LSC Area Percent Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF102919\
Data File : BF117580.D
Acq On : 29 Oct 2019 10:30
Operator : JU
Sample : K5563-07
Misc :
ALS Vial : 3 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** TP-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-BF101819.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 | 4.928 | 478 | 483 | 496 | rBV | 108929 | 162425 | 18.28% | 0.951% |
| 2 | 5.357 | 553 | 556 | 575 | rBV | 657469 | 805161 | 90.63% | 4.712% |
| 3 | 5.516 | 580 | 583 | 589 | rVB2 | 20543 | 26229 | 2.95% | 0.154% |
| 4 | 5.969 | 658 | 660 | 663 | rBV | 21974 | 23758 | 2.67% | 0.139% |
| 5 | 6.251 | 705 | 708 | 711 | rBV3 | 40426 | 41829 | 4.71% | 0.245% |
| 6 | 6.328 | 717 | 721 | 724 | rBV2 | 23106 | 27492 | 3.09% | 0.161% |
| 7 | 6.386 | 727 | 731 | 742 | rBV | 660943 | 882241 | 99.30% | 5.164% |
| 8 | 6.504 | 748 | 751 | 756 | rVV | 972104 | 888441 | 100.00% | 5.200% |
| 9 | 6.551 | 756 | 759 | 766 | rVB3 | 93122 | 124745 | 14.04% | 0.730% |
| 10 | 6.692 | 779 | 783 | 785 | rVV3 | 14549 | 20807 | 2.34% | 0.122% |
| 11 | 6.728 | 785 | 789 | 795 | rVB | 337817 | 352713 | 39.70% | 2.064% |
| 12 | 6.781 | 795 | 798 | 801 | rBV | 54262 | 57577 | 6.48% | 0.337% |
| 13 | 6.880 | 811 | 815 | 822 | rVB | 704062 | 687082 | 77.34% | 4.021% |
| 14 | 6.957 | 822 | 828 | 829 | rBV7 | 18516 | 24978 | 2.81% | 0.146% |
| 15 | 6.975 | 829 | 831 | 833 | rBV | 37695 | 32634 | 3.67% | 0.191% |
| 16 | 7.004 | 833 | 836 | 838 | rVB2 | 53335 | 56559 | 6.37% | 0.331% |
| 17 | 7.045 | 838 | 843 | 845 | rBV2 | 110151 | 100191 | 11.28% | 0.586% |
| 18 | 7.069 | 845 | 847 | 850 | rVB2 | 24282 | 22362 | 2.52% | 0.131% |
| 19 | 7.116 | 852 | 855 | 858 | rBV2 | 109033 | 96844 | 10.90% | 0.567% |
| 20 | 7.192 | 863 | 868 | 870 | rBV2 | 69652 | 91950 | 10.35% | 0.538% |
| 21 | 7.216 | 870 | 872 | 874 | rVV | 58582 | 48042 | 5.41% | 0.281% |
| 22 | 7.257 | 874 | 879 | 882 | rVV | 147369 | 168447 | 18.96% | 0.986% |
| 23 | 7.292 | 882 | 885 | 893 | rVB | 528451 | 592872 | 66.73% | 3.470% |
| 24 | 7.369 | 893 | 898 | 902 | rVB5 | 113462 | 151766 | 17.08% | 0.888% |
| 25 | 7.410 | 902 | 905 | 907 | rBV | 64018 | 68084 | 7.66% | 0.398% |
| 26 | 7.439 | 907 | 910 | 914 | rVB2 | 64823 | 74414 | 8.38% | 0.436% |
| 27 | 7.475 | 914 | 916 | 918 | rBV2 | 58803 | 59290 | 6.67% | 0.347% |
| 28 | 7.498 | 918 | 920 | 922 | rVV | 130859 | 104803 | 11.80% | 0.613% |
| 29 | 7.528 | 922 | 925 | 928 | rVB2 | 160834 | 150409 | 16.93% | 0.880% |
| 30 | 7.610 | 934 | 939 | 942 | rBV4 | 70425 | 115932 | 13.05% | 0.679% |
| 31 | 7.657 | 942 | 947 | 950 | rVV3 | 156146 | 205541 | 23.14% | 1.203% |
| 32 | 7.692 | 950 | 953 | 956 | rVB2 | 47902 | 41957 | 4.72% | 0.246% |
| 33 | 7.751 | 956 | 963 | 965 | rBV4 | 136075 | 188292 | 21.19% | 1.102% |
| 34 | 7.775 | 965 | 967 | 971 | rVB2 | 108873 | 102796 | 11.57% | 0.602% |

LSC Area Percent Report

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Acq On : 29 Oct 2019 10:30
Operator : JU
Sample : K5563-07
Misc :
ALS Vial : 3 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** TP-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-BF101819.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 35 | 7.816 | 971 | 974 | 978 | rBV2 | 82076 | 118798 | 13.37% | 0.695% |
| 36 | 7.875 | 982 | 984 | 988 | rVB | 95336 | 92529 | 10.41% | 0.542% |
| 37 | 7.910 | 988 | 990 | 992 | rBV | 25618 | 20472 | 2.30% | 0.120% |
| 38 | 7.957 | 992 | 998 | 1001 | rBV5 | 69203 | 118432 | 13.33% | 0.693% |
| 39 | 8.010 | 1001 | 1007 | 1009 | rVV | 446855 | 584785 | 65.82% | 3.423% |
| 40 | 8.057 | 1013 | 1015 | 1020 | rVV4 | 108775 | 159745 | 17.98% | 0.935% |
| 41 | 8.098 | 1020 | 1022 | 1025 | rVB | 68449 | 57286 | 6.45% | 0.335% |
| 42 | 8.133 | 1025 | 1028 | 1030 | rVB2 | 62280 | 58253 | 6.56% | 0.341% |
| 43 | 8.163 | 1030 | 1033 | 1035 | rBV2 | 42782 | 37078 | 4.17% | 0.217% |
| 44 | 8.186 | 1035 | 1037 | 1040 | rVB | 45734 | 33933 | 3.82% | 0.199% |
| 45 | 8.298 | 1052 | 1056 | 1060 | rVV5 | 47145 | 68264 | 7.68% | 0.400% |
| 46 | 8.386 | 1068 | 1071 | 1074 | rVB4 | 31924 | 35262 | 3.97% | 0.206% |
| 47 | 9.080 | 1184 | 1189 | 1200 | rBV | 938026 | 835666 | 94.06% | 4.891% |
| 48 | 9.480 | 1253 | 1257 | 1265 | rVB | 138966 | 136374 | 15.35% | 0.798% |
| 49 | 9.757 | 1300 | 1304 | 1309 | rBV | 493798 | 450286 | 50.68% | 2.635% |
| 50 | 10.192 | 1375 | 1378 | 1383 | rVB2 | 18312 | 20832 | 2.34% | 0.122% |
| 51 | 10.310 | 1394 | 1398 | 1403 | rVB2 | 17631 | 21660 | 2.44% | 0.127% |
| 52 | 10.427 | 1414 | 1418 | 1423 | rBV | 134763 | 138415 | 15.58% | 0.810% |
| 53 | 10.557 | 1436 | 1440 | 1449 | rVV | 464431 | 477835 | 53.78% | 2.797% |
| 54 | 10.627 | 1449 | 1452 | 1456 | rVV | 124125 | 136392 | 15.35% | 0.798% |
| 55 | 10.674 | 1458 | 1460 | 1465 | rVB | 26519 | 24697 | 2.78% | 0.145% |
| 56 | 11.245 | 1554 | 1557 | 1560 | rBV | 420856 | 407979 | 45.92% | 2.388% |
| 57 | 11.268 | 1560 | 1561 | 1566 | rVV | 152154 | 124267 | 13.99% | 0.727% |
| 58 | 11.327 | 1568 | 1571 | 1574 | rBV | 34541 | 30552 | 3.44% | 0.179% |
| 59 | 11.492 | 1594 | 1599 | 1602 | rBV | 16020 | 20834 | 2.35% | 0.122% |
| 60 | 11.774 | 1644 | 1647 | 1654 | rVB3 | 119066 | 139052 | 15.65% | 0.814% |
| 61 | 11.863 | 1658 | 1662 | 1665 | rBV | 36645 | 37138 | 4.18% | 0.217% |
| 62 | 12.068 | 1694 | 1697 | 1707 | rVB | 111473 | 155411 | 17.49% | 0.910% |
| 63 | 12.298 | 1733 | 1736 | 1738 | rVV | 24366 | 26997 | 3.04% | 0.158% |
| 64 | 12.321 | 1738 | 1740 | 1751 | rVV2 | 121845 | 188701 | 21.24% | 1.104% |
| 65 | 12.398 | 1751 | 1753 | 1760 | rVB | 54038 | 62026 | 6.98% | 0.363% |
| 66 | 12.462 | 1760 | 1764 | 1767 | rBV | 294877 | 256179 | 28.83% | 1.499% |
| 67 | 12.492 | 1767 | 1769 | 1773 | rVV3 | 32367 | 34626 | 3.90% | 0.203% |
| 68 | 12.557 | 1777 | 1780 | 1782 | rVV | 34192 | 34544 | 3.89% | 0.202% |
| 69 | 12.610 | 1786 | 1789 | 1793 | rVV4 | 36941 | 53822 | 6.06% | 0.315% |
| 70 | 12.692 | 1797 | 1803 | 1809 | rVV | 245717 | 268302 | 30.20% | 1.570% |
| 71 | 12.827 | 1822 | 1826 | 1829 | rBV | 599173 | 512514 | 57.69% | 3.000% |

LSC Area Percent Report

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Sample : K5563-07
Misc :
ALS Vial : 3 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** TP-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-BF101819.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 72 | 12.915 | 1829 | 1841 | 1848 | rVV3 | 130620 | 432955 | 48.73% | 2.534% |
| 73 | 13.027 | 1857 | 1860 | 1862 | rVV2 | 34494 | 36163 | 4.07% | 0.212% |
| 74 | 13.051 | 1862 | 1864 | 1868 | rVB | 24744 | 24218 | 2.73% | 0.142% |
| 75 | 13.398 | 1918 | 1923 | 1926 | rBV2 | 34082 | 42337 | 4.77% | 0.248% |
| 76 | 13.545 | 1944 | 1948 | 1954 | rBV | 22715 | 32556 | 3.66% | 0.191% |
| 77 | 13.645 | 1961 | 1965 | 1971 | rBV5 | 31220 | 60478 | 6.81% | 0.354% |
| 78 | 13.727 | 1971 | 1979 | 1982 | rBV3 | 96774 | 155904 | 17.55% | 0.912% |
| 79 | 13.857 | 1993 | 2001 | 2003 | rBV | 160731 | 308002 | 34.67% | 1.803% |
| 80 | 13.892 | 2003 | 2007 | 2010 | rVV2 | 320793 | 432256 | 48.65% | 2.530% |
| 81 | 13.915 | 2010 | 2011 | 2017 | rVB | 100736 | 93518 | 10.53% | 0.547% |
| 82 | 13.998 | 2023 | 2025 | 2028 | rVB2 | 22527 | 19552 | 2.20% | 0.114% |
| 83 | 14.039 | 2028 | 2032 | 2039 | rBV | 107702 | 124097 | 13.97% | 0.726% |
| 84 | 14.286 | 2069 | 2074 | 2076 | rBV2 | 31333 | 50023 | 5.63% | 0.293% |
| 85 | 14.345 | 2080 | 2084 | 2089 | rVB | 212068 | 197925 | 22.28% | 1.158% |
| 86 | 14.509 | 2107 | 2112 | 2120 | rVB | 106996 | 195192 | 21.97% | 1.142% |
| 87 | 14.639 | 2127 | 2134 | 2138 | rBV | 296170 | 344341 | 38.76% | 2.015% |
| 88 | 14.921 | 2178 | 2182 | 2184 | rBV2 | 117224 | 144420 | 16.26% | 0.845% |
| 89 | 14.956 | 2184 | 2188 | 2197 | rVB2 | 325628 | 411430 | 46.31% | 2.408% |
| 90 | 15.027 | 2197 | 2200 | 2206 | rVB | 33083 | 43878 | 4.94% | 0.257% |
| 91 | 15.115 | 2210 | 2215 | 2220 | rBV4 | 35599 | 65394 | 7.36% | 0.383% |
| 92 | 15.209 | 2227 | 2231 | 2234 | rVB | 68789 | 77188 | 8.69% | 0.452% |
| 93 | 15.268 | 2238 | 2241 | 2244 | rBV | 89615 | 109210 | 12.29% | 0.639% |
| 94 | 15.315 | 2244 | 2249 | 2255 | rVB2 | 250282 | 520970 | 58.64% | 3.049% |
| 95 | 15.715 | 2311 | 2317 | 2323 | rBV | 142854 | 220330 | 24.80% | 1.290% |
| 96 | 15.951 | 2353 | 2357 | 2362 | rBV7 | 15160 | 26045 | 2.93% | 0.152% |
| 97 | 16.186 | 2391 | 2397 | 2402 | rVB2 | 66103 | 107175 | 12.06% | 0.627% |
| 98 | 16.745 | 2485 | 2492 | 2500 | rVB3 | 57730 | 139884 | 15.74% | 0.819% |
| 99 | 16.909 | 2514 | 2520 | 2524 | rBV8 | 13344 | 24333 | 2.74% | 0.142% |
| 100 | 17.174 | 2560 | 2565 | 2571 | rVB2 | 33587 | 67458 | 7.59% | 0.395% |

