LSC Area Percent Report

Data Path : Z:\HPCHEM1\BNA_G\DATA\BG061617\
Data File : BG027512.D
Acq On : 17 Jun 2017 18:30
Operator : SJ/MA
Sample : I3599-06
Misc :
ALS Vial : 44 Sample Multiplier: 1

**Instrument :** BNA_G
**ClientSampleId :** F5A87

Integration Parameters: LSCINT.P
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 0.1 % of largest Peak
Start Thrs: 0.1 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 1

Method : Z:\HPCHEM1\BNA_G\METHODS\SOM-EPA-BG061617.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 | 7.654 | 630 | 641 | 653 | rBV | 149100 | 299179 | 3.89% | 0.387% |
| 2 | 7.830 | 664 | 671 | 685 | rVB | 115054 | 203684 | 2.65% | 0.264% |
| 3 | 8.053 | 701 | 709 | 719 | rVB | 137282 | 252438 | 3.28% | 0.327% |
| 4 | 8.517 | 776 | 788 | 797 | rVB | 163446 | 299004 | 3.89% | 0.387% |
| 5 | 9.193 | 894 | 903 | 910 | rBV | 188344 | 341914 | 4.44% | 0.442% |
| 6 | 9.681 | 977 | 986 | 1002 | rVB | 135455 | 265964 | 3.46% | 0.344% |
| 7 | 10.403 | 1101 | 1109 | 1123 | rBV | 115155 | 221813 | 2.88% | 0.287% |
| 8 | 10.944 | 1193 | 1201 | 1214 | rBV | 179178 | 346455 | 4.50% | 0.448% |
| 9 | 11.337 | 1260 | 1268 | 1274 | rBV | 273082 | 529239 | 6.88% | 0.685% |
| 10 | 11.461 | 1283 | 1289 | 1305 | rVB | 147326 | 296539 | 3.85% | 0.384% |
| 11 | 14.487 | 1798 | 1804 | 1809 | rVV | 357784 | 568900 | 7.40% | 0.736% |
| 12 | 14.534 | 1809 | 1812 | 1820 | rVB | 104721 | 153107 | 1.99% | 0.198% |
| 13 | 14.804 | 1848 | 1858 | 1877 | rBV | 377992 | 693448 | 9.01% | 0.897% |
| 14 | 15.104 | 1897 | 1909 | 1916 | rBV2 | 451201 | 764001 | 9.93% | 0.989% |
| 15 | 15.268 | 1927 | 1937 | 1952 | rBV | 146385 | 276073 | 3.59% | 0.357% |
| 16 | 16.091 | 2065 | 2077 | 2083 | rBV | 537831 | 878484 | 11.42% | 1.137% |
| 17 | 16.191 | 2089 | 2094 | 2103 | rVV | 176060 | 299155 | 3.89% | 0.387% |
| 18 | 16.784 | 2187 | 2195 | 2209 | rBV4 | 85879 | 191166 | 2.48% | 0.247% |
| 19 | 17.565 | 2324 | 2328 | 2341 | rVB6 | 36268 | 113777 | 1.48% | 0.147% |
| 20 | 17.853 | 2370 | 2377 | 2381 | rBV2 | 560205 | 922824 | 12.00% | 1.194% |
| 21 | 17.894 | 2381 | 2384 | 2389 | rVV | 219076 | 354413 | 4.61% | 0.459% |
| 22 | 17.959 | 2389 | 2395 | 2396 | rVV | 554467 | 847567 | 11.02% | 1.097% |
| 23 | 17.994 | 2396 | 2401 | 2417 | rVB | 1452104 | 2579996 | 33.54% | 3.338% |
| 24 | 18.253 | 2437 | 2445 | 2461 | rBV4 | 95780 | 366381 | 4.76% | 0.474% |
| 25 | 18.723 | 2522 | 2525 | 2529 | rVV3 | 73694 | 122675 | 1.59% | 0.159% |
| 26 | 18.770 | 2529 | 2533 | 2538 | rVV2 | 111586 | 170248 | 2.21% | 0.220% |
| 27 | 18.852 | 2538 | 2547 | 2552 | rVV | 135601 | 219952 | 2.86% | 0.285% |
| 28 | 18.923 | 2552 | 2559 | 2571 | rBV3 | 212968 | 523193 | 6.80% | 0.677% |
| 29 | 19.540 | 2660 | 2664 | 2671 | rVB | 74773 | 109727 | 1.43% | 0.142% |
| 30 | 19.616 | 2671 | 2677 | 2683 | rBV | 158082 | 332974 | 4.33% | 0.431% |
| 31 | 19.681 | 2683 | 2688 | 2697 | rVB6 | 82320 | 232609 | 3.02% | 0.301% |
| 32 | 19.775 | 2697 | 2704 | 2710 | rBV | 257237 | 460216 | 5.98% | 0.595% |
| 33 | 19.898 | 2711 | 2725 | 2730 | rBV | 3613432 | 5891068 | 76.58% | 7.623% |
| 34 | 19.939 | 2730 | 2732 | 2736 | rVV | 88935 | 131001 | 1.70% | 0.170% |

LSC Area Percent Report

Data Path : Z:\HPCHEM1\BNA_G\DATA\BG061617\
Data File : BG027512.D
Acq On : 17 Jun 2017 18:30
Operator : SJ/MA
Sample : I3599-06
Misc :
ALS Vial : 44 Sample Multiplier: 1

**Instrument :** BNA_G
**ClientSampleId :** F5A87

Integration Parameters: LSCINT.P
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 0.1 % of largest Peak
Start Thrs: 0.1 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 1

Method : Z:\HPCHEM1\BNA_G\METHODS\SOM-EPA-BG061617.M
Title : SVOA CALIBRATION

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 35 | 19.980 | 2736 | 2739 | 2745 | rVB3 | 101370 | 155059 | 2.02% | 0.201% |
| 36 | 20.074 | 2745 | 2755 | 2757 | rBV6 | 46926 | 115112 | 1.50% | 0.149% |
| 37 | 20.133 | 2759 | 2765 | 2773 | rVB3 | 165031 | 386843 | 5.03% | 0.501% |
| 38 | 20.256 | 2773 | 2786 | 2792 | rBV3 | 3508405 | 7692822 | 100.00% | 9.954% |
| 39 | 20.315 | 2792 | 2796 | 2802 | rVB | 198422 | 310569 | 4.04% | 0.402% |
| 40 | 20.421 | 2802 | 2814 | 2819 | rBV | 249646 | 507966 | 6.60% | 0.657% |
| 41 | 20.468 | 2819 | 2822 | 2831 | rVB6 | 73595 | 161189 | 2.10% | 0.209% |
| 42 | 20.568 | 2831 | 2839 | 2846 | rBV3 | 446194 | 1134571 | 14.75% | 1.468% |
| 43 | 20.638 | 2847 | 2851 | 2855 | rVV4 | 53743 | 103153 | 1.34% | 0.133% |
| 44 | 20.732 | 2855 | 2867 | 2876 | rVB2 | 472117 | 1551988 | 20.17% | 2.008% |
| 45 | 20.838 | 2877 | 2885 | 2888 | rBV2 | 180090 | 341345 | 4.44% | 0.442% |
| 46 | 20.903 | 2888 | 2896 | 2900 | rVV2 | 456737 | 1097969 | 14.27% | 1.421% |
| 47 | 20.938 | 2900 | 2902 | 2906 | rVV | 174226 | 238926 | 3.11% | 0.309% |
| 48 | 20.973 | 2906 | 2908 | 2914 | rVB2 | 102869 | 164386 | 2.14% | 0.213% |
| 49 | 21.050 | 2915 | 2921 | 2926 | rBV | 373128 | 684043 | 8.89% | 0.885% |
| 50 | 21.102 | 2926 | 2930 | 2941 | rVB3 | 261347 | 508730 | 6.61% | 0.658% |
| 51 | 21.196 | 2941 | 2946 | 2962 | rVB7 | 93795 | 330686 | 4.30% | 0.428% |
| 52 | 21.320 | 2962 | 2967 | 2971 | rBV3 | 88195 | 181425 | 2.36% | 0.235% |
| 53 | 21.508 | 2994 | 2999 | 3002 | rBV5 | 60413 | 100448 | 1.31% | 0.130% |
| 54 | 21.561 | 3002 | 3008 | 3015 | rVB | 462929 | 813715 | 10.58% | 1.053% |
| 55 | 21.667 | 3022 | 3026 | 3033 | rVB2 | 82510 | 137561 | 1.79% | 0.178% |
| 56 | 21.766 | 3033 | 3043 | 3047 | rVV3 | 501401 | 1198855 | 15.58% | 1.551% |
| 57 | 21.813 | 3047 | 3051 | 3056 | rVV | 372240 | 716971 | 9.32% | 0.928% |
| 58 | 21.872 | 3056 | 3061 | 3066 | rVV2 | 483038 | 957580 | 12.45% | 1.239% |
| 59 | 21.931 | 3066 | 3071 | 3084 | rVB2 | 322163 | 801653 | 10.42% | 1.037% |
| 60 | 22.072 | 3084 | 3095 | 3103 | rBV | 162604 | 536012 | 6.97% | 0.694% |
| 61 | 22.219 | 3108 | 3120 | 3128 | rBV2 | 2080363 | 6071593 | 78.93% | 7.856% |
| 62 | 22.295 | 3128 | 3133 | 3146 | rVV | 1797007 | 3928838 | 51.07% | 5.084% |
| 63 | 22.395 | 3146 | 3150 | 3156 | rVB7 | 87782 | 173713 | 2.26% | 0.225% |
| 64 | 22.466 | 3156 | 3162 | 3167 | rBV4 | 121412 | 264609 | 3.44% | 0.342% |
| 65 | 22.542 | 3169 | 3175 | 3181 | rBV5 | 101181 | 300594 | 3.91% | 0.389% |
| 66 | 22.612 | 3182 | 3187 | 3193 | rVB | 214679 | 484777 | 6.30% | 0.627% |
| 67 | 22.689 | 3193 | 3200 | 3206 | rBV2 | 215970 | 477055 | 6.20% | 0.617% |
| 68 | 22.759 | 3207 | 3212 | 3225 | rVB3 | 147772 | 438782 | 5.70% | 0.568% |
| 69 | 22.894 | 3225 | 3235 | 3241 | rBV9 | 60930 | 205081 | 2.67% | 0.265% |
| 70 | 22.959 | 3241 | 3246 | 3251 | rBV3 | 78725 | 169096 | 2.20% | 0.219% |
| 71 | 23.053 | 3251 | 3262 | 3269 | rVV | 363276 | 1056367 | 13.73% | 1.367% |

LSC Area Percent Report

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Acq On : 17 Jun 2017 18:30
Operator : SJ/MA
Sample : I3599-06
Misc :
ALS Vial : 44 Sample Multiplier: 1

**Instrument :** BNA_G
**ClientSampleId :** F5A87

Integration Parameters: LSCINT.P
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 0.1 % of largest Peak
Start Thrs: 0.1 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 1

Method : Z:\HPCHEM1\BNA_G\METHODS\SOM-EPA-BG061617.M
Title : SVOA CALIBRATION

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 72 | 23.130 | 3269 | 3275 | 3284 | rVB2 | 196691 | 457556 | 5.95% | 0.592% |
| 73 | 23.229 | 3285 | 3292 | 3299 | rBV3 | 96555 | 222293 | 2.89% | 0.288% |
| 74 | 23.359 | 3307 | 3314 | 3333 | rVB7 | 147407 | 621924 | 8.08% | 0.805% |
| 75 | 23.517 | 3334 | 3341 | 3356 | rVB4 | 124174 | 339692 | 4.42% | 0.440% |
| 76 | 23.811 | 3381 | 3391 | 3396 | rBV | 128061 | 346868 | 4.51% | 0.449% |
| 77 | 24.011 | 3418 | 3425 | 3430 | rBV3 | 41548 | 112892 | 1.47% | 0.146% |
| 78 | 24.081 | 3431 | 3437 | 3448 | rVB5 | 81463 | 290107 | 3.77% | 0.375% |
| 79 | 24.299 | 3462 | 3474 | 3491 | rVB6 | 120256 | 553882 | 7.20% | 0.717% |
| 80 | 24.498 | 3494 | 3508 | 3517 | rBV6 | 57221 | 226986 | 2.95% | 0.294% |
| 81 | 24.739 | 3535 | 3549 | 3557 | rBV | 1507111 | 5966296 | 77.56% | 7.720% |
| 82 | 25.016 | 3588 | 3596 | 3616 | rVB | 138662 | 414132 | 5.38% | 0.536% |
| 83 | 25.251 | 3627 | 3636 | 3651 | rBV5 | 99972 | 491458 | 6.39% | 0.636% |
| 84 | 25.562 | 3677 | 3689 | 3697 | rBV | 622113 | 2053362 | 26.69% | 2.657% |
| 85 | 25.644 | 3697 | 3703 | 3709 | rVV3 | 294767 | 881621 | 11.46% | 1.141% |
| 86 | 25.732 | 3709 | 3718 | 3731 | rVB | 754370 | 2416289 | 31.41% | 3.126% |
| 87 | 25.897 | 3731 | 3746 | 3754 | rBV3 | 297253 | 1257041 | 16.34% | 1.627% |
| 88 | 25.991 | 3754 | 3762 | 3778 | rVB3 | 234671 | 912855 | 11.87% | 1.181% |
| 89 | 26.778 | 3890 | 3896 | 3906 | rVB4 | 46446 | 131972 | 1.72% | 0.171% |
| 90 | 26.878 | 3907 | 3913 | 3931 | rVB5 | 42219 | 170653 | 2.22% | 0.221% |
| 91 | 27.148 | 3941 | 3959 | 3968 | rBV5 | 87285 | 371803 | 4.83% | 0.481% |
| 92 | 28.235 | 4131 | 4144 | 4156 | rBV9 | 19646 | 104271 | 1.36% | 0.135% |
| 93 | 28.500 | 4182 | 4189 | 4207 | rVB8 | 47276 | 232380 | 3.02% | 0.301% |
| 94 | 28.717 | 4214 | 4226 | 4235 | rBV4 | 71289 | 294104 | 3.82% | 0.381% |
| 95 | 29.581 | 4349 | 4373 | 4374 | rBV3 | 69190 | 312737 | 4.07% | 0.405% |
| 96 | 30.104 | 4446 | 4462 | 4489 | rVB3 | 300777 | 1850599 | 24.06% | 2.395% |
| 97 | 30.356 | 4492 | 4505 | 4522 | rVB5 | 40497 | 200009 | 2.60% | 0.259% |
| 98 | 30.621 | 4532 | 4550 | 4552 | rBV7 | 93214 | 364713 | 4.74% | 0.472% |
| 99 | 30.826 | 4573 | 4585 | 4596 | rBV4 | 42872 | 206467 | 2.68% | 0.267% |
| 100 | 31.414 | 4668 | 4685 | 4707 | rVB3 | 125084 | 719976 | 9.36% | 0.932% |

Sum of corrected areas: 77284204

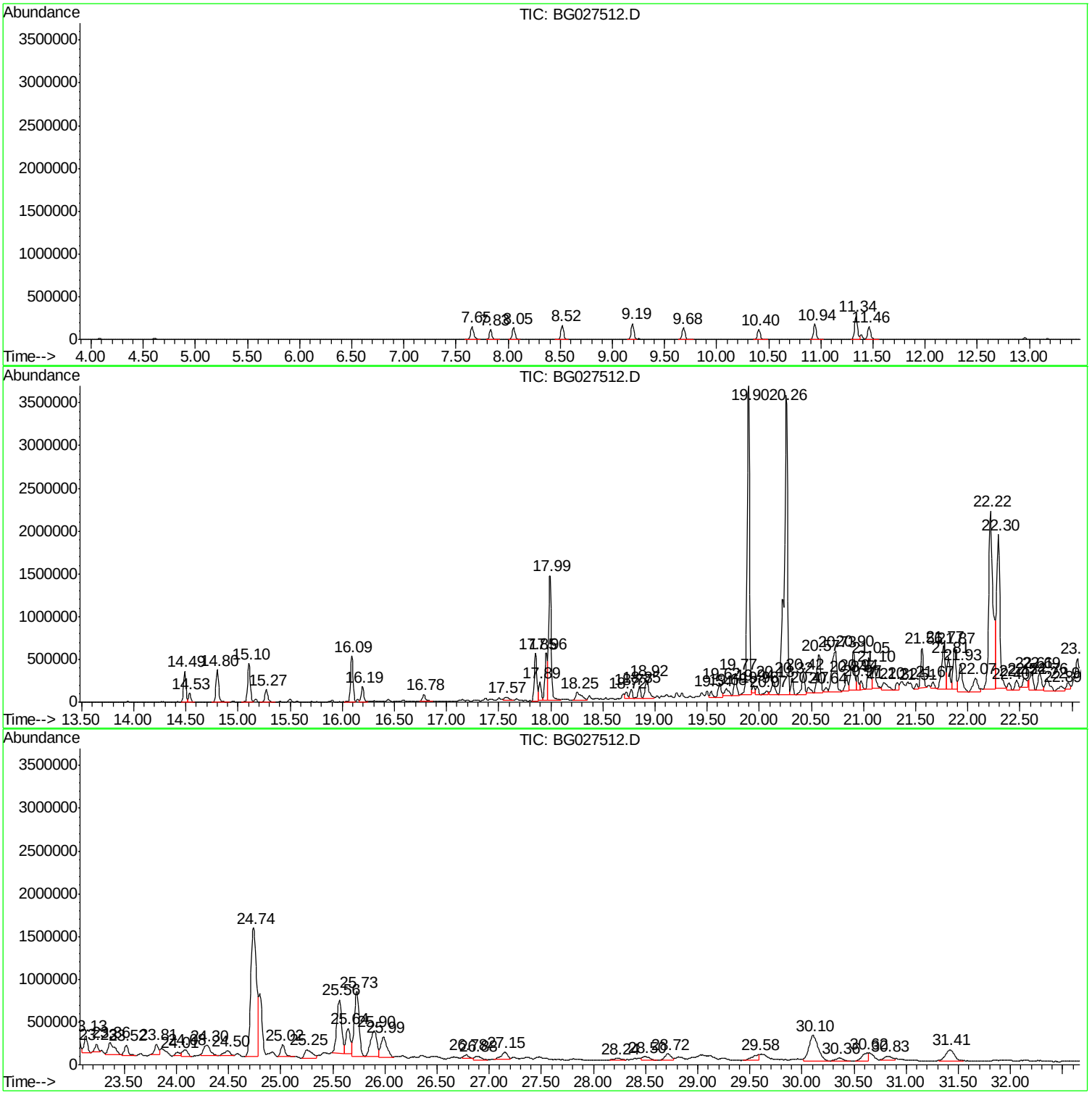
LSC Report - Integrated Chromatogram

Data Path : Z:\HPCHEM1\BNA_G\DATA\BG061617\
Data File : BG027512.D
Acq On : 17 Jun 2017 18:30
Operator : SJ/MA
Sample : I3599-06
Misc :
ALS Vial : 44 Sample Multiplier: 1

**Instrument :** BNA_G
**ClientSampleId :** F5A87

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM-EPA-BG061617.M
Quant Title : SVOA CALIBRATION

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



Data Path : Z:\HPCHEM1\BNA_G\DATA\BG061617\
Data File : BG027512.D
Acq On : 17 Jun 2017 18:30
Operator : SJ/MA
Sample : I3599-06
Misc :
ALS Vial : 44 Sample Multiplier: 1

**Instrument :** BNA_G
**ClientSampleId :** F5A87

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM-EPA-BG061617.M
Quant Title : SVOA CALIBRATION

