

Data Path : Z:\HPCHEM1\BNA G\DATA\BG111715\  
 Data File : BG019673.D  
 Acq On : 17 Nov 2015 23:34  
 Operator : UM/NP  
 Sample : G4427-15  
 Misc :  
 ALS Vial : 15 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleId :  
 BC7A1

## 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-BG111615.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         | 3.087       | 37            | 42          | 50           | rBV2     | 33040          | 58960         | 4.98%           | 0.456%        |
| 2         | 3.163       | 50            | 55          | 68           | rVB      | 288059         | 404939        | 34.20%          | 3.132%        |
| 3         | 3.445       | 99            | 103         | 109          | rVB3     | 5199           | 7942          | 0.67%           | 0.061%        |
| 4         | 7.294       | 751           | 758         | 769          | rVB      | 118665         | 211565        | 17.87%          | 1.636%        |
| 5         | 7.458       | 780           | 786         | 796          | rBV      | 90219          | 148158        | 12.51%          | 1.146%        |
| 6         | 7.675       | 816           | 823         | 830          | rVB      | 107124         | 179058        | 15.12%          | 1.385%        |
| 7         | 8.146       | 897           | 903         | 913          | rVB      | 81351          | 136649        | 11.54%          | 1.057%        |
| 8         | 8.851       | 1016          | 1023        | 1032         | rBV      | 153722         | 260488        | 22.00%          | 2.015%        |
| 9         | 9.321       | 1094          | 1103        | 1111         | rBV      | 121313         | 207910        | 17.56%          | 1.608%        |
| 10        | 9.432       | 1114          | 1122        | 1129         | rBV3     | 11034          | 24063         | 2.03%           | 0.186%        |
| 11        | 10.049      | 1220          | 1227        | 1234         | rVB      | 105451         | 183172        | 15.47%          | 1.417%        |
| 12        | 10.590      | 1312          | 1319        | 1330         | rVB      | 158016         | 270122        | 22.81%          | 2.089%        |
| 13        | 10.725      | 1337          | 1342        | 1347         | rVB      | 3475           | 4734          | 0.40%           | 0.037%        |
| 14        | 10.977      | 1377          | 1385        | 1391         | rBV      | 120812         | 215760        | 18.22%          | 1.669%        |
| 15        | 11.107      | 1400          | 1407        | 1417         | rBV2     | 133153         | 239982        | 20.27%          | 1.856%        |
| 16        | 11.747      | 1509          | 1516        | 1521         | rBV3     | 3825           | 6351          | 0.54%           | 0.049%        |
| 17        | 11.976      | 1550          | 1555        | 1561         | rBV3     | 3232           | 5902          | 0.50%           | 0.046%        |
| 18        | 13.140      | 1745          | 1753        | 1761         | rVB5     | 6700           | 12596         | 1.06%           | 0.097%        |
| 19        | 13.381      | 1789          | 1794        | 1800         | rBV      | 10649          | 16179         | 1.37%           | 0.125%        |
| 20        | 13.592      | 1825          | 1830        | 1835         | rBV2     | 4736           | 7345          | 0.62%           | 0.057%        |
| 21        | 13.692      | 1842          | 1847        | 1852         | rVB4     | 4794           | 7403          | 0.63%           | 0.057%        |
| 22        | 14.180      | 1922          | 1930        | 1933         | rBV      | 329062         | 497963        | 42.06%          | 3.852%        |
| 23        | 14.227      | 1933          | 1938        | 1944         | rVV      | 378202         | 538560        | 45.49%          | 4.166%        |
| 24        | 14.285      | 1944          | 1948        | 1952         | rVB4     | 2511           | 3435          | 0.29%           | 0.027%        |
| 25        | 14.397      | 1965          | 1967        | 1972         | rVV4     | 3590           | 5274          | 0.45%           | 0.041%        |
| 26        | 14.479      | 1972          | 1981        | 1990         | rVB      | 300851         | 468311        | 39.55%          | 3.622%        |
| 27        | 14.650      | 2005          | 2010        | 2014         | rBV      | 17079          | 23391         | 1.98%           | 0.181%        |
| 28        | 14.785      | 2026          | 2033        | 2041         | rVB2     | 235908         | 389932        | 32.93%          | 3.016%        |
| 29        | 14.967      | 2058          | 2064        | 2077         | rBV      | 194227         | 304764        | 25.74%          | 2.357%        |
| 30        | 15.096      | 2084          | 2086        | 2092         | rVB4     | 3312           | 4801          | 0.41%           | 0.037%        |
| 31        | 15.261      | 2109          | 2114        | 2121         | rBV5     | 4837           | 10354         | 0.87%           | 0.080%        |
| 32        | 15.331      | 2123          | 2126        | 2130         | rVB3     | 3904           | 5462          | 0.46%           | 0.042%        |
| 33        | 15.554      | 2159          | 2164        | 2167         | rBV2     | 9983           | 14236         | 1.20%           | 0.110%        |
| 34        | 15.601      | 2167          | 2172        | 2177         | rVB      | 28312          | 36985         | 3.12%           | 0.286%        |

