

Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF020718\  
 Data File : BF102811.D  
 Acq On : 7 Feb 2018 13:20  
 Operator : SJ/JU  
 Sample : J1458-01  
 Misc :  
 ALS Vial : 7 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 SB-01

Integration Parameters: rteint.p  
 Integrator: RTE  
 Smoothing : ON  
 Sampling : 1  
 Start Thrs: 0.2  
 Stop Thrs : 0  
 Filtering: 5  
 Min Area: 3 % 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\_F\METHODS\8270-BF020318.M  
 Title : ASP BNA STANDARDS FOR 5 POINT 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         | 2.187       | 11            | 17          | 28           | rVB      | 495900         | 694606        | 14.69%          | 1.590%        |
| 2         | 5.116       | 511           | 515         | 525          | rVB      | 184996         | 241194        | 5.10%           | 0.552%        |
| 3         | 5.504       | 575           | 581         | 584          | rBV      | 4465627        | 4727669       | 100.00%         | 10.820%       |
| 4         | 6.510       | 746           | 752         | 756          | rBV      | 3990918        | 4651801       | 98.40%          | 10.647%       |
| 5         | 6.651       | 771           | 776         | 779          | rBV      | 4706054        | 4607201       | 97.45%          | 10.545%       |
| 6         | 6.881       | 811           | 815         | 818          | rBV      | 1503624        | 1185985       | 25.09%          | 2.714%        |
| 7         | 7.039       | 837           | 842         | 845          | rBV      | 3646715        | 3382576       | 71.55%          | 7.742%        |
| 8         | 7.445       | 905           | 911         | 914          | rBV      | 2866129        | 3074026       | 65.02%          | 7.036%        |
| 9         | 8.163       | 1028          | 1033        | 1036         | rBV      | 1886734        | 1604627       | 33.94%          | 3.673%        |
| 10        | 9.239       | 1210          | 1216        | 1219         | rBV      | 4613254        | 4404113       | 93.16%          | 10.080%       |
| 11        | 9.627       | 1278          | 1282        | 1285         | rBV      | 534127         | 433599        | 9.17%           | 0.992%        |
| 12        | 9.839       | 1315          | 1318        | 1322         | rVB      | 156264         | 150330        | 3.18%           | 0.344%        |
| 13        | 9.916       | 1327          | 1331        | 1341         | rVB      | 1728324        | 1749412       | 37.00%          | 4.004%        |
| 14        | 10.345      | 1396          | 1404        | 1407         | rBV2     | 189988         | 208690        | 4.41%           | 0.478%        |
| 15        | 10.563      | 1436          | 1441        | 1443         | rBV      | 53544          | 64492         | 1.36%           | 0.148%        |
| 16        | 10.710      | 1459          | 1466        | 1469         | rBV      | 2803107        | 2934132       | 62.06%          | 6.715%        |
| 17        | 10.816      | 1481          | 1484        | 1494         | rVB      | 181497         | 177996        | 3.76%           | 0.407%        |
| 18        | 11.263      | 1557          | 1560        | 1562         | rBV      | 85224          | 64434         | 1.36%           | 0.147%        |
| 19        | 11.404      | 1580          | 1584        | 1588         | rBV      | 1807467        | 1680167       | 35.54%          | 3.845%        |
| 20        | 11.921      | 1669          | 1672        | 1677         | rBV      | 159203         | 162033        | 3.43%           | 0.371%        |
| 21        | 12.798      | 1818          | 1821        | 1826         | rVB2     | 47671          | 51308         | 1.09%           | 0.117%        |
| 22        | 12.992      | 1849          | 1854        | 1857         | rBV      | 4105976        | 4044434       | 85.55%          | 9.257%        |
| 23        | 13.463      | 1930          | 1934        | 1939         | rVB2     | 45785          | 52729         | 1.12%           | 0.121%        |
| 24        | 13.874      | 2000          | 2004        | 2009         | rBV      | 690239         | 644244        | 13.63%          | 1.475%        |
| 25        | 14.045      | 2029          | 2033        | 2041         | rVB      | 1518078        | 1462614       | 30.94%          | 3.348%        |
| 26        | 14.504      | 2107          | 2111        | 2119         | rBV2     | 42700          | 64407         | 1.36%           | 0.147%        |
| 27        | 15.521      | 2278          | 2284        | 2294         | rBV2     | 832793         | 1173487       | 24.82%          | 2.686%        |

