

Data Path : Z:\SVOASRV\HPCHEM1\BNA G\DATA\BG081519\  
 Data File : BG042241.D  
 Acq On : 15 Aug 2019 22:46  
 Operator : HP/JU  
 Sample : K4183-15  
 Misc :  
 ALS Vial : 22 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleId :  
 C0AG1

## 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:\SVOASRV\HPCHEM1\BNA\_G\METHODS\SOM-EPA-BG080319MA.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      | 3.140    | 4          | 9        | 30        | rVB   | 1744609     | 2842704    | 100.00%      | 20.933%    |
| 2      | 3.410    | 51         | 55       | 60        | rVB4  | 4646        | 7072       | 0.25%        | 0.052%     |
| 3      | 3.939    | 141        | 145      | 153       | rVB5  | 4602        | 8471       | 0.30%        | 0.062%     |
| 4      | 4.068    | 163        | 167      | 173       | rVB2  | 11802       | 18890      | 0.66%        | 0.139%     |
| 5      | 4.168    | 180        | 184      | 189       | rVB4  | 2224        | 3419       | 0.12%        | 0.025%     |
| 6      | 4.262    | 197        | 200      | 205       | rVB3  | 4564        | 6665       | 0.23%        | 0.049%     |
| 7      | 5.091    | 337        | 341      | 350       | rVB   | 9423        | 15772      | 0.55%        | 0.116%     |
| 8      | 6.389    | 558        | 562      | 568       | rVB3  | 4650        | 7144       | 0.25%        | 0.053%     |
| 9      | 7.182    | 687        | 697      | 711       | rBV2  | 93830       | 223901     | 7.88%        | 1.649%     |
| 10     | 7.341    | 718        | 724      | 734       | rBV   | 70747       | 126625     | 4.45%        | 0.932%     |
| 11     | 7.552    | 754        | 760      | 773       | rVB   | 104219      | 196517     | 6.91%        | 1.447%     |
| 12     | 8.023    | 833        | 840      | 850       | rBV   | 195685      | 355191     | 12.49%       | 2.616%     |
| 13     | 8.675    | 946        | 951      | 955       | rBV4  | 2181        | 3289       | 0.12%        | 0.024%     |
| 14     | 8.739    | 955        | 962      | 970       | rBV2  | 75539       | 153145     | 5.39%        | 1.128%     |
| 15     | 8.851    | 975        | 981      | 992       | rVB   | 44521       | 84878      | 2.99%        | 0.625%     |
| 16     | 8.992    | 1001       | 1005     | 1011      | rBV4  | 2194        | 5308       | 0.19%        | 0.039%     |
| 17     | 9.192    | 1032       | 1039     | 1047      | rVB   | 93328       | 174628     | 6.14%        | 1.286%     |
| 18     | 9.297    | 1053       | 1057     | 1065      | rVB4  | 3416        | 6141       | 0.22%        | 0.045%     |
| 19     | 9.632    | 1109       | 1114     | 1119      | rBV3  | 2758        | 3992       | 0.14%        | 0.029%     |
| 20     | 9.726    | 1125       | 1130     | 1134      | rBV3  | 1607        | 3070       | 0.11%        | 0.023%     |
| 21     | 9.920    | 1156       | 1163     | 1171      | rBV2  | 85290       | 157105     | 5.53%        | 1.157%     |
| 22     | 10.279   | 1220       | 1224     | 1233      | rVB2  | 7228        | 13962      | 0.49%        | 0.103%     |
| 23     | 10.473   | 1250       | 1257     | 1268      | rBV   | 132736      | 263058     | 9.25%        | 1.937%     |
| 24     | 10.849   | 1313       | 1321     | 1336      | rBV   | 286206      | 521333     | 18.34%       | 3.839%     |
| 25     | 10.984   | 1336       | 1344     | 1359      | rBV   | 48976       | 115494     | 4.06%        | 0.850%     |
| 26     | 12.229   | 1549       | 1556     | 1559      | rBV3  | 1595        | 2962       | 0.10%        | 0.022%     |
| 27     | 12.382   | 1577       | 1582     | 1586      | rBV5  | 2659        | 4532       | 0.16%        | 0.033%     |
| 28     | 12.441   | 1588       | 1592     | 1595      | rBV2  | 3336        | 5421       | 0.19%        | 0.040%     |
| 29     | 12.517   | 1601       | 1605     | 1610      | rBV   | 2195        | 3477       | 0.12%        | 0.026%     |
| 30     | 12.729   | 1635       | 1641     | 1642      | rBV2  | 2350        | 2962       | 0.10%        | 0.022%     |
| 31     | 13.475   | 1763       | 1768     | 1772      | rBV4  | 2279        | 3860       | 0.14%        | 0.028%     |
| 32     | 13.863   | 1829       | 1834     | 1840      | rBV4  | 4285        | 8234       | 0.29%        | 0.061%     |
| 33     | 14.010   | 1854       | 1859     | 1864      | rBV6  | 6428        | 11015      | 0.39%        | 0.081%     |
| 34     | 14.080   | 1864       | 1871     | 1876      | rBV   | 286344      | 433710     | 15.26%       | 3.194%     |

