LSC Area Percent Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM100819\
Data File : BM023058.D
Acq On : 08 Oct 2019 22:48
Operator : JU
Sample : K5057-09DL 2X
Misc :
ALS Vial : 25 Sample Multiplier: 1

**Instrument :** BNA_M
**ClientSampleId :** DBAJ5DL

Integration Parameters: LSCINT.P
Integrator: RTE
Smoothing : OFF Filtering: 5
Sampling : 1 Min Area: 0.1 % 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_M\METHODS\SOM-EPA-BM092719MA.M
Title : SVOA CALIBRATION

Signal : TIC

| peak # | R.T. min | first scan | max scan | last scan | PK TY | peak height | corr. area | corr. % max. | % of total |
|---|---|---|---|---|---|---|---|---|---|
| 1 | 3.034 | 6 | 8 | 19 | rVB | 55474 | 82904 | 0.86% | 0.071% |
| 2 | 3.769 | 129 | 133 | 140 | rBV | 60029 | 81698 | 0.84% | 0.070% |
| 3 | 4.916 | 322 | 328 | 338 | rBV2 | 44962 | 98993 | 1.02% | 0.084% |
| 4 | 6.940 | 665 | 672 | 686 | rVB2 | 237380 | 443720 | 4.58% | 0.377% |
| 5 | 7.110 | 695 | 701 | 709 | rBV | 176485 | 293866 | 3.03% | 0.250% |
| 6 | 7.310 | 729 | 735 | 748 | rVB | 250299 | 419775 | 4.33% | 0.357% |
| 7 | 7.775 | 807 | 814 | 822 | rVB | 981191 | 1557397 | 16.07% | 1.325% |
| 8 | 8.475 | 927 | 933 | 941 | rBV | 281665 | 447935 | 4.62% | 0.381% |
| 9 | 8.604 | 949 | 955 | 961 | rVB2 | 27756 | 47724 | 0.49% | 0.041% |
| 10 | 8.881 | 991 | 1002 | 1004 | rBV3 | 20084 | 36312 | 0.37% | 0.031% |
| 11 | 8.928 | 1004 | 1010 | 1021 | rVB | 209103 | 361726 | 3.73% | 0.308% |
| 12 | 9.645 | 1126 | 1132 | 1139 | rBV | 157875 | 263248 | 2.72% | 0.224% |
| 13 | 10.187 | 1217 | 1224 | 1234 | rVB | 281230 | 466908 | 4.82% | 0.397% |
| 14 | 10.563 | 1278 | 1288 | 1293 | rBV | 1365547 | 2265177 | 23.37% | 1.927% |
| 15 | 10.610 | 1293 | 1296 | 1303 | rVV | 539209 | 825665 | 8.52% | 0.702% |
| 16 | 10.698 | 1303 | 1311 | 1325 | rVV | 170170 | 321632 | 3.32% | 0.274% |
| 17 | 12.228 | 1563 | 1571 | 1580 | rBV | 205195 | 309900 | 3.20% | 0.264% |
| 18 | 12.445 | 1602 | 1608 | 1618 | rVB | 118696 | 191666 | 1.98% | 0.163% |
| 19 | 13.245 | 1739 | 1744 | 1752 | rVB2 | 49388 | 82566 | 0.85% | 0.070% |
| 20 | 13.439 | 1773 | 1777 | 1790 | rVB | 39769 | 70245 | 0.72% | 0.060% |
| 21 | 13.569 | 1790 | 1799 | 1801 | rBV | 47087 | 70049 | 0.72% | 0.060% |
| 22 | 13.733 | 1821 | 1827 | 1832 | rBV | 85633 | 141862 | 1.46% | 0.121% |
| 23 | 13.786 | 1832 | 1836 | 1837 | rVV | 50829 | 63091 | 0.65% | 0.054% |
| 24 | 13.816 | 1837 | 1841 | 1846 | rVV | 468134 | 681791 | 7.04% | 0.580% |
| 25 | 13.869 | 1846 | 1850 | 1854 | rVV | 145412 | 206770 | 2.13% | 0.176% |
| 26 | 13.969 | 1860 | 1867 | 1871 | rBV2 | 52021 | 83319 | 0.86% | 0.071% |
| 27 | 14.104 | 1879 | 1890 | 1896 | rBV | 577294 | 899740 | 9.28% | 0.765% |
| 28 | 14.151 | 1896 | 1898 | 1903 | rVB2 | 35734 | 46388 | 0.48% | 0.039% |
| 29 | 14.410 | 1933 | 1942 | 1947 | rBV | 1948522 | 2985629 | 30.81% | 2.540% |
| 30 | 14.474 | 1947 | 1953 | 1960 | rVV | 1110321 | 1670039 | 17.23% | 1.421% |
| 31 | 14.539 | 1960 | 1964 | 1970 | rVB | 32647 | 44985 | 0.46% | 0.038% |
| 32 | 14.604 | 1970 | 1975 | 1988 | rBV2 | 120261 | 247708 | 2.56% | 0.211% |
| 33 | 14.722 | 1989 | 1995 | 1999 | rVB2 | 32797 | 51871 | 0.54% | 0.044% |
| 34 | 14.810 | 2004 | 2010 | 2017 | rVB | 469414 | 727716 | 7.51% | 0.619% |

LSC Area Percent Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM100819\
Data File : BM023058.D
Acq On : 08 Oct 2019 22:48
Operator : JU
Sample : K5057-09DL 2X
Misc :
ALS Vial : 25 Sample Multiplier: 1

**Instrument :** BNA_M
**ClientSampleId :** DBAJ5DL

Integration Parameters: LSCINT.P
Integrator: RTE
Smoothing : OFF Filtering: 5
Sampling : 1 Min Area: 0.1 % 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_M\METHODS\SOM-EPA-BM092719MA.M
Title : SVOA CALIBRATION

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 35 | 14.886 | 2017 | 2023 | 2028 | rVB | 32570 | 49004 | 0.51% | 0.042% |
| 36 | 14.945 | 2029 | 2033 | 2039 | rVB4 | 19572 | 30606 | 0.32% | 0.026% |
| 37 | 15.033 | 2042 | 2048 | 2052 | rBV2 | 24202 | 41839 | 0.43% | 0.036% |
| 38 | 15.080 | 2052 | 2056 | 2061 | rVB | 30625 | 42803 | 0.44% | 0.036% |
| 39 | 15.204 | 2069 | 2077 | 2079 | rBV4 | 23472 | 46261 | 0.48% | 0.039% |
| 40 | 15.404 | 2102 | 2111 | 2115 | rBV | 772631 | 1140384 | 11.77% | 0.970% |
| 41 | 15.457 | 2115 | 2120 | 2126 | rVV | 1065759 | 1453321 | 15.00% | 1.236% |
| 42 | 15.516 | 2126 | 2130 | 2134 | rVV | 106543 | 155775 | 1.61% | 0.133% |
| 43 | 15.551 | 2134 | 2136 | 2138 | rVV | 36406 | 43224 | 0.45% | 0.037% |
| 44 | 15.580 | 2138 | 2141 | 2144 | rVV2 | 90967 | 114574 | 1.18% | 0.097% |
| 45 | 15.621 | 2144 | 2148 | 2152 | rVV2 | 124168 | 167588 | 1.73% | 0.143% |
| 46 | 15.674 | 2152 | 2157 | 2160 | rVV2 | 105327 | 166707 | 1.72% | 0.142% |
| 47 | 15.704 | 2160 | 2162 | 2166 | rVB | 67969 | 81835 | 0.84% | 0.070% |
| 48 | 15.751 | 2166 | 2170 | 2179 | rVB | 128869 | 214787 | 2.22% | 0.183% |
| 49 | 15.839 | 2180 | 2185 | 2188 | rBV6 | 15478 | 31608 | 0.33% | 0.027% |
| 50 | 15.898 | 2188 | 2195 | 2203 | rBV2 | 127455 | 279034 | 2.88% | 0.237% |
| 51 | 15.969 | 2203 | 2207 | 2208 | rBV2 | 31729 | 39214 | 0.40% | 0.033% |
| 52 | 16.092 | 2224 | 2228 | 2231 | rVV3 | 36619 | 51648 | 0.53% | 0.044% |
| 53 | 16.157 | 2231 | 2239 | 2249 | rVV | 298749 | 532981 | 5.50% | 0.453% |
| 54 | 16.251 | 2251 | 2255 | 2261 | rVV3 | 62094 | 97559 | 1.01% | 0.083% |
| 55 | 16.392 | 2273 | 2279 | 2280 | rBV5 | 25164 | 41652 | 0.43% | 0.035% |
| 56 | 16.463 | 2284 | 2291 | 2295 | rBV2 | 121559 | 212406 | 2.19% | 0.181% |
| 57 | 16.510 | 2295 | 2299 | 2302 | rBV2 | 59088 | 83985 | 0.87% | 0.071% |
| 58 | 16.610 | 2310 | 2316 | 2321 | rVB2 | 54130 | 105664 | 1.09% | 0.090% |
| 59 | 16.663 | 2322 | 2325 | 2327 | rBV2 | 39700 | 49753 | 0.51% | 0.042% |
| 60 | 16.733 | 2333 | 2337 | 2340 | rBV3 | 82571 | 93051 | 0.96% | 0.079% |
| 61 | 16.886 | 2359 | 2363 | 2364 | rBV3 | 53870 | 71051 | 0.73% | 0.060% |
| 62 | 16.974 | 2372 | 2378 | 2389 | rVB2 | 864721 | 1395338 | 14.40% | 1.187% |
| 63 | 17.068 | 2390 | 2394 | 2400 | rBV4 | 64154 | 119142 | 1.23% | 0.101% |
| 64 | 17.151 | 2402 | 2408 | 2411 | rVV2 | 2235687 | 3220757 | 33.23% | 2.740% |
| 65 | 17.198 | 2411 | 2416 | 2421 | rVV | 6050451 | 8605059 | 88.79% | 7.321% |
| 66 | 17.251 | 2421 | 2425 | 2427 | rVV | 914152 | 1282674 | 13.24% | 1.091% |
| 67 | 17.280 | 2427 | 2430 | 2436 | rVV | 1639760 | 2262868 | 23.35% | 1.925% |
| 68 | 17.345 | 2436 | 2441 | 2446 | rVV | 145678 | 240945 | 2.49% | 0.205% |
| 69 | 17.551 | 2467 | 2476 | 2479 | rBV | 845585 | 1513085 | 15.61% | 1.287% |
| 70 | 17.580 | 2479 | 2481 | 2486 | rVB | 302058 | 376227 | 3.88% | 0.320% |
| 71 | 18.027 | 2552 | 2557 | 2560 | rBV | 368368 | 578255 | 5.97% | 0.492% |

LSC Area Percent Report

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Acq On : 08 Oct 2019 22:48
Operator : JU
Sample : K5057-09DL 2X
Misc :
ALS Vial : 25 Sample Multiplier: 1

**Instrument :** BNA_M
**ClientSampleId :** DBAJ5DL

Integration Parameters: LSCINT.P
Integrator: RTE
Smoothing : OFF Filtering: 5
Sampling : 1 Min Area: 0.1 % 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_M\METHODS\SOM-EPA-BM092719MA.M
Title : SVOA CALIBRATION

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 72 | 18.074 | 2561 | 2565 | 2570 | rVB | 540518 | 768172 | 7.93% | 0.654% |
| 73 | 18.151 | 2575 | 2578 | 2583 | rVV | 196884 | 326237 | 3.37% | 0.278% |
| 74 | 18.221 | 2584 | 2590 | 2593 | rVV2 | 942341 | 1644105 | 16.96% | 1.399% |
| 75 | 18.257 | 2593 | 2596 | 2601 | rVV | 401262 | 595282 | 6.14% | 0.506% |
| 76 | 18.310 | 2602 | 2605 | 2610 | rVB2 | 149364 | 232033 | 2.39% | 0.197% |
| 77 | 18.527 | 2638 | 2642 | 2646 | rBV2 | 380016 | 495650 | 5.11% | 0.422% |
| 78 | 18.633 | 2656 | 2660 | 2668 | rVB4 | 629582 | 953681 | 9.84% | 0.811% |
| 79 | 18.774 | 2680 | 2684 | 2688 | rBV | 1162662 | 1506649 | 15.55% | 1.282% |
| 80 | 18.815 | 2688 | 2691 | 2695 | rVB2 | 489207 | 650700 | 6.71% | 0.554% |
| 81 | 18.933 | 2708 | 2711 | 2717 | rVB4 | 297710 | 548688 | 5.66% | 0.467% |
| 82 | 19.151 | 2745 | 2748 | 2753 | rBV2 | 449892 | 844407 | 8.71% | 0.718% |
| 83 | 19.209 | 2753 | 2758 | 2763 | rVV | 7094763 | 9691313 | 100.00% | 8.245% |
| 84 | 19.274 | 2766 | 2769 | 2773 | rVB3 | 448233 | 599914 | 6.19% | 0.510% |
| 85 | 19.545 | 2810 | 2815 | 2817 | rBV3 | 2427464 | 3834376 | 39.57% | 3.262% |
| 86 | 19.574 | 2817 | 2820 | 2824 | rVB | 5295269 | 6682286 | 68.95% | 5.685% |
| 87 | 19.745 | 2844 | 2849 | 2856 | rBV3 | 1053557 | 2186055 | 22.56% | 1.860% |
| 88 | 19.898 | 2867 | 2875 | 2881 | rBV5 | 767149 | 2522164 | 26.02% | 2.146% |
| 89 | 20.068 | 2901 | 2904 | 2908 | rBV | 1200028 | 1398060 | 14.43% | 1.189% |
| 90 | 20.168 | 2917 | 2921 | 2925 | rVB2 | 1655151 | 2163371 | 22.32% | 1.840% |
| 91 | 20.409 | 2958 | 2962 | 2967 | rBV3 | 668236 | 1289773 | 13.31% | 1.097% |
| 92 | 21.027 | 3063 | 3067 | 3070 | rBV2 | 1304037 | 2204794 | 22.75% | 1.876% |
| 93 | 21.327 | 3113 | 3118 | 3123 | rBV2 | 4831632 | 9359411 | 96.58% | 7.962% |
| 94 | 21.374 | 3123 | 3126 | 3136 | rVB | 3411287 | 4673213 | 48.22% | 3.976% |
| 95 | 21.492 | 3142 | 3146 | 3150 | rBV | 1351571 | 1844938 | 19.04% | 1.570% |
| 96 | 22.915 | 3383 | 3388 | 3393 | rBV | 2412513 | 5269390 | 54.37% | 4.483% |
| 97 | 23.397 | 3466 | 3470 | 3475 | rBV | 1330880 | 2140081 | 22.08% | 1.821% |
| 98 | 23.492 | 3482 | 3486 | 3495 | rVB | 2439202 | 4789702 | 49.42% | 4.075% |
| 99 | 23.592 | 3499 | 3503 | 3508 | rVB | 1901178 | 3393958 | 35.02% | 2.887% |
| 100 | 25.868 | 3886 | 3890 | 3902 | rVB | 1307298 | 3315256 | 34.21% | 2.820% |