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 Title : SVOA CALIBRATION

|    |        |      |      |      |      |        |        |        |        |
|----|--------|------|------|------|------|--------|--------|--------|--------|
| 35 | 15.660 | 2177 | 2182 | 2185 | rBV4 | 3220   | 5860   | 0.49%  | 0.045% |
| 36 | 15.772 | 2195 | 2201 | 2207 | rBV  | 420365 | 648878 | 54.80% | 5.019% |
| 37 | 15.878 | 2214 | 2219 | 2226 | rVB  | 191941 | 280275 | 23.67% | 2.168% |
| 38 | 16.001 | 2233 | 2240 | 2245 | rBV5 | 11662  | 21986  | 1.86%  | 0.170% |
| 39 | 16.095 | 2253 | 2256 | 2262 | rVB5 | 3851   | 6131   | 0.52%  | 0.047% |
| 40 | 16.154 | 2263 | 2266 | 2269 | rBV4 | 2706   | 3227   | 0.27%  | 0.025% |
| 41 | 16.224 | 2274 | 2278 | 2281 | rVB3 | 3651   | 4144   | 0.35%  | 0.032% |
| 42 | 16.283 | 2286 | 2288 | 2295 | rVB6 | 2640   | 3787   | 0.32%  | 0.029% |
| 43 | 16.459 | 2313 | 2318 | 2321 | rBV  | 25676  | 37252  | 3.15%  | 0.288% |
| 44 | 16.583 | 2336 | 2339 | 2344 | rBV  | 7970   | 9482   | 0.80%  | 0.073% |
| 45 | 16.641 | 2344 | 2349 | 2355 | rBV6 | 10019  | 17977  | 1.52%  | 0.139% |
| 46 | 16.706 | 2355 | 2360 | 2364 | rVB3 | 7396   | 12679  | 1.07%  | 0.098% |
| 47 | 16.747 | 2364 | 2367 | 2372 | rVB5 | 6113   | 10000  | 0.84%  | 0.077% |
| 48 | 16.794 | 2372 | 2375 | 2377 | rBV2 | 6276   | 7486   | 0.63%  | 0.058% |
| 49 | 16.859 | 2383 | 2386 | 2389 | rBV3 | 3256   | 4345   | 0.37%  | 0.034% |
| 50 | 16.912 | 2389 | 2395 | 2400 | rVB9 | 9302   | 20744  | 1.75%  | 0.160% |
| 51 | 16.970 | 2400 | 2405 | 2409 | rBV2 | 13726  | 20709  | 1.75%  | 0.160% |
| 52 | 17.041 | 2416 | 2417 | 2421 | rVB2 | 6515   | 6235   | 0.53%  | 0.048% |
| 53 | 17.247 | 2447 | 2452 | 2458 | rBV3 | 21123  | 32853  | 2.77%  | 0.254% |
| 54 | 17.305 | 2458 | 2462 | 2465 | rVB4 | 6429   | 10025  | 0.85%  | 0.078% |
| 55 | 17.523 | 2492 | 2499 | 2504 | rVV2 | 396329 | 588867 | 49.73% | 4.555% |
| 56 | 17.564 | 2504 | 2506 | 2510 | rVV2 | 25578  | 33707  | 2.85%  | 0.261% |
| 57 | 17.623 | 2510 | 2516 | 2527 | rVB  | 534899 | 834613 | 70.49% | 6.456% |
| 58 | 17.787 | 2539 | 2544 | 2547 | rBV6 | 4523   | 7113   | 0.60%  | 0.055% |
| 59 | 17.811 | 2547 | 2548 | 2554 | rBV6 | 2712   | 4225   | 0.36%  | 0.033% |
| 60 | 17.881 | 2554 | 2560 | 2561 | rBV5 | 3086   | 5902   | 0.50%  | 0.046% |
| 61 | 17.981 | 2574 | 2577 | 2583 | rBV5 | 9942   | 13394  | 1.13%  | 0.104% |
| 62 | 18.034 | 2584 | 2586 | 2589 | rVB3 | 5317   | 4586   | 0.39%  | 0.035% |
| 63 | 18.157 | 2605 | 2607 | 2614 | rVB6 | 4657   | 6679   | 0.56%  | 0.052% |
| 64 | 18.287 | 2625 | 2629 | 2634 | rVB4 | 3897   | 6750   | 0.57%  | 0.052% |
| 65 | 18.386 | 2641 | 2646 | 2650 | rBV4 | 21846  | 33358  | 2.82%  | 0.258% |
| 66 | 18.439 | 2651 | 2655 | 2662 | rVB3 | 13742  | 22896  | 1.93%  | 0.177% |
| 67 | 18.592 | 2676 | 2681 | 2686 | rBV4 | 13733  | 25321  | 2.14%  | 0.196% |
| 68 | 18.674 | 2691 | 2695 | 2698 | rBV6 | 8532   | 11495  | 0.97%  | 0.089% |
| 69 | 18.886 | 2726 | 2731 | 2736 | rBV5 | 13530  | 24529  | 2.07%  | 0.190% |
| 70 | 18.980 | 2745 | 2747 | 2751 | rBV3 | 6238   | 7547   | 0.64%  | 0.058% |
| 71 | 19.115 | 2766 | 2770 | 2773 | rBV5 | 11601  | 16895  | 1.43%  | 0.131% |

