

Data Path : Z:\HPCHEM1\BNA G\DATA\BG122115\  
 Data File : BG020393.D  
 Acq On : 22 Dec 2015 1:37  
 Operator : UM/SJ  
 Sample : G4768-18DL 30X  
 Misc :  
 ALS Vial : 14 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleId :  
 D9N42DL

## Integration Parameters: LSCINT.P

Integrator: RTE  
 Smoothing : OFF  
 Sampling : 1  
 Start Thrs: 0.2  
 Stop Thrs : 0

Filtering: 5  
 Min Area: 0.1 % of largest Peak  
 Max Peaks: 100  
 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >  
 Peak separation: 5

Method : Z:\HPCHEM1\BNA\_G\METHODS\SOM02.2-EPA-BG121415.M  
 Title : SVOA CALIBRATION

Signal : TIC

| peak<br># | R.T.<br>min | first<br>scan | max<br>scan | last<br>scan | PK<br>TY | peak<br>height | corr.<br>area | corr.<br>% max. | % of<br>total |
|-----------|-------------|---------------|-------------|--------------|----------|----------------|---------------|-----------------|---------------|
| 1         | 3.116       | 42            | 47          | 57           | rVB2     | 8940           | 19314         | 5.60%           | 0.798%        |
| 2         | 3.198       | 59            | 61          | 64           | rVB2     | 1944           | 1702          | 0.49%           | 0.070%        |
| 3         | 3.886       | 176           | 178         | 181          | rBV3     | 677            | 744           | 0.22%           | 0.031%        |
| 4         | 4.056       | 206           | 207         | 211          | rVB2     | 537            | 477           | 0.14%           | 0.020%        |
| 5         | 4.603       | 296           | 300         | 303          | rBV      | 463            | 528           | 0.15%           | 0.022%        |
| 6         | 4.726       | 316           | 321         | 323          | rBV2     | 310            | 523           | 0.15%           | 0.022%        |
| 7         | 4.896       | 346           | 350         | 351          | rBV      | 466            | 607           | 0.18%           | 0.025%        |
| 8         | 5.020       | 366           | 371         | 373          | rVB      | 425            | 644           | 0.19%           | 0.027%        |
| 9         | 5.372       | 426           | 431         | 433          | rBV      | 700            | 736           | 0.21%           | 0.030%        |
| 10        | 5.884       | 516           | 518         | 521          | rBB      | 403            | 524           | 0.15%           | 0.022%        |
| 11        | 7.411       | 774           | 778         | 784          | rBB      | 1733           | 2861          | 0.83%           | 0.118%        |
| 12        | 7.629       | 810           | 815         | 819          | rBB2     | 1519           | 2446          | 0.71%           | 0.101%        |
| 13        | 7.805       | 841           | 845         | 848          | rBV      | 603            | 757           | 0.22%           | 0.031%        |
| 14        | 8.093       | 888           | 894         | 902          | rBV      | 58516          | 98219         | 28.49%          | 4.060%        |
| 15        | 8.457       | 952           | 956         | 957          | rBV      | 403            | 520           | 0.15%           | 0.021%        |
| 16        | 8.469       | 957           | 958         | 962          | rVB      | 793            | 609           | 0.18%           | 0.025%        |
| 17        | 8.633       | 978           | 986         | 994          | rBB      | 8913           | 16045         | 4.65%           | 0.663%        |
| 18        | 8.804       | 1011          | 1015        | 1019         | rBV2     | 907            | 1644          | 0.48%           | 0.068%        |
| 19        | 9.262       | 1089          | 1093        | 1099         | rBB      | 2096           | 3776          | 1.10%           | 0.156%        |
| 20        | 9.985       | 1212          | 1216        | 1221         | rBV2     | 778            | 1338          | 0.39%           | 0.055%        |
| 21        | 10.537      | 1305          | 1310        | 1313         | rBV3     | 1805           | 2968          | 0.86%           | 0.123%        |
| 22        | 10.907      | 1365          | 1373        | 1377         | rBV      | 85629          | 153535        | 44.53%          | 6.347%        |
| 23        | 10.960      | 1377          | 1382        | 1391         | rVB      | 154502         | 279718        | 81.13%          | 11.563%       |
| 24        | 11.077      | 1398          | 1402        | 1408         | rVB      | 5544           | 9355          | 2.71%           | 0.387%        |
| 25        | 12.452      | 1633          | 1636        | 1637         | rBV      | 644            | 567           | 0.16%           | 0.023%        |
| 26        | 12.558      | 1648          | 1654        | 1662         | rBB      | 29663          | 47969         | 13.91%          | 1.983%        |
| 27        | 12.676      | 1670          | 1674        | 1677         | rVB2     | 849            | 1199          | 0.35%           | 0.050%        |
| 28        | 12.775      | 1685          | 1691        | 1700         | rVB      | 17558          | 28003         | 8.12%           | 1.158%        |
| 29        | 13.199      | 1760          | 1763        | 1766         | rBV      | 549            | 695           | 0.20%           | 0.029%        |
| 30        | 13.557      | 1819          | 1824        | 1832         | rBB2     | 9437           | 14211         | 4.12%           | 0.587%        |
| 31        | 13.757      | 1853          | 1858        | 1863         | rBV2     | 837            | 1481          | 0.43%           | 0.061%        |
| 32        | 13.892      | 1876          | 1881        | 1886         | rBV4     | 1460           | 3163          | 0.92%           | 0.131%        |
| 33        | 14.039      | 1900          | 1906        | 1912         | rBV3     | 2240           | 3891          | 1.13%           | 0.161%        |
| 34        | 14.121      | 1912          | 1920        | 1928         | rVB2     | 5433           | 9552          | 2.77%           | 0.395%        |

