

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF091818\  
 Data File : BF109099.D  
 Acq On : 18 Sep 2018 16:53  
 Operator : JU/SJ  
 Sample : J4936-31 5X  
 Misc :  
 ALS Vial : 9 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 PHASE-3

Integration Parameters: rteint.p  
 Integrator: RTE  
 Smoothing : ON Filtering: 5  
 Sampling : 1 Min Area: 3 % of largest Peak  
 Start Thrs: 0.2 Max Peaks: 100  
 Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >  
 Peak separation: 5

Method : Z:\SVOASRV\HPCHEM1\BNA\_F\METHODS\8270-BF091418.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         | 4.407       | 347           | 352         | 357          | rBV      | 138618         | 154611        | 15.79%          | 1.811%        |
| 2         | 5.325       | 505           | 508         | 517          | rVB      | 424718         | 370714        | 37.86%          | 4.343%        |
| 3         | 6.348       | 679           | 682         | 690          | rVB      | 492464         | 415803        | 42.46%          | 4.871%        |
| 4         | 6.490       | 703           | 706         | 710          | rBV      | 563376         | 433285        | 44.25%          | 5.076%        |
| 5         | 6.725       | 743           | 746         | 750          | rBV      | 1006202        | 762375        | 77.85%          | 8.931%        |
| 6         | 6.884       | 769           | 773         | 776          | rBV      | 421216         | 375091        | 38.30%          | 4.394%        |
| 7         | 7.278       | 837           | 840         | 848          | rVB      | 374477         | 300070        | 30.64%          | 3.515%        |
| 8         | 8.007       | 960           | 964         | 967          | rBV      | 1178360        | 978311        | 99.90%          | 11.461%       |
| 9         | 9.083       | 1143          | 1147        | 1150         | rBV      | 540953         | 436512        | 44.57%          | 5.114%        |
| 10        | 9.472       | 1211          | 1213        | 1216         | rBV      | 71723          | 58052         | 5.93%           | 0.680%        |
| 11        | 9.760       | 1258          | 1262        | 1265         | rBV      | 1169445        | 979283        | 100.00%         | 11.472%       |
| 12        | 10.542      | 1391          | 1395        | 1400         | rBV      | 214280         | 209654        | 21.41%          | 2.456%        |
| 13        | 11.236      | 1509          | 1513        | 1516         | rBV      | 1045756        | 865844        | 88.42%          | 10.144%       |
| 14        | 11.260      | 1516          | 1517        | 1521         | rVB      | 107114         | 56047         | 5.72%           | 0.657%        |
| 15        | 11.313      | 1523          | 1526        | 1527         | rBV      | 30971          | 30703         | 3.14%           | 0.360%        |
| 16        | 12.442      | 1716          | 1718        | 1721         | rBV      | 165027         | 123914        | 12.65%          | 1.452%        |
| 17        | 12.671      | 1754          | 1757        | 1759         | rVB      | 218671         | 209354        | 21.38%          | 2.453%        |
| 18        | 12.819      | 1779          | 1782        | 1787         | rBV      | 296902         | 333673        | 34.07%          | 3.909%        |
| 19        | 12.913      | 1796          | 1798        | 1800         | rBV2     | 154532         | 165545        | 16.90%          | 1.939%        |
| 20        | 13.501      | 1896          | 1898        | 1900         | rBV2     | 358846         | 395626        | 40.40%          | 4.635%        |
| 21        | 13.866      | 1957          | 1960        | 1963         | rVB      | 852749         | 881460        | 90.01%          | 10.326%       |