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|     |        |      |      |      |       |        |         |         |        |
|-----|--------|------|------|------|-------|--------|---------|---------|--------|
| 72  | 19.233 | 2787 | 2790 | 2795 | rVB   | 21669  | 25132   | 2.12%   | 0.194% |
| 73  | 19.297 | 2798 | 2801 | 2806 | rVB5  | 20681  | 27368   | 2.31%   | 0.212% |
| 74  | 19.562 | 2841 | 2846 | 2852 | rVB   | 151442 | 217662  | 18.38%  | 1.684% |
| 75  | 19.773 | 2879 | 2882 | 2890 | rBV3  | 23313  | 39771   | 3.36%   | 0.308% |
| 76  | 19.896 | 2895 | 2903 | 2916 | rVB2  | 675022 | 1184026 | 100.00% | 9.158% |
| 77  | 19.990 | 2916 | 2919 | 2924 | rBV6  | 9923   | 13480   | 1.14%   | 0.104% |
| 78  | 20.237 | 2956 | 2961 | 2962 | rBV4  | 13429  | 22465   | 1.90%   | 0.174% |
| 79  | 20.302 | 2969 | 2972 | 2977 | rVB   | 21200  | 23027   | 1.94%   | 0.178% |
| 80  | 20.361 | 2978 | 2982 | 2984 | rVV4  | 14824  | 24955   | 2.11%   | 0.193% |
| 81  | 20.402 | 2985 | 2989 | 2997 | rVB3  | 48264  | 88659   | 7.49%   | 0.686% |
| 82  | 20.507 | 3003 | 3007 | 3011 | rBV3  | 36127  | 48840   | 4.12%   | 0.378% |
| 83  | 20.778 | 3050 | 3053 | 3059 | rVB   | 43336  | 60378   | 5.10%   | 0.467% |
| 84  | 20.995 | 3086 | 3090 | 3094 | rBV3  | 29678  | 45814   | 3.87%   | 0.354% |
| 85  | 21.042 | 3094 | 3098 | 3101 | rVB   | 46192  | 54465   | 4.60%   | 0.421% |
| 86  | 21.401 | 3155 | 3159 | 3164 | rVB4  | 58187  | 80826   | 6.83%   | 0.625% |
| 87  | 21.618 | 3194 | 3196 | 3198 | rBV3  | 10191  | 11732   | 0.99%   | 0.091% |
| 88  | 21.788 | 3217 | 3225 | 3230 | rBV2  | 522810 | 983689  | 83.08%  | 7.609% |
| 89  | 21.835 | 3230 | 3233 | 3240 | rVB   | 71672  | 114637  | 9.68%   | 0.887% |
| 90  | 22.817 | 3396 | 3400 | 3405 | rVB7  | 11892  | 20784   | 1.76%   | 0.161% |
| 91  | 23.486 | 3511 | 3514 | 3521 | rVB8  | 10652  | 22267   | 1.88%   | 0.172% |
| 92  | 24.045 | 3601 | 3609 | 3616 | rBV   | 49964  | 167254  | 14.13%  | 1.294% |
| 93  | 24.180 | 3629 | 3632 | 3638 | rBV8  | 6969   | 17182   | 1.45%   | 0.133% |
| 94  | 24.315 | 3648 | 3655 | 3661 | rVB3  | 18148  | 45318   | 3.83%   | 0.351% |
| 95  | 24.797 | 3731 | 3737 | 3741 | rBV   | 22512  | 50139   | 4.23%   | 0.388% |
| 96  | 24.879 | 3741 | 3751 | 3759 | rBV   | 347515 | 922170  | 77.88%  | 7.133% |
| 97  | 25.108 | 3779 | 3790 | 3800 | rBV2  | 268453 | 778292  | 65.73%  | 6.020% |
| 98  | 27.652 | 4214 | 4223 | 4234 | rVB10 | 20510  | 78683   | 6.65%   | 0.609% |
| 99  | 28.892 | 4428 | 4434 | 4440 | rBV4  | 12213  | 31569   | 2.67%   | 0.244% |
| 100 | 30.866 | 4768 | 4770 | 4773 | rBV3  | 3216   | 3423    | 0.29%   | 0.026% |

