

Data Path : Z:\HPCHEM1\BNA M\DATA\BM071516\  
 Data File : BM006462.D  
 Acq On : 16 Jul 2016 03:14  
 Operator : UM/SJ  
 Sample : H3992-16  
 Misc :  
 ALS Vial : 20 Sample Multiplier: 1

Instrument :  
 BNA\_M  
 ClientSampleId :  
 BDJ93

## Integration Parameters: LSCINT.P

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

Filtering: 5  
 Min Area: 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\_M\METHODS\SOM02.2-EPA-BM071416.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         | 6.798       | 705           | 716         | 730          | rBV      | 357352         | 636227        | 16.58%          | 1.446%        |
| 2         | 6.957       | 736           | 743         | 750          | rBV      | 281710         | 443670        | 11.56%          | 1.008%        |
| 3         | 7.151       | 770           | 776         | 790          | rVB      | 384440         | 623528        | 16.25%          | 1.417%        |
| 4         | 7.616       | 847           | 855         | 869          | rVB      | 726944         | 1196199       | 31.17%          | 2.719%        |
| 5         | 8.322       | 970           | 975         | 991          | rVB      | 423083         | 740771        | 19.31%          | 1.684%        |
| 6         | 8.769       | 1045          | 1051        | 1060         | rBV      | 353397         | 604461        | 15.75%          | 1.374%        |
| 7         | 9.486       | 1166          | 1173        | 1184         | rBV      | 293102         | 499587        | 13.02%          | 1.135%        |
| 8         | 10.022      | 1258          | 1264        | 1274         | rVB      | 410438         | 716232        | 18.67%          | 1.628%        |
| 9         | 10.392      | 1315          | 1327        | 1334         | rBV      | 918553         | 1724762       | 44.95%          | 3.920%        |
| 10        | 10.445      | 1334          | 1336        | 1344         | rVB2     | 58191          | 75565         | 1.97%           | 0.172%        |
| 11        | 10.539      | 1344          | 1352        | 1362         | rBV      | 383631         | 758614        | 19.77%          | 1.724%        |
| 12        | 11.422      | 1497          | 1502        | 1511         | rBV4     | 24199          | 53245         | 1.39%           | 0.121%        |
| 13        | 12.063      | 1605          | 1611        | 1620         | rVB2     | 39981          | 79932         | 2.08%           | 0.182%        |
| 14        | 12.286      | 1643          | 1649        | 1658         | rBV2     | 53027          | 94283         | 2.46%           | 0.214%        |
| 15        | 12.798      | 1731          | 1736        | 1742         | rBV      | 38213          | 47790         | 1.25%           | 0.109%        |
| 16        | 13.298      | 1817          | 1821        | 1832         | rVB      | 29413          | 80328         | 2.09%           | 0.183%        |
| 17        | 13.439      | 1837          | 1845        | 1851         | rBV3     | 29922          | 79429         | 2.07%           | 0.181%        |
| 18        | 13.586      | 1864          | 1870        | 1874         | rBV      | 67541          | 117668        | 3.07%           | 0.267%        |
| 19        | 13.639      | 1874          | 1879        | 1881         | rVV3     | 29433          | 50492         | 1.32%           | 0.115%        |
| 20        | 13.680      | 1881          | 1886        | 1890         | rVV      | 800651         | 1164542       | 30.35%          | 2.647%        |
| 21        | 13.727      | 1890          | 1894        | 1903         | rVV      | 853142         | 1328564       | 34.62%          | 3.019%        |
| 22        | 13.821      | 1907          | 1910        | 1914         | rVB3     | 31228          | 42535         | 1.11%           | 0.097%        |
| 23        | 13.957      | 1927          | 1933        | 1945         | rBV      | 884129         | 1520328       | 39.62%          | 3.455%        |
| 24        | 14.092      | 1952          | 1956        | 1964         | rVB6     | 19373          | 44768         | 1.17%           | 0.102%        |
| 25        | 14.168      | 1964          | 1969        | 1975         | rBV3     | 26363          | 56026         | 1.46%           | 0.127%        |
| 26        | 14.268      | 1976          | 1986        | 1993         | rVV2     | 1296184        | 2213327       | 57.68%          | 5.030%        |
| 27        | 14.327      | 1993          | 1996        | 2007         | rVB      | 67424          | 124426        | 3.24%           | 0.283%        |
| 28        | 14.486      | 2017          | 2023        | 2033         | rBV2     | 232419         | 438599        | 11.43%          | 0.997%        |
| 29        | 14.674      | 2051          | 2055        | 2061         | rVB2     | 47533          | 78819         | 2.05%           | 0.179%        |
| 30        | 14.745      | 2062          | 2067        | 2072         | rVB2     | 37413          | 58771         | 1.53%           | 0.134%        |
| 31        | 14.798      | 2072          | 2076        | 2083         | rVB4     | 39249          | 66653         | 1.74%           | 0.151%        |
| 32        | 14.892      | 2084          | 2092        | 2096         | rBV4     | 33548          | 84084         | 2.19%           | 0.191%        |
| 33        | 15.057      | 2113          | 2120        | 2124         | rBV7     | 34576          | 87129         | 2.27%           | 0.198%        |
| 34        | 15.139      | 2129          | 2134        | 2140         | rVB3     | 38609          | 67398         | 1.76%           | 0.153%        |