Sum of corrected areas: 117546338

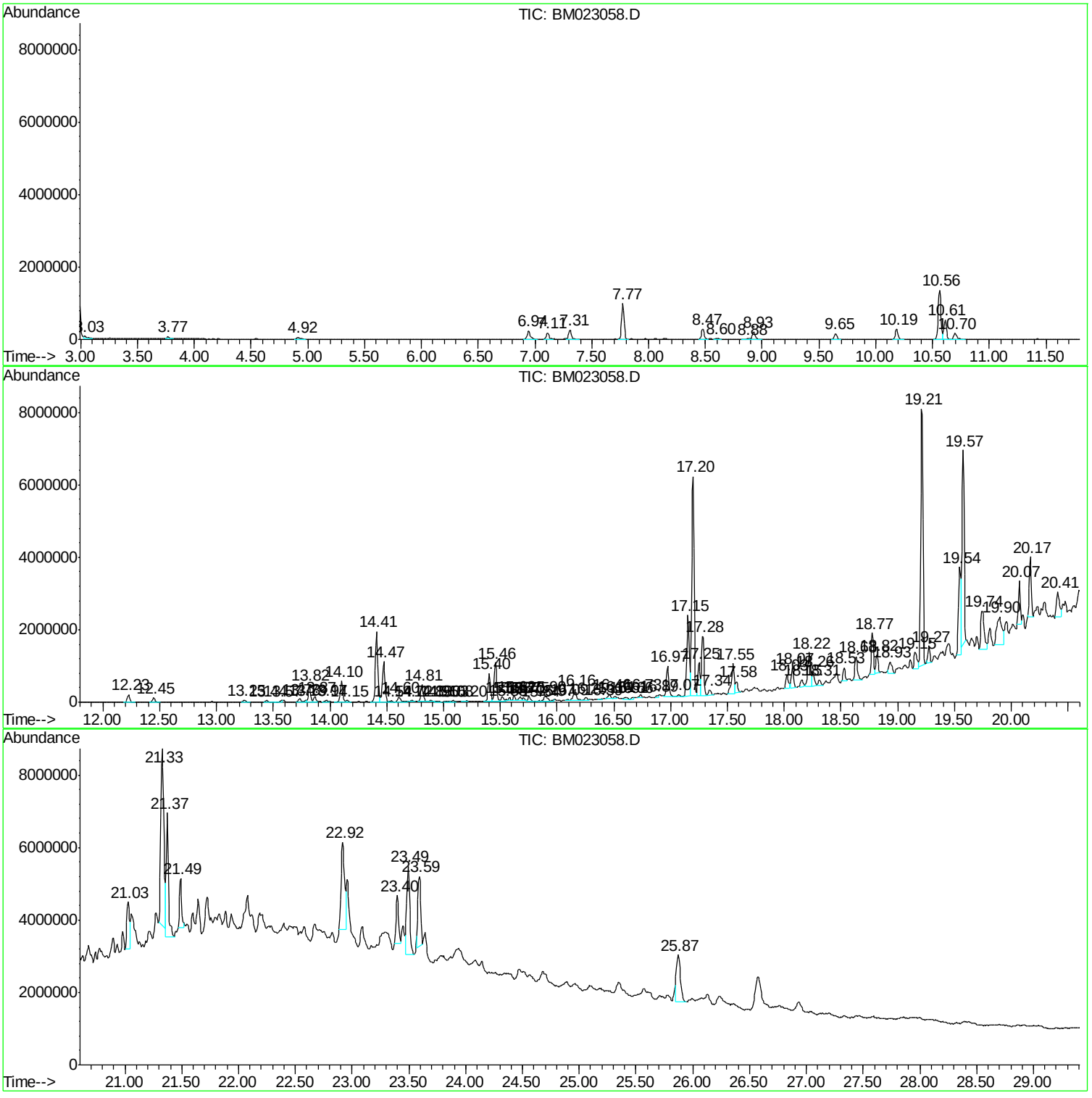
LSC Report - Integrated Chromatogram

Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM100819\
Data File : BM023058.D
Acq On : 08 Oct 2019 22:48
Operator : JU
Sample : K5057-09DL 2X
Misc :
ALS Vial : 25 Sample Multiplier: 1

**Instrument :** BNA_M
**ClientSampleId :** DBAJ5DL

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM092719MA.M
Quant Title : SVOA CALIBRATION

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



Library Search Compound Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM100819\
Data File : BM023058.D
Acq On : 08 Oct 2019 22:48
Operator : JU
Sample : K5057-09DL 2X
Misc :
ALS Vial : 25 Sample Multiplier: 1

**Instrument :** BNA_M
**ClientSampleId :** DBAJ5DL

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM092719MA.M
Quant Title : SVOA CALIBRATION

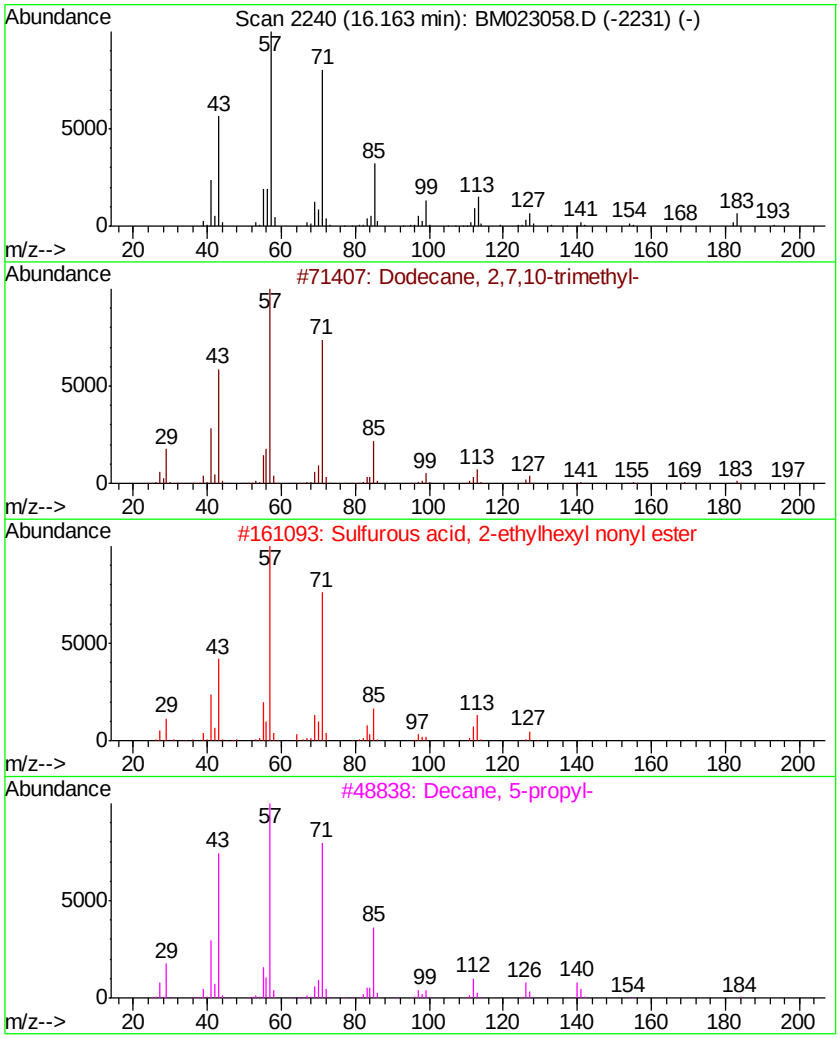
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

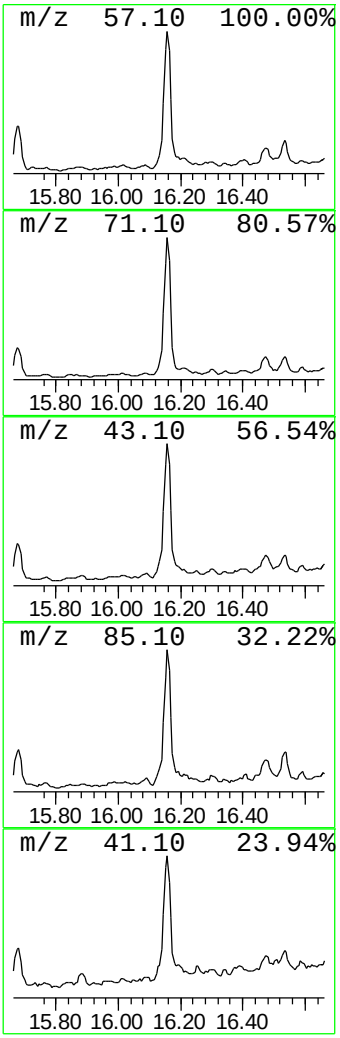
**********

Peak Number 1 (DEL) Alkane: Straight-Chai... Concentration Rank 16

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 16.16 | 3.31 ng/ul | 532981 | Phenanthrene-d10 | 17.15 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Dodecane, 2,7,10-trimethyl- | 212 | C15H32 | 074645-98-0 | 86 |
| 2 | Sulfurous acid, 2-ethylhexyl non... | 320 | C17H36O3S | 1000309-19-2 | 83 |
| 3 | Decane, 5-propyl- | 184 | C13H28 | 017312-62-8 | 83 |
| 4 | Tridecane, 5-propyl- | 226 | C16H34 | 055045-11-9 | 83 |
| 5 | Sulfurous acid, 2-ethylhexyl und... | 348 | C19H40O3S | 1000309-19-4 | 80 |



Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM100819\
Data File : BM023058.D
Acq On : 08 Oct 2019 22:48
Operator : JU
Sample : K5057-09DL 2X
Misc :
ALS Vial : 25 Sample Multiplier: 1

**Instrument :** BNA_M
**ClientSampleId :** DBAJ5DL

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM092719MA.M
Quant Title : SVOA CALIBRATION

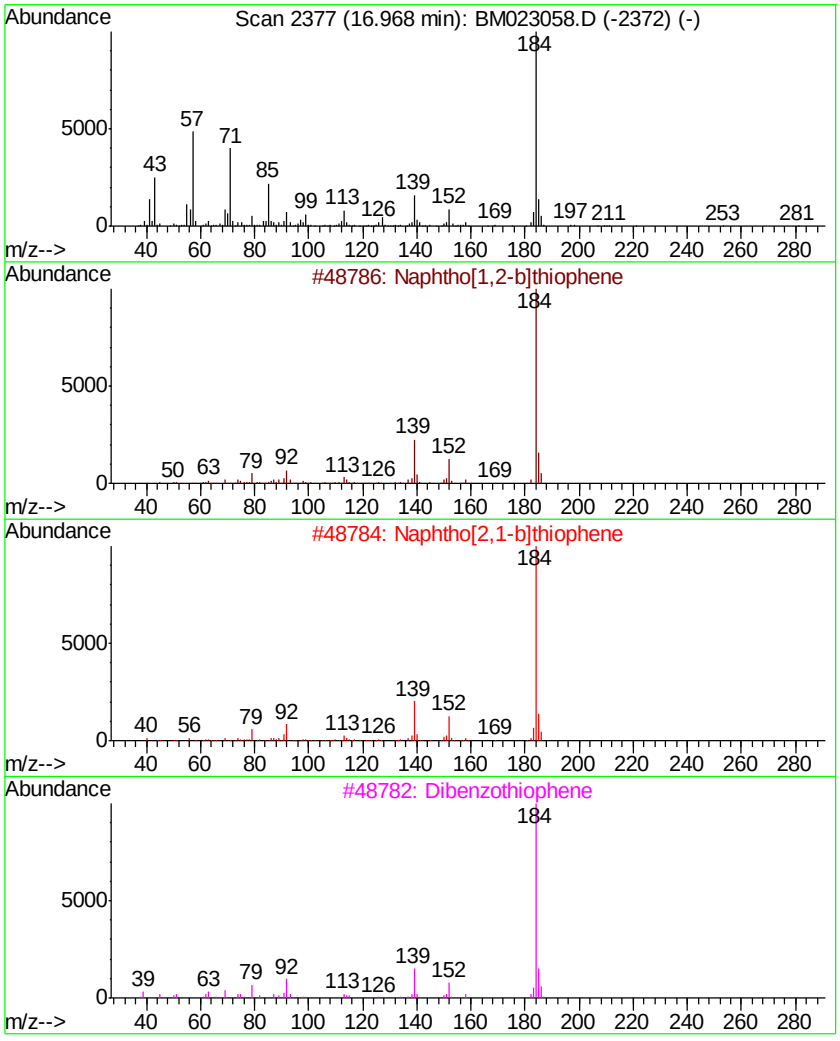
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