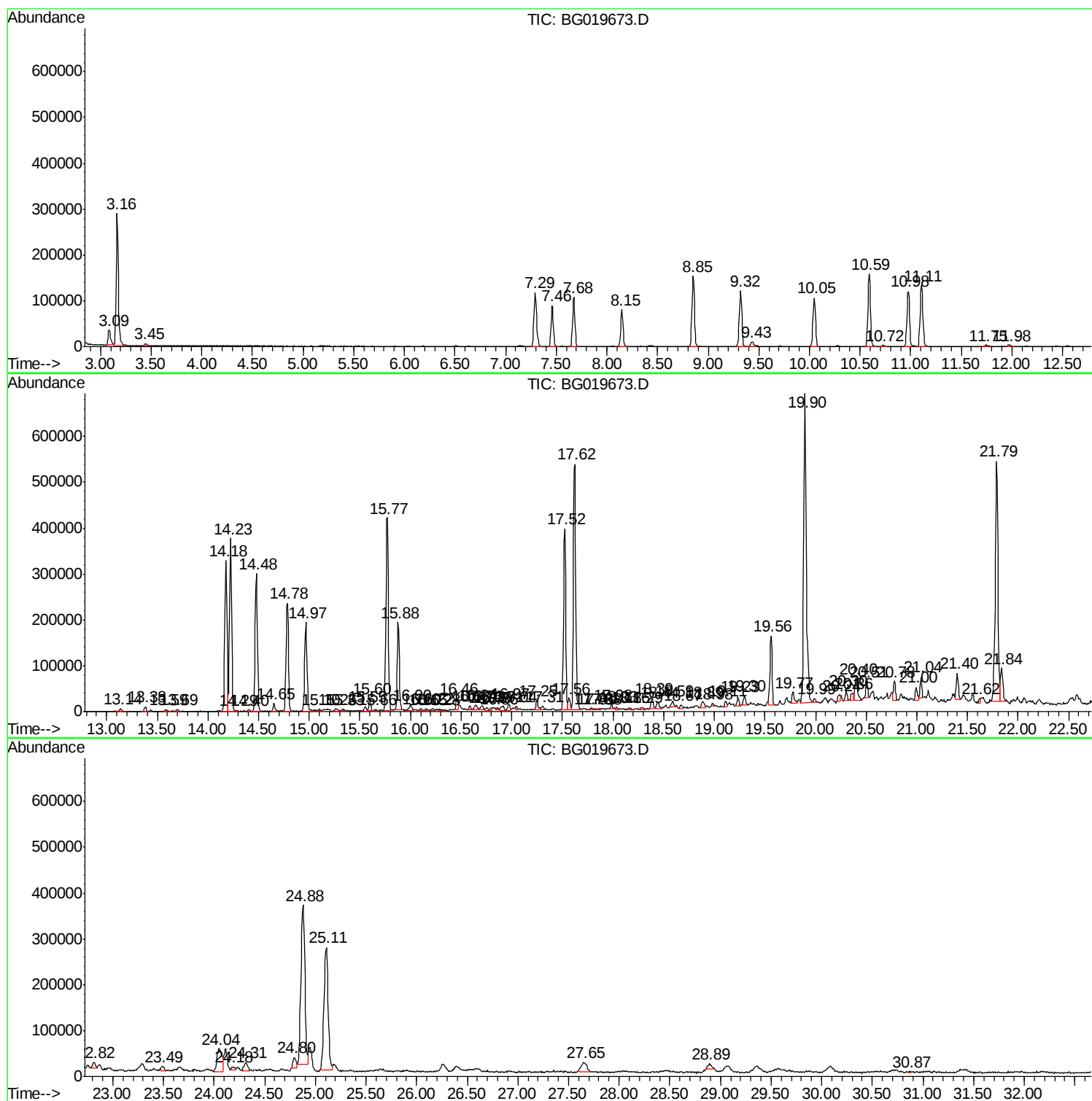
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Quant Method : Z:\HPCHEM1\BNA G\METHODS\SOM02.2-EPA-BG111615.M  
Quant Title : SVOA CALIBRATION