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If leading or trailing edge < 100 prefer < Baseline drop else tangent >  
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 Title : SVOA CALIBRATION

|    |        |      |      |      |      |         |         |        |        |
|----|--------|------|------|------|------|---------|---------|--------|--------|
| 35 | 15.263 | 2149 | 2155 | 2161 | rBV  | 1098481 | 1719057 | 44.80% | 3.907% |
| 36 | 15.321 | 2161 | 2165 | 2172 | rVB  | 60277   | 93621   | 2.44%  | 0.213% |
| 37 | 15.398 | 2173 | 2178 | 2183 | rBV  | 177705  | 263108  | 6.86%  | 0.598% |
| 38 | 15.533 | 2196 | 2201 | 2207 | rVB3 | 95231   | 163490  | 4.26%  | 0.372% |
| 39 | 15.739 | 2232 | 2236 | 2245 | rVB6 | 39066   | 108863  | 2.84%  | 0.247% |
| 40 | 16.015 | 2275 | 2283 | 2289 | rBV2 | 122742  | 277446  | 7.23%  | 0.631% |
| 41 | 16.327 | 2329 | 2336 | 2340 | rBV4 | 64814   | 146970  | 3.83%  | 0.334% |
| 42 | 16.368 | 2341 | 2343 | 2351 | rVB3 | 47330   | 95884   | 2.50%  | 0.218% |
| 43 | 16.598 | 2379 | 2382 | 2385 | rVB3 | 40671   | 48686   | 1.27%  | 0.111% |
| 44 | 16.680 | 2393 | 2396 | 2401 | rVB6 | 28474   | 48900   | 1.27%  | 0.111% |
| 45 | 16.786 | 2411 | 2414 | 2417 | rBV  | 29443   | 39121   | 1.02%  | 0.089% |
| 46 | 16.833 | 2418 | 2422 | 2427 | rVB  | 108699  | 158176  | 4.12%  | 0.359% |
| 47 | 17.015 | 2447 | 2453 | 2458 | rBV  | 1654628 | 2663784 | 69.42% | 6.054% |
| 48 | 17.062 | 2458 | 2461 | 2465 | rVB  | 390671  | 487459  | 12.70% | 1.108% |
| 49 | 17.115 | 2465 | 2470 | 2474 | rBV2 | 1250090 | 1849565 | 48.20% | 4.204% |
| 50 | 17.215 | 2482 | 2487 | 2491 | rBV4 | 36442   | 58566   | 1.53%  | 0.133% |
| 51 | 17.439 | 2520 | 2525 | 2532 | rBV6 | 47181   | 94837   | 2.47%  | 0.216% |
| 52 | 17.598 | 2549 | 2552 | 2557 | rVB2 | 42128   | 55824   | 1.45%  | 0.127% |
| 53 | 17.745 | 2573 | 2577 | 2583 | rVB2 | 28026   | 57363   | 1.49%  | 0.130% |
| 54 | 17.892 | 2598 | 2602 | 2606 | rBV  | 129768  | 173057  | 4.51%  | 0.393% |
| 55 | 17.939 | 2606 | 2610 | 2616 | rVB  | 165020  | 247863  | 6.46%  | 0.563% |
| 56 | 18.021 | 2620 | 2624 | 2629 | rBV  | 108167  | 157274  | 4.10%  | 0.357% |
| 57 | 18.086 | 2629 | 2635 | 2639 | rVV2 | 260132  | 538489  | 14.03% | 1.224% |
| 58 | 18.121 | 2639 | 2641 | 2648 | rVB  | 135633  | 185460  | 4.83%  | 0.421% |
| 59 | 18.221 | 2654 | 2658 | 2661 | rBV6 | 22028   | 49046   | 1.28%  | 0.111% |
| 60 | 18.398 | 2684 | 2688 | 2694 | rVB  | 91747   | 120781  | 3.15%  | 0.275% |
| 61 | 18.815 | 2755 | 2759 | 2763 | rBV  | 163904  | 257904  | 6.72%  | 0.586% |
| 62 | 18.880 | 2767 | 2770 | 2774 | rVB2 | 75854   | 115176  | 3.00%  | 0.262% |
| 63 | 18.956 | 2780 | 2783 | 2784 | rBV3 | 38870   | 43651   | 1.14%  | 0.099% |
| 64 | 19.080 | 2799 | 2804 | 2810 | rBV  | 527708  | 701198  | 18.27% | 1.594% |
| 65 | 19.139 | 2811 | 2814 | 2819 | rVB3 | 145496  | 191829  | 5.00%  | 0.436% |
| 66 | 19.186 | 2819 | 2822 | 2826 | rVB5 | 35889   | 40839   | 1.06%  | 0.093% |
| 67 | 19.233 | 2826 | 2830 | 2835 | rBV  | 161529  | 211380  | 5.51%  | 0.480% |
| 68 | 19.356 | 2848 | 2851 | 2855 | rVB2 | 87433   | 118388  | 3.09%  | 0.269% |
| 69 | 19.421 | 2856 | 2862 | 2865 | rBV  | 1525908 | 2420132 | 63.07% | 5.500% |
| 70 | 19.527 | 2876 | 2880 | 2886 | rVB2 | 72236   | 111110  | 2.90%  | 0.253% |
| 71 | 19.774 | 2918 | 2922 | 2928 | rBV2 | 104241  | 225425  | 5.87%  | 0.512% |

