

Data Path : Z:\SVOASRV\HPCHEM1\BNA\_F\DATA\BF022719\  
 Data File : BF112743.D  
 Acq On : 28 Feb 2019 2:40  
 Operator : JU/SJ  
 Sample : K1596-02  
 Misc :  
 ALS Vial : 26 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 COMP-14

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:\SVOASRV\HPCHEM1\BNA\_F\METHODS\8270-BF022719.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         | 4.934       | 481           | 484         | 493          | rVB      | 56640          | 67870         | 1.67%           | 0.171%        |
| 2         | 5.345       | 549           | 554         | 558          | rBV      | 3672167        | 3918088       | 96.19%          | 9.854%        |
| 3         | 6.375       | 724           | 729         | 735          | rBV      | 4128916        | 4073385       | 100.00%         | 10.245%       |
| 4         | 6.510       | 748           | 752         | 755          | rBV      | 4281367        | 3993847       | 98.05%          | 10.045%       |
| 5         | 6.745       | 788           | 792         | 795          | rBV      | 1229025        | 1112754       | 27.32%          | 2.799%        |
| 6         | 6.898       | 814           | 818         | 822          | rBV      | 3367219        | 2915793       | 71.58%          | 7.333%        |
| 7         | 7.298       | 882           | 886         | 889          | rBV      | 2650417        | 2374556       | 58.29%          | 5.972%        |
| 8         | 8.022       | 1006          | 1009        | 1012         | rBV      | 1612243        | 1305254       | 32.04%          | 3.283%        |
| 9         | 9.098       | 1188          | 1192        | 1195         | rBV      | 4329020        | 3440401       | 84.46%          | 8.653%        |
| 10        | 9.192       | 1205          | 1208        | 1211         | rBV2     | 65683          | 61436         | 1.51%           | 0.155%        |
| 11        | 9.486       | 1255          | 1258        | 1261         | rBV      | 315258         | 265014        | 6.51%           | 0.667%        |
| 12        | 9.633       | 1280          | 1283        | 1288         | rBV      | 103966         | 106423        | 2.61%           | 0.268%        |
| 13        | 9.769       | 1303          | 1306        | 1310         | rBV      | 1461351        | 1345721       | 33.04%          | 3.385%        |
| 14        | 9.974       | 1338          | 1341        | 1345         | rVB2     | 67826          | 59914         | 1.47%           | 0.151%        |
| 15        | 10.439      | 1416          | 1420        | 1423         | rBV4     | 37845          | 46307         | 1.14%           | 0.116%        |
| 16        | 10.557      | 1436          | 1440        | 1443         | rBV      | 2603220        | 2466611       | 60.55%          | 6.204%        |
| 17        | 10.686      | 1460          | 1462        | 1470         | rVB3     | 75615          | 129729        | 3.18%           | 0.326%        |
| 18        | 10.774      | 1474          | 1477        | 1481         | rVB3     | 52923          | 56219         | 1.38%           | 0.141%        |
| 19        | 10.921      | 1499          | 1502        | 1505         | rBV2     | 74110          | 78283         | 1.92%           | 0.197%        |
| 20        | 11.121      | 1530          | 1536        | 1537         | rBV5     | 42547          | 77136         | 1.89%           | 0.194%        |
| 21        | 11.139      | 1537          | 1539        | 1542         | rVV2     | 81905          | 89973         | 2.21%           | 0.226%        |
| 22        | 11.169      | 1542          | 1544        | 1547         | rVB      | 62323          | 54215         | 1.33%           | 0.136%        |
| 23        | 11.251      | 1554          | 1558        | 1560         | rBV      | 1522766        | 1481031       | 36.36%          | 3.725%        |
| 24        | 11.269      | 1560          | 1561        | 1565         | rVB      | 575539         | 398566        | 9.78%           | 1.002%        |
| 25        | 11.321      | 1565          | 1570        | 1573         | rBV2     | 230899         | 228276        | 5.60%           | 0.574%        |
| 26        | 11.351      | 1573          | 1575        | 1579         | rBV3     | 33198          | 43736         | 1.07%           | 0.110%        |
| 27        | 11.474      | 1593          | 1596        | 1600         | rVB      | 56288          | 56933         | 1.40%           | 0.143%        |
| 28        | 11.751      | 1641          | 1643        | 1645         | rBV      | 75465          | 54106         | 1.33%           | 0.136%        |
| 29        | 11.786      | 1645          | 1649        | 1653         | rBV2     | 413220         | 496400        | 12.19%          | 1.248%        |
| 30        | 11.821      | 1653          | 1655        | 1658         | rVB2     | 102792         | 92392         | 2.27%           | 0.232%        |
| 31        | 11.857      | 1658          | 1661        | 1664         | rBV      | 172903         | 181343        | 4.45%           | 0.456%        |
| 32        | 11.880      | 1664          | 1665        | 1668         | rVB      | 83351          | 51837         | 1.27%           | 0.130%        |
| 33        | 12.039      | 1690          | 1692        | 1694         | rBV      | 67801          | 65786         | 1.62%           | 0.165%        |
| 34        | 12.298      | 1733          | 1736        | 1739         | rBV2     | 162277         | 137749        | 3.38%           | 0.346%        |

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Sample : K1596-02  
Misc :  
ALS Vial : 26 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
COMP-14

