

Data Path : Z:\HPCHEM1\BNA\_G\DATA\BG080717\  
 Data File : BG028156.D  
 Acq On : 7 Aug 2017 15:03  
 Operator : SJ/JU  
 Sample : I4578-04  
 Misc :  
 ALS Vial : 8 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleId :  
 C02T7

## Integration Parameters: LSCINT.P

Integrator: RTE  
 Smoothing : ON  
 Sampling : 1  
 Start Thrs: 0.1  
 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: 1

Method : Z:\HPCHEM1\BNA\_G\METHODS\SOM-EPA-BG080217.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         | 3.843       | 37            | 43          | 46           | rBV2     | 14271          | 20920         | 1.41%           | 0.156%        |
| 2         | 3.884       | 47            | 50          | 58           | rVB5     | 11139          | 18807         | 1.27%           | 0.140%        |
| 3         | 4.266       | 114           | 115         | 119          | rVB2     | 2123           | 2210          | 0.15%           | 0.016%        |
| 4         | 4.343       | 124           | 128         | 131          | rBV3     | 1373           | 2561          | 0.17%           | 0.019%        |
| 5         | 4.384       | 131           | 135         | 139          | rVB3     | 2678           | 4179          | 0.28%           | 0.031%        |
| 6         | 5.148       | 263           | 265         | 268          | rVB3     | 1660           | 2011          | 0.14%           | 0.015%        |
| 7         | 5.230       | 277           | 279         | 285          | rBV4     | 1156           | 2148          | 0.15%           | 0.016%        |
| 8         | 5.477       | 316           | 321         | 327          | rVB3     | 1877           | 2953          | 0.20%           | 0.022%        |
| 9         | 5.859       | 383           | 386         | 390          | rVB4     | 2519           | 3080          | 0.21%           | 0.023%        |
| 10        | 5.906       | 390           | 394         | 395          | rBV3     | 1821           | 2165          | 0.15%           | 0.016%        |
| 11        | 6.146       | 433           | 435         | 438          | rBV2     | 1453           | 2038          | 0.14%           | 0.015%        |
| 12        | 6.487       | 490           | 493         | 497          | rBV      | 1984           | 2525          | 0.17%           | 0.019%        |
| 13        | 6.569       | 505           | 507         | 513          | rVB4     | 2493           | 3932          | 0.27%           | 0.029%        |
| 14        | 6.787       | 542           | 544         | 548          | rVB3     | 1573           | 2130          | 0.14%           | 0.016%        |
| 15        | 6.846       | 548           | 554         | 560          | rBV3     | 1525           | 4053          | 0.27%           | 0.030%        |
| 16        | 7.398       | 647           | 648         | 653          | rBV2     | 1989           | 2950          | 0.20%           | 0.022%        |
| 17        | 7.510       | 659           | 667         | 683          | rBV      | 40532          | 78903         | 5.33%           | 0.587%        |
| 18        | 7.680       | 688           | 696         | 705          | rBV      | 127311         | 218870        | 14.79%          | 1.628%        |
| 19        | 7.774       | 708           | 712         | 715          | rVB3     | 1482           | 2789          | 0.19%           | 0.021%        |
| 20        | 7.809       | 715           | 718         | 722          | rBV3     | 1465           | 2094          | 0.14%           | 0.016%        |
| 21        | 7.897       | 725           | 733         | 744          | rBV      | 137291         | 243905        | 16.48%          | 1.814%        |
| 22        | 8.361       | 804           | 812         | 822          | rVB      | 141318         | 251887        | 17.02%          | 1.874%        |
| 23        | 8.503       | 831           | 836         | 841          | rBV3     | 1830           | 2122          | 0.14%           | 0.016%        |
| 24        | 8.820       | 887           | 890         | 892          | rVB3     | 1985           | 1967          | 0.13%           | 0.015%        |
| 25        | 9.055       | 923           | 930         | 940          | rBV3     | 105955         | 204423        | 13.82%          | 1.521%        |
| 26        | 9.213       | 956           | 957         | 964          | rVB3     | 1646           | 3029          | 0.20%           | 0.023%        |
| 27        | 9.531       | 1003          | 1011        | 1022         | rBV      | 173891         | 323410        | 21.86%          | 2.406%        |
| 28        | 9.918       | 1071          | 1077        | 1079         | rBV2     | 1182           | 2424          | 0.16%           | 0.018%        |
| 29        | 10.253      | 1124          | 1134        | 1145         | rBV      | 143787         | 279250        | 18.87%          | 2.077%        |
| 30        | 10.400      | 1155          | 1159        | 1162         | rBV2     | 1893           | 2156          | 0.15%           | 0.016%        |
| 31        | 10.565      | 1179          | 1187        | 1189         | rVB      | 1632           | 3210          | 0.22%           | 0.024%        |
| 32        | 10.800      | 1219          | 1227        | 1239         | rBV      | 180835         | 361583        | 24.44%          | 2.690%        |
| 33        | 11.000      | 1257          | 1261        | 1263         | rBV2     | 1493           | 2045          | 0.14%           | 0.015%        |
| 34        | 11.182      | 1283          | 1292        | 1300         | rVB      | 199428         | 372280        | 25.16%          | 2.769%        |