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|    |        |      |      |      |      |         |         |         |        |
|----|--------|------|------|------|------|---------|---------|---------|--------|
| 72 | 19.915 | 2941 | 2946 | 2948 | rBV5 | 99943   | 170271  | 4.44%   | 0.387% |
| 73 | 19.945 | 2948 | 2951 | 2955 | rVB  | 243400  | 317051  | 8.26%   | 0.721% |
| 74 | 20.045 | 2960 | 2968 | 2973 | rBV2 | 207126  | 353461  | 9.21%   | 0.803% |
| 75 | 20.103 | 2975 | 2978 | 2982 | rVB  | 140764  | 178029  | 4.64%   | 0.405% |
| 76 | 20.203 | 2991 | 2995 | 2999 | rBV  | 109524  | 164605  | 4.29%   | 0.374% |
| 77 | 20.245 | 2999 | 3002 | 3006 | rVV  | 115880  | 155645  | 4.06%   | 0.354% |
| 78 | 20.292 | 3007 | 3010 | 3015 | rVB  | 129931  | 168987  | 4.40%   | 0.384% |
| 79 | 20.539 | 3049 | 3052 | 3055 | rBV4 | 48699   | 80369   | 2.09%   | 0.183% |
| 80 | 20.862 | 3104 | 3107 | 3110 | rBV  | 69141   | 77832   | 2.03%   | 0.177% |
| 81 | 20.897 | 3111 | 3113 | 3117 | rVB  | 84696   | 90113   | 2.35%   | 0.205% |
| 82 | 20.933 | 3117 | 3119 | 3124 | rBV2 | 73361   | 107666  | 2.81%   | 0.245% |
| 83 | 21.133 | 3150 | 3153 | 3160 | rVB  | 204797  | 254096  | 6.62%   | 0.577% |
| 84 | 21.215 | 3160 | 3167 | 3171 | rBV3 | 2448436 | 3837070 | 100.00% | 8.721% |
| 85 | 21.250 | 3171 | 3173 | 3183 | rVB  | 446097  | 579891  | 15.11%  | 1.318% |
| 86 | 21.368 | 3190 | 3193 | 3199 | rBV5 | 74188   | 137616  | 3.59%   | 0.313% |
| 87 | 21.762 | 3257 | 3260 | 3264 | rVB  | 138847  | 171415  | 4.47%   | 0.390% |
| 88 | 21.950 | 3290 | 3292 | 3295 | rBV  | 69411   | 72622   | 1.89%   | 0.165% |
| 89 | 22.756 | 3423 | 3429 | 3434 | rBV2 | 244182  | 612032  | 15.95%  | 1.391% |
| 90 | 22.927 | 3454 | 3458 | 3464 | rVB  | 113386  | 198937  | 5.18%   | 0.452% |
| 91 | 23.221 | 3504 | 3508 | 3511 | rBV  | 169284  | 285519  | 7.44%   | 0.649% |
| 92 | 23.274 | 3511 | 3517 | 3522 | rBV2 | 1056880 | 1970788 | 51.36%  | 4.479% |
| 93 | 23.415 | 3534 | 3541 | 3547 | rBV  | 1606063 | 3031862 | 79.02%  | 6.891% |
| 94 | 24.638 | 3744 | 3749 | 3761 | rVB2 | 109074  | 261698  | 6.82%   | 0.595% |
| 95 | 25.603 | 3907 | 3913 | 3923 | rVB  | 142003  | 384285  | 10.02%  | 0.873% |