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-BF022719.M  
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

|    |        |      |      |      |      |         |         |        |        |
|----|--------|------|------|------|------|---------|---------|--------|--------|
| 35 | 12.457 | 1759 | 1763 | 1766 | rBV  | 946979  | 854473  | 20.98% | 2.149% |
| 36 | 12.568 | 1780 | 1782 | 1787 | rBV4 | 143191  | 188588  | 4.63%  | 0.474% |
| 37 | 12.680 | 1796 | 1801 | 1804 | rBV  | 890232  | 896351  | 22.01% | 2.254% |
| 38 | 12.833 | 1823 | 1827 | 1830 | rBV  | 3712558 | 3320032 | 81.51% | 8.350% |
| 39 | 13.074 | 1866 | 1868 | 1872 | rVB2 | 122705  | 114024  | 2.80%  | 0.287% |
| 40 | 13.115 | 1872 | 1875 | 1879 | rBV2 | 130530  | 187402  | 4.60%  | 0.471% |
| 41 | 13.733 | 1978 | 1980 | 1987 | rVB4 | 289458  | 376571  | 9.24%  | 0.947% |
| 42 | 13.874 | 2000 | 2004 | 2007 | rBV2 | 1535800 | 1663619 | 40.84% | 4.184% |
| 43 | 13.898 | 2007 | 2008 | 2013 | rVB  | 338020  | 205088  | 5.03%  | 0.516% |
| 44 | 15.292 | 2242 | 2245 | 2248 | rVB  | 572917  | 627421  | 15.40% | 1.578% |

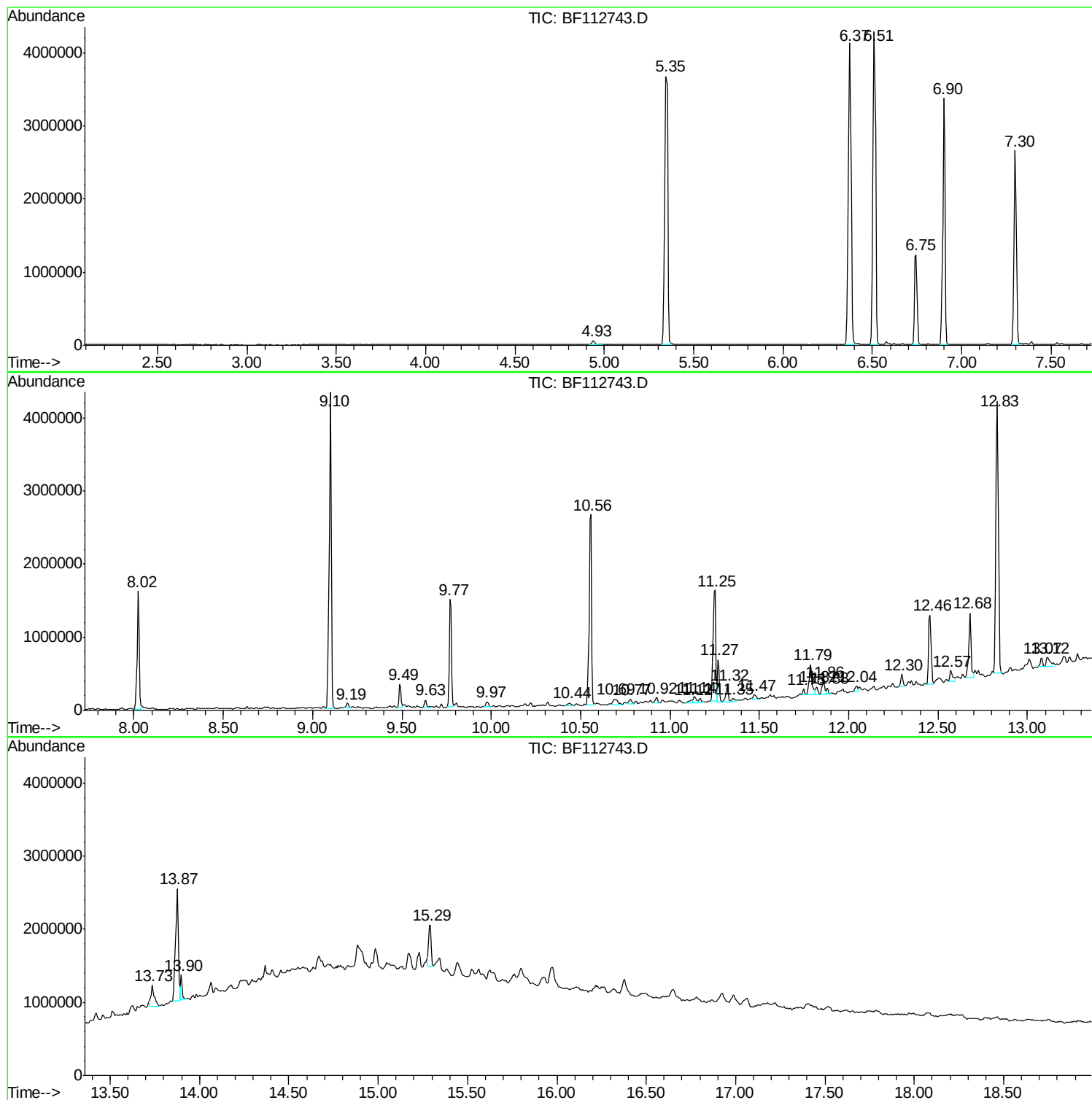
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Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_F\METHODS\8270-BF022719.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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



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Sample : K1596-02  
Misc :  
ALS Vial : 26 Sample Multiplier: 1