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Method : Z:\SVOASRV\HPCHEM1\BNA\_G\METHODS\SOM-EPA-BG080319MA.M  
 Title : SVOA CALIBRATION

|    |        |      |      |      |      |        |         |        |        |
|----|--------|------|------|------|------|--------|---------|--------|--------|
| 35 | 14.127 | 1876 | 1879 | 1889 | rVB  | 95120  | 143740  | 5.06%  | 1.058% |
| 36 | 14.233 | 1894 | 1897 | 1902 | rVV6 | 2486   | 4373    | 0.15%  | 0.032% |
| 37 | 14.380 | 1912 | 1922 | 1935 | rBV  | 334400 | 569223  | 20.02% | 4.192% |
| 38 | 14.480 | 1935 | 1939 | 1943 | rBV7 | 4316   | 7950    | 0.28%  | 0.059% |
| 39 | 14.521 | 1943 | 1946 | 1951 | rVB5 | 8411   | 10169   | 0.36%  | 0.075% |
| 40 | 14.585 | 1952 | 1957 | 1961 | rBV6 | 5288   | 8962    | 0.32%  | 0.066% |
| 41 | 14.685 | 1965 | 1974 | 1980 | rBV  | 497222 | 798667  | 28.10% | 5.881% |
| 42 | 14.750 | 1980 | 1985 | 1995 | rVB  | 30885  | 52957   | 1.86%  | 0.390% |
| 43 | 14.891 | 2003 | 2009 | 2019 | rBV2 | 56045  | 132994  | 4.68%  | 0.979% |
| 44 | 15.044 | 2029 | 2035 | 2038 | rBV8 | 5400   | 10746   | 0.38%  | 0.079% |
| 45 | 15.085 | 2038 | 2042 | 2050 | rVB  | 16933  | 30633   | 1.08%  | 0.226% |
| 46 | 15.349 | 2084 | 2087 | 2093 | rVB6 | 9043   | 13893   | 0.49%  | 0.102% |
| 47 | 15.479 | 2105 | 2109 | 2114 | rVB5 | 18734  | 26265   | 0.92%  | 0.193% |
| 48 | 15.678 | 2137 | 2143 | 2149 | rBV  | 453464 | 690455  | 24.29% | 5.084% |
| 49 | 15.731 | 2149 | 2152 | 2158 | rVB  | 37371  | 57686   | 2.03%  | 0.425% |
| 50 | 15.802 | 2160 | 2164 | 2169 | rBV  | 29775  | 41981   | 1.48%  | 0.309% |
| 51 | 16.648 | 2304 | 2308 | 2313 | rBV3 | 39751  | 68374   | 2.41%  | 0.503% |
| 52 | 17.041 | 2372 | 2375 | 2380 | rVB2 | 54917  | 70247   | 2.47%  | 0.517% |
| 53 | 17.088 | 2380 | 2383 | 2389 | rVB2 | 25748  | 37751   | 1.33%  | 0.278% |
| 54 | 17.194 | 2396 | 2401 | 2406 | rBV3 | 84542  | 148932  | 5.24%  | 1.097% |
| 55 | 17.253 | 2407 | 2411 | 2416 | rVB3 | 68555  | 103144  | 3.63%  | 0.760% |
| 56 | 17.441 | 2437 | 2443 | 2446 | rBV2 | 552476 | 873141  | 30.72% | 6.430% |
| 57 | 17.482 | 2446 | 2450 | 2454 | rVV  | 499452 | 771909  | 27.15% | 5.684% |
| 58 | 17.535 | 2455 | 2459 | 2463 | rVV  | 442286 | 692678  | 24.37% | 5.101% |
| 59 | 17.570 | 2463 | 2465 | 2470 | rVB  | 150940 | 186638  | 6.57%  | 1.374% |
| 60 | 19.491 | 2788 | 2792 | 2797 | rBV  | 782702 | 1159166 | 40.78% | 8.536% |
| 61 | 19.826 | 2845 | 2849 | 2852 | rBV2 | 667492 | 1073316 | 37.76% | 7.904% |