Sum of corrected areas: 17085833

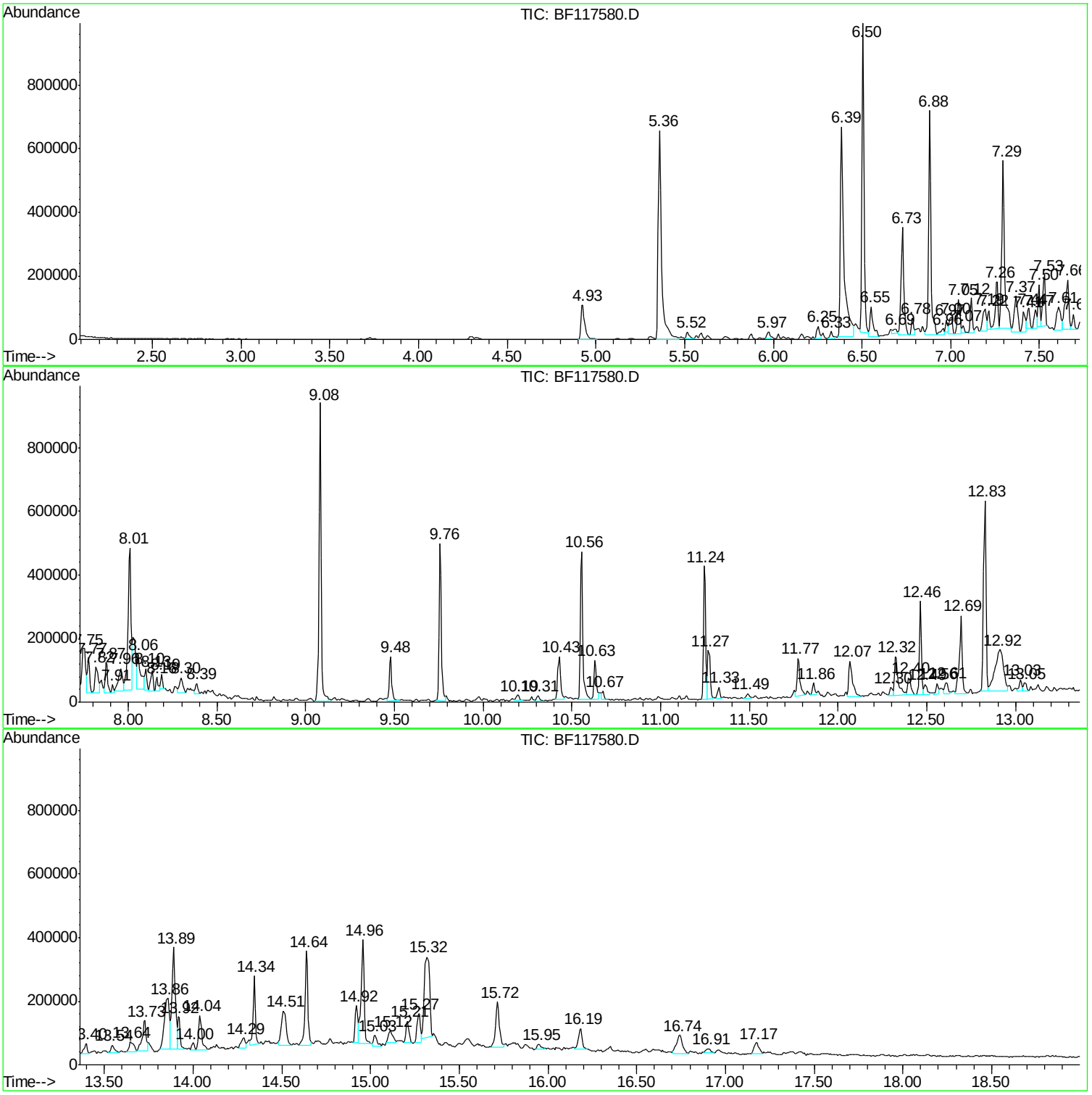
LSC Report - Integrated Chromatogram

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF102919\
Data File : BF117580.D
Acq On : 29 Oct 2019 10:30
Operator : JU
Sample : K5563-07
Misc :
ALS Vial : 3 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** TP-1

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF101819.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:\SVOASRV\HPCHEM1\BNA F\DATA\BF102919\
Data File : BF117580.D
Acq On : 29 Oct 2019 10:30
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Misc :
ALS Vial : 3 Sample Multiplier: 1

**Instrument :** BNA_F
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Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF101819.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

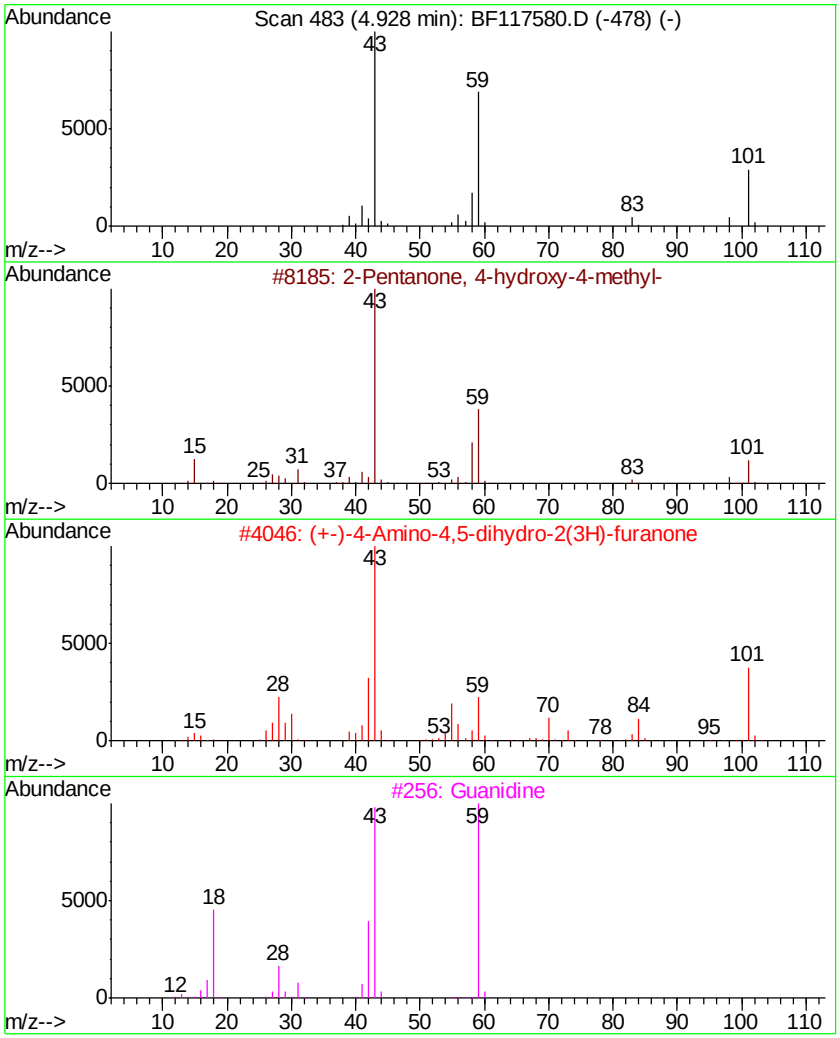
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

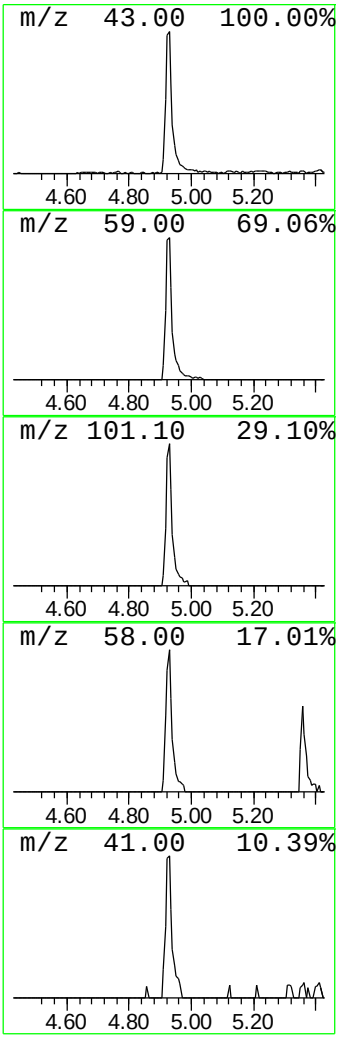
**********

Peak Number 1 2-Pentanone, 4-hydroxy-4-me... Concentration Rank 6

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 4.93 | 9.21 ng | 162425 | 1,4-Dichlorobenzene-d4 | 6.73 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 2-Pentanone, 4-hydroxy-4-methyl- | 116 | C6H12O2 | 000123-42-2 | 56 |
| 2 | (+-)-4-Amino-4,5-dihydro-2(3H)-f... | 101 | C4H7NO2 | 016504-58-8 | 47 |
| 3 | Guanidine | 59 | CH5N3 | 000113-00-8 | 43 |
| 4 | Butyl aldoxime, 3-methyl-, syn- | 101 | C5H11NO | 005780-40-5 | 35 |
| 5 | Acetic acid, cyano-, 1,1-dimethy... | 141 | C7H11NO2 | 001116-98-9 | 17 |



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Sample : K5563-07
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**Instrument :** BNA_F
**ClientSampleId :** TP-1

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF101819.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

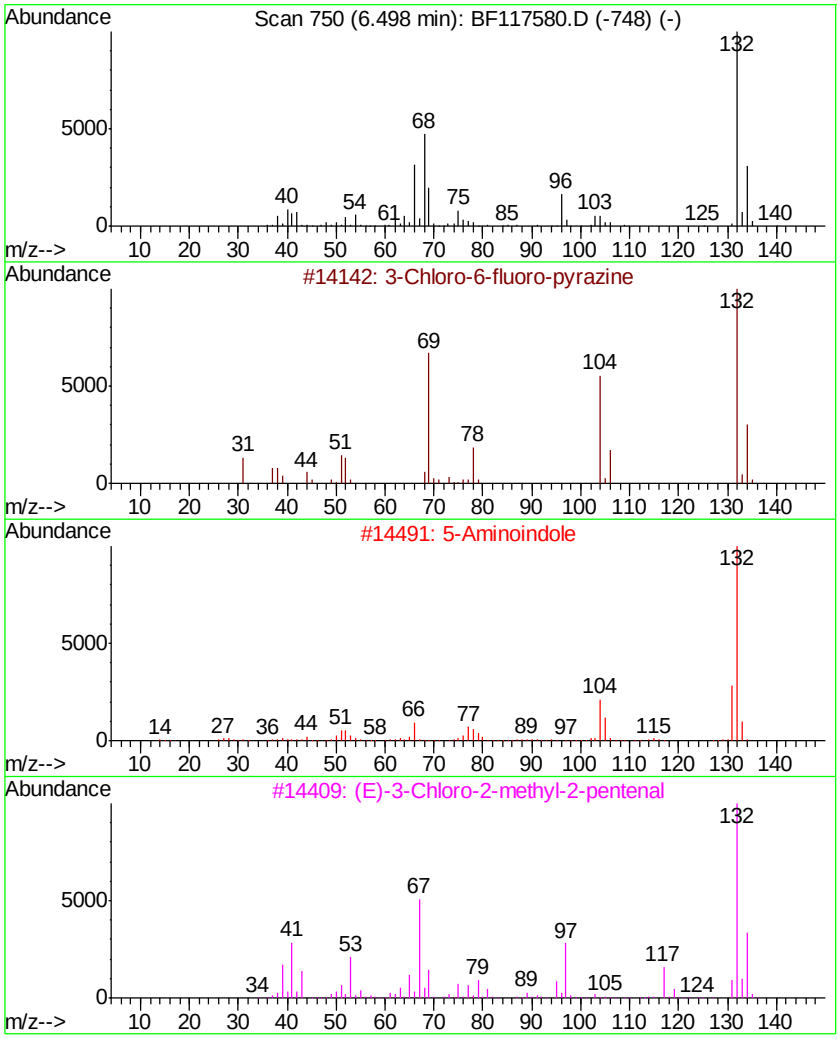
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

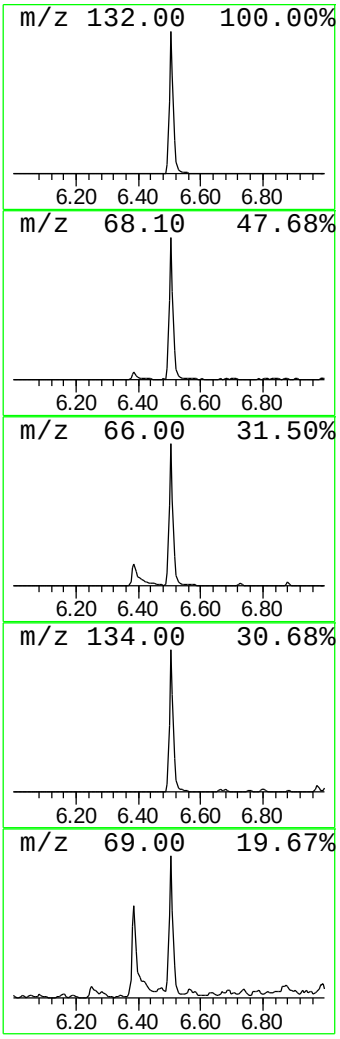
**********

Peak Number 2 unknown6.50 Concentration Rank 1

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 6.50 | 50.38 ng | 888441 | 1,4-Dichlorobenzene-d4 | 6.73 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 3-Chloro-6-fluoro-pyrazine | 132 | C4H2ClFN2 | 1000146-10-7 | 27 |
| 2 | 5-Aminoindole | 132 | C8H8N2 | 005192-03-0 | 10 |
| 3 | (E)-3-Chloro-2-methyl-2-pentenal | 132 | C6H9ClO | 031357-76-3 | 9 |
| 4 | Bicyclo[4.2.0]octa-1,3,5-triene,... | 132 | C10H12 | 028749-81-7 | 9 |
| 5 | 5-Fluoro-2-chloropyrimidine | 132 | C4H2ClFN2 | 062802-42-0 | 9 |



Library Search Compound Report

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**Instrument :** BNA_F
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Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF101819.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