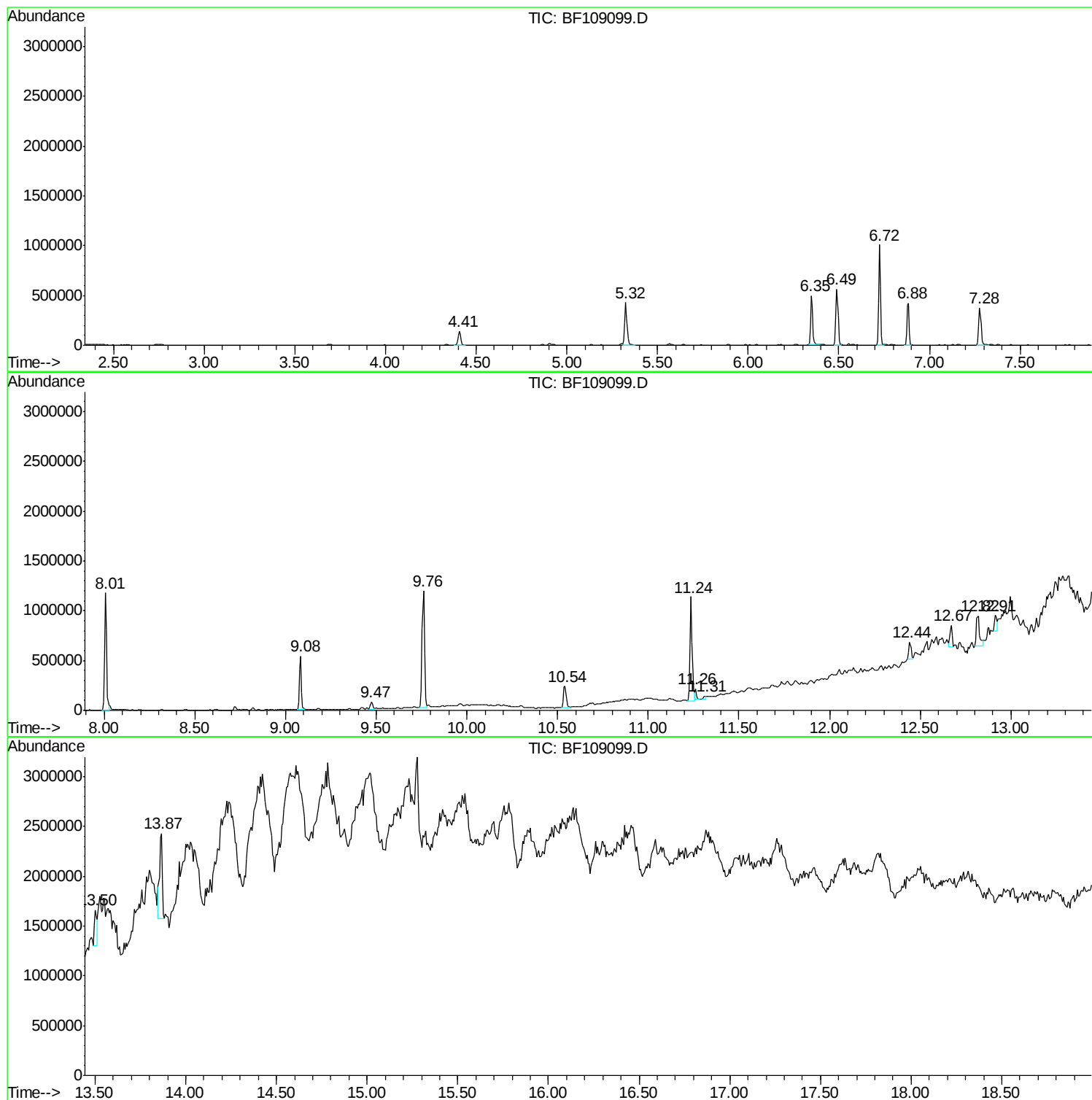
Sum of corrected areas: 8535927

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF091818\  
Data File : BF109099.D  
Acq On : 18 Sep 2018 16:53  
Operator : JU/SJ  
Sample : J4936-31 5X  
Misc :  
ALS Vial : 9 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
PHASE-3

Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF091418.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF091818\  
Data File : BF109099.D  
Acq On : 18 Sep 2018 16:53  
Operator : JU/SJ  
Sample : J4936-31 5X  
Misc :  
ALS Vial : 9 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
PHASE-3