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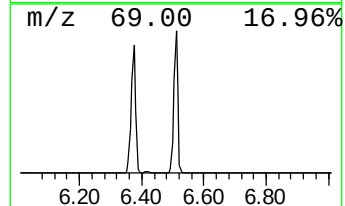
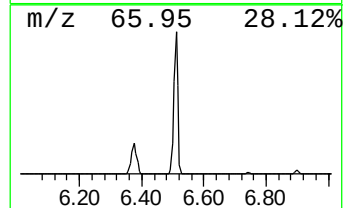
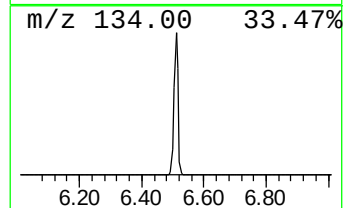
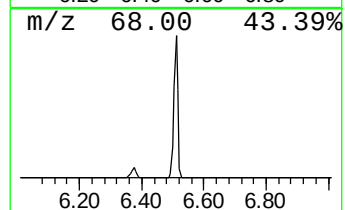
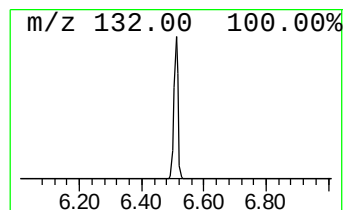
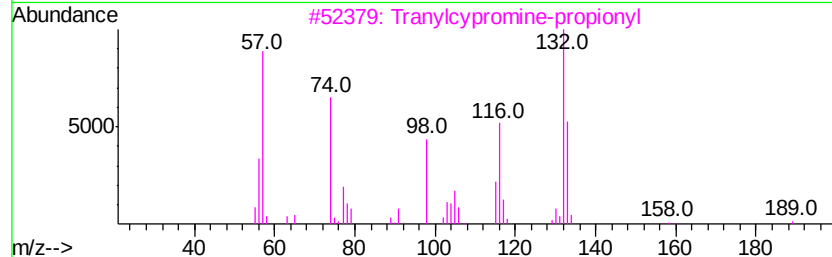
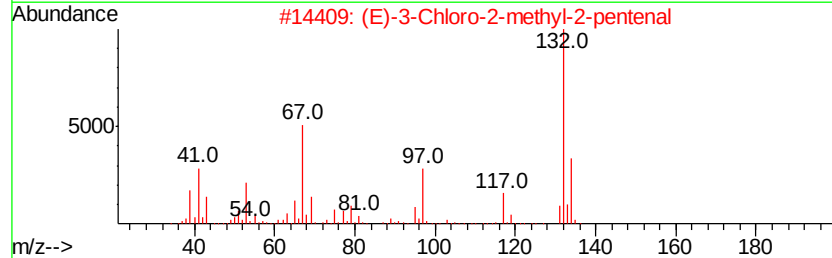
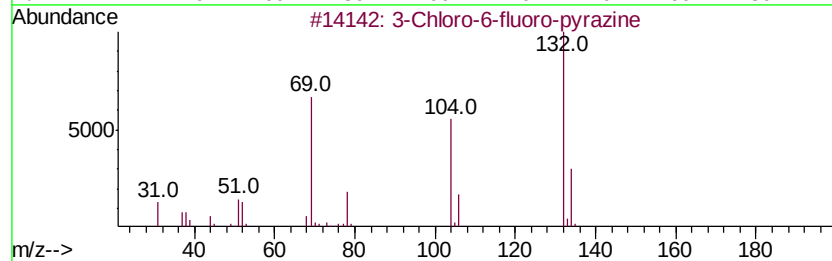
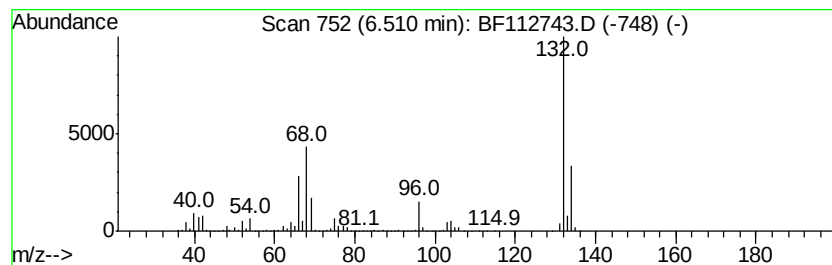
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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Peak Number 1 unknown6.51 Concentration Rank 1

| R.T. | EstConc  | Area    | Relative to ISTD       | R.T. |
|------|----------|---------|------------------------|------|
| 6.51 | 71.78 ng | 3993850 | 1,4-Dichlorobenzene-d4 | 6.75 |

| 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  | 12   |
| 3    |    | Tranvlcypropine-propionyl           | 189 | C12H15NO  | 1000123-86-3 | 12   |
| 4    |    | Bicyclo[4.2.0]octa-1,3,5-triene,... | 132 | C10H12    | 028749-81-7  | 9    |
| 5    |    | 4-Methylpyrrolo[1,2-a]pyrazine      | 132 | C8H8N2    | 064608-60-2  | 9    |



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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