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



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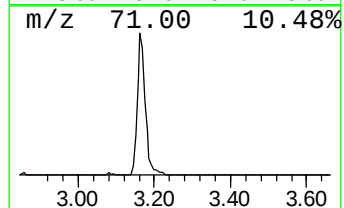
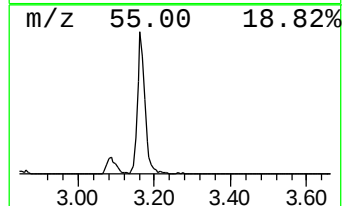
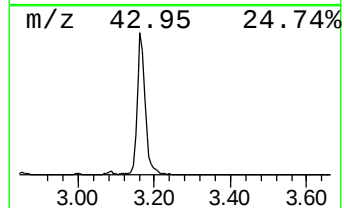
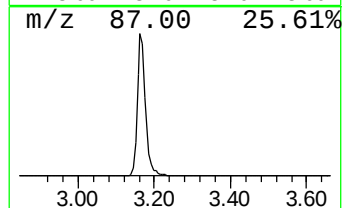
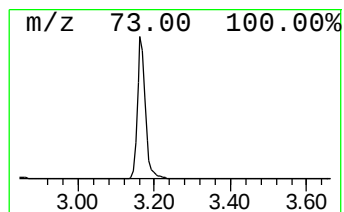
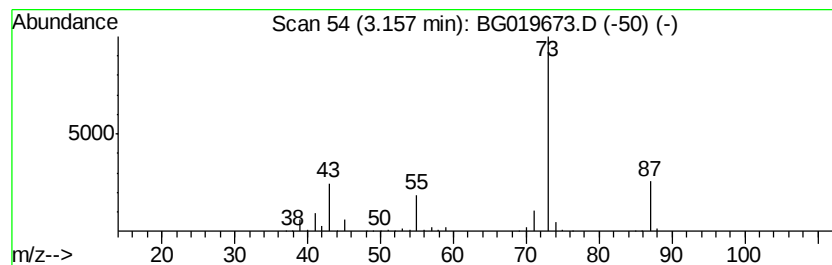
Quant Method : Z:\HPCHEM1\BNA G\METHODS\SOM02.2-EPA-BG111615.M  
Quant Title : SVOA CALIBRATION