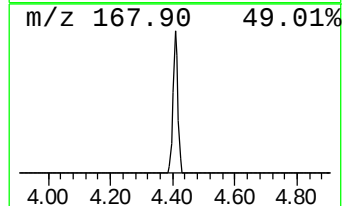
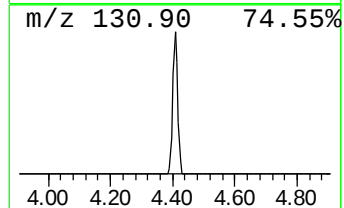
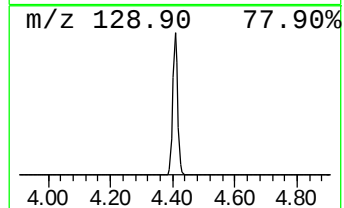
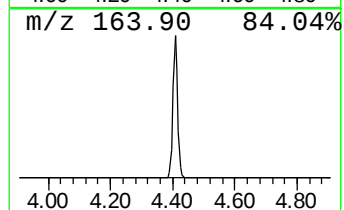
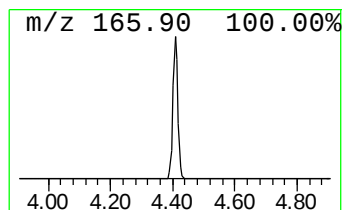
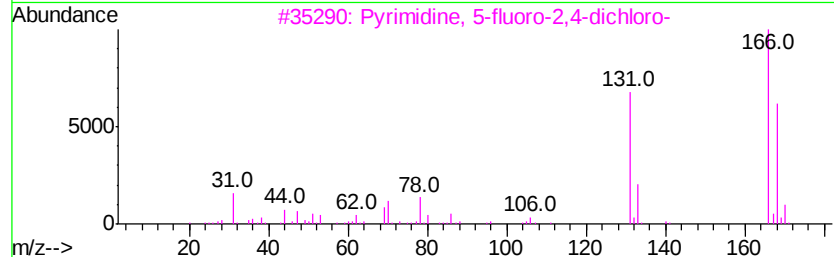
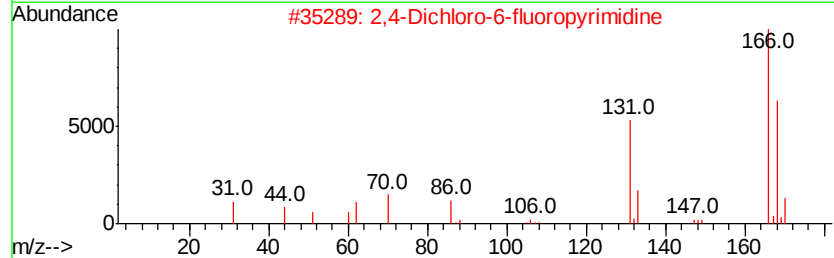
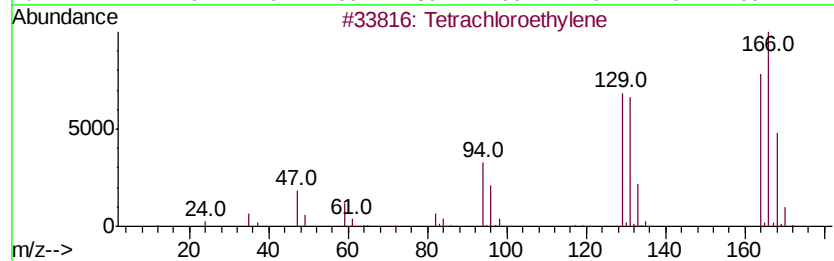
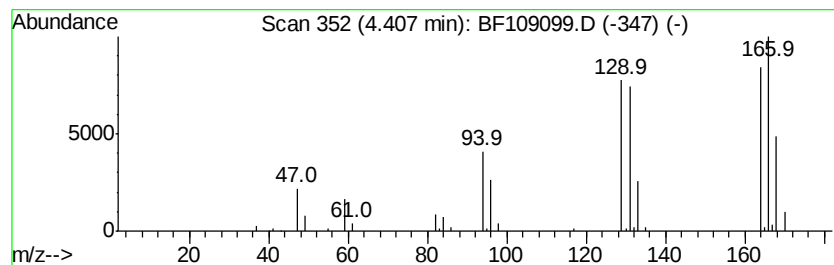
Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF091418.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