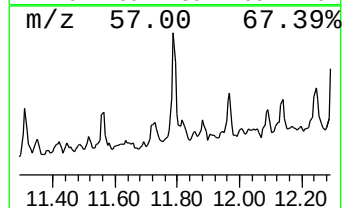
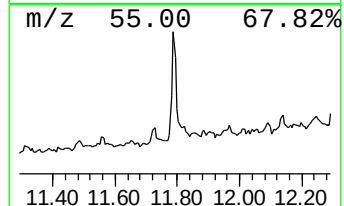
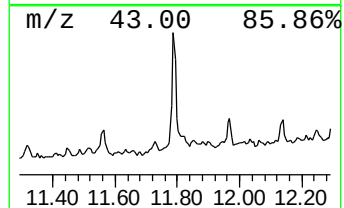
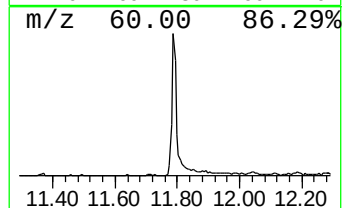
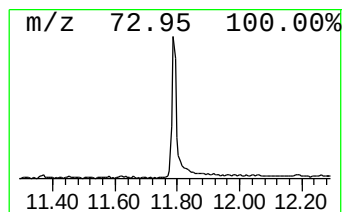
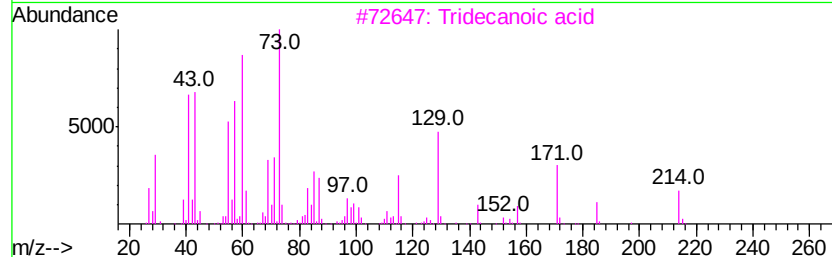
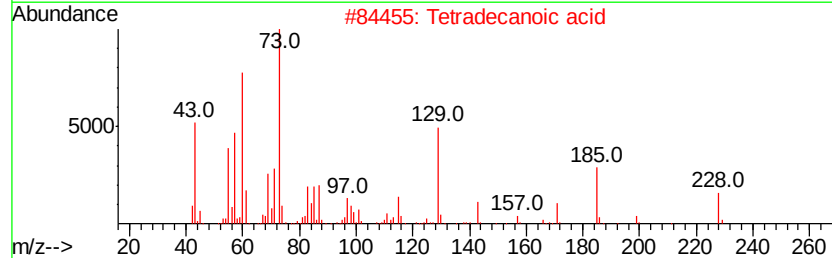
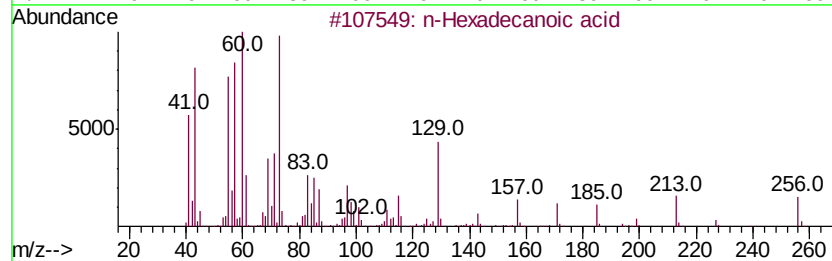
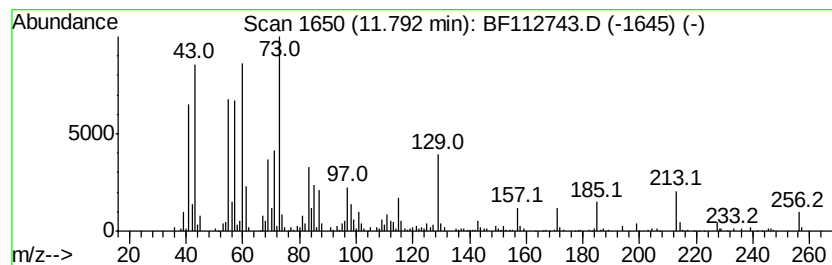
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 3 n-Hexadecanoic acid Concentration Rank 3

| R.T.  | EstConc | Area   | Relative to ISTD | R.T.  |
|-------|---------|--------|------------------|-------|
| 11.79 | 6.70 ng | 496400 | Phenanthrene-d10 | 11.25 |

| Hit# of | 5 | Tentative ID                       | MW  | MolForm  | CAS#         | Qual |
|---------|---|------------------------------------|-----|----------|--------------|------|
| 1       |   | n-Hexadecanoic acid                | 256 | C16H32O2 | 000057-10-3  | 99   |
| 2       |   | Tetradecanoic acid                 | 228 | C14H28O2 | 000544-63-8  | 91   |
| 3       |   | Tridecanoic acid                   | 214 | C13H26O2 | 000638-53-9  | 91   |
| 4       |   | Pentadecanoic acid                 | 242 | C15H30O2 | 001002-84-2  | 90   |
| 5       |   | Oxalic acid, allyl hexadecyl ester | 354 | C21H38O4 | 1000309-24-4 | 35   |



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ALS Vial : 26 Sample Multiplier: 1

Instrument :  
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ClientSampleId :  
COMP-14

Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF022719.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