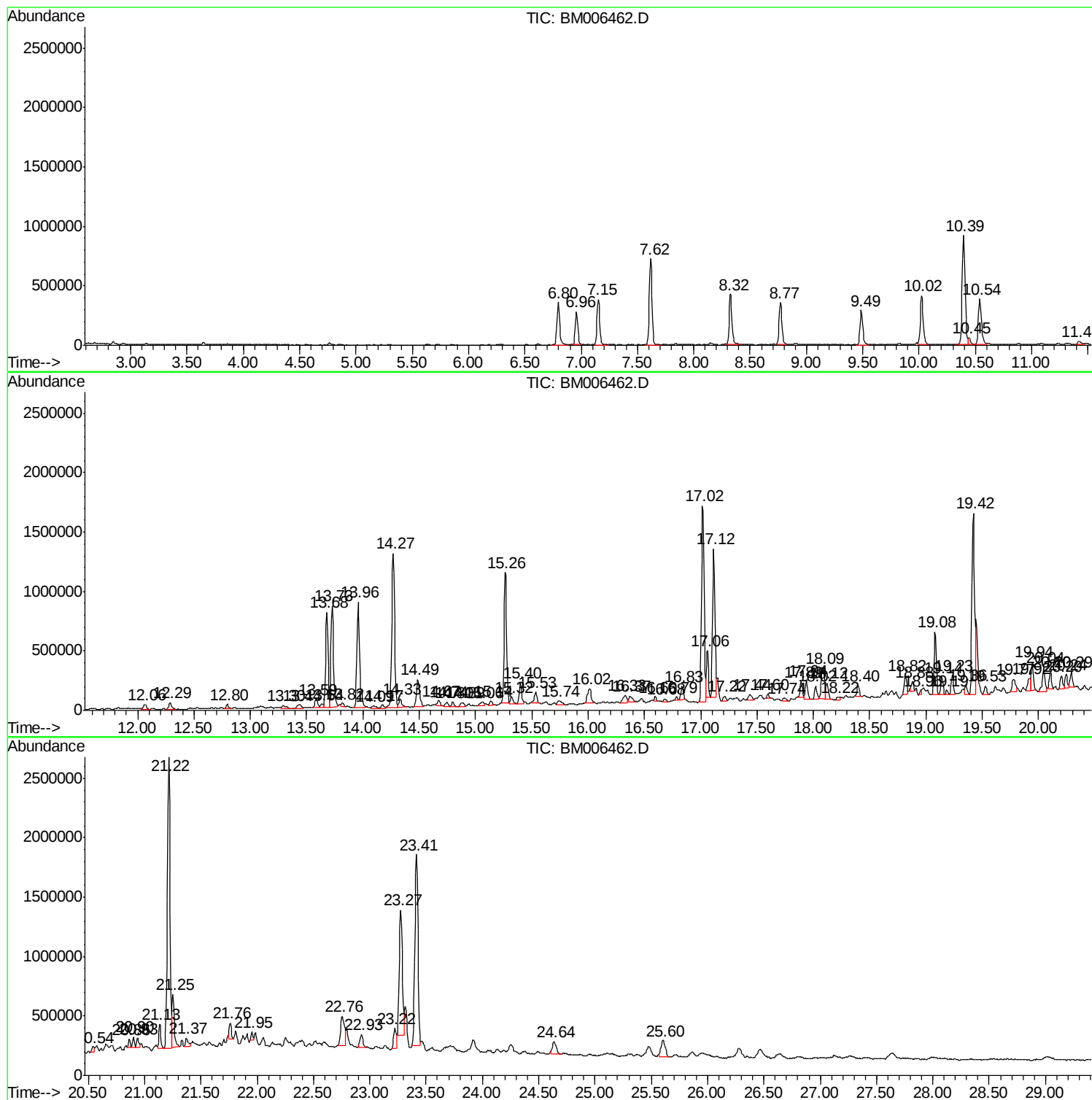
Sum of corrected areas: 44000334

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Instrument :  
BNA\_M  
ClientSampled :  
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Quant Method : Z:\HPCHEM1\BNA M\METHODS\SOM02.2-EPA-BM071416.M  
Quant Title : SVOA CALIBRATION

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



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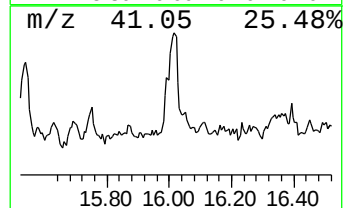