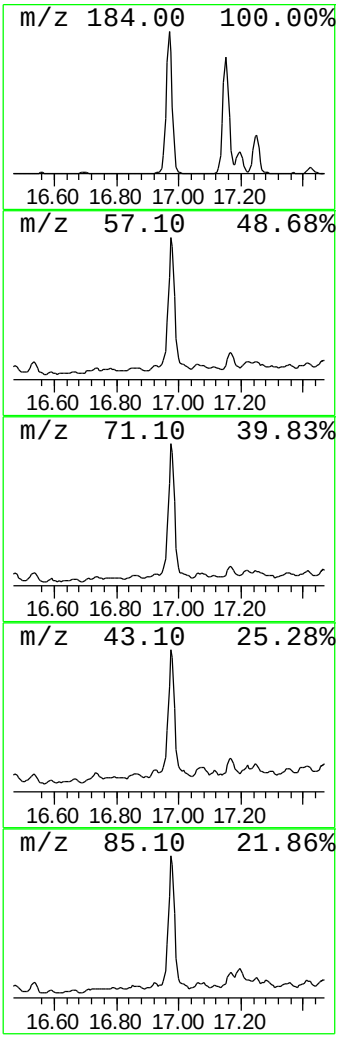
**********

Peak Number 2 Naphtho[1,2-b]thiophene Concentration Rank 3

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 16.97 | 8.66 ng/ul | 1395340 | Phenanthrene-d10 | 17.15 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Naphtho[1,2-b]thiophene | 184 | C12H8S | 000234-41-3 | 95 |
| 2 | Naphtho[2,1-b]thiophene | 184 | C12H8S | 000233-02-3 | 90 |
| 3 | Dibenzothiophene | 184 | C12H8S | 000132-65-0 | 90 |
| 4 | Dibenzothiophene | 184 | C12H8S | 000132-65-0 | 64 |
| 5 | Naphtho[2,3-b]thiophene | 184 | C12H8S | 000268-77-9 | 64 |



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Acq On : 08 Oct 2019 22:48
Operator : JU
Sample : K5057-09DL 2X
Misc :
ALS Vial : 25 Sample Multiplier: 1

**Instrument :** BNA_M
**ClientSampleId :** DBAJ5DL

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM092719MA.M
Quant Title : SVOA CALIBRATION

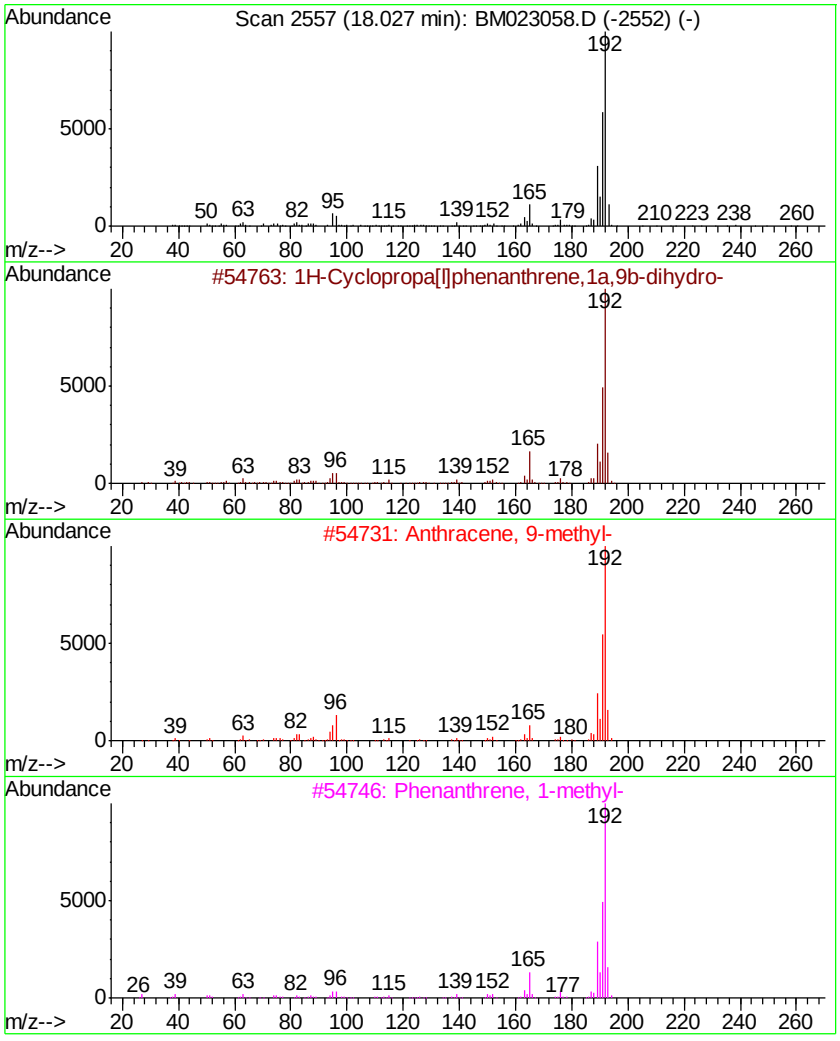
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

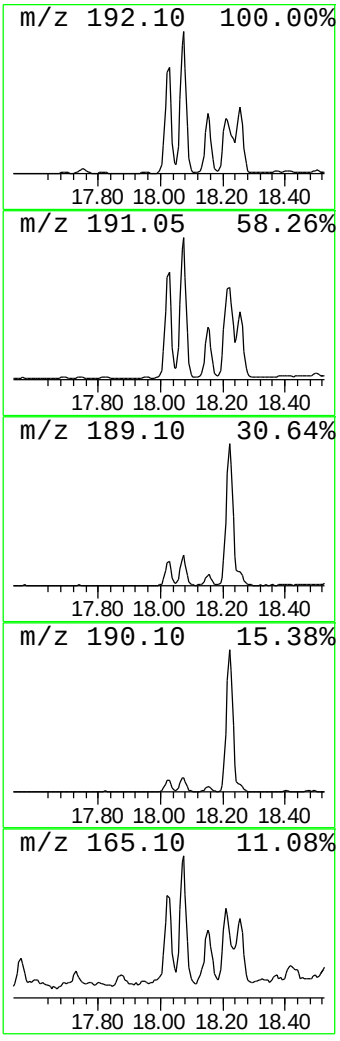
**********

Peak Number 3 1H-Cyclopropa[l]phenanthren... Concentration Rank 14

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 18.03 | 3.59 ng/ul | 578255 | Phenanthrene-d10 | 17.15 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 1H-Cyclopropa[l]phenanthrene,1a,... | 192 | C15H12 | 000949-41-7 | 94 |
| 2 | Anthracene, 9-methyl- | 192 | C15H12 | 000779-02-2 | 93 |
| 3 | Phenanthrene, 1-methyl- | 192 | C15H12 | 000832-69-9 | 91 |
| 4 | Phenanthrene, 2-methyl- | 192 | C15H12 | 002531-84-2 | 91 |
| 5 | 5H-Dibenzo[a,d]cycloheptene | 192 | C15H12 | 000256-81-5 | 91 |



# Library Search Compound Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM100819\
Data File : BM023058.D
Acq On : 08 Oct 2019 22:48
Operator : JU
Sample : K5057-09DL 2X
Misc :
ALS Vial : 25 Sample Multiplier: 1

**Instrument :** BNA_M
**ClientSampleId :** DBAJ5DL

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM092719MA.M
Quant Title : SVOA CALIBRATION

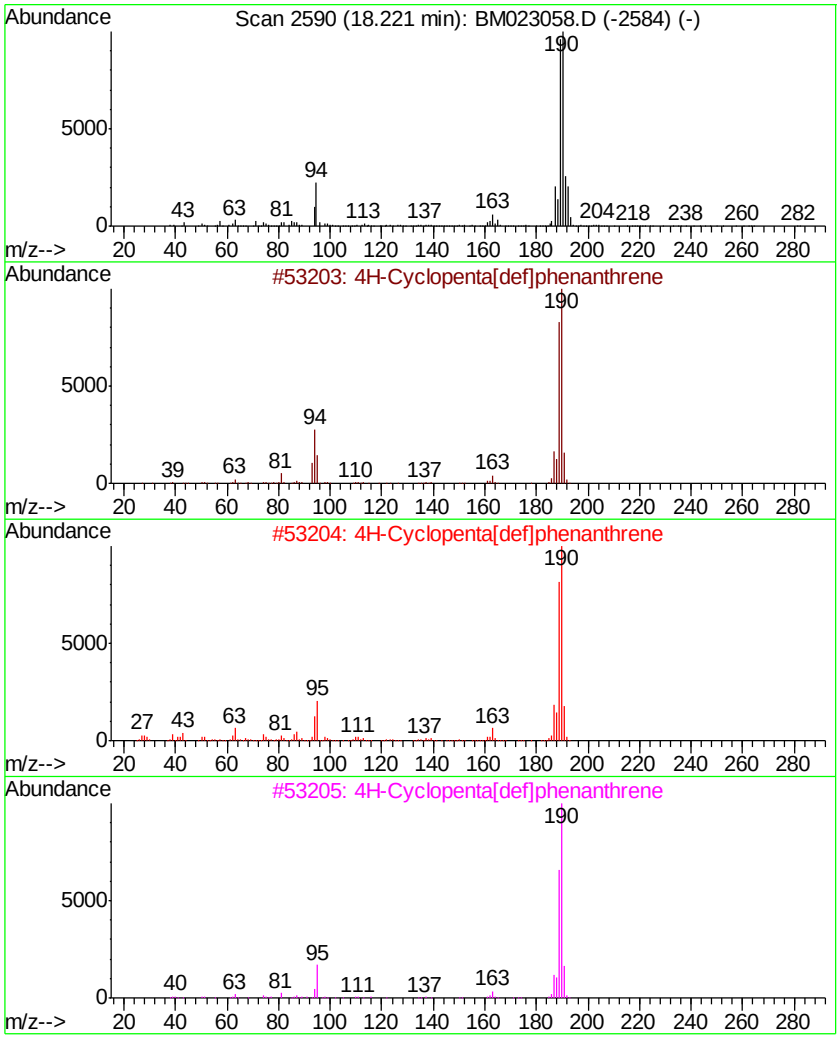
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

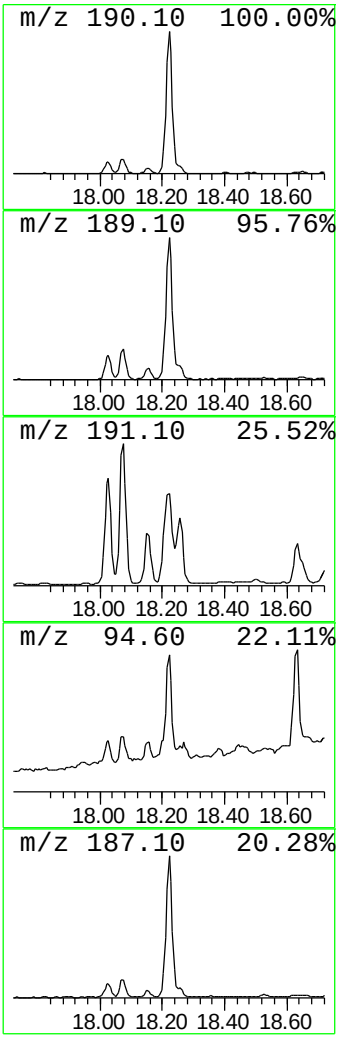
**********

Peak Number 6 4H-Cyclopenta[def]phenanthrene Concentration Rank 1

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 18.22 | 10.21 ng/ul | 1644110 | Phenanthrene-d10 | 17.15 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 4H-Cyclopenta[def]phenanthrene | 190 | C15H10 | 000203-64-5 | 93 |
| 2 | 4H-Cyclopenta[def]phenanthrene | 190 | C15H10 | 000203-64-5 | 76 |
| 3 | 4H-Cyclopenta[def]phenanthrene | 190 | C15H10 | 000203-64-5 | 68 |
| 4 | 6H-Cyclobuta[jk]phenanthrene | 190 | C15H10 | 083469-43-6 | 64 |
| 5 | 2,2'-Bis(4,5-dimethylimidazole) | 190 | C10H14N4 | 069286-06-2 | 45 |



Library Search Compound Report

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Data File : BM023058.D
Acq On : 08 Oct 2019 22:48
Operator : JU
Sample : K5057-09DL 2X
Misc :
ALS Vial : 25 Sample Multiplier: 1

**Instrument :** BNA_M
**ClientSampleId :** DBAJ5DL

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM092719MA.M
Quant Title : SVOA CALIBRATION