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 Max Peaks: 100  
 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >  
 Peak separation: 5

Method : Z:\HPCHEM1\BNA\_G\METHODS\SOM02.2-EPA-BG121415.M  
 Title : SVOA CALIBRATION

|    |        |      |      |      |      |        |        |        |         |
|----|--------|------|------|------|------|--------|--------|--------|---------|
| 35 | 14.280 | 1943 | 1947 | 1951 | rBV  | 744    | 1174   | 0.34%  | 0.049%  |
| 36 | 14.415 | 1965 | 1970 | 1982 | rVV2 | 7095   | 16048  | 4.65%  | 0.663%  |
| 37 | 14.726 | 2011 | 2023 | 2028 | rBV2 | 134527 | 219618 | 63.70% | 9.079%  |
| 38 | 14.785 | 2028 | 2033 | 2040 | rVV  | 64511  | 103204 | 29.93% | 4.266%  |
| 39 | 14.850 | 2040 | 2044 | 2053 | rVB  | 15185  | 23785  | 6.90%  | 0.983%  |
| 40 | 14.996 | 2065 | 2069 | 2070 | rBV2 | 1509   | 1609   | 0.47%  | 0.067%  |
| 41 | 15.026 | 2073 | 2074 | 2082 | rVV2 | 920    | 1549   | 0.45%  | 0.064%  |
| 42 | 15.120 | 2084 | 2090 | 2100 | rVB2 | 30546  | 55690  | 16.15% | 2.302%  |
| 43 | 15.190 | 2100 | 2102 | 2105 | rBV2 | 533    | 588    | 0.17%  | 0.024%  |
| 44 | 15.408 | 2137 | 2139 | 2142 | rBV  | 377    | 559    | 0.16%  | 0.023%  |
| 45 | 15.543 | 2159 | 2162 | 2164 | rBV  | 472    | 505    | 0.15%  | 0.021%  |
| 46 | 15.713 | 2185 | 2191 | 2195 | rBV  | 10899  | 15809  | 4.59%  | 0.654%  |
| 47 | 15.766 | 2195 | 2200 | 2208 | rVV  | 39482  | 56417  | 16.36% | 2.332%  |
| 48 | 15.866 | 2212 | 2217 | 2218 | rBV  | 880    | 1081   | 0.31%  | 0.045%  |
| 49 | 15.889 | 2218 | 2221 | 2225 | rVV2 | 1710   | 2805   | 0.81%  | 0.116%  |
| 50 | 15.936 | 2225 | 2229 | 2231 | rVV3 | 2278   | 2951   | 0.86%  | 0.122%  |
| 51 | 15.978 | 2234 | 2236 | 2238 | rBV  | 545    | 584    | 0.17%  | 0.024%  |
| 52 | 16.013 | 2241 | 2242 | 2245 | rVV  | 926    | 891    | 0.26%  | 0.037%  |
| 53 | 16.060 | 2246 | 2250 | 2254 | rVB  | 2094   | 2876   | 0.83%  | 0.119%  |
| 54 | 16.166 | 2267 | 2268 | 2271 | rBV2 | 550    | 649    | 0.19%  | 0.027%  |
| 55 | 16.207 | 2271 | 2275 | 2282 | rVB2 | 2634   | 4850   | 1.41%  | 0.200%  |
| 56 | 16.289 | 2287 | 2289 | 2294 | rBV  | 551    | 813    | 0.24%  | 0.034%  |
| 57 | 16.354 | 2297 | 2300 | 2303 | rBV  | 418    | 547    | 0.16%  | 0.023%  |
| 58 | 16.559 | 2332 | 2335 | 2340 | rVB3 | 1508   | 1980   | 0.57%  | 0.082%  |
| 59 | 16.612 | 2342 | 2344 | 2348 | rVV  | 629    | 884    | 0.26%  | 0.037%  |
| 60 | 16.642 | 2348 | 2349 | 2353 | rVB2 | 599    | 714    | 0.21%  | 0.030%  |
| 61 | 16.724 | 2359 | 2363 | 2365 | rBV  | 792    | 1248   | 0.36%  | 0.052%  |
| 62 | 16.771 | 2369 | 2371 | 2378 | rVB2 | 880    | 1165   | 0.34%  | 0.048%  |
| 63 | 16.918 | 2393 | 2396 | 2400 | rVB2 | 764    | 840    | 0.24%  | 0.035%  |
| 64 | 17.123 | 2425 | 2431 | 2435 | rBV2 | 1315   | 1861   | 0.54%  | 0.077%  |
| 65 | 17.182 | 2438 | 2441 | 2443 | rVB  | 493    | 497    | 0.14%  | 0.021%  |
| 66 | 17.206 | 2443 | 2445 | 2448 | rBV  | 427    | 544    | 0.16%  | 0.022%  |
| 67 | 17.253 | 2448 | 2453 | 2455 | rBV3 | 1165   | 1832   | 0.53%  | 0.076%  |
| 68 | 17.288 | 2455 | 2459 | 2464 | rVB  | 3610   | 5276   | 1.53%  | 0.218%  |
| 69 | 17.411 | 2477 | 2480 | 2483 | rBV  | 877    | 1118   | 0.32%  | 0.046%  |
| 70 | 17.464 | 2483 | 2489 | 2494 | rVV2 | 177328 | 284414 | 82.50% | 11.757% |
| 71 | 17.511 | 2494 | 2497 | 2502 | rVV  | 76179  | 107326 | 31.13% | 4.437%  |