\*\*\*\*\*  
Peak Number 1 Tetrachloroethylene Concentration Rank 4

| R.T. | EstConc | Area   | Relative to ISTD       | R.T. |
|------|---------|--------|------------------------|------|
| 4.41 | 4.06 ng | 154611 | 1,4-Dichlorobenzene-d4 | 6.72 |

| Hit# | of | 5 | Tentative ID                       | MW  | MolForm   | CAS#        | Qual |
|------|----|---|------------------------------------|-----|-----------|-------------|------|
| 1    |    |   | Tetrachloroethylene                | 164 | C2Cl4     | 000127-18-4 | 98   |
| 2    |    |   | 2,4-Dichloro-6-fluoropyrimidine    | 166 | C4HCl2FN2 | 003833-57-6 | 22   |
| 3    |    |   | Pyrimidine, 5-fluoro-2,4-dichloro- | 166 | C4HCl2FN2 | 002927-71-1 | 16   |
| 4    |    |   | 2-Chloroquinoxaline                | 164 | C8H5ClN2  | 001448-87-9 | 12   |
| 5    |    |   | Thioxan-3-one, oxime               | 131 | C5H9NOS   | 058230-51-6 | 10   |



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF091818\  
Data File : BF109099.D  
Acq On : 18 Sep 2018 16:53  
Operator : JU/SJ  
Sample : J4936-31 5X  
Misc :  
ALS Vial : 9 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
PHASE-3