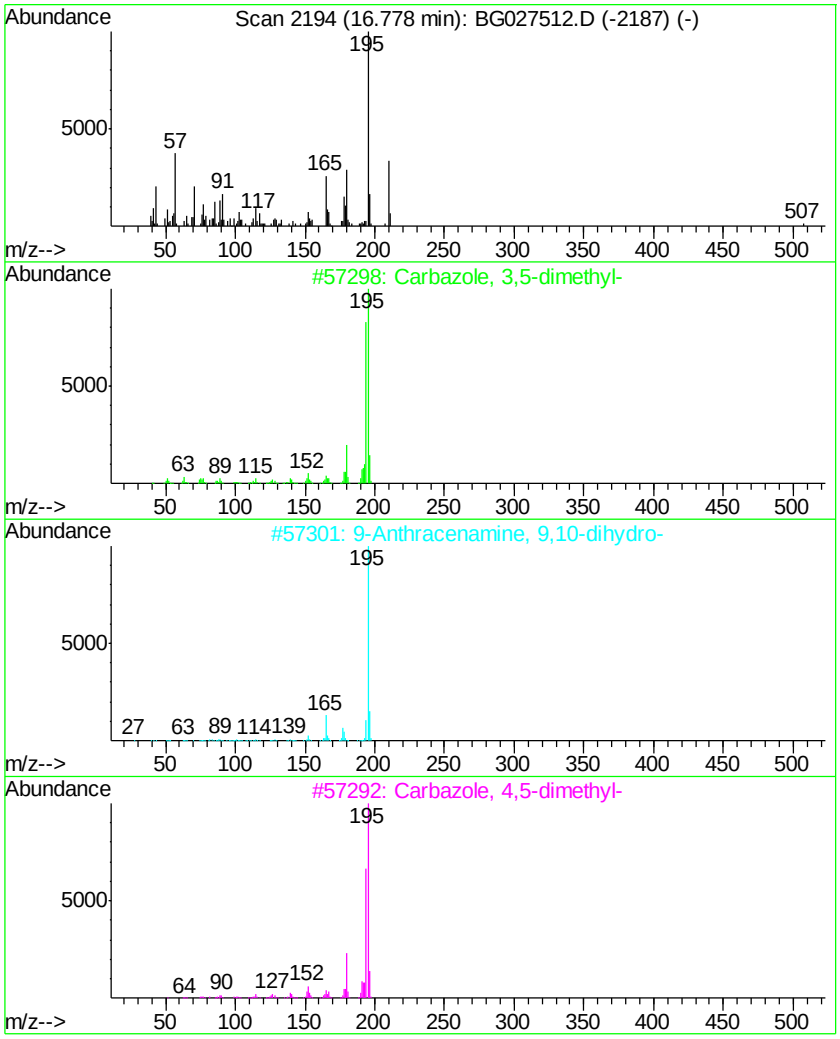
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

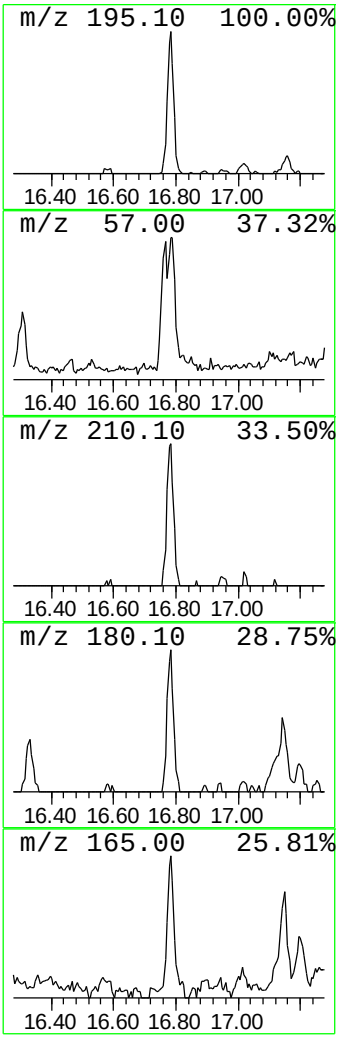
**********

Peak Number 1 Carbazole, 3,5-dimethyl- Concentration Rank 17

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 16.78 | 4.14 ng/ul | 191166 | Phenanthrene-d10 | 17.85 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Carbazole, 3,5-dimethyl- | 195 | C14H13N | 078787-81-2 | 58 |
| 2 | 9-Anthracenamine, 9,10-dihydro- | 195 | C14H13N | 097825-91-7 | 53 |
| 3 | Carbazole, 4,5-dimethyl- | 195 | C14H13N | 018992-66-0 | 52 |
| 4 | Naphthalene, 1,2,3-trimethyl-4-p... | 210 | C16H18 | 026137-53-1 | 52 |
| 5 | 2,4,6-Trimethoxyacetophenone | 210 | C11H14O4 | 000832-58-6 | 47 |



Data Path : Z:\HPCHEM1\BNA_G\DATA\BG061617\
Data File : BG027512.D
Acq On : 17 Jun 2017 18:30
Operator : SJ/MA
Sample : I3599-06
Misc :
ALS Vial : 44 Sample Multiplier: 1

**Instrument :** BNA_G
**ClientSampleId :** F5A87

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM-EPA-BG061617.M
Quant Title : SVOA CALIBRATION

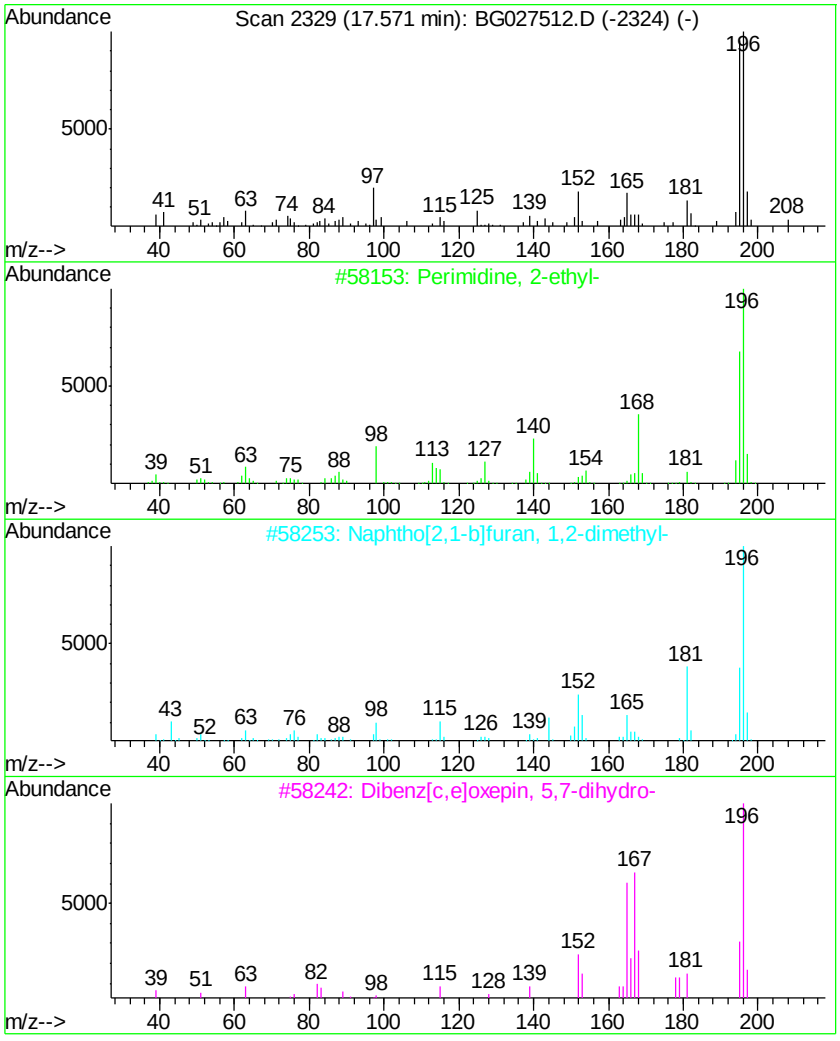
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

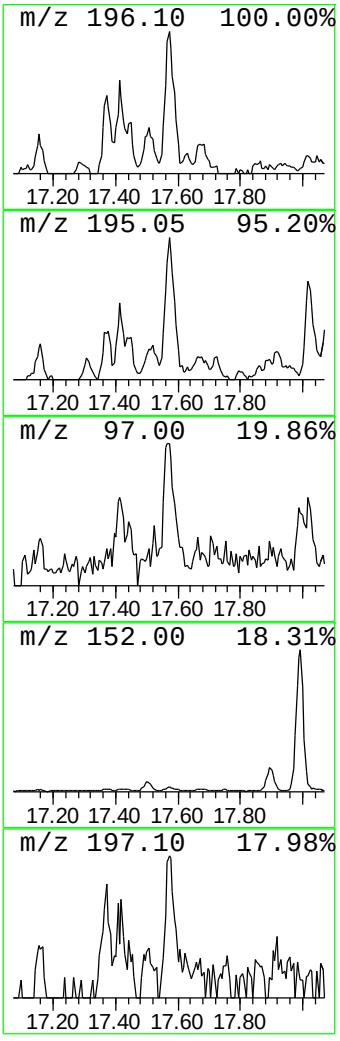
**********

Peak Number 2 Perimidine, 2-ethyl- Concentration Rank 33

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 17.57 | 2.47 ng/ul | 113777 | Phenanthrene-d10 | 17.85 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Perimidine, 2-ethyl- | 196 | C13H12N2 | 028478-13-9 | 59 |
| 2 | Naphtho[2,1-b]furan, 1,2-dimethyl- | 196 | C14H12O | 129812-23-3 | 43 |
| 3 | Dibenz[c,e]oxepin, 5,7-dihydro- | 196 | C14H12O | 001136-22-7 | 43 |
| 4 | Phenol, 4-(2-phenylethenyl)-, (E)- | 196 | C14H12O | 006554-98-9 | 38 |
| 5 | Benzo[c]cinnoline, 5-oxide | 196 | C12H8N2O | 006141-98-6 | 38 |



Data Path : Z:\HPCHEM1\BNA_G\DATA\BG061617\
Data File : BG027512.D
Acq On : 17 Jun 2017 18:30
Operator : SJ/MA
Sample : I3599-06
Misc :
ALS Vial : 44 Sample Multiplier: 1

**Instrument :** BNA_G
**ClientSampleId :** F5A87

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM-EPA-BG061617.M
Quant Title : SVOA CALIBRATION

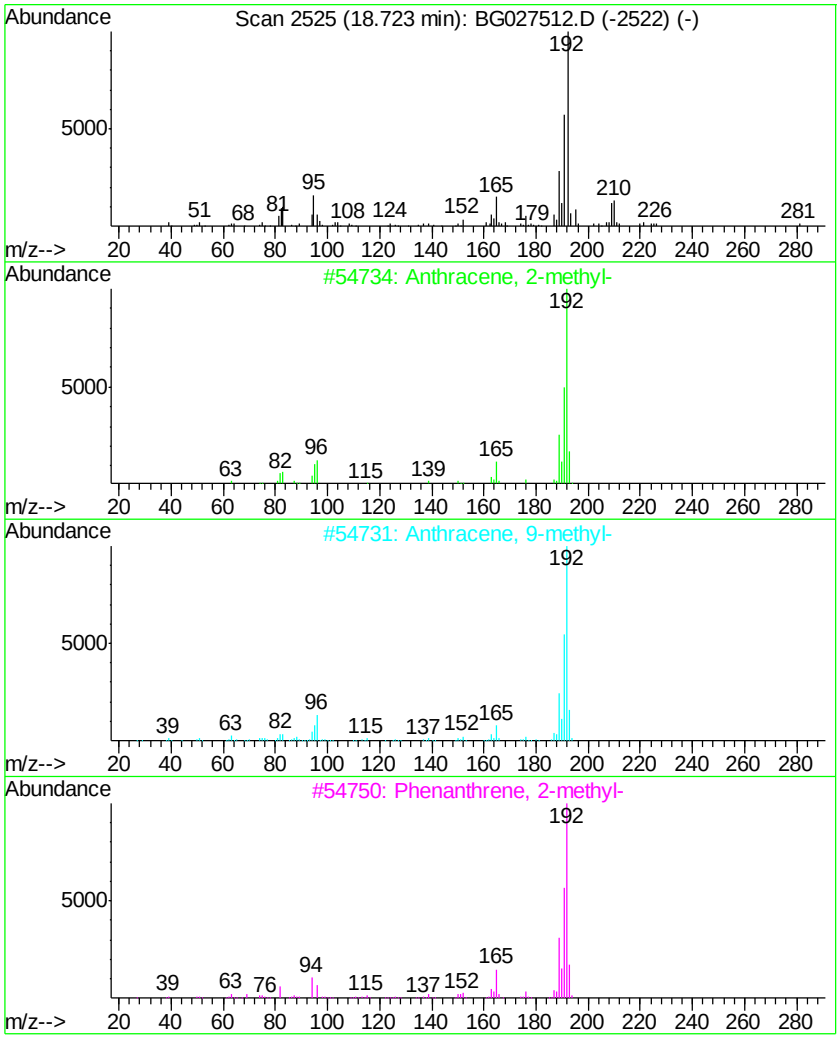
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

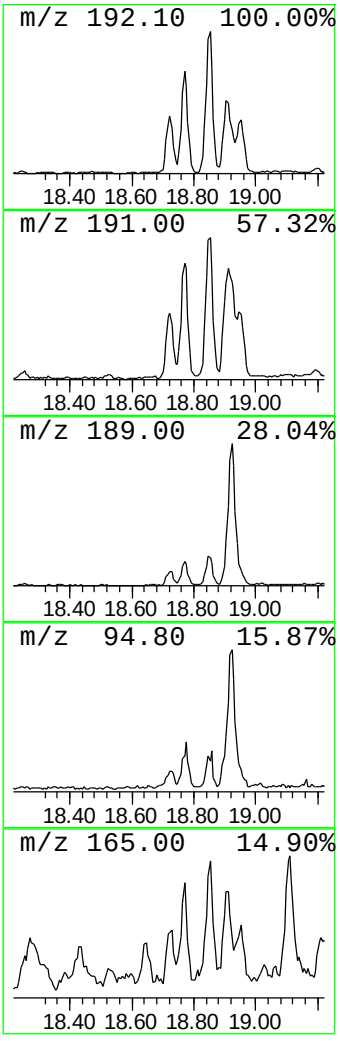
**********

Peak Number 3 Anthracene, 2-methyl- Concentration Rank 31

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 18.72 | 2.66 ng/ul | 122675 | Phenanthrene-d10 | 17.85 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Anthracene, 2-methyl- | 192 | C15H12 | 000613-12-7 | 86 |
| 2 | Anthracene, 9-methyl- | 192 | C15H12 | 000779-02-2 | 86 |
| 3 | Phenanthrene, 2-methyl- | 192 | C15H12 | 002531-84-2 | 83 |
| 4 | Anthracene, 1-methyl- | 192 | C15H12 | 000610-48-0 | 70 |
| 5 | Anthracene, 1-methyl- | 192 | C15H12 | 000610-48-0 | 70 |



Data Path : Z:\HPCHEM1\BNA_G\DATA\BG061617\
Data File : BG027512.D
Acq On : 17 Jun 2017 18:30
Operator : SJ/MA
Sample : I3599-06
Misc :
ALS Vial : 44 Sample Multiplier: 1

**Instrument :** BNA_G
**ClientSampleId :** F5A87

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM-EPA-BG061617.M
Quant Title : SVOA CALIBRATION

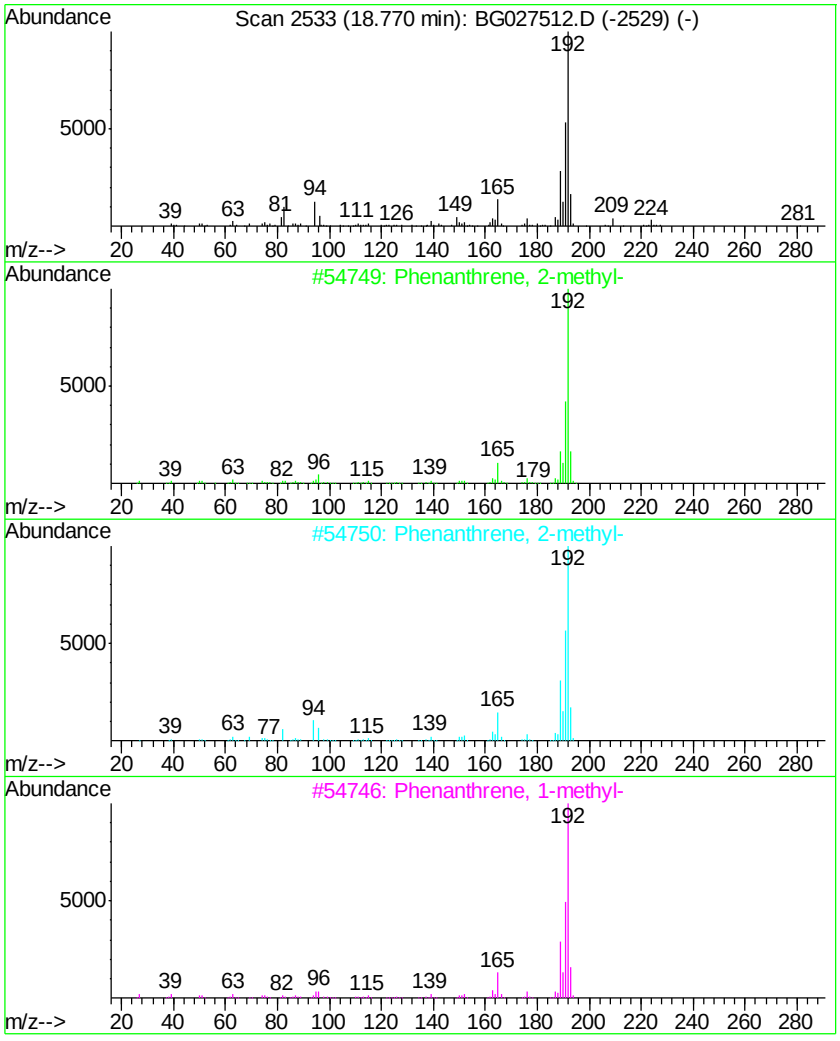
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

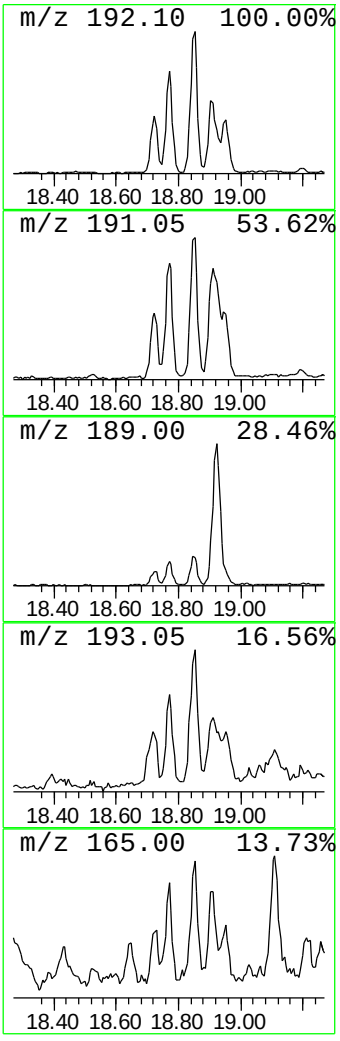
**********

Peak Number 4 Phenanthrene, 2-methyl- Concentration Rank 21

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 18.77 | 3.69 ng/ul | 170248 | Phenanthrene-d10 | 17.85 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Phenanthrene, 2-methyl- | 192 | C15H12 | 002531-84-2 | 97 |
| 2 | Phenanthrene, 2-methyl- | 192 | C15H12 | 002531-84-2 | 97 |
| 3 | Phenanthrene, 1-methyl- | 192 | C15H12 | 000832-69-9 | 96 |
| 4 | Anthracene, 2-methyl- | 192 | C15H12 | 000613-12-7 | 96 |
| 5 | Phenanthrene, 2-methyl- | 192 | C15H12 | 002531-84-2 | 95 |



Data Path : Z:\HPCHEM1\BNA_G\DATA\BG061617\
Data File : BG027512.D
Acq On : 17 Jun 2017 18:30
Operator : SJ/MA
Sample : I3599-06
Misc :
ALS Vial : 44 Sample Multiplier: 1

**Instrument :** BNA_G
**ClientSampleId :** F5A87

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM-EPA-BG061617.M
Quant Title : SVOA CALIBRATION