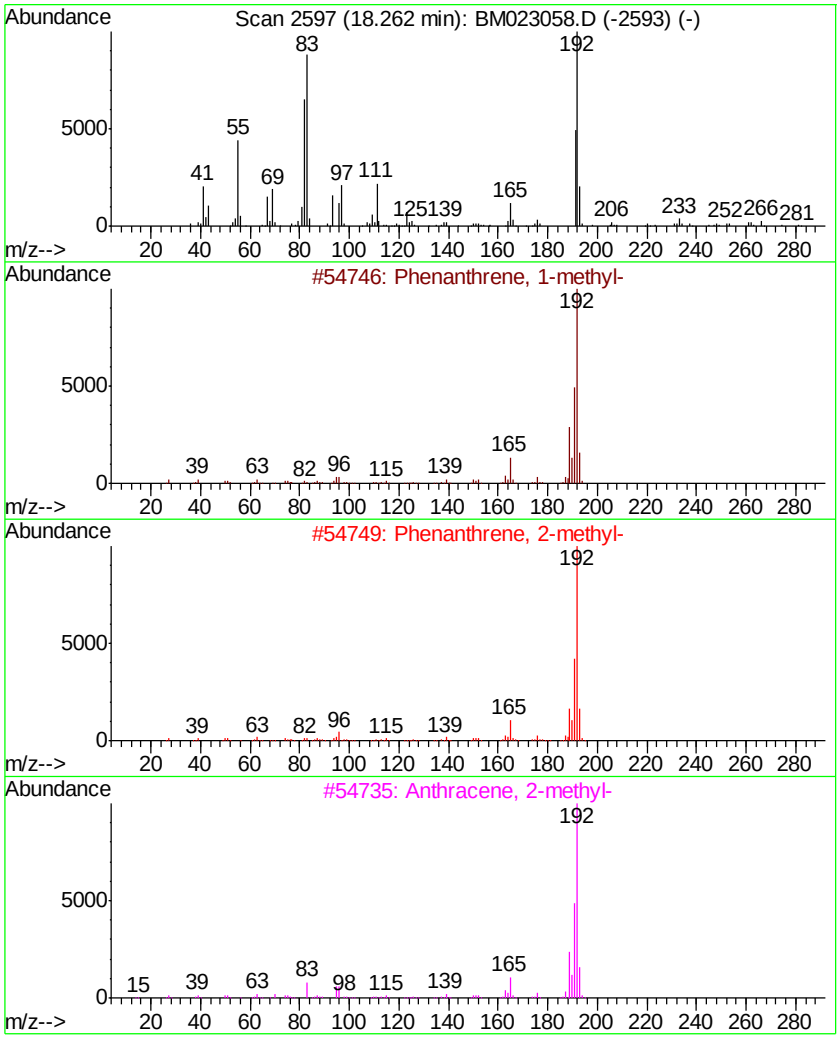
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

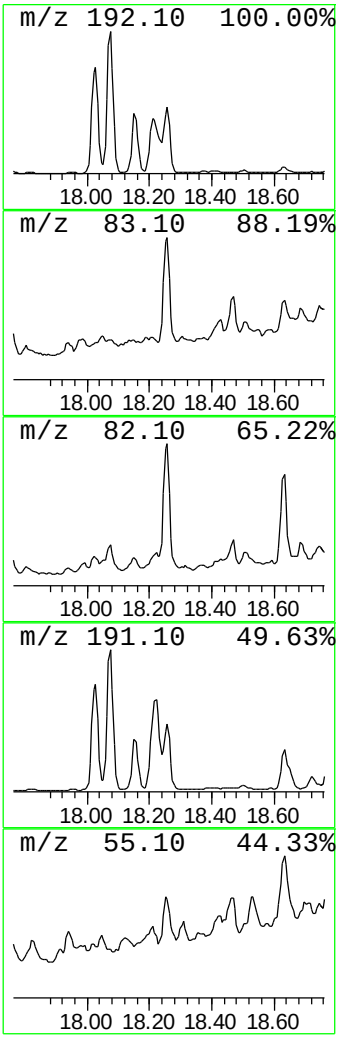
**********

Peak Number 7 Phenanthrene, 1-methyl- Concentration Rank 13

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 18.26 | 3.70 ng/ul | 595282 | Phenanthrene-d10 | 17.15 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Phenanthrene, 1-methyl- | 192 | C15H12 | 000832-69-9 | 50 |
| 2 | Phenanthrene, 2-methyl- | 192 | C15H12 | 002531-84-2 | 50 |
| 3 | Anthracene, 2-methyl- | 192 | C15H12 | 000613-12-7 | 50 |
| 4 | Anthracene, 1-methyl- | 192 | C15H12 | 000610-48-0 | 50 |
| 5 | n-Tridecylcyclohexane | 266 | C19H38 | 006006-33-3 | 46 |



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Data File : BM023058.D
Acq On : 08 Oct 2019 22:48
Operator : JU
Sample : K5057-09DL 2X
Misc :
ALS Vial : 25 Sample Multiplier: 1

**Instrument :** BNA_M
**ClientSampleId :** DBAJ5DL

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM092719MA.M
Quant Title : SVOA CALIBRATION

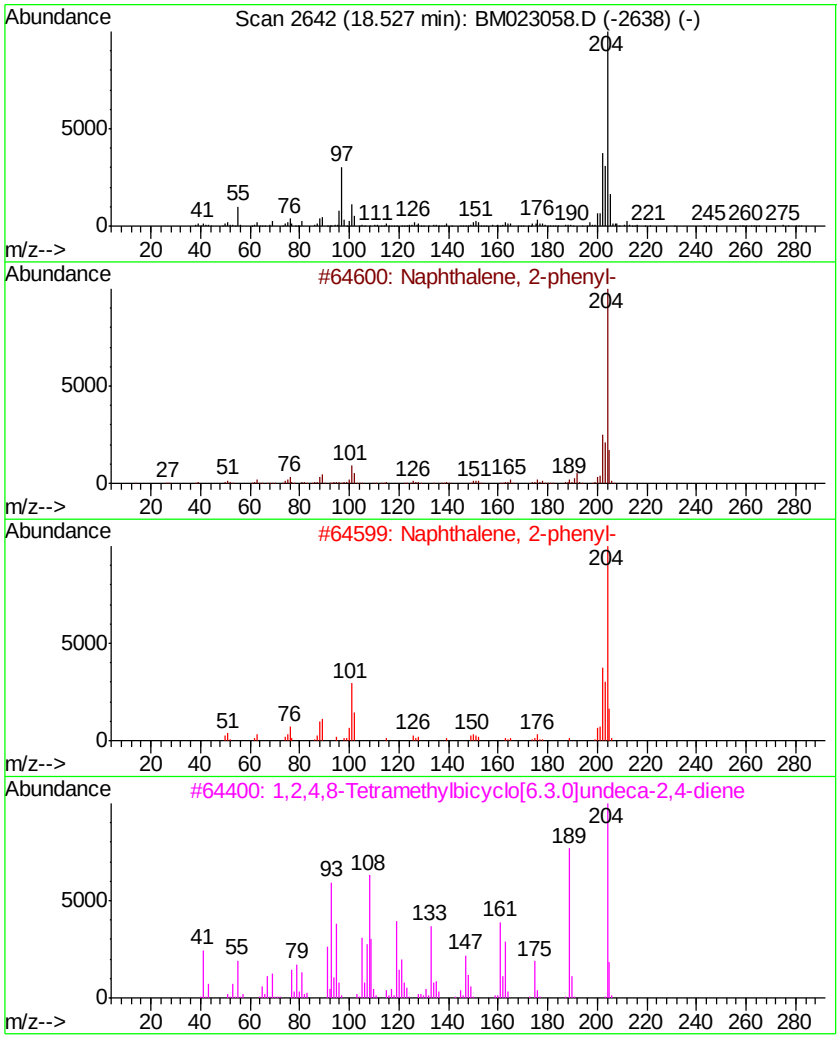
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

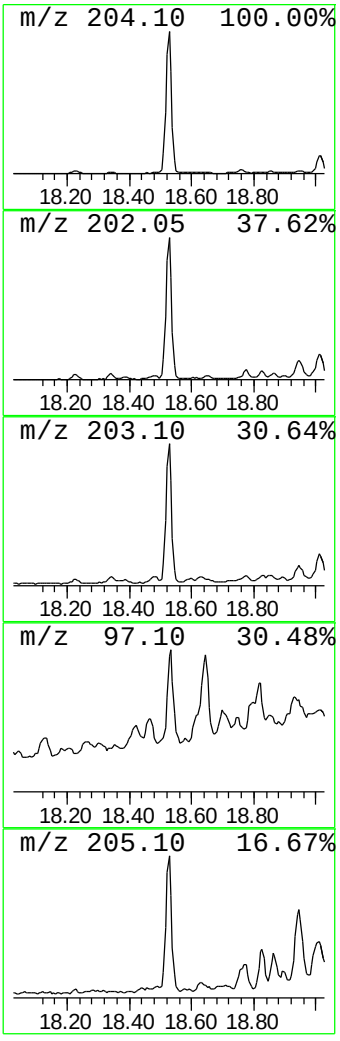
**********

Peak Number 8 Naphthalene, 2-phenyl- Concentration Rank 17

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 18.53 | 3.08 ng/ul | 495650 | Phenanthrene-d10 | 17.15 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Naphthalene, 2-phenyl- | 204 | C16H12 | 000612-94-2 | 93 |
| 2 | Naphthalene, 2-phenyl- | 204 | C16H12 | 000612-94-2 | 93 |
| 3 | 1,2,4,8-Tetramethylbicyclo[6.3.0... | 204 | C15H24 | 137235-51-9 | 86 |
| 4 | Naphthalene, 2-phenyl- | 204 | C16H12 | 000612-94-2 | 86 |
| 5 | 6-Phenylbenzocyclohepten-7-one | 232 | C17H12O | 093327-56-1 | 80 |



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Data File : BM023058.D
Acq On : 08 Oct 2019 22:48
Operator : JU
Sample : K5057-09DL 2X
Misc :
ALS Vial : 25 Sample Multiplier: 1

**Instrument :** BNA_M
**ClientSampleId :** DBAJ5DL

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM092719MA.M
Quant Title : SVOA CALIBRATION

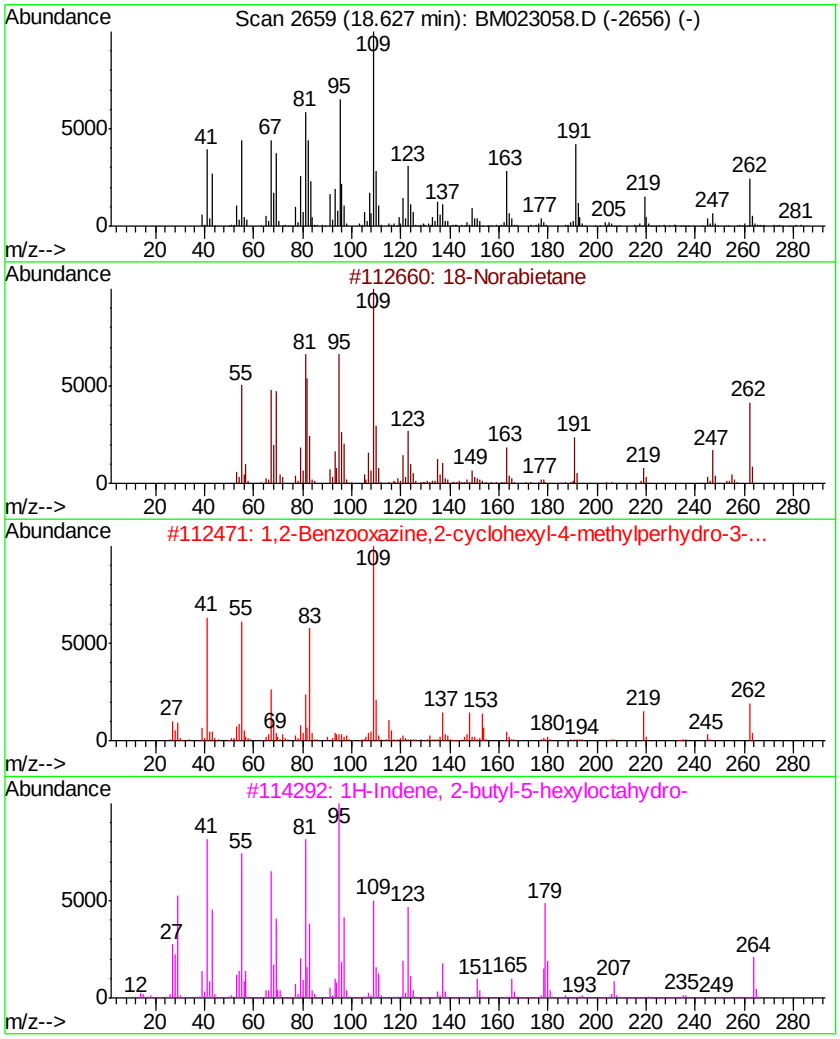
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

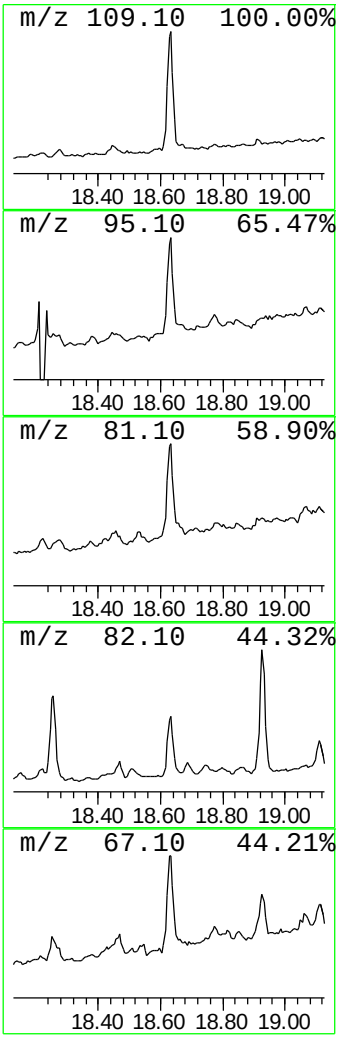
**********

Peak Number 9 18-Norabietane Concentration Rank 4

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 18.63 | 5.92 ng/ul | 953681 | Phenanthrene-d10 | 17.15 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 18-Norabietane | 262 | C19H34 | 1000293-16-6 | 93 |
| 2 | 1,2-Benzooxazine,2-cyclohexyl-4-... | 262 | C16H26N2O | 037898-39-8 | 30 |
| 3 | 1H-Indene, 2-butyl-5-hexyloctahy... | 264 | C19H36 | 055044-33-2 | 27 |
| 4 | 7-Octadecyne, 2-methyl- | 264 | C19H36 | 035354-38-2 | 27 |
| 5 | Pyrazol-4-amine, 1-(4-fluorobenz... | 219 | C12H14FN3 | 1000272-83-8 | 22 |