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 Title : SVOA CALIBRATION

|     |        |      |      |      |      |        |        |         |         |
|-----|--------|------|------|------|------|--------|--------|---------|---------|
| 72  | 17.564 | 2502 | 2506 | 2510 | rVV2 | 12142  | 19227  | 5.58%   | 0.795%  |
| 73  | 17.599 | 2510 | 2512 | 2518 | rVB3 | 4033   | 4677   | 1.36%   | 0.193%  |
| 74  | 17.828 | 2548 | 2551 | 2552 | rBV3 | 655    | 564    | 0.16%   | 0.023%  |
| 75  | 17.870 | 2552 | 2558 | 2567 | rVV  | 48979  | 71860  | 20.84%  | 2.971%  |
| 76  | 17.975 | 2570 | 2576 | 2578 | rVV2 | 1440   | 2961   | 0.86%   | 0.122%  |
| 77  | 18.028 | 2581 | 2585 | 2590 | rVV2 | 1776   | 3000   | 0.87%   | 0.124%  |
| 78  | 18.116 | 2594 | 2600 | 2603 | rVB3 | 904    | 1517   | 0.44%   | 0.063%  |
| 79  | 18.304 | 2627 | 2632 | 2635 | rBV4 | 783    | 1070   | 0.31%   | 0.044%  |
| 80  | 18.345 | 2635 | 2639 | 2642 | rVB2 | 1762   | 2049   | 0.59%   | 0.085%  |
| 81  | 18.387 | 2642 | 2646 | 2650 | rBV3 | 7048   | 10187  | 2.95%   | 0.421%  |
| 82  | 18.422 | 2650 | 2652 | 2655 | rVB2 | 498    | 653    | 0.19%   | 0.027%  |
| 83  | 18.469 | 2655 | 2660 | 2664 | rBV3 | 1455   | 2244   | 0.65%   | 0.093%  |
| 84  | 18.539 | 2668 | 2672 | 2676 | rBV2 | 4780   | 7523   | 2.18%   | 0.311%  |
| 85  | 18.639 | 2681 | 2689 | 2692 | rVV4 | 2317   | 4207   | 1.22%   | 0.174%  |
| 86  | 18.686 | 2693 | 2697 | 2702 | rVV2 | 2813   | 4423   | 1.28%   | 0.183%  |
| 87  | 18.774 | 2706 | 2712 | 2717 | rVB4 | 2474   | 4580   | 1.33%   | 0.189%  |
| 88  | 18.833 | 2717 | 2722 | 2726 | rBV2 | 1817   | 2794   | 0.81%   | 0.115%  |
| 89  | 18.880 | 2726 | 2730 | 2736 | rVB3 | 2169   | 3416   | 0.99%   | 0.141%  |
| 90  | 19.403 | 2817 | 2819 | 2822 | rBV  | 632    | 719    | 0.21%   | 0.030%  |
| 91  | 19.515 | 2831 | 2838 | 2845 | rBV2 | 16929  | 24989  | 7.25%   | 1.033%  |
| 92  | 19.568 | 2845 | 2847 | 2849 | rVB2 | 684    | 470    | 0.14%   | 0.019%  |
| 93  | 19.703 | 2868 | 2870 | 2872 | rVB  | 834    | 507    | 0.15%   | 0.021%  |
| 94  | 19.756 | 2878 | 2879 | 2882 | rBV2 | 895    | 878    | 0.25%   | 0.036%  |
| 95  | 19.850 | 2890 | 2895 | 2898 | rBV  | 14981  | 24241  | 7.03%   | 1.002%  |
| 96  | 20.055 | 2928 | 2930 | 2931 | rVB2 | 1280   | 647    | 0.19%   | 0.027%  |
| 97  | 20.231 | 2957 | 2960 | 2961 | rBV2 | 1122   | 1096   | 0.32%   | 0.045%  |
| 98  | 20.255 | 2961 | 2964 | 2967 | rBV2 | 3881   | 5255   | 1.52%   | 0.217%  |
| 99  | 21.741 | 3211 | 3217 | 3231 | rBV2 | 181559 | 344765 | 100.00% | 14.252% |
| 100 | 25.014 | 3765 | 3774 | 3790 | rBV  | 65045  | 233942 | 67.86%  | 9.671%  |