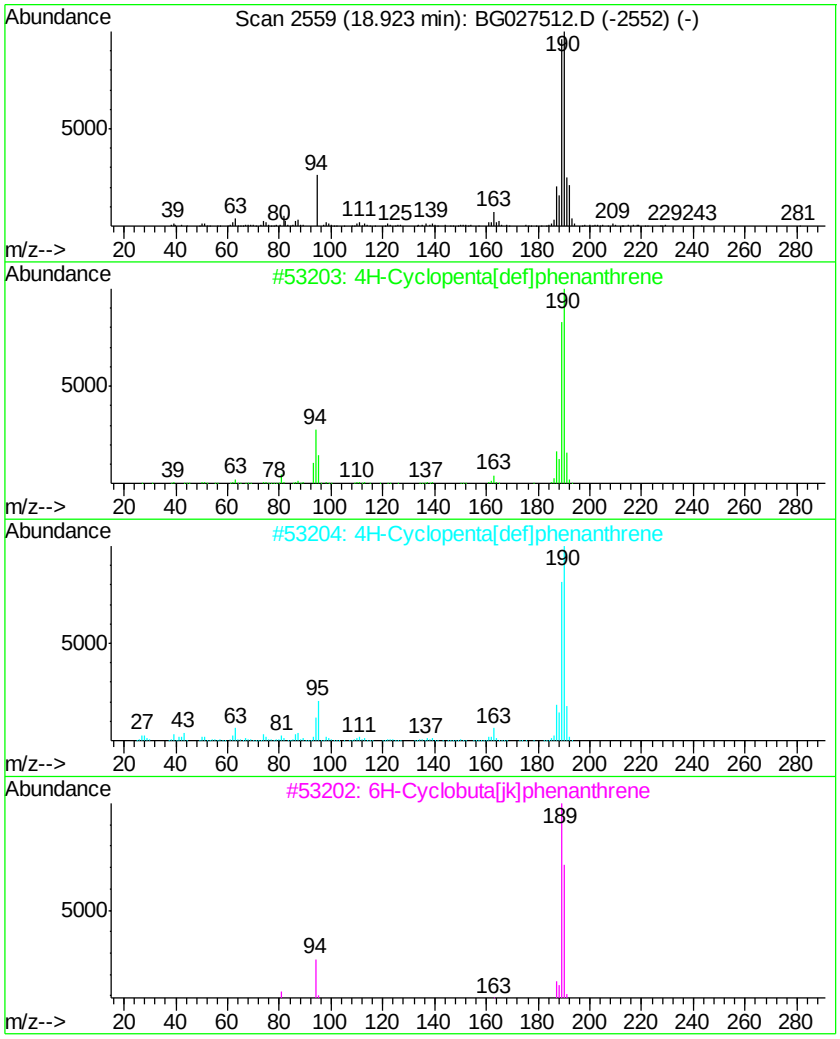
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

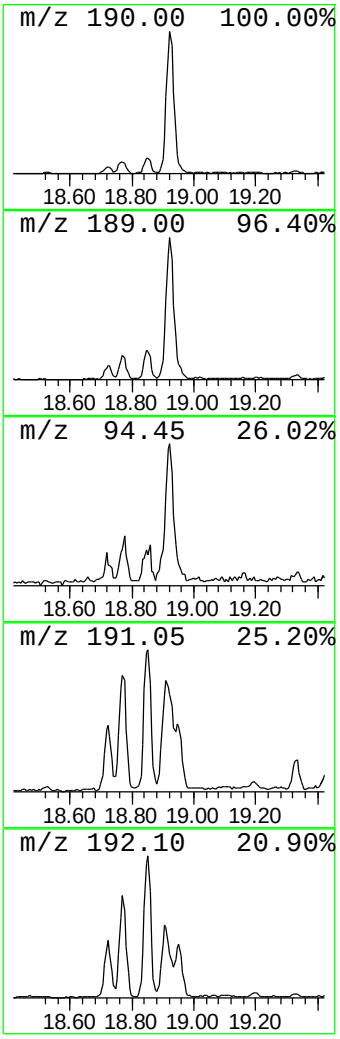
**********

Peak Number 6 4H-Cyclopenta[def]phenanthrene Concentration Rank 3

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 18.92 | 11.34 ng/ul | 523193 | Phenanthrene-d10 | 17.85 |

| 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 | 89 |
| 3 | 6H-Cyclobuta[jk]phenanthrene | 190 | C15H10 | 083469-43-6 | 50 |
| 4 | 2,2'-Bis(4,5-dimethylimidazole) | 190 | C10H14N4 | 069286-06-2 | 45 |
| 5 | 4H-Cyclopenta[def]phenanthrene | 190 | C15H10 | 000203-64-5 | 38 |



Data Path : Z:\HPCHEM1\BNA_G\DATA\BG061617\
Data File : BG027512.D
Acq On : 17 Jun 2017 18:30
Operator : SJ/MA
Sample : I3599-06
Misc :
ALS Vial : 44 Sample Multiplier: 1

**Instrument :** BNA_G
**ClientSampleId :** F5A87

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM-EPA-BG061617.M
Quant Title : SVOA CALIBRATION

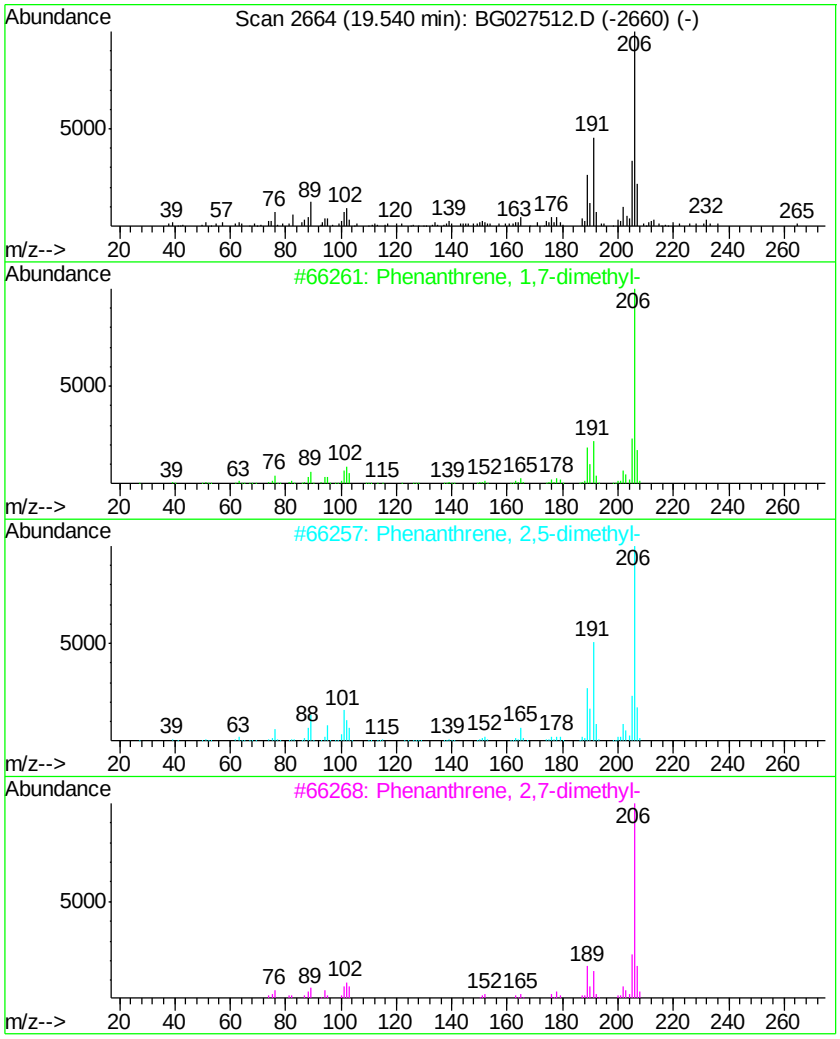
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

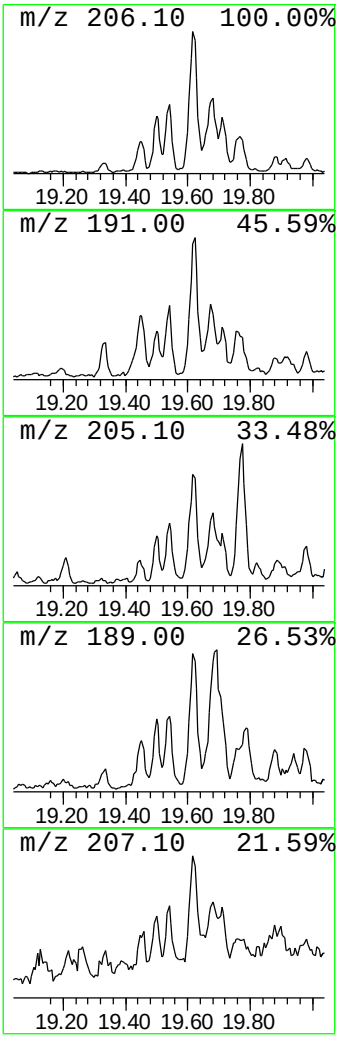
**********

Peak Number 7 Phenanthrene, 1,7-dimethyl- Concentration Rank 34

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 19.54 | 2.38 ng/ul | 109727 | Phenanthrene-d10 | 17.85 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Phenanthrene, 1,7-dimethyl- | 206 | C16H14 | 000483-87-4 | 93 |
| 2 | Phenanthrene, 2,5-dimethyl- | 206 | C16H14 | 003674-66-6 | 91 |
| 3 | Phenanthrene, 2,7-dimethyl- | 206 | C16H14 | 001576-69-8 | 89 |
| 4 | 9,10-Dimethylanthracene | 206 | C16H14 | 000781-43-1 | 87 |
| 5 | di-p-Tolylacetylene | 206 | C16H14 | 002789-88-0 | 87 |



Data Path : Z:\HPCHEM1\BNA_G\DATA\BG061617\
Data File : BG027512.D
Acq On : 17 Jun 2017 18:30
Operator : SJ/MA
Sample : I3599-06
Misc :
ALS Vial : 44 Sample Multiplier: 1

**Instrument :** BNA_G
**ClientSampleId :** F5A87

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM-EPA-BG061617.M
Quant Title : SVOA CALIBRATION

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

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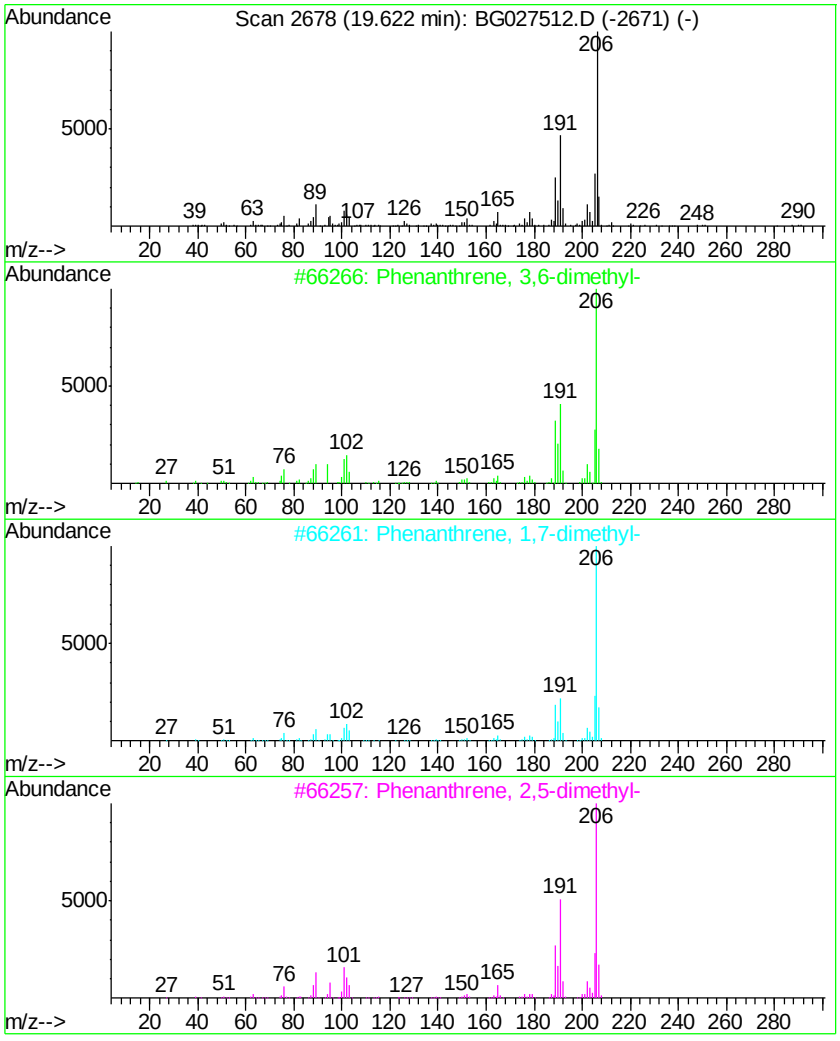
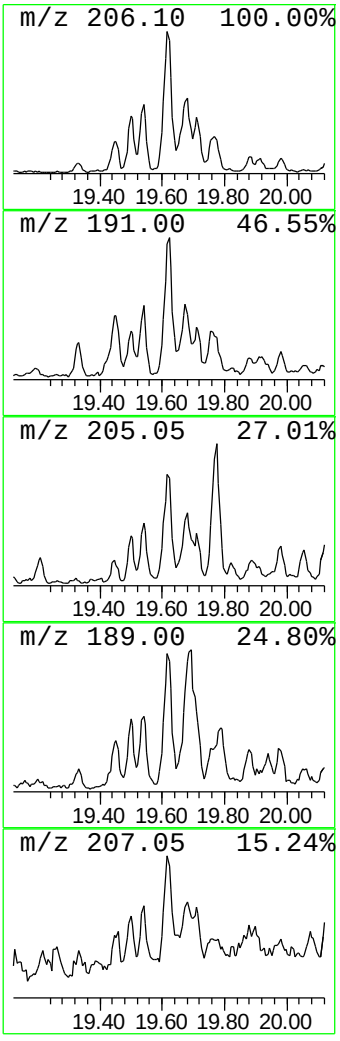
Peak Number 8 Phenanthrene, 3,6-dimethyl- Concentration Rank 7

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 19.62 | 7.22 ng/ul | 332974 | Phenanthrene-d10 | 17.85 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Phenanthrene, 3,6-dimethyl- | 206 | C16H14 | 001576-67-6 | 94 |
| 2 | Phenanthrene, 1,7-dimethyl- | 206 | C16H14 | 000483-87-4 | 93 |
| 3 | Phenanthrene, 2,5-dimethyl- | 206 | C16H14 | 003674-66-6 | 93 |
| 4 | Phenanthrene, 2,3-dimethyl- | 206 | C16H14 | 003674-65-5 | 93 |
| 5 | di-p-Tolylacetylene | 206 | C16H14 | 002789-88-0 | 91 |



Data Path : Z:\HPCHEM1\BNA_G\DATA\BG061617\
Data File : BG027512.D
Acq On : 17 Jun 2017 18:30
Operator : SJ/MA
Sample : I3599-06
Misc :
ALS Vial : 44 Sample Multiplier: 1

**Instrument :** BNA_G
**ClientSampleId :** F5A87

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM-EPA-BG061617.M
Quant Title : SVOA CALIBRATION

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

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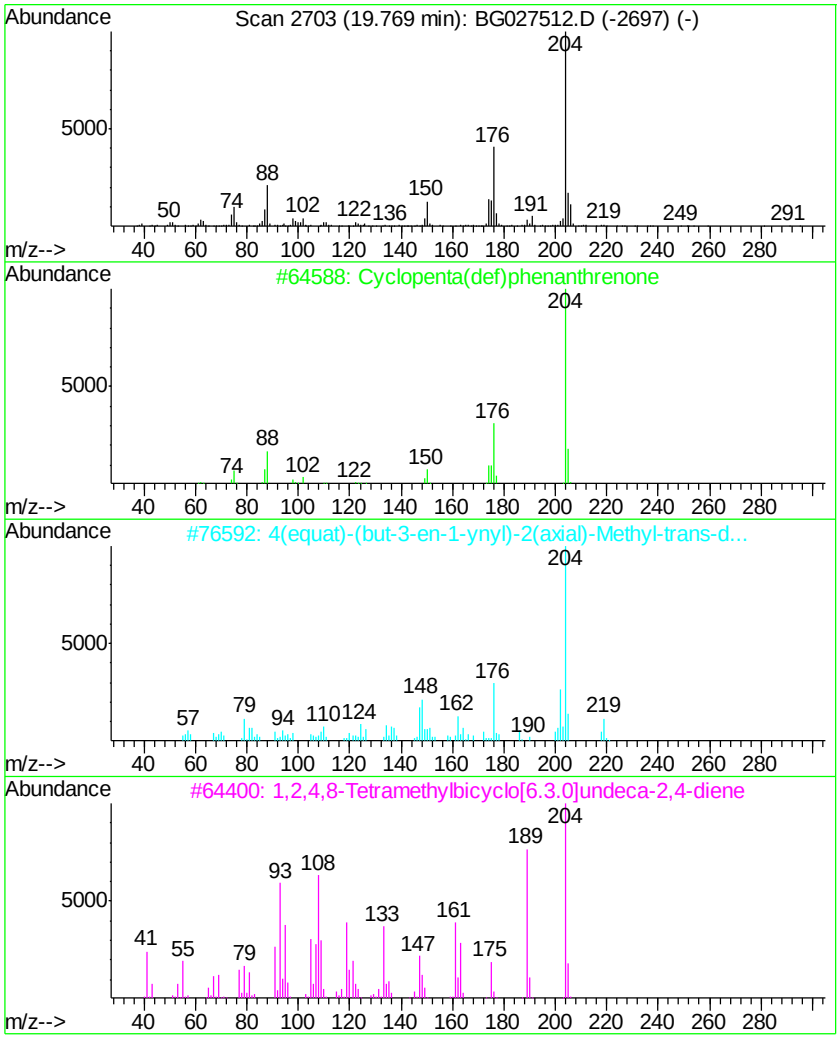
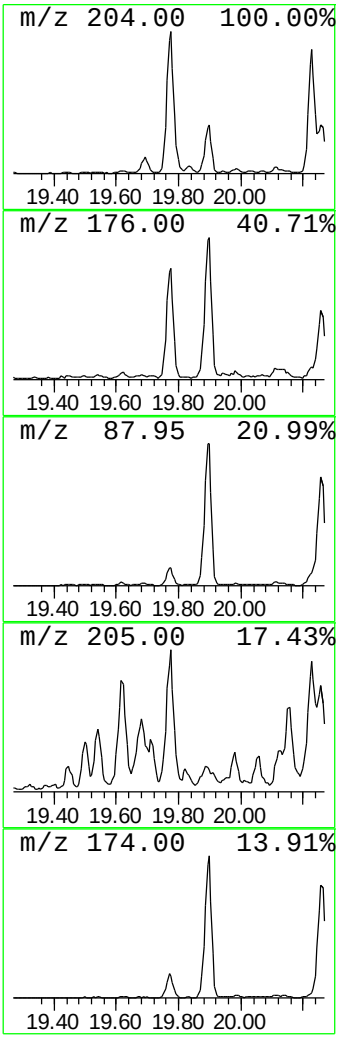
Peak Number 10 Cyclopenta(def)phenanthrenone Concentration Rank 4

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 19.77 | 9.97 ng/ul | 460216 | Phenanthrene-d10 | 17.85 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Cyclopenta(def)phenanthrenone | 204 | C15H8O | 005737-13-3 | 97 |
| 2 | 4(equat)-(but-3-en-1-ynyl)-2(axi... | 219 | C14H21NO | 038423-22-2 | 50 |
| 3 | 1,2,4,8-Tetramethylbicyclo[6.3.0... | 204 | C15H24 | 137235-51-9 | 45 |
| 4 | N-(4-Chloro-phenyl)-2-(3,4-dihyd... | 330 | C17H15ClN2OS | 1000296-34-3 | 45 |
| 5 | [1,1'-Biphenyl]-2,2'-dicarbonitrile | 204 | C14H8N2 | 004341-02-0 | 43 |



Data Path : Z:\HPCHEM1\BNA_G\DATA\BG061617\
Data File : BG027512.D
Acq On : 17 Jun 2017 18:30
Operator : SJ/MA
Sample : I3599-06
Misc :
ALS Vial : 44 Sample Multiplier: 1

