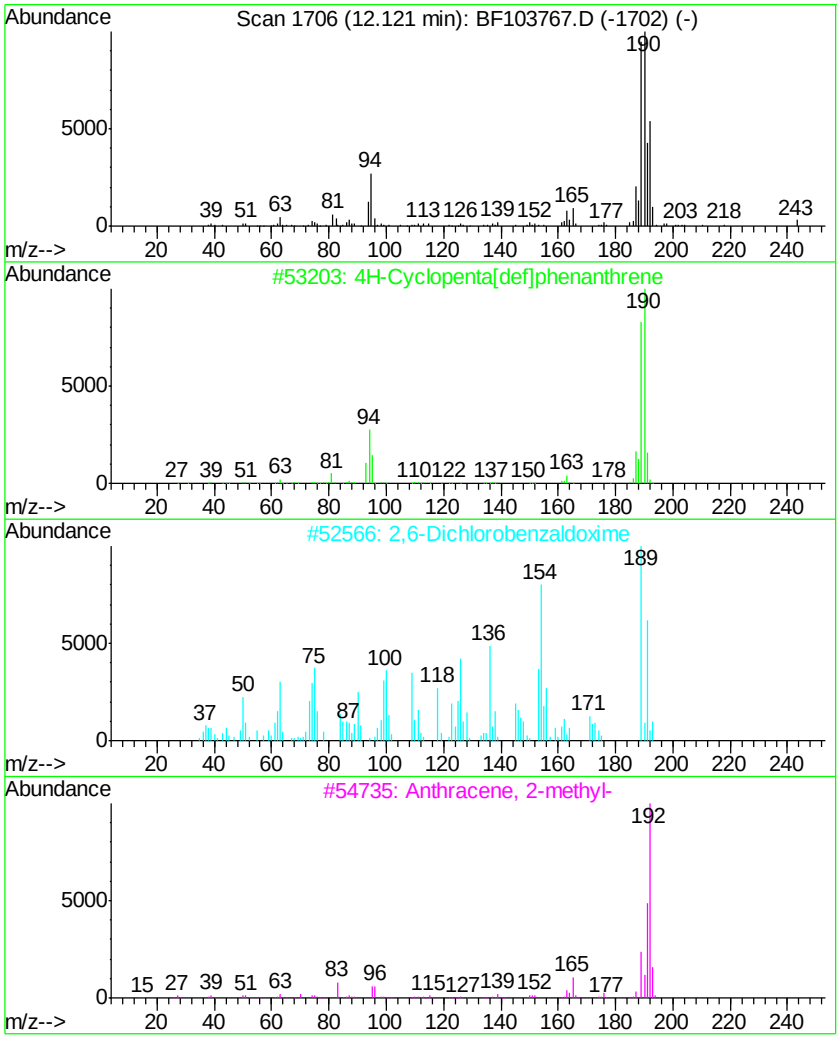
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

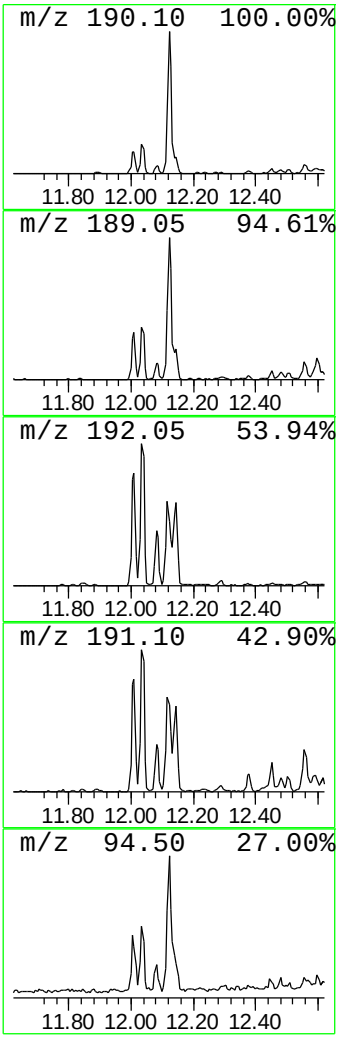
**********

Peak Number 10 4H-Cyclopenta[def]phenanthrene Concentration Rank 7

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 12.12 | 5.97 ng | 305453 | Phenanthrene-d10 | 11.50 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 4H-Cyclopenta[def]phenanthrene | 190 | C15H10 | 000203-64-5 | 93 |
| 2 | 2,6-Dichlorobenzaldoxime | 189 | C7H5Cl2NO | 025185-95-9 | 42 |
| 3 | Anthracene, 2-methyl- | 192 | C15H12 | 000613-12-7 | 25 |
| 4 | 5H-Dibenzo[a,d]cycloheptene | 192 | C15H12 | 000256-81-5 | 25 |
| 5 | Anthracene, 1-methyl- | 192 | C15H12 | 000610-48-0 | 25 |



Data Path : Z:\HPCHEM1\BNA F\DATA\BF031918\
Data File : BF103767.D
Acq On : 19 Mar 2018 20:30
Operator : JU/SJ
Sample : J1971-05
Misc :
ALS Vial : 10 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** ES-6-SA-3-WW@4.5

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF031518.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