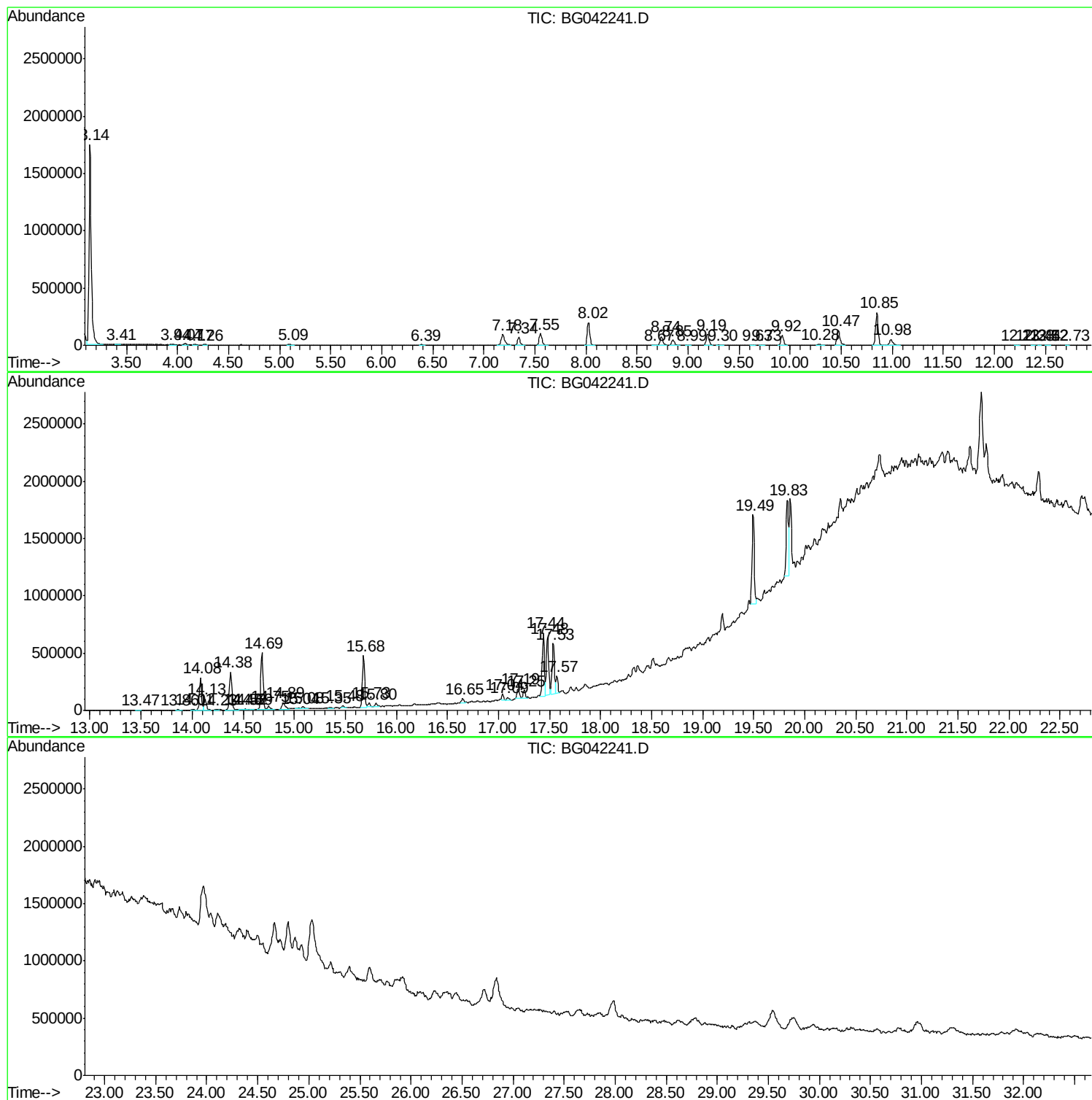
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ClientSampleId :  
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Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_G\METHODS\SOM-EPA-BG080319MA.M  
Quant Title : SVOA CALIBRATION

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



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Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_G\METHODS\SOM-EPA-BG080319MA.M  
Quant Title : SVOA CALIBRATION