**Instrument :** BNA_G
**ClientSampleId :** F5A87

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM-EPA-BG061617.M
Quant Title : SVOA CALIBRATION

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

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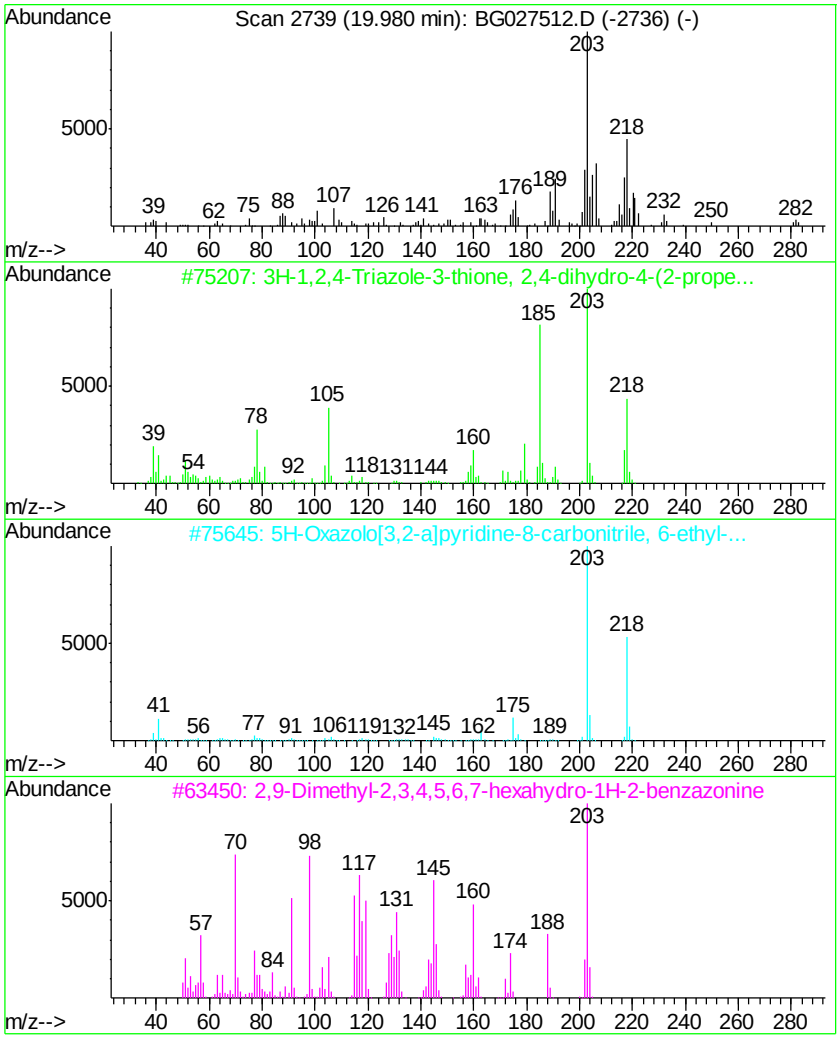
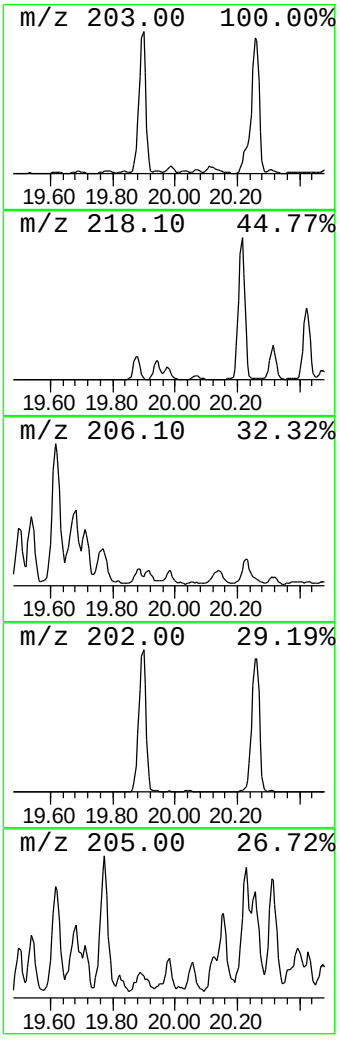
Peak Number 11 unknown-01 Concentration Rank 25

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 19.98 | 3.36 ng/ul | 155059 | Phenanthrene-d10 | 17.85 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 3H-1,2,4-Triazole-3-thione, 2,4-... | 218 | C10H10N4S | 091813-63-7 | 47 |
| 2 | 5H-Oxazolo[3,2-a]pyridine-8-carb... | 218 | C12H14N2O2 | 1000337-58-3 | 43 |
| 3 | 2,9-Dimethyl-2,3,4,5,6,7-hexahyd... | 203 | C14H21N | 077581-11-4 | 42 |
| 4 | Quinolin-8-amine, 5,6-dimethoxy-... | 218 | C12H14N2O2 | 064992-95-6 | 38 |
| 5 | 9-Anthracenecarbonitrile | 203 | C15H9N | 001210-12-4 | 38 |



Data Path : Z:\HPCHEM1\BNA_G\DATA\BG061617\
Data File : BG027512.D
Acq On : 17 Jun 2017 18:30
Operator : SJ/MA
Sample : I3599-06
Misc :
ALS Vial : 44 Sample Multiplier: 1

**Instrument :** BNA_G
**ClientSampleId :** F5A87

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM-EPA-BG061617.M
Quant Title : SVOA CALIBRATION

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

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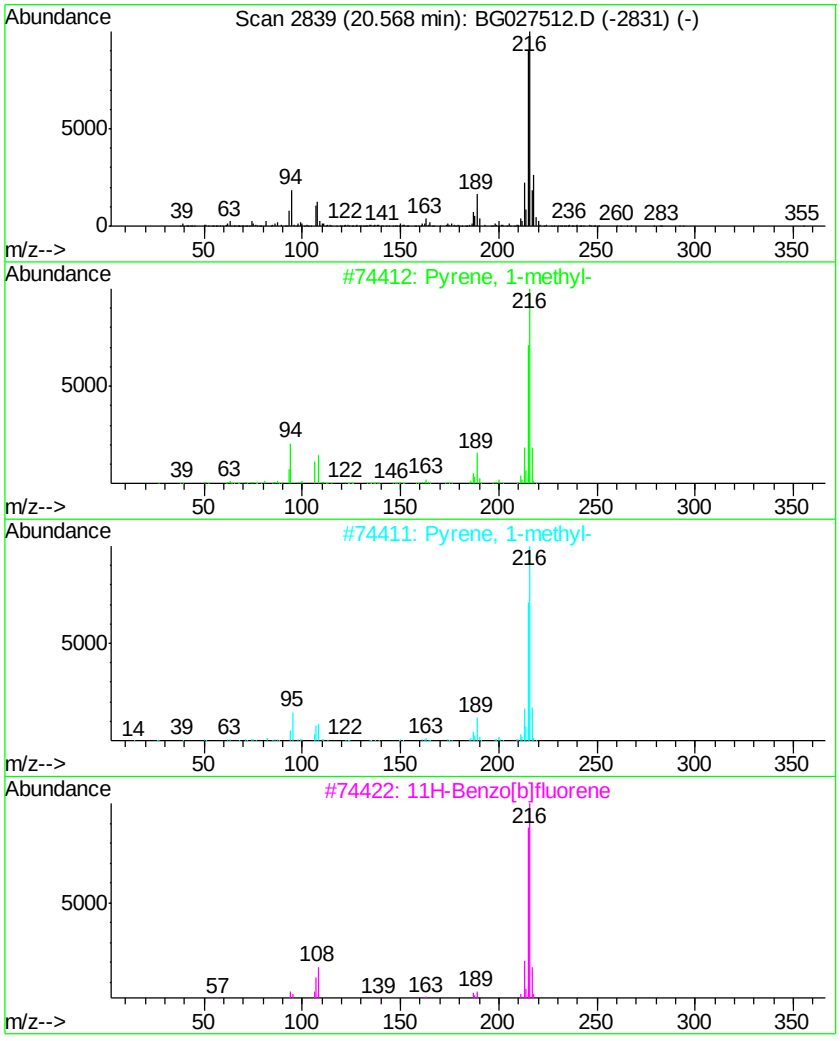
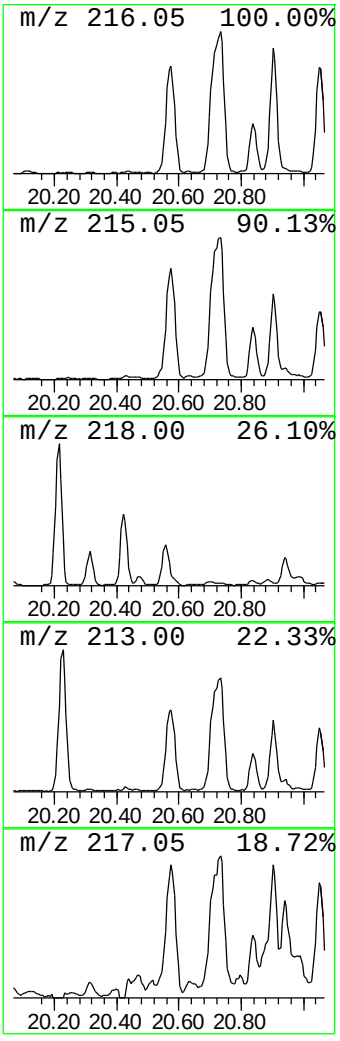
Peak Number 12 Pyrene, 1-methyl- Concentration Rank 19

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 20.57 | 3.74 ng/ul | 1134570 | Chrysene-d12 | 22.24 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Pyrene, 1-methyl- | 216 | C17H12 | 002381-21-7 | 96 |
| 2 | Pyrene, 1-methyl- | 216 | C17H12 | 002381-21-7 | 96 |
| 3 | 11H-Benzo[b]fluorene | 216 | C17H12 | 000243-17-4 | 93 |
| 4 | 11H-Benzo[b]fluorene | 216 | C17H12 | 000243-17-4 | 87 |
| 5 | Fluoranthene, 2-methyl- | 216 | C17H12 | 033543-31-6 | 81 |



Data Path : Z:\HPCHEM1\BNA_G\DATA\BG061617\
Data File : BG027512.D
Acq On : 17 Jun 2017 18:30
Operator : SJ/MA
Sample : I3599-06
Misc :
ALS Vial : 44 Sample Multiplier: 1

**Instrument :** BNA_G
**ClientSampleId :** F5A87

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM-EPA-BG061617.M
Quant Title : SVOA CALIBRATION

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

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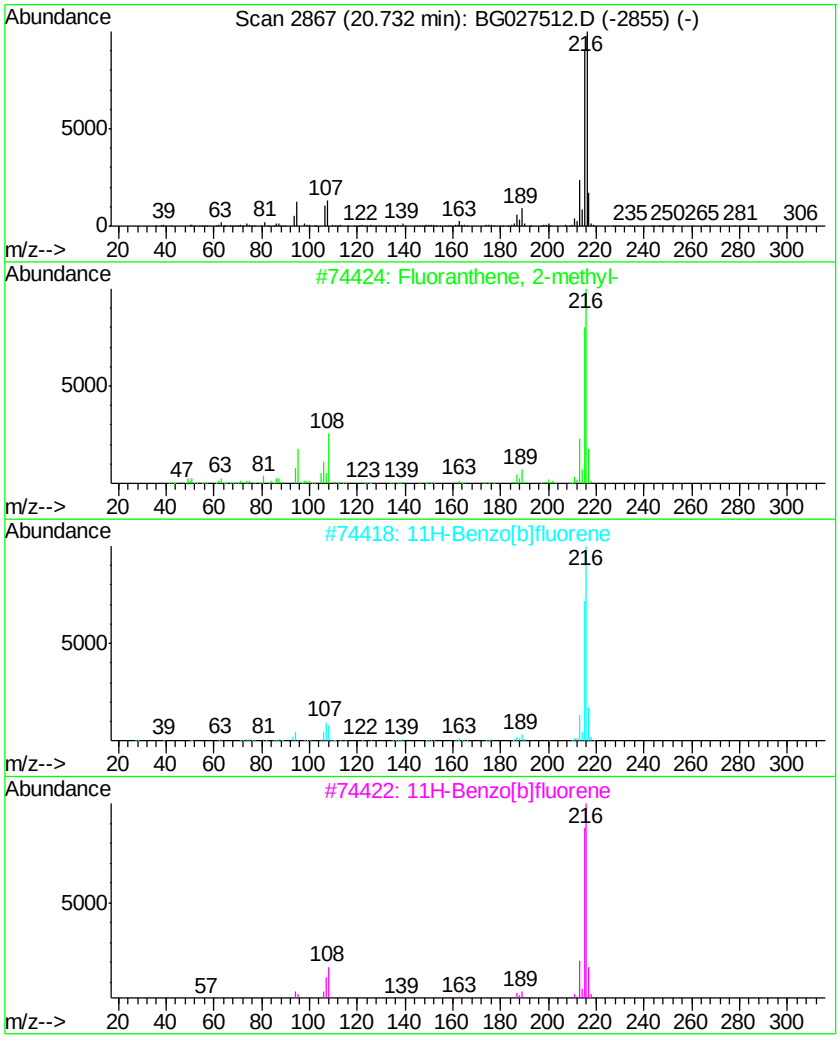
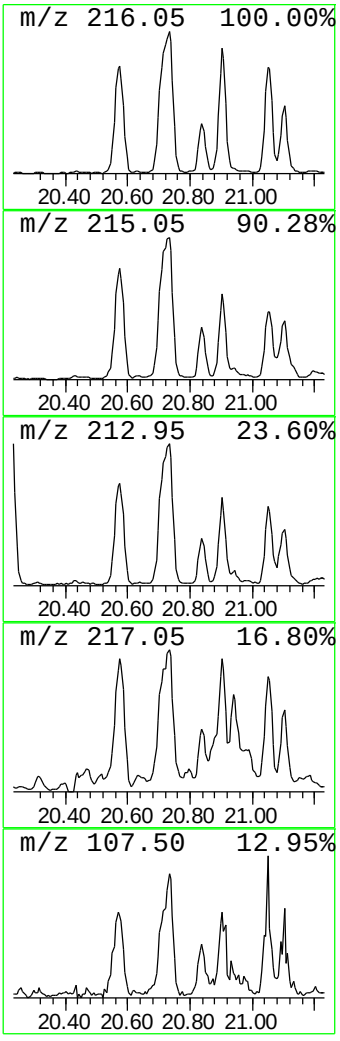
Peak Number 13 Fluoranthene, 2-methyl- Concentration Rank 11

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 20.73 | 5.11 ng/ul | 1551990 | Chrysene-d12 | 22.24 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Fluoranthene, 2-methyl- | 216 | C17H12 | 033543-31-6 | 95 |
| 2 | 11H-Benzo[b]fluorene | 216 | C17H12 | 000243-17-4 | 94 |
| 3 | 11H-Benzo[b]fluorene | 216 | C17H12 | 000243-17-4 | 93 |
| 4 | Pyrene, 1-methyl- | 216 | C17H12 | 002381-21-7 | 90 |
| 5 | 11H-Benzo[a]fluorene | 216 | C17H12 | 000238-84-6 | 90 |



Data Path : Z:\HPCHEM1\BNA_G\DATA\BG061617\
Data File : BG027512.D
Acq On : 17 Jun 2017 18:30
Operator : SJ/MA
Sample : I3599-06
Misc :
ALS Vial : 44 Sample Multiplier: 1

**Instrument :** BNA_G
**ClientSampleId :** F5A87

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM-EPA-BG061617.M
Quant Title : SVOA CALIBRATION

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

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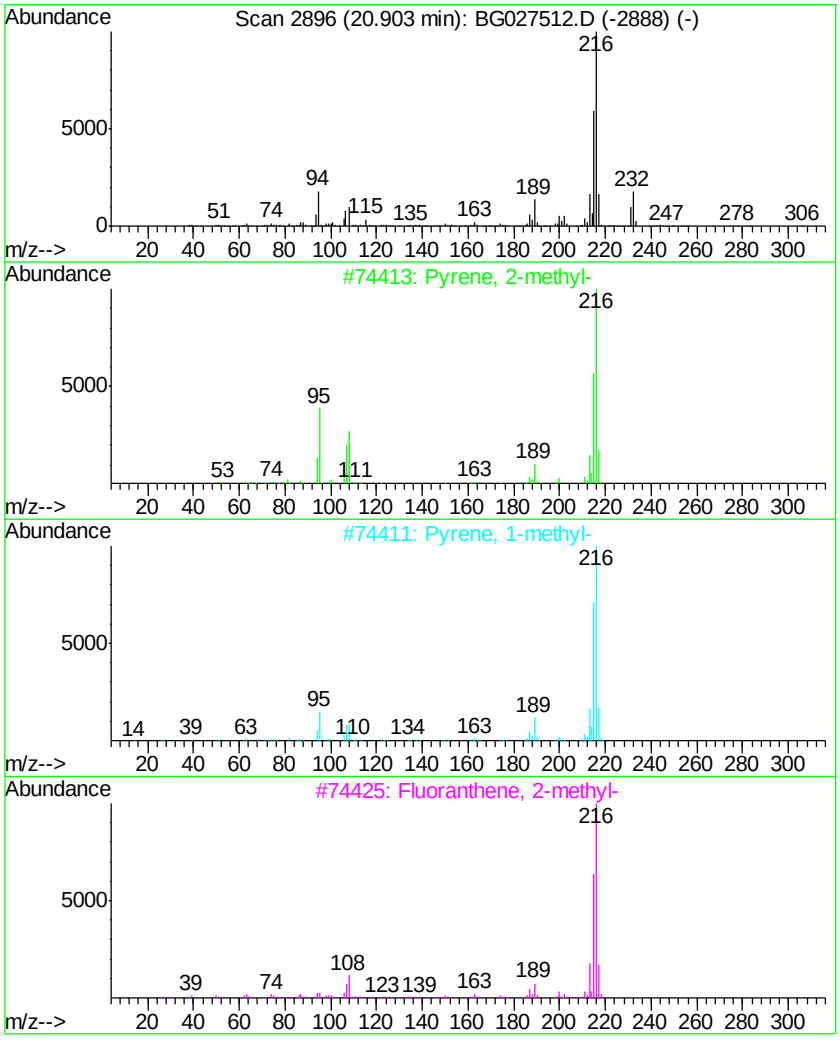
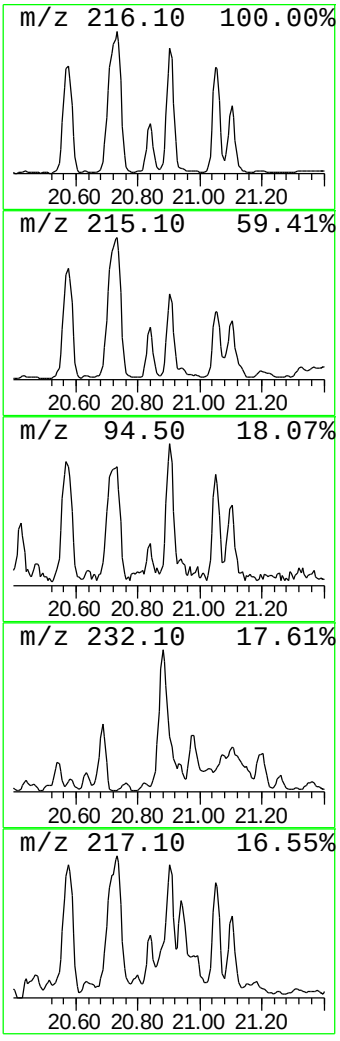
Peak Number 14 Pyrene, 2-methyl- Concentration Rank 22

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 20.90 | 3.62 ng/ul | 1097970 | Chrysene-d12 | 22.24 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Pyrene, 2-methyl- | 216 | C17H12 | 003442-78-2 | 96 |
| 2 | Pyrene, 1-methyl- | 216 | C17H12 | 002381-21-7 | 96 |
| 3 | Fluoranthene, 2-methyl- | 216 | C17H12 | 033543-31-6 | 96 |
| 4 | Pyrene, 4-methyl- | 216 | C17H12 | 003353-12-6 | 93 |
| 5 | 11H-Benzo[b]fluorene | 216 | C17H12 | 000243-17-4 | 87 |