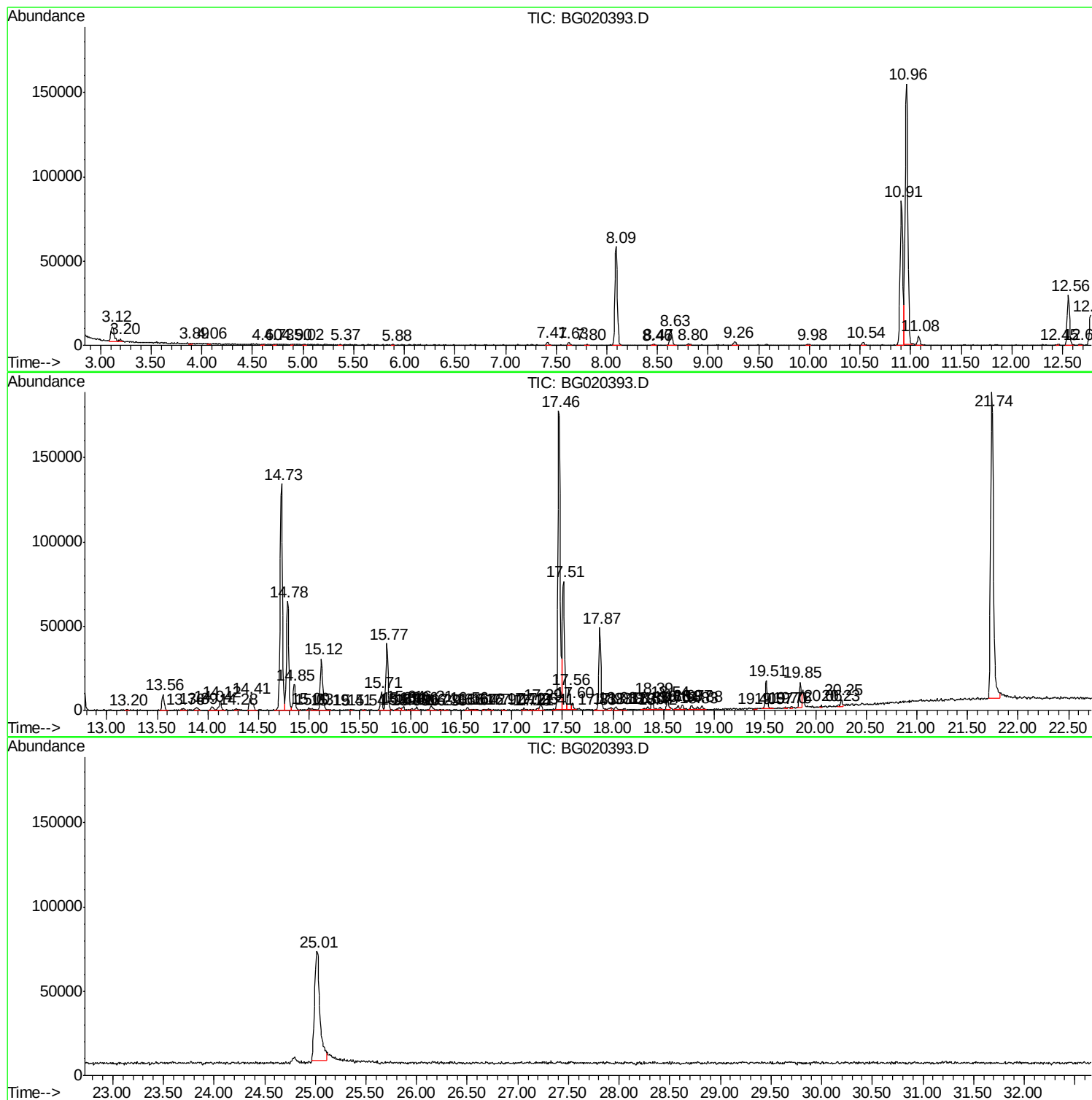
Sum of corrected areas: 2419083

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Quant Method : Z:\HPCHEM1\BNA G\METHODS\SOM02.2-EPA-BG121415.M  
Quant Title : SVOA CALIBRATION

TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P



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Quant Method : Z:\HPCHEM1\BNA G\METHODS\SOM02.2-EPA-BG121415.M  
Quant Title : SVOA CALIBRATION

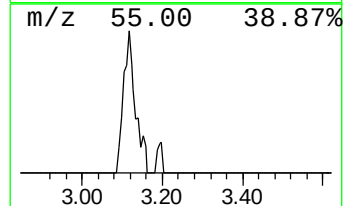
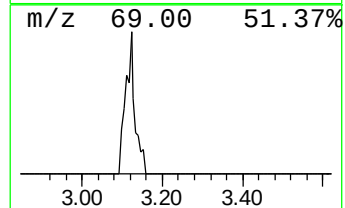
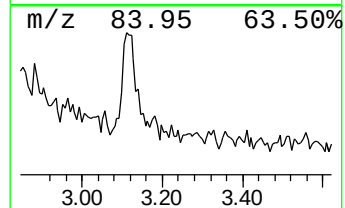
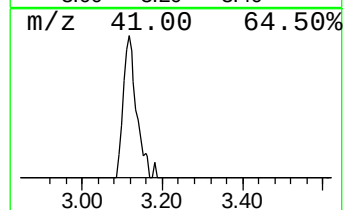
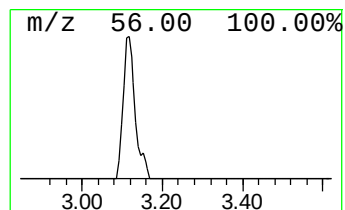
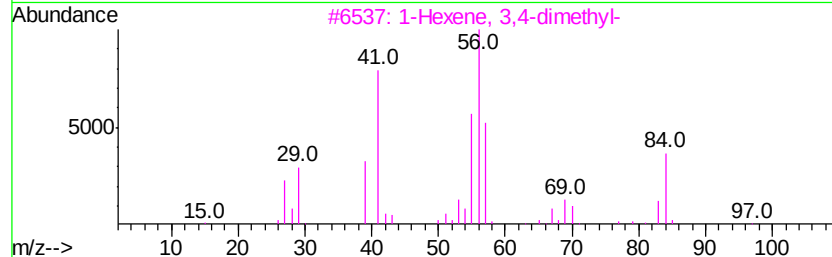
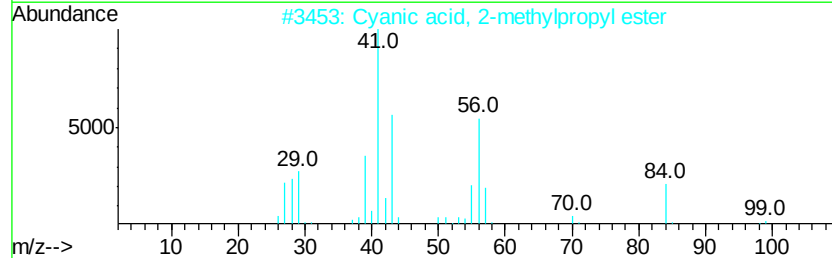
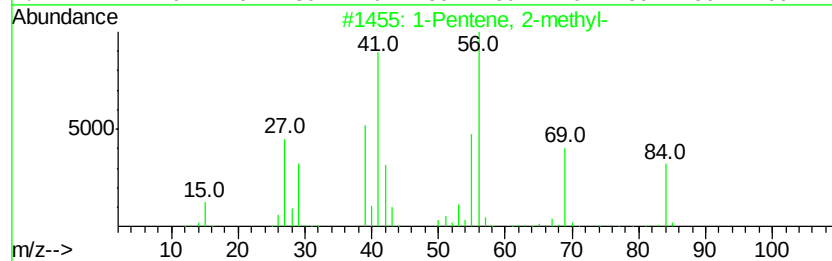
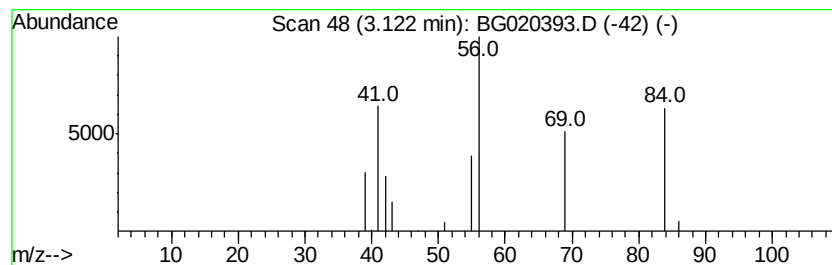
TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 1 (DEL) Alkane: Cyclic3.12 Concentration Rank 1