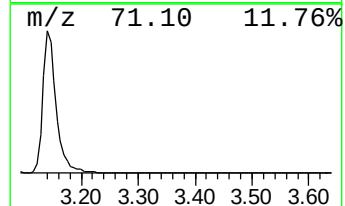
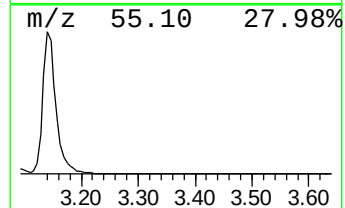
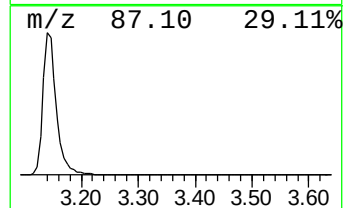
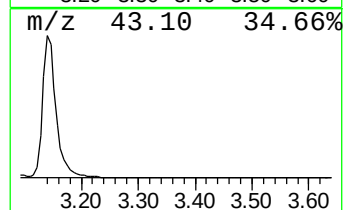
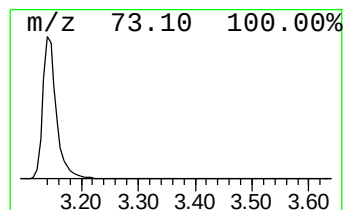
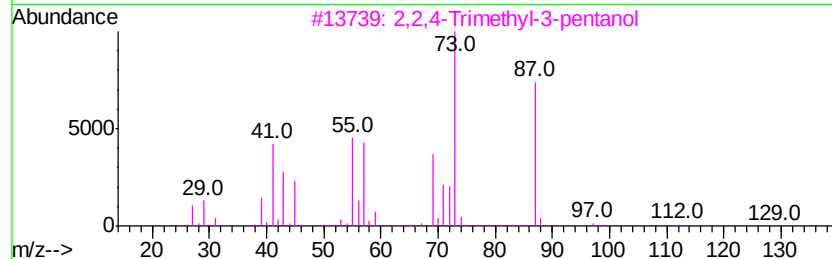
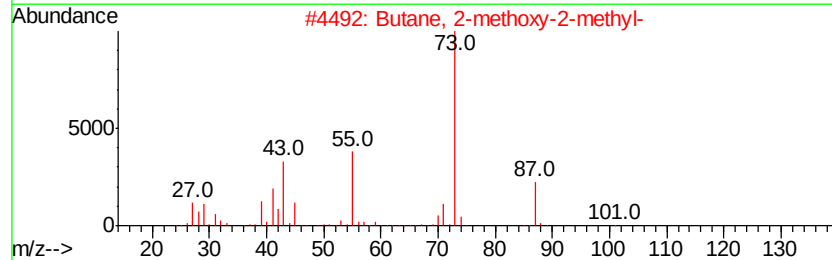
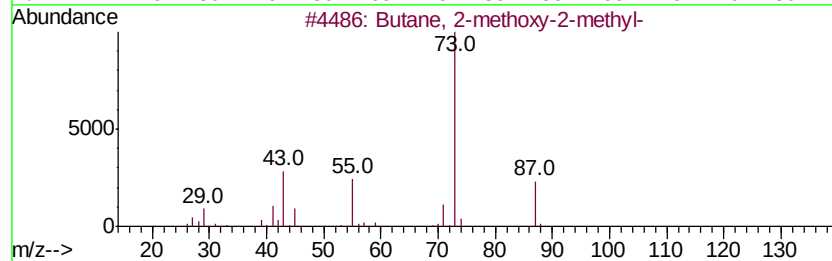
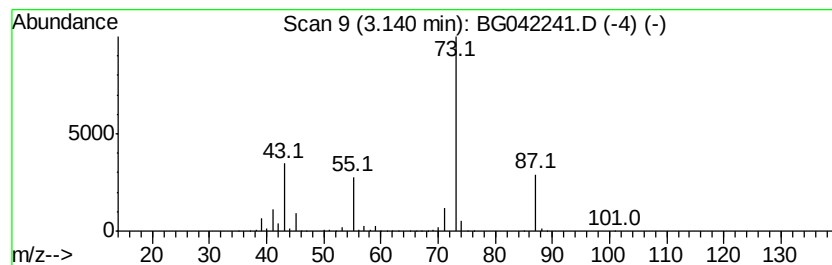
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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

| R.T. | EstConc      | Area    | Relative to ISTD       | R.T. |
|------|--------------|---------|------------------------|------|
| 3.14 | 160.07 ng/ul | 2842700 | 1,4-Dichlorobenzene-d4 | 8.03 |

| Hit# | of | Tentative ID                | MW  | MolForm | CAS#        | Qual |
|------|----|-----------------------------|-----|---------|-------------|------|
| 1    | 5  | Butane, 2-methoxy-2-methyl- | 102 | C6H14O  | 000994-05-8 | 78   |
| 2    |    | Butane, 2-methoxy-2-methyl- | 102 | C6H14O  | 000994-05-8 | 59   |
| 3    |    | 2,2,4-Trimethyl-3-pentanol  | 130 | C8H18O  | 005162-48-1 | 40   |
| 4    |    | Acetamide, N-ethyl-         | 87  | C4H9NO  | 000625-50-3 | 22   |
| 5    |    | Pentane, 3-methoxy-         | 102 | C6H14O  | 036839-67-5 | 17   |