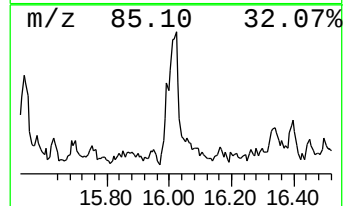
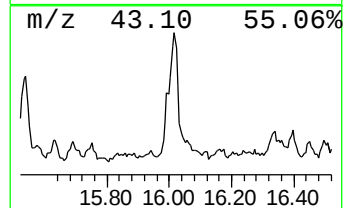
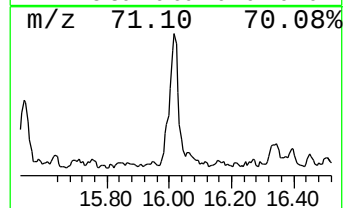
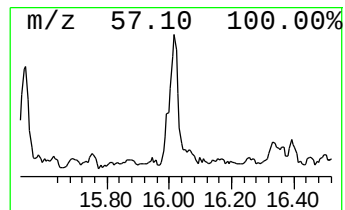
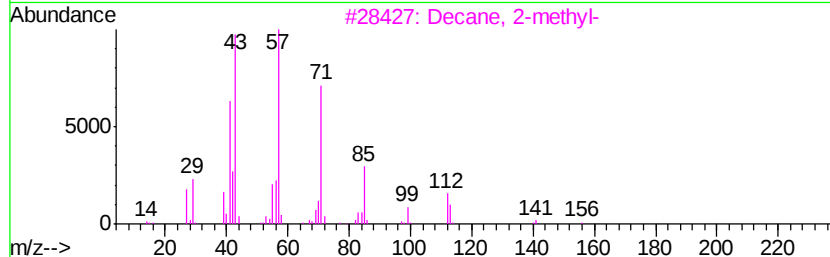
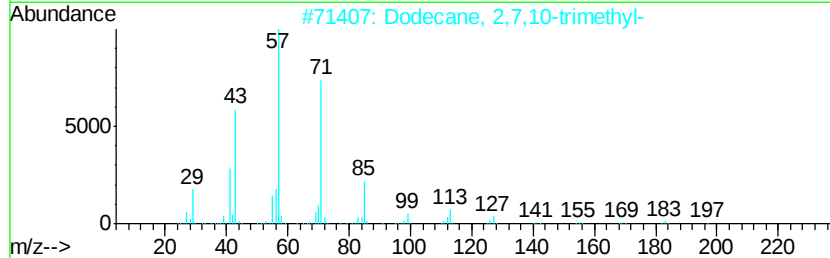
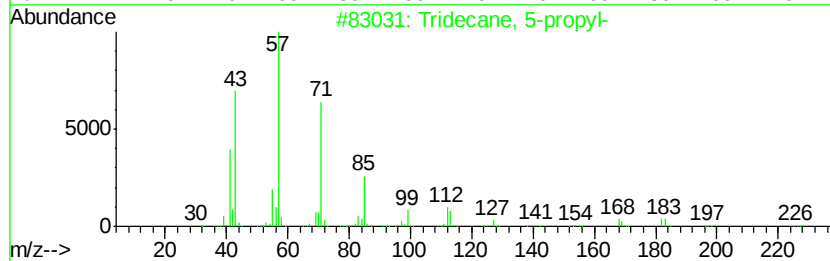
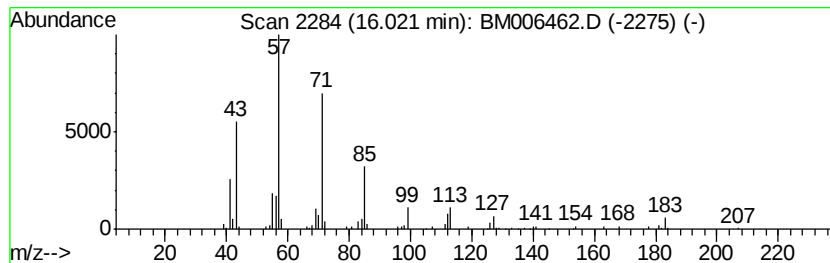
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Quant Method : Z:\HPCHEM1\BNA M\METHODS\SOM02.2-EPA-BM071416.M  
Quant Title : SVOA CALIBRATION