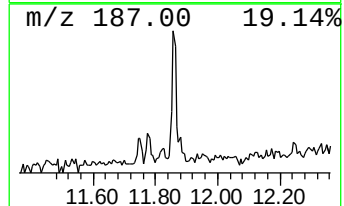
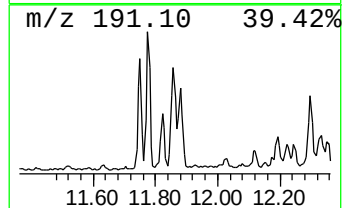
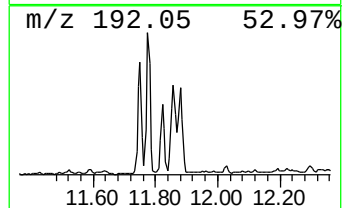
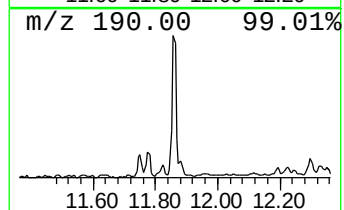
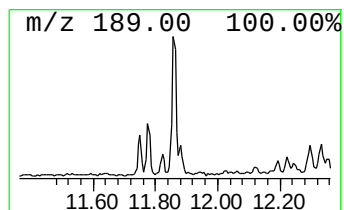
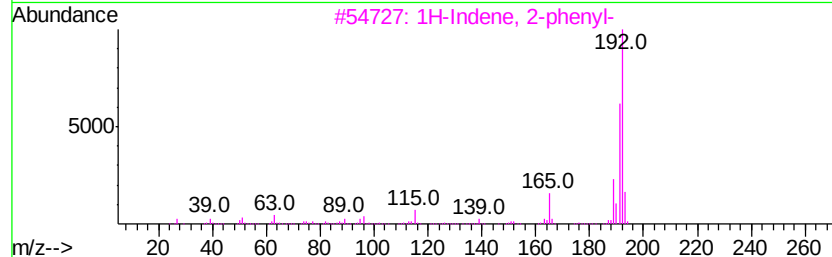
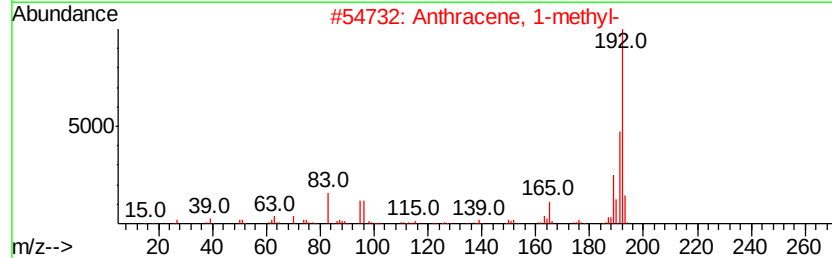
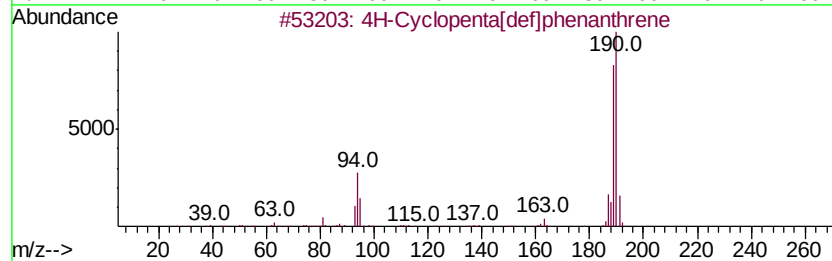
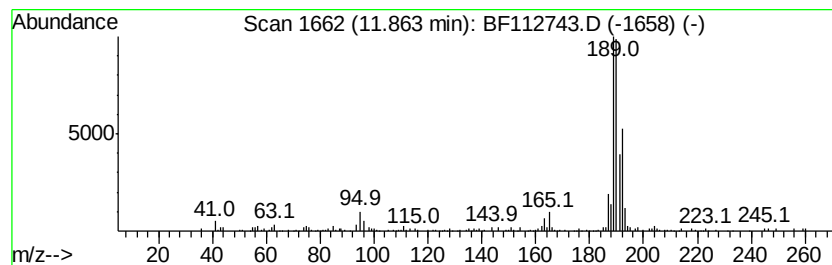
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 4 4H-Cyclopenta[def]phenanthrene Concentration Rank 5

| R.T.  | EstConc | Area   | Relative to ISTD | R.T.  |
|-------|---------|--------|------------------|-------|
| 11.86 | 2.45 ng | 181343 | Phenanthrene-d10 | 11.25 |

| Hit# | of | Tentative ID                   | MW  | MolForm | CAS#        | Qual |
|------|----|--------------------------------|-----|---------|-------------|------|
| 1    | 5  | 4H-Cyclopenta[def]phenanthrene | 190 | C15H10  | 000203-64-5 | 83   |
| 2    |    | Anthracene, 1-methyl-          | 192 | C15H12  | 000610-48-0 | 46   |
| 3    |    | 1H-Indene, 2-phenyl-           | 192 | C15H12  | 004505-48-0 | 42   |
| 4    |    | Phenanthrene, 4-methyl-        | 192 | C15H12  | 000832-64-4 | 42   |
| 5    |    | Anthracene, 2-methyl-          | 192 | C15H12  | 000613-12-7 | 42   |



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Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF022719.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

