LSC Area Percent Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA G\DATA\BG081720\
Data File : BG046333.D
Acq On : 18 Aug 2020 18:31
Operator : CG/JU
Sample : L3636-06
Misc :
ALS Vial : 40 Sample Multiplier: 1

**Instrument :** BNA_G
**ClientSampleId :** BFMK2

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_G\METHODS\SOM-EPA-BG081320PAH.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 | 3.146 | 5 | 10 | 35 | rVB | 1241114 | 2241053 | 98.89% | 9.361% |
| 2 | 3.921 | 138 | 142 | 148 | rBV2 | 17206 | 26272 | 1.16% | 0.110% |
| 3 | 5.055 | 327 | 335 | 346 | rBV | 11853 | 21117 | 0.93% | 0.088% |
| 4 | 7.106 | 677 | 684 | 695 | rBV2 | 50016 | 95365 | 4.21% | 0.398% |
| 5 | 7.265 | 705 | 711 | 725 | rVB | 51439 | 91920 | 4.06% | 0.384% |
| 6 | 7.476 | 739 | 747 | 757 | rBV2 | 58385 | 105187 | 4.64% | 0.439% |
| 7 | 7.940 | 816 | 826 | 835 | rBV | 312848 | 530498 | 23.41% | 2.216% |
| 8 | 8.645 | 938 | 946 | 956 | rBV2 | 51683 | 100656 | 4.44% | 0.420% |
| 9 | 9.092 | 1015 | 1022 | 1030 | rBV | 58843 | 109646 | 4.84% | 0.458% |
| 10 | 9.814 | 1139 | 1145 | 1153 | rBV | 47129 | 85023 | 3.75% | 0.355% |
| 11 | 10.361 | 1231 | 1238 | 1248 | rBV | 63650 | 120203 | 5.30% | 0.502% |
| 12 | 10.737 | 1293 | 1302 | 1308 | rBV | 435153 | 784057 | 34.60% | 3.275% |
| 13 | 10.784 | 1308 | 1310 | 1317 | rVB2 | 25227 | 38941 | 1.72% | 0.163% |
| 14 | 10.866 | 1317 | 1324 | 1333 | rBV | 41986 | 86369 | 3.81% | 0.361% |
| 15 | 12.394 | 1579 | 1584 | 1593 | rVB | 18994 | 33802 | 1.49% | 0.141% |
| 16 | 12.611 | 1612 | 1621 | 1630 | rBV | 17366 | 30435 | 1.34% | 0.127% |
| 17 | 13.892 | 1834 | 1839 | 1843 | rVV | 18187 | 29065 | 1.28% | 0.121% |
| 18 | 13.968 | 1843 | 1852 | 1857 | rVV | 155339 | 247309 | 10.91% | 1.033% |
| 19 | 14.015 | 1857 | 1860 | 1866 | rVB | 39175 | 53574 | 2.36% | 0.224% |
| 20 | 14.256 | 1894 | 1901 | 1912 | rBV | 160351 | 275964 | 12.18% | 1.153% |
| 21 | 14.568 | 1942 | 1954 | 1960 | rBV | 697673 | 1097070 | 48.41% | 4.582% |
| 22 | 14.632 | 1960 | 1965 | 1972 | rVV | 67733 | 107852 | 4.76% | 0.450% |
| 23 | 14.767 | 1984 | 1988 | 1999 | rBV4 | 17064 | 41829 | 1.85% | 0.175% |
| 24 | 14.967 | 2017 | 2022 | 2030 | rVB | 55121 | 89829 | 3.96% | 0.375% |
| 25 | 15.555 | 2115 | 2122 | 2128 | rVV | 231094 | 362746 | 16.01% | 1.515% |
| 26 | 15.614 | 2128 | 2132 | 2138 | rVV | 83568 | 128079 | 5.65% | 0.535% |
| 27 | 15.672 | 2138 | 2142 | 2147 | rVV2 | 29960 | 50665 | 2.24% | 0.212% |
| 28 | 15.778 | 2156 | 2160 | 2165 | rVV5 | 13851 | 21553 | 0.95% | 0.090% |
| 29 | 15.860 | 2170 | 2174 | 2178 | rVV5 | 15688 | 24410 | 1.08% | 0.102% |
| 30 | 15.907 | 2178 | 2182 | 2189 | rVB | 32784 | 49894 | 2.20% | 0.208% |
| 31 | 16.060 | 2202 | 2208 | 2216 | rVB | 35118 | 73075 | 3.22% | 0.305% |
| 32 | 16.589 | 2291 | 2298 | 2300 | rBV5 | 16621 | 29595 | 1.31% | 0.124% |
| 33 | 16.618 | 2300 | 2303 | 2307 | rVV4 | 20796 | 34453 | 1.52% | 0.144% |
| 34 | 16.665 | 2307 | 2311 | 2317 | rVB4 | 11634 | 20018 | 0.88% | 0.084% |

LSC Area Percent Report

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Data File : BG046333.D
Acq On : 18 Aug 2020 18:31
Operator : CG/JU
Sample : L3636-06
Misc :
ALS Vial : 40 Sample Multiplier: 1

**Instrument :** BNA_G
**ClientSampleId :** BFMK2

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_G\METHODS\SOM-EPA-BG081320PAH.M
Title : SVOA CALIBRATION

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 35 | 16.847 | 2333 | 2342 | 2345 | rBV3 | 22581 | 43331 | 1.91% | 0.181% |
| 36 | 16.889 | 2345 | 2349 | 2352 | rVV3 | 18684 | 28643 | 1.26% | 0.120% |
| 37 | 16.959 | 2356 | 2361 | 2370 | rVB | 50778 | 85309 | 3.76% | 0.356% |
| 38 | 17.041 | 2370 | 2375 | 2383 | rBV6 | 26442 | 67405 | 2.97% | 0.282% |
| 39 | 17.129 | 2386 | 2390 | 2395 | rVB | 35442 | 51892 | 2.29% | 0.217% |
| 40 | 17.312 | 2414 | 2421 | 2424 | rVV | 830705 | 1316262 | 58.08% | 5.498% |
| 41 | 17.353 | 2424 | 2428 | 2433 | rVV | 743713 | 1094989 | 48.32% | 4.574% |
| 42 | 17.406 | 2433 | 2437 | 2440 | rVV2 | 254930 | 384628 | 16.97% | 1.607% |
| 43 | 17.441 | 2440 | 2443 | 2449 | rVV | 176352 | 244197 | 10.78% | 1.020% |
| 44 | 17.500 | 2449 | 2453 | 2459 | rVB4 | 14513 | 24353 | 1.07% | 0.102% |
| 45 | 17.705 | 2478 | 2488 | 2493 | rBV2 | 73299 | 137817 | 6.08% | 0.576% |
| 46 | 17.829 | 2505 | 2509 | 2513 | rBV | 15105 | 22925 | 1.01% | 0.096% |
| 47 | 18.105 | 2552 | 2556 | 2560 | rVB3 | 12414 | 19048 | 0.84% | 0.080% |
| 48 | 18.187 | 2560 | 2570 | 2574 | rBV | 121992 | 202098 | 8.92% | 0.844% |
| 49 | 18.234 | 2574 | 2578 | 2584 | rVV | 172783 | 249923 | 11.03% | 1.044% |
| 50 | 18.310 | 2587 | 2591 | 2597 | rVV | 61187 | 94907 | 4.19% | 0.396% |
| 51 | 18.381 | 2597 | 2603 | 2607 | rVV2 | 134013 | 264808 | 11.68% | 1.106% |
| 52 | 18.416 | 2607 | 2609 | 2615 | rVV2 | 79491 | 93387 | 4.12% | 0.390% |
| 53 | 18.487 | 2617 | 2621 | 2624 | rVV4 | 12384 | 19099 | 0.84% | 0.080% |
| 54 | 18.528 | 2625 | 2628 | 2633 | rVV3 | 16768 | 25615 | 1.13% | 0.107% |
| 55 | 18.681 | 2649 | 2654 | 2657 | rVV | 85433 | 123486 | 5.45% | 0.516% |
| 56 | 18.716 | 2657 | 2660 | 2667 | rVV | 74962 | 115616 | 5.10% | 0.483% |
| 57 | 18.804 | 2673 | 2675 | 2682 | rVB5 | 11927 | 20316 | 0.90% | 0.085% |
| 58 | 18.927 | 2692 | 2696 | 2700 | rVV2 | 32616 | 43407 | 1.92% | 0.181% |
| 59 | 18.980 | 2701 | 2705 | 2708 | rBV2 | 19407 | 23762 | 1.05% | 0.099% |
| 60 | 19.015 | 2708 | 2711 | 2716 | rVB2 | 31911 | 44748 | 1.97% | 0.187% |
| 61 | 19.098 | 2716 | 2725 | 2729 | rBV | 73171 | 133293 | 5.88% | 0.557% |
| 62 | 19.162 | 2730 | 2736 | 2739 | rBV4 | 31376 | 54320 | 2.40% | 0.227% |
| 63 | 19.239 | 2744 | 2749 | 2757 | rVB2 | 57436 | 106681 | 4.71% | 0.446% |
| 64 | 19.362 | 2758 | 2770 | 2776 | rBV | 849100 | 1227683 | 54.17% | 5.128% |
| 65 | 19.456 | 2783 | 2786 | 2791 | rVB4 | 28879 | 39313 | 1.73% | 0.164% |
| 66 | 19.550 | 2798 | 2802 | 2807 | rBV3 | 27284 | 45477 | 2.01% | 0.190% |
| 67 | 19.603 | 2807 | 2811 | 2821 | rVB4 | 30108 | 66363 | 2.93% | 0.277% |
| 68 | 19.691 | 2821 | 2826 | 2828 | rBV2 | 490590 | 696235 | 30.72% | 2.908% |
| 69 | 19.721 | 2828 | 2831 | 2839 | rVB | 614231 | 906667 | 40.01% | 3.787% |
| 70 | 19.791 | 2839 | 2843 | 2851 | rVB2 | 62840 | 116651 | 5.15% | 0.487% |
| 71 | 19.897 | 2851 | 2861 | 2867 | rBV | 74342 | 159047 | 7.02% | 0.664% |

LSC Area Percent Report

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Acq On : 18 Aug 2020 18:31
Operator : CG/JU
Sample : L3636-06
Misc :
ALS Vial : 40 Sample Multiplier: 1

**Instrument :** BNA_G
**ClientSampleId :** BFMK2

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_G\METHODS\SOM-EPA-BG081320PAH.M
Title : SVOA CALIBRATION

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 72 | 19.956 | 2868 | 2871 | 2877 | rVB3 | 30446 | 43050 | 1.90% | 0.180% |
| 73 | 20.055 | 2880 | 2888 | 2894 | rBV3 | 80108 | 228024 | 10.06% | 0.952% |
| 74 | 20.179 | 2904 | 2909 | 2911 | rBV3 | 59189 | 93753 | 4.14% | 0.392% |
| 75 | 20.214 | 2911 | 2915 | 2921 | rVB2 | 130359 | 191472 | 8.45% | 0.800% |
| 76 | 20.314 | 2928 | 2932 | 2935 | rBV | 70643 | 102857 | 4.54% | 0.430% |
| 77 | 20.373 | 2936 | 2942 | 2946 | rVV3 | 99083 | 191201 | 8.44% | 0.799% |
| 78 | 20.414 | 2946 | 2949 | 2952 | rVB3 | 29939 | 36997 | 1.63% | 0.155% |
| 79 | 20.449 | 2952 | 2955 | 2961 | rBV2 | 31561 | 44183 | 1.95% | 0.185% |
| 80 | 20.508 | 2962 | 2965 | 2970 | rBV | 48206 | 73902 | 3.26% | 0.309% |
| 81 | 20.561 | 2970 | 2974 | 2979 | rVV3 | 70621 | 115870 | 5.11% | 0.484% |
| 82 | 20.766 | 3006 | 3009 | 3012 | rBV5 | 20978 | 33246 | 1.47% | 0.139% |
| 83 | 20.807 | 3012 | 3016 | 3018 | rVV4 | 22202 | 35198 | 1.55% | 0.147% |
| 84 | 20.966 | 3039 | 3043 | 3050 | rVB | 97061 | 146190 | 6.45% | 0.611% |
| 85 | 21.042 | 3054 | 3056 | 3063 | rVB2 | 38217 | 55604 | 2.45% | 0.232% |
| 86 | 21.131 | 3067 | 3071 | 3072 | rBV2 | 51684 | 69302 | 3.06% | 0.289% |
| 87 | 21.183 | 3077 | 3080 | 3083 | rVV | 77950 | 117994 | 5.21% | 0.493% |
| 88 | 21.225 | 3083 | 3087 | 3094 | rVV4 | 146344 | 334822 | 14.77% | 1.399% |
| 89 | 21.289 | 3094 | 3098 | 3107 | rVB | 109133 | 198671 | 8.77% | 0.830% |
| 90 | 21.554 | 3134 | 3143 | 3148 | rBV3 | 1057016 | 2266313 | 100.00% | 9.466% |
| 91 | 21.601 | 3148 | 3151 | 3160 | rVB | 329919 | 511705 | 22.58% | 2.137% |
| 92 | 21.947 | 3206 | 3210 | 3216 | rBV2 | 39554 | 75161 | 3.32% | 0.314% |
| 93 | 22.200 | 3249 | 3253 | 3256 | rBV3 | 22752 | 39470 | 1.74% | 0.165% |
| 94 | 22.265 | 3261 | 3264 | 3271 | rVB | 77210 | 131200 | 5.79% | 0.548% |
| 95 | 23.681 | 3497 | 3505 | 3513 | rBV2 | 211693 | 714535 | 31.53% | 2.985% |
| 96 | 23.804 | 3522 | 3526 | 3530 | rBV2 | 50765 | 80516 | 3.55% | 0.336% |
| 97 | 24.368 | 3617 | 3622 | 3628 | rBV2 | 71674 | 164860 | 7.27% | 0.689% |
| 98 | 24.444 | 3630 | 3635 | 3640 | rVV | 117601 | 251766 | 11.11% | 1.052% |
| 99 | 24.509 | 3641 | 3646 | 3658 | rVB | 152313 | 413078 | 18.23% | 1.725% |
| 100 | 24.662 | 3662 | 3672 | 3680 | rBV2 | 557334 | 1549119 | 68.35% | 6.470% |