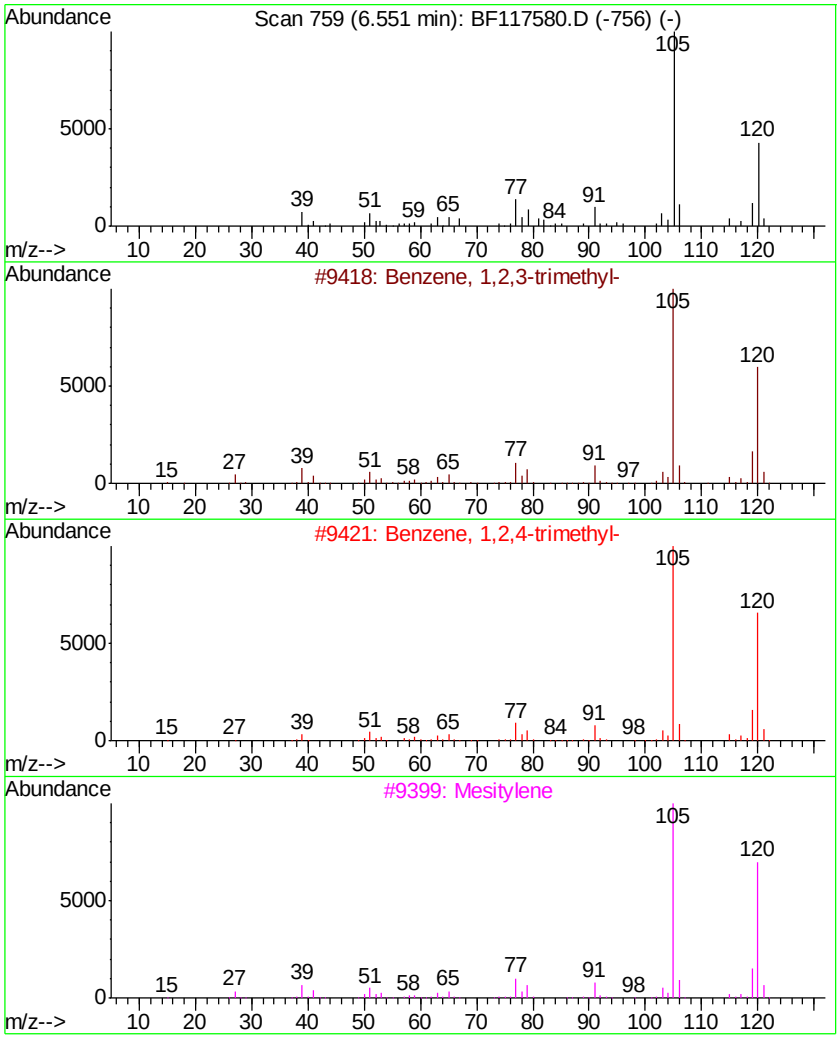
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

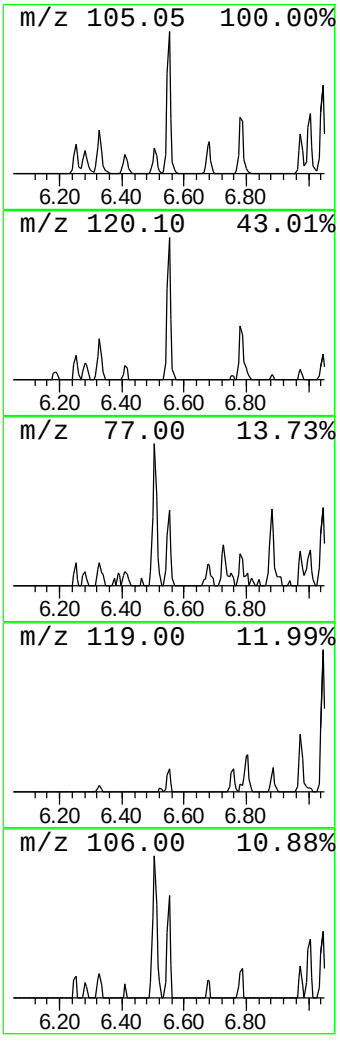
**********

Peak Number 3 Benzene, 1,2,3-trimethyl- Concentration Rank 12

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 6.55 | 7.07 ng | 124745 | 1,4-Dichlorobenzene-d4 | 6.73 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Benzene, 1,2,3-trimethyl- | 120 | C9H12 | 000526-73-8 | 97 |
| 2 | Benzene, 1,2,4-trimethyl- | 120 | C9H12 | 000095-63-6 | 91 |
| 3 | Mesitylene | 120 | C9H12 | 000108-67-8 | 91 |
| 4 | Benzene, 1-ethyl-3-methyl- | 120 | C9H12 | 000620-14-4 | 91 |
| 5 | Benzene, 1-ethyl-4-methyl- | 120 | C9H12 | 000622-96-8 | 91 |



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Misc :
ALS Vial : 3 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** TP-1

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF101819.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

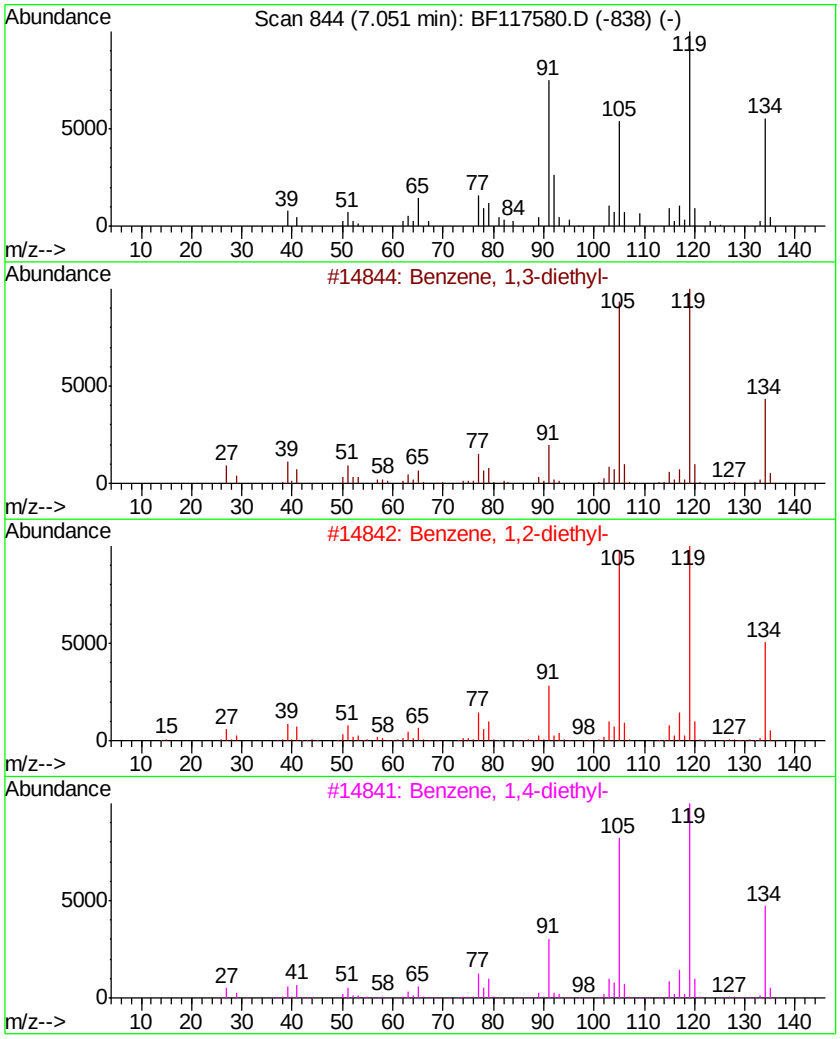
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

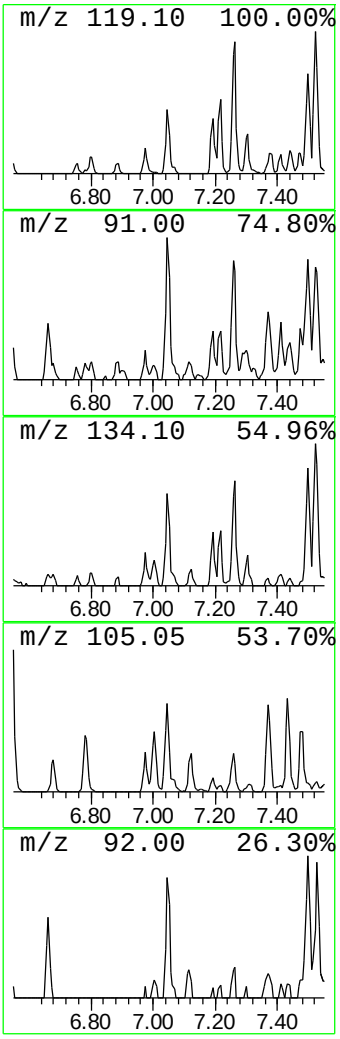
**********

Peak Number 5 Benzene, 1,3-diethyl- Concentration Rank 19

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 7.05 | 5.68 ng | 100191 | 1,4-Dichlorobenzene-d4 | 6.73 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Benzene, 1,3-diethyl- | 134 | C10H14 | 000141-93-5 | 96 |
| 2 | Benzene, 1,2-diethyl- | 134 | C10H14 | 000135-01-3 | 95 |
| 3 | Benzene, 1,4-diethyl- | 134 | C10H14 | 000105-05-5 | 95 |
| 4 | Benzene, 4-ethyl-1,2-dimethyl- | 134 | C10H14 | 000934-80-5 | 93 |
| 5 | Benzene, 1-ethyl-2,3-dimethyl- | 134 | C10H14 | 000933-98-2 | 91 |



Library Search Compound Report

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Data File : BF117580.D
Acq On : 29 Oct 2019 10:30
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Sample : K5563-07
Misc :
ALS Vial : 3 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** TP-1

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF101819.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

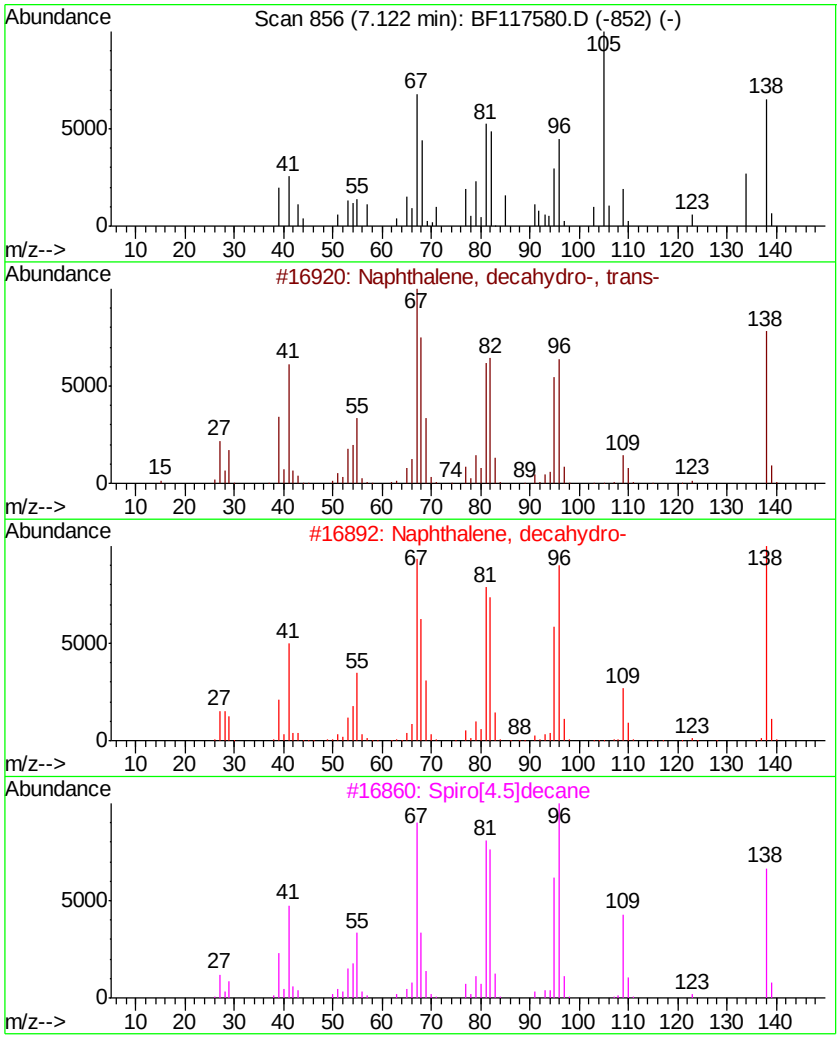
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

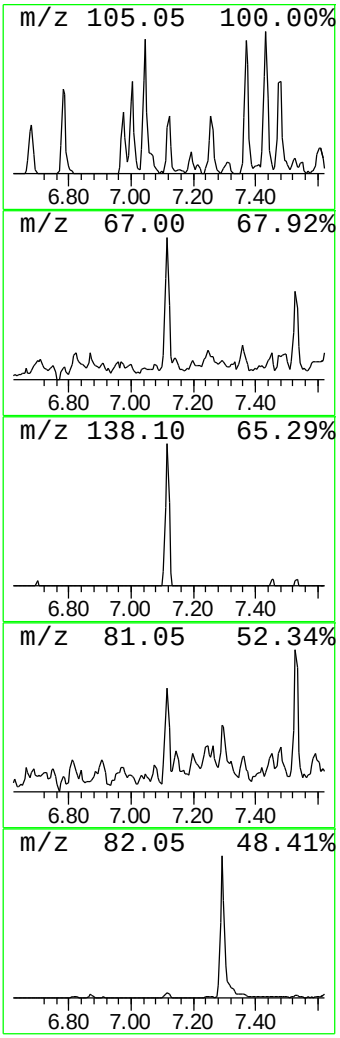
**********

Peak Number 6 Naphthalene, decahydro-, tr... Concentration Rank 20

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 7.12 | 5.49 ng | 96844 | 1,4-Dichlorobenzene-d4 | 6.73 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Naphthalene, decahydro-, trans- | 138 | C10H18 | 000493-02-7 | 96 |
| 2 | Naphthalene, decahydro- | 138 | C10H18 | 000091-17-8 | 94 |
| 3 | Spiro[4.5]decane | 138 | C10H18 | 000176-63-6 | 93 |
| 4 | Naphthalene, decahydro-, cis- | 138 | C10H18 | 000493-01-6 | 81 |
| 5 | 5H-Inden-5-one, octahydro-, cis- | 138 | C9H14O | 004668-91-1 | 80 |



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Data File : BF117580.D
Acq On : 29 Oct 2019 10:30
Operator : JU
Sample : K5563-07
Misc :
ALS Vial : 3 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** TP-1

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF101819.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