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

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

| R.T.      | EstConc                     | Area   | Relative to ISTD | R.T.        |      |
|-----------|-----------------------------|--------|------------------|-------------|------|
| 16.02     | 2.08 ng/ul                  | 277446 | Phenanthrene-d10 | 17.02       |      |
| Hit# of 5 | Tentative ID                | MW     | MolForm          | CAS#        | Qual |
| 1         | Tridecane, 5-propyl-        | 226    | C16H34           | 055045-11-9 | 86   |
| 2         | Dodecane, 2,7,10-trimethyl- | 212    | C15H32           | 074645-98-0 | 86   |
| 3         | Decane, 2-methyl-           | 156    | C11H24           | 006975-98-0 | 83   |
| 4         | Tridecane                   | 184    | C13H28           | 000629-50-5 | 83   |
| 5         | Decane, 2-methyl-           | 156    | C11H24           | 006975-98-0 | 83   |



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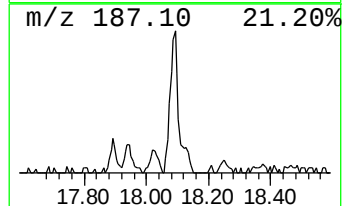
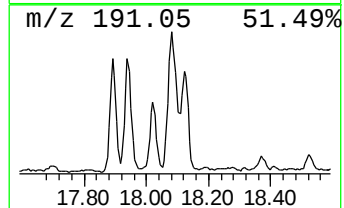
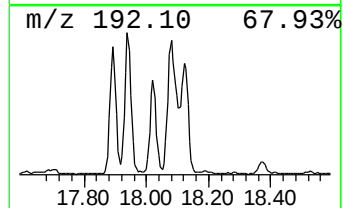
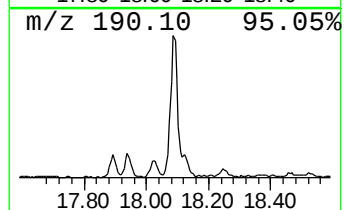
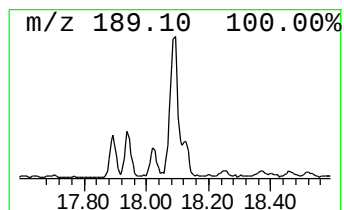
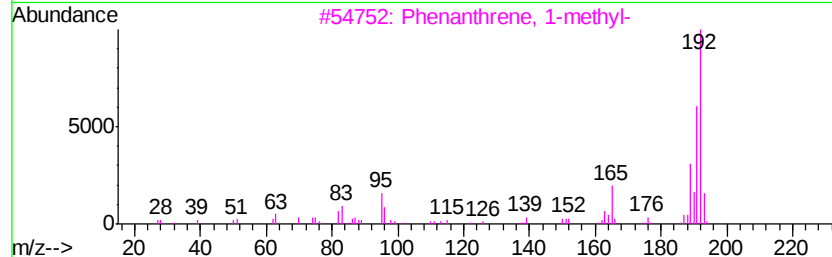
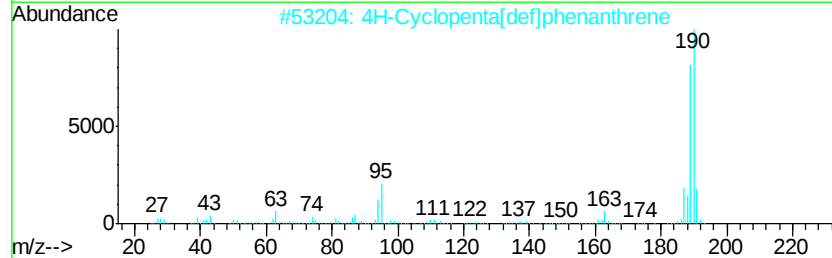
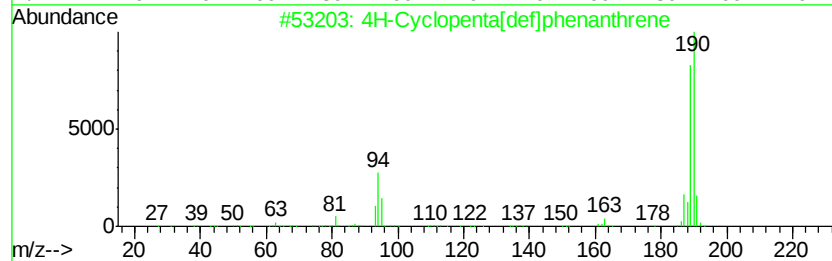
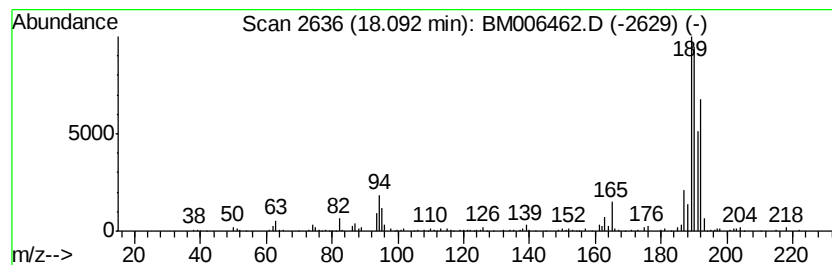
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TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 2 4H-Cyclopenta[def]phenanthrene Concentration Rank 1