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

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

| R.T. | EstConc     | Area   | Relative to ISTD       | R.T. |
|------|-------------|--------|------------------------|------|
| 3.16 | 59.27 ng/ul | 404939 | 1,4-Dichlorobenzene-d4 | 8.15 |

| Hit# | of | Tentative ID                | MW  | MolForm | CAS#        | Qual |
|------|----|-----------------------------|-----|---------|-------------|------|
| 1    | 5  | Butane, 2-methoxy-2-methyl- | 102 | C6H14O  | 000994-05-8 | 83   |
| 2    |    | Butane, 2-methoxy-2-methyl- | 102 | C6H14O  | 000994-05-8 | 64   |
| 3    |    | Pentane, 3-methoxy-         | 102 | C6H14O  | 036839-67-5 | 17   |
| 4    |    | Acetamide, N-ethyl-         | 87  | C4H9NO  | 000625-50-3 | 10   |
| 5    |    | Silane, tetramethyl-        | 88  | C4H12Si | 000075-76-3 | 9    |



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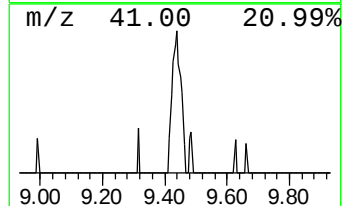
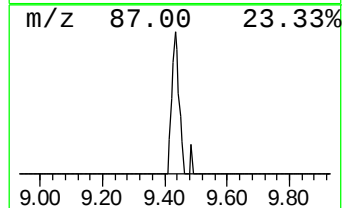
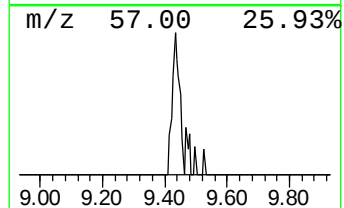
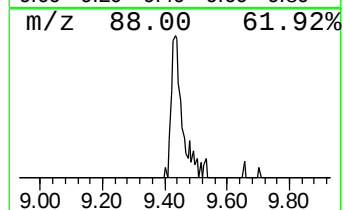
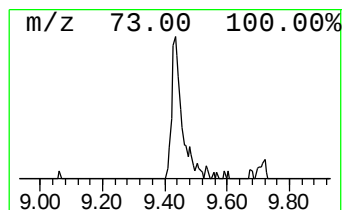
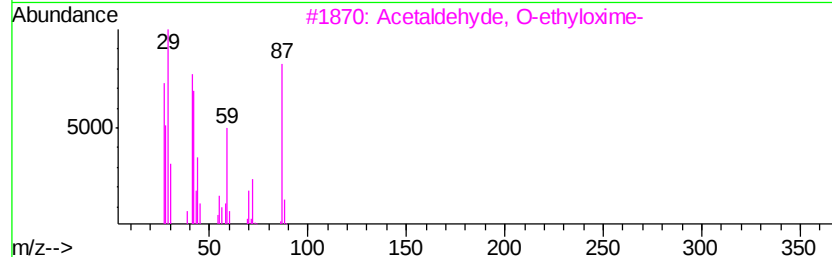
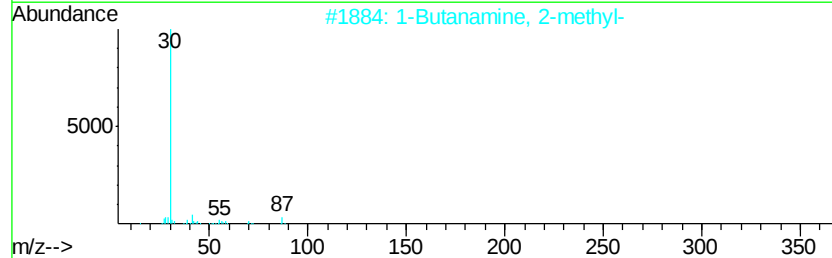
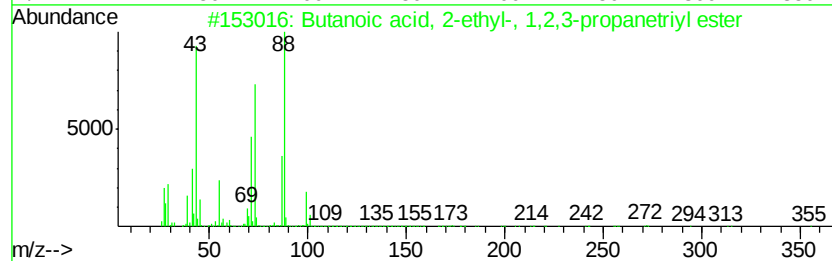
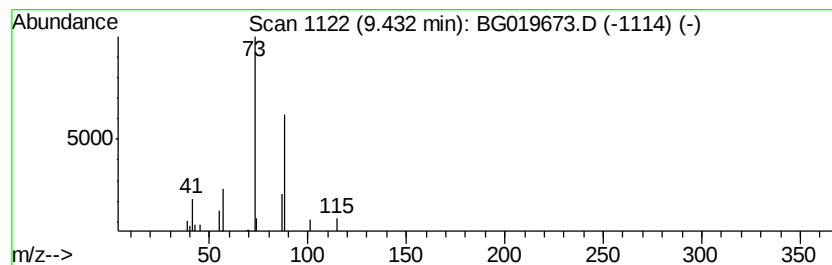
TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 3 unknown-01 Concentration Rank 3