Sum of corrected areas: 23941284

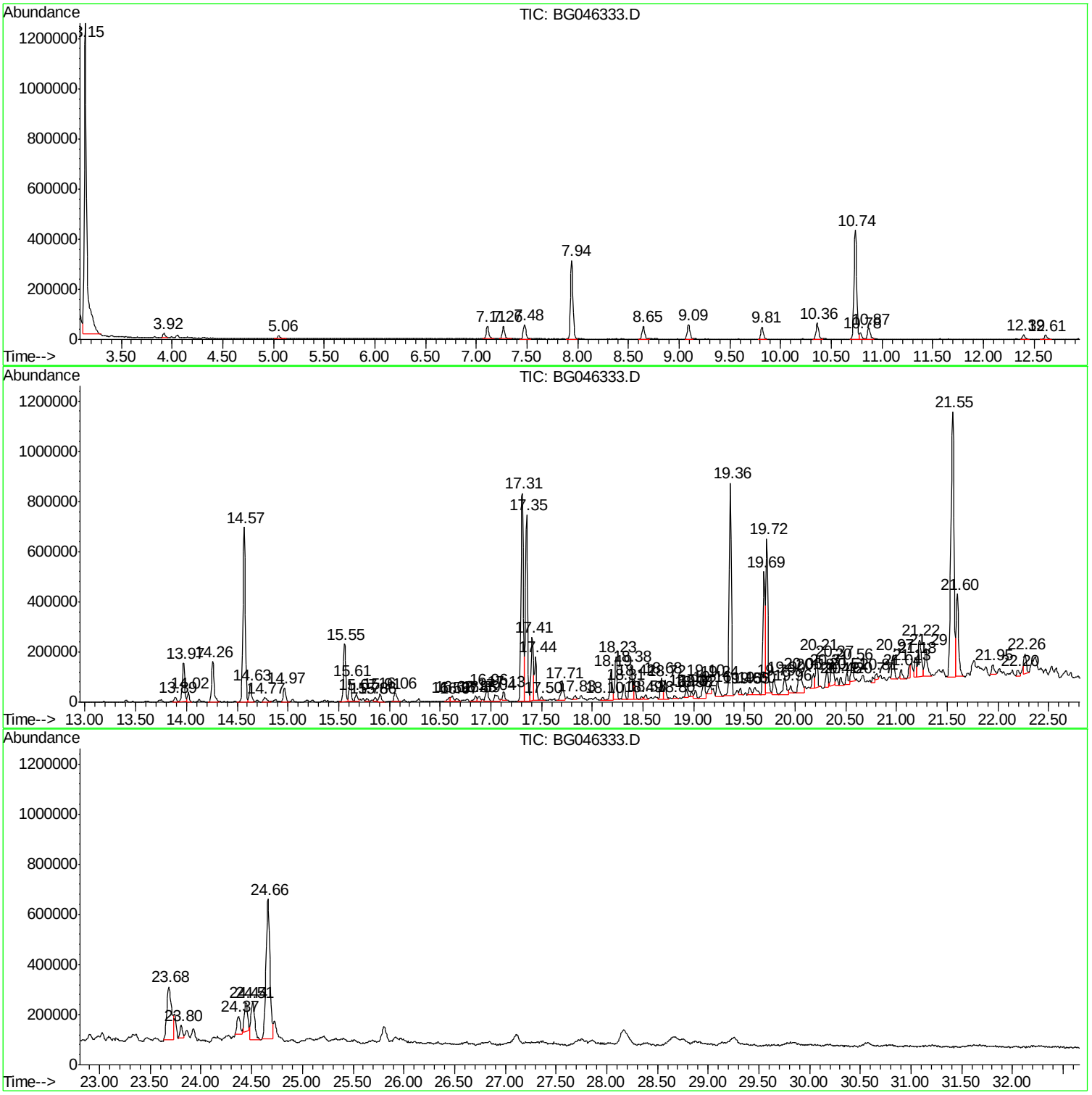
LSC Report - Integrated Chromatogram

Data Path : Z:\SVOASRV\HPCHEM1\BNA G\DATA\BG081720\
Data File : BG046333.D
Acq On : 18 Aug 2020 18:31
Operator : CG/JU
Sample : L3636-06
Misc :
ALS Vial : 40 Sample Multiplier: 1

**Instrument :** BNA_G
**ClientSampleId :** BFMK2

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_G\METHODS\SOM-EPA-BG081320PAH.M
Quant Title : SVOA CALIBRATION

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



Data Path : Z:\SVOASRV\HPCHEM1\BNA G\DATA\BG081720\
Data File : BG046333.D
Acq On : 18 Aug 2020 18:31
Operator : CG/JU
Sample : L3636-06
Misc :
ALS Vial : 40 Sample Multiplier: 1

**Instrument :** BNA_G
**ClientSampleId :** BFMK2

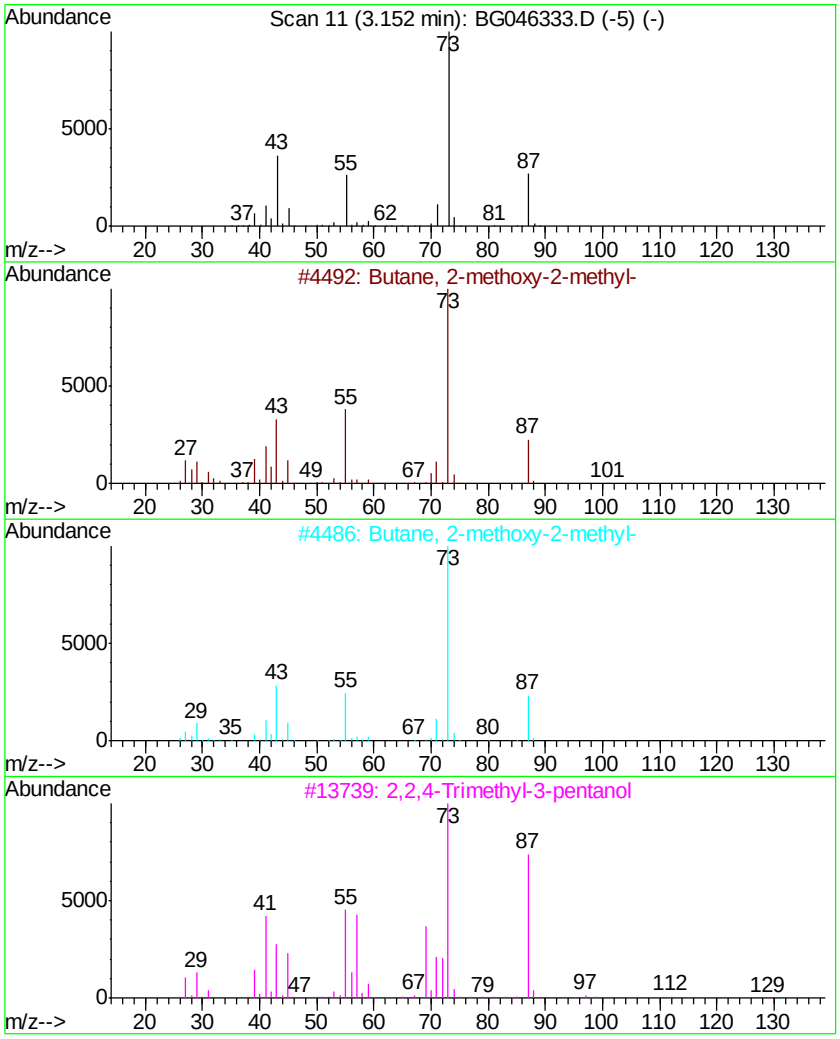
Quant Method : Z:\SVOASRV\HPCHEM1\BNA_G\METHODS\SOM-EPA-BG081320PAH.M
Quant Title : SVOA CALIBRATION

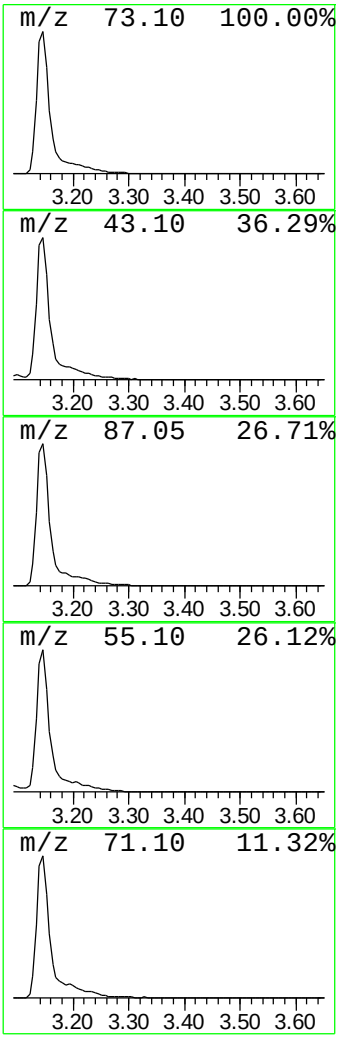
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

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

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 3.15 | 84.49 ng/ul | 2241050 | 1,4-Dichlorobenzene-d4 | 7.94 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Butane, 2-methoxy-2-methyl- | 102 | C6H14O | 000994-05-8 | 83 |
| 2 | Butane, 2-methoxy-2-methyl- | 102 | C6H14O | 000994-05-8 | 78 |
| 3 | 2,2,4-Trimethyl-3-pentanol | 130 | C8H18O | 005162-48-1 | 40 |
| 4 | 2,2,4-Trimethyl-3-pentanol | 130 | C8H18O | 005162-48-1 | 40 |
| 5 | 1,3-Dioxolane, 2-methyl- | 88 | C4H8O2 | 000497-26-7 | 25 |



Data Path : Z:\SVOASRV\HPCHEM1\BNA G\DATA\BG081720\
Data File : BG046333.D
Acq On : 18 Aug 2020 18:31
Operator : CG/JU
Sample : L3636-06
Misc :
ALS Vial : 40 Sample Multiplier: 1

**Instrument :** BNA_G
**ClientSampleId :** BFMK2

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_G\METHODS\SOM-EPA-BG081320PAH.M
Quant Title : SVOA CALIBRATION

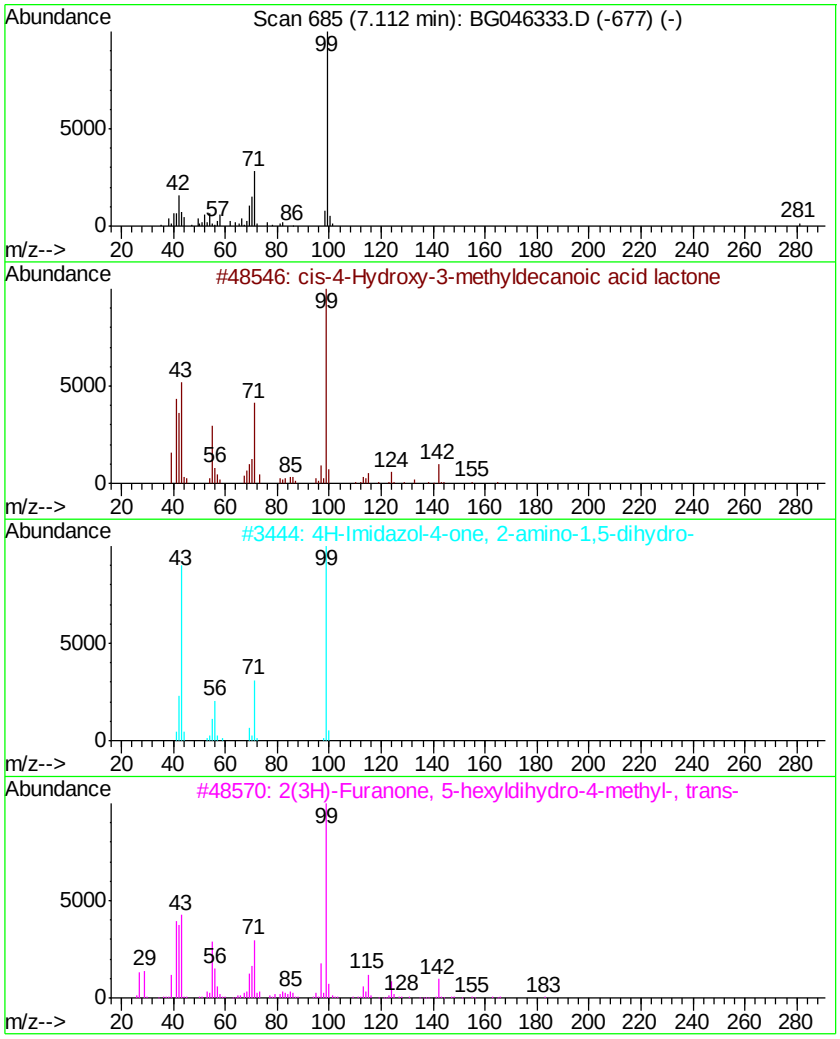
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