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Data File : BM023058.D
Acq On : 08 Oct 2019 22:48
Operator : JU
Sample : K5057-09DL 2X
Misc :
ALS Vial : 25 Sample Multiplier: 1

**Instrument :** BNA_M
**ClientSampleId :** DBAJ5DL

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM092719MA.M
Quant Title : SVOA CALIBRATION

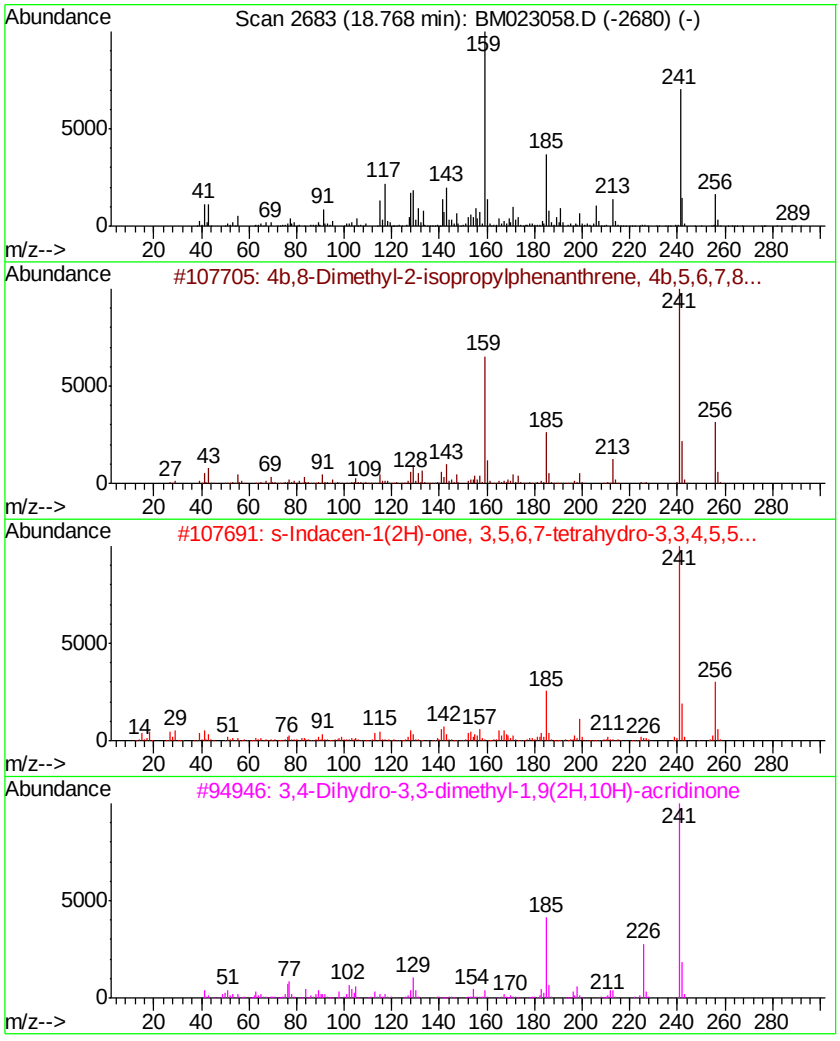
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

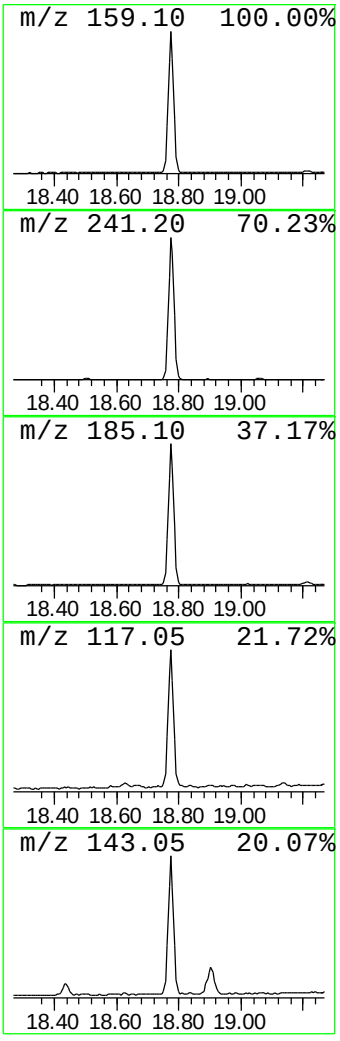
**********

Peak Number 10 4b,8-Dimethyl-2-isopropylph... Concentration Rank 2

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 18.77 | 9.36 ng/ul | 1506650 | Phenanthrene-d10 | 17.15 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 4b,8-Dimethyl-2-isopropylphenant... | 256 | C19H28 | 1000197-14-1 | 98 |
| 2 | s-Indacen-1(2H)-one, 3,5,6,7-tet... | 256 | C18H24O | 038754-94-8 | 47 |
| 3 | 3,4-Dihydro-3,3-dimethyl-1,9(2H,... | 241 | C15H15NO2 | 1000212-95-2 | 38 |
| 4 | Naphthalene, 6-ethyl-1,2,3,4-tet... | 256 | C19H28 | 301643-35-6 | 27 |
| 5 | Isoxazole, 5-methyl-4-phenyl- | 159 | C10H9NO | 023253-49-8 | 25 |



Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM100819\
Data File : BM023058.D
Acq On : 08 Oct 2019 22:48
Operator : JU
Sample : K5057-09DL 2X
Misc :
ALS Vial : 25 Sample Multiplier: 1

**Instrument :** BNA_M
**ClientSampleId :** DBAJ5DL

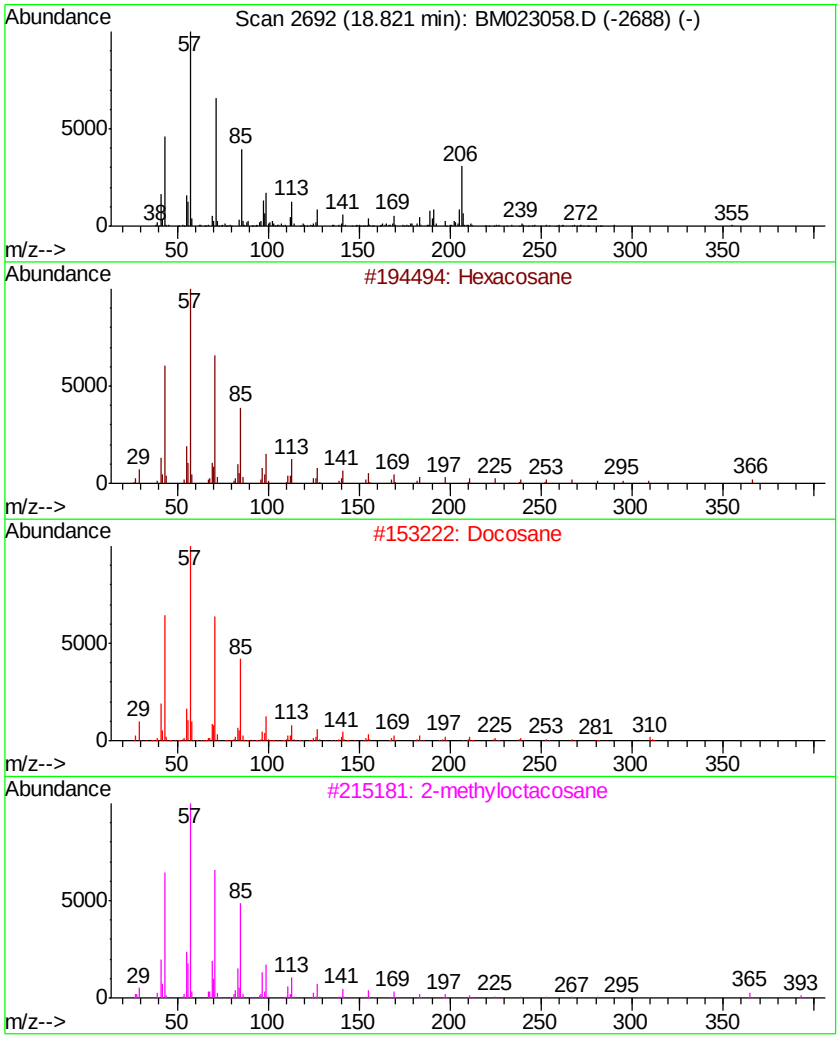
Quant Method : Z:\SVOASRV\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM092719MA.M
Quant Title : SVOA CALIBRATION

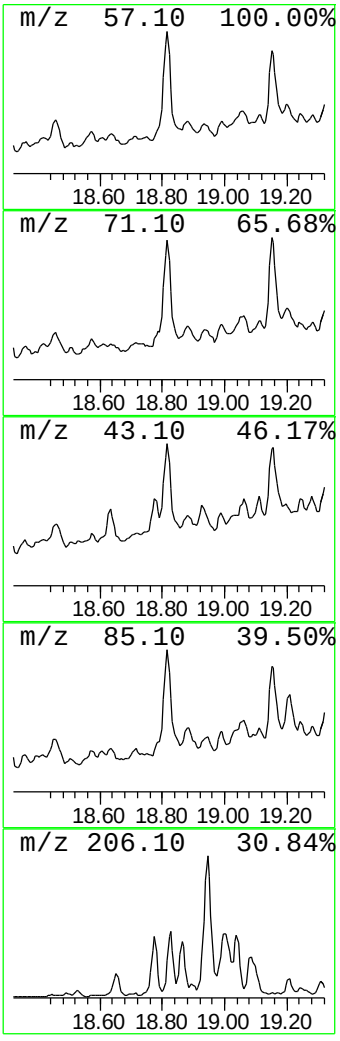
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

**********
Peak Number 11 (DEL) Alkane: Straight-Chai... Concentration Rank 11

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 18.82 | 4.04 ng/ul | 650700 | Phenanthrene-d10 | 17.15 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Hexacosane | 366 | C26H54 | 000630-01-3 | 87 |
| 2 | Docosane | 310 | C22H46 | 000629-97-0 | 80 |
| 3 | 2-methyloctacosane | 408 | C29H60 | 1000376-72-8 | 80 |
| 4 | Octadecane | 254 | C18H38 | 000593-45-3 | 80 |
| 5 | Pentacosane | 352 | C25H52 | 000629-99-2 | 72 |



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Data File : BM023058.D
Acq On : 08 Oct 2019 22:48
Operator : JU
Sample : K5057-09DL 2X
Misc :
ALS Vial : 25 Sample Multiplier: 1

**Instrument :** BNA_M
**ClientSampleId :** DBAJ5DL

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM092719MA.M
Quant Title : SVOA CALIBRATION

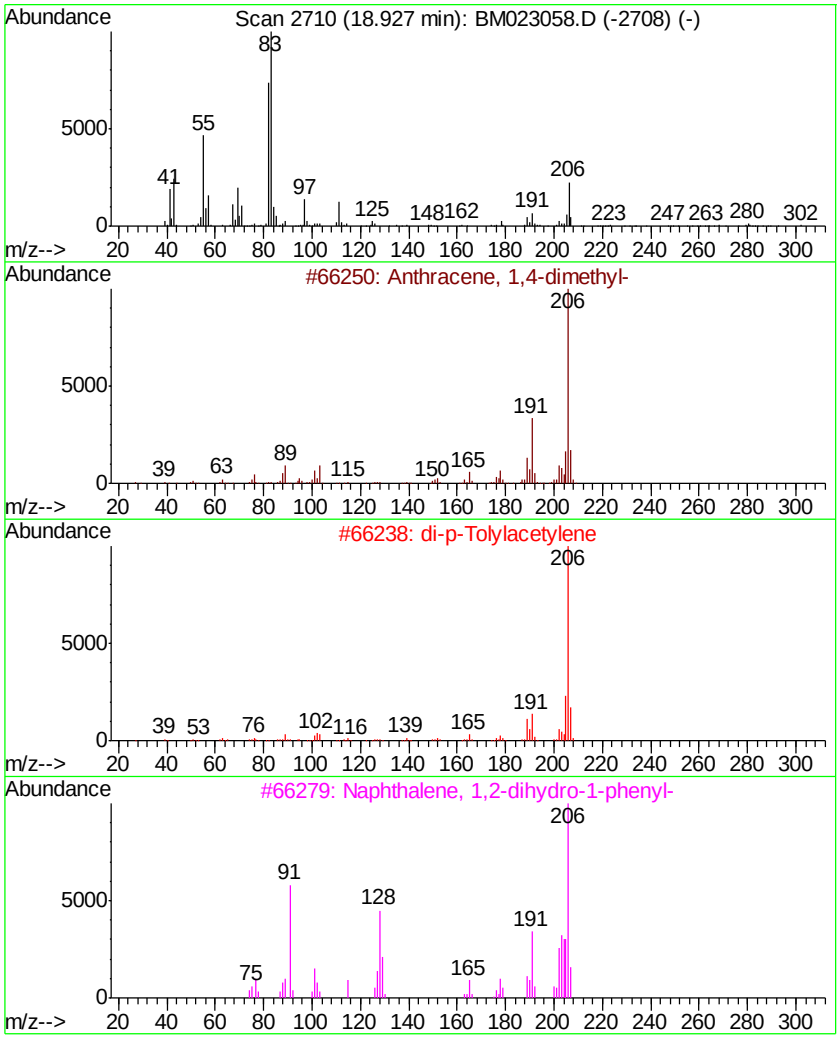
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