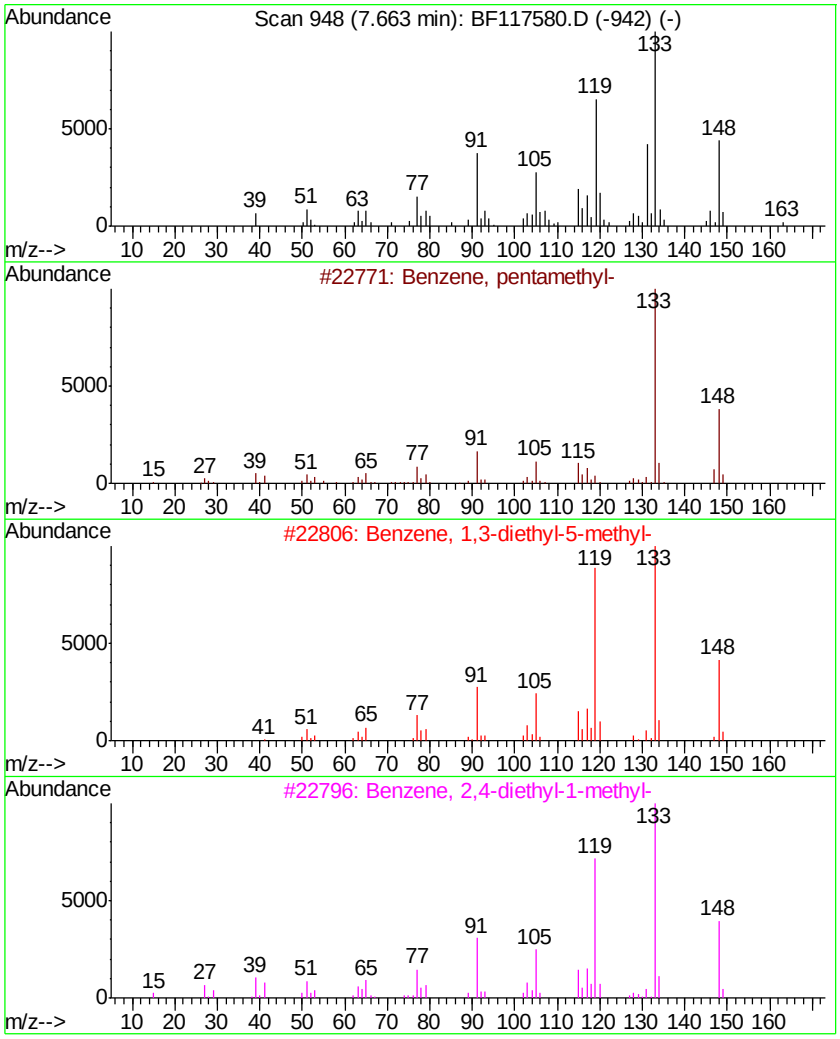
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

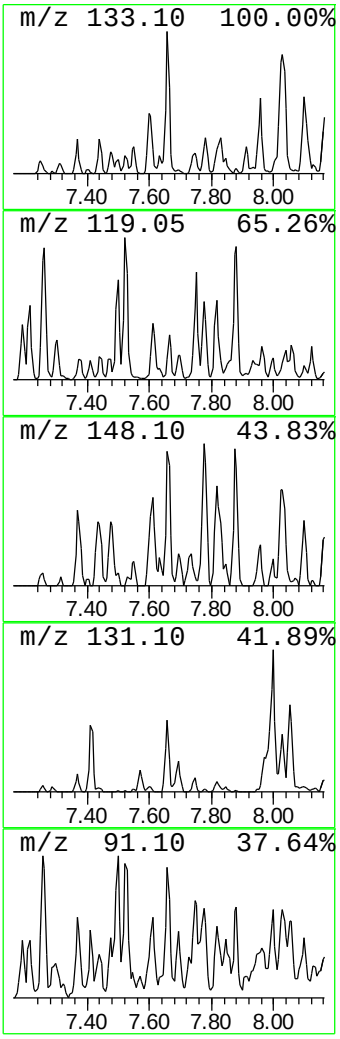
**********

Peak Number 7 Benzene, pentamethyl- Concentration Rank 13

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 7.66 | 7.03 ng | 205541 | Naphthalene-d8 | 8.01 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Benzene, pentamethyl- | 148 | C11H16 | 000700-12-9 | 70 |
| 2 | Benzene, 1,3-diethyl-5-methyl- | 148 | C11H16 | 002050-24-0 | 64 |
| 3 | Benzene, 2,4-diethyl-1-methyl- | 148 | C11H16 | 001758-85-6 | 64 |
| 4 | Benzene, 1,3-dimethyl-5-(1-methy... | 148 | C11H16 | 004706-90-5 | 58 |
| 5 | Benzene, 1-ethyl-4-(1-methylethyl)- | 148 | C11H16 | 004218-48-8 | 58 |



# Library Search Compound Report

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Data File : BF117580.D
Acq On : 29 Oct 2019 10:30
Operator : JU
Sample : K5563-07
Misc :
ALS Vial : 3 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** TP-1

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF101819.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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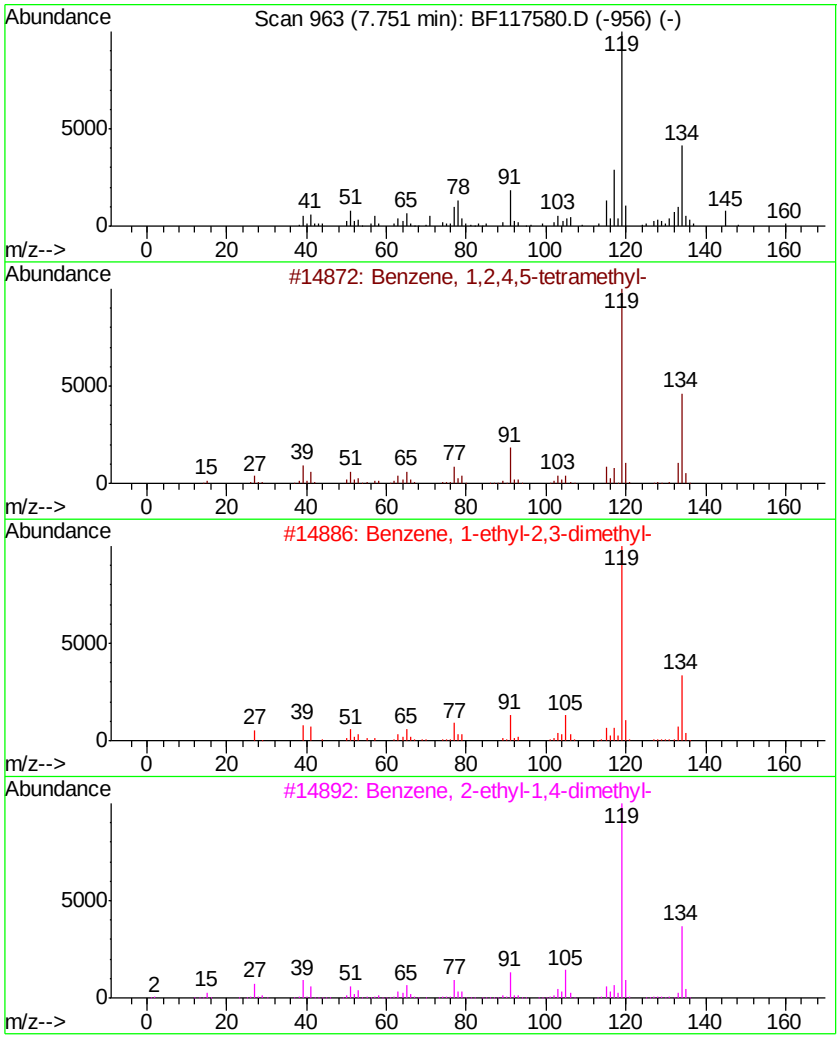
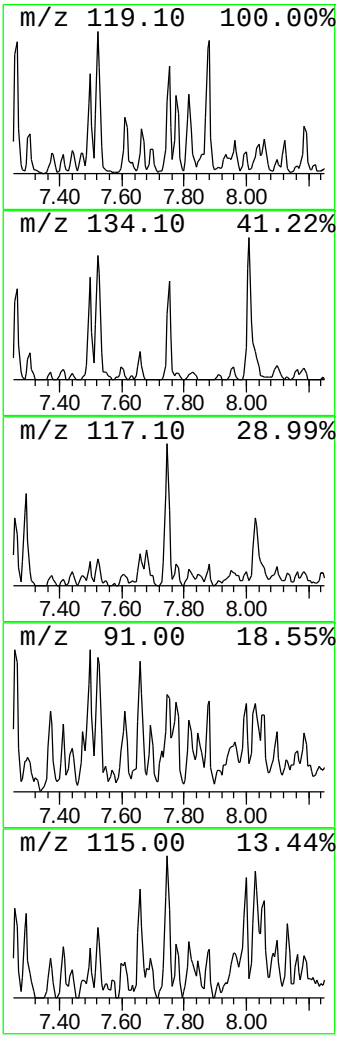
Peak Number 8 Benzene, 1,2,4,5-tetramethyl- Concentration Rank 16

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 7.75 | 6.44 ng | 188292 | Naphthalene-d8 | 8.01 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Benzene, 1,2,4,5-tetramethyl- | 134 | C10H14 | 000095-93-2 | 95 |
| 2 | Benzene, 1-ethyl-2,3-dimethyl- | 134 | C10H14 | 000933-98-2 | 81 |
| 3 | Benzene, 2-ethyl-1,4-dimethyl- | 134 | C10H14 | 001758-88-9 | 81 |
| 4 | o-Cymene | 134 | C10H14 | 000527-84-4 | 81 |
| 5 | Benzene, 1,2,3,5-tetramethyl- | 134 | C10H14 | 000527-53-7 | 81 |



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Operator : JU
Sample : K5563-07
Misc :
ALS Vial : 3 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** TP-1

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF101819.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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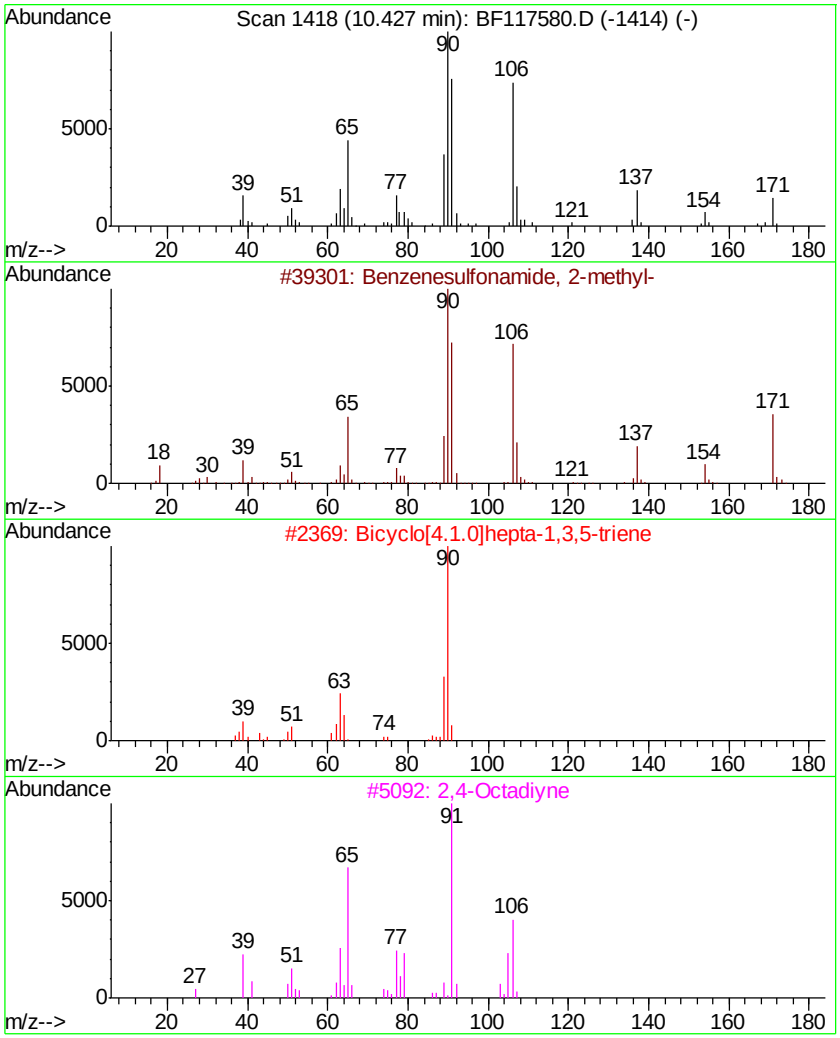
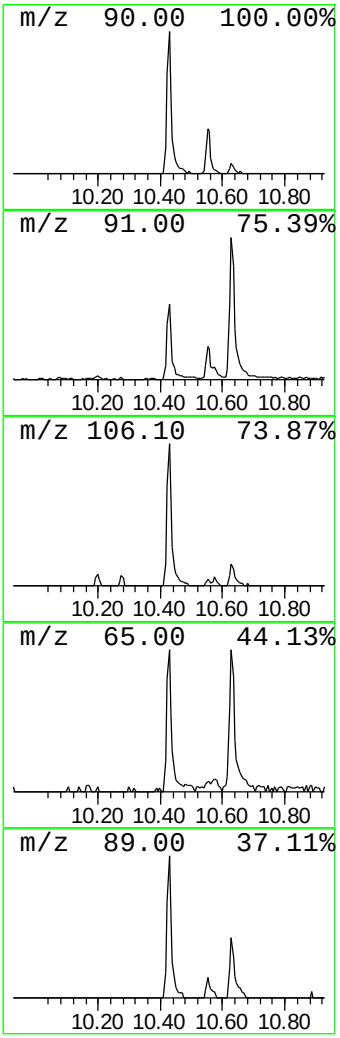
Peak Number 9 Benzenesulfonamide, 2-methyl- Concentration Rank 17

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 10.43 | 6.15 ng | 138415 | Acenaphthene-d10 | 9.76 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Benzenesulfonamide, 2-methyl- | 171 | C7H9NO2S | 000088-19-7 | 97 |
| 2 | Bicyclo[4.1.0]hepta-1,3,5-triene | 90 | C7H6 | 004646-69-9 | 43 |
| 3 | 2,4-Octadiyne | 106 | C8H10 | 002809-71-4 | 38 |
| 4 | Benzene, 1-methyl-4-nitro- | 137 | C7H7NO2 | 000099-99-0 | 35 |
| 5 | 4-(2-Aminoethyl)benzenesulfonamide | 200 | C8H12N2O2S | 035303-76-5 | 28 |