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 Title : SVOA CALIBRATION

|    |        |      |      |      |      |        |         |        |        |
|----|--------|------|------|------|------|--------|---------|--------|--------|
| 35 | 11.329 | 1308 | 1317 | 1323 | rBV6 | 8472   | 19934   | 1.35%  | 0.148% |
| 36 | 11.687 | 1376 | 1378 | 1383 | rBV2 | 1247   | 2055    | 0.14%  | 0.015% |
| 37 | 11.799 | 1389 | 1397 | 1401 | rVB2 | 1308   | 2671    | 0.18%  | 0.020% |
| 38 | 11.869 | 1401 | 1409 | 1412 | rBV2 | 1341   | 2781    | 0.19%  | 0.021% |
| 39 | 12.010 | 1432 | 1433 | 1441 | rBV3 | 1891   | 2823    | 0.19%  | 0.021% |
| 40 | 12.175 | 1455 | 1461 | 1464 | rBV2 | 1379   | 1992    | 0.13%  | 0.015% |
| 41 | 12.445 | 1501 | 1507 | 1515 | rBV  | 1353   | 3988    | 0.27%  | 0.030% |
| 42 | 12.733 | 1552 | 1556 | 1561 | rBV3 | 2757   | 5385    | 0.36%  | 0.040% |
| 43 | 13.080 | 1608 | 1615 | 1622 | rBV2 | 1440   | 3371    | 0.23%  | 0.025% |
| 44 | 13.561 | 1692 | 1697 | 1699 | rBV2 | 2077   | 2931    | 0.20%  | 0.022% |
| 45 | 13.591 | 1699 | 1702 | 1710 | rVB3 | 3631   | 6552    | 0.44%  | 0.049% |
| 46 | 13.837 | 1738 | 1744 | 1748 | rBV3 | 3589   | 5331    | 0.36%  | 0.040% |
| 47 | 13.955 | 1760 | 1764 | 1769 | rBV2 | 2124   | 2991    | 0.20%  | 0.022% |
| 48 | 14.272 | 1812 | 1818 | 1823 | rVB2 | 1539   | 3705    | 0.25%  | 0.028% |
| 49 | 14.354 | 1823 | 1832 | 1845 | rBV  | 482847 | 758033  | 51.23% | 5.639% |
| 50 | 14.666 | 1875 | 1885 | 1902 | rBV  | 470306 | 761119  | 51.44% | 5.662% |
| 51 | 14.971 | 1927 | 1937 | 1946 | rBV2 | 339609 | 579765  | 39.18% | 4.313% |
| 52 | 15.165 | 1964 | 1970 | 1982 | rBV4 | 25096  | 61492   | 4.16%  | 0.457% |
| 53 | 15.318 | 1993 | 1996 | 2001 | rVB3 | 2561   | 3979    | 0.27%  | 0.030% |
| 54 | 15.377 | 2001 | 2006 | 2009 | rBV3 | 2652   | 3788    | 0.26%  | 0.028% |
| 55 | 15.424 | 2013 | 2014 | 2022 | rBV  | 1419   | 2107    | 0.14%  | 0.016% |
| 56 | 15.565 | 2032 | 2038 | 2043 | rBV4 | 1610   | 3583    | 0.24%  | 0.027% |
| 57 | 15.735 | 2061 | 2067 | 2068 | rBV2 | 1658   | 2269    | 0.15%  | 0.017% |
| 58 | 15.953 | 2097 | 2104 | 2114 | rBV  | 647216 | 1044419 | 70.59% | 7.770% |
| 59 | 16.064 | 2115 | 2123 | 2139 | rVB  | 236425 | 378373  | 25.57% | 2.815% |
| 60 | 16.199 | 2141 | 2146 | 2150 | rVB2 | 6590   | 11036   | 0.75%  | 0.082% |
| 61 | 16.693 | 2225 | 2230 | 2234 | rBV3 | 1523   | 3153    | 0.21%  | 0.023% |
| 62 | 16.828 | 2248 | 2253 | 2259 | rBV2 | 1570   | 2248    | 0.15%  | 0.017% |
| 63 | 17.204 | 2311 | 2317 | 2320 | rVB  | 1052   | 2079    | 0.14%  | 0.015% |
| 64 | 17.239 | 2320 | 2323 | 2328 | rBV  | 1583   | 2662    | 0.18%  | 0.020% |
| 65 | 17.504 | 2361 | 2368 | 2371 | rBV3 | 2147   | 3943    | 0.27%  | 0.029% |
| 66 | 17.715 | 2391 | 2404 | 2413 | rBV  | 500965 | 795950  | 53.79% | 5.921% |
| 67 | 17.815 | 2413 | 2421 | 2430 | rVV  | 820904 | 1269120 | 85.77% | 9.441% |
| 68 | 17.892 | 2430 | 2434 | 2440 | rVB4 | 5388   | 8444    | 0.57%  | 0.063% |
| 69 | 17.986 | 2448 | 2450 | 2455 | rVB3 | 1725   | 2174    | 0.15%  | 0.016% |
| 70 | 18.491 | 2530 | 2536 | 2544 | rBV4 | 1939   | 5628    | 0.38%  | 0.042% |
| 71 | 18.608 | 2553 | 2556 | 2559 | rVB3 | 2788   | 3585    | 0.24%  | 0.027% |