Data Path : Z:\HPCHEM1\BNA_G\DATA\BG061617\
Data File : BG027512.D
Acq On : 17 Jun 2017 18:30
Operator : SJ/MA
Sample : I3599-06
Misc :
ALS Vial : 44 Sample Multiplier: 1

**Instrument :** BNA_G
**ClientSampleId :** F5A87

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM-EPA-BG061617.M
Quant Title : SVOA CALIBRATION

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

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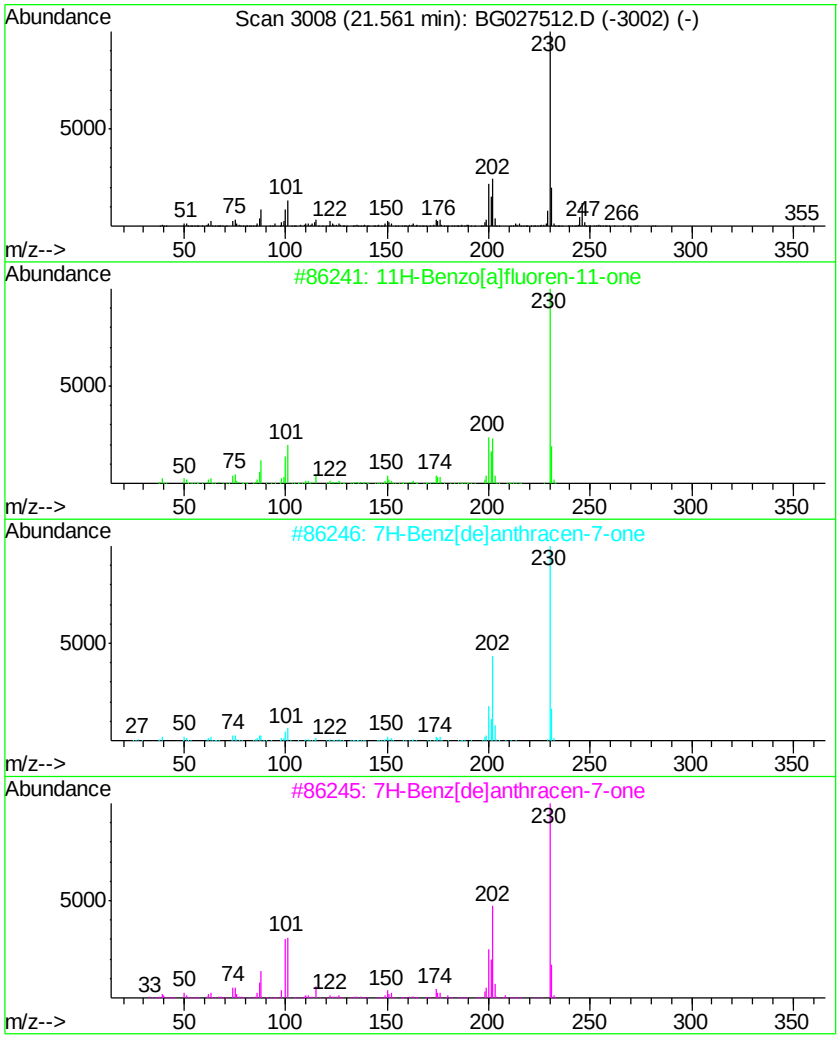
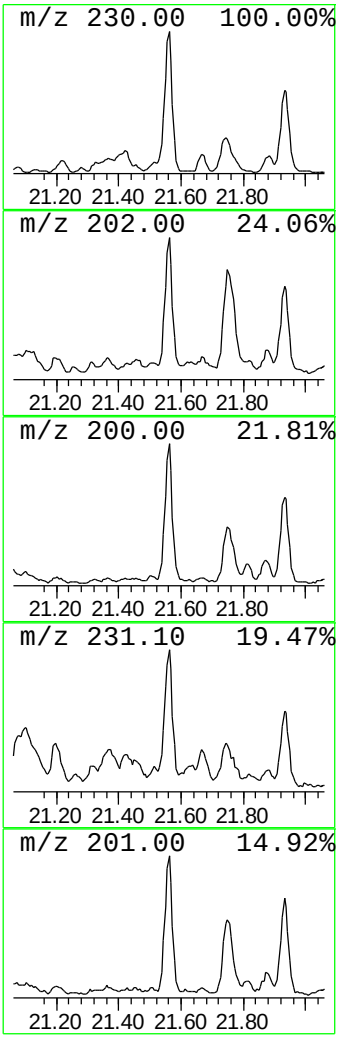
Peak Number 16 11H-Benzo[a]fluoren-11-one Concentration Rank 30

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 21.56 | 2.68 ng/ul | 813715 | Chrysene-d12 | 22.24 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 11H-Benzo[a]fluoren-11-one | 230 | C17H10O | 000479-79-8 | 97 |
| 2 | 7H-Benz[de]anthracen-7-one | 230 | C17H10O | 000082-05-3 | 89 |
| 3 | 7H-Benz[de]anthracen-7-one | 230 | C17H10O | 000082-05-3 | 87 |
| 4 | 7H-Benz[de]anthracen-7-one | 230 | C17H10O | 000082-05-3 | 81 |
| 5 | 7H-Benz[de]anthracen-7-one | 230 | C17H10O | 000082-05-3 | 81 |



Data Path : Z:\HPCHEM1\BNA_G\DATA\BG061617\
Data File : BG027512.D
Acq On : 17 Jun 2017 18:30
Operator : SJ/MA
Sample : I3599-06
Misc :
ALS Vial : 44 Sample Multiplier: 1

**Instrument :** BNA_G
**ClientSampleId :** F5A87

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM-EPA-BG061617.M
Quant Title : SVOA CALIBRATION

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

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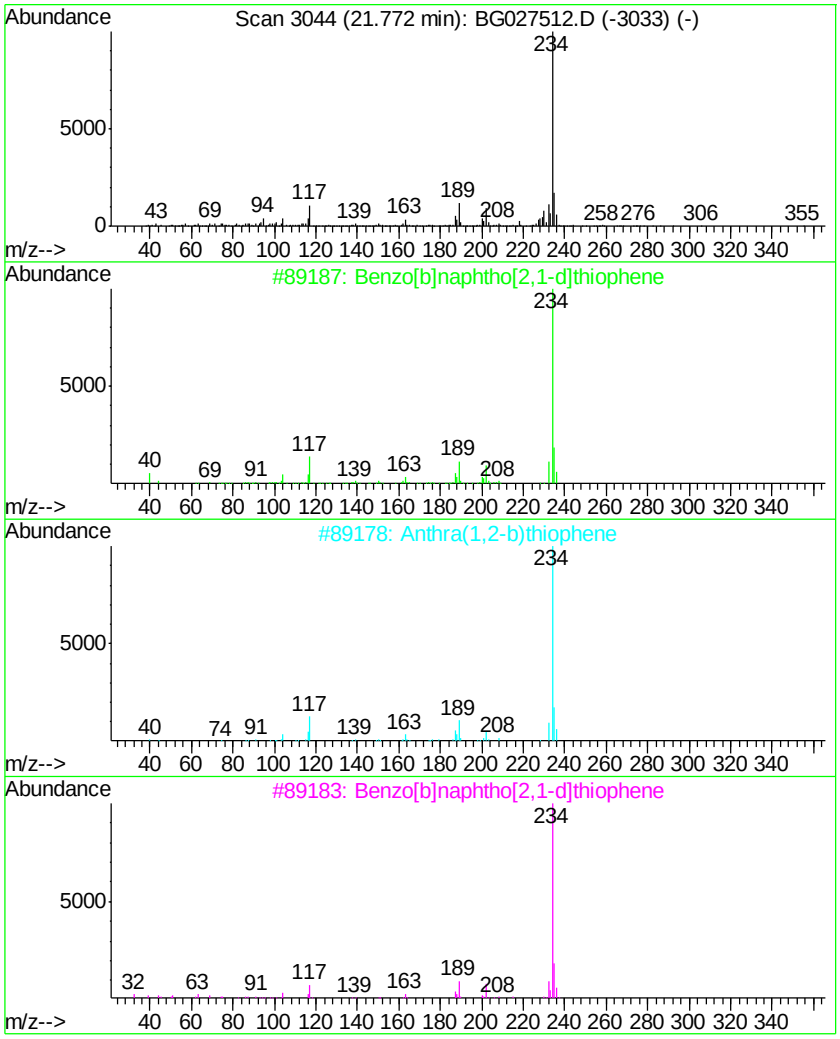
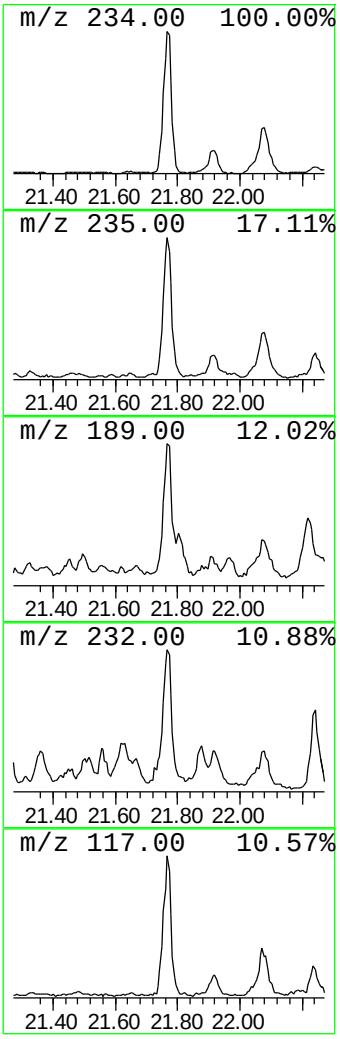
Peak Number 17 Benzo[b]naphtho[2,1-d]thiop... Concentration Rank 18

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 21.77 | 3.95 ng/ul | 1198860 | Chrysene-d12 | 22.24 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Benzo[b]naphtho[2,1-d]thiophene | 234 | C16H10S | 000239-35-0 | 98 |
| 2 | Anthra(1,2-b)thiophene | 234 | C16H10S | 000227-86-1 | 98 |
| 3 | Benzo[b]naphtho[2,1-d]thiophene | 234 | C16H10S | 000239-35-0 | 96 |
| 4 | Anthra(2,3-b)thiophene | 234 | C16H10S | 022108-55-0 | 94 |
| 5 | Benzo[b]naphtho[2,1-d]thiophene | 234 | C16H10S | 000239-35-0 | 94 |



Data Path : Z:\HPCHEM1\BNA_G\DATA\BG061617\
Data File : BG027512.D
Acq On : 17 Jun 2017 18:30
Operator : SJ/MA
Sample : I3599-06
Misc :
ALS Vial : 44 Sample Multiplier: 1

**Instrument :** BNA_G
**ClientSampleId :** F5A87

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM-EPA-BG061617.M
Quant Title : SVOA CALIBRATION

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

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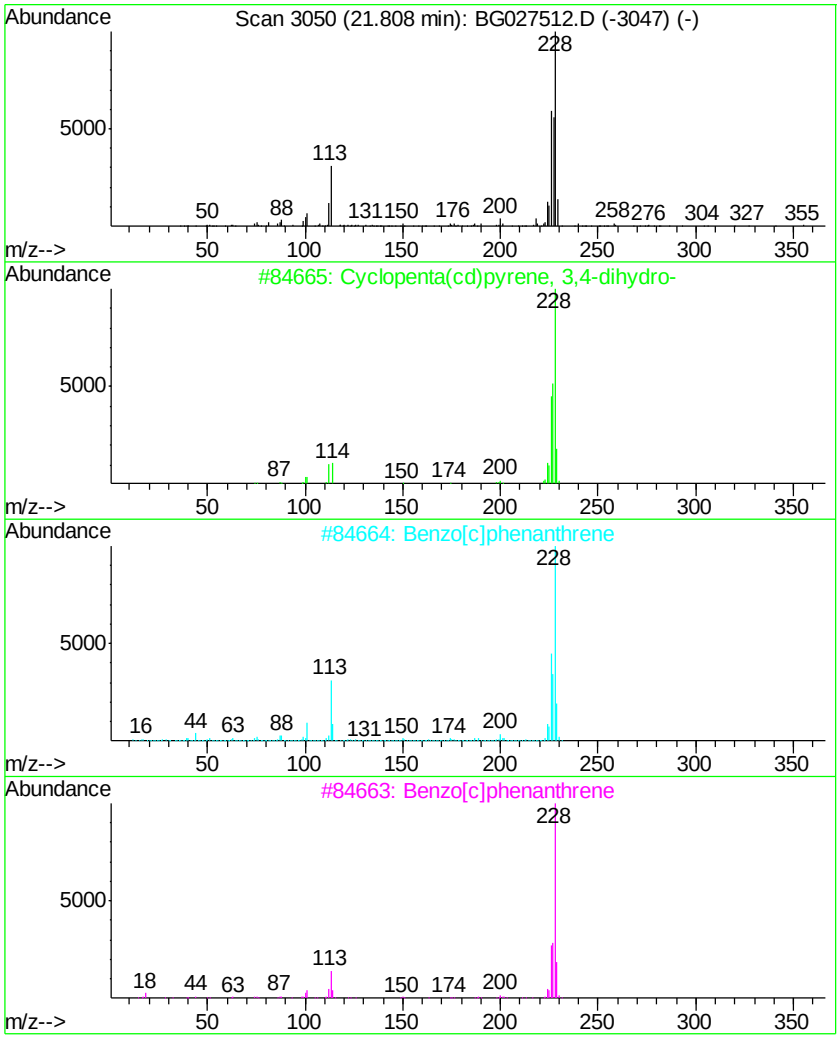
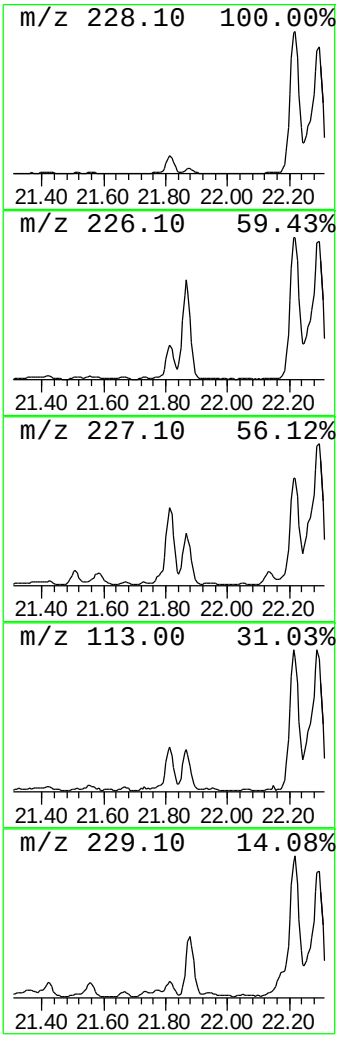
Peak Number 18 Cyclopenta(cd)pyrene, 3,4-d... Concentration Rank 35

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 21.81 | 2.36 ng/ul | 716971 | Chrysene-d12 | 22.24 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Cyclopenta(cd)pyrene, 3,4-dihydro- | 228 | C18H12 | 025732-74-5 | 92 |
| 2 | Benzo[c]phenanthrene | 228 | C18H12 | 000195-19-7 | 60 |
| 3 | Benzo[c]phenanthrene | 228 | C18H12 | 000195-19-7 | 58 |
| 4 | Triphenylene | 228 | C18H12 | 000217-59-4 | 49 |
| 5 | Triphenylene | 228 | C18H12 | 000217-59-4 | 43 |



Data Path : Z:\HPCHEM1\BNA_G\DATA\BG061617\
Data File : BG027512.D
Acq On : 17 Jun 2017 18:30
Operator : SJ/MA
Sample : I3599-06
Misc :
ALS Vial : 44 Sample Multiplier: 1

**Instrument :** BNA_G
**ClientSampleId :** F5A87

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM-EPA-BG061617.M
Quant Title : SVOA CALIBRATION

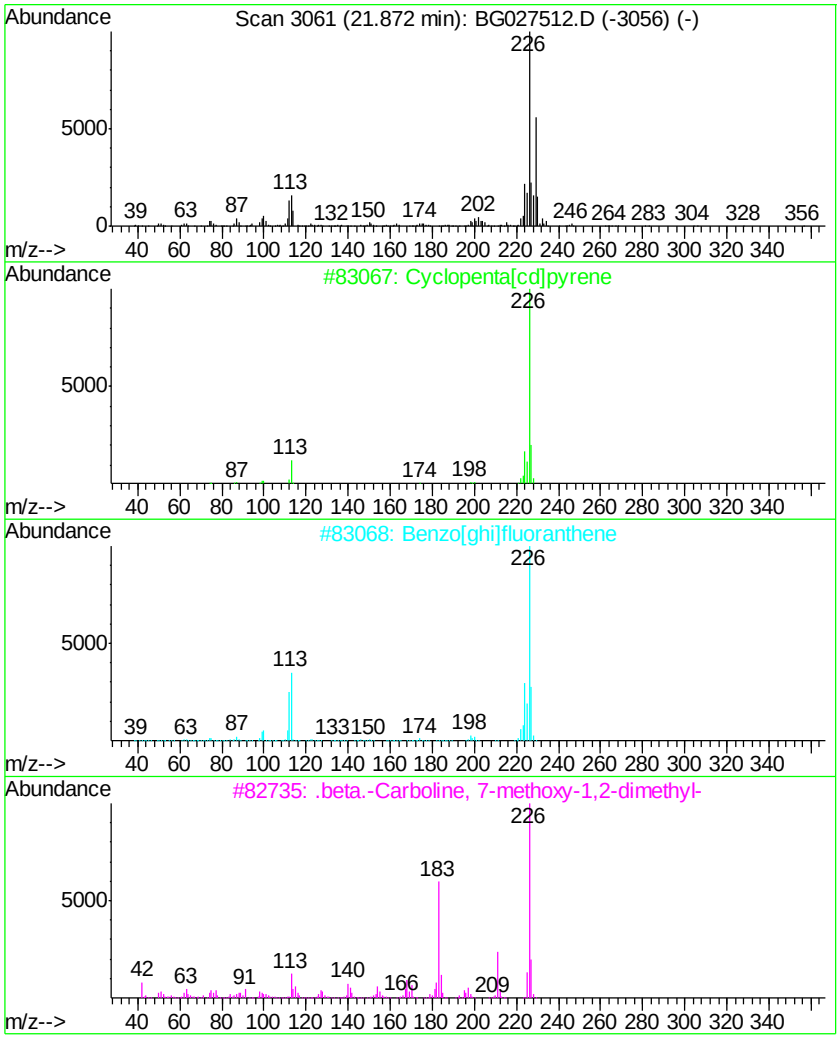
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

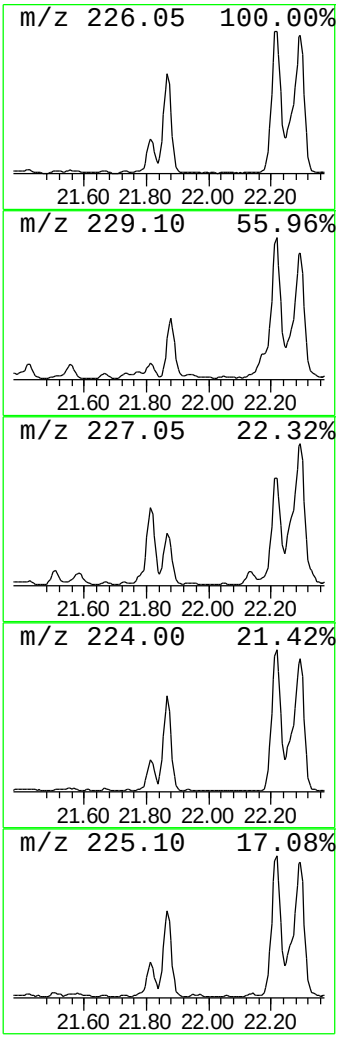
**********

Peak Number 19 Cyclopenta[cd]pyrene Concentration Rank 28

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 21.87 | 3.15 ng/ul | 957580 | Chrysene-d12 | 22.24 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Cyclopenta[cd]pyrene | 226 | C18H10 | 027208-37-3 | 55 |
| 2 | Benzo[ghi]fluoranthene | 226 | C18H10 | 000203-12-3 | 55 |
| 3 | .beta.-Carboline, 7-methoxy-1,2-... | 226 | C14H14N2O | 006519-18-2 | 46 |
| 4 | 1,1,3,3-Tetrachloro-1,3-disilacy... | 224 | C2H4Cl4Si2 | 002146-97-6 | 43 |
| 5 | N,N-Dimethylindoaniline | 226 | C14H14N2O | 002150-58-5 | 32 |