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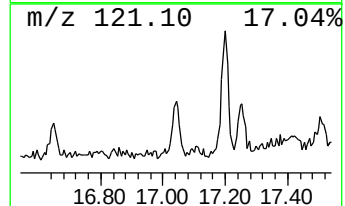
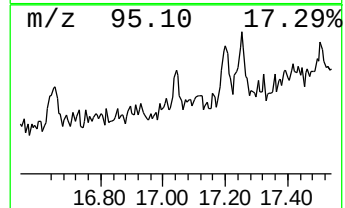
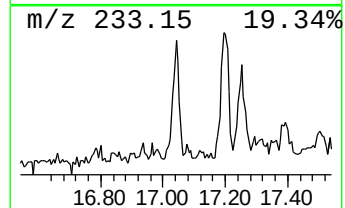
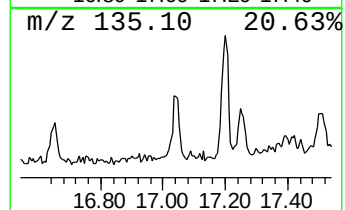
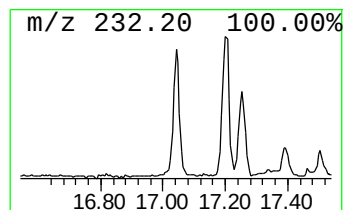
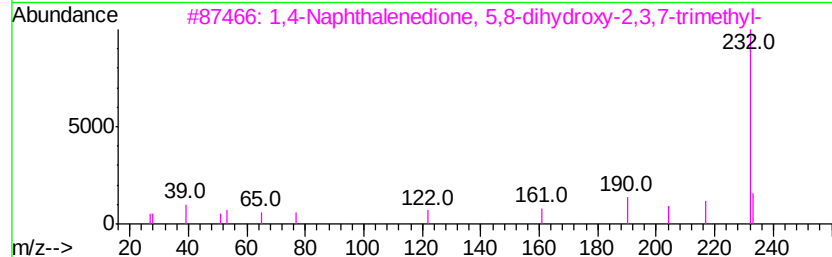
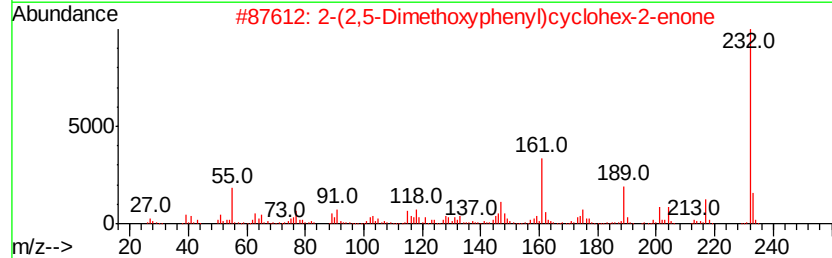
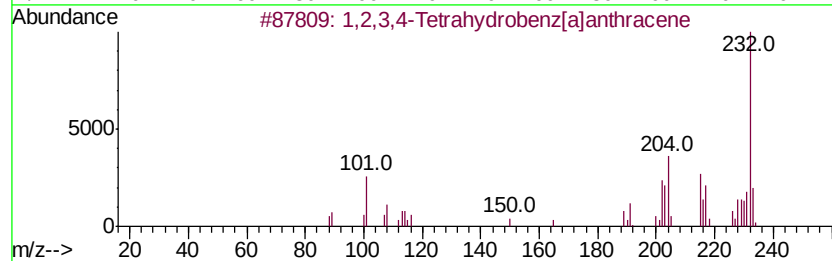
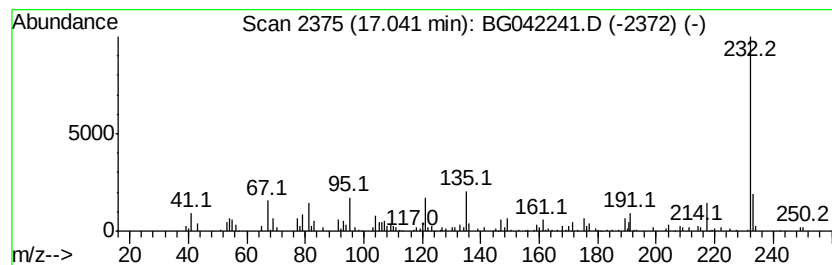
Instrument :  
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ClientSampleId :  
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Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_G\METHODS\SOM-EPA-BG080319MA.M  
Quant Title : SVOA CALIBRATION