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|-----|--------|------|------|------|-------|---------|---------|---------|---------|
| 72  | 18.638 | 2559 | 2561 | 2566 | rBV5  | 2693    | 4678    | 0.32%   | 0.035%  |
| 73  | 18.973 | 2616 | 2618 | 2623 | rVB3  | 2324    | 3032    | 0.20%   | 0.023%  |
| 74  | 19.084 | 2636 | 2637 | 2642 | rBV4  | 1719    | 2211    | 0.15%   | 0.016%  |
| 75  | 19.149 | 2644 | 2648 | 2651 | rVB3  | 2966    | 4344    | 0.29%   | 0.032%  |
| 76  | 19.219 | 2656 | 2660 | 2661 | rBV3  | 1537    | 2065    | 0.14%   | 0.015%  |
| 77  | 19.278 | 2667 | 2670 | 2675 | rVB2  | 2862    | 2320    | 0.16%   | 0.017%  |
| 78  | 19.325 | 2675 | 2678 | 2681 | rVB3  | 1761    | 2214    | 0.15%   | 0.016%  |
| 79  | 19.443 | 2697 | 2698 | 2701 | rBV3  | 2148    | 2164    | 0.15%   | 0.016%  |
| 80  | 19.731 | 2741 | 2747 | 2751 | rBV3  | 7843    | 13429   | 0.91%   | 0.100%  |
| 81  | 19.913 | 2776 | 2778 | 2780 | rBV3  | 2994    | 2643    | 0.18%   | 0.020%  |
| 82  | 19.971 | 2780 | 2788 | 2796 | rVV6  | 8955    | 20338   | 1.37%   | 0.151%  |
| 83  | 20.089 | 2796 | 2808 | 2821 | rVV   | 1008855 | 1479636 | 100.00% | 11.007% |
| 84  | 20.295 | 2840 | 2843 | 2846 | rVB4  | 3759    | 4914    | 0.33%   | 0.037%  |
| 85  | 20.453 | 2867 | 2870 | 2871 | rBV3  | 2770    | 2670    | 0.18%   | 0.020%  |
| 86  | 20.559 | 2885 | 2888 | 2892 | rVB5  | 3056    | 3518    | 0.24%   | 0.026%  |
| 87  | 20.606 | 2893 | 2896 | 2898 | rBV4  | 3198    | 3098    | 0.21%   | 0.023%  |
| 88  | 20.847 | 2934 | 2937 | 2941 | rVB6  | 4918    | 5399    | 0.36%   | 0.040%  |
| 89  | 21.393 | 3025 | 3030 | 3036 | rBV9  | 9632    | 23763   | 1.61%   | 0.177%  |
| 90  | 22.045 | 3133 | 3141 | 3151 | rBV   | 481742  | 875689  | 59.18%  | 6.514%  |
| 91  | 22.856 | 3275 | 3279 | 3283 | rVB6  | 8944    | 11753   | 0.79%   | 0.087%  |
| 92  | 23.602 | 3401 | 3406 | 3414 | rVB7  | 18624   | 39303   | 2.66%   | 0.292%  |
| 93  | 24.478 | 3550 | 3555 | 3564 | rVB5  | 23405   | 53015   | 3.58%   | 0.394%  |
| 94  | 24.742 | 3591 | 3600 | 3601 | rBV9  | 8725    | 22967   | 1.55%   | 0.171%  |
| 95  | 25.312 | 3686 | 3697 | 3710 | rVB2  | 428627  | 1321350 | 89.30%  | 9.830%  |
| 96  | 25.553 | 3724 | 3738 | 3754 | rVB   | 263545  | 915642  | 61.88%  | 6.812%  |
| 97  | 26.740 | 3930 | 3940 | 3952 | rVB3  | 34433   | 116482  | 7.87%   | 0.867%  |
| 98  | 28.226 | 4183 | 4193 | 4205 | rVB4  | 32216   | 129853  | 8.78%   | 0.966%  |
| 99  | 30.001 | 4487 | 4495 | 4505 | rVB8  | 22662   | 81890   | 5.53%   | 0.609%  |
| 100 | 32.169 | 4859 | 4864 | 4877 | rVB10 | 21785   | 81605   | 5.52%   | 0.607%  |