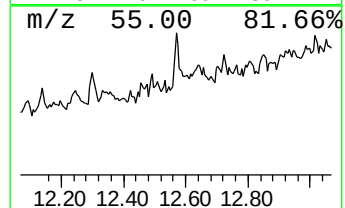
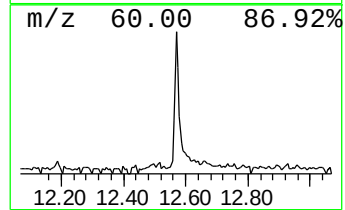
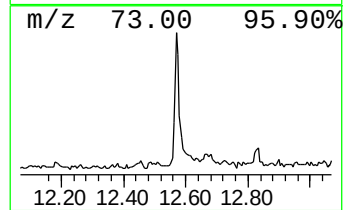
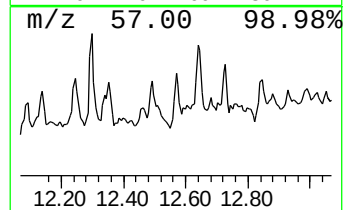
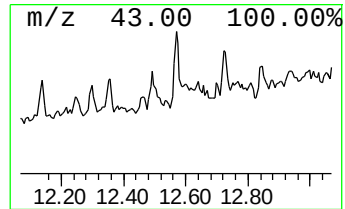
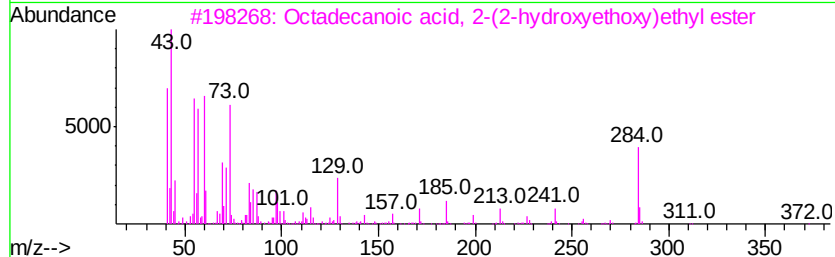
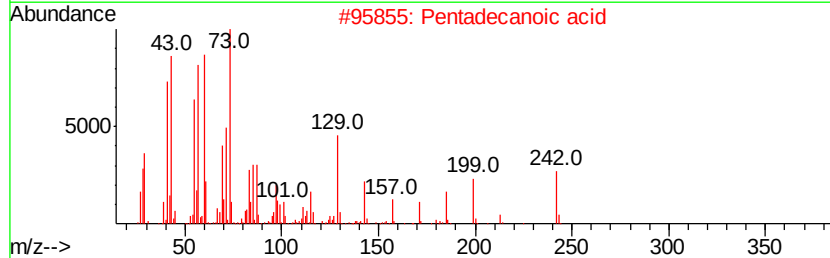
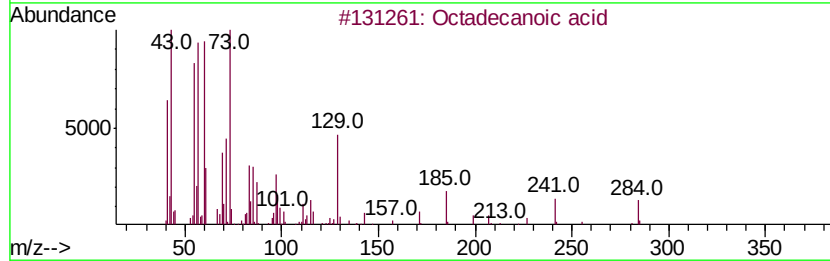
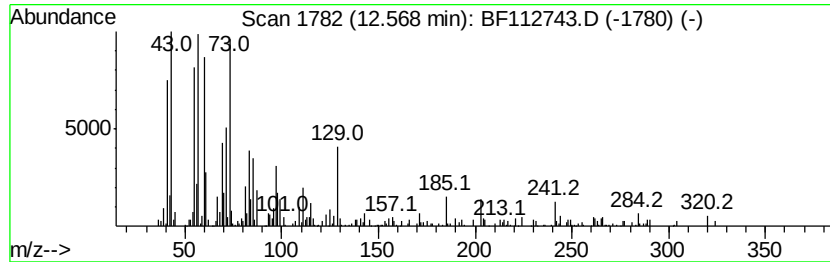
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 5 Octadecanoic acid Concentration Rank 6

| R.T.  | EstConc | Area   | Relative to ISTD | R.T.  |
|-------|---------|--------|------------------|-------|
| 12.57 | 2.27 ng | 188588 | Chrysene-d12     | 13.87 |

| Hit# of | 5 | Tentative ID                         | MW  | MolForm  | CAS#        | Qual |
|---------|---|--------------------------------------|-----|----------|-------------|------|
| 1       |   | Octadecanoic acid                    | 284 | C18H36O2 | 000057-11-4 | 99   |
| 2       |   | Pentadecanoic acid                   | 242 | C15H30O2 | 001002-84-2 | 89   |
| 3       |   | Octadecanoic acid, 2-(2-hydroxyve... | 372 | C22H44O4 | 000106-11-6 | 80   |
| 4       |   | Tridecanoic acid                     | 214 | C13H26O2 | 000638-53-9 | 58   |
| 5       |   | n-Decanoic acid                      | 172 | C10H20O2 | 000334-48-5 | 53   |



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF022719\  
Data File : BF112743.D  
Acq On : 28 Feb 2019 2:40  
Operator : JU/SJ  
Sample : K1596-02  
Misc :  
ALS Vial : 26 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
COMP-14

Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF022719.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