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Data File : BF117580.D
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Operator : JU
Sample : K5563-07
Misc :
ALS Vial : 3 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** TP-1

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF101819.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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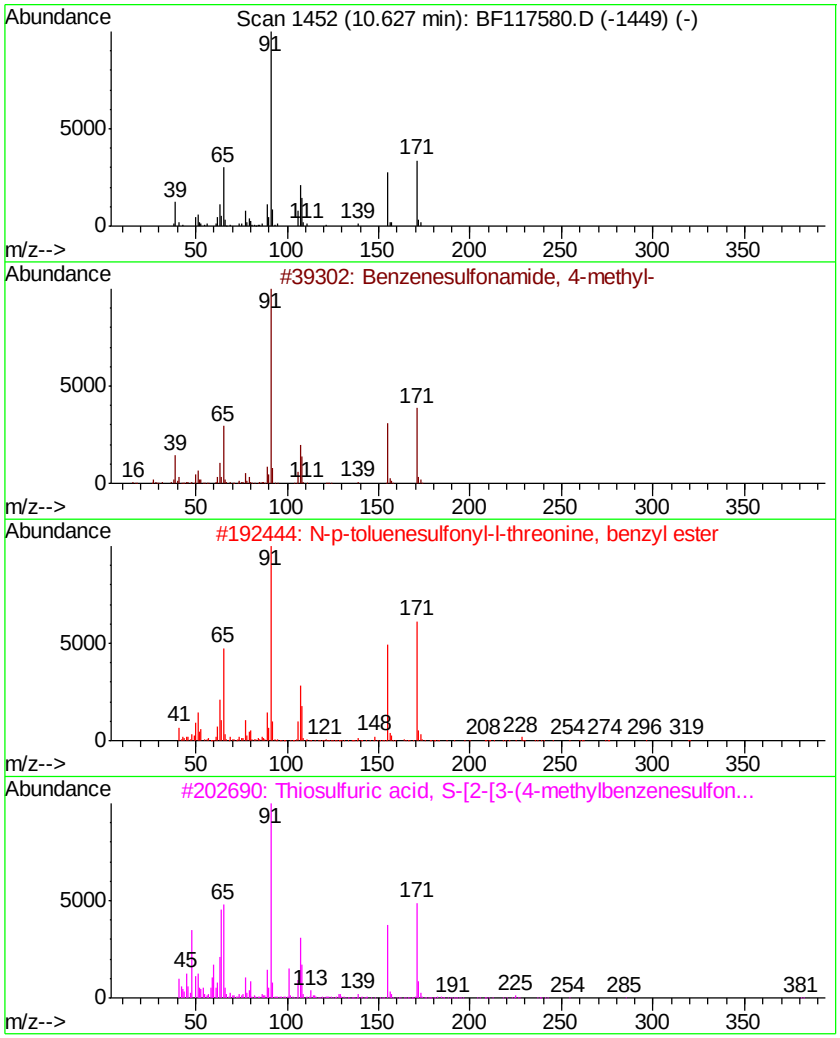
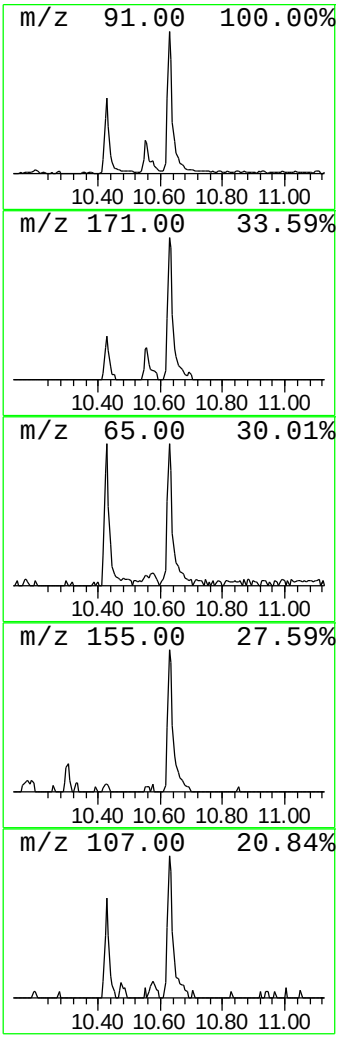
Peak Number 10 Benzenesulfonamide, 4-methyl- Concentration Rank 15

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 10.63 | 6.69 ng | 136392 | Phenanthrene-d10 | 11.24 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Benzenesulfonamide, 4-methyl- | 171 | C7H9NO2S | 000070-55-3 | 97 |
| 2 | N-p-toluenesulfonyl-l-threonine,... | 363 | C18H21NO5S | 1000130-34-4 | 83 |
| 3 | Thiosulfuric acid, S-[2-[3-(4-me... | 381 | C12H19N3O5S3 | 1000255-60-3 | 78 |
| 4 | O-p-toluenesulfonyll-N-acetylser... | 315 | C13H17NO6S | 1000126-44-8 | 53 |
| 5 | Benzenemethanesulfonamide | 171 | C7H9NO2S | 004563-33-1 | 43 |



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Acq On : 29 Oct 2019 10:30
Operator : JU
Sample : K5563-07
Misc :
ALS Vial : 3 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** TP-1

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF101819.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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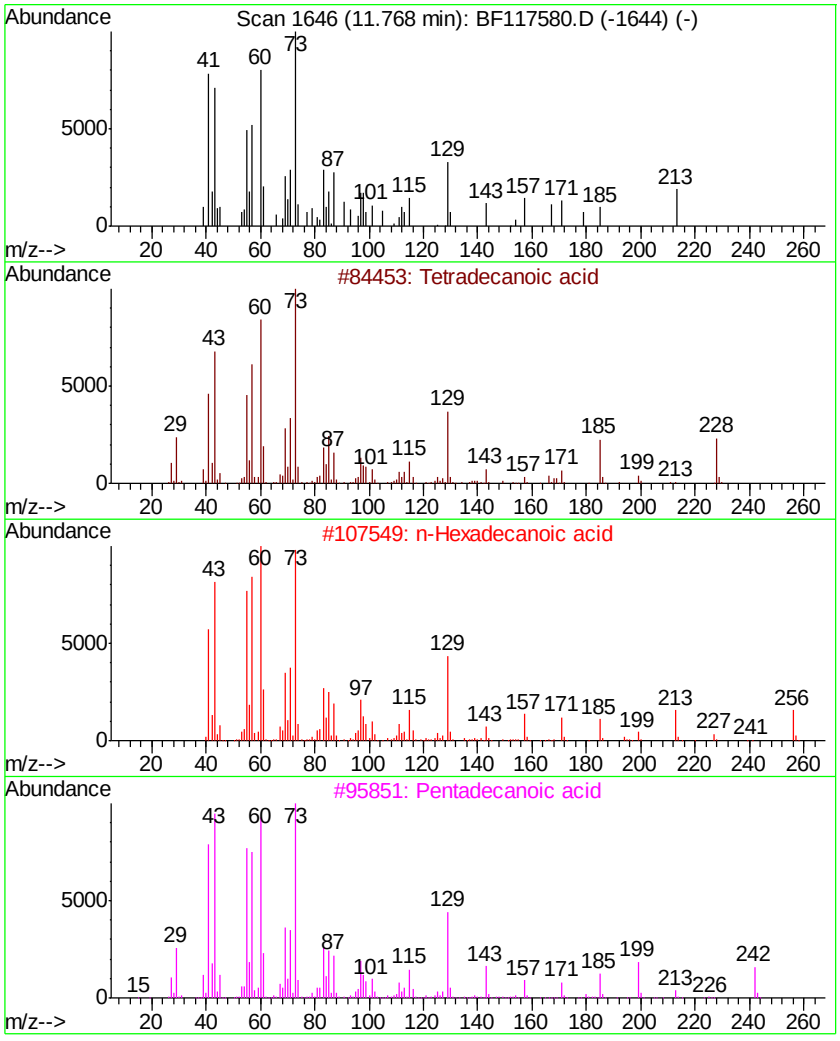
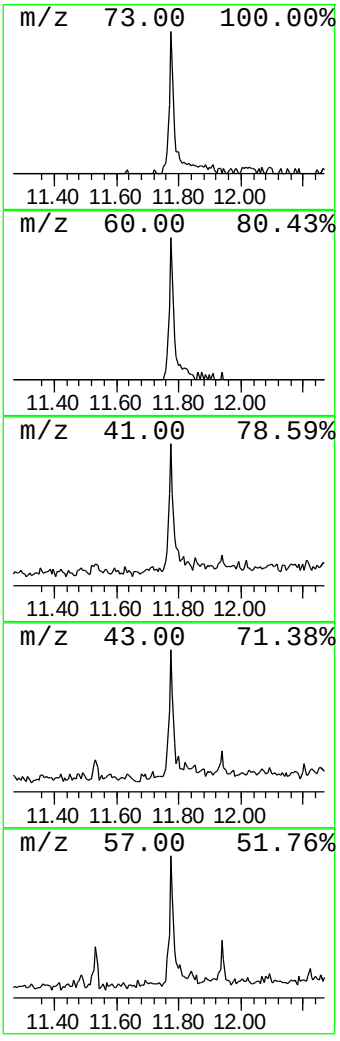
Peak Number 11 Tetradecanoic acid Concentration Rank 14

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 11.77 | 6.82 ng | 139052 | Phenanthrene-d10 | 11.24 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Tetradecanoic acid | 228 | C14H28O2 | 000544-63-8 | 80 |
| 2 | n-Hexadecanoic acid | 256 | C16H32O2 | 000057-10-3 | 76 |
| 3 | Pentadecanoic acid | 242 | C15H30O2 | 001002-84-2 | 68 |
| 4 | Decanoic acid, silver(1+) salt | 278 | C10H19AgO2 | 013126-67-5 | 53 |
| 5 | Nonanoic acid | 158 | C9H18O2 | 000112-05-0 | 38 |



# Library Search Compound Report

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Data File : BF117580.D
Acq On : 29 Oct 2019 10:30
Operator : JU
Sample : K5563-07
Misc :
ALS Vial : 3 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** TP-1

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF101819.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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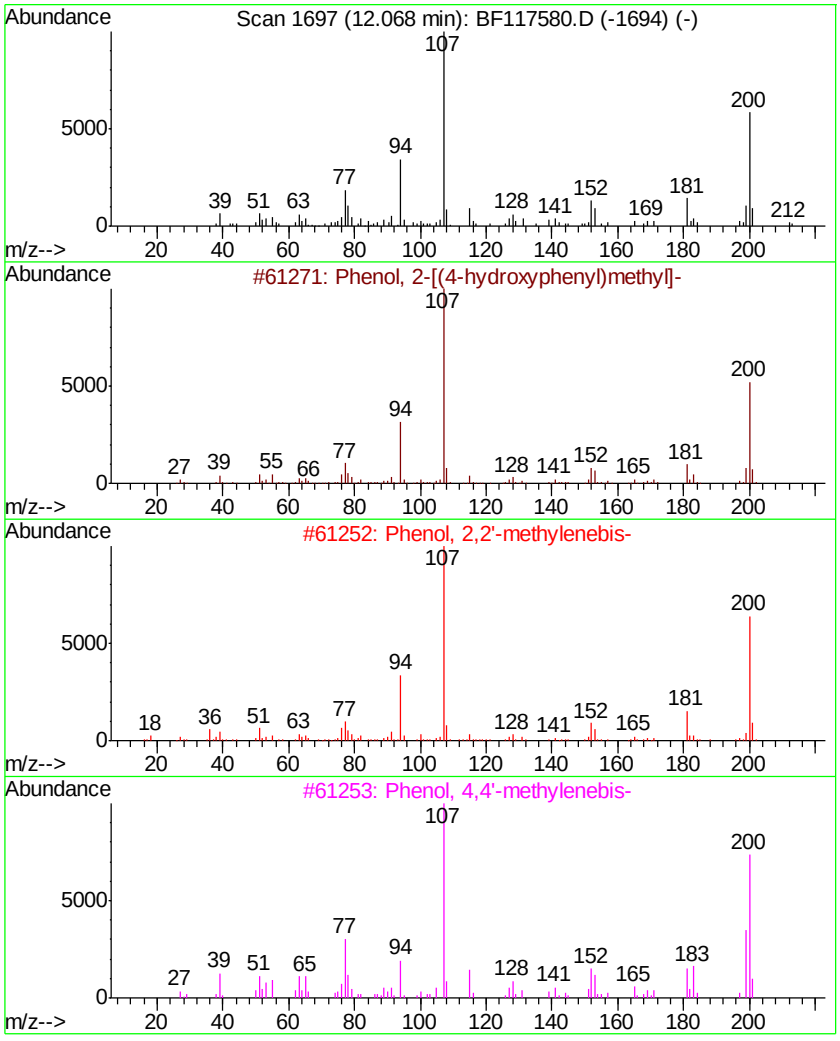
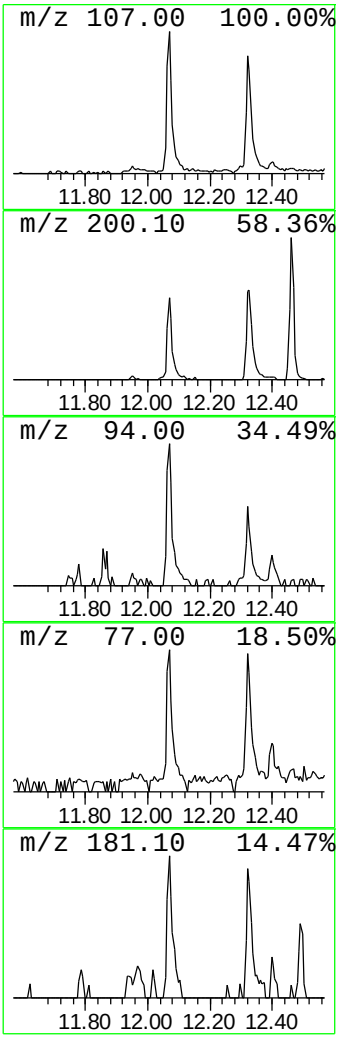
Peak Number 12 Phenol, 2-[(4-hydroxyphenyl... Concentration Rank 10