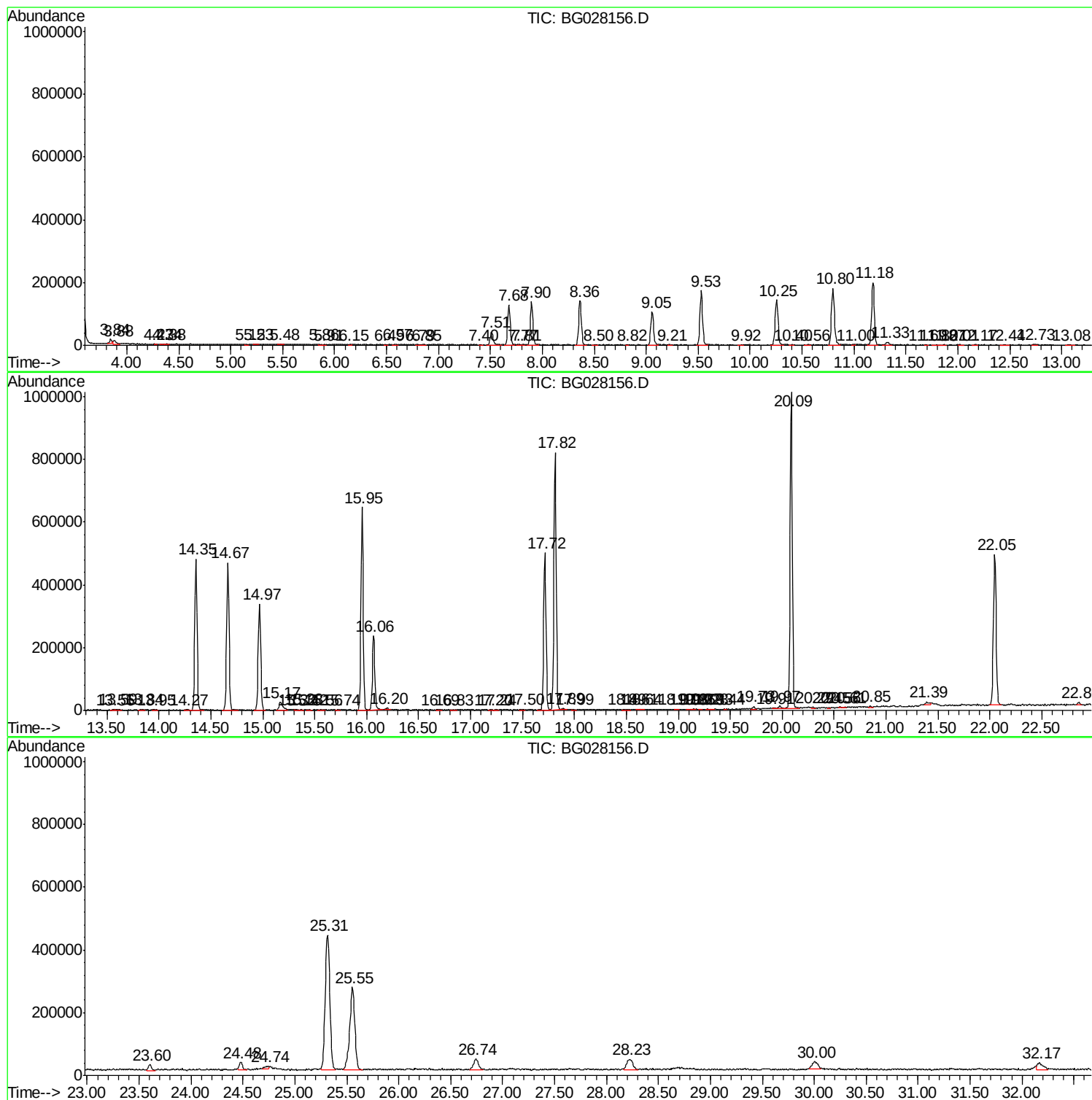
Sum of corrected areas: 13442453

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Quant Method : Z:\HPCHEM1\BNA\_G\METHODS\SOM-EPA-BG080217.M  
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TIC Library : C:\DATABASE\NIST11.L  
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Quant Title : SVOA CALIBRATION

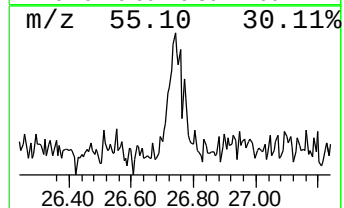