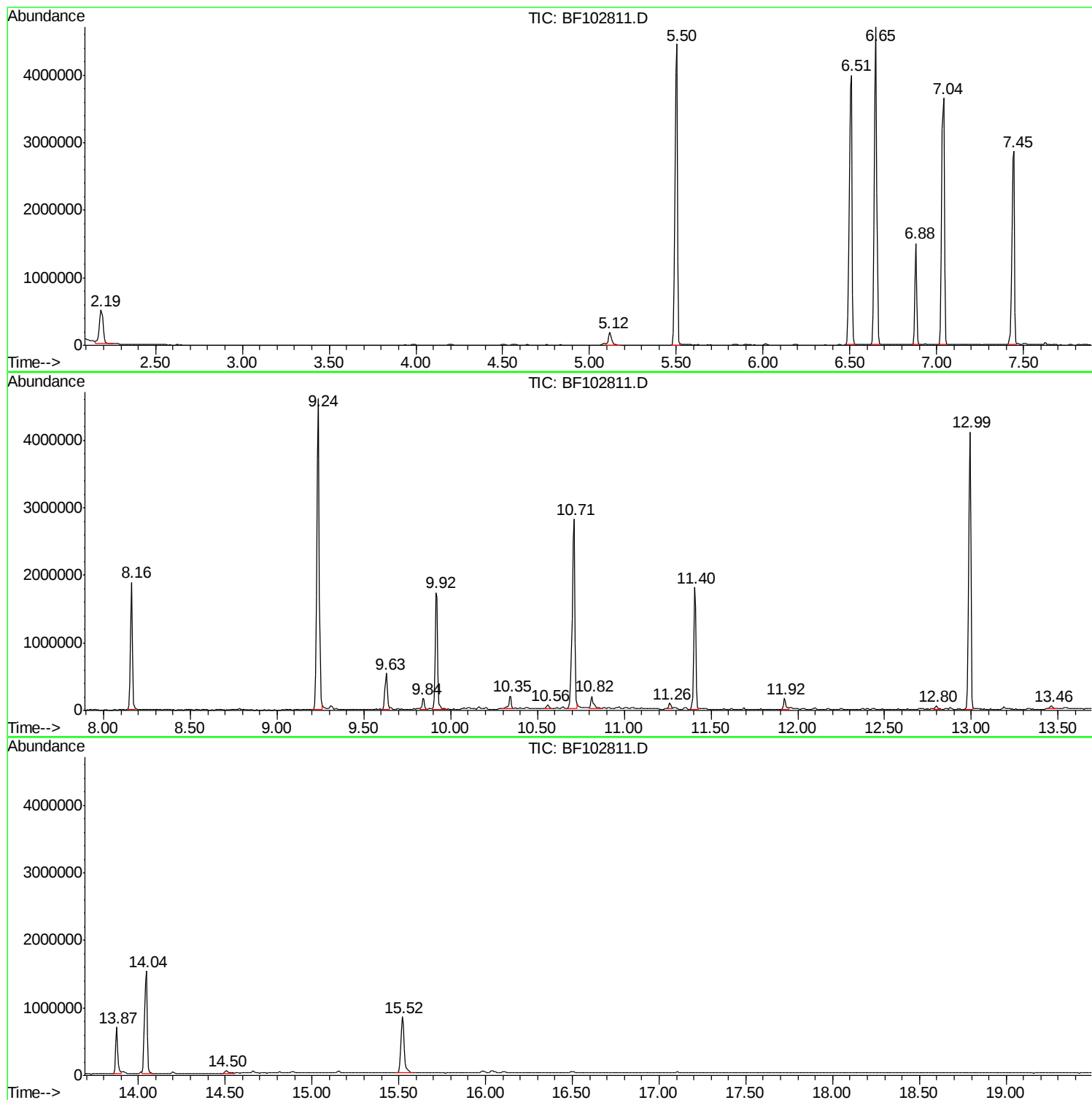
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ClientSampleId :  
SB-01

Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF020318.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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