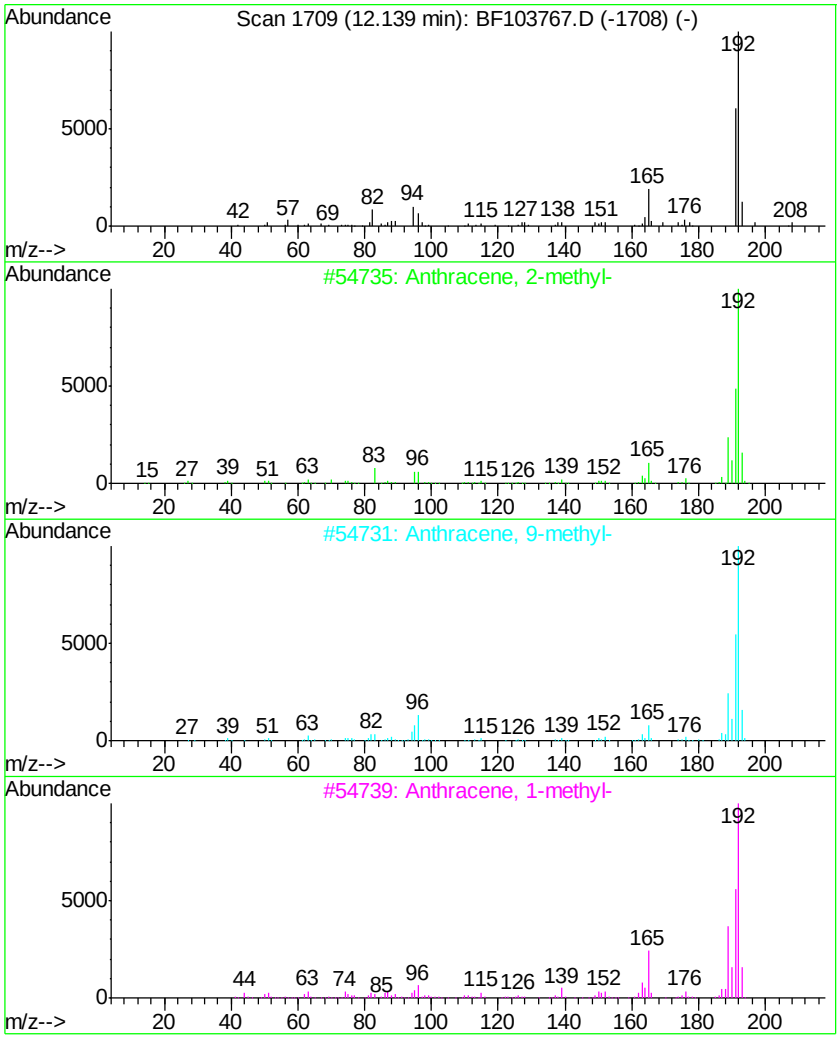
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

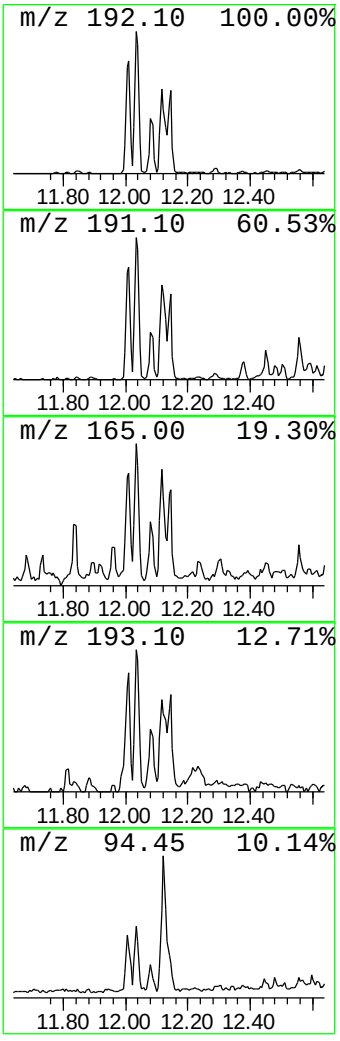
**********

Peak Number 11 Anthracene, 2-methyl- Concentration Rank 18

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 12.14 | 2.10 ng | 107380 | Phenanthrene-d10 | 11.50 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Anthracene, 2-methyl- | 192 | C15H12 | 000613-12-7 | 90 |
| 2 | Anthracene, 9-methyl- | 192 | C15H12 | 000779-02-2 | 90 |
| 3 | Anthracene, 1-methyl- | 192 | C15H12 | 000610-48-0 | 87 |
| 4 | Phenanthrene, 9-methyl- | 192 | C15H12 | 000883-20-5 | 86 |
| 5 | Phenanthrene, 4-methyl- | 192 | C15H12 | 000832-64-4 | 86 |



Data Path : Z:\HPCHEM1\BNA F\DATA\BF031918\
Data File : BF103767.D
Acq On : 19 Mar 2018 20:30
Operator : JU/SJ
Sample : J1971-05
Misc :
ALS Vial : 10 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** ES-6-SA-3-WW@4.5

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF031518.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

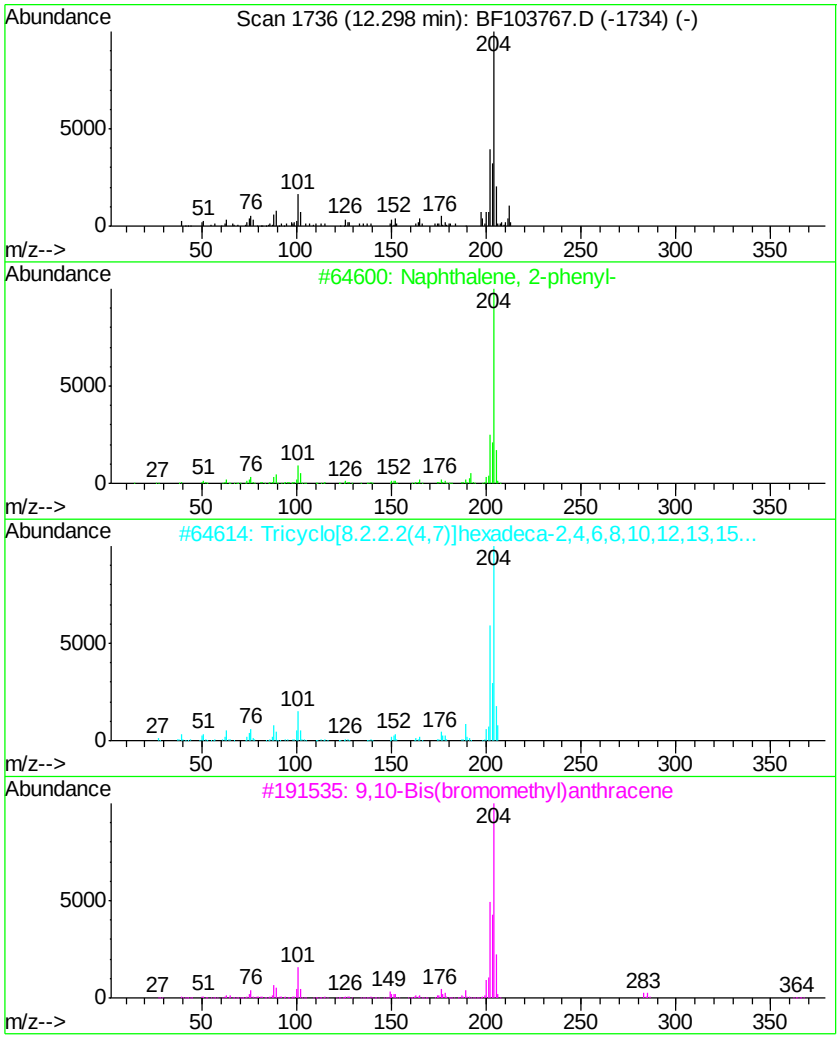
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