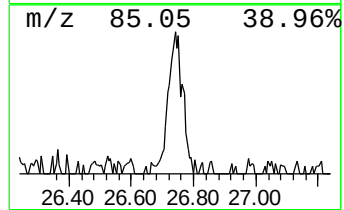
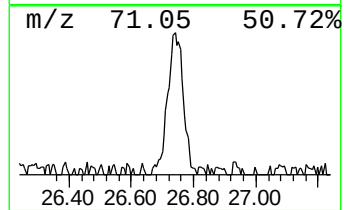
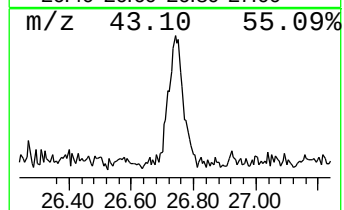
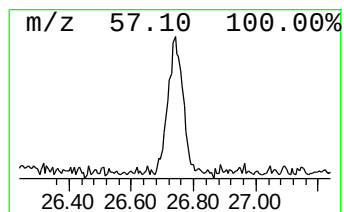
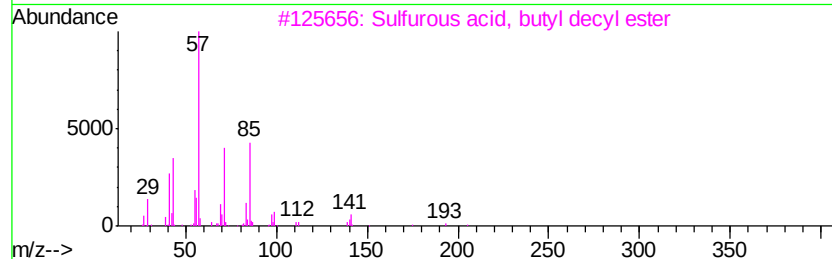
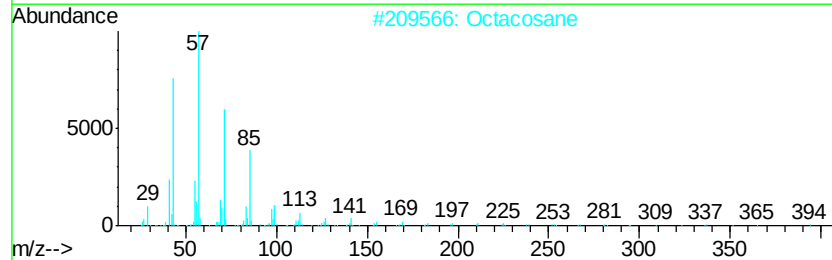
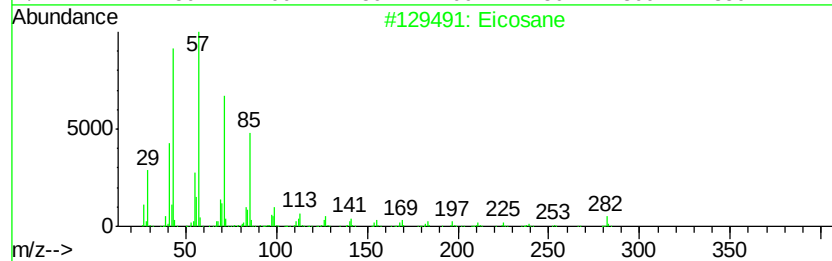
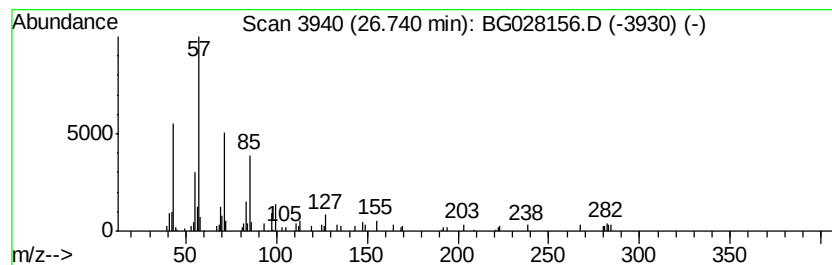
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 1 (DEL) Alkane: Straight-Chai... Concentration Rank 2