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

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Peak Number 2 1,2,3,4-Tetrahydrobenz[a]an... Concentration Rank 4

| R.T.    | EstConc                             | Area         | Relative to ISTD | R.T.    |              |      |
|---------|-------------------------------------|--------------|------------------|---------|--------------|------|
| 17.04   | 2.03 ng/ul                          | 70247        | Phenanthrene-d10 | 17.53   |              |      |
| Hit# of | 5                                   | Tentative ID | MW               | MolForm | CAS#         | Qual |
| 1       | 1,2,3,4-Tetrahydrobenz[alanthracene | 232          | C18H16           |         | 004483-98-1  | 53   |
| 2       | 2-(2,5-Dimethoxyphenyl)cyclohex-... | 232          | C14H16O3         |         | 001848-12-0  | 52   |
| 3       | 1,4-Naphthalenedione, 5,8-dihydr... | 232          | C13H12O4         |         | 032741-24-5  | 50   |
| 4       | 11H-Indeno[1,2-b]quinoxaline, 2-... | 232          | C16H12N2         |         | 081829-02-9  | 50   |
| 5       | 1,3-dimethyl-2-phenyl-naphthalene   | 232          | C18H16           |         | 1000379-93-4 | 50   |



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Quant Title : SVOA CALIBRATION

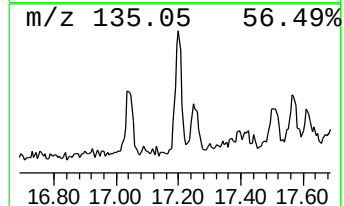
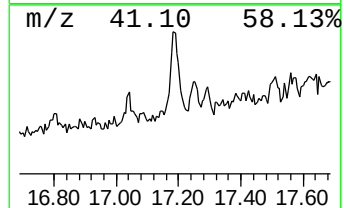
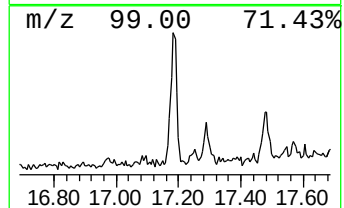
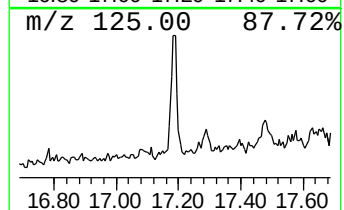
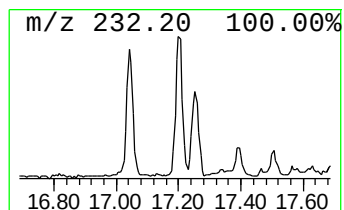
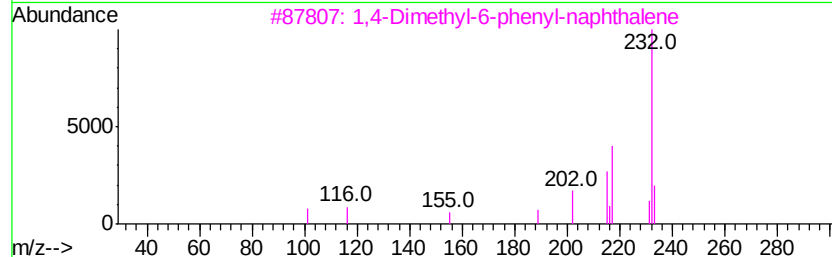
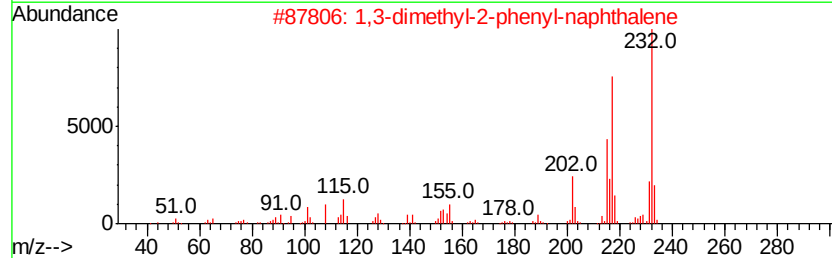
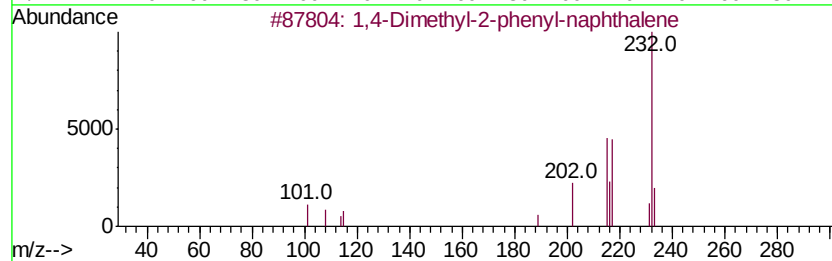
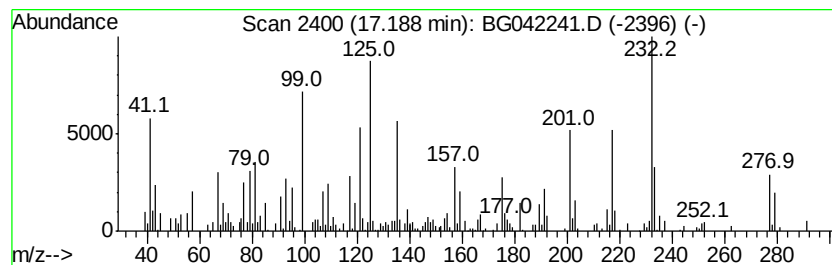
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 3 unknown-01 Concentration Rank 2