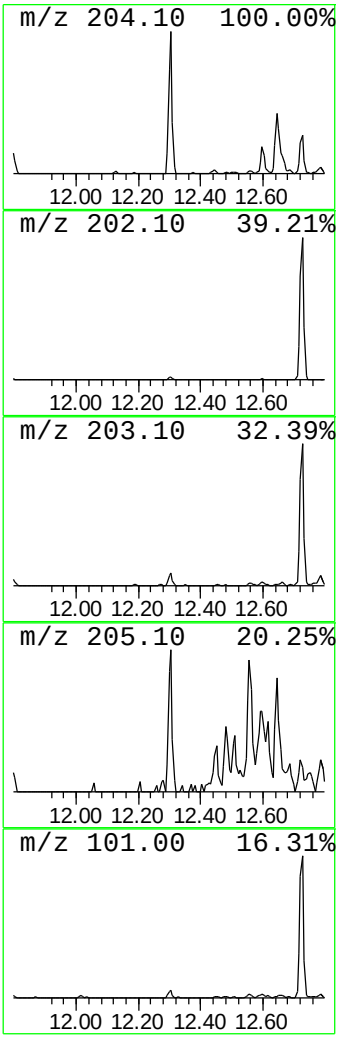
**********

Peak Number 12 Naphthalene, 2-phenyl- Concentration Rank 16

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 12.30 | 2.18 ng | 111679 | Phenanthrene-d10 | 11.50 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Naphthalene, 2-phenyl- | 204 | C16H12 | 000612-94-2 | 95 |
| 2 | Tricyclo[8.2.2.2(4,7)]hexadeca-2... | 204 | C16H12 | 006572-60-7 | 70 |
| 3 | 9,10-Bis(bromomethyl)anthracene | 362 | C16H12Br2 | 034373-96-1 | 62 |
| 4 | Naphthalene, 1-phenyl- | 204 | C16H12 | 000605-02-7 | 55 |
| 5 | 3,4-Biphenyldicarbonitrile | 204 | C14H8N2 | 004128-63-6 | 50 |



Data Path : Z:\HPCHEM1\BNA F\DATA\BF031918\
Data File : BF103767.D
Acq On : 19 Mar 2018 20:30
Operator : JU/SJ
Sample : J1971-05
Misc :
ALS Vial : 10 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** ES-6-SA-3-WW@4.5

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF031518.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

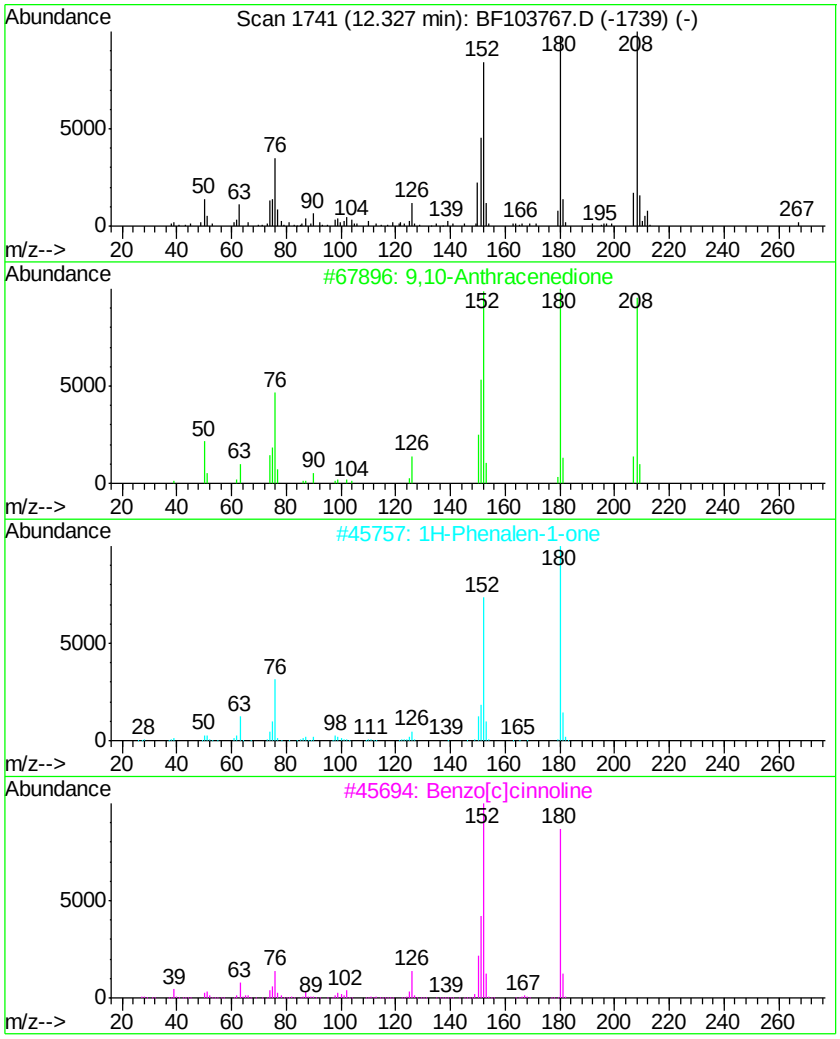
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