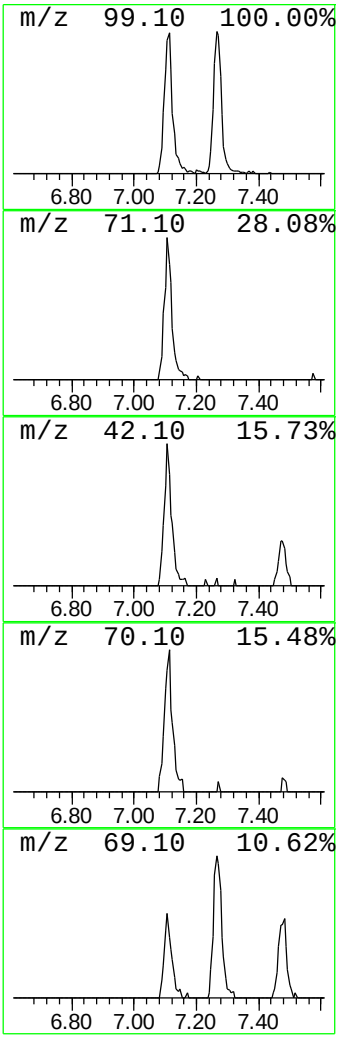
**********

Peak Number 2 cis-4-Hydroxy-3-methyldecan... Concentration Rank 8

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 7.11 | 3.60 ng/ul | 95365 | 1,4-Dichlorobenzene-d4 | 7.94 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | cis-4-Hydroxy-3-methyldecanoic a... | 184 | C11H20O2 | 147254-32-8 | 83 |
| 2 | 4H-Imidazol-4-one, 2-amino-1,5-d... | 99 | C3H5N3O | 000503-86-6 | 80 |
| 3 | 2(3H)-Furanone, 5-hexyldihydro-4... | 184 | C11H20O2 | 147254-33-9 | 78 |
| 4 | Hexanoic acid, 4-octyl ester | 228 | C14H28O2 | 1000160-13-3 | 78 |
| 5 | Hexanoic acid, 4-tridecyl ester | 298 | C19H38O2 | 1000279-29-3 | 74 |



Data Path : Z:\SVOASRV\HPCHEM1\BNA G\DATA\BG081720\
Data File : BG046333.D
Acq On : 18 Aug 2020 18:31
Operator : CG/JU
Sample : L3636-06
Misc :
ALS Vial : 40 Sample Multiplier: 1

**Instrument :** BNA_G
**ClientSampleId :** BFMK2

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_G\METHODS\SOM-EPA-BG081320PAH.M
Quant Title : SVOA CALIBRATION

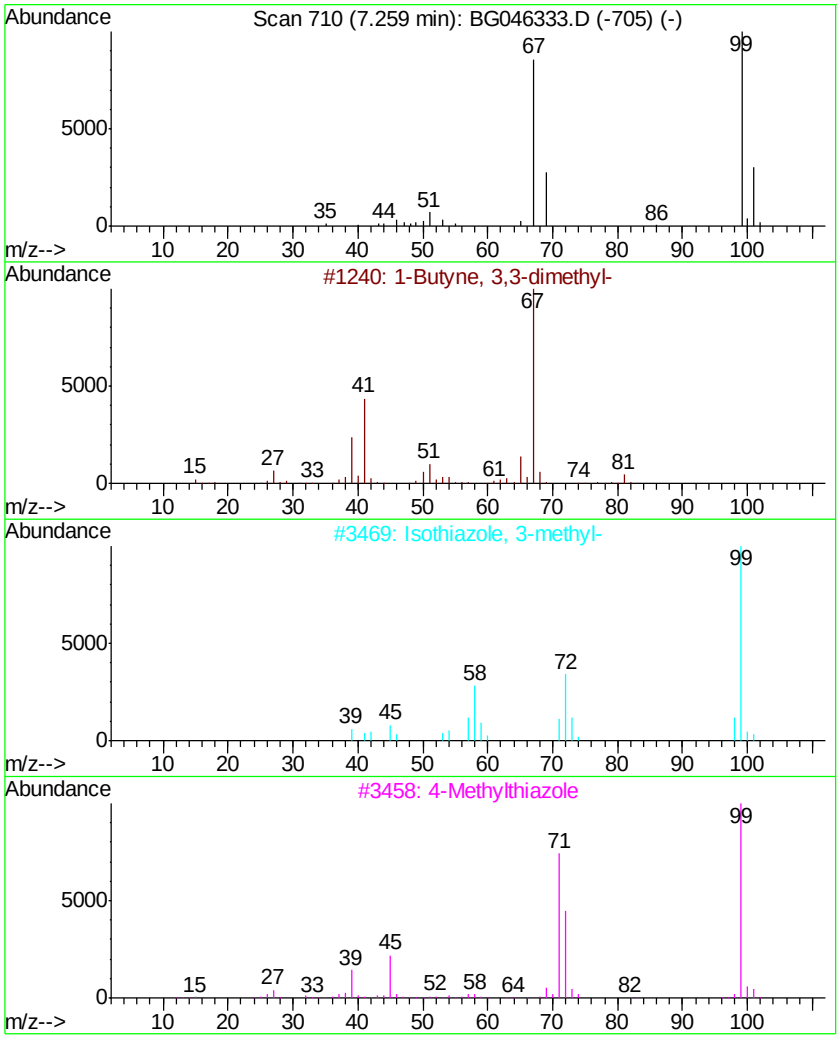
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

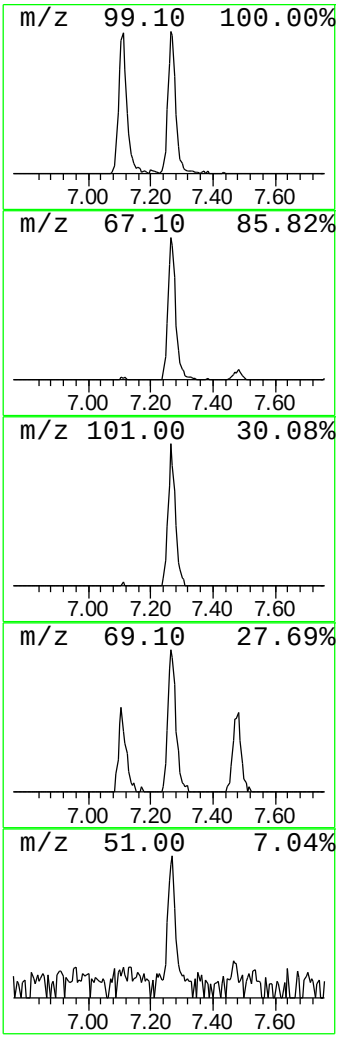
**********

Peak Number 3 unknown-01 Concentration Rank 9

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 7.26 | 3.47 ng/ul | 91920 | 1,4-Dichlorobenzene-d4 | 7.94 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 1-Butyne, 3,3-dimethyl- | 82 | C6H10 | 000917-92-0 | 12 |
| 2 | Isothiazole, 3-methyl- | 99 | C4H5NS | 000693-92-5 | 9 |
| 3 | 4-Methylthiazole | 99 | C4H5NS | 000693-95-8 | 9 |
| 4 | Cyclopentane, methylene- | 82 | C6H10 | 001528-30-9 | 9 |
| 5 | Cyclopentene, 1-methyl- | 82 | C6H10 | 000693-89-0 | 9 |



Data Path : Z:\SVOASRV\HPCHEM1\BNA G\DATA\BG081720\
Data File : BG046333.D
Acq On : 18 Aug 2020 18:31
Operator : CG/JU
Sample : L3636-06
Misc :
ALS Vial : 40 Sample Multiplier: 1

**Instrument :** BNA_G
**ClientSampleId :** BFMK2

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_G\METHODS\SOM-EPA-BG081320PAH.M
Quant Title : SVOA CALIBRATION

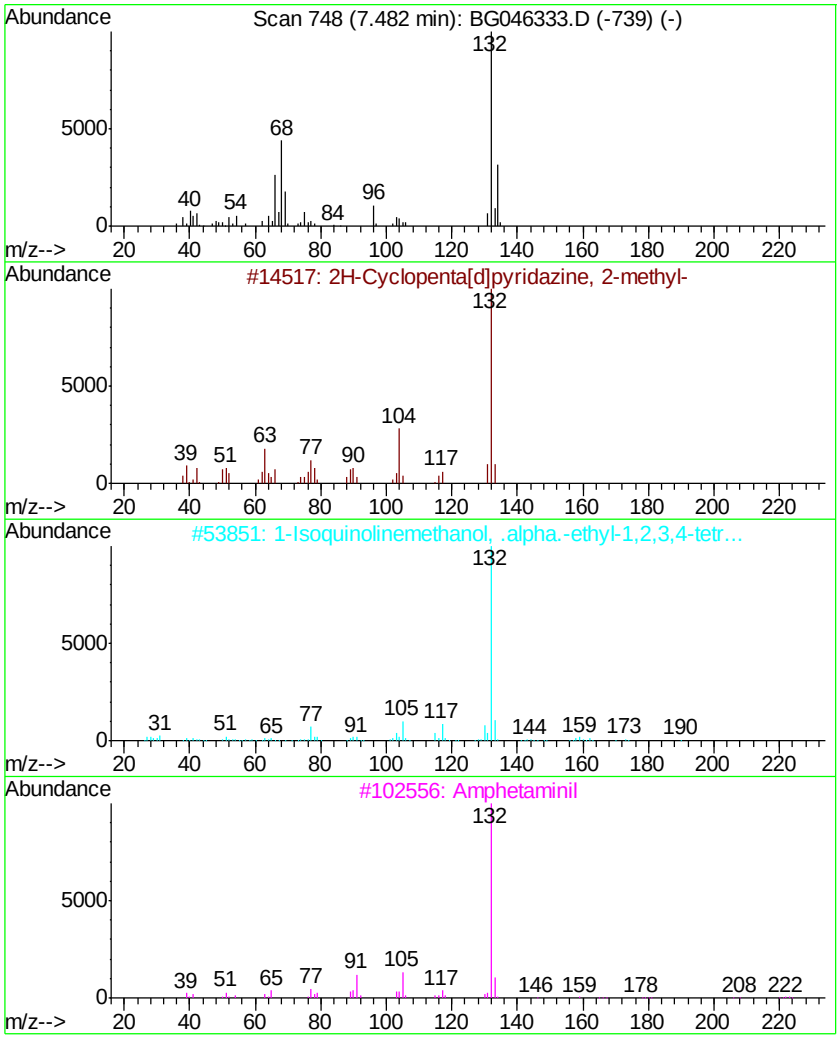
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

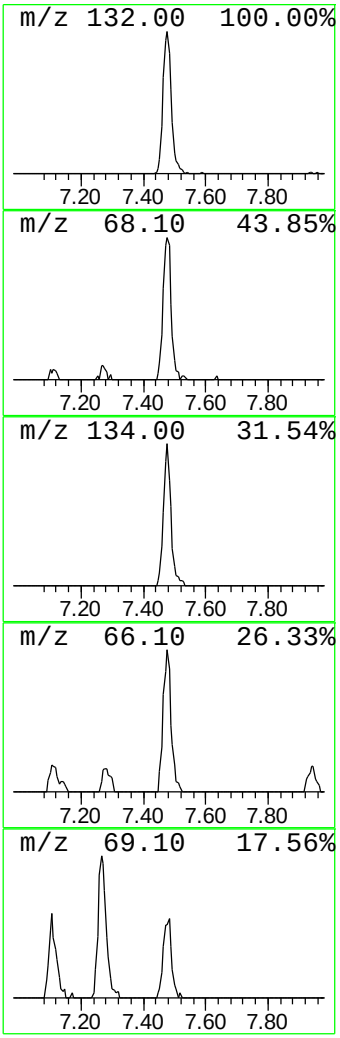
**********

Peak Number 4 unknown-02 Concentration Rank 5

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 7.48 | 3.97 ng/ul | 105187 | 1,4-Dichlorobenzene-d4 | 7.94 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 2H-Cyclopenta[d]pyridazine, 2-me... | 132 | C8H8N2 | 022291-85-6 | 12 |
| 2 | 1-Isoquinolinemethanol, .alpha.-... | 191 | C12H17NO | 114608-92-3 | 12 |
| 3 | Amphetaminil | 250 | C17H18N2 | 017590-01-1 | 12 |
| 4 | Bicyclo[4.2.0]octa-1,3,5-triene,... | 132 | C10H12 | 028749-81-7 | 10 |
| 5 | 5-Aminoindole | 132 | C8H8N2 | 005192-03-0 | 10 |



Data Path : Z:\SVOASRV\HPCHEM1\BNA G\DATA\BG081720\
Data File : BG046333.D
Acq On : 18 Aug 2020 18:31
Operator : CG/JU
Sample : L3636-06
Misc :
ALS Vial : 40 Sample Multiplier: 1

**Instrument :** BNA_G
**ClientSampleId :** BFMK2

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_G\METHODS\SOM-EPA-BG081320PAH.M
Quant Title : SVOA CALIBRATION