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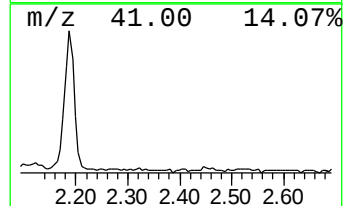
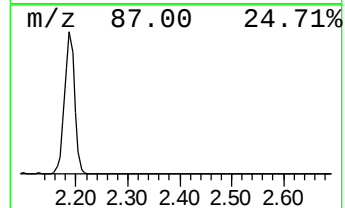
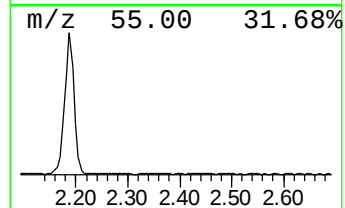
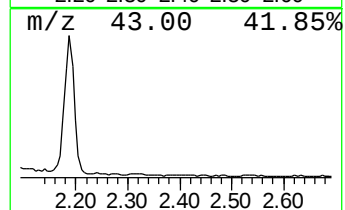
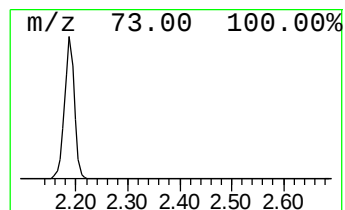
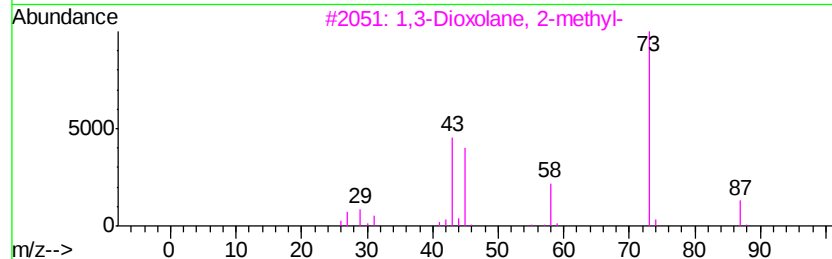
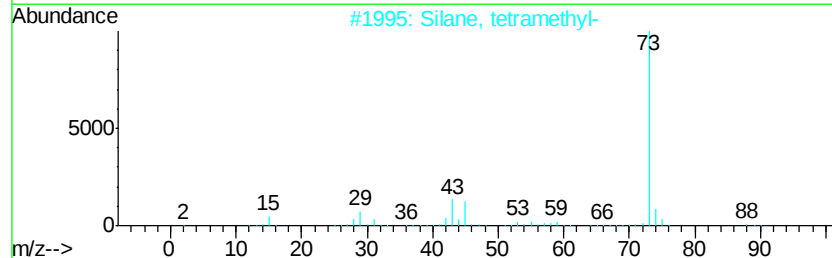
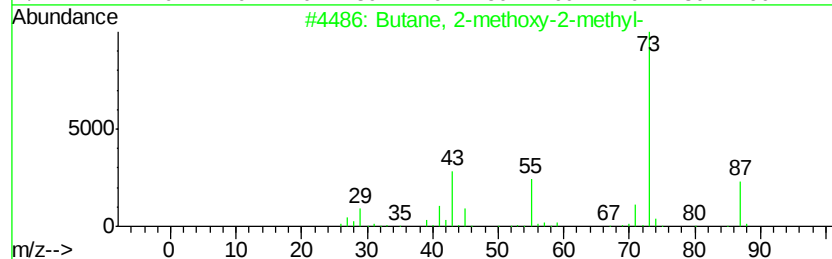
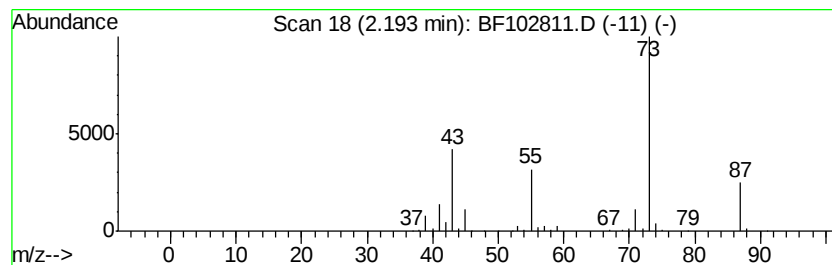
Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF020318.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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 3

| R.T. | EstConc  | Area   | Relative to ISTD       | R.T. |
|------|----------|--------|------------------------|------|
| 2.19 | 11.71 ng | 694606 | 1,4-Dichlorobenzene-d4 | 6.88 |

| Hit# | of | 5 | Tentative ID                | MW  | MolForm | CAS#        | Qual |
|------|----|---|-----------------------------|-----|---------|-------------|------|
| 1    |    |   | Butane, 2-methoxy-2-methyl- | 102 | C6H14O  | 000994-05-8 | 83   |
| 2    |    |   | Silane, tetramethyl-        | 88  | C4H12Si | 000075-76-3 | 35   |
| 3    |    |   | 1,3-Dioxolane, 2-methyl-    | 88  | C4H8O2  | 000497-26-7 | 25   |
| 4    |    |   | Pentane, 3-methoxy-         | 102 | C6H14O  | 036839-67-5 | 12   |
| 5    |    |   | Borane, dimethoxy-          | 74  | C2H7BO2 | 004542-61-4 | 9    |