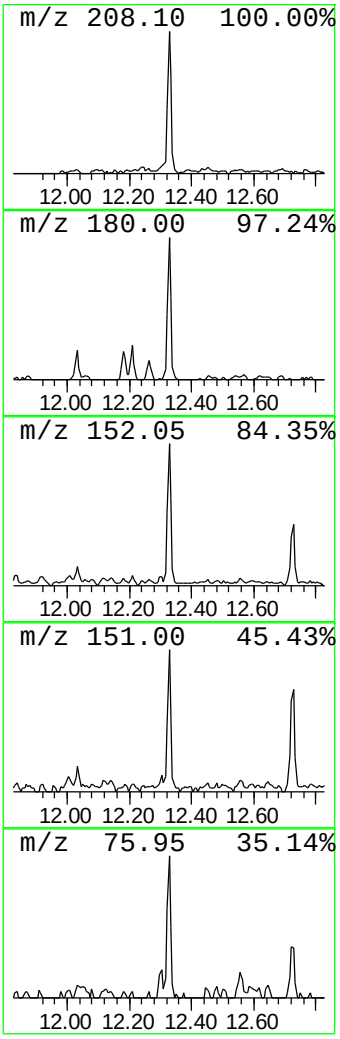
**********

Peak Number 13 9,10-Anthracenedione Concentration Rank 12

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 12.33 | 2.95 ng | 151200 | Phenanthrene-d10 | 11.50 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 9,10-Anthracenedione | 208 | C14H8O2 | 000084-65-1 | 97 |
| 2 | 1H-Phenalen-1-one | 180 | C13H8O | 000548-39-0 | 90 |
| 3 | Benzo[c]cinnoline | 180 | C12H8N2 | 000230-17-1 | 86 |
| 4 | 9H-Fluoren-9-one | 180 | C13H8O | 000486-25-9 | 86 |
| 5 | 1,4-Anthracenedione | 208 | C14H8O2 | 000635-12-1 | 49 |



Data Path : Z:\HPCHEM1\BNA F\DATA\BF031918\
Data File : BF103767.D
Acq On : 19 Mar 2018 20:30
Operator : JU/SJ
Sample : J1971-05
Misc :
ALS Vial : 10 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** ES-6-SA-3-WW@4.5

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF031518.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

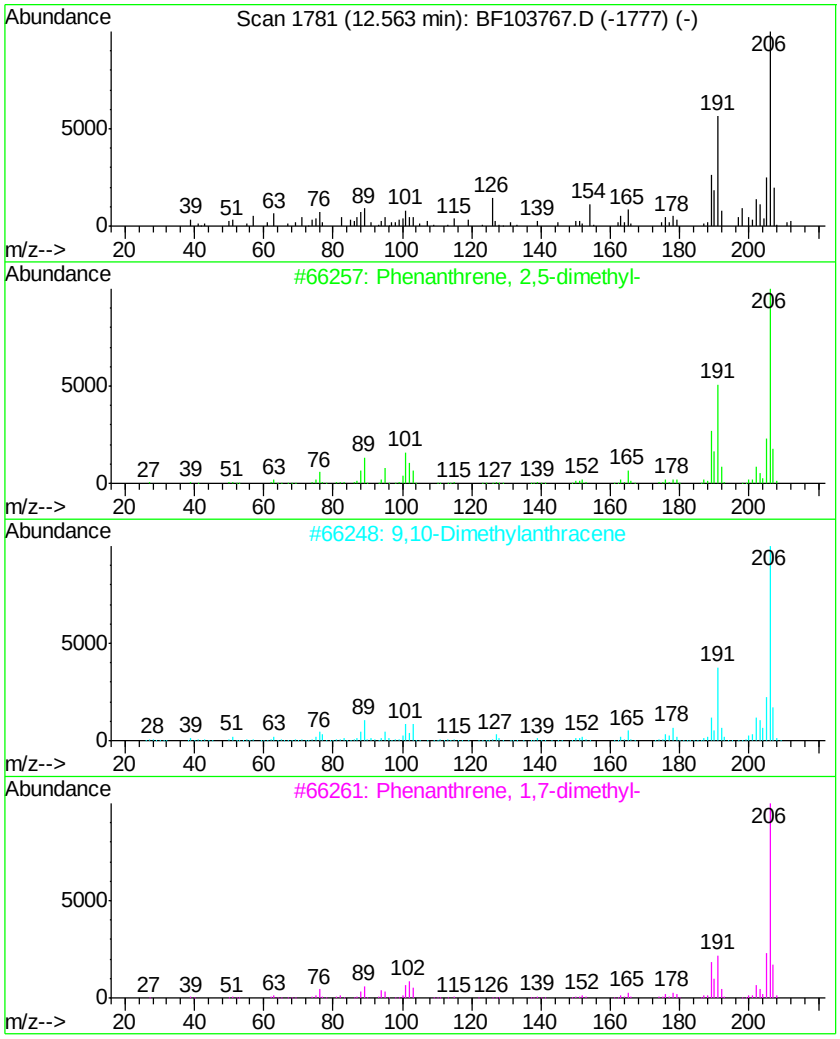
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