| R.T.  | EstConc    | Area   | Relative to ISTD | R.T.  |
|-------|------------|--------|------------------|-------|
| 26.74 | 2.54 ng/ul | 116482 | Perylene-d12     | 25.55 |

| Hit# | of | Tentative ID                      | MW  | MolForm   | CAS#         | Qual |
|------|----|-----------------------------------|-----|-----------|--------------|------|
| 1    | 5  | Eicosane                          | 282 | C20H42    | 000112-95-8  | 90   |
| 2    |    | Octacosane                        | 394 | C28H58    | 000630-02-4  | 83   |
| 3    |    | Sulfurous acid, butyl decyl ester | 278 | C14H30O3S | 1000309-17-7 | 80   |
| 4    |    | Heneicosane                       | 296 | C21H44    | 000629-94-7  | 80   |
| 5    |    | Eicosane                          | 282 | C20H42    | 000112-95-8  | 74   |



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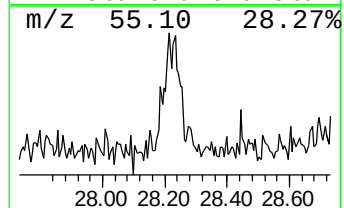
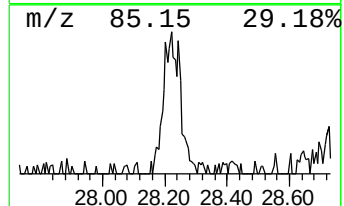
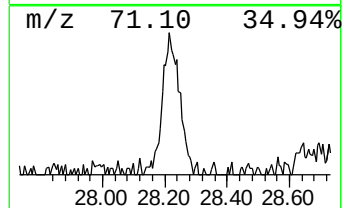
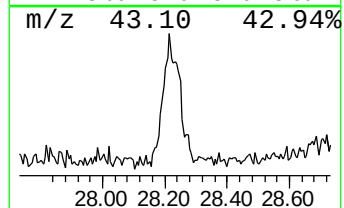
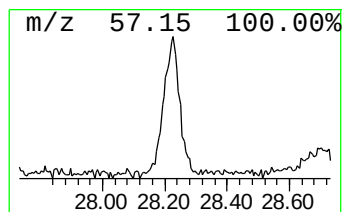
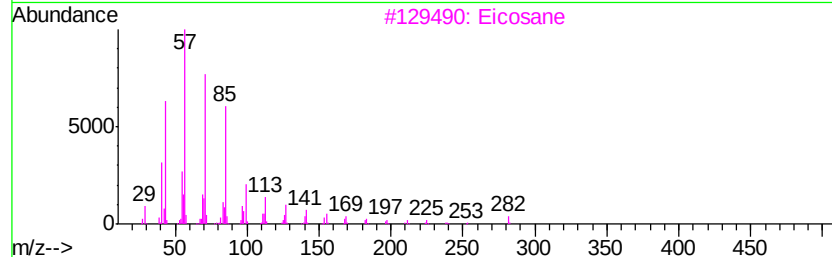
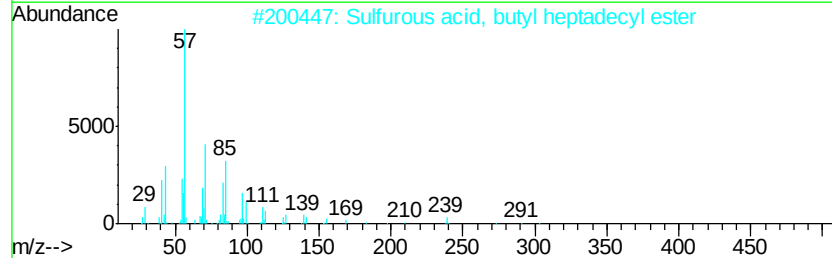
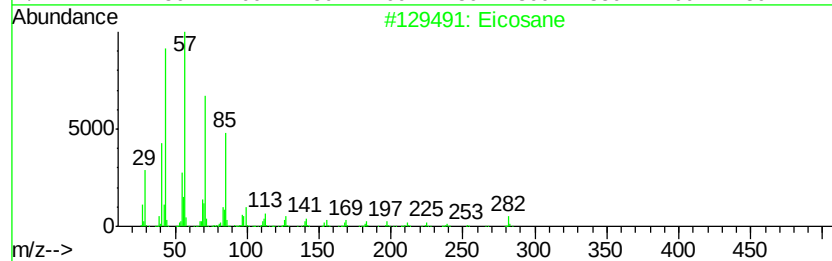
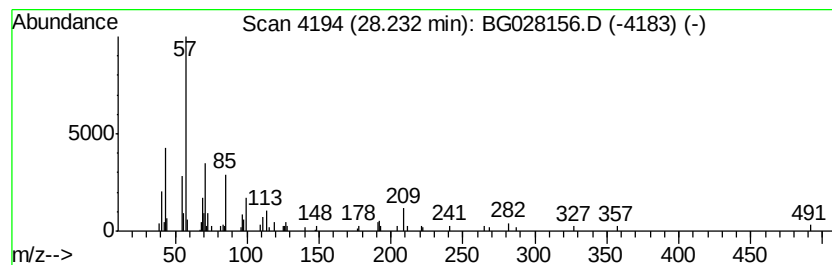
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 2 (DEL) Alkane: Straight-Chai... Concentration Rank 1

| R.T.  | EstConc    | Area   | Relative to ISTD | R.T.  |
|-------|------------|--------|------------------|-------|
| 28.23 | 2.84 ng/ul | 129853 | Perylene-d12     | 25.55 |