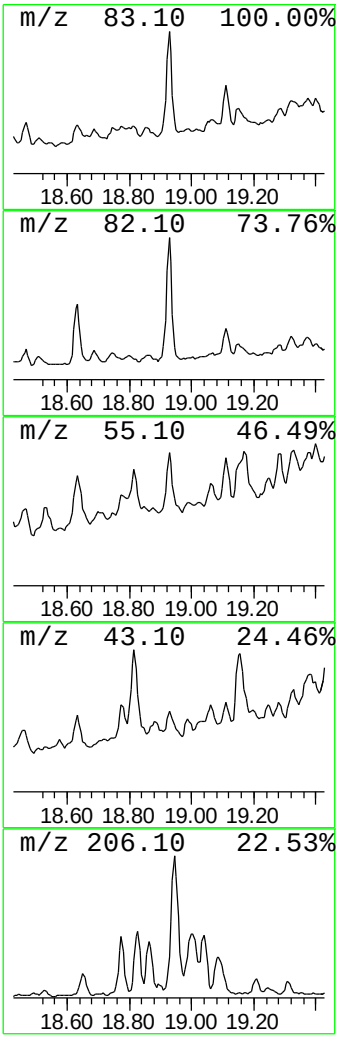
**********

Peak Number 12 Anthracene, 1,4-dimethyl- Concentration Rank 15

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 18.93 | 3.41 ng/ul | 548688 | Phenanthrene-d10 | 17.15 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Anthracene, 1,4-dimethyl- | 206 | C16H14 | 000781-92-0 | 60 |
| 2 | di-p-Tolylacetylene | 206 | C16H14 | 002789-88-0 | 55 |
| 3 | Naphthalene, 1,2-dihydro-1-phenyl- | 206 | C16H14 | 016606-46-5 | 47 |
| 4 | Phenanthrene, 1,7-dimethyl- | 206 | C16H14 | 000483-87-4 | 47 |
| 5 | 9,10-Dimethylanthracene | 206 | C16H14 | 000781-43-1 | 44 |



# Library Search Compound Report

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Data File : BM023058.D
Acq On : 08 Oct 2019 22:48
Operator : JU
Sample : K5057-09DL 2X
Misc :
ALS Vial : 25 Sample Multiplier: 1

**Instrument :** BNA_M
**ClientSampleId :** DBAJ5DL

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM092719MA.M
Quant Title : SVOA CALIBRATION

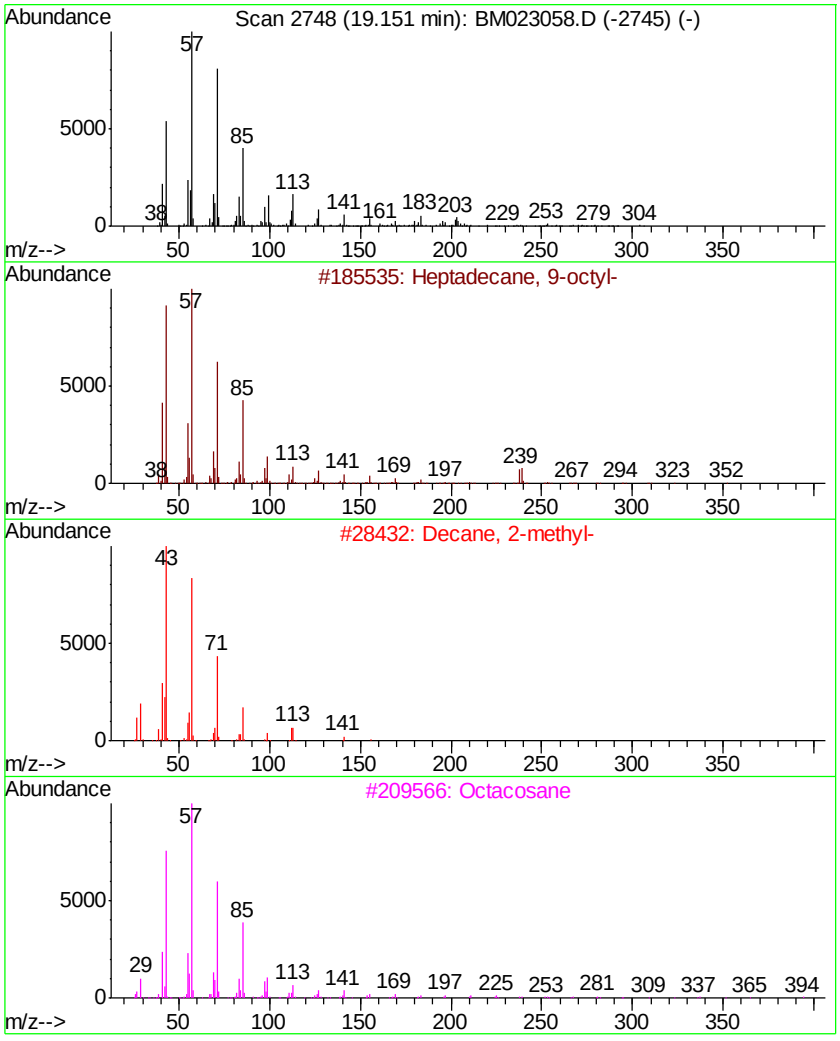
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

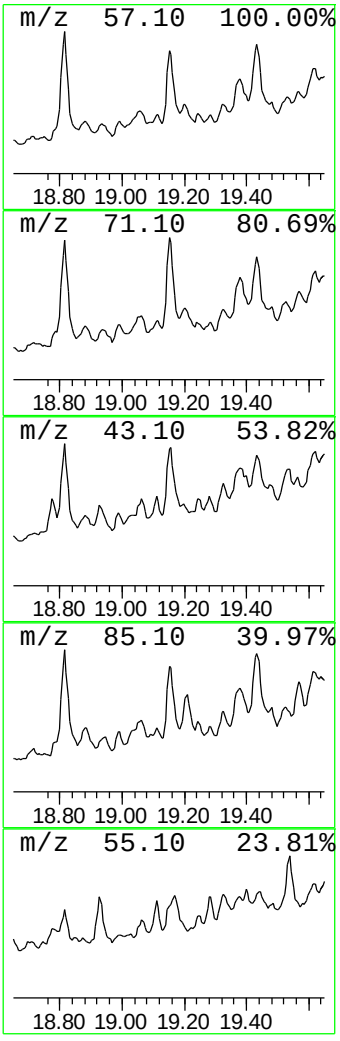
**********

Peak Number 13 (DEL) Alkane: Straight-Chai... Concentration Rank 6

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 19.15 | 5.24 ng/ul | 844407 | Phenanthrene-d10 | 17.15 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Heptadecane, 9-octyl- | 352 | C25H52 | 007225-64-1 | 90 |
| 2 | Decane, 2-methyl- | 156 | C11H24 | 006975-98-0 | 87 |
| 3 | Octacosane | 394 | C28H58 | 000630-02-4 | 87 |
| 4 | Heneicosane | 296 | C21H44 | 000629-94-7 | 87 |
| 5 | Octadecane, 1-iodo- | 380 | C18H37I | 000629-93-6 | 86 |



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Data File : BM023058.D
Acq On : 08 Oct 2019 22:48
Operator : JU
Sample : K5057-09DL 2X
Misc :
ALS Vial : 25 Sample Multiplier: 1

**Instrument :** BNA_M
**ClientSampleId :** DBAJ5DL

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM092719MA.M
Quant Title : SVOA CALIBRATION

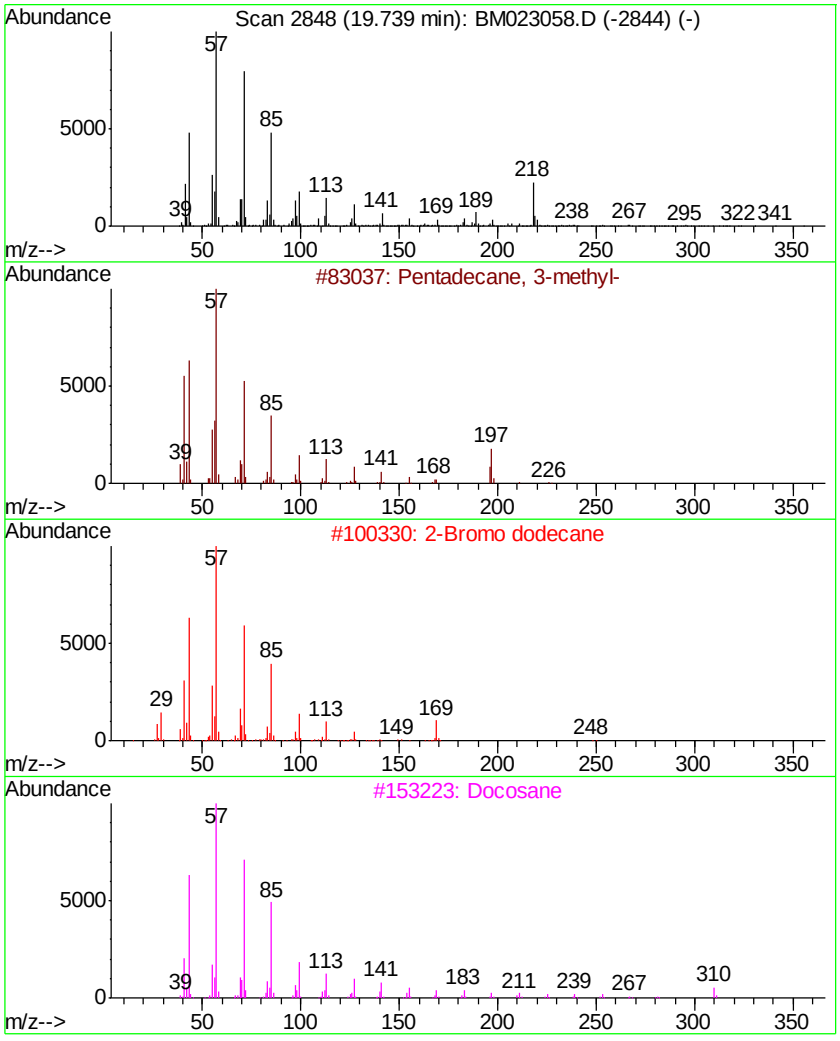
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

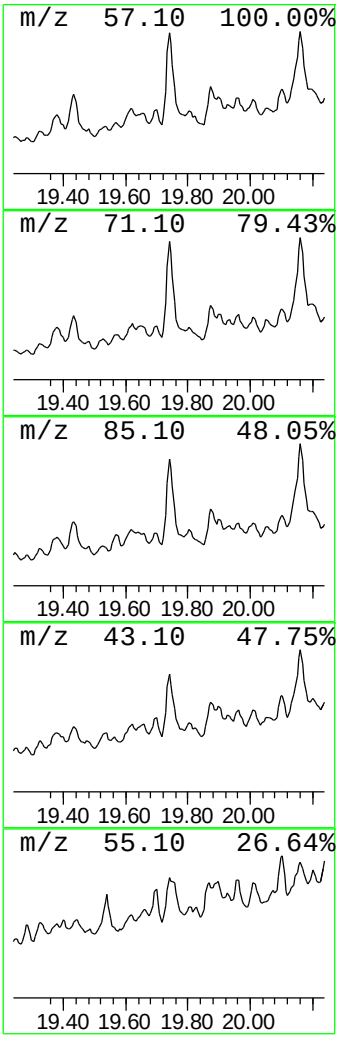
**********

Peak Number 14 (DEL) Alkane: Straight-Chai... Concentration Rank 9

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 19.74 | 4.67 ng/ul | 2186060 | Chrysene-d12 | 21.34 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Pentadecane, 3-methyl- | 226 | C16H34 | 002882-96-4 | 78 |
| 2 | 2-Bromo dodecane | 248 | C12H25Br | 013187-99-0 | 60 |
| 3 | Docosane | 310 | C22H46 | 000629-97-0 | 60 |
| 4 | Hentriacontane | 437 | C31H64 | 000630-04-6 | 58 |
| 5 | Benzo[b]naphtho[2,3-d]furan | 218 | C16H10O | 000243-42-5 | 53 |



Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM100819\
Data File : BM023058.D
Acq On : 08 Oct 2019 22:48
Operator : JU
Sample : K5057-09DL 2X
Misc :
ALS Vial : 25 Sample Multiplier: 1

**Instrument :** BNA_M
**ClientSampleId :** DBAJ5DL

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM092719MA.M
Quant Title : SVOA CALIBRATION