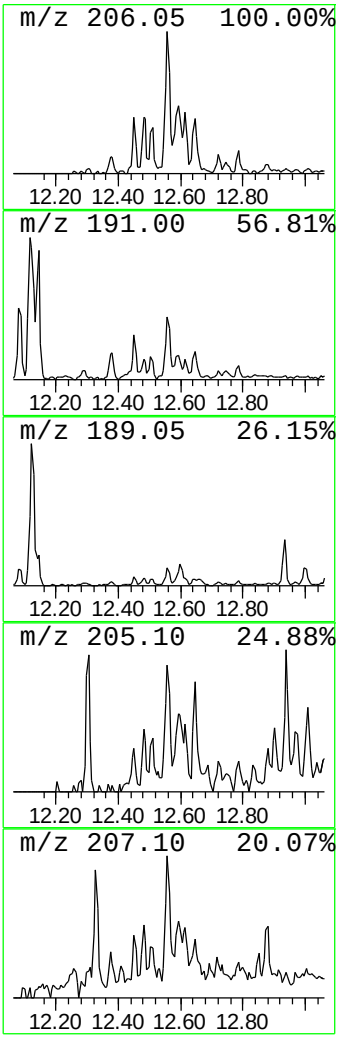
**********

Peak Number 14 Phenanthrene, 2,5-dimethyl- Concentration Rank 17

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 12.56 | 2.17 ng | 111095 | Phenanthrene-d10 | 11.50 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Phenanthrene, 2,5-dimethyl- | 206 | C16H14 | 003674-66-6 | 93 |
| 2 | 9,10-Dimethylanthracene | 206 | C16H14 | 000781-43-1 | 93 |
| 3 | Phenanthrene, 1,7-dimethyl- | 206 | C16H14 | 000483-87-4 | 90 |
| 4 | Phenanthrene, 3,6-dimethyl- | 206 | C16H14 | 001576-67-6 | 89 |
| 5 | Phenanthrene, 2,3-dimethyl- | 206 | C16H14 | 003674-65-5 | 87 |



Data Path : Z:\HPCHEM1\BNA F\DATA\BF031918\
Data File : BF103767.D
Acq On : 19 Mar 2018 20:30
Operator : JU/SJ
Sample : J1971-05
Misc :
ALS Vial : 10 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** ES-6-SA-3-WW@4.5

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF031518.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

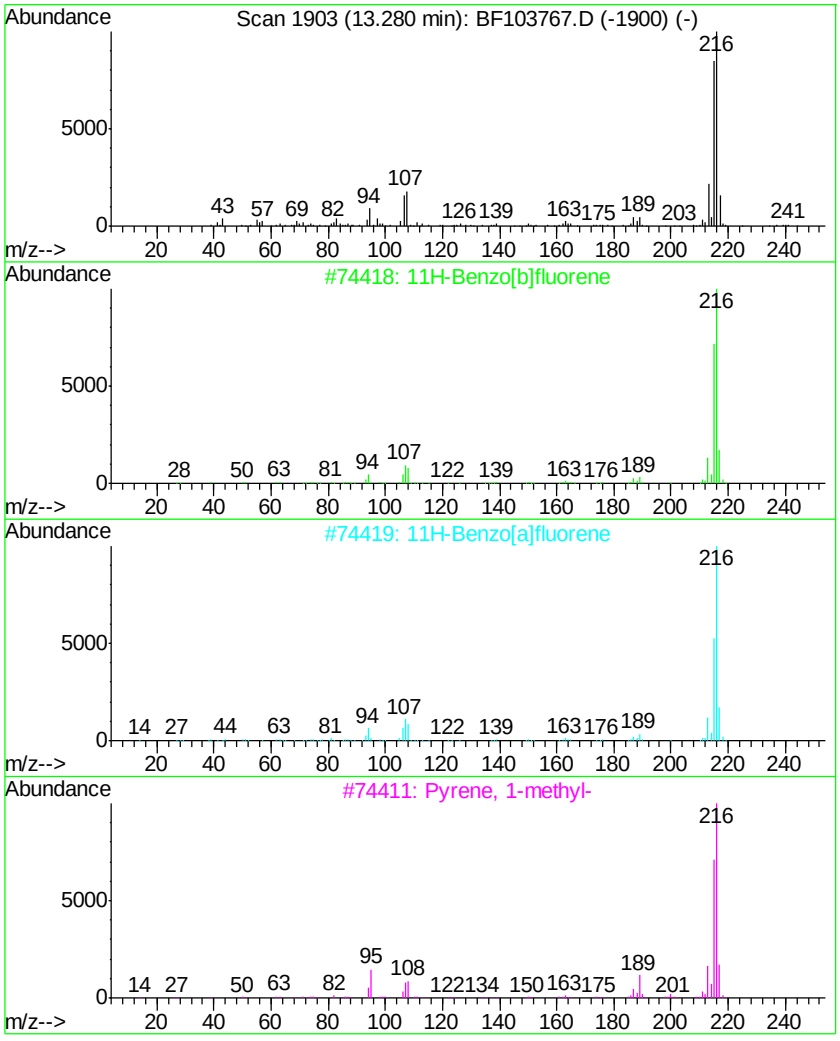
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

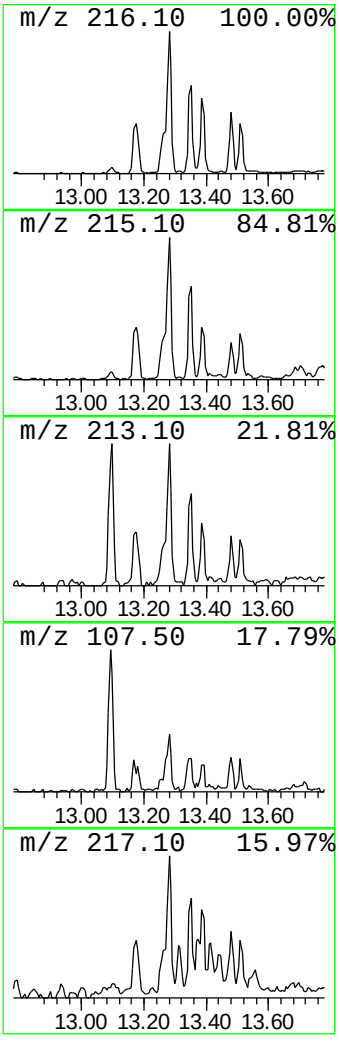
**********

Peak Number 15 11H-Benzo[b]fluorene Concentration Rank 14

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 13.28 | 2.76 ng | 223139 | Chrysene-d12 | 14.16 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 11H-Benzo[b]fluorene | 216 | C17H12 | 000243-17-4 | 90 |
| 2 | 11H-Benzo[a]fluorene | 216 | C17H12 | 000238-84-6 | 90 |
| 3 | Pyrene, 1-methyl- | 216 | C17H12 | 002381-21-7 | 87 |
| 4 | Pyrene, 2-methyl- | 216 | C17H12 | 003442-78-2 | 76 |
| 5 | Fluoranthene, 2-methyl- | 216 | C17H12 | 033543-31-6 | 76 |