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 12.07 | 7.62 ng | 155411 | Phenanthrene-d10 | 11.24 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Phenol, 2-[(4-hydroxyphenyl)meth... | 200 | C13H12O2 | 002467-03-0 | 97 |
| 2 | Phenol, 2,2'-methylenebis- | 200 | C13H12O2 | 002467-02-9 | 94 |
| 3 | Phenol, 4,4'-methylenebis- | 200 | C13H12O2 | 000620-92-8 | 72 |
| 4 | Ethyl 2-hydroxybenzyl sulfone | 200 | C9H12O3S | 053380-27-1 | 47 |
| 5 | 4-(2-Methoxyethyl)phenol | 152 | C9H12O2 | 056718-71-9 | 38 |



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Data File : BF117580.D
Acq On : 29 Oct 2019 10:30
Operator : JU
Sample : K5563-07
Misc :
ALS Vial : 3 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** TP-1

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF101819.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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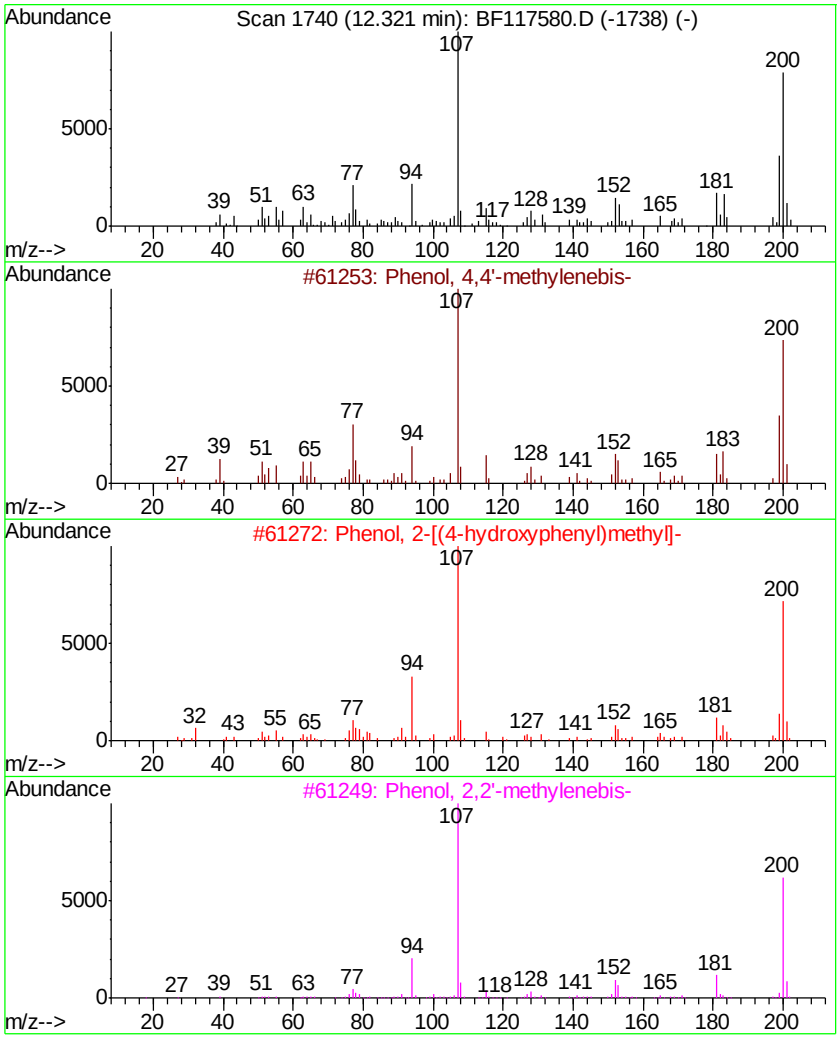
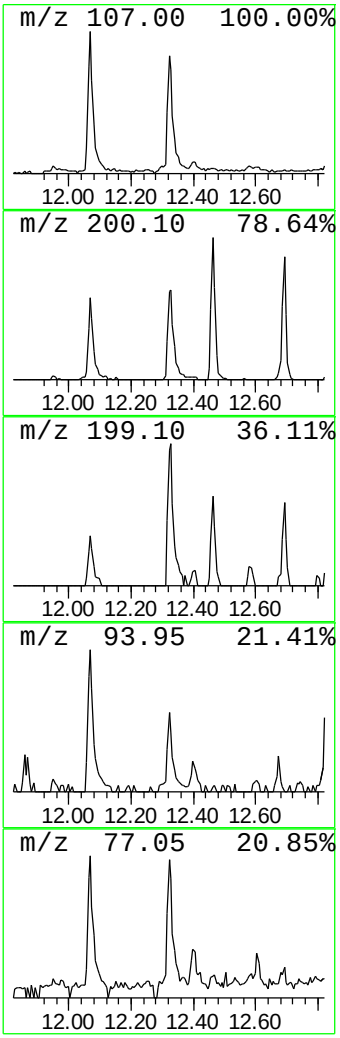
Peak Number 13 Phenol, 4,4'-methylenebis- Concentration Rank 5

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 12.32 | 9.25 ng | 188701 | Phenanthrene-d10 | 11.24 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Phenol, 4,4'-methylenebis- | 200 | C13H12O2 | 000620-92-8 | 94 |
| 2 | Phenol, 2-[(4-hydroxyphenyl)meth... | 200 | C13H12O2 | 002467-03-0 | 91 |
| 3 | Phenol, 2,2'-methylenebis- | 200 | C13H12O2 | 002467-02-9 | 87 |
| 4 | 1,3-Benzenediol, 4-(phenylmethyl)- | 200 | C13H12O2 | 002284-30-2 | 60 |
| 5 | Benzenemethanol, 3-phenoxy- | 200 | C13H12O2 | 013826-35-2 | 49 |



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Acq On : 29 Oct 2019 10:30
Operator : JU
Sample : K5563-07
Misc :
ALS Vial : 3 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** TP-1

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF101819.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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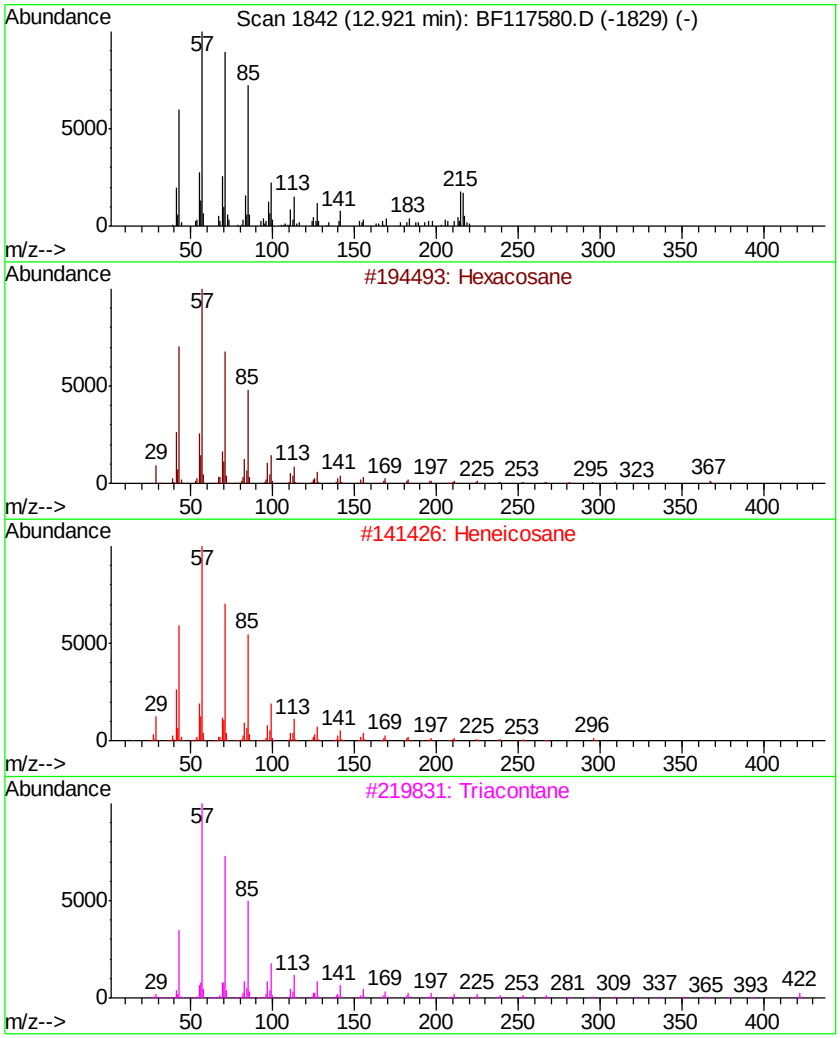
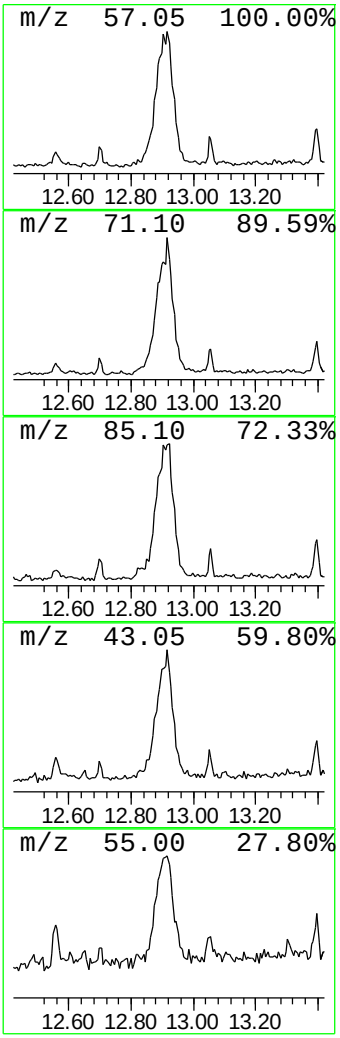
Peak Number 14 Hexacosane Concentration Rank 3

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 12.92 | 20.03 ng | 432955 | Chrysene-d12 | 13.89 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Hexacosane | 366 | C26H54 | 000630-01-3 | 87 |
| 2 | Heneicosane | 296 | C21H44 | 000629-94-7 | 83 |
| 3 | Triacontane | 422 | C30H62 | 000638-68-6 | 83 |
| 4 | Hentriacontane | 437 | C31H64 | 000630-04-6 | 81 |
| 5 | Heneicosane, 11-(1-ethylpropyl)- | 366 | C26H54 | 055282-11-6 | 80 |



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Data File : BF117580.D
Acq On : 29 Oct 2019 10:30
Operator : JU
Sample : K5563-07
Misc :
ALS Vial : 3 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** TP-1

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF101819.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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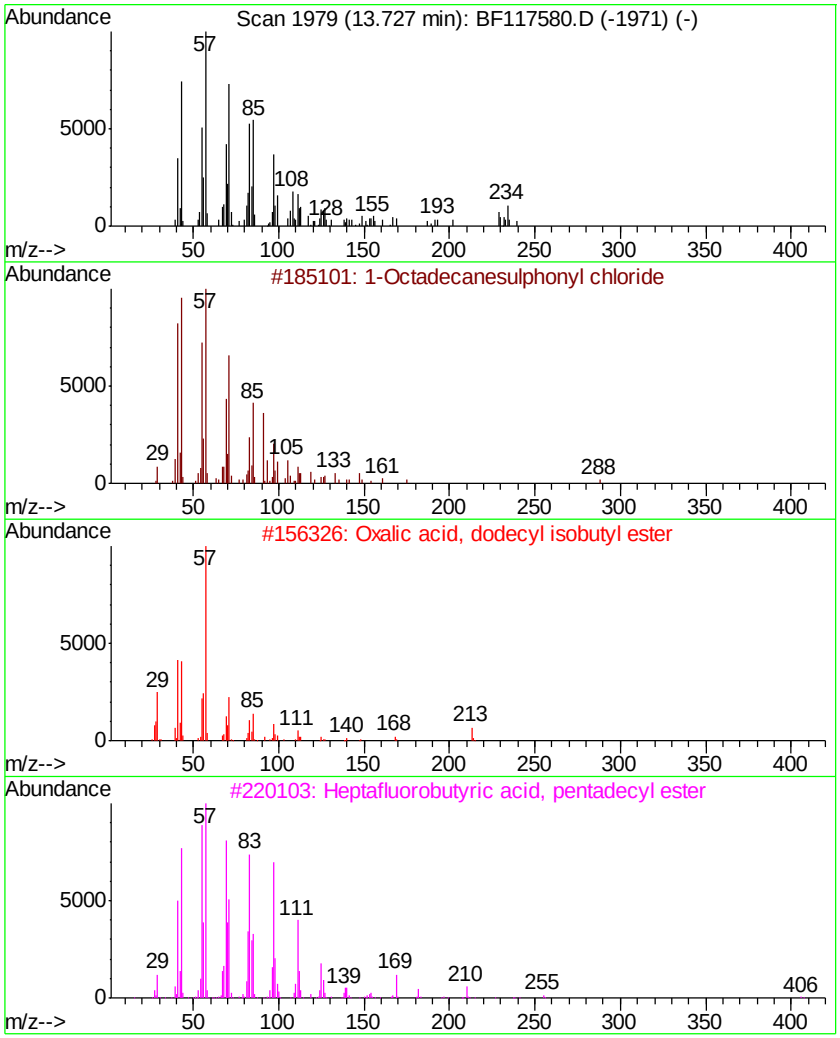
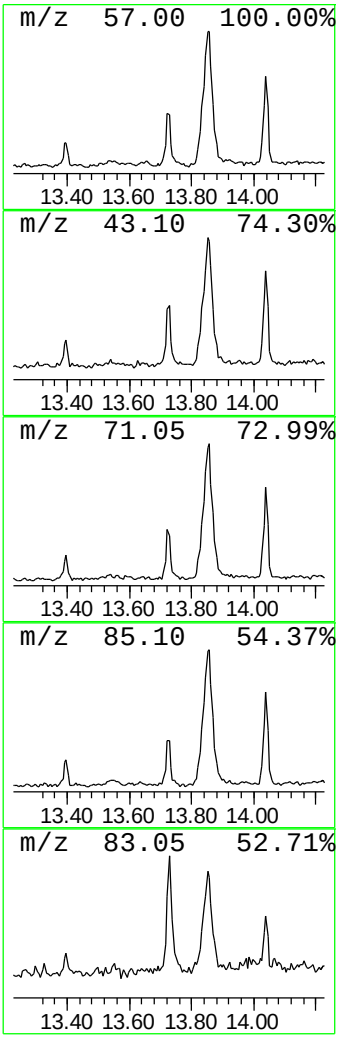
Peak Number 15 1-Octadecanesulphonyl chloride Concentration Rank 11