| R.T. | EstConc    | Area  | Relative to ISTD       | R.T. |
|------|------------|-------|------------------------|------|
| 3.12 | 3.93 ng/ul | 19314 | 1,4-Dichlorobenzene-d4 | 8.09 |

| Hit# | of | Tentative ID                       | MW  | MolForm | CAS#        | Qual |
|------|----|------------------------------------|-----|---------|-------------|------|
| 1    | 5  | 1-Pentene, 2-methyl-               | 84  | C6H12   | 000763-29-1 | 56   |
| 2    |    | Cyanoic acid, 2-methylpropyl ester | 99  | C5H9NO  | 001768-25-8 | 56   |
| 3    |    | 1-Hexene, 3,4-dimethyl-            | 112 | C8H16   | 016745-94-1 | 50   |
| 4    |    | Pentane, 3-methylene-              | 84  | C6H12   | 000760-21-4 | 12   |
| 5    |    | 2-Pentene, 3-methyl-, (Z)-         | 84  | C6H12   | 000922-62-3 | 9    |



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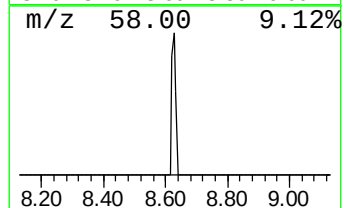
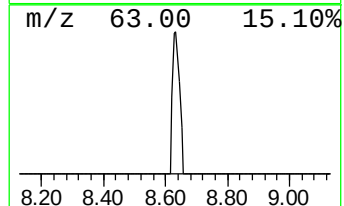
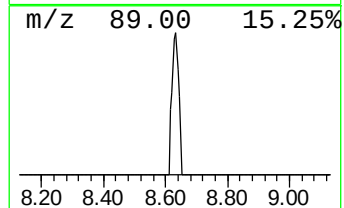
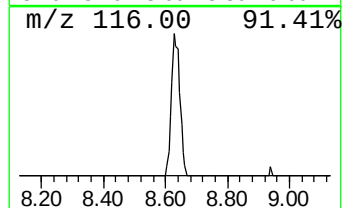
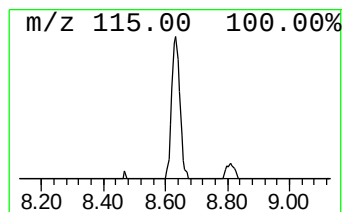
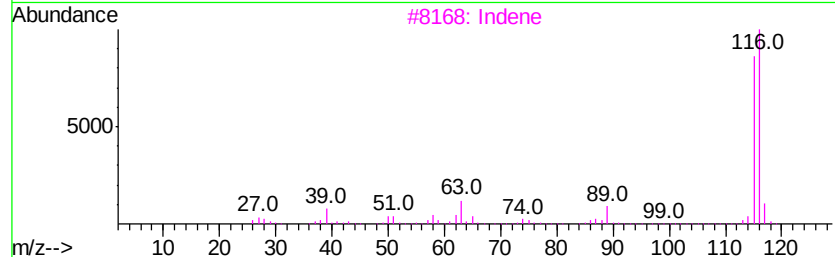
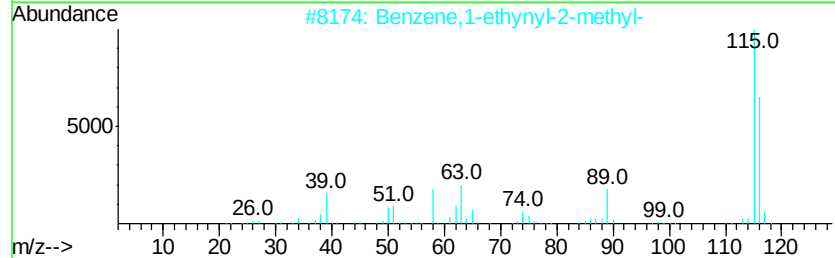
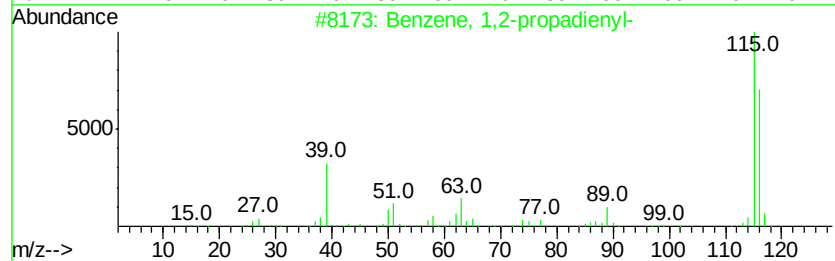
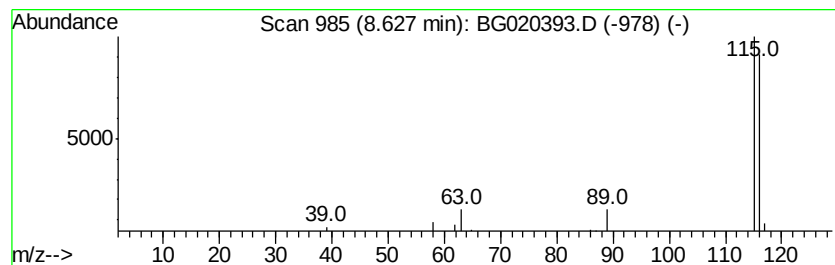
Quant Method : Z:\HPCHEM1\BNA G\METHODS\SOM02.2-EPA-BG121415.M  
Quant Title : SVOA CALIBRATION

TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 2 Benzene, 1,2-propadienyl- Concentration Rank 3

| R.T. | EstConc    | Area  | Relative to ISTD       | R.T. |
|------|------------|-------|------------------------|------|
| 8.63 | 3.27 ng/ul | 16045 | 1,4-Dichlorobenzene-d4 | 8.09 |

| Hit# | of | 5 | Tentative ID                | MW  | MolForm | CAS#        | Qual |
|------|----|---|-----------------------------|-----|---------|-------------|------|
| 1    |    |   | Benzene, 1,2-propadienyl-   | 116 | C9H8    | 002327-99-3 | 90   |
| 2    |    |   | Benzene,1-ethynyl-2-methyl- | 116 | C9H8    | 000766-47-2 | 90   |
| 3    |    |   | Indene                      | 116 | C9H8    | 000095-13-6 | 90   |
| 4    |    |   | Benzene, 1-propynyl-        | 116 | C9H8    | 000673-32-5 | 90   |
| 5    |    |   | Benzene, 1-propynyl-        | 116 | C9H8    | 000673-32-5 | 90   |



Data Path : Z:\HPCHEM1\BNA G\DATA\BG122115\  
Data File : BG020393.D  
Acq On : 22 Dec 2015 1:37  
Operator : UM/SJ  
Sample : G4768-18DL 30X  
Misc :  
ALS Vial : 14 Sample Multiplier: 1

Instrument :  
BNA\_G  
ClientSampleId :  
D9N42DL

Quant Method : Z:\HPCHEM1\BNA G\METHODS\SOM02.2-EPA-BG121415.M  
Quant Title : SVOA CALIBRATION