Data Path : Z:\HPCHEM1\BNA_G\DATA\BG061617\
Data File : BG027512.D
Acq On : 17 Jun 2017 18:30
Operator : SJ/MA
Sample : I3599-06
Misc :
ALS Vial : 44 Sample Multiplier: 1

**Instrument :** BNA_G
**ClientSampleId :** F5A87

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM-EPA-BG061617.M
Quant Title : SVOA CALIBRATION

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

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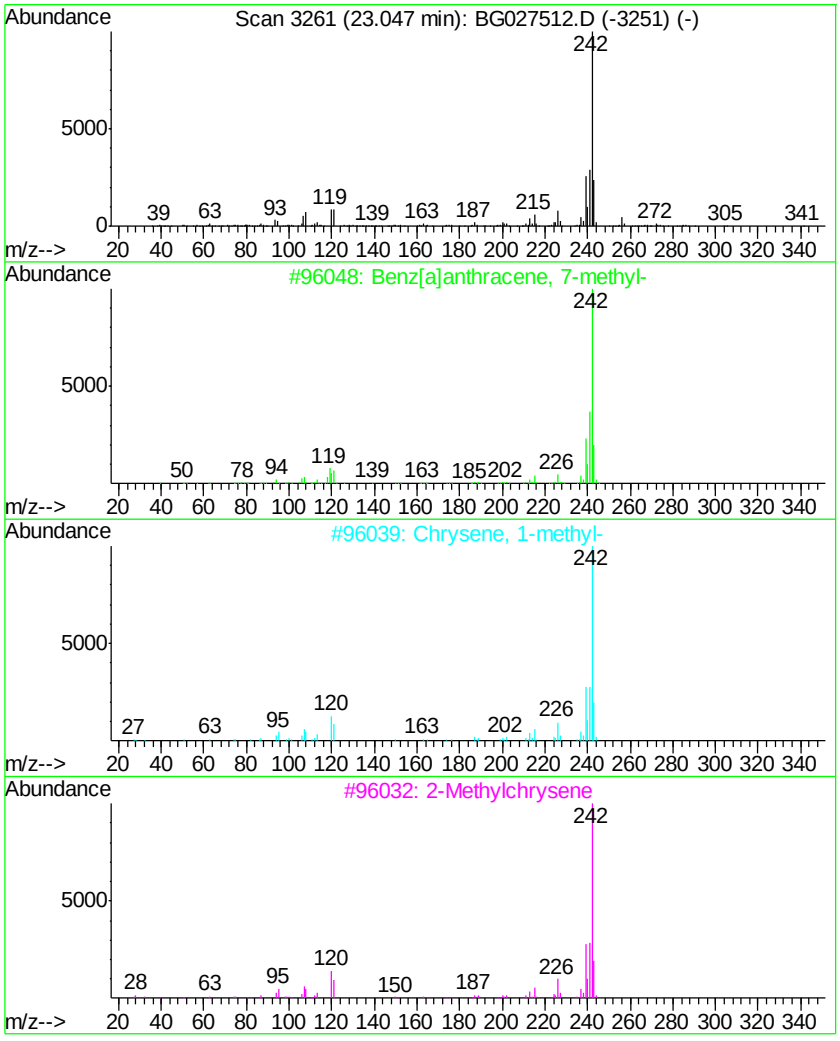
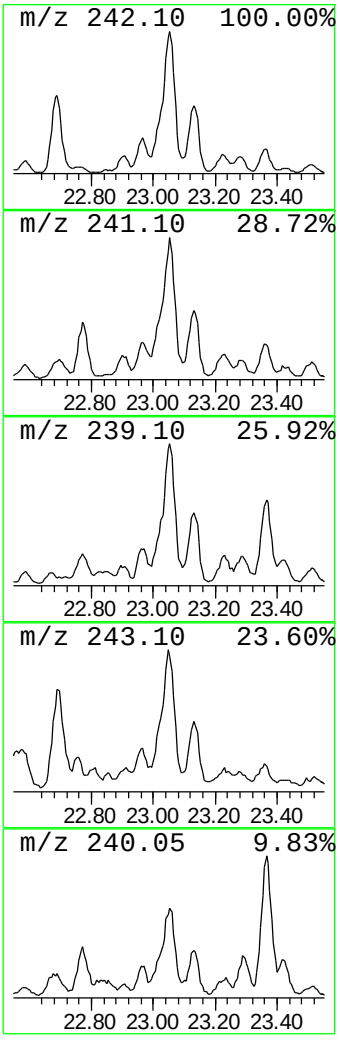
Peak Number 21 Benz[a]anthracene, 7-methyl- Concentration Rank 24

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 23.05 | 3.48 ng/ul | 1056370 | Chrysene-d12 | 22.24 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Benz[a]anthracene, 7-methyl- | 242 | C19H14 | 002541-69-7 | 96 |
| 2 | Chrysene, 1-methyl- | 242 | C19H14 | 003351-28-8 | 96 |
| 3 | 2-Methylchrysene | 242 | C19H14 | 003351-32-4 | 96 |
| 4 | Triphenylene, 2-methyl- | 242 | C19H14 | 001705-84-6 | 95 |
| 5 | Benz[a]anthracene, 7-methyl- | 242 | C19H14 | 002541-69-7 | 95 |



Data Path : Z:\HPCHEM1\BNA_G\DATA\BG061617\
Data File : BG027512.D
Acq On : 17 Jun 2017 18:30
Operator : SJ/MA
Sample : I3599-06
Misc :
ALS Vial : 44 Sample Multiplier: 1

**Instrument :** BNA_G
**ClientSampleId :** F5A87

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM-EPA-BG061617.M
Quant Title : SVOA CALIBRATION

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

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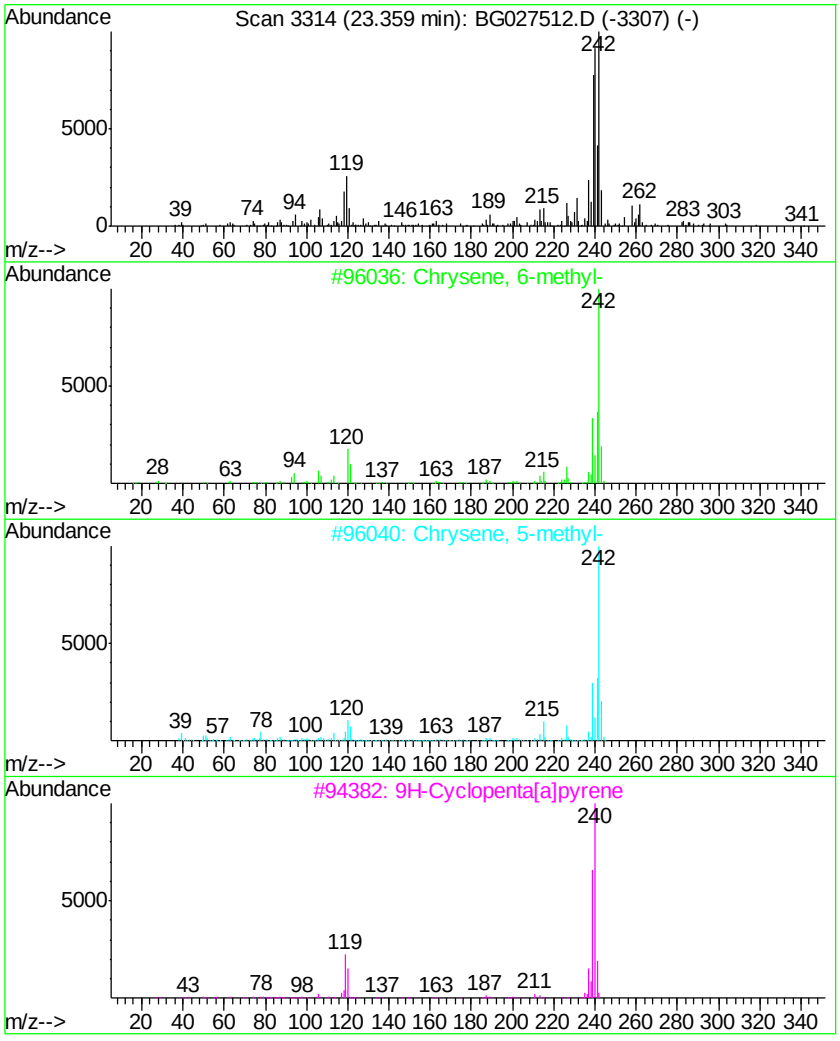
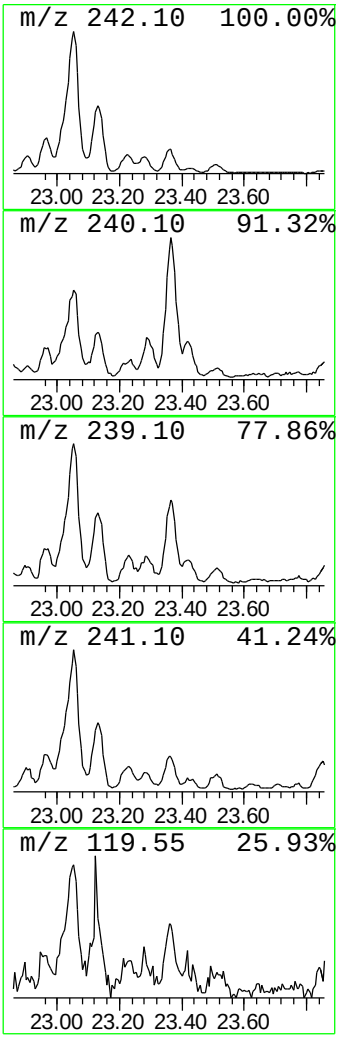
Peak Number 22 Chrysene, 6-methyl- Concentration Rank 38

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 23.36 | 2.05 ng/ul | 621924 | Chrysene-d12 | 22.24 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Chrysene, 6-methyl- | 242 | C19H14 | 001705-85-7 | 51 |
| 2 | Chrysene, 5-methyl- | 242 | C19H14 | 003697-24-3 | 51 |
| 3 | 9H-Cyclopenta[a]pyrene | 240 | C19H12 | 050861-05-7 | 49 |
| 4 | Benz[a]anthracene, 1-methyl- | 242 | C19H14 | 002498-77-3 | 43 |
| 5 | Benz[a]anthracene, 12-methyl- | 242 | C19H14 | 002422-79-9 | 38 |



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Data File : BG027512.D
Acq On : 17 Jun 2017 18:30
Operator : SJ/MA
Sample : I3599-06
Misc :
ALS Vial : 44 Sample Multiplier: 1

**Instrument :** BNA_G
**ClientSampleId :** F5A87

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM-EPA-BG061617.M
Quant Title : SVOA CALIBRATION

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

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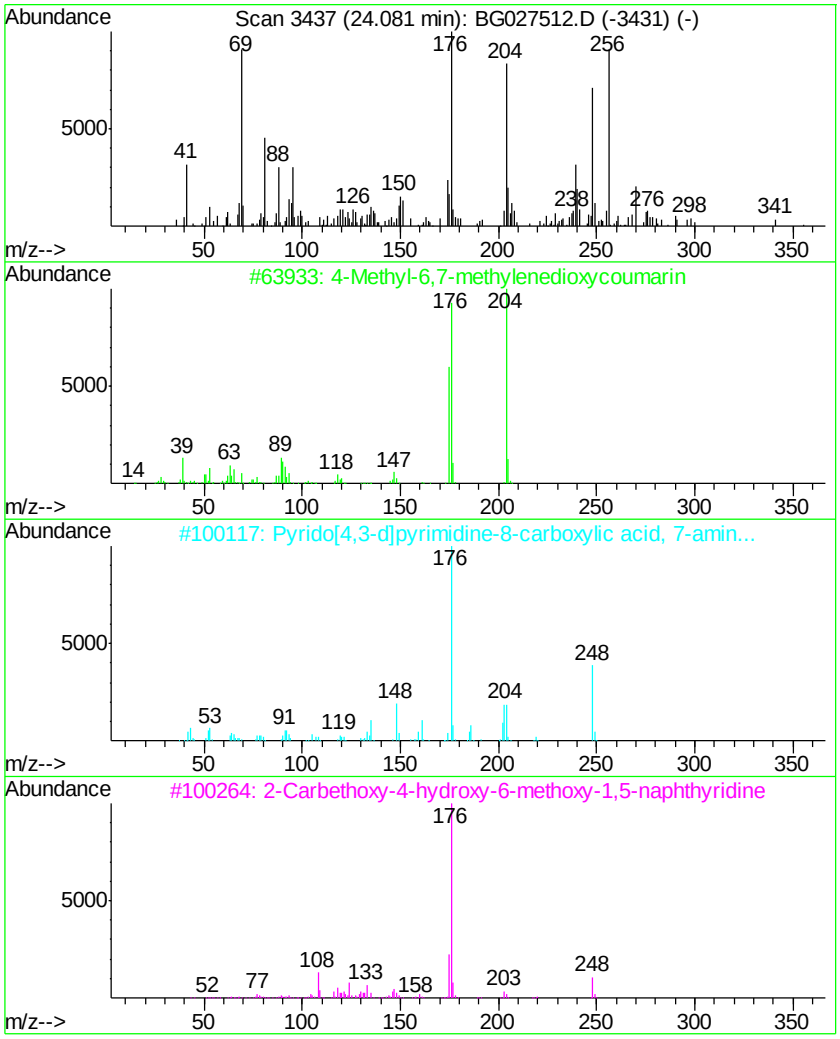
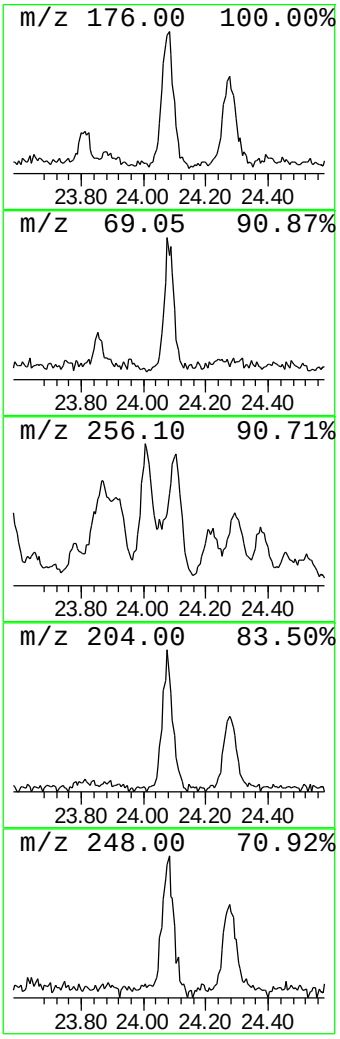
Peak Number 23 unknown-02 Concentration Rank 16

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 24.08 | 4.62 ng/ul | 290107 | Perylene-d12 | 25.90 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 4-Methyl-6,7-methylenedioxycoumarin | 204 | C11H8O4 | 015071-04-2 | 22 |
| 2 | Pyrido[4,3-d]pyrimidine-8-carbox... | 248 | C11H12N4O3 | 1000350-96-4 | 14 |
| 3 | 2-Carbethoxy-4-hydroxy-6-methoxy... | 248 | C12H12N2O4 | 1000227-07-7 | 14 |
| 4 | 1,2,3,4,6,7,8,9-Octahydrodipyrid... | 205 | C11H15N3O | 111303-60-7 | 12 |
| 5 | Phenanthro[3,4-c]furan-1,3-dione | 248 | C16H8O3 | 005723-54-6 | 11 |



Data Path : Z:\HPCHEM1\BNA_G\DATA\BG061617\
Data File : BG027512.D
Acq On : 17 Jun 2017 18:30
Operator : SJ/MA
Sample : I3599-06
Misc :
ALS Vial : 44 Sample Multiplier: 1

**Instrument :** BNA_G
**ClientSampleId :** F5A87

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM-EPA-BG061617.M
Quant Title : SVOA CALIBRATION

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

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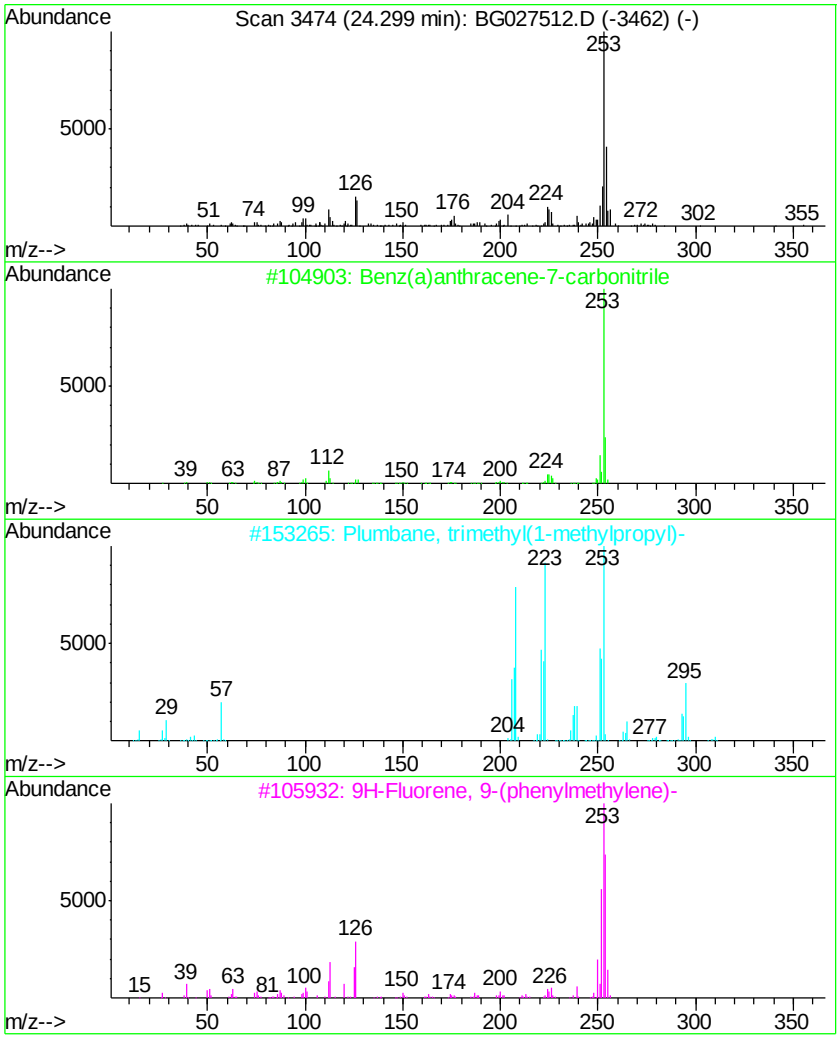
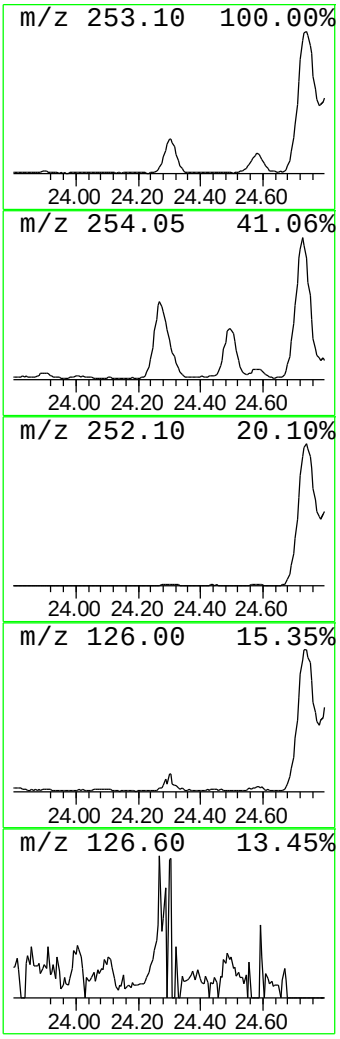
Peak Number 24 Benz(a)anthracene-7-carboni... Concentration Rank 5