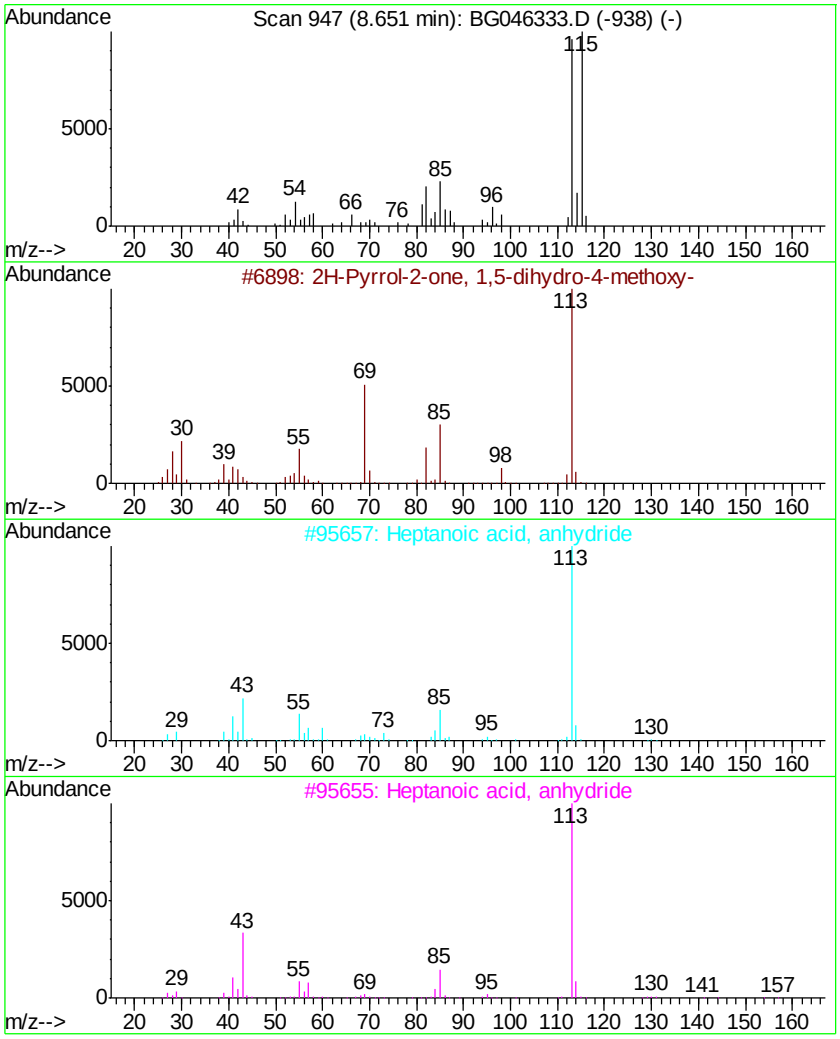
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

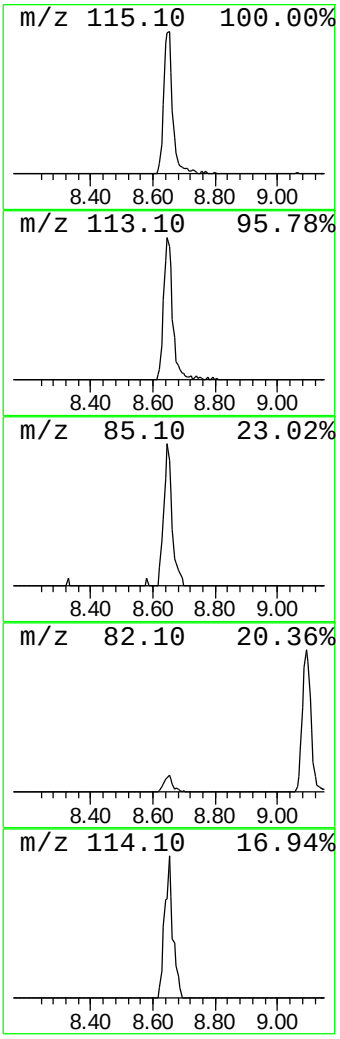
**********

Peak Number 5 unknown-03 Concentration Rank 7

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 8.65 | 3.79 ng/ul | 100656 | 1,4-Dichlorobenzene-d4 | 7.94 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 2H-Pyrrol-2-one, 1,5-dihydro-4-m... | 113 | C5H7NO2 | 069778-83-2 | 38 |
| 2 | Heptanoic acid, anhydride | 242 | C14H26O3 | 000626-27-7 | 38 |
| 3 | Heptanoic acid, anhydride | 242 | C14H26O3 | 000626-27-7 | 38 |
| 4 | Heptanoic acid, anhydride | 242 | C14H26O3 | 000626-27-7 | 35 |
| 5 | 4-Fluoro-6-aminopyrimidine | 113 | C4H4FN3 | 051421-96-6 | 27 |



Data Path : Z:\SVOASRV\HPCHEM1\BNA G\DATA\BG081720\
Data File : BG046333.D
Acq On : 18 Aug 2020 18:31
Operator : CG/JU
Sample : L3636-06
Misc :
ALS Vial : 40 Sample Multiplier: 1

**Instrument :** BNA_G
**ClientSampleId :** BFMK2

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_G\METHODS\SOM-EPA-BG081320PAH.M
Quant Title : SVOA CALIBRATION

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

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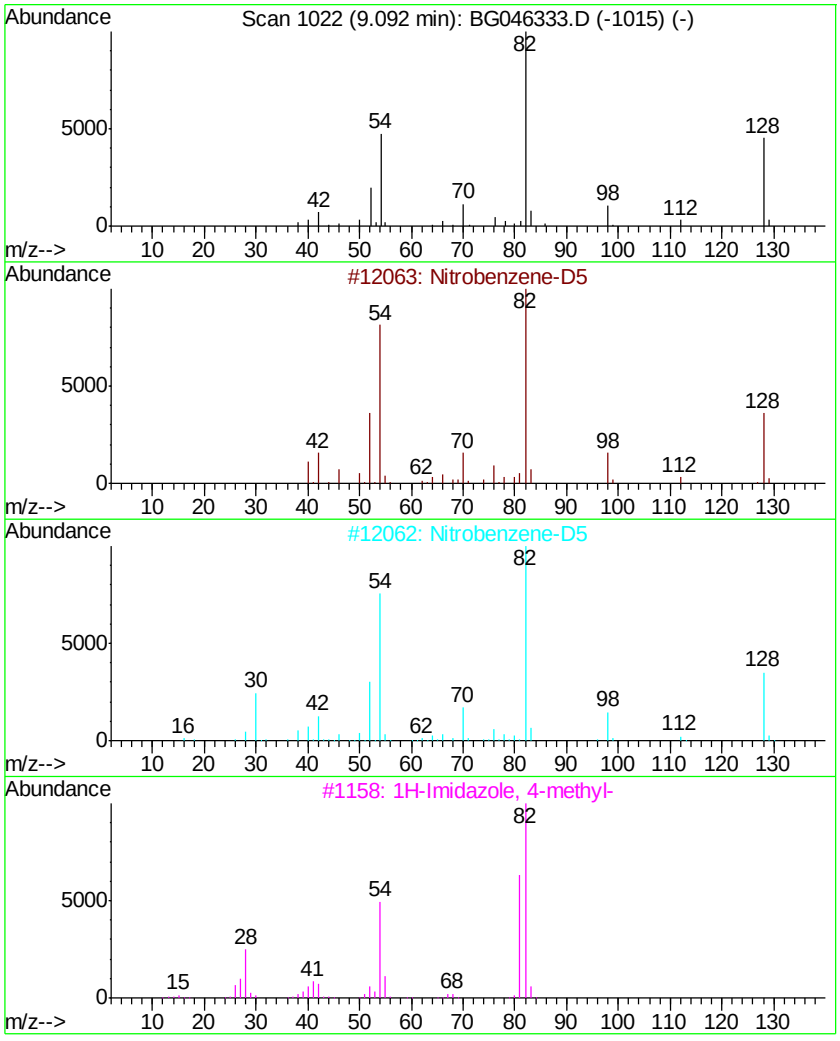
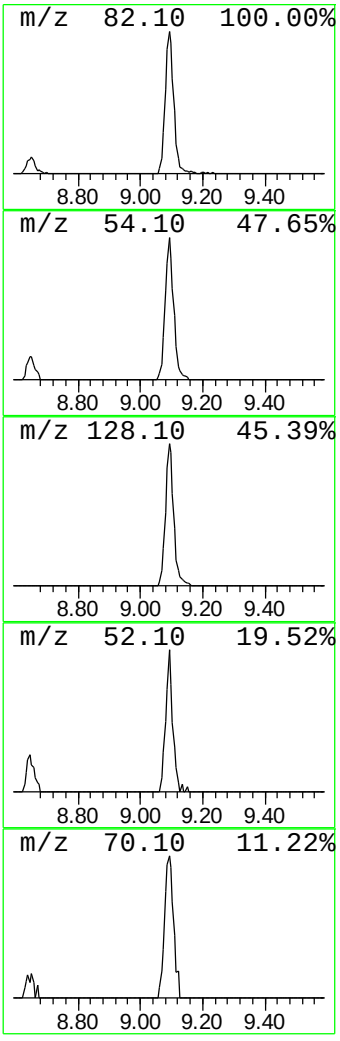
Peak Number 6 unknown-04 Concentration Rank 3

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 9.09 | 4.13 ng/ul | 109646 | 1,4-Dichlorobenzene-d4 | 7.94 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Nitrobenzene-D5 | 128 | C6D5NO2 | 004165-60-0 | 42 |
| 2 | Nitrobenzene-D5 | 128 | C6D5NO2 | 004165-60-0 | 35 |
| 3 | 1H-Imidazole, 4-methyl- | 82 | C4H6N2 | 000822-36-6 | 25 |
| 4 | 1H-Imidazole, 4-methyl- | 82 | C4H6N2 | 000822-36-6 | 9 |
| 5 | 1H-Imidazole, 2-methyl- | 82 | C4H6N2 | 000693-98-1 | 9 |



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Data File : BG046333.D
Acq On : 18 Aug 2020 18:31
Operator : CG/JU
Sample : L3636-06
Misc :
ALS Vial : 40 Sample Multiplier: 1

**Instrument :** BNA_G
**ClientSampleId :** BFMK2

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_G\METHODS\SOM-EPA-BG081320PAH.M
Quant Title : SVOA CALIBRATION

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

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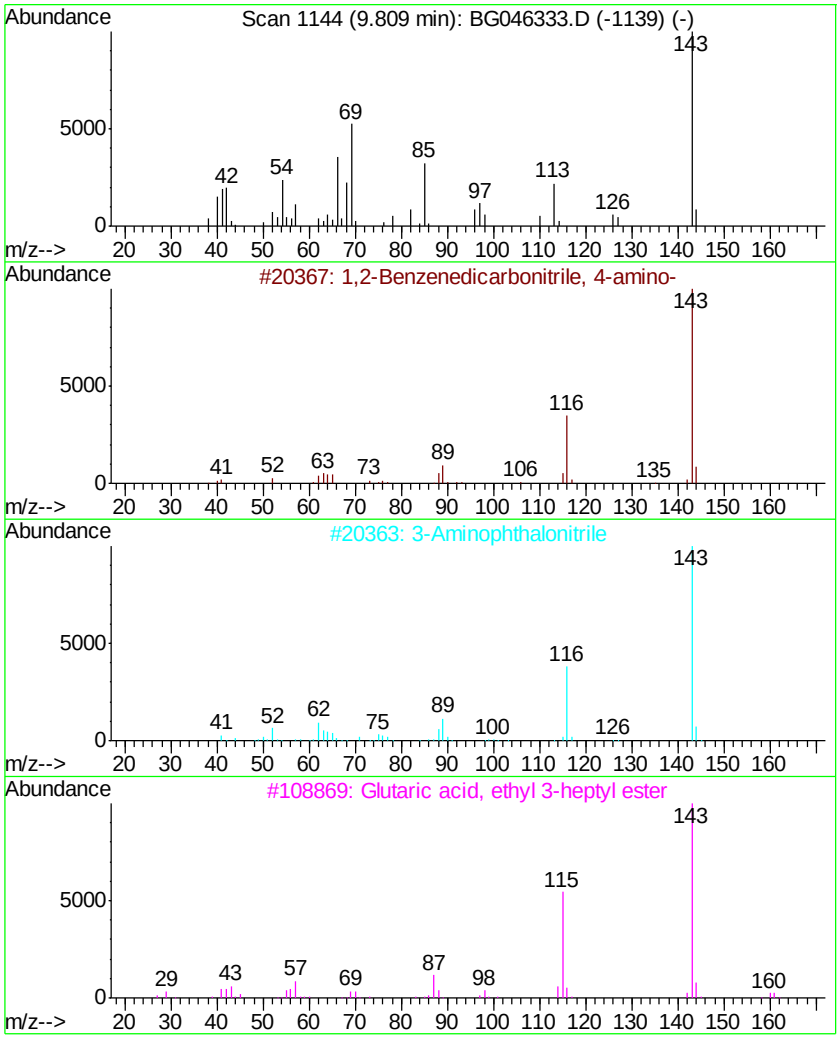
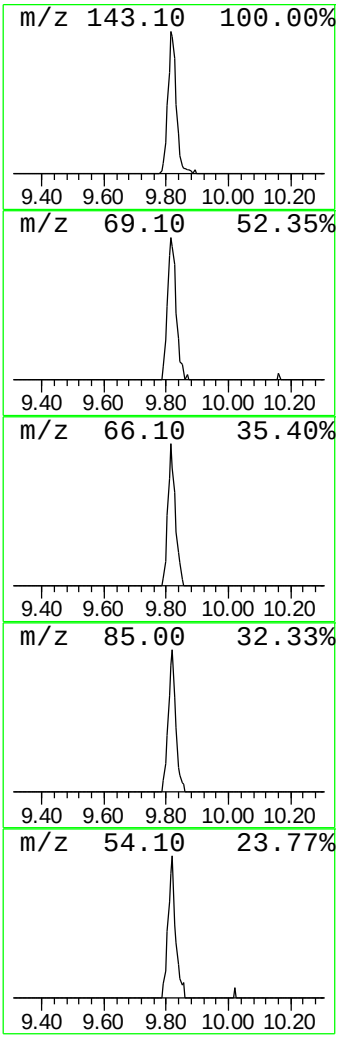
Peak Number 7 unknown-05 Concentration Rank 13

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 9.81 | 2.17 ng/ul | 85023 | Naphthalene-d8 | 10.74 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 1,2-Benzenedicarbonitrile, 4-amino- | 143 | C8H5N3 | 056765-79-8 | 10 |
| 2 | 3-Aminophthalonitrile | 143 | C8H5N3 | 058632-96-5 | 10 |
| 3 | Glutaric acid, ethyl 3-heptyl ester | 258 | C14H26O4 | 1000359-73-0 | 10 |
| 4 | Glutaric acid, ethyl 4-heptyl ester | 258 | C14H26O4 | 1000359-45-2 | 10 |
| 5 | Glutaric acid, ethyl 3-hexyl ester | 244 | C13H24O4 | 1000359-54-1 | 9 |