| Hit# | of | Tentative ID                        | MW  | MolForm   | CAS#         | Qual |
|------|----|-------------------------------------|-----|-----------|--------------|------|
| 1    | 5  | Eicosane                            | 282 | C20H42    | 000112-95-8  | 90   |
| 2    |    | Sulfurous acid, butyl heptadecyl... | 376 | C21H44O3S | 1000309-18-4 | 80   |
| 3    |    | Eicosane                            | 282 | C20H42    | 000112-95-8  | 76   |
| 4    |    | Eicosane                            | 282 | C20H42    | 000112-95-8  | 60   |
| 5    |    | Octadecane                          | 254 | C18H38    | 000593-45-3  | 58   |



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Data File : BG028156.D  
Acq On : 7 Aug 2017 15:03  
Operator : SJ/JU  
Sample : I4578-04  
Misc :  
ALS Vial : 8 Sample Multiplier: 1

Instrument :  
BNA\_G  
ClientSampleId :  
C02T7

Quant Method : Z:\HPCHEM1\BNA\_G\METHODS\SOM-EPA-BG080217.M  
Quant Title : SVOA CALIBRATION

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

|                      |       |         |       |          | --Internal Standard-- |       |        |      |
|----------------------|-------|---------|-------|----------|-----------------------|-------|--------|------|
| TIC Top Hit name     | RT    | EstConc | Units | Response | #                     | RT    | Resp   | Conc |
| (DEL) Alkane: Str... | 26.74 | 2.5     | ng/ul | 116482   | 6                     | 25.55 | 915642 | 20.0 |
| (DEL) Alkane: Str... | 28.23 | 2.8     | ng/ul | 129853   | 6                     | 25.55 | 915642 | 20.0 |