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 13.73 | 7.21 ng | 155904 | Chrysene-d12 | 13.89 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 1-Octadecanesulphonyl chloride | 352 | C18H37ClO2S | 1000342-70-4 | 58 |
| 2 | Oxalic acid, dodecyl isobutyl ester | 314 | C18H34O4 | 1000309-37-7 | 58 |
| 3 | Heptafluorobutyric acid, pentade... | 424 | C19H31F7O2 | 959261-23-5 | 49 |
| 4 | Trifluoroacetic acid, pentadecyl... | 324 | C17H31F3O2 | 959010-23-2 | 49 |
| 5 | 1-Decanol, 2-octyl- | 270 | C18H38O | 045235-48-1 | 46 |



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Acq On : 29 Oct 2019 10:30
Operator : JU
Sample : K5563-07
Misc :
ALS Vial : 3 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** TP-1

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF101819.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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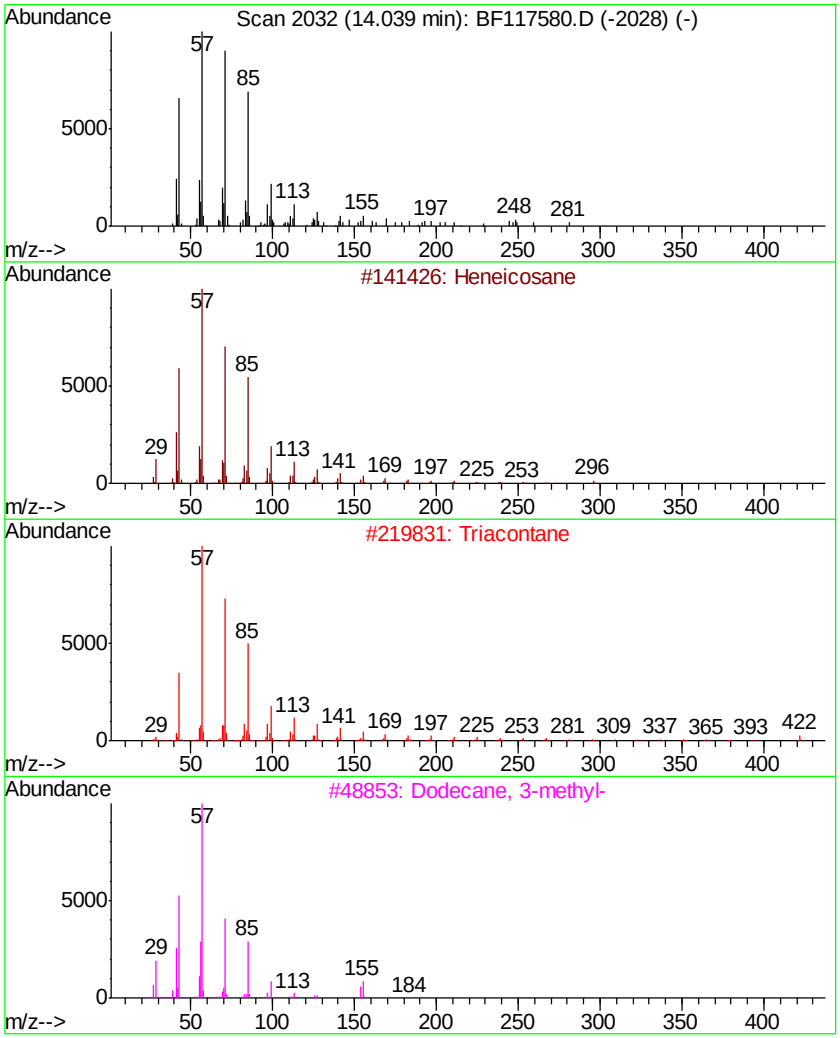
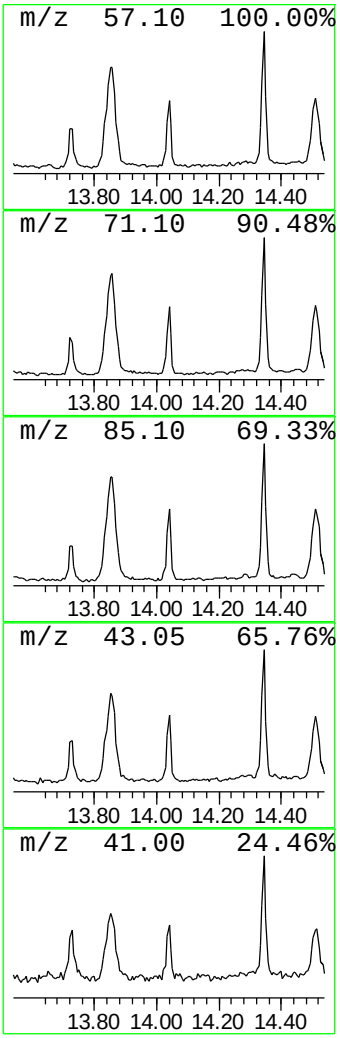
Peak Number 16 Heneicosane Concentration Rank 18

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 14.04 | 5.74 ng | 124097 | Chrysene-d12 | 13.89 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Heneicosane | 296 | C21H44 | 000629-94-7 | 91 |
| 2 | Triacontane | 422 | C30H62 | 000638-68-6 | 91 |
| 3 | Dodecane, 3-methyl- | 184 | C13H28 | 017312-57-1 | 90 |
| 4 | Heneicosane, 11-(1-ethylpropyl)- | 366 | C26H54 | 055282-11-6 | 86 |
| 5 | 5-Ethyl-5-methylnonadecane | 310 | C22H46 | 1000360-42-7 | 86 |



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Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF102919\
Data File : BF117580.D
Acq On : 29 Oct 2019 10:30
Operator : JU
Sample : K5563-07
Misc :
ALS Vial : 3 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** TP-1

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF101819.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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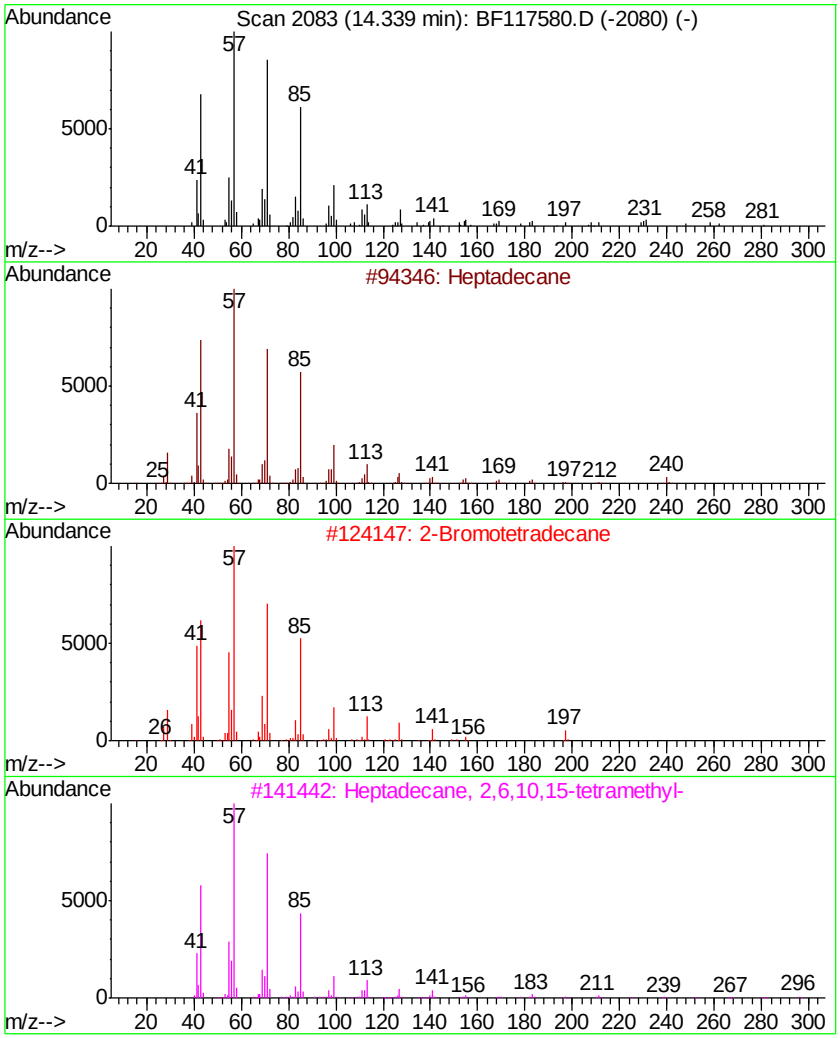
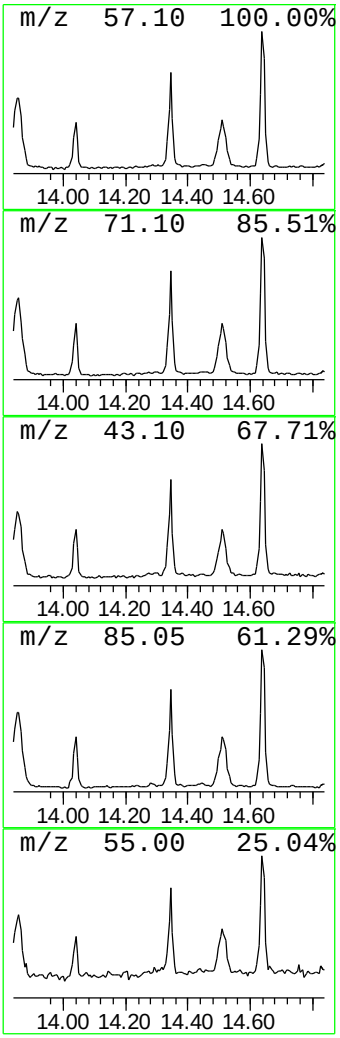
Peak Number 17 Heptadecane Concentration Rank 7

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 14.34 | 9.16 ng | 197925 | Chrysene-d12 | 13.89 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Heptadecane | 240 | C17H36 | 000629-78-7 | 91 |
| 2 | 2-Bromotetradecane | 276 | C14H29Br | 074036-95-6 | 90 |
| 3 | Heptadecane, 2,6,10,15-tetramethyl- | 296 | C21H44 | 054833-48-6 | 87 |
| 4 | Heneicosane, 11-(1-ethylpropyl)- | 366 | C26H54 | 055282-11-6 | 86 |
| 5 | Octadecane, 1-iodo- | 380 | C18H37I | 000629-93-6 | 86 |



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF102919\
Data File : BF117580.D
Acq On : 29 Oct 2019 10:30
Operator : JU
Sample : K5563-07
Misc :
ALS Vial : 3 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** TP-1

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF101819.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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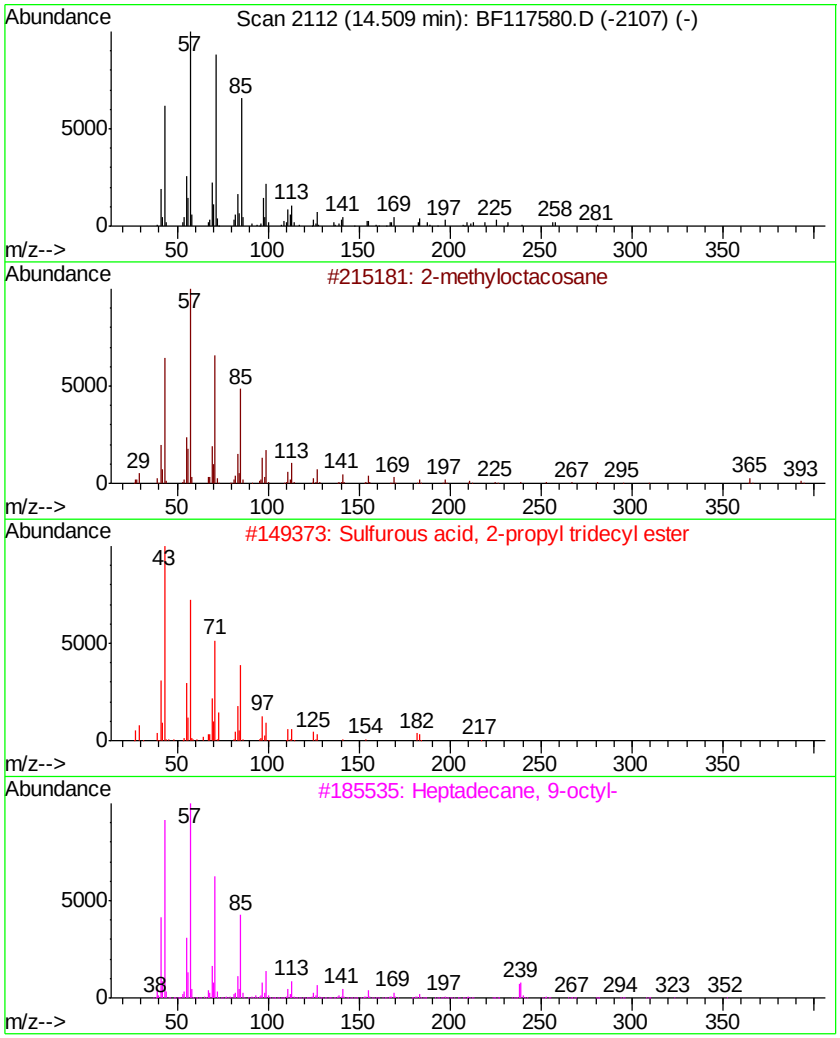
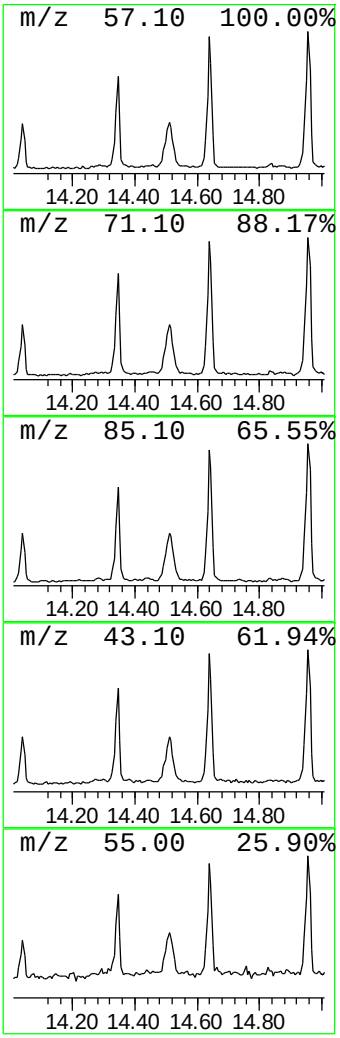
Peak Number 18 2-methyloctacosane Concentration Rank 8