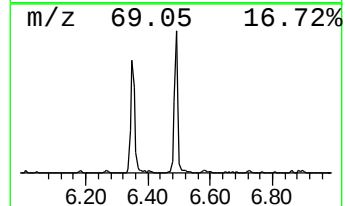
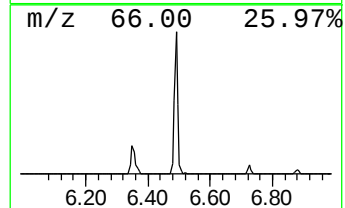
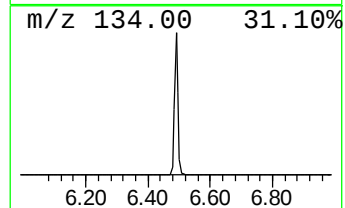
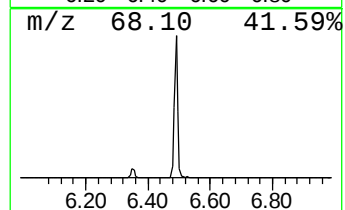
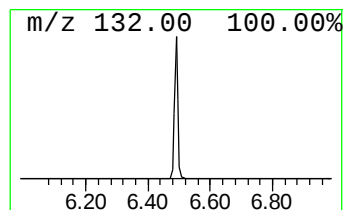
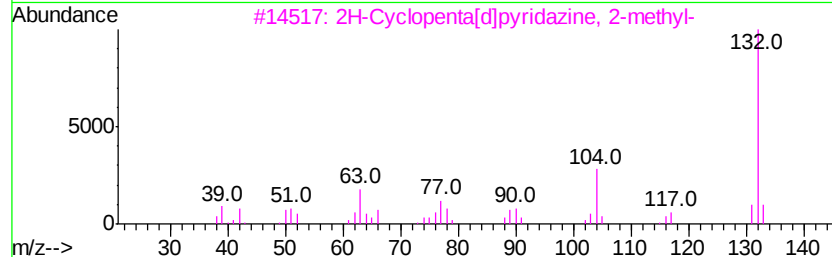
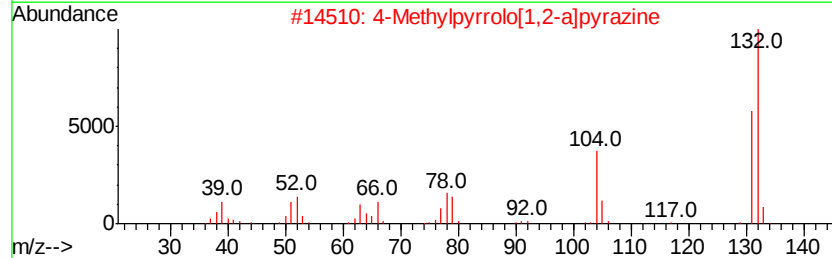
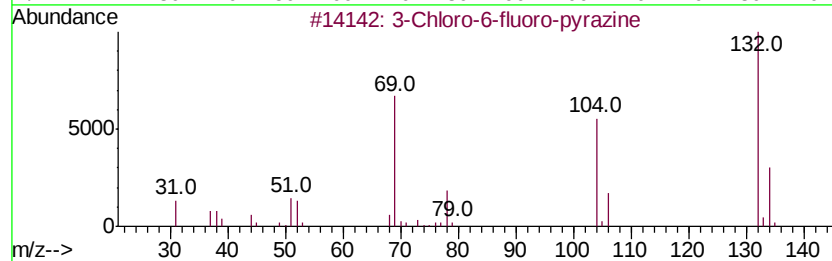
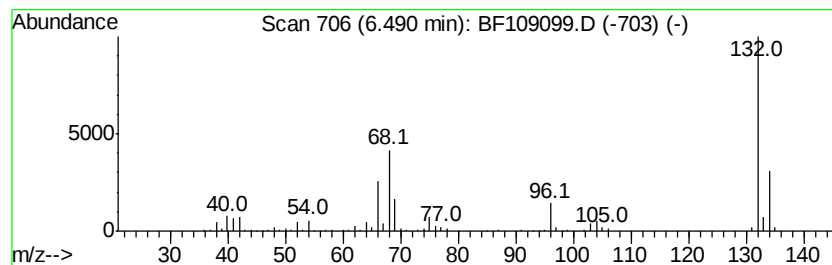
Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF091418.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

\*\*\*\*\*  
Peak Number 2 unknown6.49 Concentration Rank 1

| R.T. | EstConc  | Area   | Relative to ISTD       | R.T. |
|------|----------|--------|------------------------|------|
| 6.49 | 11.37 ng | 433285 | 1,4-Dichlorobenzene-d4 | 6.72 |

| Hit# | of | 5 | Tentative ID                        | MW  | MolForm   | CAS#         | Qual |
|------|----|---|-------------------------------------|-----|-----------|--------------|------|
| 1    |    |   | 3-Chloro-6-fluoro-pyrazine          | 132 | C4H2ClFN2 | 1000146-10-7 | 16   |
| 2    |    |   | 4-Methylpyrrolo[1,2-a]pyrazine      | 132 | C8H8N2    | 064608-60-2  | 9    |
| 3    |    |   | 2H-Cyclopenta[d]pyridazine, 2-me... | 132 | C8H8N2    | 022291-85-6  | 9    |
| 4    |    |   | 5-Fluoro-2-chloropyrimidine         | 132 | C4H2ClFN2 | 062802-42-0  | 9    |
| 5    |    |   | Imidazole, 4,5-dicyano-1-methyl-    | 132 | C6H4N4    | 019485-35-9  | 9    |



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF091818\  
Data File : BF109099.D  
Acq On : 18 Sep 2018 16:53  
Operator : JU/SJ  
Sample : J4936-31 5X  
Misc :  
ALS Vial : 9 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
PHASE-3

Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF091418.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