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 24.30 | 8.81 ng/ul | 553882 | Perylene-d12 | 25.90 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Benz(a)anthracene-7-carbonitrile | 253 | C19H11N | 007476-08-6 | 64 |
| 2 | Plumbane, trimethyl(1-methylprop... | 310 | C7H18Pb | 054964-76-0 | 43 |
| 3 | 9H-Fluorene, 9-(phenylmethylene)- | 254 | C20H14 | 001836-87-9 | 43 |
| 4 | 7,12-Dihydrobenzo[k]fluoranthene | 254 | C20H14 | 1000080-17-7 | 43 |
| 5 | 4,6'-Biazulenyl | 254 | C20H14 | 094154-49-1 | 38 |



Data Path : Z:\HPCHEM1\BNA_G\DATA\BG061617\
Data File : BG027512.D
Acq On : 17 Jun 2017 18:30
Operator : SJ/MA
Sample : I3599-06
Misc :
ALS Vial : 44 Sample Multiplier: 1

**Instrument :** BNA_G
**ClientSampleId :** F5A87

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM-EPA-BG061617.M
Quant Title : SVOA CALIBRATION

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

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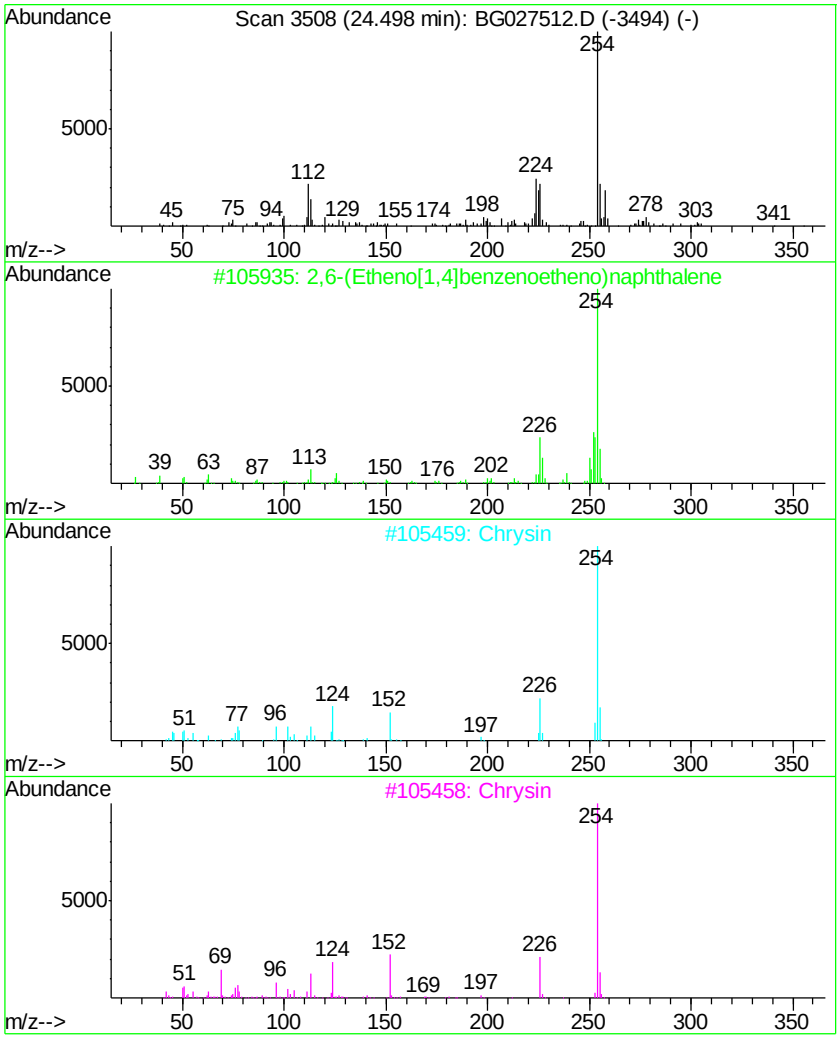
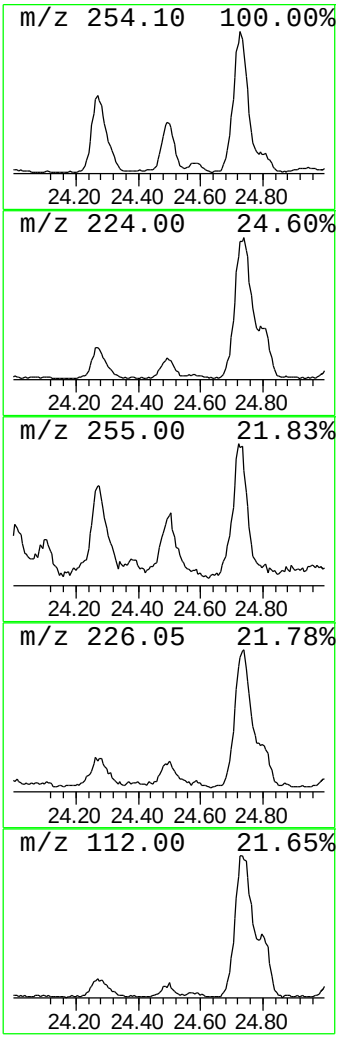
Peak Number 25 2,6-(Etheno[1,4]benzenoethe... Concentration Rank 23

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 24.50 | 3.61 ng/ul | 226986 | Perylene-d12 | 25.90 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 2,6-(Etheno[1,4]benzenoetheno)na... | 254 | C20H14 | 117054-70-3 | 50 |
| 2 | Chrysin | 254 | C15H10O4 | 000480-40-0 | 47 |
| 3 | Chrysin | 254 | C15H10O4 | 000480-40-0 | 43 |
| 4 | Pyrrolo[3,4-c]pyridine-1,3-dione... | 254 | C14H10N2O3 | 1000316-41-8 | 43 |
| 5 | 1,1'-Binaphthalene | 254 | C20H14 | 000604-53-5 | 43 |



Data Path : Z:\HPCHEM1\BNA_G\DATA\BG061617\
Data File : BG027512.D
Acq On : 17 Jun 2017 18:30
Operator : SJ/MA
Sample : I3599-06
Misc :
ALS Vial : 44 Sample Multiplier: 1

**Instrument :** BNA_G
**ClientSampleId :** F5A87

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM-EPA-BG061617.M
Quant Title : SVOA CALIBRATION

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

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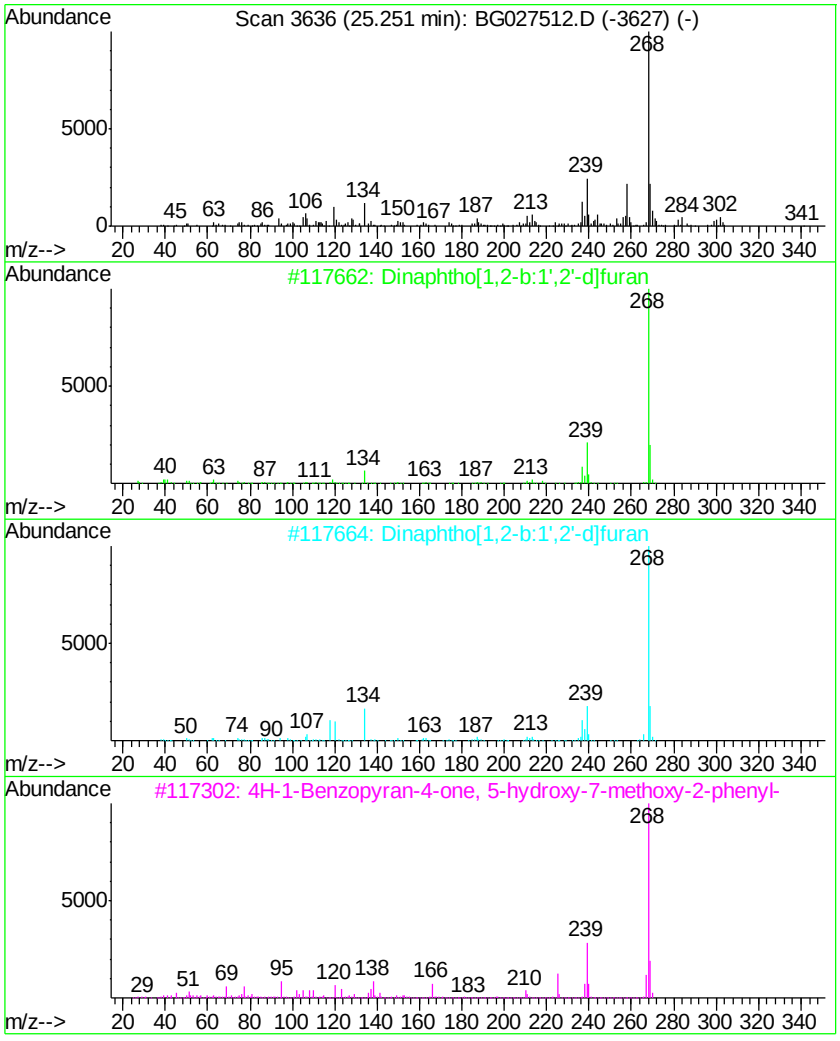
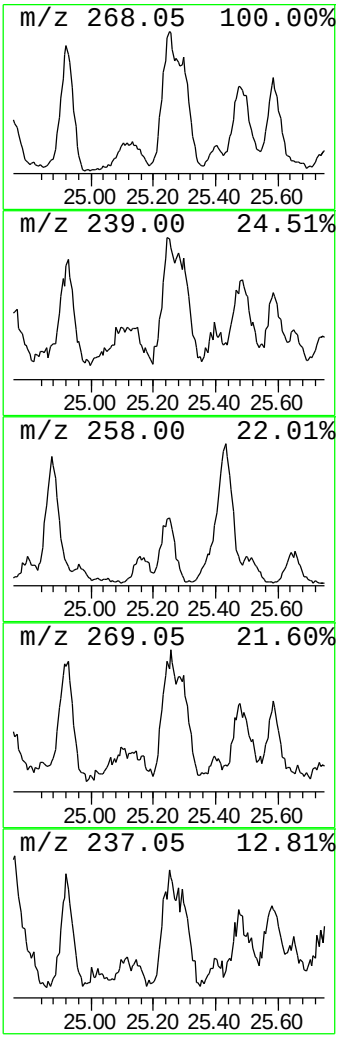
Peak Number 27 Dinaphtho[1,2-b:1',2'-d]furan Concentration Rank 6

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 25.25 | 7.82 ng/ul | 491458 | Perylene-d12 | 25.90 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Dinaphtho[1,2-b:1',2'-d]furan | 268 | C20H12O | 000207-93-2 | 81 |
| 2 | Dinaphtho[1,2-b:1',2'-d]furan | 268 | C20H12O | 000207-93-2 | 76 |
| 3 | 4H-1-Benzopyran-4-one, 5-hydroxy... | 268 | C16H12O4 | 000520-28-5 | 64 |
| 4 | 10-Hydroxy-5-methoxy-2-methyl-1,... | 268 | C16H12O4 | 084542-45-0 | 64 |
| 5 | Benzo(a)pyrene 4,5-oxide | 268 | C20H12O | 037574-47-3 | 64 |



Data Path : Z:\HPCHEM1\BNA_G\DATA\BG061617\
Data File : BG027512.D
Acq On : 17 Jun 2017 18:30
Operator : SJ/MA
Sample : I3599-06
Misc :
ALS Vial : 44 Sample Multiplier: 1

**Instrument :** BNA_G
**ClientSampleId :** F5A87

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM-EPA-BG061617.M
Quant Title : SVOA CALIBRATION

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

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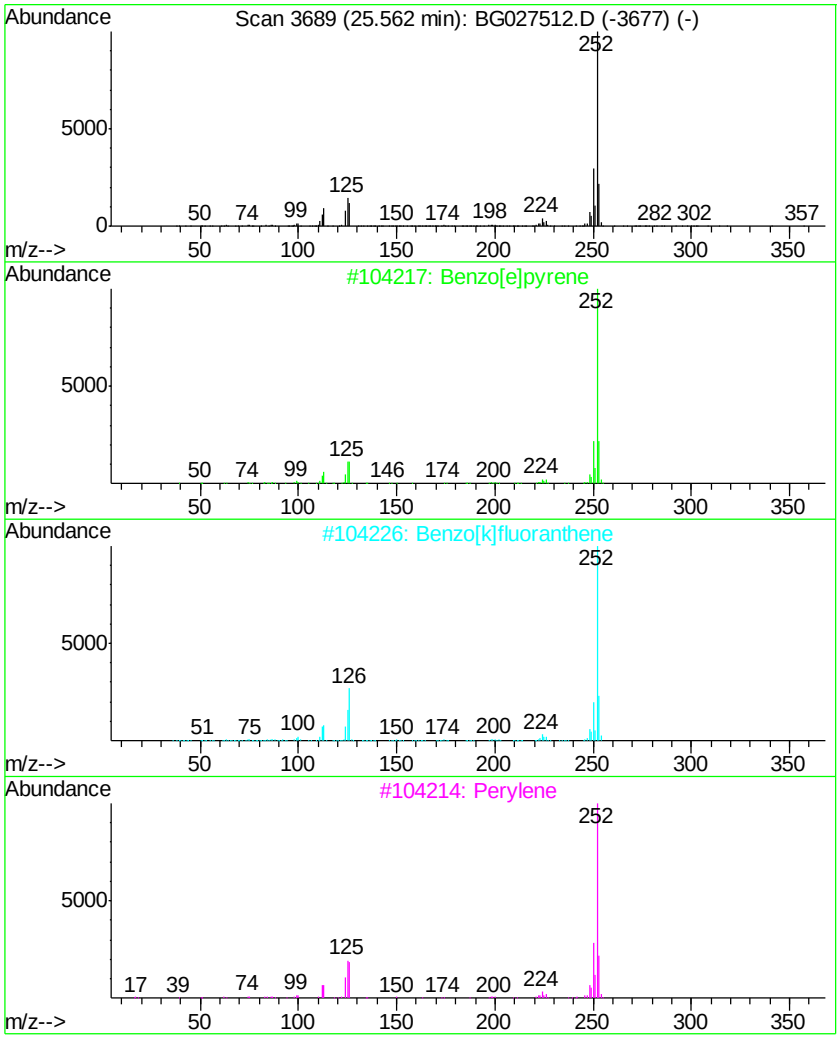
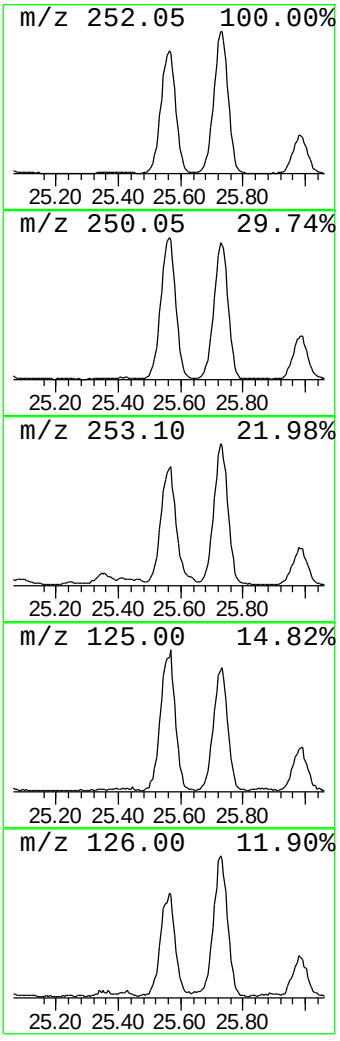
Peak Number 28 Benzo[e]pyrene Concentration Rank 1

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 25.56 | 32.67 ng/ul | 2053360 | Perylene-d12 | 25.90 |

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



Data Path : Z:\HPCHEM1\BNA_G\DATA\BG061617\
Data File : BG027512.D
Acq On : 17 Jun 2017 18:30
Operator : SJ/MA
Sample : I3599-06
Misc :
ALS Vial : 44 Sample Multiplier: 1

**Instrument :** BNA_G
**ClientSampleId :** F5A87

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM-EPA-BG061617.M
Quant Title : SVOA CALIBRATION

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

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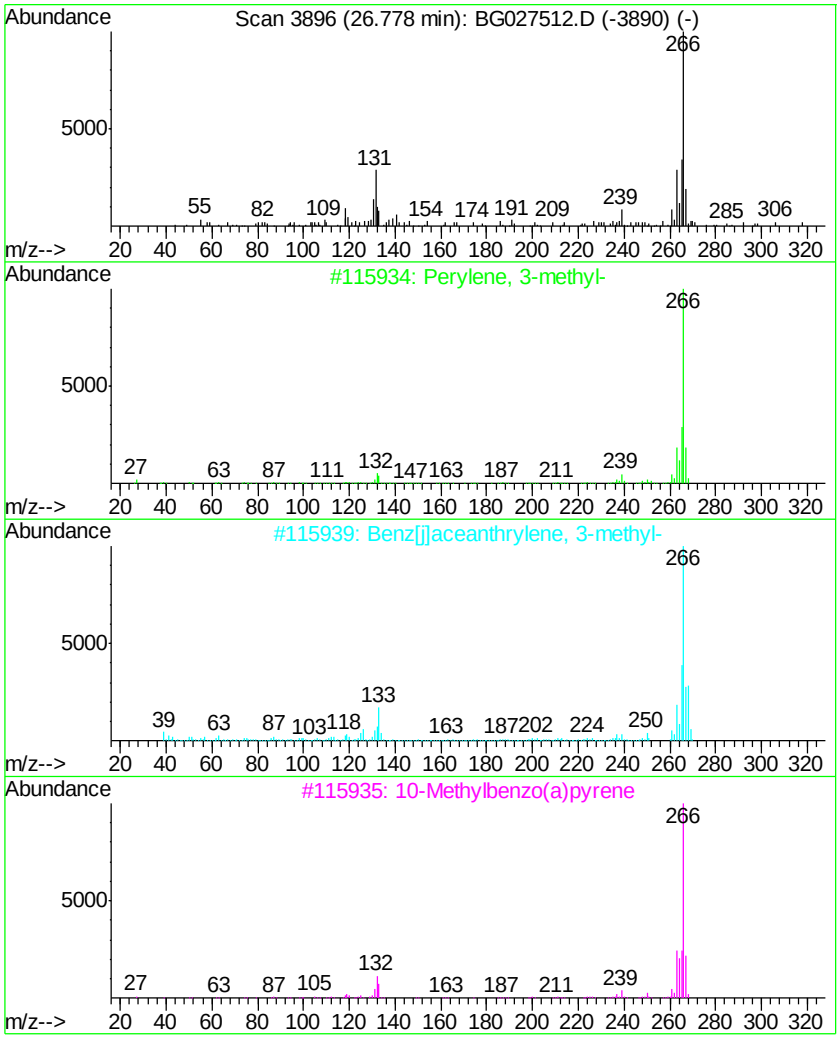
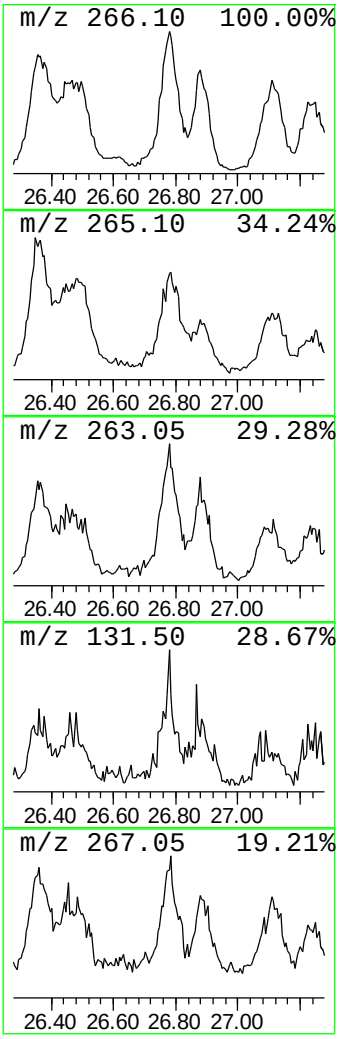
Peak Number 30 Perylene, 3-methyl- Concentration Rank 37