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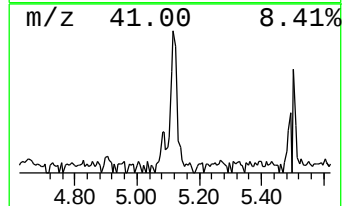
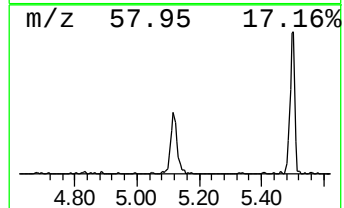
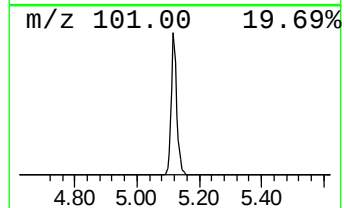
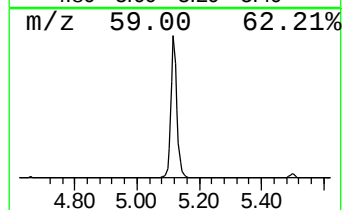
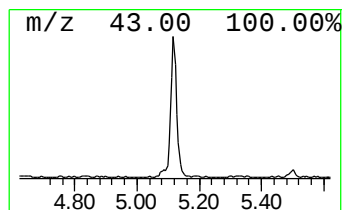
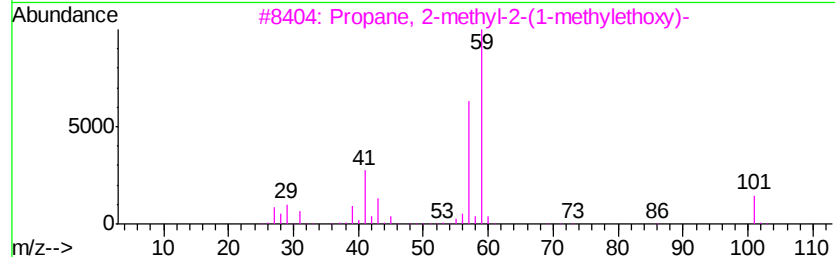
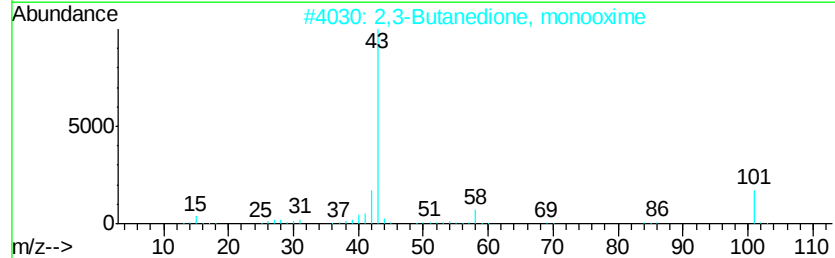
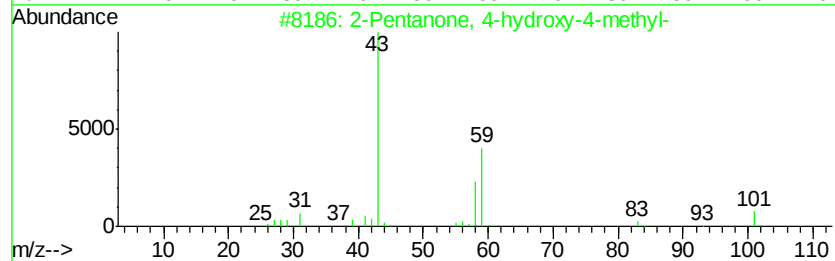
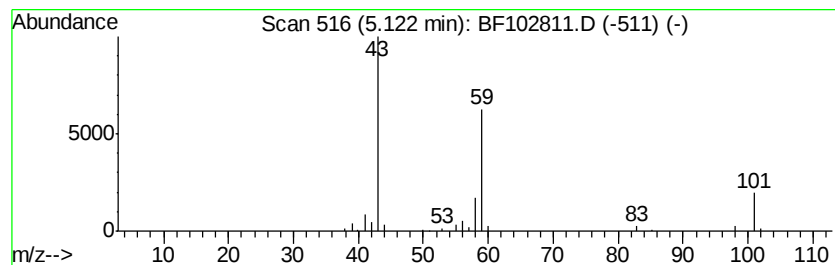
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TIC Integration Parameters: LSCINT.P

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Peak Number 2 2-Pentanone, 4-hydroxy-4-me... Concentration Rank 5

| R.T. | EstConc | Area   | Relative to ISTD       | R.T. |
|------|---------|--------|------------------------|------|
| 5.12 | 4.07 ng | 241194 | 1,4-Dichlorobenzene-d4 | 6.88 |

| Hit# | of | Tentative ID                          | MW  | MolForm  | CAS#        | Qual |
|------|----|---------------------------------------|-----|----------|-------------|------|
| 1    | 5  | 2-Pentanone, 4-hydroxy-4-methyl-      | 116 | C6H12O2  | 000123-42-2 | 56   |
| 2    |    | 2,3-Butanedione, monooxime            | 101 | C4H7NO2  | 000057-71-6 | 35   |
| 3    |    | Propane, 2-methyl-2-(1-methylethoxy)- | 116 | C7H16O   | 017348-59-3 | 28   |
| 4    |    | Acetic acid, cyano-, 1,1-dimethyl-    | 141 | C7H11NO2 | 001116-98-9 | 17   |
| 5    |    | Guanidine                             | 59  | CH5N3    | 000113-00-8 | 9    |



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ALS Vial : 7 Sample Multiplier: 1