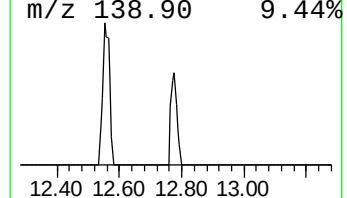
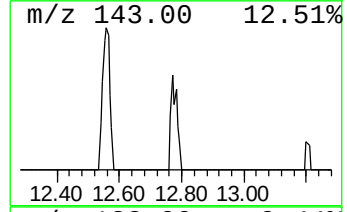
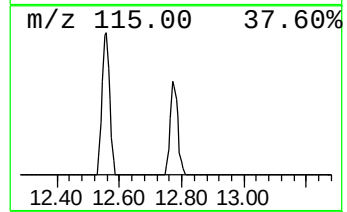
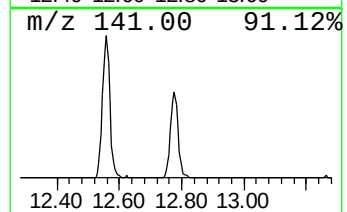
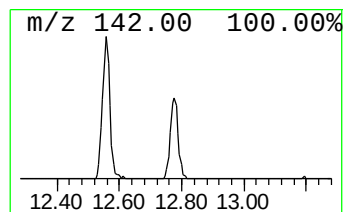
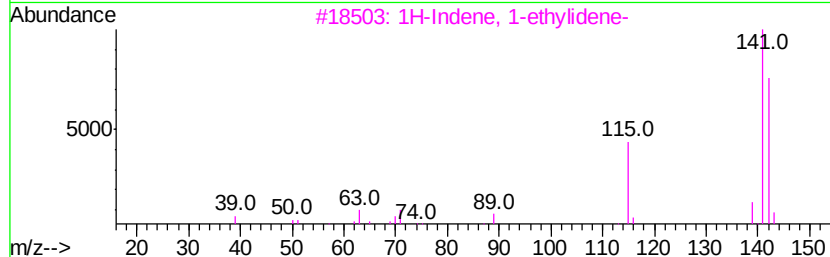
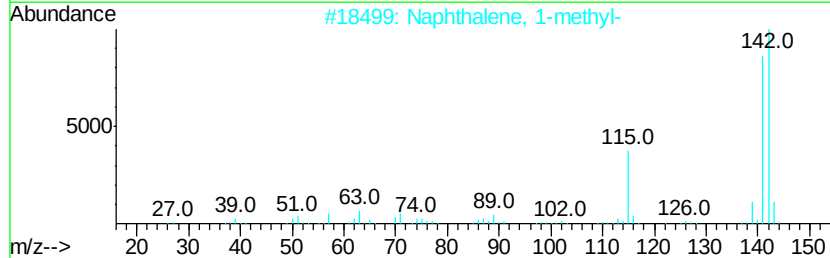
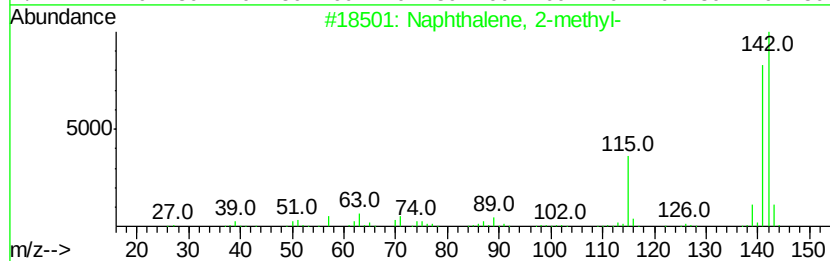
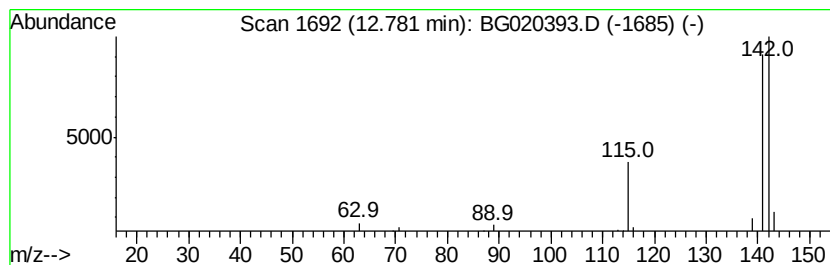
TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 3 Naphthalene, 1-methyl- Concentration Rank 2

| R.T.  | EstConc    | Area  | Relative to ISTD | R.T.  |
|-------|------------|-------|------------------|-------|
| 12.78 | 3.65 ng/ul | 28003 | Naphthalene-d8   | 10.91 |

| Hit# | of | Tentative ID             | MW  | MolForm | CAS#        | Qual |
|------|----|--------------------------|-----|---------|-------------|------|
| 1    | 5  | Naphthalene, 2-methyl-   | 142 | C11H10  | 000091-57-6 | 91   |
| 2    |    | Naphthalene, 1-methyl-   | 142 | C11H10  | 000090-12-0 | 91   |
| 3    |    | 1H-Indene, 1-ethylidene- | 142 | C11H10  | 002471-83-2 | 91   |
| 4    |    | Benzocycloheptatriene    | 142 | C11H10  | 000264-09-5 | 91   |
| 5    |    | Benzocycloheptatriene    | 142 | C11H10  | 000264-09-5 | 90   |



Data Path : Z:\HPCHEM1\BNA G\DATA\BG122115\  
Data File : BG020393.D  
Acq On : 22 Dec 2015 1:37  
Operator : UM/SJ  
Sample : G4768-18DL 30X  
Misc :  
ALS Vial : 14 Sample Multiplier: 1

Instrument :  
BNA\_G  
ClientSampleId :  
D9N42DL

Quant Method : Z:\HPCHEM1\BNA G\METHODS\SOM02.2-EPA-BG121415.M  
Quant Title : SVOA CALIBRATION