| R.T.      | EstConc                             | Area   | Relative to ISTD | R.T.         |      |
|-----------|-------------------------------------|--------|------------------|--------------|------|
| 18.09     | 4.04 ng/ul                          | 538489 | Phenanthrene-d10 | 17.02        |      |
| Hit# of 5 | Tentative ID                        | MW     | MolForm          | CAS#         | Qual |
| 1         | 4H-Cyclopenta[def]phenanthrene      | 190    | C15H10           | 000203-64-5  | 64   |
| 2         | 4H-Cyclopenta[def]phenanthrene      | 190    | C15H10           | 000203-64-5  | 42   |
| 3         | Phenanthrene, 1-methyl-             | 192    | C15H12           | 000832-69-9  | 42   |
| 4         | 1-Chloro-4-(2-chloro-2-fluoroeth... | 190    | C8H5Cl2F         | 1000305-36-3 | 38   |
| 5         | Anthracene, 2-methyl-               | 192    | C15H12           | 000613-12-7  | 38   |



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Quant Title : SVOA CALIBRATION

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

| TIC Top Hit name     | RT    | EstConc | Units | Response | --Internal Standard-- |       |         |      |
|----------------------|-------|---------|-------|----------|-----------------------|-------|---------|------|
|                      |       |         |       |          | #                     | RT    | Resp    | Conc |
| (DEL) Alkane: Str... | 16.02 | 2.1     | ng/ul | 277446   | 4                     | 17.02 | 2663780 | 20.0 |
| 4H-Cyclopenta[def... | 18.09 | 4.0     | ng/ul | 538489   | 4                     | 17.02 | 2663780 | 20.0 |