Instrument :  
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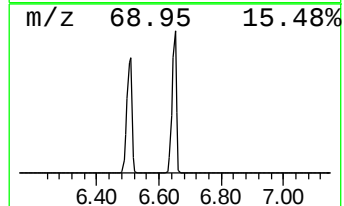
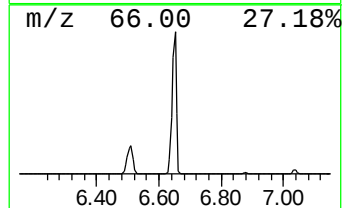
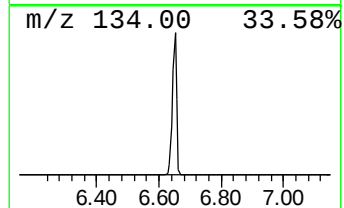
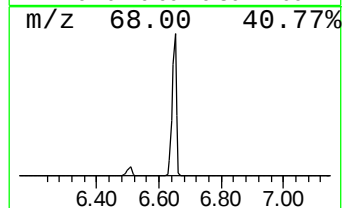
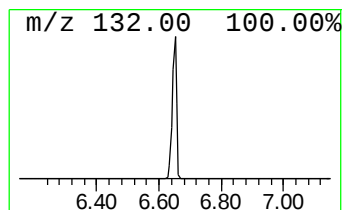
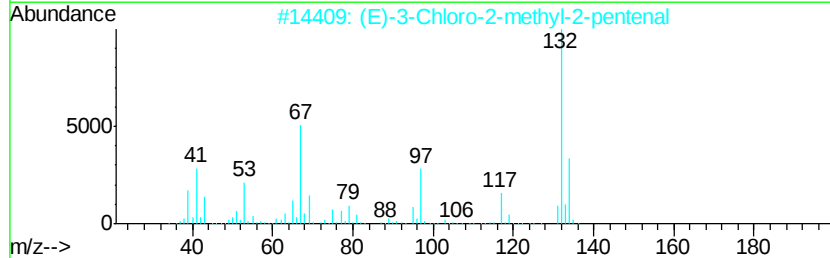
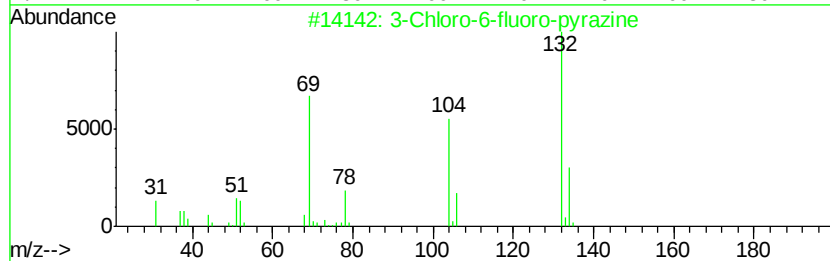
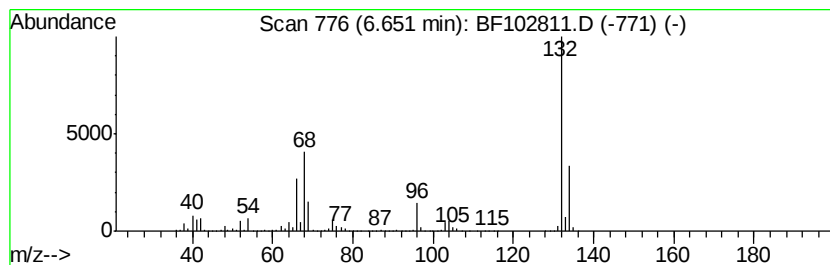
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\DATABASE\NIST11.L  
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Peak Number 3 unknown6.65 Concentration Rank 1

| R.T. | EstConc  | Area    | Relative to ISTD       | R.T. |
|------|----------|---------|------------------------|------|
| 6.65 | 77.69 ng | 4607200 | 1,4-Dichlorobenzene-d4 | 6.88 |

| Hit# | of | Tentative ID                        | MW  | MolForm   | CAS#         | Qual |
|------|----|-------------------------------------|-----|-----------|--------------|------|
| 1    | 5  | 3-Chloro-6-fluoro-pyrazine          | 132 | C4H2ClFN2 | 1000146-10-7 | 27   |
| 2    |    | (E)-3-Chloro-2-methyl-2-pentenal    | 132 | C6H9ClO   | 031357-76-3  | 17   |
| 3    |    | Tranvlcyproline-propionyl           | 189 | C12H15NO  | 1000123-86-3 | 10   |
| 4    |    | Bicyclo[4.2.0]octa-1,3,5-triene,... | 132 | C10H12    | 028749-81-7  | 9    |
| 5    |    | 5-Fluoro-2-chloropyrimidine         | 132 | C4H2ClFN2 | 062802-42-0  | 9    |