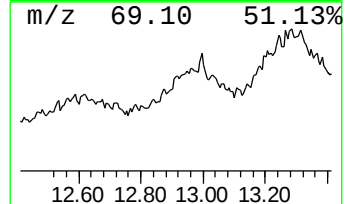
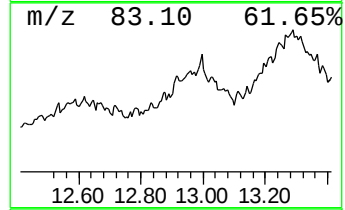
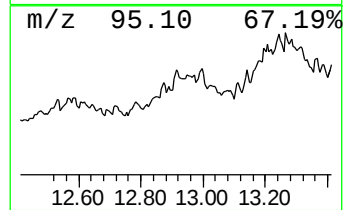
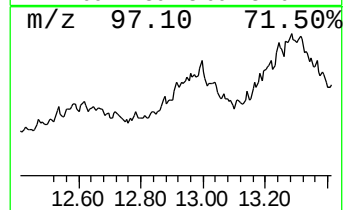
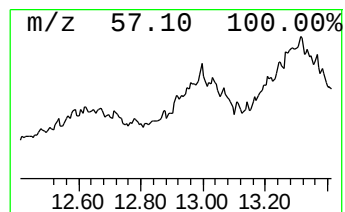
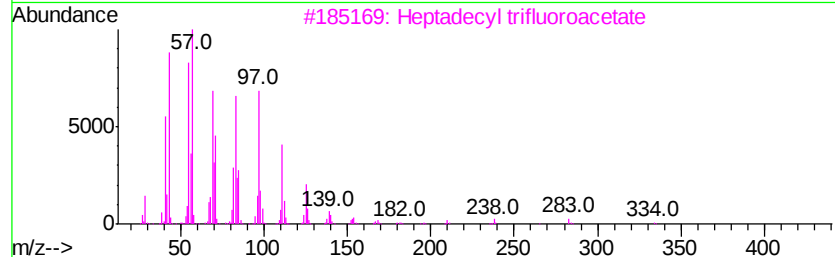
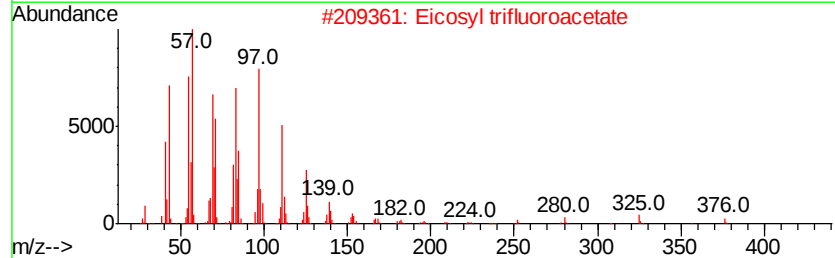
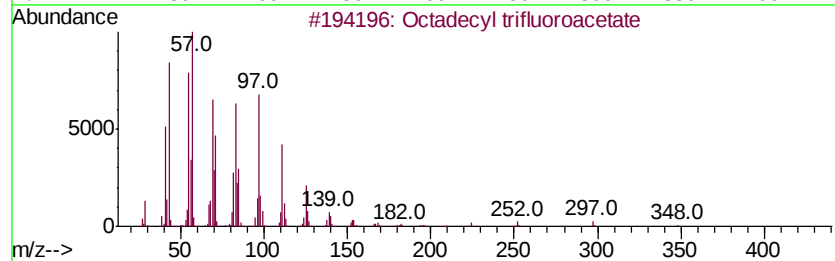
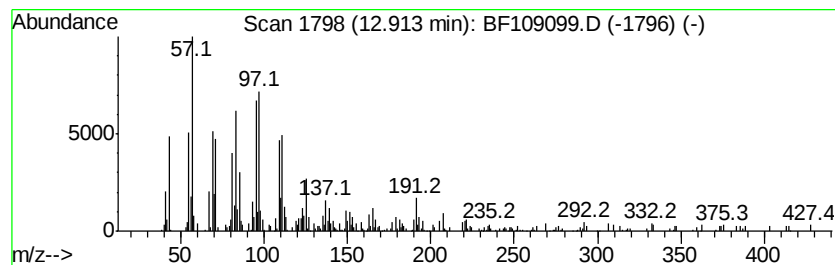
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 4 Octadecyl trifluoroacetate Concentration Rank 5