Data Path : Z:\HPCHEM1\BNA F\DATA\BF031918\
Data File : BF103767.D
Acq On : 19 Mar 2018 20:30
Operator : JU/SJ
Sample : J1971-05
Misc :
ALS Vial : 10 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** ES-6-SA-3-WW@4.5

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF031518.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

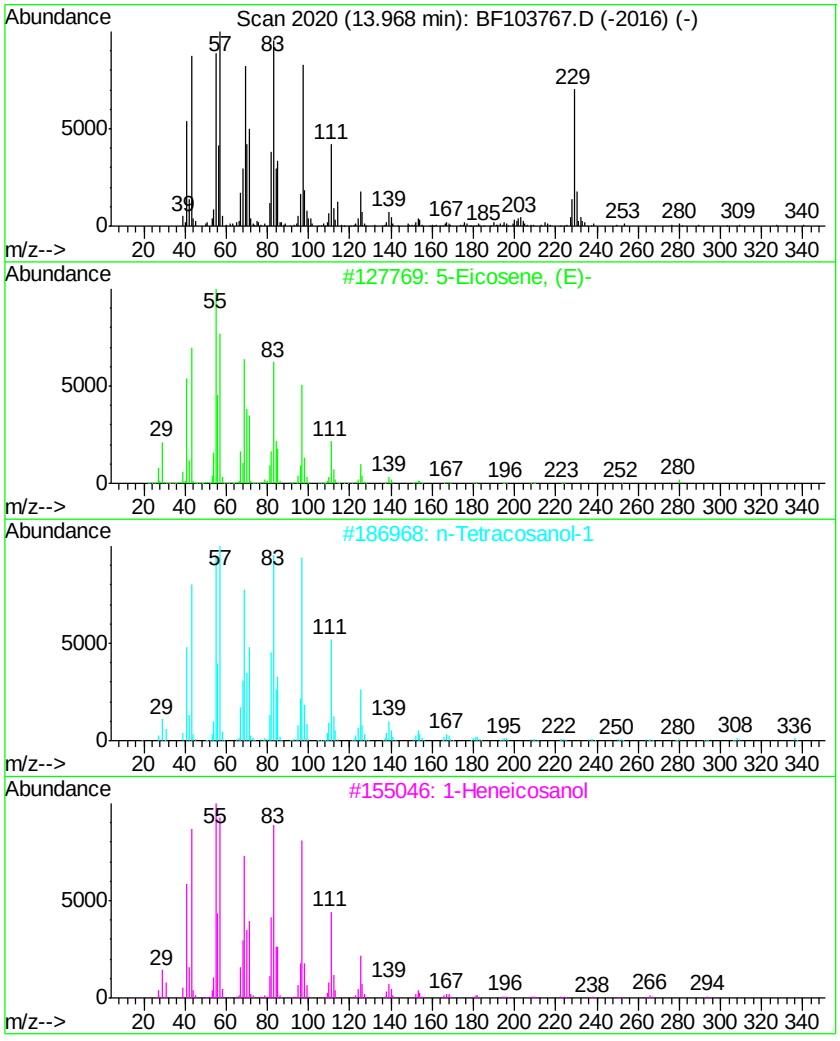
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

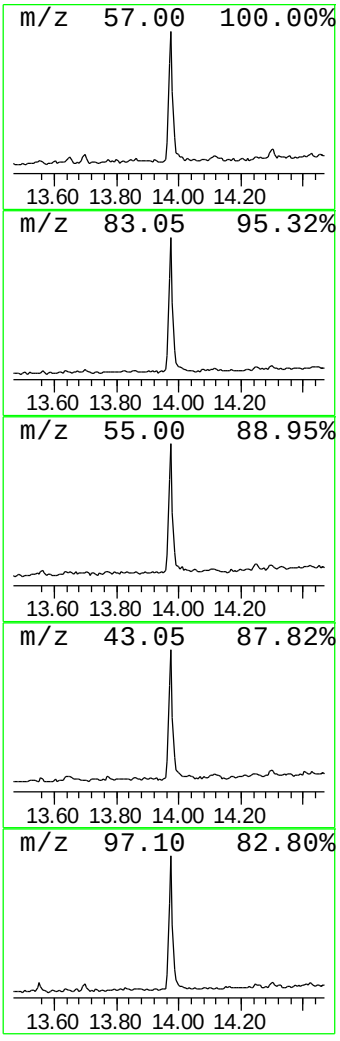
**********

Peak Number 16 5-Eicosene, (E)- Concentration Rank 5

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 13.97 | 7.42 ng | 600353 | Chrysene-d12 | 14.16 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 5-Eicosene, (E)- | 280 | C20H40 | 074685-30-6 | 95 |
| 2 | n-Tetracosanol-1 | 354 | C24H50O | 000506-51-4 | 95 |
| 3 | 1-Heneicosanol | 312 | C21H44O | 015594-90-8 | 95 |
| 4 | n-Nonadecanol-1 | 284 | C19H40O | 001454-84-8 | 95 |
| 5 | 1-Heneicosyl formate | 340 | C22H44O2 | 077899-03-7 | 91 |



Data Path : Z:\HPCHEM1\BNA F\DATA\BF031918\
Data File : BF103767.D
Acq On : 19 Mar 2018 20:30
Operator : JU/SJ
Sample : J1971-05
Misc :
ALS Vial : 10 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** ES-6-SA-3-WW@4.5

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF031518.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