| R.T.  | EstConc    | Area   | Relative to ISTD | R.T.  |
|-------|------------|--------|------------------|-------|
| 17.19 | 4.30 ng/ul | 148932 | Phenanthrene-d10 | 17.53 |

| Hit# | of | 5 | Tentative ID                        | MW  | MolForm | CAS#         | Qual |
|------|----|---|-------------------------------------|-----|---------|--------------|------|
| 1    |    |   | 1,4-Dimethyl-2-phenyl-naphthalene   | 232 | C18H16  | 051036-91-0  | 43   |
| 2    |    |   | 1,3-dimethyl-2-phenyl-naphthalene   | 232 | C18H16  | 1000379-93-4 | 37   |
| 3    |    |   | 1,4-Dimethyl-6-phenyl-naphthalene   | 232 | C18H16  | 051036-93-2  | 37   |
| 4    |    |   | 1-Methyl-4-p-tolyl-naphthalene      | 232 | C18H16  | 093870-57-6  | 35   |
| 5    |    |   | Bicyclo[3.1.0]hex-2-ene, 5,6-dip... | 232 | C18H16  | 056143-24-9  | 35   |



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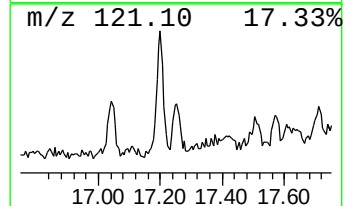
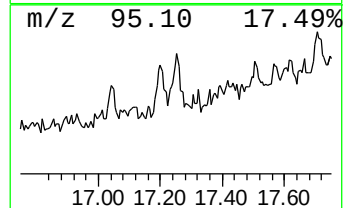
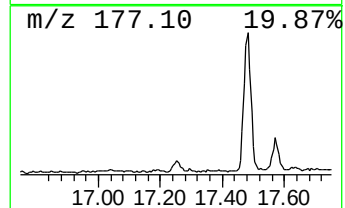
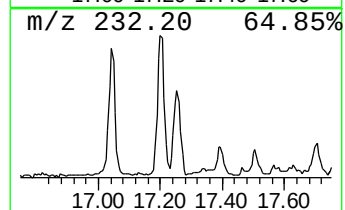
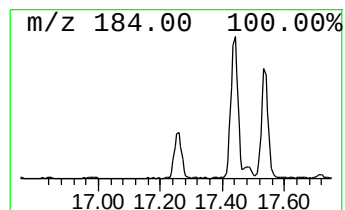
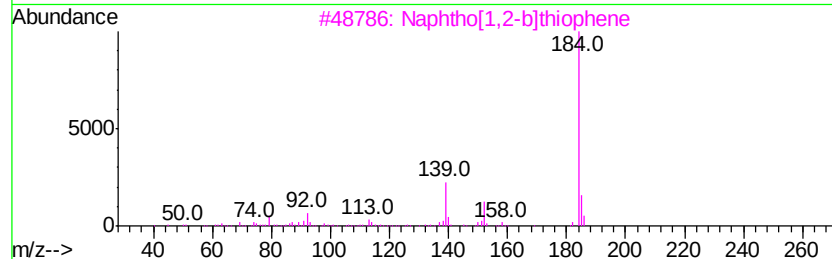
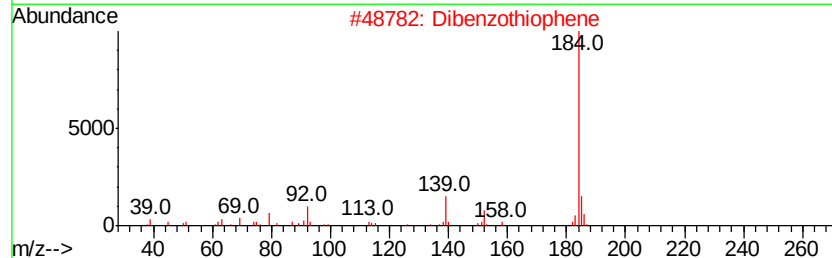
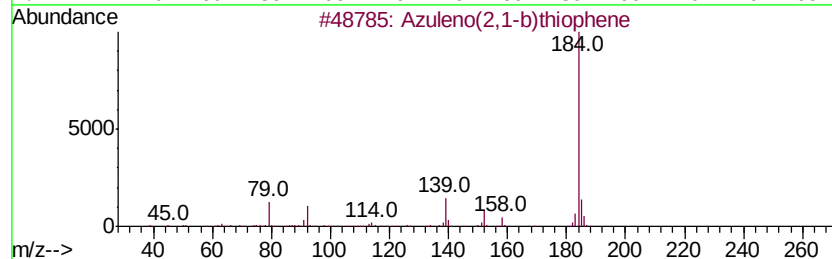
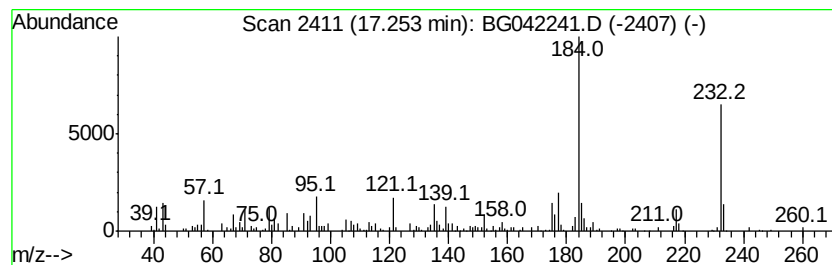
Instrument :  
BNA\_G  
ClientSampleId :  
C0AG1

Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_G\METHODS\SOM-EPA-BG080319MA.M  
Quant Title : SVOA CALIBRATION

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

\*\*\*\*\*  
Peak Number 4 Azuleno(2,1-b)thiophene Concentration Rank 3

| R.T.    | EstConc    | Area                    | Relative to ISTD |         | R.T.        |      |