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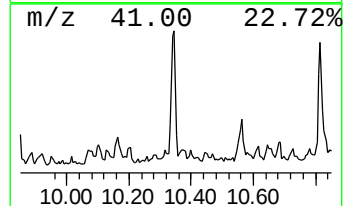
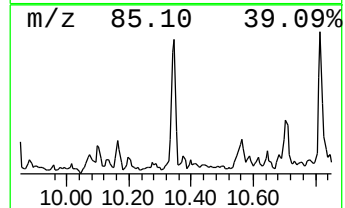
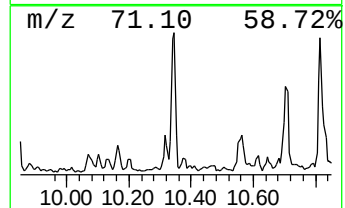
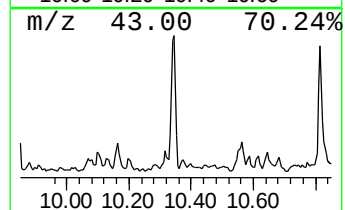
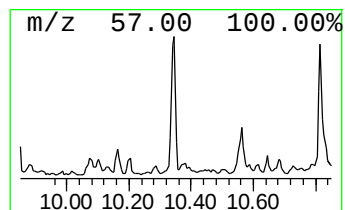
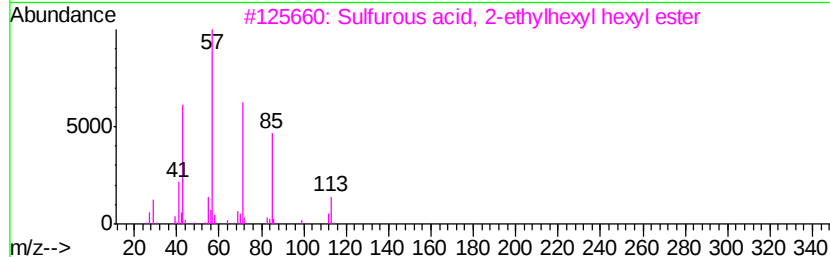
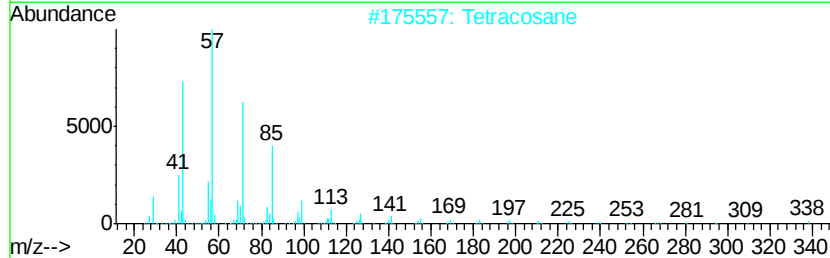
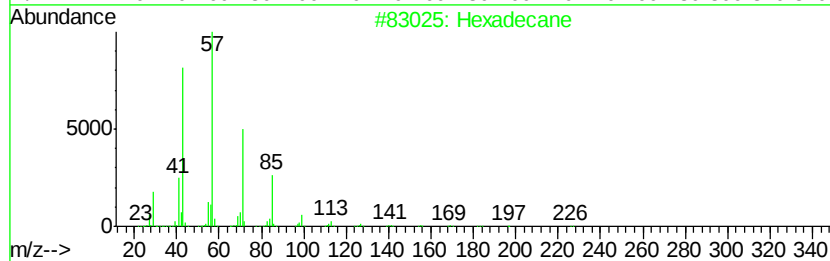
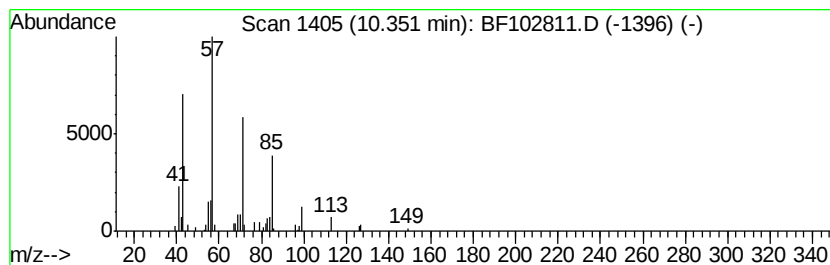
Instrument :  
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Peak Number 5 Hexadecane Concentration Rank 6

| R.T.    | EstConc                             | Area          | Relative to ISTD | R.T.      |
|---------|-------------------------------------|---------------|------------------|-----------|
| 10.35   | 2.39 ng                             | 208690        | Acenaphthene-d10 | 9.92      |
| Hit# of | 5                                   | Tentative ID  | MW MolForm       | CAS# Qual |
| 1       | Hexadecane                          | 226 C16H34    | 000544-76-3      | 90        |
| 2       | Tetracosane                         | 338 C24H50    | 000646-31-1      | 90        |
| 3       | Sulfurous acid, 2-ethylhexyl hex... | 278 C14H30O3S | 1000309-20-2     | 80        |
| 4       | Pentadecane                         | 212 C15H32    | 000629-62-9      | 78        |
| 5       | Sulfurous acid, pentadecyl 2-pro... | 334 C18H38O3S | 1000309-12-6     | 72        |