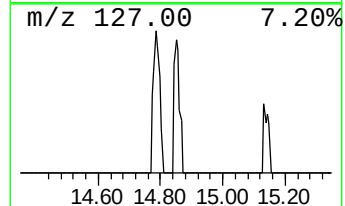
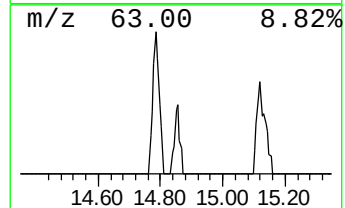
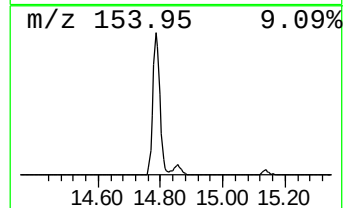
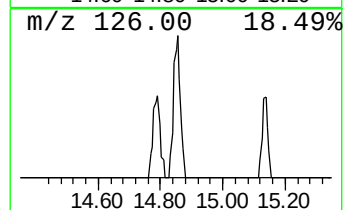
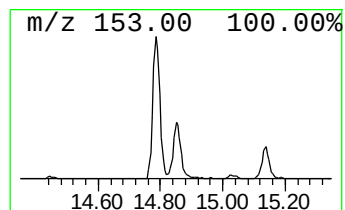
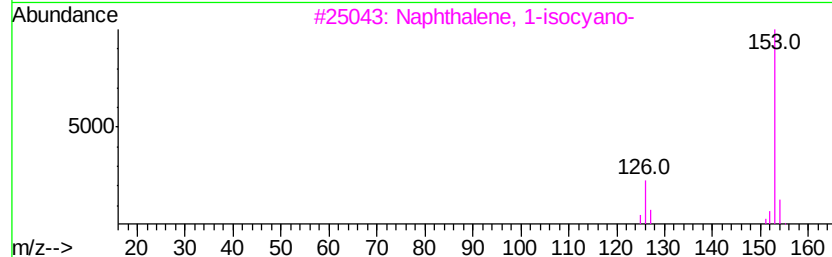
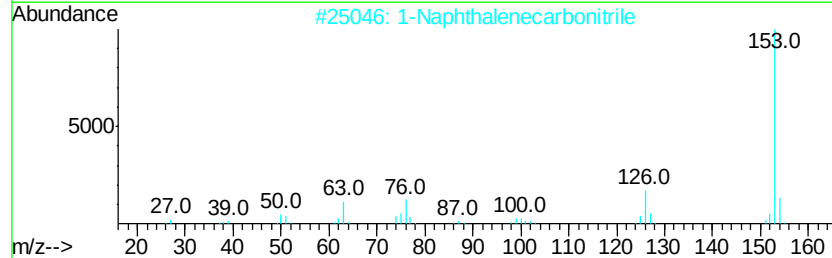
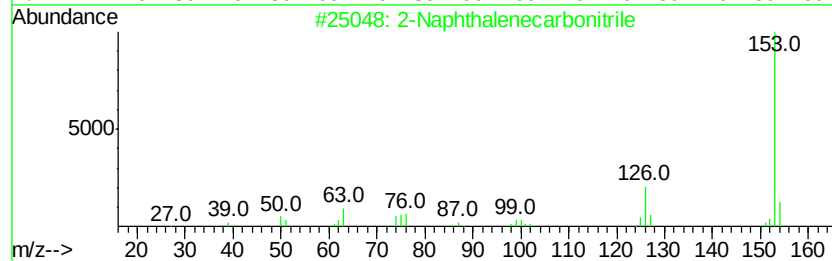
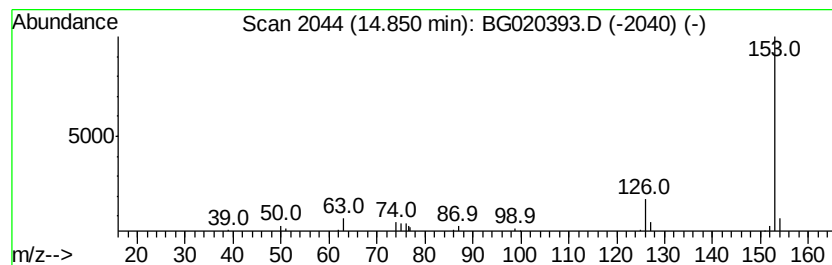
TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 4 2-Naphthalenecarbonitrile Concentration Rank 4

| R.T.  | EstConc    | Area  | Relative to ISTD | R.T.  |
|-------|------------|-------|------------------|-------|
| 14.85 | 2.17 ng/ul | 23785 | Acenaphthene-d10 | 14.73 |

| Hit# | of | 5 | Tentative ID              | MW  | MolForm | CAS#        | Qual |
|------|----|---|---------------------------|-----|---------|-------------|------|
| 1    |    |   | 2-Naphthalenecarbonitrile | 153 | C11H7N  | 000613-46-7 | 91   |
| 2    |    |   | 1-Naphthalenecarbonitrile | 153 | C11H7N  | 000086-53-3 | 91   |
| 3    |    |   | Naphthalene, 1-isocvano-  | 153 | C11H7N  | 001984-04-9 | 90   |
| 4    |    |   | 2-Naphthalenecarbonitrile | 153 | C11H7N  | 000613-46-7 | 87   |
| 5    |    |   | 2-Naphthalenecarbonitrile | 153 | C11H7N  | 000613-46-7 | 86   |





Data Path : Z:\HPCHEM1\BNA\_G\DATA\BG122115\  
Data File : BG020393.D  
Acq On : 22 Dec 2015 1:37  
Operator : UM/SJ  
Sample : G4768-18DL 30X  
Misc :  
ALS Vial : 14 Sample Multiplier: 1

Instrument :  
BNA\_G  
ClientSampleId :  
D9N42DL

Quant Method : Z:\HPCHEM1\BNA\_G\METHODS\SOM02.2-EPA-BG121415.M  
Quant Title : SVOA CALIBRATION

TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P

| TIC Top Hit name     | RT    | EstConc | Units | Response | --Internal Standard-- |       |        |      |
|----------------------|-------|---------|-------|----------|-----------------------|-------|--------|------|
|                      |       |         |       |          | #                     | RT    | Resp   | Conc |
| (DEL) Alkane: Cyc... | 3.12  | 3.9     | ng/ul | 19314    | 1                     | 8.09  | 98219  | 20.0 |
| Benzene, 1,2-prop... | 8.63  | 3.3     | ng/ul | 16045    | 1                     | 8.09  | 98219  | 20.0 |
| Naphthalene, 1-me... | 12.78 | 3.6     | ng/ul | 28003    | 2                     | 10.91 | 153535 | 20.0 |
| 2-Naphthalenecarb... | 14.85 | 2.2     | ng/ul | 23785    | 3                     | 14.73 | 219618 | 20.0 |