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Data File : BG046333.D
Acq On : 18 Aug 2020 18:31
Operator : CG/JU
Sample : L3636-06
Misc :
ALS Vial : 40 Sample Multiplier: 1

**Instrument :** BNA_G
**ClientSampleId :** BFMK2

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_G\METHODS\SOM-EPA-BG081320PAH.M
Quant Title : SVOA CALIBRATION

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

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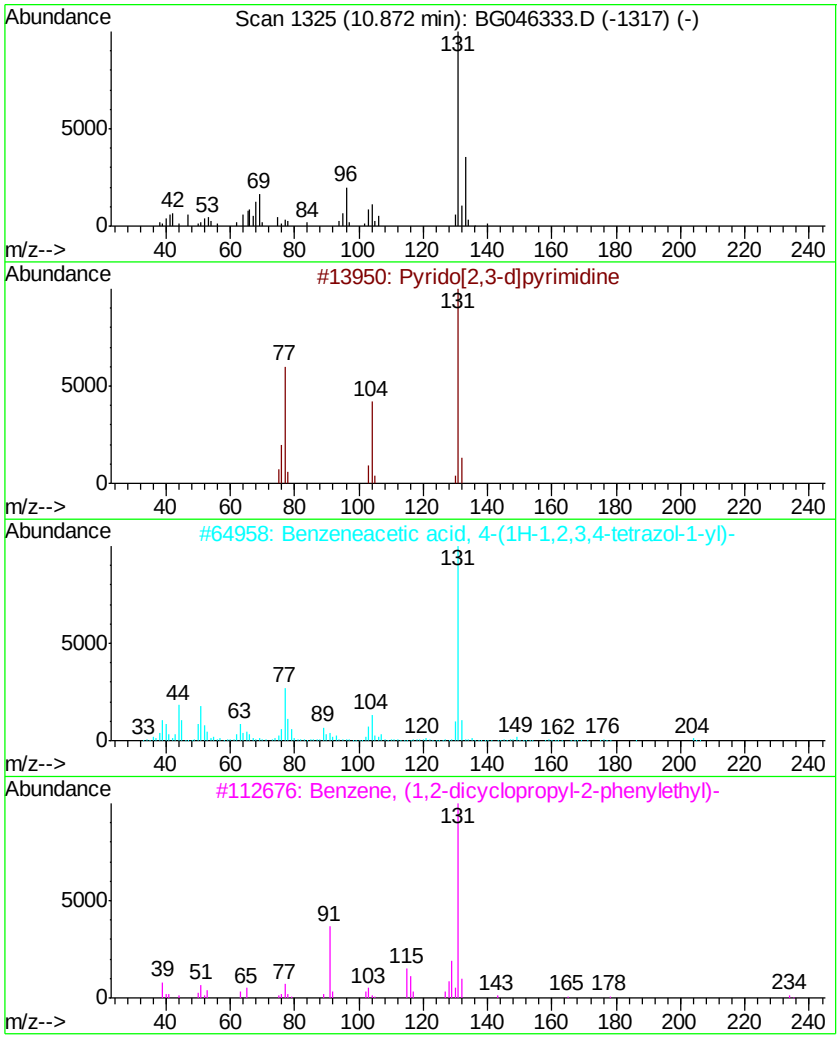
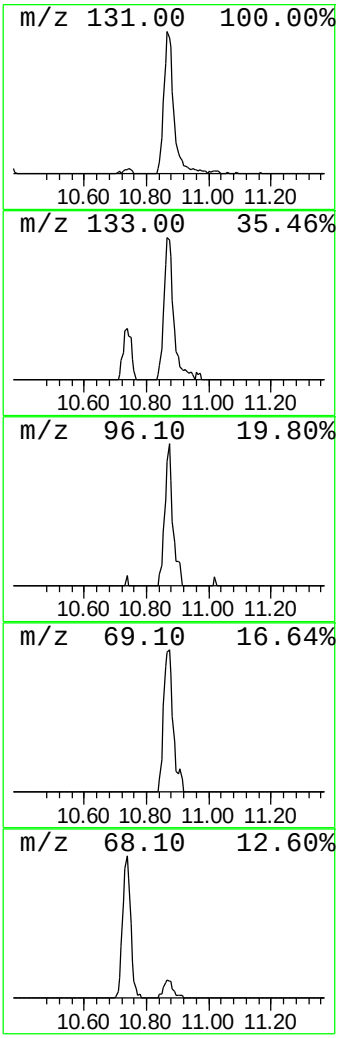
Peak Number 8 unknown-06 Concentration Rank 12

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 10.87 | 2.20 ng/ul | 86369 | Naphthalene-d8 | 10.74 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Pyrido[2,3-d]pyrimidine | 131 | C7H5N3 | 000254-61-5 | 40 |
| 2 | Benzeneacetic acid, 4-(1H-1,2,3,... | 204 | C9H8N4O2 | 1000351-56-5 | 33 |
| 3 | Benzene, (1,2-dicyclopropyl-2-ph... | 262 | C20H22 | 110330-90-0 | 28 |
| 4 | 1H-Indole, 1-methyl- | 131 | C9H9N | 000603-76-9 | 28 |
| 5 | Cyclopropane, 2-bromo-1-methyl-1... | 210 | C10H11Br | 055091-64-0 | 28 |



Library Search Compound Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA G\DATA\BG081720\
Data File : BG046333.D
Acq On : 18 Aug 2020 18:31
Operator : CG/JU
Sample : L3636-06
Misc :
ALS Vial : 40 Sample Multiplier: 1

**Instrument :** BNA_G
**ClientSampleId :** BFMK2

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_G\METHODS\SOM-EPA-BG081320PAH.M
Quant Title : SVOA CALIBRATION

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

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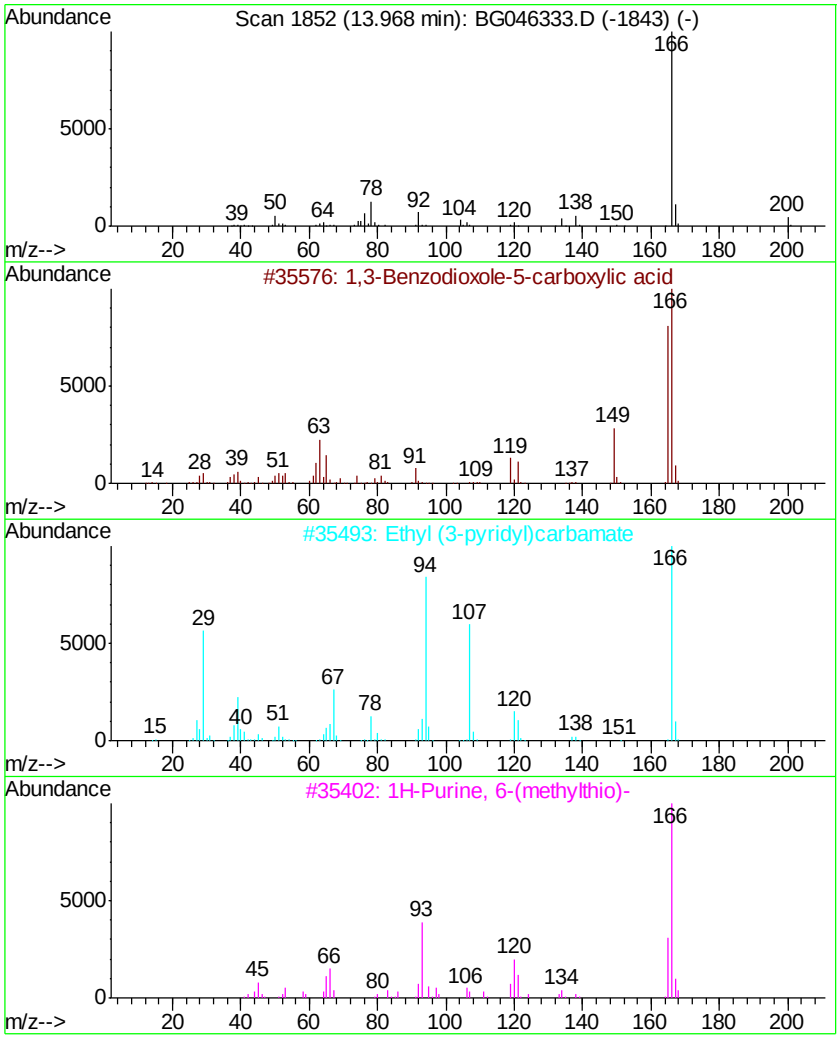
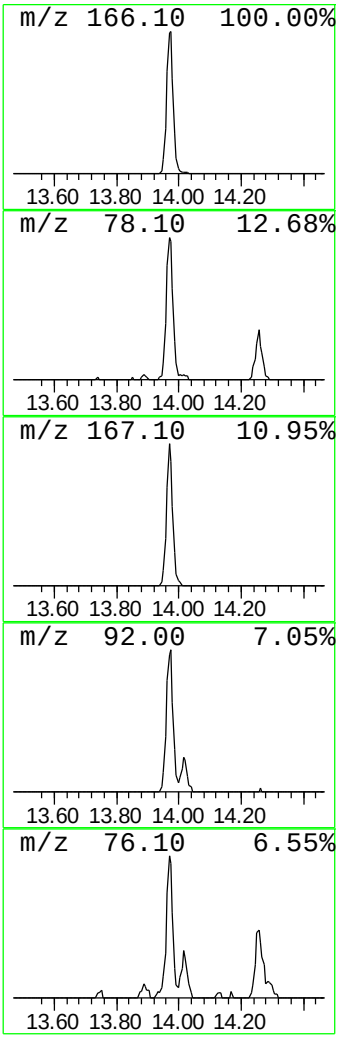
Peak Number 9 unknown-07 Concentration Rank 2

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 13.97 | 4.51 ng/ul | 247309 | Acenaphthene-d10 | 14.57 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 1,3-Benzodioxole-5-carboxylic acid | 166 | C8H6O4 | 000094-53-1 | 42 |
| 2 | Ethyl (3-pyridyl)carbamate | 166 | C8H10N2O2 | 006276-11-5 | 39 |
| 3 | 1H-Purine, 6-(methylthio)- | 166 | C6H6N4S | 000050-66-8 | 38 |
| 4 | Benzenamine, N,N-dimethyl-4-nitro- | 166 | C8H10N2O2 | 000100-23-2 | 38 |
| 5 | 1H-Benzimidazole-2-ethanamine, 5... | 195 | C9H10ClN3 | 135875-16-0 | 38 |



Data Path : Z:\SVOASRV\HPCHEM1\BNA G\DATA\BG081720\
Data File : BG046333.D
Acq On : 18 Aug 2020 18:31
Operator : CG/JU
Sample : L3636-06
Misc :
ALS Vial : 40 Sample Multiplier: 1

**Instrument :** BNA_G
**ClientSampleId :** BFMK2

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_G\METHODS\SOM-EPA-BG081320PAH.M
Quant Title : SVOA CALIBRATION

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

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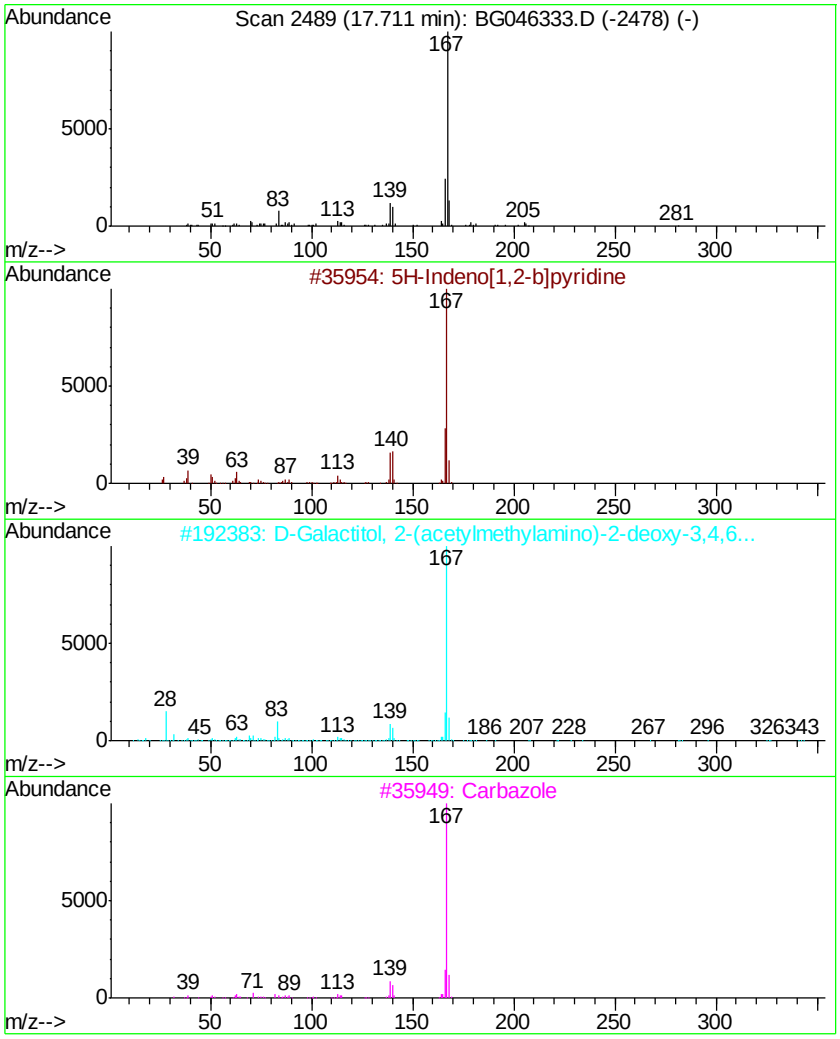
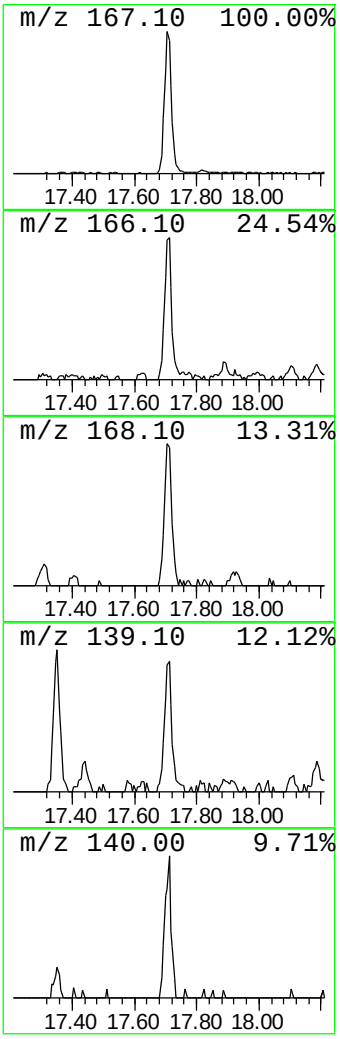
Peak Number 10 5H-Indeno[1,2-b]pyridine Concentration Rank 15