| R.T.  | EstConc | Area   | Relative to ISTD | R.T.  |
|-------|---------|--------|------------------|-------|
| 12.91 | 3.76 ng | 165545 | Chrysene-d12     | 13.87 |

| Hit# of | 5 | Tentative ID                        | MW  | MolForm    | CAS#         | Qual |
|---------|---|-------------------------------------|-----|------------|--------------|------|
| 1       |   | Octadecyl trifluoroacetate          | 366 | C20H37F3O2 | 079392-43-1  | 62   |
| 2       |   | Eicosyl trifluoroacetate            | 394 | C22H41F3O2 | 1000351-75-2 | 58   |
| 3       |   | Heptadecyl trifluoroacetate         | 352 | C19H35F3O2 | 1000351-87-0 | 53   |
| 4       |   | Heptafluorobutyric acid, hexadec... | 438 | C20H33F7O2 | 006385-15-5  | 50   |
| 5       |   | Fumaric acid, hexadecyl 2-methyl... | 394 | C24H42O4   | 1000330-55-5 | 47   |



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF091818\  
Data File : BF109099.D  
Acq On : 18 Sep 2018 16:53  
Operator : JU/SJ  
Sample : J4936-31 5X  
Misc :  
ALS Vial : 9 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
PHASE-3

Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF091418.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

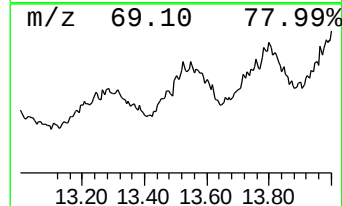
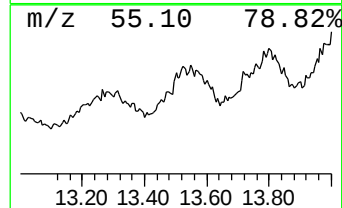
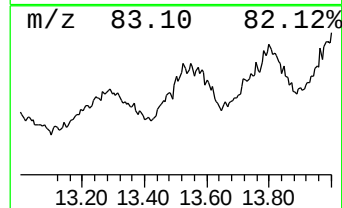
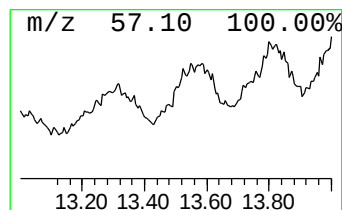
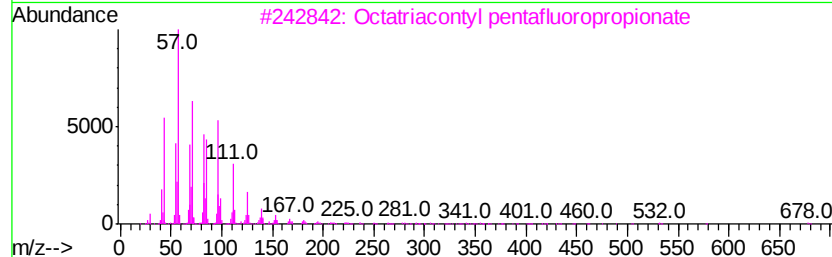
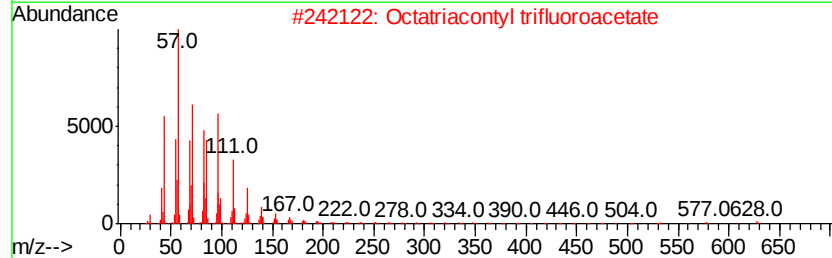
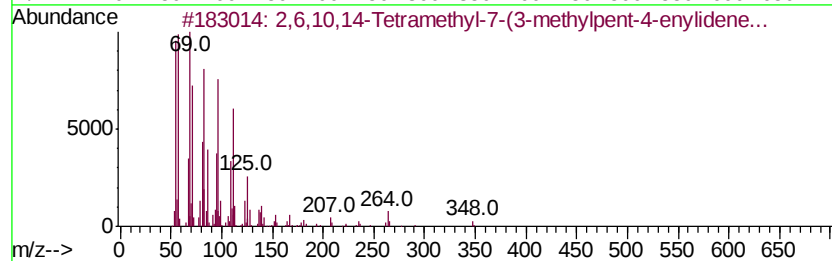
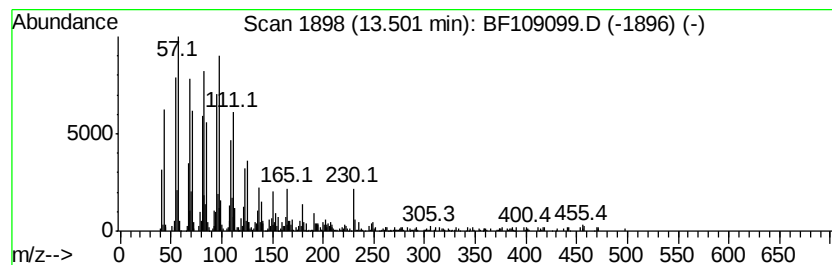
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 5 2,6,10,14-Tetramethyl-7-(3-... Concentration Rank 3

