

Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF031418\  
 Data File : BF103642.D  
 Acq On : 14 Mar 2018 15:58  
 Operator : SJ/JU  
 Sample : J1754-07  
 Misc :  
 ALS Vial : 7 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 CL-01-031318-D

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-BF022218.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         | 5.098       | 508           | 512         | 522          | rBV      | 23236          | 55374         | 2.43%           | 0.143%        |
| 2         | 5.487       | 575           | 578         | 612          | rBV      | 644400         | 1993851       | 87.40%          | 5.141%        |
| 3         | 6.116       | 681           | 685         | 695          | rVB      | 396263         | 336932        | 14.77%          | 0.869%        |
| 4         | 6.504       | 748           | 751         | 756          | rBV      | 743517         | 1374064       | 60.23%          | 3.543%        |
| 5         | 6.628       | 769           | 772         | 797          | rVB      | 1486014        | 2281423       | 100.00%         | 5.882%        |
| 6         | 6.792       | 797           | 800         | 807          | rVB      | 109237         | 107164        | 4.70%           | 0.276%        |
| 7         | 6.857       | 808           | 811         | 825          | rBV      | 394833         | 689293        | 30.21%          | 1.777%        |
| 8         | 6.957       | 825           | 828         | 831          | rVV      | 62112          | 55134         | 2.42%           | 0.142%        |
| 9         | 7.010       | 834           | 837         | 852          | rVV      | 1278194        | 1613722       | 70.73%          | 4.161%        |
| 10        | 7.116       | 852           | 855         | 862          | rVV      | 77988          | 151809        | 6.65%           | 0.391%        |
| 11        | 7.169       | 862           | 864         | 871          | rVB3     | 28603          | 40084         | 1.76%           | 0.103%        |
| 12        | 7.428       | 905           | 908         | 932          | rBV      | 625725         | 1451804       | 63.64%          | 3.743%        |
| 13        | 7.645       | 943           | 945         | 951          | rVB4     | 35380          | 42364         | 1.86%           | 0.109%        |
| 14        | 7.869       | 980           | 983         | 986          | rBV      | 49616          | 68324         | 2.99%           | 0.176%        |
| 15        | 8.104       | 1019          | 1023        | 1026         | rBV      | 59601          | 66316         | 2.91%           | 0.171%        |
| 16        | 8.139       | 1026          | 1029        | 1031         | rVV      | 734085         | 809589        | 35.49%          | 2.087%        |
| 17        | 8.157       | 1031          | 1032        | 1049         | rVB      | 796849         | 1171890       | 51.37%          | 3.021%        |
| 18        | 8.416       | 1073          | 1076        | 1080         | rVB4     | 32973          | 39538         | 1.73%           | 0.102%        |
| 19        | 8.581       | 1099          | 1104        | 1105         | rBV3     | 24315          | 36926         | 1.62%           | 0.095%        |
| 20        | 8.639       | 1110          | 1114        | 1117         | rBV2     | 42282          | 54015         | 2.37%           | 0.139%        |
| 21        | 8.710       | 1123          | 1126        | 1131         | rVB      | 98400          | 82481         | 3.62%           | 0.213%        |
| 22        | 8.804       | 1139          | 1142        | 1147         | rVB4     | 39340          | 61169         | 2.68%           | 0.158%        |
| 23        | 8.851       | 1147          | 1150        | 1163         | rBV      | 729056         | 1005381       | 44.07%          | 2.592%        |
| 24        | 8.951       | 1163          | 1167        | 1173         | rBV      | 765002         | 795442        | 34.87%          | 2.051%        |
| 25        | 9.075       | 1185          | 1188        | 1191         | rBV      | 129246         | 114971        | 5.04%           | 0.296%        |
| 26        | 9.139       | 1197          | 1199        | 1204         | rVB      | 47969          | 37133         | 1.63%           | 0.096%        |
| 27        | 9.186       | 1204          | 1207        | 1208         | rBV      | 136890         | 104765        | 4.59%           | 0.270%        |
| 28        | 9.210       | 1208          | 1211        | 1219         | rVV      | 1766646        | 1873387       | 82.11%          | 4.830%        |
| 29        | 9.275       | 1219          | 1222        | 1226         | rVB      | 160132         | 152319        | 6.68%           | 0.393%        |
| 30        | 9.322       | 1226          | 1230        | 1234         | rBV2     | 84545          | 106716        | 4.68%           | 0.275%        |
| 31        | 9.416       | 1243          | 1246        | 1253         | rVB      | 76095          | 125673        | 5.51%           | 0.324%        |
| 32        | 9.481       | 1253          | 1257        | 1262         | rBV      | 321155         | 511024        | 22.40%          | 1.318%        |
| 33        | 9.551       | 1266          | 1269        | 1272         | rVV      | 503285         | 545182        | 23.90%          | 1.406%        |
| 34        | 9.581       | 1272          | 1274        | 1281         | rVB2     | 345792         | 400453        | 17.55%          | 1.032%        |

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 Misc :  
 ALS Vial : 7 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 CL-01-031318-D