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 17.71 | 2.09 ng/ul | 137817 | Phenanthrene-d10 | 17.31 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 5H-Indeno[1,2-b]pyridine | 167 | C12H9N | 000244-99-5 | 91 |
| 2 | D-Galactitol, 2-(acetylmethylami... | 363 | C16H29NO8 | 074410-42-7 | 86 |
| 3 | Carbazole | 167 | C12H9N | 000086-74-8 | 81 |
| 4 | 5H-Indeno[1,2-b]pyridine | 167 | C12H9N | 000244-99-5 | 80 |
| 5 | Carbazole | 167 | C12H9N | 000086-74-8 | 80 |



Library Search Compound Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA G\DATA\BG081720\
Data File : BG046333.D
Acq On : 18 Aug 2020 18:31
Operator : CG/JU
Sample : L3636-06
Misc :
ALS Vial : 40 Sample Multiplier: 1

**Instrument :** BNA_G
**ClientSampleId :** BFMK2

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_G\METHODS\SOM-EPA-BG081320PAH.M
Quant Title : SVOA CALIBRATION

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

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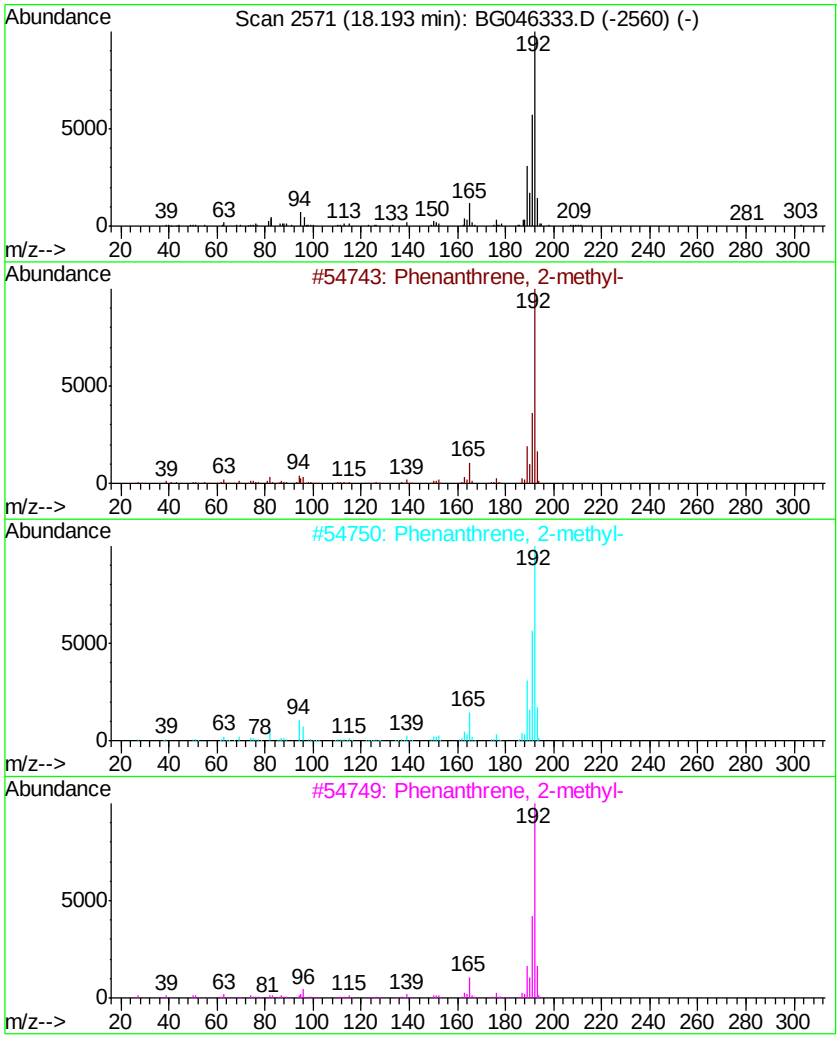
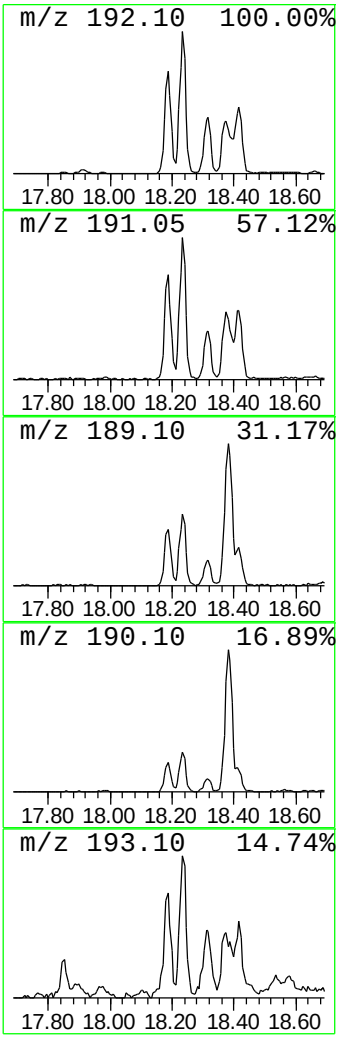
Peak Number 11 Phenanthrene, 2-methyl- Concentration Rank 10

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 18.19 | 3.07 ng/ul | 202098 | Phenanthrene-d10 | 17.31 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Phenanthrene, 2-methyl- | 192 | C15H12 | 002531-84-2 | 96 |
| 2 | Phenanthrene, 2-methyl- | 192 | C15H12 | 002531-84-2 | 95 |
| 3 | Phenanthrene, 2-methyl- | 192 | C15H12 | 002531-84-2 | 95 |
| 4 | Phenanthrene, 1-methyl- | 192 | C15H12 | 000832-69-9 | 95 |
| 5 | Anthracene, 9-methyl- | 192 | C15H12 | 000779-02-2 | 94 |



Library Search Compound Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA G\DATA\BG081720\
Data File : BG046333.D
Acq On : 18 Aug 2020 18:31
Operator : CG/JU
Sample : L3636-06
Misc :
ALS Vial : 40 Sample Multiplier: 1

**Instrument :** BNA_G
**ClientSampleId :** BFMK2

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_G\METHODS\SOM-EPA-BG081320PAH.M
Quant Title : SVOA CALIBRATION

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

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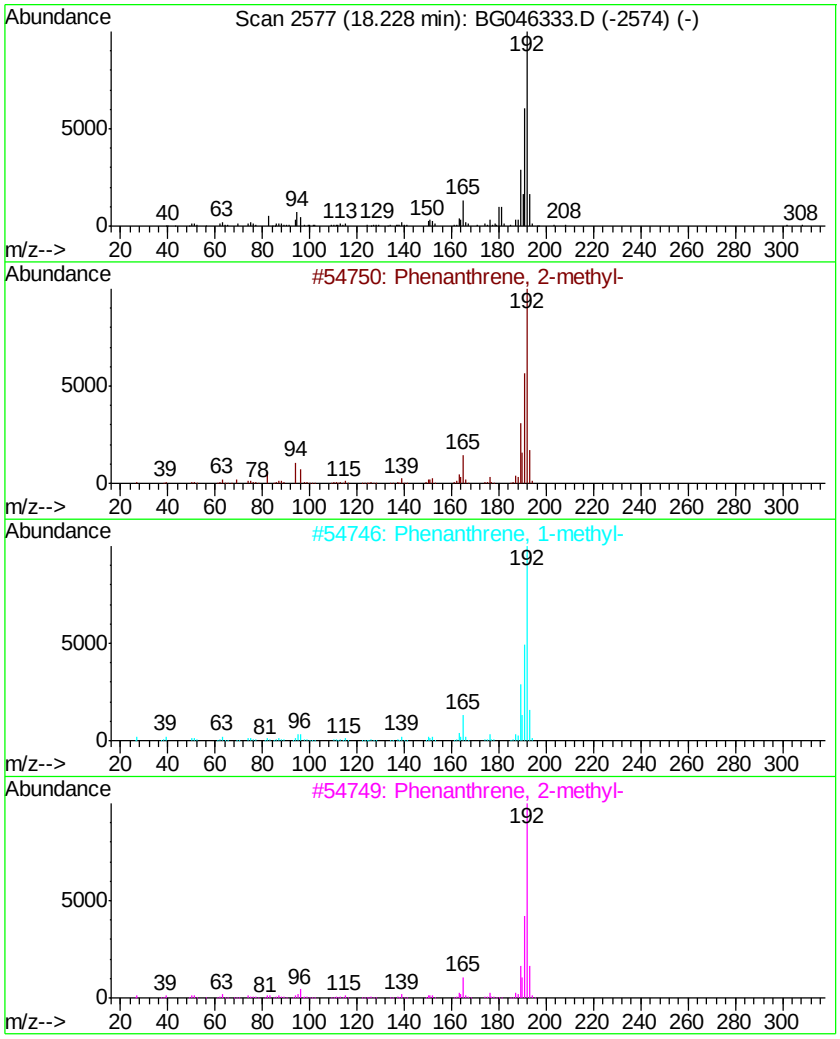
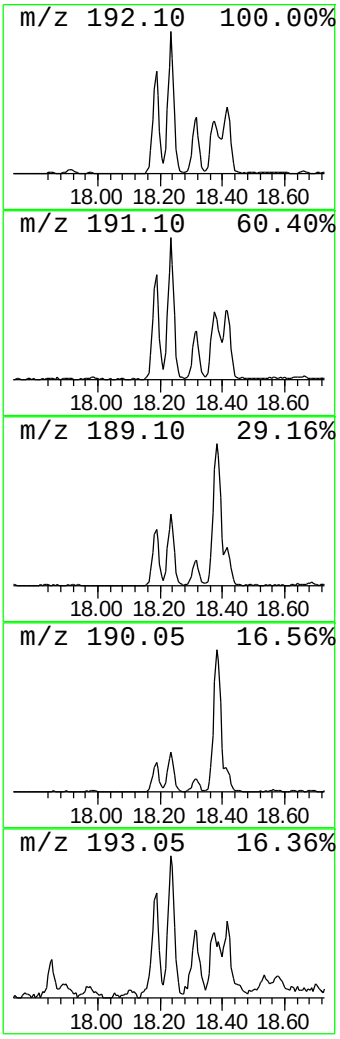
Peak Number 12 Phenanthrene, 1-methyl- Concentration Rank 6

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 18.23 | 3.80 ng/ul | 249923 | Phenanthrene-d10 | 17.31 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Phenanthrene, 2-methyl- | 192 | C15H12 | 002531-84-2 | 96 |
| 2 | Phenanthrene, 1-methyl- | 192 | C15H12 | 000832-69-9 | 96 |
| 3 | Phenanthrene, 2-methyl- | 192 | C15H12 | 002531-84-2 | 95 |
| 4 | Phenanthrene, 2-methyl- | 192 | C15H12 | 002531-84-2 | 95 |
| 5 | 1H-Cyclopropa[l]phenanthrene,1a,... | 192 | C15H12 | 000949-41-7 | 95 |



Library Search Compound Report

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Data File : BG046333.D
Acq On : 18 Aug 2020 18:31
Operator : CG/JU
Sample : L3636-06
Misc :
ALS Vial : 40 Sample Multiplier: 1

**Instrument :** BNA_G
**ClientSampleId :** BFMK2

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_G\METHODS\SOM-EPA-BG081320PAH.M
Quant Title : SVOA CALIBRATION