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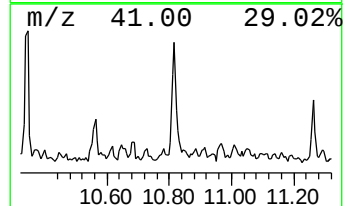
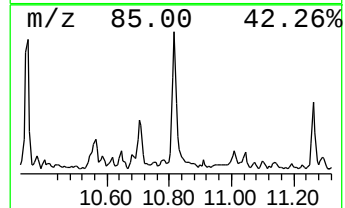
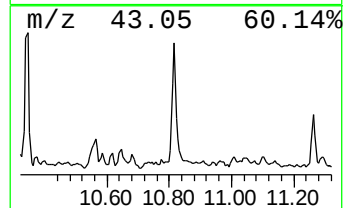
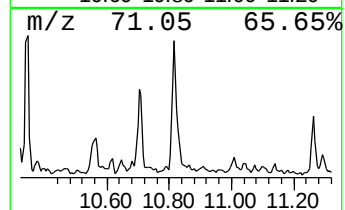
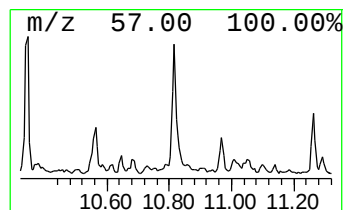
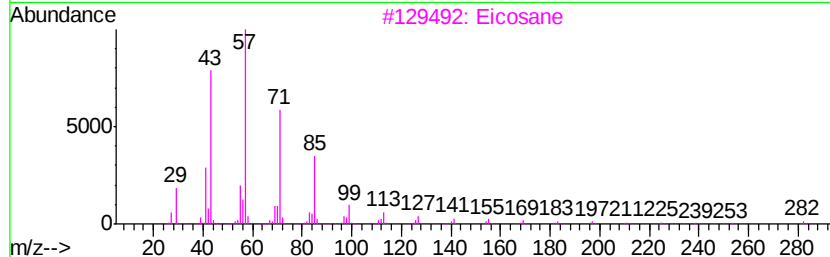
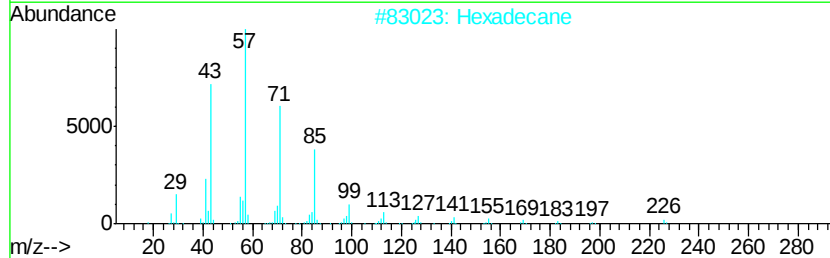
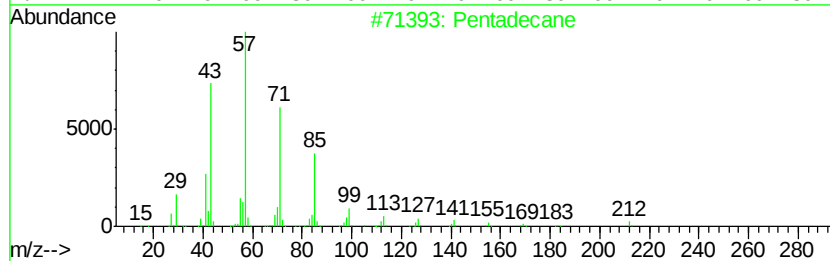
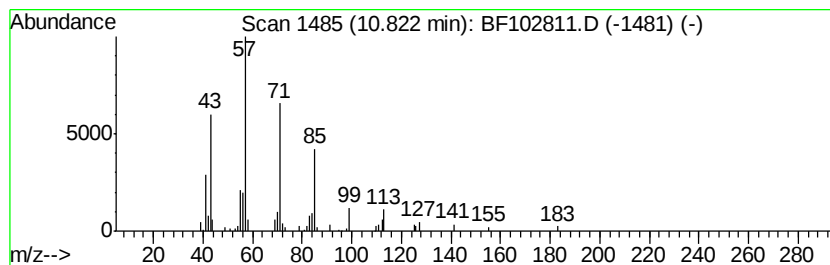
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 6 Pentadecane Concentration Rank 7

| R.T.  | EstConc | Area   | Relative to ISTD | R.T.  |
|-------|---------|--------|------------------|-------|
| 10.82 | 2.12 ng | 177996 | Phenanthrene-d10 | 11.40 |

| Hit# of | 5                            | Tentative ID | MW  | MolForm | CAS#        | Qual |
|---------|------------------------------|--------------|-----|---------|-------------|------|
| 1       | Pentadecane                  |              | 212 | C15H32  | 000629-62-9 | 90   |
| 2       | Hexadecane                   |              | 226 | C16H34  | 000544-76-3 | 90   |
| 3       | Eicosane                     |              | 282 | C20H42  | 000112-95-8 | 90   |
| 4       | Dodecane, 2-methyl-6-propyl- |              | 226 | C16H34  | 055045-08-4 | 86   |
| 5       | Tridecane                    |              | 184 | C13H28  | 000629-50-5 | 86   |



Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF020718\  
Data File : BF102811.D  
Acq On : 7 Feb 2018 13:20  
Operator : SJ/JU  
Sample : J1458-01  
Misc :  
ALS Vial : 7 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
SB-01

Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF020318.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