| R.T. | EstConc    | Area  | Relative to ISTD       | R.T. |
|------|------------|-------|------------------------|------|
| 9.43 | 3.52 ng/ul | 24063 | 1,4-Dichlorobenzene-d4 | 8.15 |

| Hit# | of | Tentative ID                        | MW  | MolForm  | CAS#         | Qual |
|------|----|-------------------------------------|-----|----------|--------------|------|
| 1    | 5  | Butanoic acid, 2-ethyl-, 1,2,3-p... | 386 | C21H38O6 | 056554-54-2  | 42   |
| 2    |    | 1-Butanamine, 2-methyl-             | 87  | C5H13N   | 000096-15-1  | 9    |
| 3    |    | Acetaldehyde, O-ethyloxime-         | 87  | C4H9NO   | 1000288-34-6 | 9    |
| 4    |    | Propane, 2-methoxy-2-methyl-        | 88  | C5H12O   | 001634-04-4  | 9    |
| 5    |    | Propane, 2-methoxy-2-methyl-        | 88  | C5H12O   | 001634-04-4  | 9    |



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Quant Method : Z:\HPCHEM1\BNA G\METHODS\SOM02.2-EPA-BG111615.M  
Quant Title : SVOA CALIBRATION

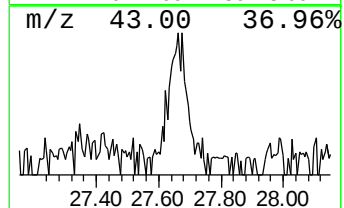
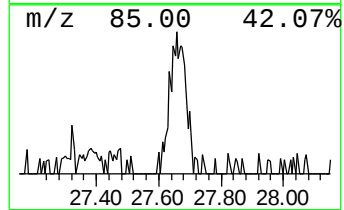
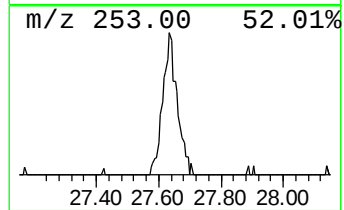
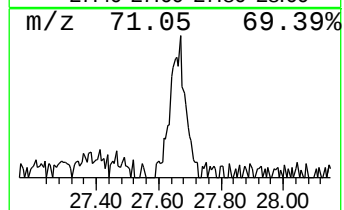
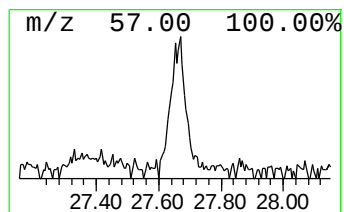
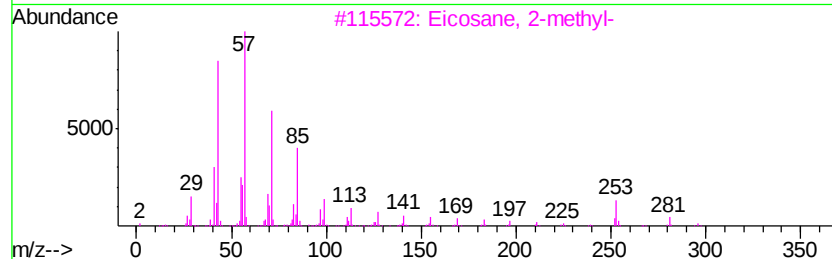
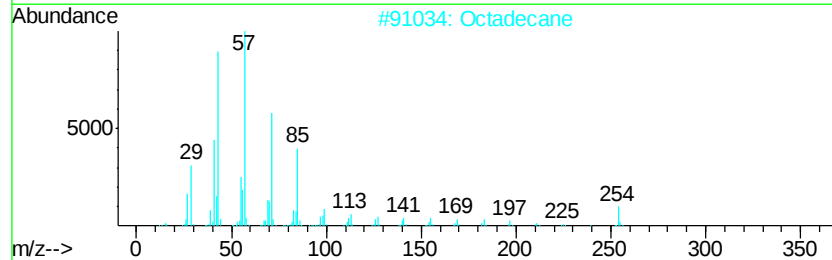
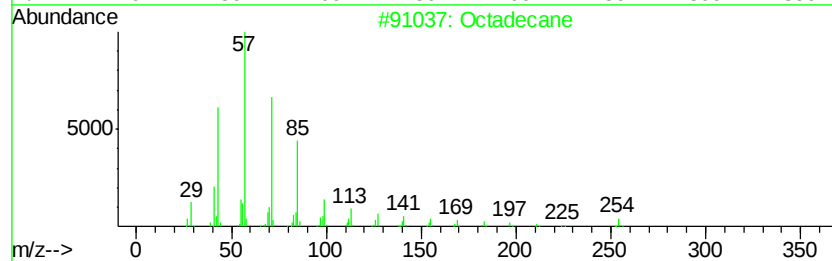
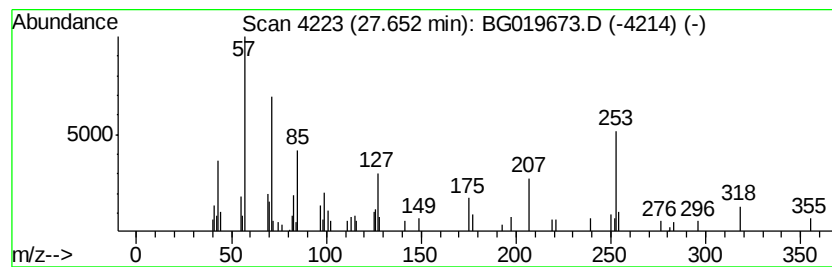
TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 4 (DEL) Alkane: Straight-Chai... Concentration Rank 4