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

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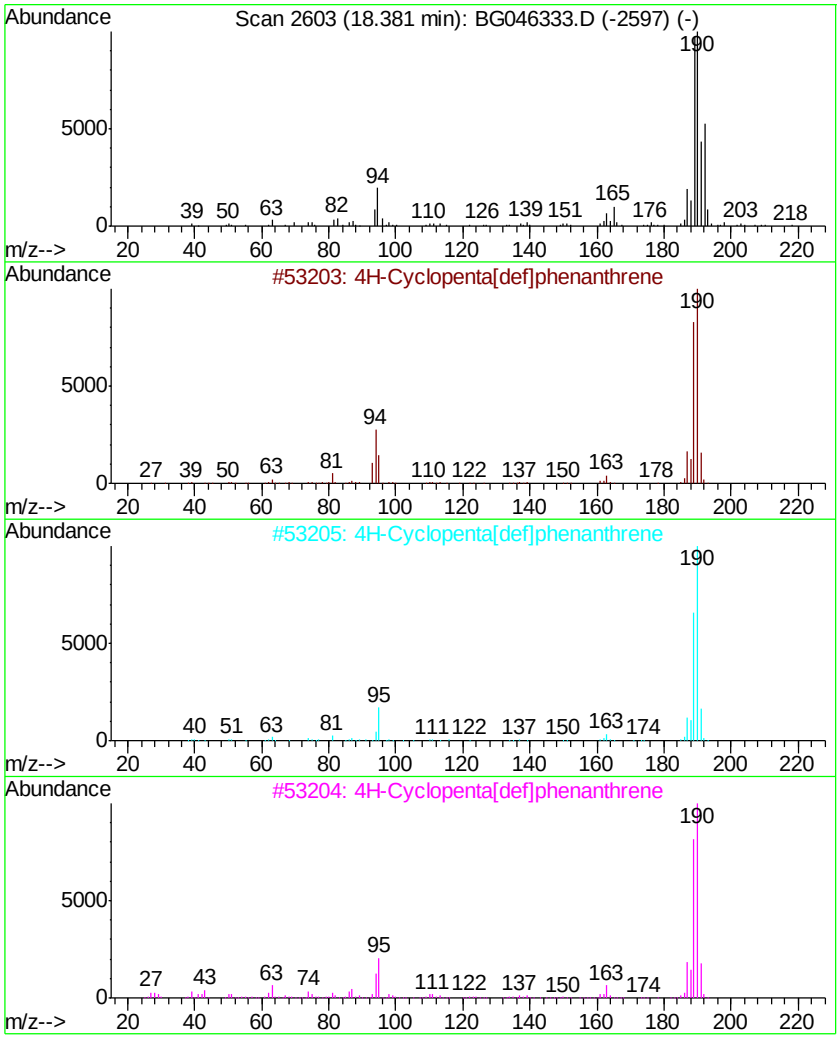
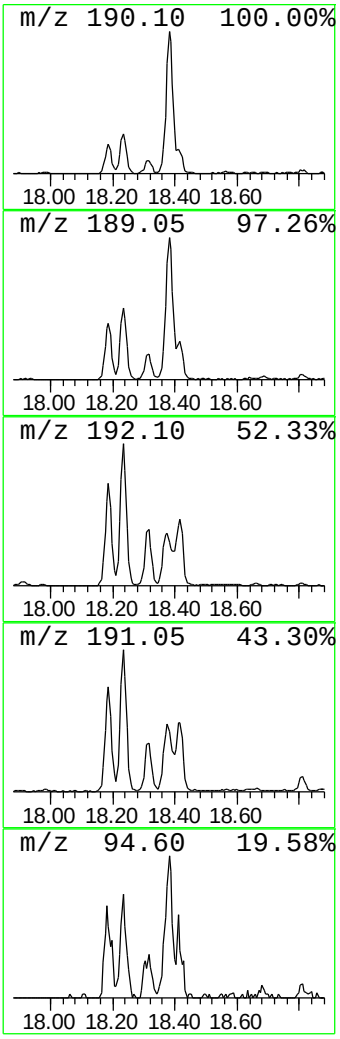
Peak Number 13 4H-Cyclopenta[def]phenanthrene Concentration Rank 4

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 18.38 | 4.02 ng/ul | 264808 | Phenanthrene-d10 | 17.31 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 4H-Cyclopenta[def]phenanthrene | 190 | C15H10 | 000203-64-5 | 70 |
| 2 | 4H-Cyclopenta[def]phenanthrene | 190 | C15H10 | 000203-64-5 | 58 |
| 3 | 4H-Cyclopenta[def]phenanthrene | 190 | C15H10 | 000203-64-5 | 53 |
| 4 | 2,3,5,6-Tetramethylterephthalald... | 190 | C12H14O2 | 007072-01-7 | 43 |
| 5 | 2,6-Dichlorobenzaldoxime | 189 | C7H5Cl2NO | 025185-95-9 | 30 |



Data Path : Z:\SVOASRV\HPCHEM1\BNA G\DATA\BG081720\
Data File : BG046333.D
Acq On : 18 Aug 2020 18:31
Operator : CG/JU
Sample : L3636-06
Misc :
ALS Vial : 40 Sample Multiplier: 1

**Instrument :** BNA_G
**ClientSampleId :** BFMK2

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_G\METHODS\SOM-EPA-BG081320PAH.M
Quant Title : SVOA CALIBRATION

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

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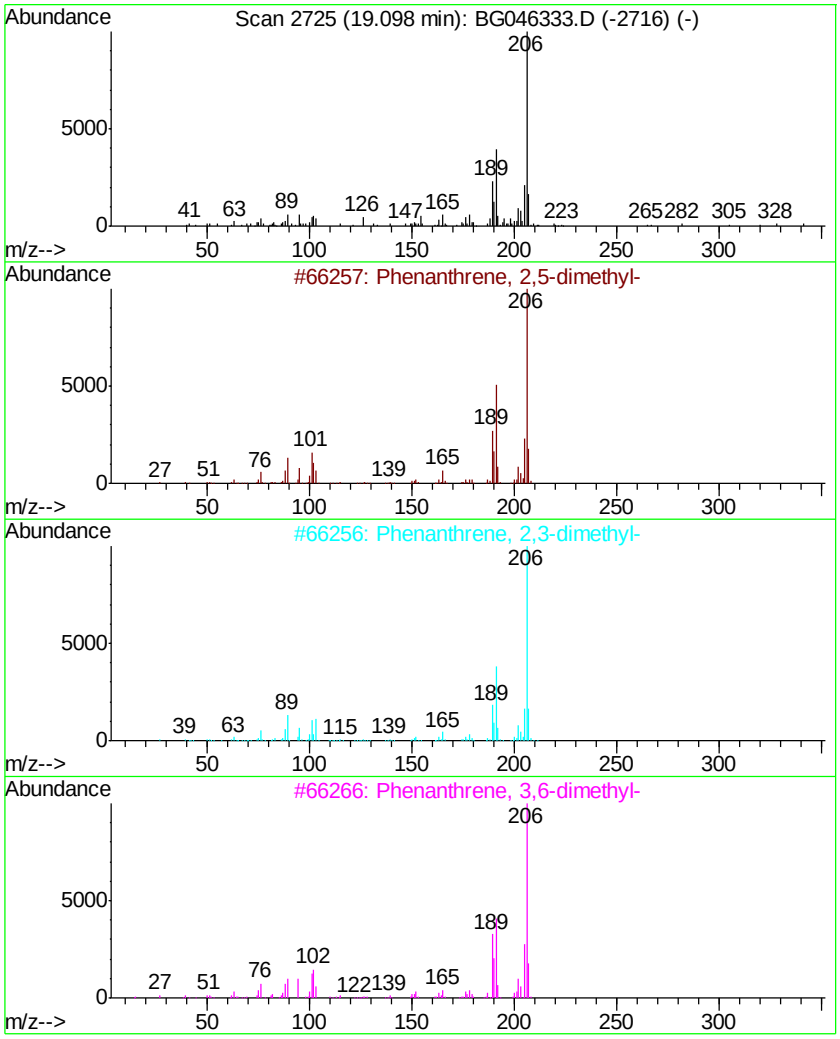
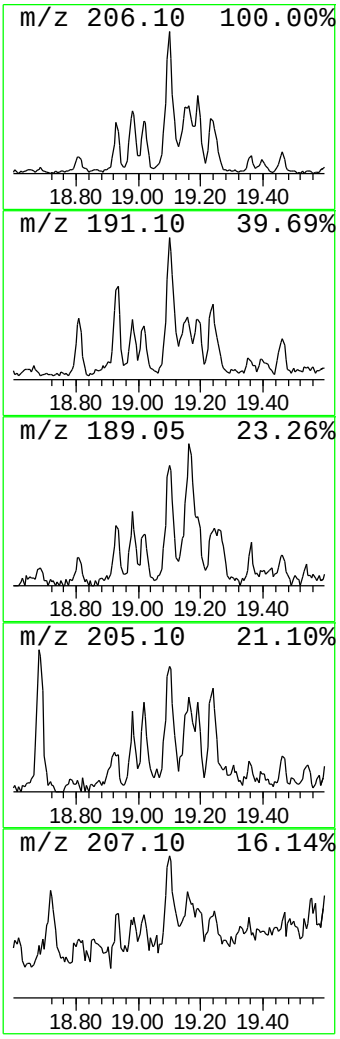
Peak Number 14 Phenanthrene, 2,5-dimethyl- Concentration Rank 16

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 19.10 | 2.03 ng/ul | 133293 | Phenanthrene-d10 | 17.31 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Phenanthrene, 2,5-dimethyl- | 206 | C16H14 | 003674-66-6 | 93 |
| 2 | Phenanthrene, 2,3-dimethyl- | 206 | C16H14 | 003674-65-5 | 90 |
| 3 | Phenanthrene, 3,6-dimethyl- | 206 | C16H14 | 001576-67-6 | 90 |
| 4 | 9,10-Dimethylanthracene | 206 | C16H14 | 000781-43-1 | 90 |
| 5 | Phenanthrene, 2,7-dimethyl- | 206 | C16H14 | 001576-69-8 | 86 |



# Library Search Compound Report

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Data File : BG046333.D
Acq On : 18 Aug 2020 18:31
Operator : CG/JU
Sample : L3636-06
Misc :
ALS Vial : 40 Sample Multiplier: 1

**Instrument :** BNA_G
**ClientSampleId :** BFMK2

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_G\METHODS\SOM-EPA-BG081320PAH.M
Quant Title : SVOA CALIBRATION

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

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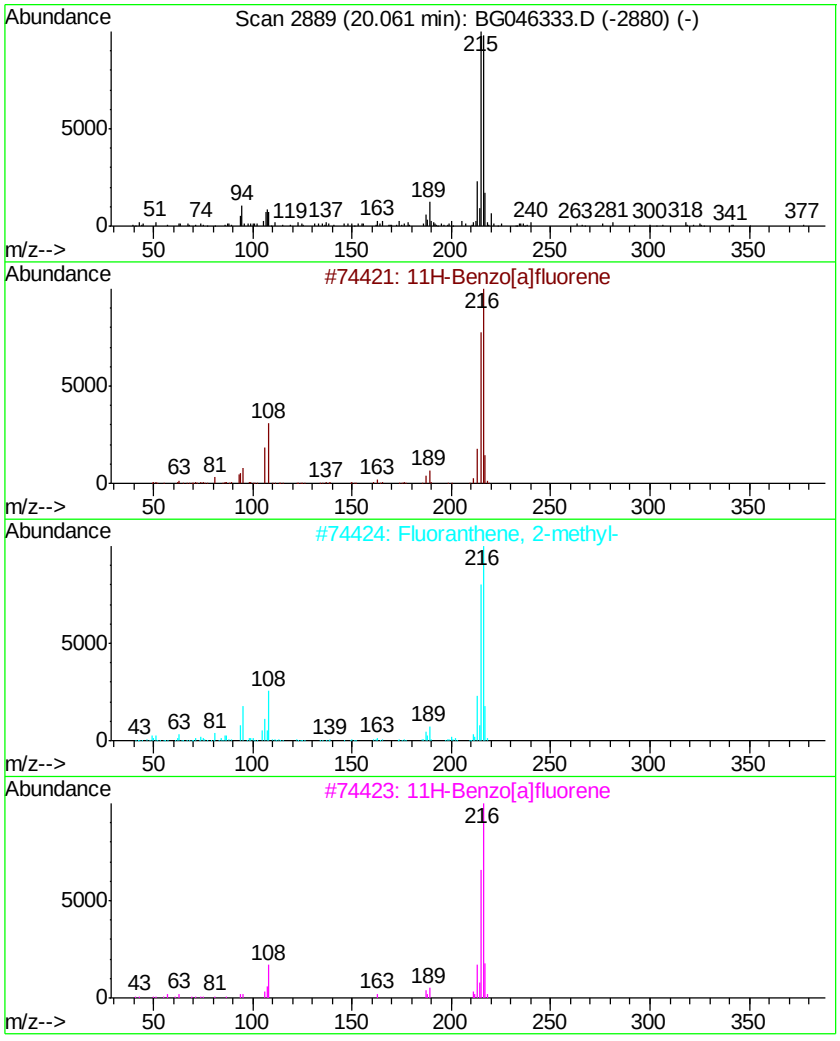
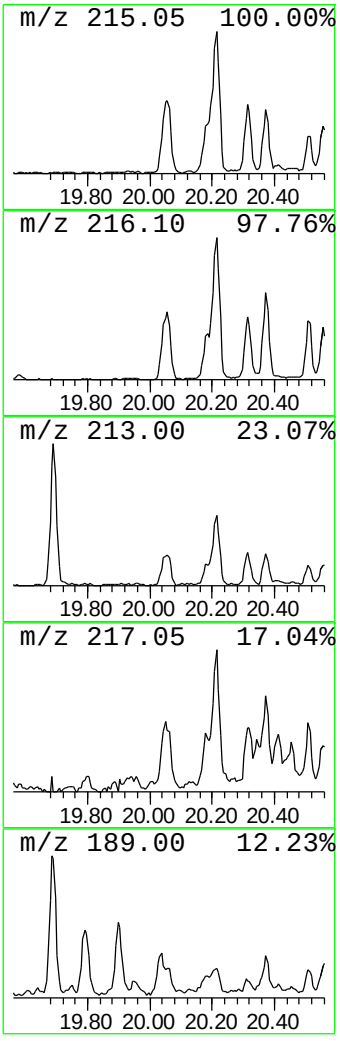
Peak Number 15 11H-Benzo[a]fluorene Concentration Rank 17