|---------|------------|-------------------------|------------------|---------|-------------|------|
| 17.25   | 2.98 ng/ul | 103144                  | Phenanthrene-d10 |         | 17.53       |      |
| Hit# of | 5          | Tentative ID            | MW               | MolForm | CAS#        | Qual |
| 1       |            | Azuleno(2,1-b)thiophene | 184              | C12H8S  | 000248-13-5 | 64   |
| 2       |            | Dibenzothiophene        | 184              | C12H8S  | 000132-65-0 | 50   |
| 3       |            | Naphtho[1,2-b]thiophene | 184              | C12H8S  | 000234-41-3 | 50   |
| 4       |            | Naphtho[2,3-b]thiophene | 184              | C12H8S  | 000268-77-9 | 50   |
| 5       |            | Dibenzothiophene        | 184              | C12H8S  | 000132-65-0 | 50   |



Data Path : Z:\SVOASRV\HPCHEM1\BNA\_G\DATA\BG081519\  
Data File : BG042241.D  
Acq On : 15 Aug 2019 22:46  
Operator : HP/JU  
Sample : K4183-15  
Misc :  
ALS Vial : 22 Sample Multiplier: 1

Instrument :  
BNA\_G  
ClientSampleId :  
C0AG1

Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_G\METHODS\SOM-EPA-BG080319MA.M  
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 |
| Butane, 2-methoxy... | 3.14  | 160.1   | ng/ul | 2842700  | 1                     | 8.03  | 355191 | 20.0 |
| 1,2,3,4-Tetrahydr... | 17.04 | 2.0     | ng/ul | 70247    | 4                     | 17.53 | 692678 | 20.0 |
| unknown-01           | 17.19 | 4.3     | ng/ul | 148932   | 4                     | 17.53 | 692678 | 20.0 |
| Azuleno(2,1-b)thi... | 17.25 | 3.0     | ng/ul | 103144   | 4                     | 17.53 | 692678 | 20.0 |