| R.T.  | EstConc | Area   | Relative to ISTD | R.T.  |
|-------|---------|--------|------------------|-------|
| 13.50 | 8.98 ng | 395626 | Chrysene-d12     | 13.87 |

| Hit# | of | Tentative ID                        | MW  | MolForm    | CAS#         | Qual |
|------|----|-------------------------------------|-----|------------|--------------|------|
| 1    | 5  | 2,6,10,14-Tetramethyl-7-(3-methy... | 348 | C25H48     | 1000370-41-6 | 70   |
| 2    |    | Octatriacontyl trifluoroacetate     | 647 | C40H77F3O2 | 1000351-88-7 | 35   |
| 3    |    | Octatriacontyl pentafluoropropio... | 697 | C41H77F5O2 | 1000351-89-1 | 35   |
| 4    |    | Octane, 1,8-dibromo-                | 270 | C8H16Br2   | 004549-32-0  | 25   |
| 5    |    | Tetracosane, 1-bromo-               | 416 | C24H49Br   | 006946-24-3  | 25   |



Data Path : Z:\SVOASRV\HPCHEM1\BNA\_F\DATA\BF091818\  
Data File : BF109099.D  
Acq On : 18 Sep 2018 16:53  
Operator : JU/SJ  
Sample : J4936-31 5X  
Misc :  
ALS Vial : 9 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
PHASE-3

Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_F\METHODS\8270-BF091418.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 |
| Tetrachloroethylene  | 4.41  | 4.1     | ng    | 154611   | 1                     | 6.72  | 762375 | 20.0 |
| unknown6.49          | 6.49  | 11.4    | ng    | 433285   | 1                     | 6.72  | 762375 | 20.0 |
| Octadecyl trifluo... | 12.91 | 3.8     | ng    | 165545   | 5                     | 13.87 | 881460 | 20.0 |
| 2,6,10,14-Tetrame... | 13.50 | 9.0     | ng    | 395626   | 5                     | 13.87 | 881460 | 20.0 |