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 20.06 | 2.01 ng/ul | 228024 | Chrysene-d12 | 21.55 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 11H-Benzo[a]fluorene | 216 | C17H12 | 000238-84-6 | 87 |
| 2 | Fluoranthene, 2-methyl- | 216 | C17H12 | 033543-31-6 | 86 |
| 3 | 11H-Benzo[a]fluorene | 216 | C17H12 | 000238-84-6 | 76 |
| 4 | 11H-Benzo[b]fluorene | 216 | C17H12 | 000243-17-4 | 72 |
| 5 | Pyrene, 1-methyl- | 216 | C17H12 | 002381-21-7 | 70 |



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Data File : BG046333.D
Acq On : 18 Aug 2020 18:31
Operator : CG/JU
Sample : L3636-06
Misc :
ALS Vial : 40 Sample Multiplier: 1

**Instrument :** BNA_G
**ClientSampleId :** BFMK2

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_G\METHODS\SOM-EPA-BG081320PAH.M
Quant Title : SVOA CALIBRATION

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

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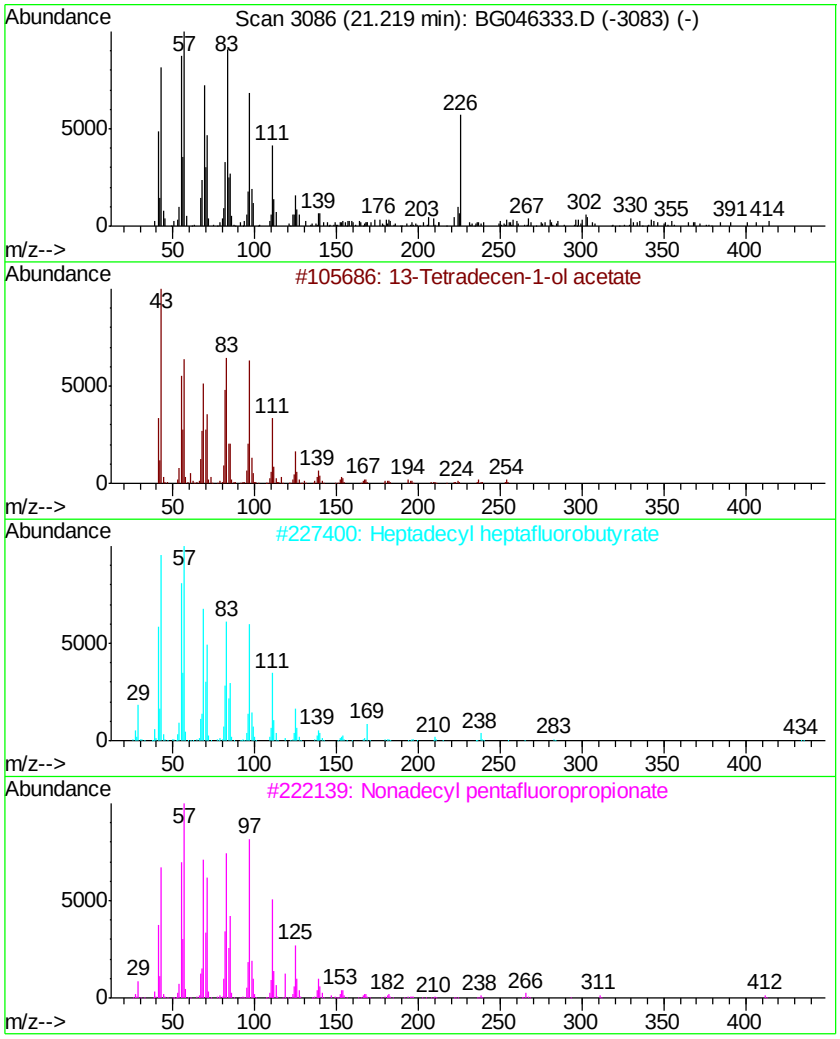
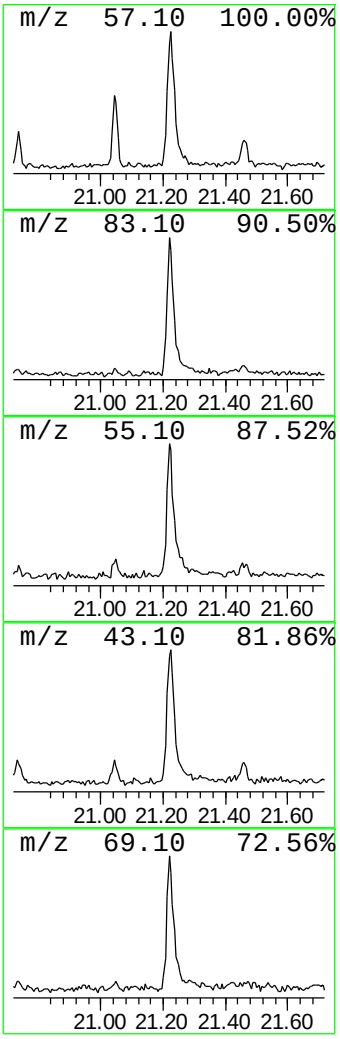
Peak Number 16 13-Tetradecen-1-ol acetate Concentration Rank 11

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 21.22 | 2.95 ng/ul | 334822 | Chrysene-d12 | 21.55 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 13-Tetradecen-1-ol acetate | 254 | C16H30O2 | 056221-91-1 | 90 |
| 2 | Heptadecyl heptafluorobutyrate | 452 | C21H35F7O2 | 959085-66-6 | 60 |
| 3 | Nonadecyl pentafluoropropionate | 430 | C22H39F5O2 | 1000351-88-8 | 58 |
| 4 | Pentafluoropropionic acid, penta... | 374 | C18H31F5O2 | 959092-08-1 | 55 |
| 5 | Heptafluorobutyric acid, pentade... | 424 | C19H31F7O2 | 959261-23-5 | 55 |



Data Path : Z:\SVOASRV\HPCHEM1\BNA G\DATA\BG081720\
Data File : BG046333.D
Acq On : 18 Aug 2020 18:31
Operator : CG/JU
Sample : L3636-06
Misc :
ALS Vial : 40 Sample Multiplier: 1

**Instrument :** BNA_G
**ClientSampleId :** BFMK2

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_G\METHODS\SOM-EPA-BG081320PAH.M
Quant Title : SVOA CALIBRATION

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

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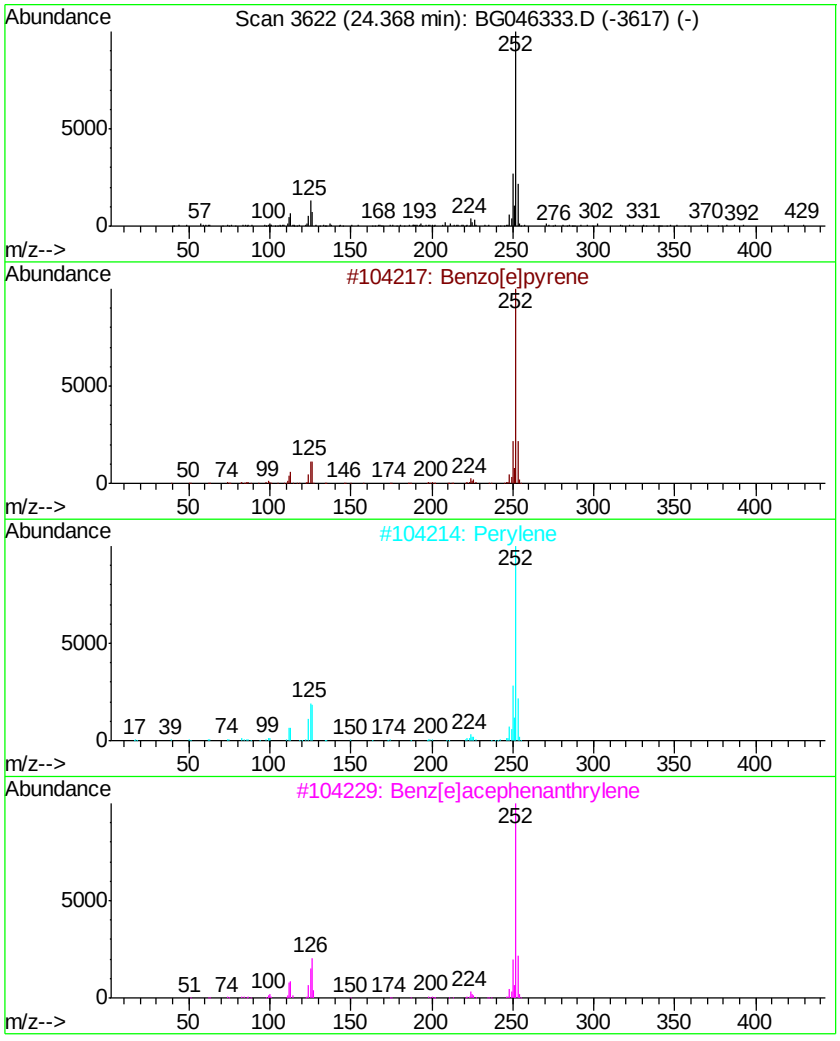
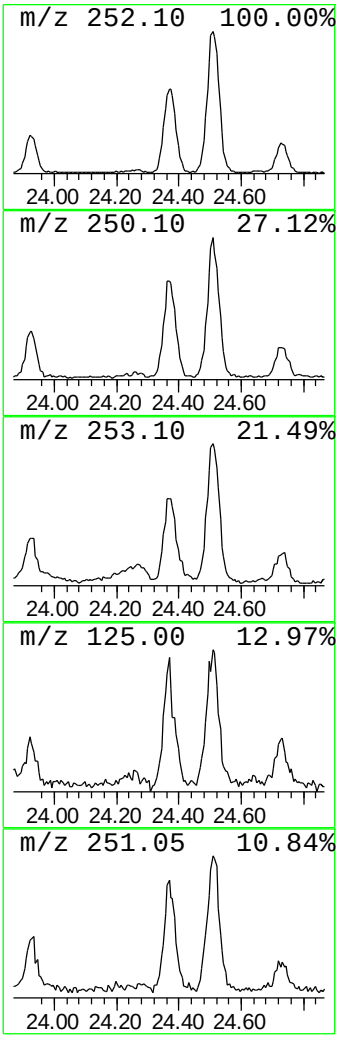
Peak Number 17 Benzo[e]pyrene Concentration Rank 14

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 24.37 | 2.13 ng/ul | 164860 | Perylene-d12 | 24.66 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Benzo[e]pyrene | 252 | C20H12 | 000192-97-2 | 96 |
| 2 | Perylene | 252 | C20H12 | 000198-55-0 | 93 |
| 3 | Benz[e]acephenanthrylene | 252 | C20H12 | 000205-99-2 | 91 |
| 4 | Benz[e]acephenanthrylene | 252 | C20H12 | 000205-99-2 | 91 |
| 5 | Benzo[a]pyrene | 252 | C20H12 | 000050-32-8 | 91 |



Tentatively Identified Compound (LSC) summary

Data Path : Z:\SVOASRV\HPCHEM1\BNA_G\DATA\BG081720\
Data File : BG046333.D
Acq On : 18 Aug 2020 18:31
Operator : CG/JU
Sample : L3636-06
Misc :
ALS Vial : 40 Sample Multiplier: 1

**Instrument :** BNA_G
**ClientSampleId :** BFMK2

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_G\METHODS\SOM-EPA-BG081320PAH.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 |
| Butane, 2-methoxy... | 3.15 | 84.5 | ng/ul | 2241050 | 1 | 7.94 | 530498 | 20.0 |
| cis-4-Hydroxy-3-m... | 7.11 | 3.6 | ng/ul | 95365 | 1 | 7.94 | 530498 | 20.0 |
| unknown-01 | 7.26 | 3.5 | ng/ul | 91920 | 1 | 7.94 | 530498 | 20.0 |
| unknown-02 | 7.48 | 4.0 | ng/ul | 105187 | 1 | 7.94 | 530498 | 20.0 |
| unknown-03 | 8.65 | 3.8 | ng/ul | 100656 | 1 | 7.94 | 530498 | 20.0 |
| unknown-04 | 9.09 | 4.1 | ng/ul | 109646 | 1 | 7.94 | 530498 | 20.0 |
| unknown-05 | 9.81 | 2.2 | ng/ul | 85023 | 2 | 10.74 | 784057 | 20.0 |
| unknown-06 | 10.87 | 2.2 | ng/ul | 86369 | 2 | 10.74 | 784057 | 20.0 |
| unknown-07 | 13.97 | 4.5 | ng/ul | 247309 | 3 | 14.57 | 1097070 | 20.0 |
| 5H-Indeno[1,2-b]p... | 17.71 | 2.1 | ng/ul | 137817 | 4 | 17.31 | 1316260 | 20.0 |
| Phenanthrene, 2-m... | 18.19 | 3.1 | ng/ul | 202098 | 4 | 17.31 | 1316260 | 20.0 |
| Phenanthrene, 1-m... | 18.23 | 3.8 | ng/ul | 249923 | 4 | 17.31 | 1316260 | 20.0 |
| 4H-Cyclopenta[def... | 18.38 | 4.0 | ng/ul | 264808 | 4 | 17.31 | 1316260 | 20.0 |
| Phenanthrene, 2,5... | 19.10 | 2.0 | ng/ul | 133293 | 4 | 17.31 | 1316260 | 20.0 |
| 11H-Benzo[a]fluorene | 20.06 | 2.0 | ng/ul | 228024 | 5 | 21.55 | 2266310 | 20.0 |
| 13-Tetradecen-1-o... | 21.22 | 3.0 | ng/ul | 334822 | 5 | 21.55 | 2266310 | 20.0 |
| Benzo[e]pyrene | 24.37 | 2.1 | ng/ul | 164860 | 6 | 24.66 | 1549120 | 20.0 |