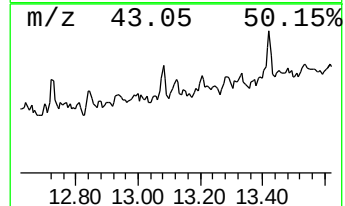
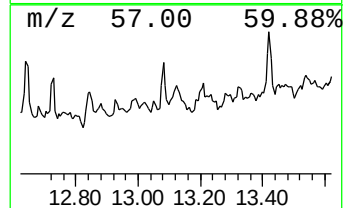
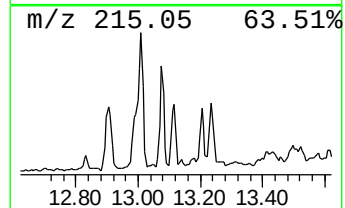
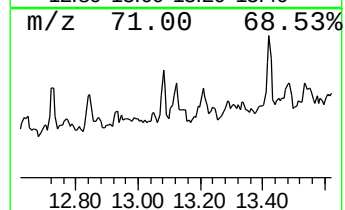
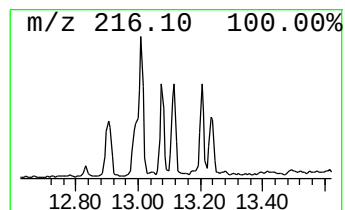
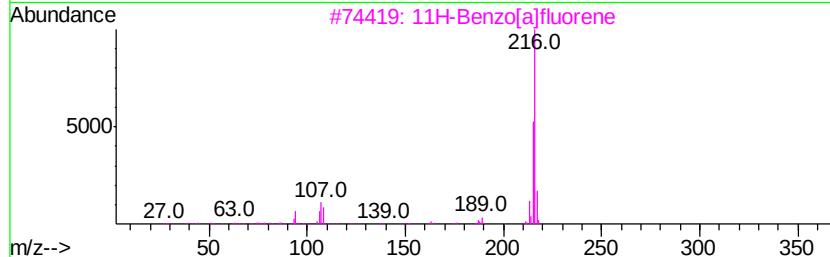
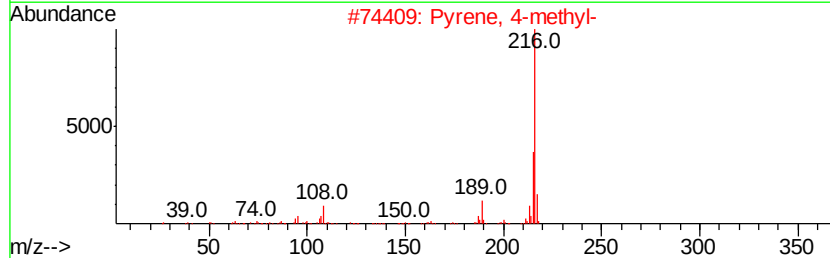
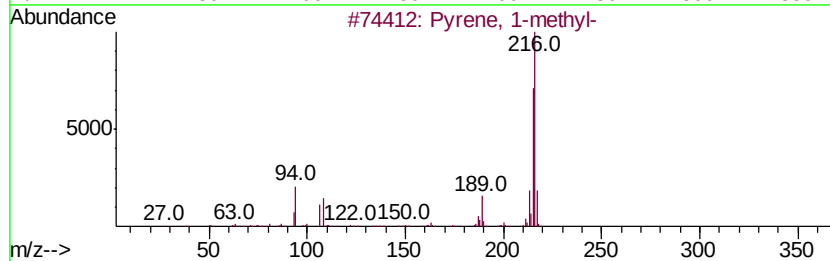
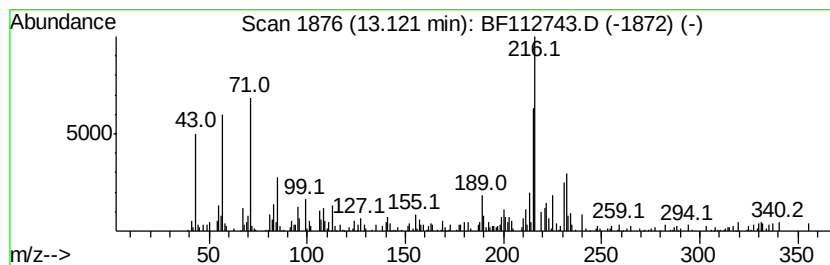
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 6 Pyrene, 1-methyl- Concentration Rank 7

| R.T.  | EstConc | Area   | Relative to ISTD | R.T.  |
|-------|---------|--------|------------------|-------|
| 13.12 | 2.25 ng | 187402 | Chrysene-d12     | 13.87 |

| Hit# of | 5 | Tentative ID                   | MW  | MolForm | CAS#        | Qual |
|---------|---|--------------------------------|-----|---------|-------------|------|
| 1       |   | Pyrene, 1-methyl-              | 216 | C17H12  | 002381-21-7 | 86   |
| 2       |   | Pyrene, 4-methyl-              | 216 | C17H12  | 003353-12-6 | 83   |
| 3       |   | 11H-Benzof[ <i>a</i> ]fluorene | 216 | C17H12  | 000238-84-6 | 70   |
| 4       |   | Pyrene, 2-methyl-              | 216 | C17H12  | 003442-78-2 | 68   |
| 5       |   | Fluoranthene, 2-methyl-        | 216 | C17H12  | 033543-31-6 | 64   |





Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF022719\  
Data File : BF112743.D  
Acq On : 28 Feb 2019 2:40  
Operator : JU/SJ  
Sample : K1596-02  
Misc :  
ALS Vial : 26 Sample Multiplier: 1