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 14.51 | 9.03 ng | 195192 | Chrysene-d12 | 13.89 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 2-methyloctacosane | 408 | C29H60 | 1000376-72-8 | 91 |
| 2 | Sulfurous acid, 2-propyl tridecy... | 306 | C16H34O3S | 1000309-12-4 | 86 |
| 3 | Heptadecane, 9-octyl- | 352 | C25H52 | 007225-64-1 | 86 |
| 4 | Heneicosane, 11-(1-ethylpropyl)- | 366 | C26H54 | 055282-11-6 | 86 |
| 5 | Heptadecane | 240 | C17H36 | 000629-78-7 | 86 |



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF102919\
Data File : BF117580.D
Acq On : 29 Oct 2019 10:30
Operator : JU
Sample : K5563-07
Misc :
ALS Vial : 3 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** TP-1

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF101819.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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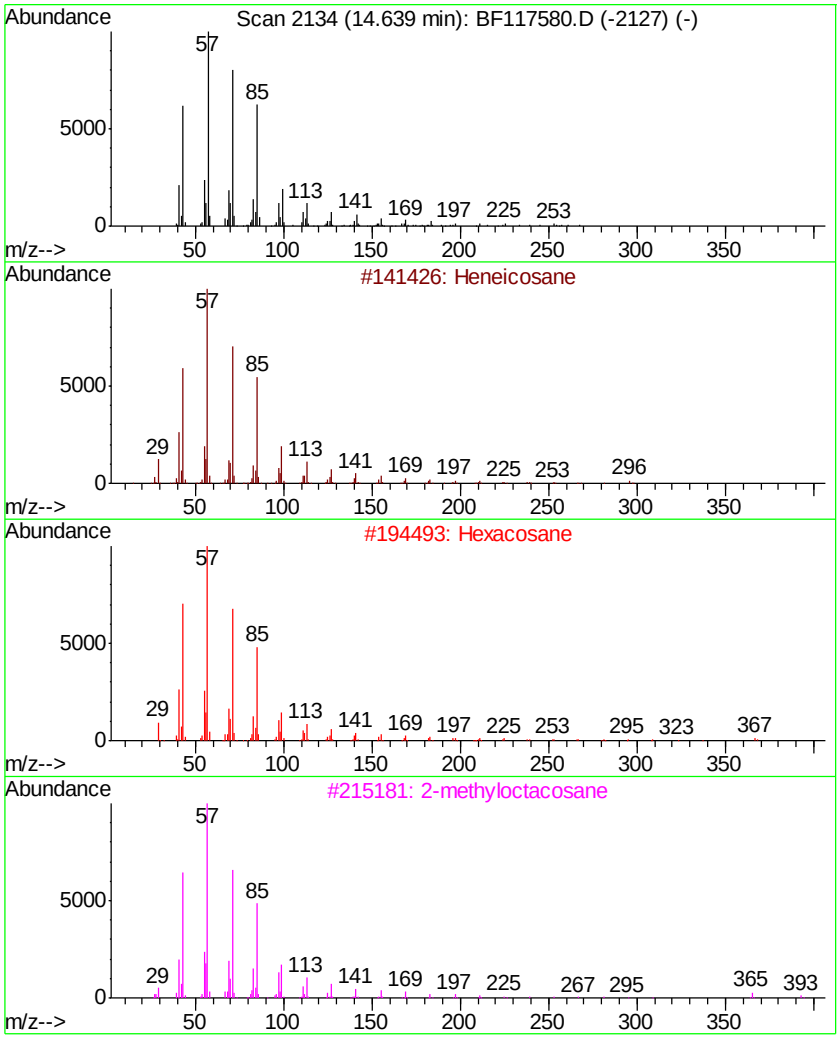
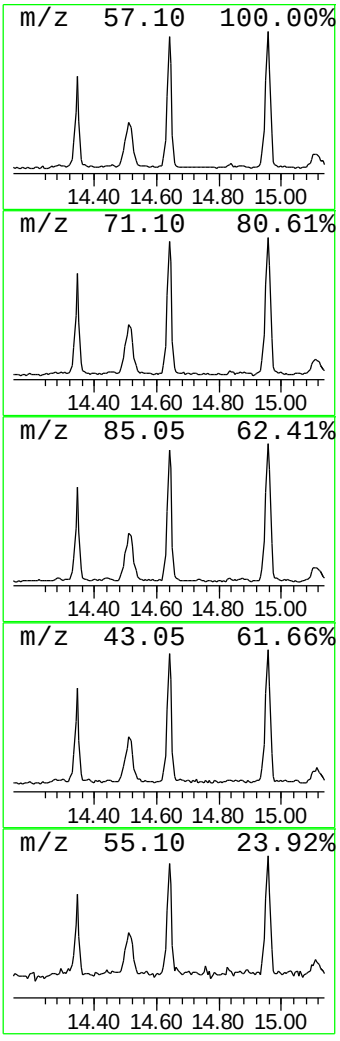
Peak Number 19 Octadecane Concentration Rank 4

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 14.64 | 13.22 ng | 344341 | Perylene-d12 | 15.33 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Heneicosane | 296 | C21H44 | 000629-94-7 | 91 |
| 2 | Hexacosane | 366 | C26H54 | 000630-01-3 | 91 |
| 3 | 2-methyloctacosane | 408 | C29H60 | 1000376-72-8 | 91 |
| 4 | Octadecane | 254 | C18H38 | 000593-45-3 | 87 |
| 5 | Heptadecane | 240 | C17H36 | 000629-78-7 | 86 |



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF102919\
Data File : BF117580.D
Acq On : 29 Oct 2019 10:30
Operator : JU
Sample : K5563-07
Misc :
ALS Vial : 3 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** TP-1

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF101819.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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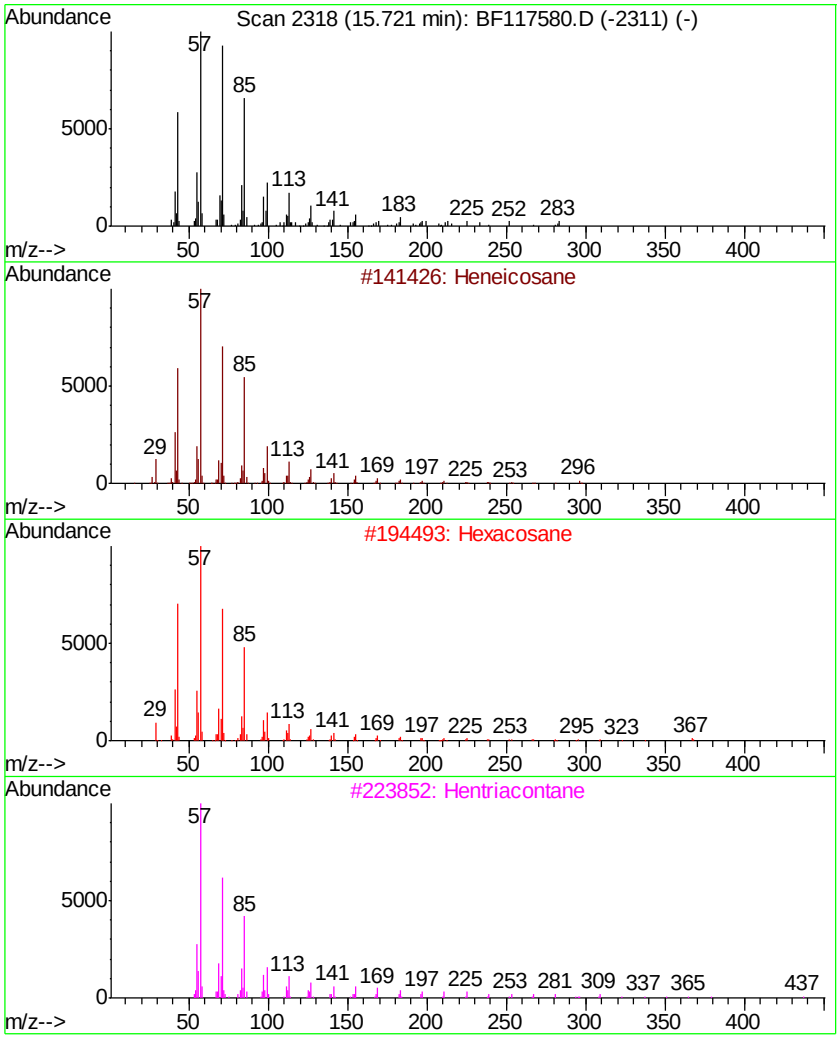
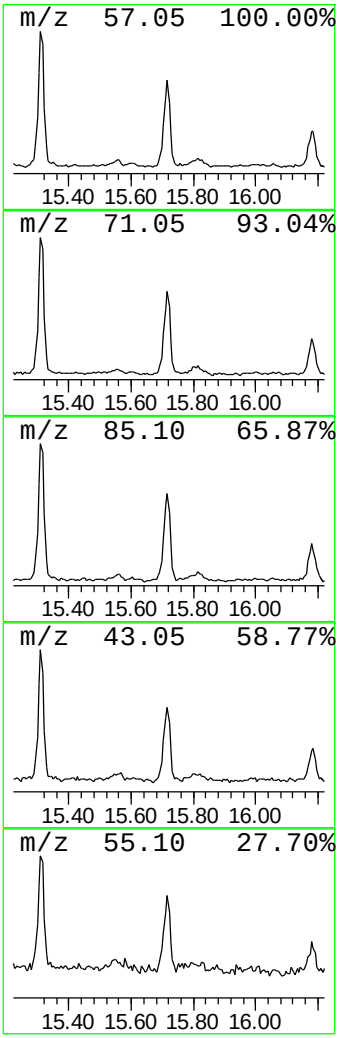
Peak Number 20 Triacontane Concentration Rank 9

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 15.72 | 8.46 ng | 220330 | Perylene-d12 | 15.33 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Heneicosane | 296 | C21H44 | 000629-94-7 | 91 |
| 2 | Hexacosane | 366 | C26H54 | 000630-01-3 | 91 |
| 3 | Hentriacontane | 437 | C31H64 | 000630-04-6 | 91 |
| 4 | Triacontane | 422 | C30H62 | 000638-68-6 | 91 |
| 5 | Heptadecane, 9-octyl- | 352 | C25H52 | 007225-64-1 | 91 |



Tentatively Identified Compound (LSC) summary

Data Path : Z:\SVOASRV\HPCHEM1\BNA_F\DATA\BF102919\
Data File : BF117580.D
Acq On : 29 Oct 2019 10:30
Operator : JU
Sample : K5563-07
Misc :
ALS Vial : 3 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** TP-1

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF101819.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 |
| 2-Pentanone, 4-hy... | 4.93 | 9.2 | ng | 162425 | 1 | 6.73 | 352713 | 20.0 |
| unknown6.50 | 6.50 | 50.4 | ng | 888441 | 1 | 6.73 | 352713 | 20.0 |
| Benzene, 1,2,3-tr... | 6.55 | 7.1 | ng | 124745 | 1 | 6.73 | 352713 | 20.0 |
| Benzene, 1,3-diet... | 7.05 | 5.7 | ng | 100191 | 1 | 6.73 | 352713 | 20.0 |
| Naphthalene, deca... | 7.12 | 5.5 | ng | 96844 | 1 | 6.73 | 352713 | 20.0 |
| Benzene, pentamet... | 7.66 | 7.0 | ng | 205541 | 2 | 8.01 | 584785 | 20.0 |
| Benzene, 1,2,4,5-... | 7.75 | 6.4 | ng | 188292 | 2 | 8.01 | 584785 | 20.0 |
| Benzenesulfonamid... | 10.43 | 6.2 | ng | 138415 | 3 | 9.76 | 450286 | 20.0 |
| Benzenesulfonamid... | 10.63 | 6.7 | ng | 136392 | 4 | 11.24 | 407979 | 20.0 |
| Tetradecanoic acid | 11.77 | 6.8 | ng | 139052 | 4 | 11.24 | 407979 | 20.0 |
| Phenol, 2-[(4-hyd... | 12.07 | 7.6 | ng | 155411 | 4 | 11.24 | 407979 | 20.0 |
| Phenol, 4,4'-meth... | 12.32 | 9.3 | ng | 188701 | 4 | 11.24 | 407979 | 20.0 |
| Hexacosane | 12.92 | 20.0 | ng | 432955 | 5 | 13.89 | 432256 | 20.0 |
| 1-Octadecanesulph... | 13.73 | 7.2 | ng | 155904 | 5 | 13.89 | 432256 | 20.0 |
| Heneicosane | 14.04 | 5.7 | ng | 124097 | 5 | 13.89 | 432256 | 20.0 |
| Heptadecane | 14.34 | 9.2 | ng | 197925 | 5 | 13.89 | 432256 | 20.0 |
| 2-methyloctacosane | 14.51 | 9.0 | ng | 195192 | 5 | 13.89 | 432256 | 20.0 |
| Octadecane | 14.64 | 13.2 | ng | 344341 | 6 | 15.33 | 520970 | 20.0 |
| Triacontane | 15.72 | 8.5 | ng | 220330 | 6 | 15.33 | 520970 | 20.0 |