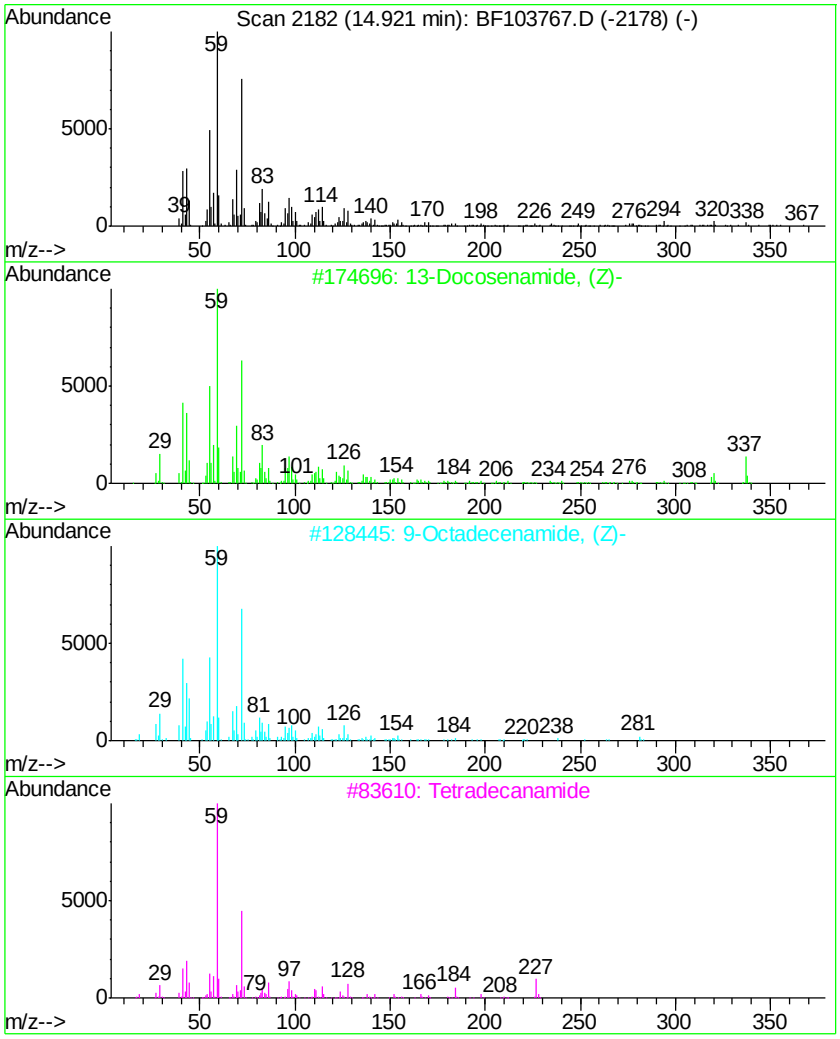
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

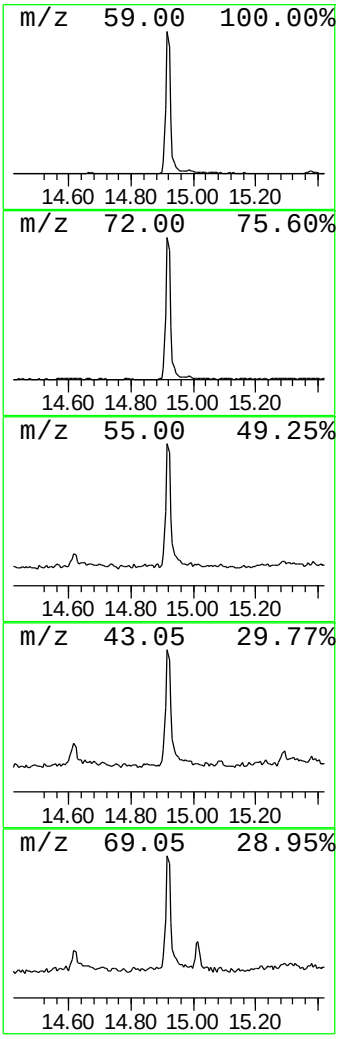
**********

Peak Number 17 13-Docosenamide, (Z)- Concentration Rank 4

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 14.92 | 8.42 ng | 681426 | Chrysene-d12 | 14.16 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 13-Docosenamide, (Z)- | 337 | C22H43NO | 000112-84-5 | 96 |
| 2 | 9-Octadecenamide, (Z)- | 281 | C18H35NO | 000301-02-0 | 91 |
| 3 | Tetradecanamide | 227 | C14H29NO | 000638-58-4 | 50 |
| 4 | Decanamide- | 171 | C10H21NO | 002319-29-1 | 47 |
| 5 | Dodecanamide | 199 | C12H25NO | 001120-16-7 | 42 |



Data Path : Z:\HPCHEM1\BNA F\DATA\BF031918\
Data File : BF103767.D
Acq On : 19 Mar 2018 20:30
Operator : JU/SJ
Sample : J1971-05
Misc :
ALS Vial : 10 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** ES-6-SA-3-WW@4.5

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF031518.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

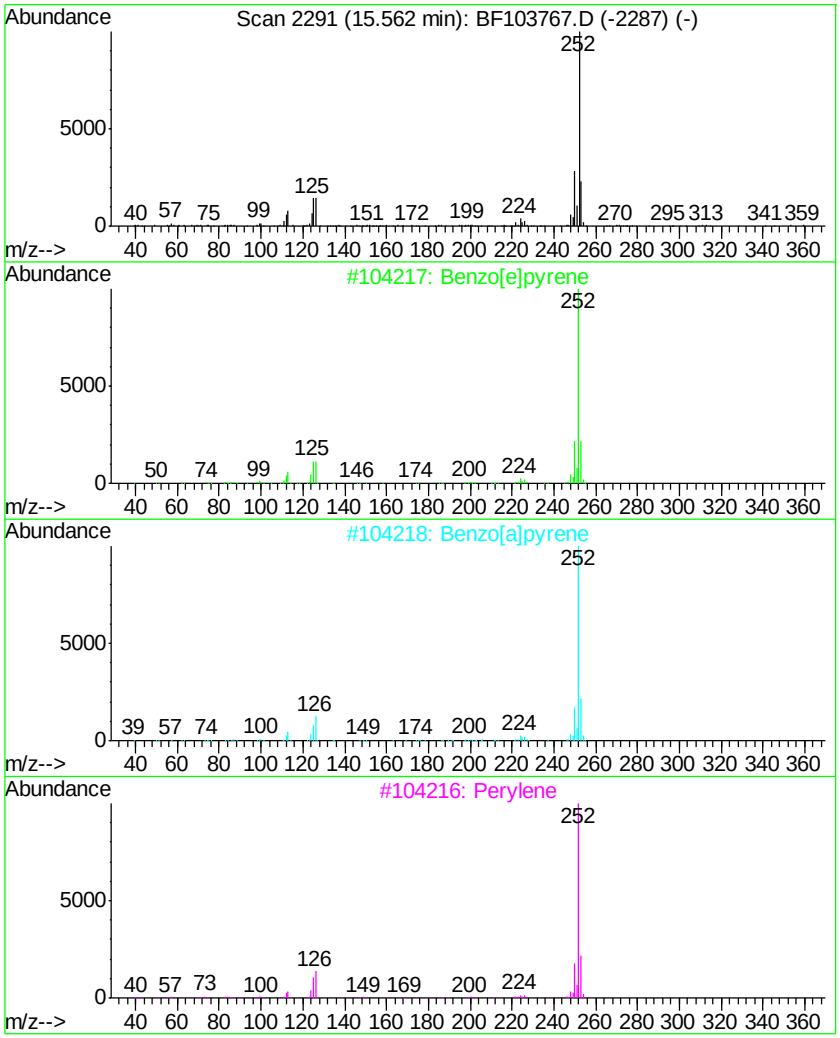
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