| R.T.  | EstConc    | Area  | Relative to ISTD | R.T.  |
|-------|------------|-------|------------------|-------|
| 27.65 | 2.02 ng/ul | 78683 | Perylene-d12     | 25.11 |

| Hit# | of | Tentative ID        | MW  | MolForm | CAS#        | Qual |
|------|----|---------------------|-----|---------|-------------|------|
| 1    | 5  | Octadecane          | 254 | C18H38  | 000593-45-3 | 46   |
| 2    |    | Octadecane          | 254 | C18H38  | 000593-45-3 | 46   |
| 3    |    | Eicosane, 2-methyl- | 296 | C21H44  | 001560-84-5 | 43   |
| 4    |    | Heneicosane         | 296 | C21H44  | 000629-94-7 | 41   |
| 5    |    | Heptacosane         | 380 | C27H56  | 000593-49-7 | 38   |



Data Path : Z:\HPCHEM1\BNA\_G\DATA\BG111715\  
Data File : BG019673.D  
Acq On : 17 Nov 2015 23:34  
Operator : UM/NP  
Sample : G4427-15  
Misc :  
ALS Vial : 15 Sample Multiplier: 1

Instrument :  
BNA\_G  
ClientSampleId :  
BC7A1

Quant Method : Z:\HPCHEM1\BNA\_G\METHODS\SOM02.2-EPA-BG111615.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 |
| Butane, 2-methoxy... | 3.16  | 59.3    | ng/ul | 404939   | 1                     | 8.15  | 136649 | 20.0 |
| unknown-01           | 9.43  | 3.5     | ng/ul | 24063    | 1                     | 8.15  | 136649 | 20.0 |
| (DEL) Alkane: Str... | 27.65 | 2.0     | ng/ul | 78683    | 6                     | 25.11 | 778292 | 20.0 |