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 26.78 | 2.10 ng/ul | 131972 | Perylene-d12 | 25.90 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Perylene, 3-methyl- | 266 | C21H14 | 024471-47-4 | 62 |
| 2 | Benz[j]aceanthrylene, 3-methyl- | 266 | C21H14 | 003343-10-0 | 55 |
| 3 | 10-Methylbenzo(a)pyrene | 266 | C21H14 | 063104-32-5 | 53 |
| 4 | Thiazole, 4-(4-methylphenyl)-2-p... | 266 | C16H14N2S | 093020-56-5 | 52 |
| 5 | Benzo[1,2-b:4,3-b']dithiophene, ... | 266 | C16H10S2 | 016587-58-9 | 52 |



Data Path : Z:\HPCHEM1\BNA_G\DATA\BG061617\
Data File : BG027512.D
Acq On : 17 Jun 2017 18:30
Operator : SJ/MA
Sample : I3599-06
Misc :
ALS Vial : 44 Sample Multiplier: 1

**Instrument :** BNA_G
**ClientSampleId :** F5A87

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM-EPA-BG061617.M
Quant Title : SVOA CALIBRATION

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

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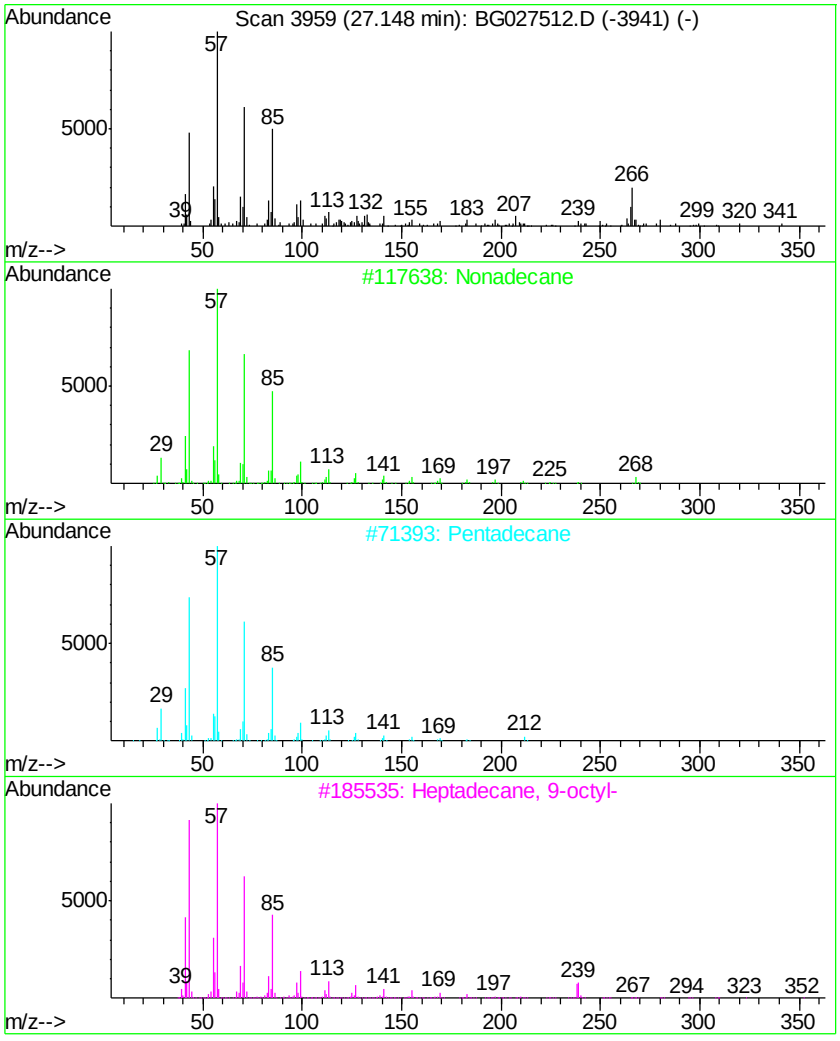
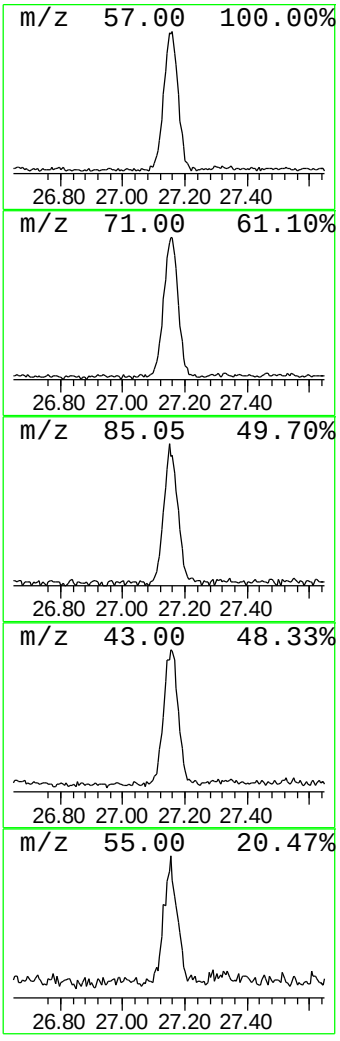
Peak Number 32 (DEL) Alkane: Straight-Chai... Concentration Rank 9

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 27.15 | 5.92 ng/ul | 371803 | Perylene-d12 | 25.90 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Nonadecane | 268 | C19H40 | 000629-92-5 | 97 |
| 2 | Pentadecane | 212 | C15H32 | 000629-62-9 | 83 |
| 3 | Heptadecane, 9-octyl- | 352 | C25H52 | 007225-64-1 | 70 |
| 4 | 2-methyloctacosane | 408 | C29H60 | 1000376-72-8 | 70 |
| 5 | Hexacosane | 366 | C26H54 | 000630-01-3 | 70 |



Data Path : Z:\HPCHEM1\BNA_G\DATA\BG061617\
Data File : BG027512.D
Acq On : 17 Jun 2017 18:30
Operator : SJ/MA
Sample : I3599-06
Misc :
ALS Vial : 44 Sample Multiplier: 1

**Instrument :** BNA_G
**ClientSampleId :** F5A87

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM-EPA-BG061617.M
Quant Title : SVOA CALIBRATION

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

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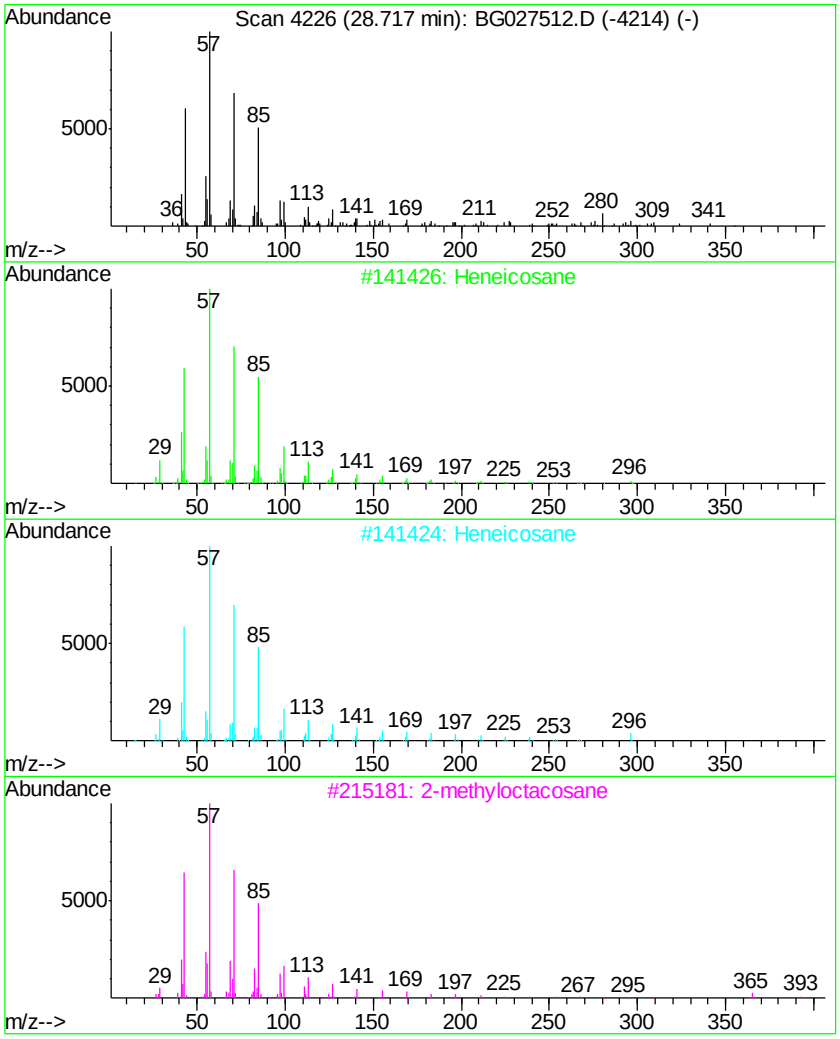
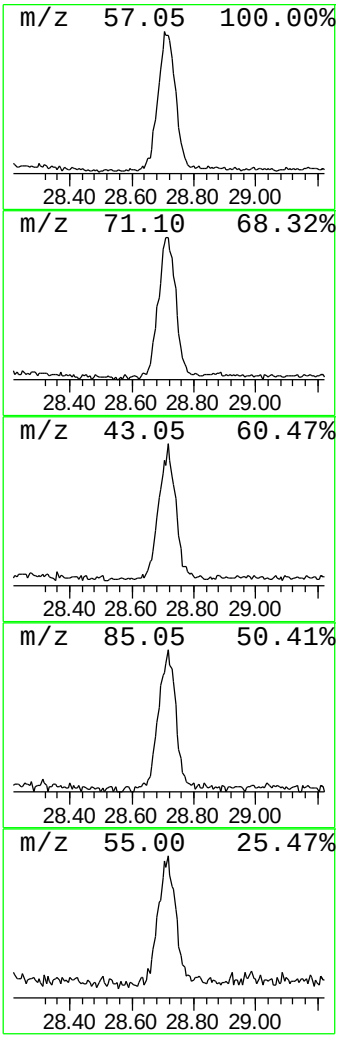
Peak Number 34 (DEL) Alkane: Straight-Chai... Concentration Rank 15

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 28.72 | 4.68 ng/ul | 294104 | Perylene-d12 | 25.90 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Heneicosane | 296 | C21H44 | 000629-94-7 | 96 |
| 2 | Heneicosane | 296 | C21H44 | 000629-94-7 | 92 |
| 3 | 2-methyloctacosane | 408 | C29H60 | 1000376-72-8 | 90 |
| 4 | Hexadecane, 7,9-dimethyl- | 254 | C18H38 | 021164-95-4 | 89 |
| 5 | Nonadecane, 9-methyl- | 282 | C20H42 | 013287-24-6 | 87 |



Data Path : Z:\HPCHEM1\BNA_G\DATA\BG061617\
Data File : BG027512.D
Acq On : 17 Jun 2017 18:30
Operator : SJ/MA
Sample : I3599-06
Misc :
ALS Vial : 44 Sample Multiplier: 1

**Instrument :** BNA_G
**ClientSampleId :** F5A87

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM-EPA-BG061617.M
Quant Title : SVOA CALIBRATION

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

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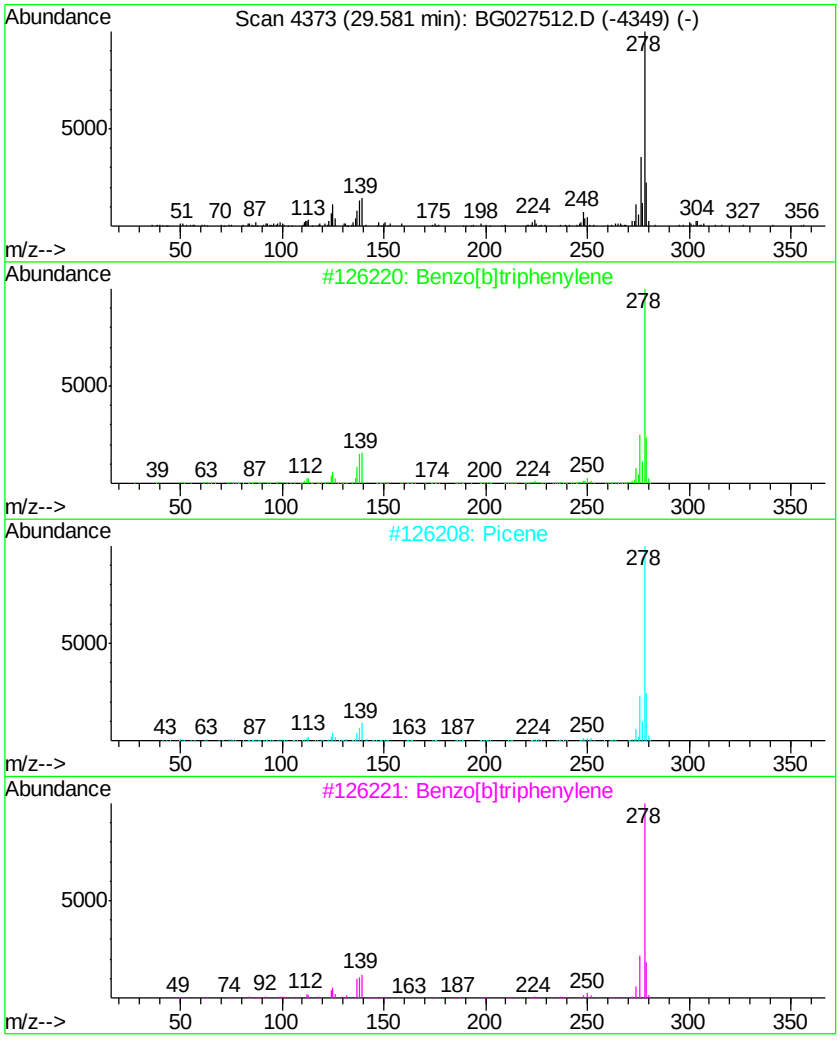
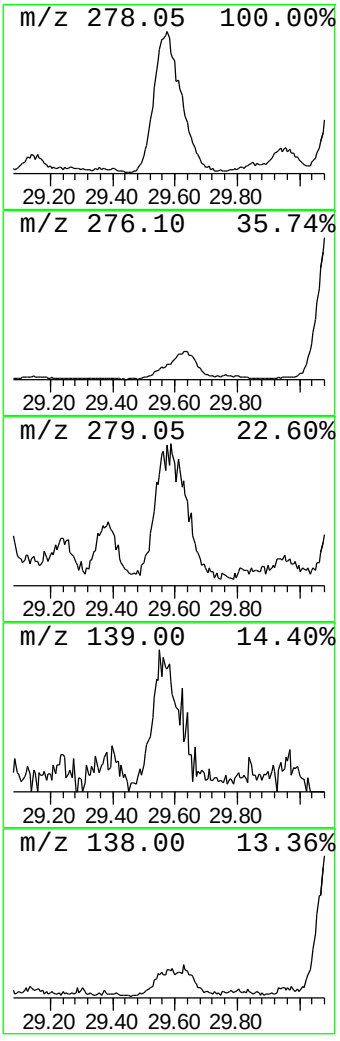
Peak Number 35 Benzo[b]triphenylene Concentration Rank 13

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 29.58 | 4.98 ng/ul | 312737 | Perylene-d12 | 25.90 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Benzo[b]triphenylene | 278 | C22H14 | 000215-58-7 | 98 |
| 2 | Picene | 278 | C22H14 | 000213-46-7 | 93 |
| 3 | Benzo[b]triphenylene | 278 | C22H14 | 000215-58-7 | 86 |
| 4 | Picene | 278 | C22H14 | 000213-46-7 | 76 |
| 5 | Picene | 278 | C22H14 | 000213-46-7 | 70 |



Tentatively Identified Compound (LSC) summary

Data Path : Z:\HPCHEM1\BNA_G\DATA\BG061617\
Data File : BG027512.D
Acq On : 17 Jun 2017 18:30
Operator : SJ/MA
Sample : I3599-06
Misc :
ALS Vial : 44 Sample Multiplier: 1

**Instrument :** BNA_G
**ClientSampleId :** F5A87

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM-EPA-BG061617.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 |
| Carbazole, 3,5-di... | 16.78 | 4.1 | ng/ul | 191166 | 4 | 17.85 | 922824 | 20.0 |
| Perimidine, 2-ethyl- | 17.57 | 2.5 | ng/ul | 113777 | 4 | 17.85 | 922824 | 20.0 |
| Anthracene, 2-met... | 18.72 | 2.7 | ng/ul | 122675 | 4 | 17.85 | 922824 | 20.0 |
| Phenanthrene, 2-m... | 18.77 | 3.7 | ng/ul | 170248 | 4 | 17.85 | 922824 | 20.0 |
| 4H-Cyclopenta[def... | 18.92 | 11.3 | ng/ul | 523193 | 4 | 17.85 | 922824 | 20.0 |
| Phenanthrene, 1,7... | 19.54 | 2.4 | ng/ul | 109727 | 4 | 17.85 | 922824 | 20.0 |
| Phenanthrene, 3,6... | 19.62 | 7.2 | ng/ul | 332974 | 4 | 17.85 | 922824 | 20.0 |
| Cyclopenta(def)ph... | 19.77 | 10.0 | ng/ul | 460216 | 4 | 17.85 | 922824 | 20.0 |
| unknown-01 | 19.98 | 3.4 | ng/ul | 155059 | 4 | 17.85 | 922824 | 20.0 |
| Pyrene, 1-methyl- | 20.57 | 3.7 | ng/ul | 1134570 | 5 | 22.24 | 6071590 | 20.0 |
| Fluoranthene, 2-m... | 20.73 | 5.1 | ng/ul | 1551990 | 5 | 22.24 | 6071590 | 20.0 |
| Pyrene, 2-methyl- | 20.90 | 3.6 | ng/ul | 1097970 | 5 | 22.24 | 6071590 | 20.0 |
| 11H-Benzo[a]fluor... | 21.56 | 2.7 | ng/ul | 813715 | 5 | 22.24 | 6071590 | 20.0 |
| Benzo[b]naphtho[2... | 21.77 | 4.0 | ng/ul | 1198860 | 5 | 22.24 | 6071590 | 20.0 |
| Cyclopenta(cd)pyr... | 21.81 | 2.4 | ng/ul | 716971 | 5 | 22.24 | 6071590 | 20.0 |
| Cyclopenta[cd]pyrene | 21.87 | 3.1 | ng/ul | 957580 | 5 | 22.24 | 6071590 | 20.0 |
| Benz[a]anthracene... | 23.05 | 3.5 | ng/ul | 1056370 | 5 | 22.24 | 6071590 | 20.0 |
| Chrysene, 6-methyl- | 23.36 | 2.0 | ng/ul | 621924 | 5 | 22.24 | 6071590 | 20.0 |
| unknown-02 | 24.08 | 4.6 | ng/ul | 290107 | 6 | 25.90 | 1257040 | 20.0 |
| Benz(a)anthracene... | 24.30 | 8.8 | ng/ul | 553882 | 6 | 25.90 | 1257040 | 20.0 |
| 2,6-(Etheno[1,4]b... | 24.50 | 3.6 | ng/ul | 226986 | 6 | 25.90 | 1257040 | 20.0 |
| Dinaphtho[1,2-b:1... | 25.25 | 7.8 | ng/ul | 491458 | 6 | 25.90 | 1257040 | 20.0 |
| Benzo[e]pyrene | 25.56 | 32.7 | ng/ul | 2053360 | 6 | 25.90 | 1257040 | 20.0 |
| Perylene, 3-methyl- | 26.78 | 2.1 | ng/ul | 131972 | 6 | 25.90 | 1257040 | 20.0 |
| (DEL) Alkane: Str... | 27.15 | 5.9 | ng/ul | 371803 | 6 | 25.90 | 1257040 | 20.0 |
| (DEL) Alkane: Str... | 28.72 | 4.7 | ng/ul | 294104 | 6 | 25.90 | 1257040 | 20.0 |
| Benzo[b]triphenylene | 29.58 | 5.0 | ng/ul | 312737 | 6 | 25.90 | 1257040 | 20.0 |