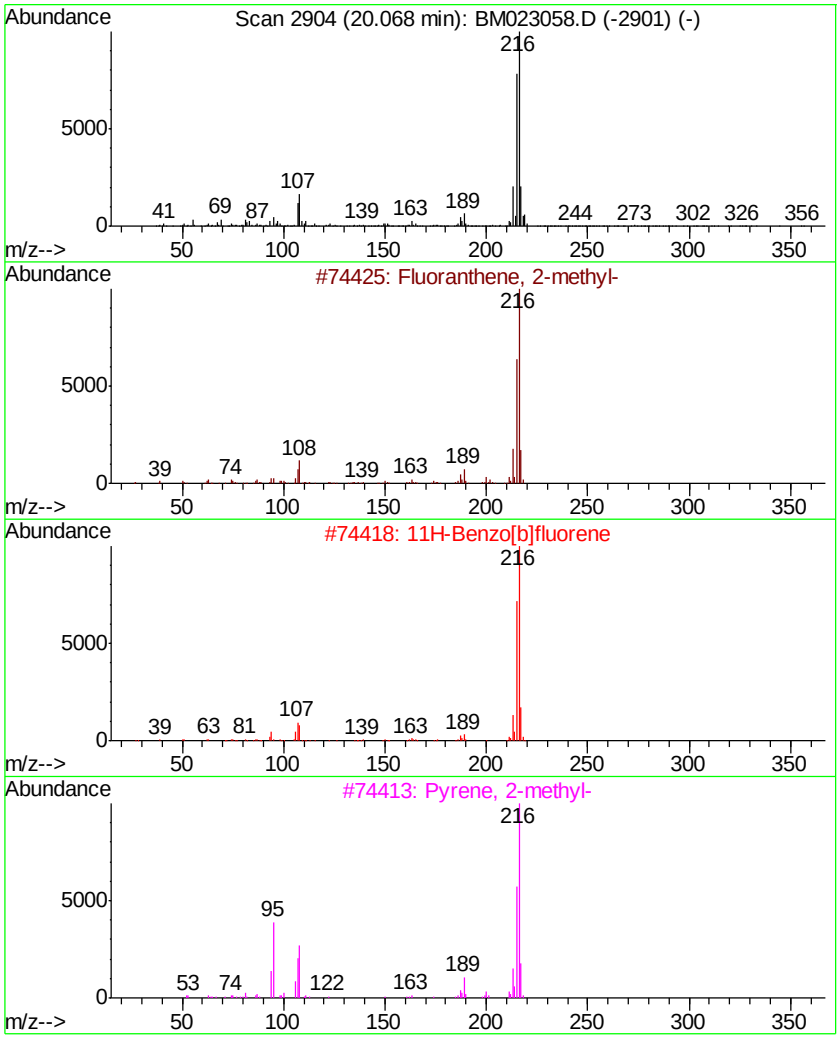
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

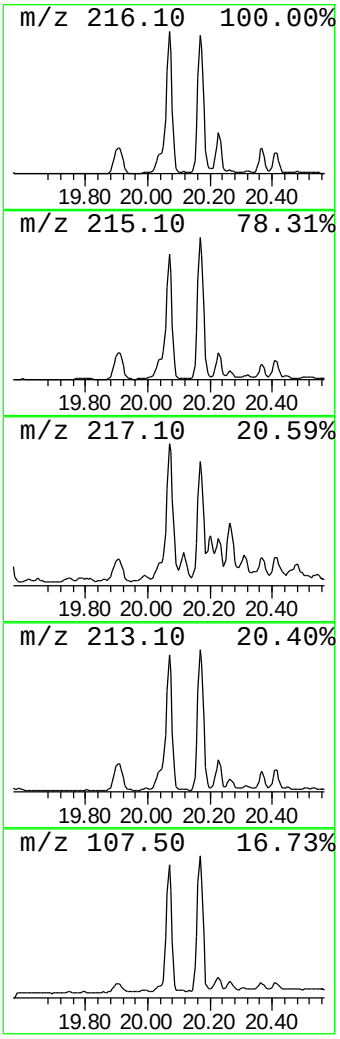
**********

Peak Number 16 Fluoranthene, 2-methyl- Concentration Rank 18

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 20.07 | 2.99 ng/ul | 1398060 | Chrysene-d12 | 21.34 |

| 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 | 93 |
| 3 | Pyrene, 2-methyl- | 216 | C17H12 | 003442-78-2 | 90 |
| 4 | 11H-Benzo[a]fluorene | 216 | C17H12 | 000238-84-6 | 83 |
| 5 | 11H-Benzo[a]fluorene | 216 | C17H12 | 000238-84-6 | 81 |



Library Search Compound Report

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Data File : BM023058.D
Acq On : 08 Oct 2019 22:48
Operator : JU
Sample : K5057-09DL 2X
Misc :
ALS Vial : 25 Sample Multiplier: 1

**Instrument :** BNA_M
**ClientSampleId :** DBAJ5DL

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM092719MA.M
Quant Title : SVOA CALIBRATION

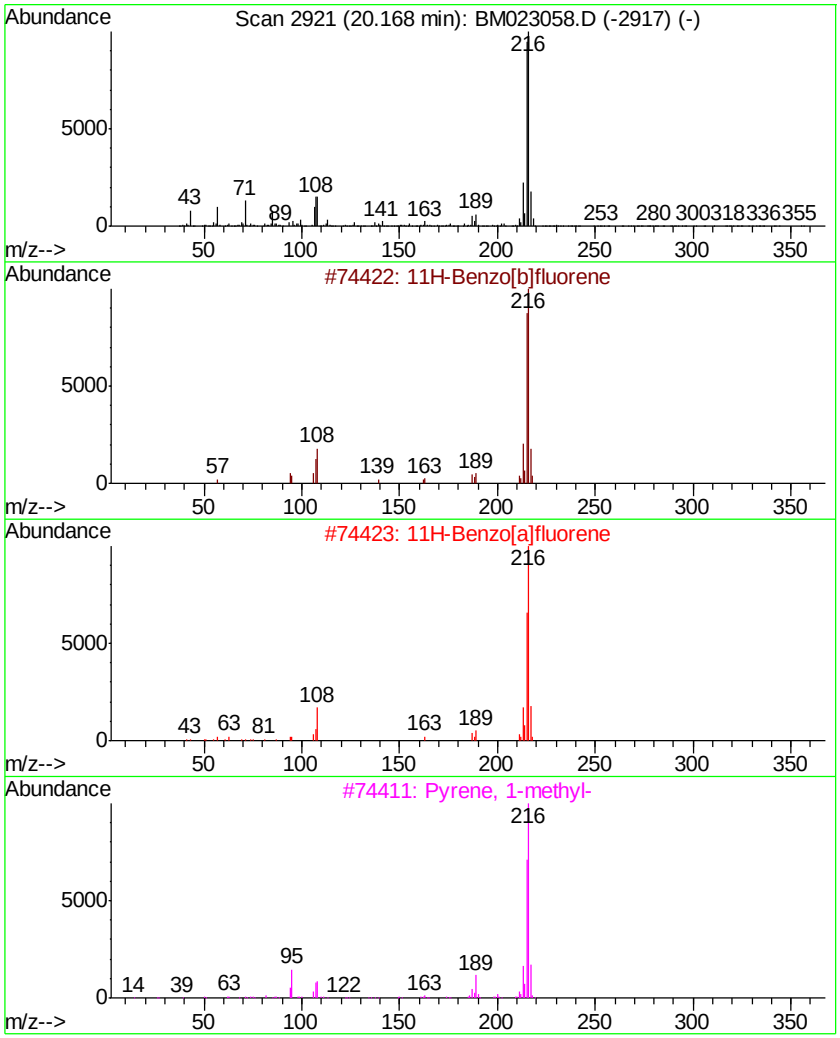
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

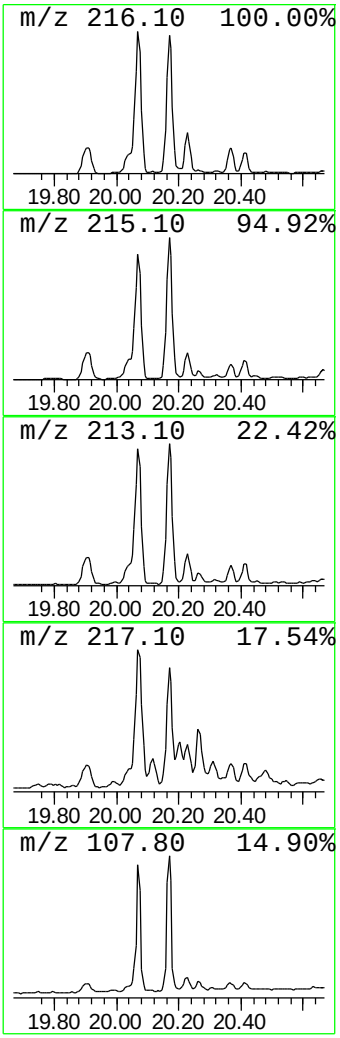
**********

Peak Number 17 11H-Benzo[b]fluorene Concentration Rank 10

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 20.17 | 4.62 ng/ul | 2163370 | Chrysene-d12 | 21.34 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 11H-Benzo[b]fluorene | 216 | C17H12 | 000243-17-4 | 91 |
| 2 | 11H-Benzo[a]fluorene | 216 | C17H12 | 000238-84-6 | 91 |
| 3 | Pyrene, 1-methyl- | 216 | C17H12 | 002381-21-7 | 87 |
| 4 | 11H-Benzo[b]fluorene | 216 | C17H12 | 000243-17-4 | 87 |
| 5 | 11H-Benzo[a]fluorene | 216 | C17H12 | 000238-84-6 | 81 |



Library Search Compound Report

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Data File : BM023058.D
Acq On : 08 Oct 2019 22:48
Operator : JU
Sample : K5057-09DL 2X
Misc :
ALS Vial : 25 Sample Multiplier: 1

**Instrument :** BNA_M
**ClientSampleId :** DBAJ5DL

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM092719MA.M
Quant Title : SVOA CALIBRATION

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

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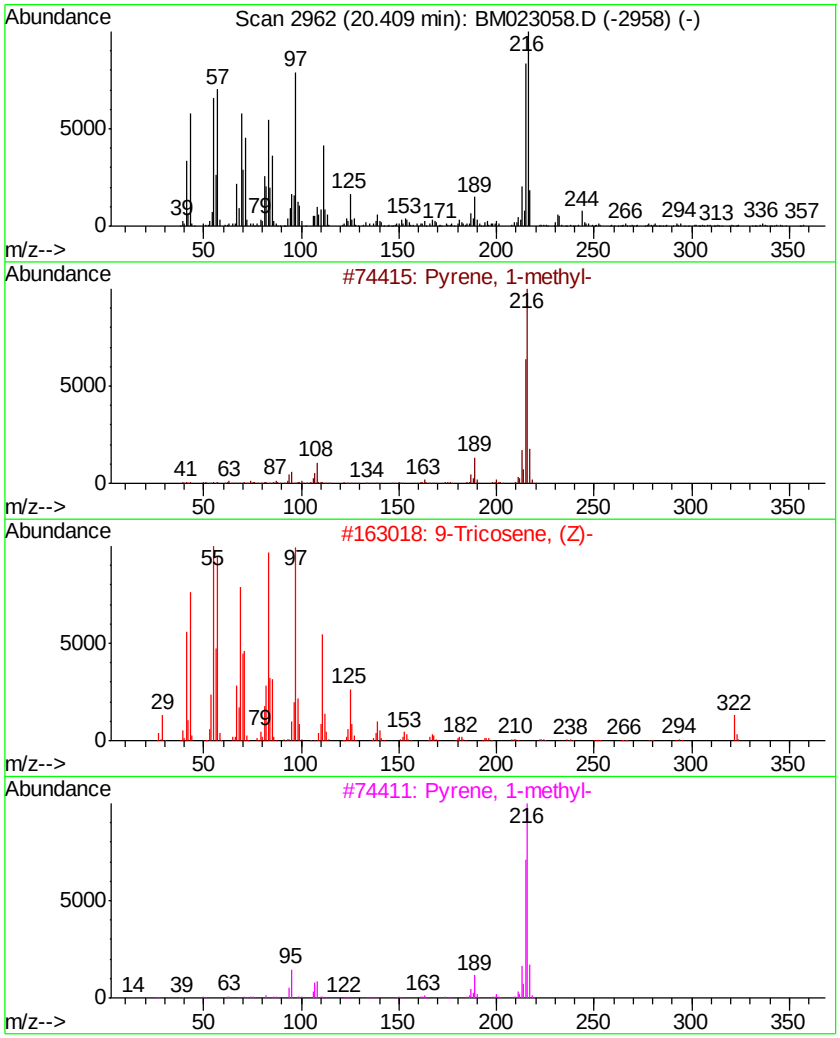
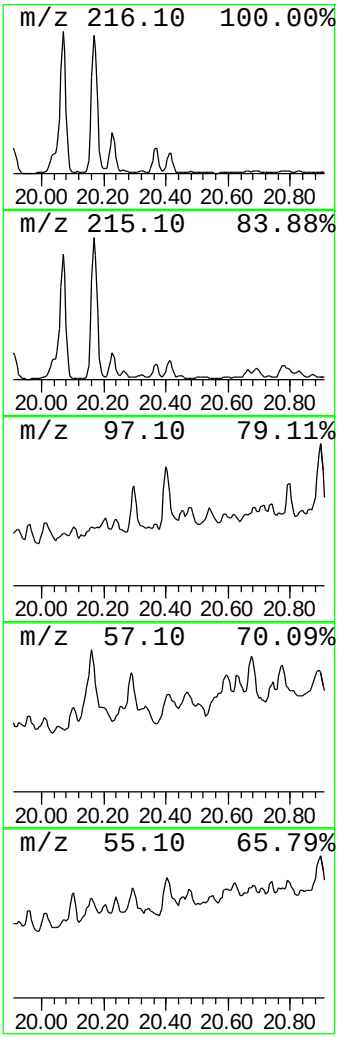
Peak Number 18 Pyrene, 1-methyl- Concentration Rank 19