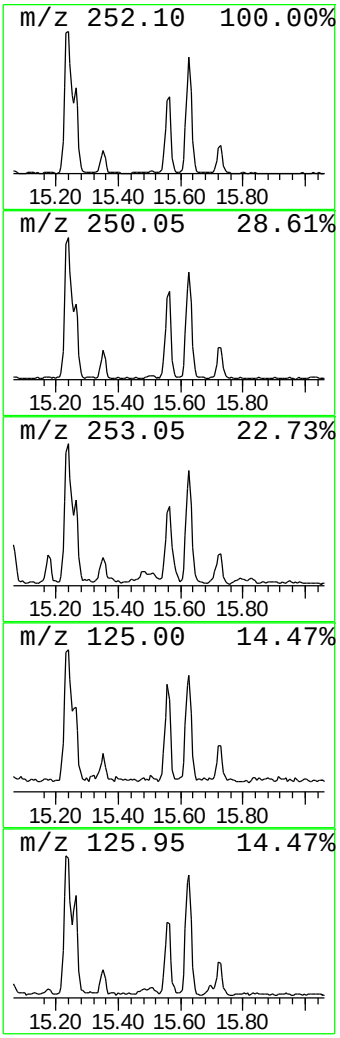
**********

Peak Number 18 Benzo[e]pyrene Concentration Rank 3

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 15.56 | 9.36 ng | 317514 | Perylene-d12 | 15.69 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Benzo[e]pyrene | 252 | C20H12 | 000192-97-2 | 98 |
| 2 | Benzo[a]pyrene | 252 | C20H12 | 000050-32-8 | 96 |
| 3 | Perylene | 252 | C20H12 | 000198-55-0 | 95 |
| 4 | Benz[e]acephenanthrylene | 252 | C20H12 | 000205-99-2 | 93 |
| 5 | Benzo[k]fluoranthene | 252 | C20H12 | 000207-08-9 | 93 |



Tentatively Identified Compound (LSC) summary

Data Path : Z:\HPCHEM1\BNA_F\DATA\BF031918\
Data File : BF103767.D
Acq On : 19 Mar 2018 20:30
Operator : JU/SJ
Sample : J1971-05
Misc :
ALS Vial : 10 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** ES-6-SA-3-WW@4.5

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF031518.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

| | | | | | Internal Standard | | | |
|---|---|---|---|---|---|---|---|---|
| TIC Top Hit name | RT | EstConc | Units | Response | # | RT | Resp | Conc |
| Butane, 2-methoxy... | 2.33 | 5.0 | ng | 227518 | 1 | 6.97 | 908167 | 20.0 |
| 2-Pentanone, 4-hy... | 5.23 | 5.1 | ng | 231451 | 1 | 6.97 | 908167 | 20.0 |
| unknown6.75 | 6.75 | 94.1 | ng | 4271140 | 1 | 6.97 | 908167 | 20.0 |
| Naphthalene, 1-me... | 9.06 | 2.8 | ng | 174101 | 2 | 8.26 | 1245240 | 20.0 |
| Pentadecane | 10.43 | 2.4 | ng | 136288 | 3 | 10.02 | 1161030 | 20.0 |
| Tetradecane | 10.90 | 3.2 | ng | 161912 | 4 | 11.50 | 1023450 | 20.0 |
| Phenanthrene, 2-m... | 12.01 | 6.5 | ng | 330670 | 4 | 11.50 | 1023450 | 20.0 |
| 4H-Cyclopenta[def... | 12.12 | 6.0 | ng | 305453 | 4 | 11.50 | 1023450 | 20.0 |
| Anthracene, 2-met... | 12.14 | 2.1 | ng | 107380 | 4 | 11.50 | 1023450 | 20.0 |
| Naphthalene, 2-ph... | 12.30 | 2.2 | ng | 111679 | 4 | 11.50 | 1023450 | 20.0 |
| 9,10-Anthracenedione | 12.33 | 3.0 | ng | 151200 | 4 | 11.50 | 1023450 | 20.0 |
| Phenanthrene, 2,5... | 12.56 | 2.2 | ng | 111095 | 4 | 11.50 | 1023450 | 20.0 |
| 11H-Benzo[b]fluorene | 13.28 | 2.8 | ng | 223139 | 5 | 14.16 | 1618760 | 20.0 |
| 5-Eicosene, (E)- | 13.97 | 7.4 | ng | 600353 | 5 | 14.16 | 1618760 | 20.0 |
| 13-Docosenamide, ... | 14.92 | 8.4 | ng | 681426 | 5 | 14.16 | 1618760 | 20.0 |
| Benzo[e]pyrene | 15.56 | 9.4 | ng | 317514 | 6 | 15.69 | 678430 | 20.0 |