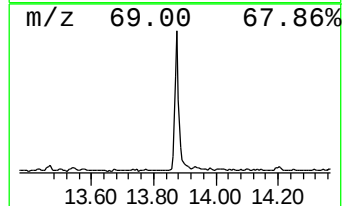
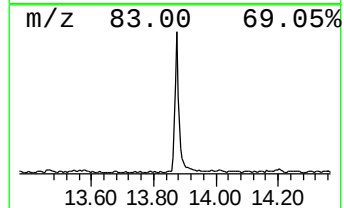
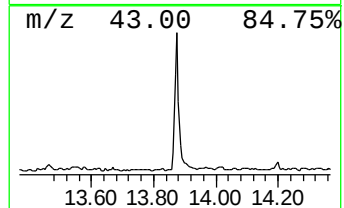
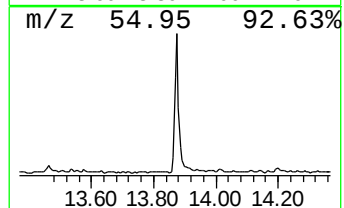
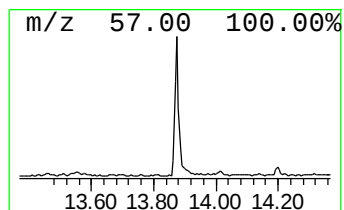
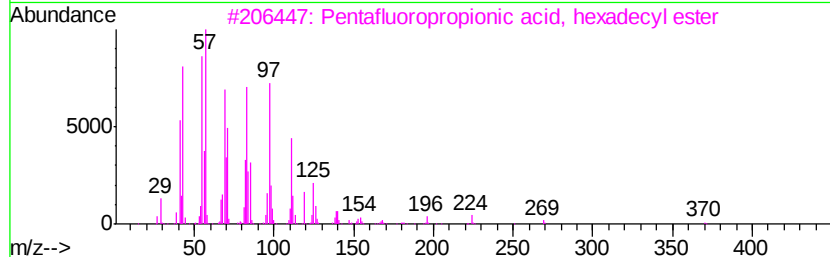
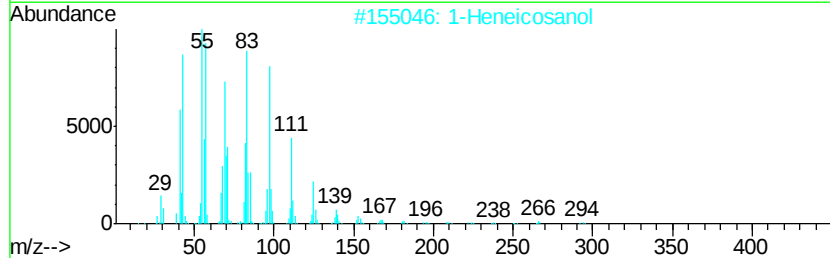
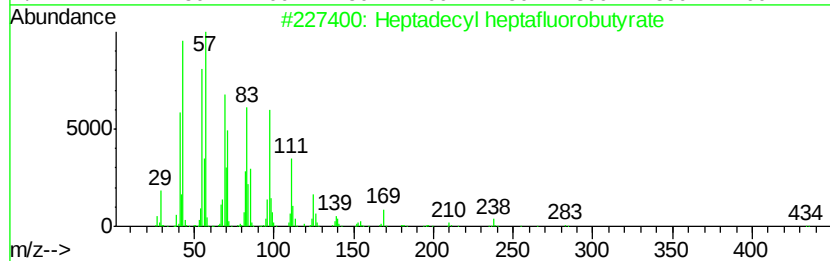
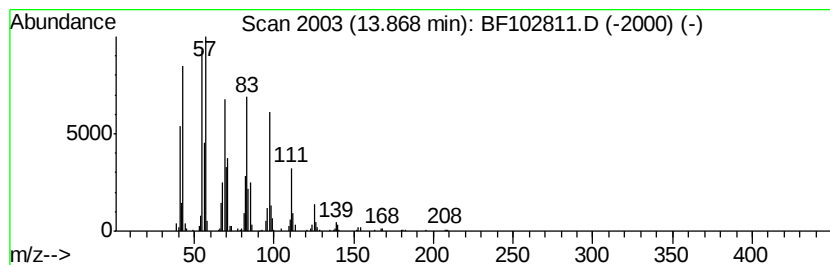
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 7 Heptadecyl heptafluorobutyrate Concentration Rank 4

| R.T.  | EstConc | Area   | Relative to ISTD | R.T.  |
|-------|---------|--------|------------------|-------|
| 13.87 | 8.81 ng | 644244 | Chrysene-d12     | 14.04 |

| Hit# | of | 5 | Tentative ID                               | MW  | MolForm    | CAS#        | Qual |
|------|----|---|--------------------------------------------|-----|------------|-------------|------|
| 1    |    |   | Heptadecyl heptafluorobutyrate             | 452 | C21H35F7O2 | 959085-66-6 | 95   |
| 2    |    |   | 1-Heneicosanol                             | 312 | C21H44O    | 015594-90-8 | 95   |
| 3    |    |   | Pentafluoropropionic acid, hexadecyl ester | 388 | C19H33F5O2 | 006222-07-7 | 94   |
| 4    |    |   | Heptafluorobutyric acid, pentadecyl ester  | 424 | C19H31F7O2 | 959261-23-5 | 91   |
| 5    |    |   | n-Nonadecanol-1                            | 284 | C19H40O    | 001454-84-8 | 91   |



Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF020718\  
Data File : BF102811.D  
Acq On : 7 Feb 2018 13:20  
Operator : SJ/JU  
Sample : J1458-01  
Misc :  
ALS Vial : 7 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
SB-01

Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF020318.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT 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... | 2.19  | 11.7    | ng    | 694606   | 1                     | 6.88  | 1185990 | 20.0 |
| 2-Pentanone, 4-hy... | 5.12  | 4.1     | ng    | 241194   | 1                     | 6.88  | 1185990 | 20.0 |
| unknown6.65          | 6.65  | 77.7    | ng    | 4607200  | 1                     | 6.88  | 1185990 | 20.0 |
| Hexadecane           | 10.35 | 2.4     | ng    | 208690   | 3                     | 9.92  | 1749410 | 20.0 |
| Pentadecane          | 10.82 | 2.1     | ng    | 177996   | 4                     | 11.40 | 1680170 | 20.0 |
| Heptadecyl heptaf... | 13.87 | 8.8     | ng    | 644244   | 5                     | 14.04 | 1462610 | 20.0 |