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 20.41 | 2.76 ng/ul | 1289770 | Chrysene-d12 | 21.34 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Pyrene, 1-methyl- | 216 | C17H12 | 002381-21-7 | 93 |
| 2 | 9-Tricosene, (Z)- | 322 | C23H46 | 027519-02-4 | 89 |
| 3 | Pyrene, 1-methyl- | 216 | C17H12 | 002381-21-7 | 83 |
| 4 | Pyrene, 1-methyl- | 216 | C17H12 | 002381-21-7 | 76 |
| 5 | Cyclotetracosane | 336 | C24H48 | 000297-03-0 | 66 |



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Data File : BM023058.D
Acq On : 08 Oct 2019 22:48
Operator : JU
Sample : K5057-09DL 2X
Misc :
ALS Vial : 25 Sample Multiplier: 1

**Instrument :** BNA_M
**ClientSampleId :** DBAJ5DL

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM092719MA.M
Quant Title : SVOA CALIBRATION

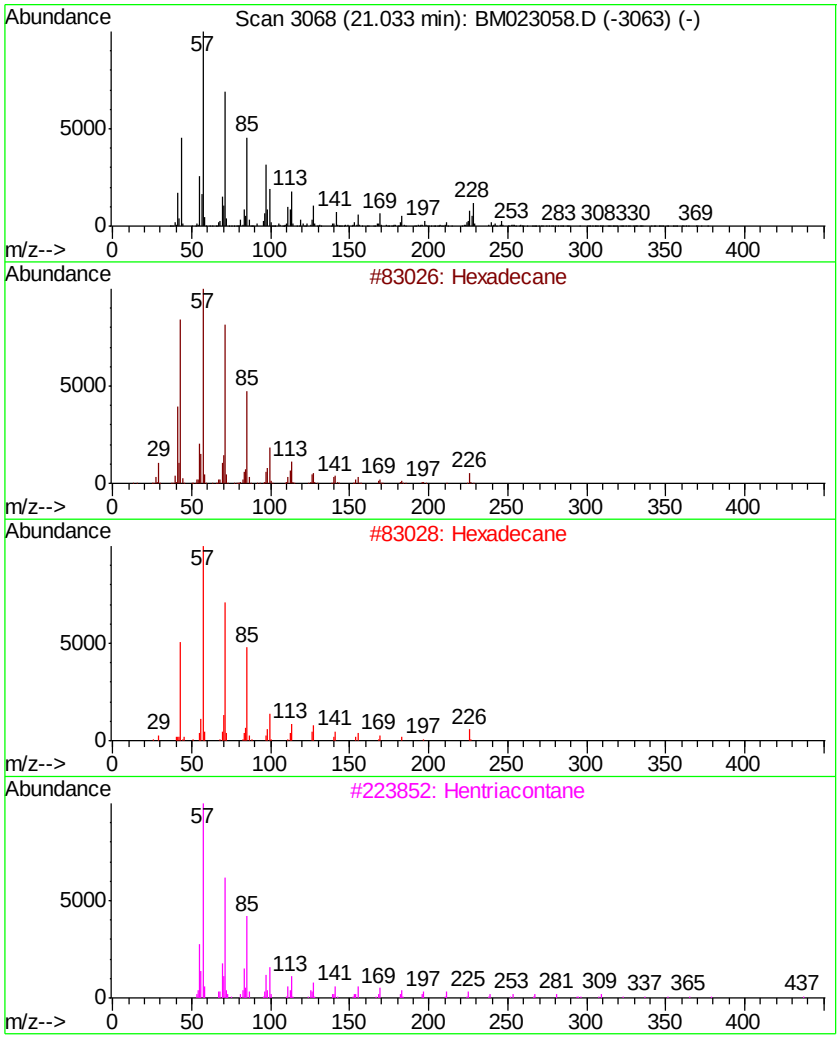
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

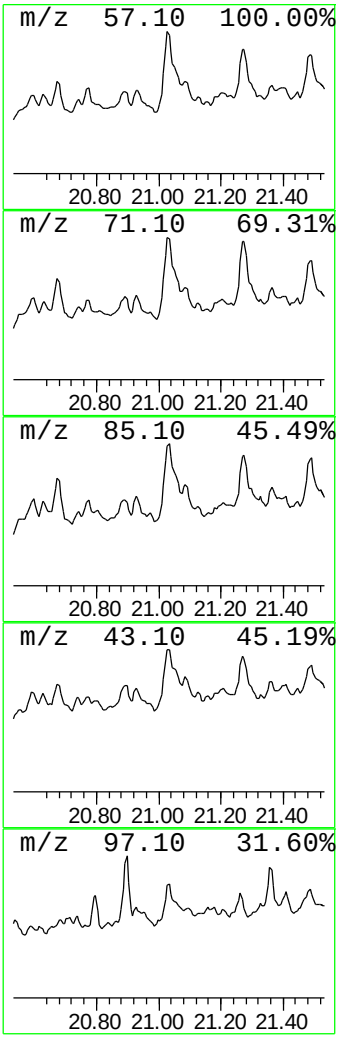
**********

Peak Number 19 (DEL) Alkane: Straight-Chai... Concentration Rank 8

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 21.03 | 4.71 ng/ul | 2204790 | Chrysene-d12 | 21.34 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Hexadecane | 226 | C16H34 | 000544-76-3 | 78 |
| 2 | Hexadecane | 226 | C16H34 | 000544-76-3 | 50 |
| 3 | Hentriacontane | 437 | C31H64 | 000630-04-6 | 45 |
| 4 | Hexadecane, 2,6,10,14-tetramethyl- | 282 | C20H42 | 000638-36-8 | 43 |
| 5 | Heptadecane, 3-methyl- | 254 | C18H38 | 006418-44-6 | 41 |



Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM100819\
Data File : BM023058.D
Acq On : 08 Oct 2019 22:48
Operator : JU
Sample : K5057-09DL 2X
Misc :
ALS Vial : 25 Sample Multiplier: 1

**Instrument :** BNA_M
**ClientSampleId :** DBAJ5DL

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM092719MA.M
Quant Title : SVOA CALIBRATION

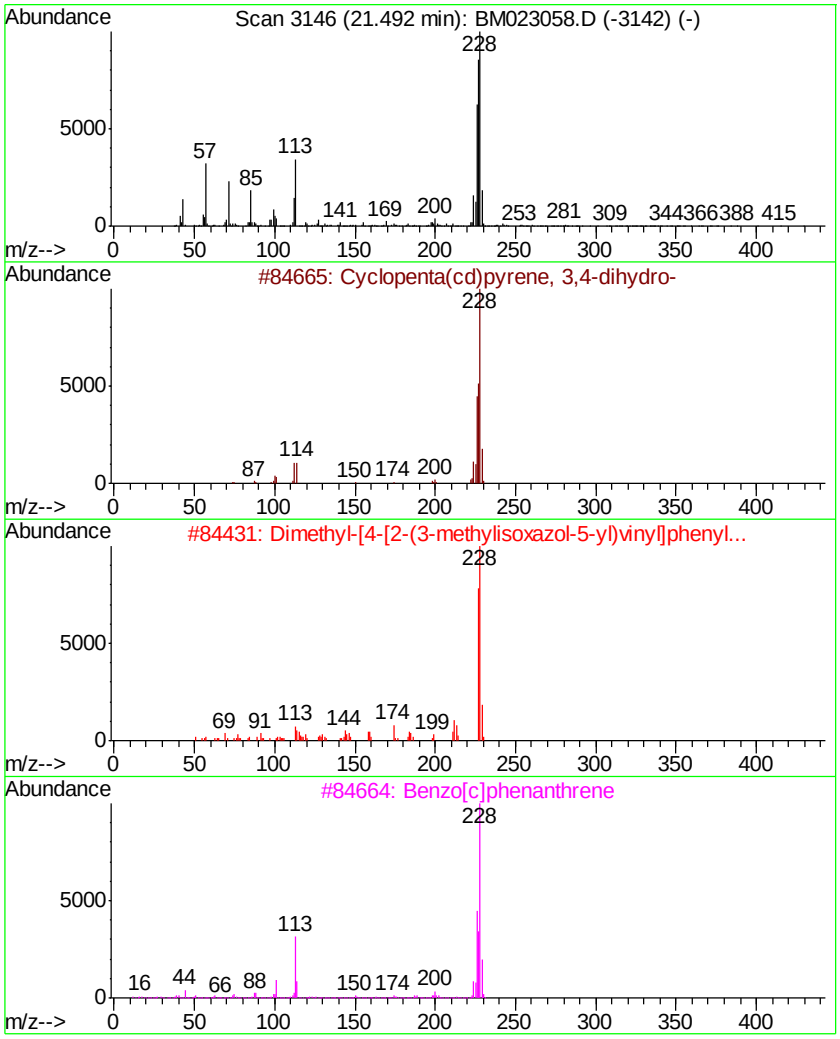
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

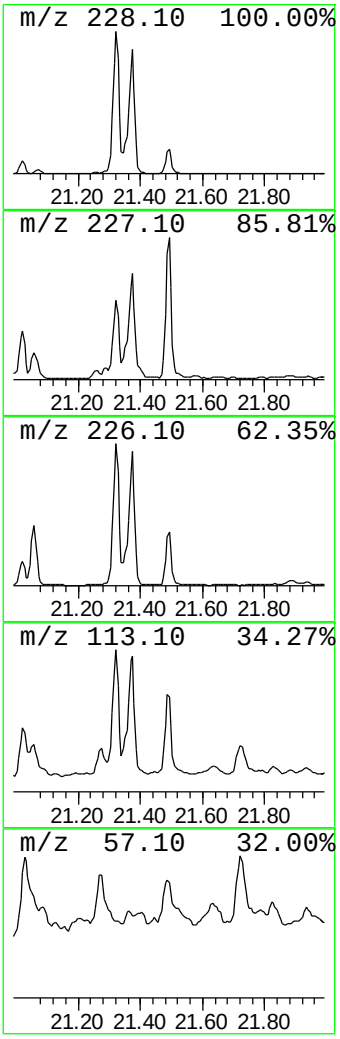
**********

Peak Number 20 Cyclopenta(cd)pyrene, 3,4-d... Concentration Rank 12

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 21.49 | 3.94 ng/ul | 1844940 | Chrysene-d12 | 21.34 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Cyclopenta(cd)pyrene, 3,4-dihydro- | 228 | C18H12 | 025732-74-5 | 55 |
| 2 | Dimethyl-[4-[2-(3-methylisoxazol... | 228 | C14H16N2O | 1000306-39-6 | 43 |
| 3 | Benzo[c]phenanthrene | 228 | C18H12 | 000195-19-7 | 43 |
| 4 | Isothiazol-5-amine, 4-bromo-3-ch... | 226 | C4H4BrClN2S | 1000272-59-9 | 43 |
| 5 | Pyrazole-4-carboxaldehyde-, 3,5-... | 228 | C14H16N2O | 1000272-54-8 | 37 |



Tentatively Identified Compound (LSC) summary

Data Path : Z:\SVOASRV\HPCHEM1\BNA_M\DATA\BM100819\
Data File : BM023058.D
Acq On : 08 Oct 2019 22:48
Operator : JU
Sample : K5057-09DL 2X
Misc :
ALS Vial : 25 Sample Multiplier: 1

**Instrument :** BNA_M
**ClientSampleId :** DBAJ5DL

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM092719MA.M
Quant Title : SVOA 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 |
| (DEL) Alkane: Str... | 16.16 | 3.3 | ng/ul | 532981 | 4 | 17.15 | 3220760 | 20.0 |
| Naphtho[1,2-b]thi... | 16.97 | 8.7 | ng/ul | 1395340 | 4 | 17.15 | 3220760 | 20.0 |
| 1H-Cyclopropa[l]p... | 18.03 | 3.6 | ng/ul | 578255 | 4 | 17.15 | 3220760 | 20.0 |
| 4H-Cyclopenta[def... | 18.22 | 10.2 | ng/ul | 1644110 | 4 | 17.15 | 3220760 | 20.0 |
| Phenanthrene, 1-m... | 18.26 | 3.7 | ng/ul | 595282 | 4 | 17.15 | 3220760 | 20.0 |
| Naphthalene, 2-ph... | 18.53 | 3.1 | ng/ul | 495650 | 4 | 17.15 | 3220760 | 20.0 |
| 18-Norabietane | 18.63 | 5.9 | ng/ul | 953681 | 4 | 17.15 | 3220760 | 20.0 |
| 4b,8-Dimethyl-2-i... | 18.77 | 9.4 | ng/ul | 1506650 | 4 | 17.15 | 3220760 | 20.0 |
| (DEL) Alkane: Str... | 18.82 | 4.0 | ng/ul | 650700 | 4 | 17.15 | 3220760 | 20.0 |
| Anthracene, 1,4-d... | 18.93 | 3.4 | ng/ul | 548688 | 4 | 17.15 | 3220760 | 20.0 |
| (DEL) Alkane: Str... | 19.15 | 5.2 | ng/ul | 844407 | 4 | 17.15 | 3220760 | 20.0 |
| (DEL) Alkane: Str... | 19.74 | 4.7 | ng/ul | 2186060 | 5 | 21.34 | 9359410 | 20.0 |
| Fluoranthene, 2-m... | 20.07 | 3.0 | ng/ul | 1398060 | 5 | 21.34 | 9359410 | 20.0 |
| 11H-Benzo[b]fluorene | 20.17 | 4.6 | ng/ul | 2163370 | 5 | 21.34 | 9359410 | 20.0 |
| Pyrene, 1-methyl- | 20.41 | 2.8 | ng/ul | 1289770 | 5 | 21.34 | 9359410 | 20.0 |
| (DEL) Alkane: Str... | 21.03 | 4.7 | ng/ul | 2204790 | 5 | 21.34 | 9359410 | 20.0 |
| Cyclopenta(cd)pyr... | 21.49 | 3.9 | ng/ul | 1844940 | 5 | 21.34 | 9359410 | 20.0 |