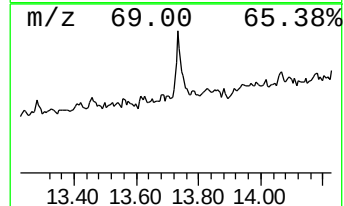
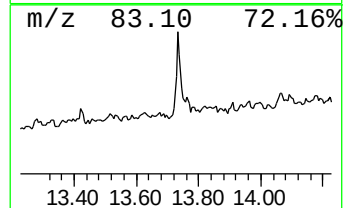
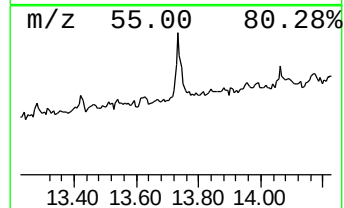
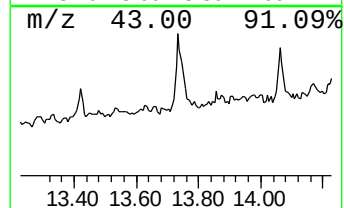
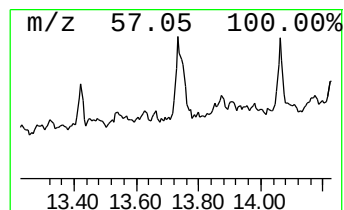
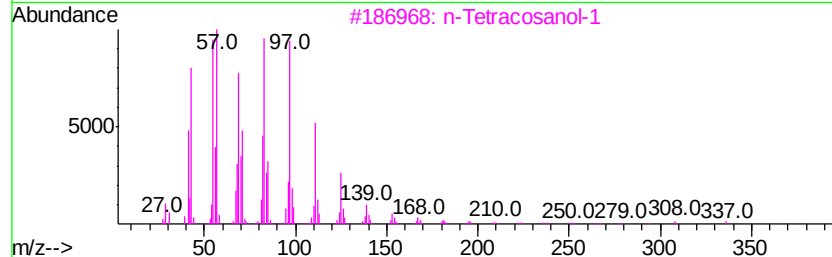
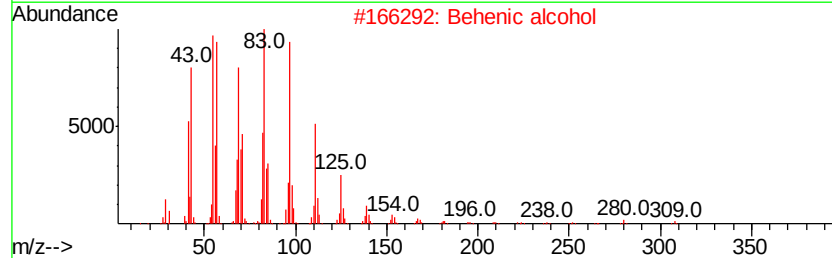
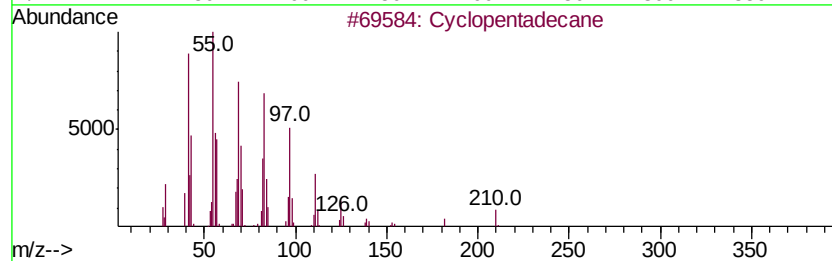
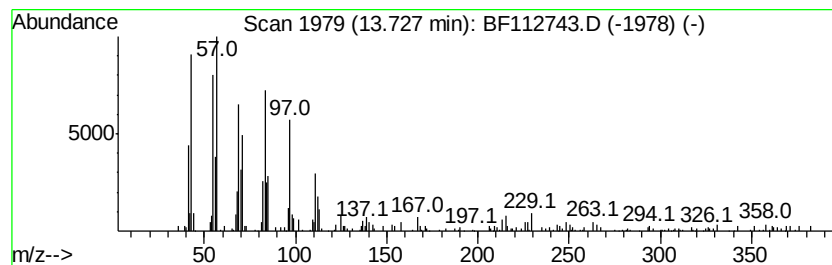
Instrument :  
BNA\_F  
ClientSampleId :  
COMP-14

Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF022719.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 7 Cyclopentadecane Concentration Rank 4

| R.T.    | EstConc | Area                           | Relative to ISTD |            | R.T.        |      |
|---------|---------|--------------------------------|------------------|------------|-------------|------|
| 13.73   | 4.53 ng | 376571                         | Chrysene-d12     |            | 13.87       |      |
| Hit# of | 5       | Tentative ID                   | MW               | MolForm    | CAS#        | Qual |
| 1       |         | Cyclopentadecane               | 210              | C15H30     | 000295-48-7 | 95   |
| 2       |         | Behenic alcohol                | 326              | C22H46O    | 000661-19-8 | 94   |
| 3       |         | n-Tetracosanol-1               | 354              | C24H50O    | 000506-51-4 | 94   |
| 4       |         | 1-Heneicosanol                 | 312              | C21H44O    | 015594-90-8 | 93   |
| 5       |         | Heptadecyl heptafluorobutyrate | 452              | C21H35F7O2 | 959085-66-6 | 93   |



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Data File : BF112743.D  
Acq On : 28 Feb 2019 2:40  
Operator : JU/SJ  
Sample : K1596-02  
Misc :  
ALS Vial : 26 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
COMP-14

Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_F\METHODS\8270-BF022719.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 |
| unknown6.51          | 6.51  | 71.8    | ng    | 3993850  | 1                     | 6.75  | 1112750 | 20.0 |
| n-Hexadecanoic acid  | 11.79 | 6.7     | ng    | 496400   | 4                     | 11.25 | 1481030 | 20.0 |
| 4H-Cyclopenta[def... | 11.86 | 2.5     | ng    | 181343   | 4                     | 11.25 | 1481030 | 20.0 |
| Octadecanoic acid    | 12.57 | 2.3     | ng    | 188588   | 5                     | 13.87 | 1663620 | 20.0 |
| Pyrene, 1-methyl-    | 13.12 | 2.3     | ng    | 187402   | 5                     | 13.87 | 1663620 | 20.0 |
| Cyclopentadecane     | 13.73 | 4.5     | ng    | 376571   | 5                     | 13.87 | 1663620 | 20.0 |