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-BF022218.M  
 Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

|    |        |      |      |      |      |         |         |        |        |
|----|--------|------|------|------|------|---------|---------|--------|--------|
| 35 | 9.669  | 1286 | 1289 | 1298 | rVB  | 198456  | 347394  | 15.23% | 0.896% |
| 36 | 9.757  | 1300 | 1304 | 1309 | rBV2 | 222651  | 295893  | 12.97% | 0.763% |
| 37 | 9.804  | 1309 | 1312 | 1317 | rVB  | 152262  | 131919  | 5.78%  | 0.340% |
| 38 | 9.898  | 1321 | 1328 | 1331 | rBV2 | 732341  | 907985  | 39.80% | 2.341% |
| 39 | 9.928  | 1331 | 1333 | 1342 | rVB3 | 146718  | 240571  | 10.54% | 0.620% |
| 40 | 10.004 | 1342 | 1346 | 1349 | rBV  | 83356   | 113988  | 5.00%  | 0.294% |
| 41 | 10.092 | 1358 | 1361 | 1365 | rBV2 | 154100  | 198350  | 8.69%  | 0.511% |
| 42 | 10.139 | 1366 | 1369 | 1372 | rVB  | 138808  | 147806  | 6.48%  | 0.381% |
| 43 | 10.210 | 1377 | 1381 | 1384 | rBV  | 162817  | 182687  | 8.01%  | 0.471% |
| 44 | 10.239 | 1384 | 1386 | 1390 | rVV2 | 102810  | 115227  | 5.05%  | 0.297% |
| 45 | 10.304 | 1390 | 1397 | 1404 | rVV3 | 270352  | 402789  | 17.66% | 1.039% |
| 46 | 10.363 | 1404 | 1407 | 1410 | rVV3 | 34662   | 47437   | 2.08%  | 0.122% |
| 47 | 10.392 | 1410 | 1412 | 1415 | rVV  | 63173   | 53056   | 2.33%  | 0.137% |
| 48 | 10.451 | 1415 | 1422 | 1428 | rVV2 | 311108  | 497763  | 21.82% | 1.283% |
| 49 | 10.522 | 1430 | 1434 | 1438 | rVV2 | 111317  | 186073  | 8.16%  | 0.480% |
| 50 | 10.557 | 1438 | 1440 | 1443 | rVV3 | 42037   | 50987   | 2.23%  | 0.131% |
| 51 | 10.586 | 1443 | 1445 | 1446 | rVV2 | 37301   | 36307   | 1.59%  | 0.094% |
| 52 | 10.604 | 1446 | 1448 | 1452 | rVV3 | 65229   | 74071   | 3.25%  | 0.191% |
| 53 | 10.698 | 1458 | 1464 | 1475 | rBV3 | 536371  | 927274  | 40.64% | 2.391% |
| 54 | 10.780 | 1475 | 1478 | 1488 | rVB2 | 166327  | 293555  | 12.87% | 0.757% |
| 55 | 10.886 | 1492 | 1496 | 1498 | rBV3 | 42418   | 45860   | 2.01%  | 0.118% |
| 56 | 10.998 | 1508 | 1515 | 1518 | rBV2 | 141758  | 241374  | 10.58% | 0.622% |
| 57 | 11.027 | 1518 | 1520 | 1524 | rVV  | 104197  | 120063  | 5.26%  | 0.310% |
| 58 | 11.080 | 1526 | 1529 | 1532 | rVB  | 58079   | 53176   | 2.33%  | 0.137% |
| 59 | 11.227 | 1552 | 1554 | 1556 | rVV  | 141165  | 117405  | 5.15%  | 0.303% |
| 60 | 11.257 | 1556 | 1559 | 1561 | rVV  | 70225   | 80318   | 3.52%  | 0.207% |
| 61 | 11.292 | 1562 | 1565 | 1573 | rVB  | 127656  | 201397  | 8.83%  | 0.519% |
| 62 | 11.392 | 1579 | 1582 | 1584 | rBV  | 583158  | 590333  | 25.88% | 1.522% |
| 63 | 11.416 | 1584 | 1586 | 1594 | rVV  | 1039486 | 1334897 | 58.51% | 3.442% |
| 64 | 11.480 | 1594 | 1597 | 1603 | rVV2 | 182578  | 351002  | 15.39% | 0.905% |
| 65 | 11.533 | 1604 | 1606 | 1615 | rVB2 | 79325   | 146272  | 6.41%  | 0.377% |
| 66 | 11.657 | 1624 | 1627 | 1630 | rBV  | 130338  | 114048  | 5.00%  | 0.294% |
| 67 | 11.727 | 1637 | 1639 | 1642 | rBV  | 55127   | 60606   | 2.66%  | 0.156% |
| 68 | 11.757 | 1642 | 1644 | 1649 | rVB  | 290738  | 259205  | 11.36% | 0.668% |
| 69 | 11.816 | 1650 | 1654 | 1658 | rBV  | 63083   | 91009   | 3.99%  | 0.235% |
| 70 | 11.910 | 1664 | 1670 | 1671 | rBV2 | 607132  | 832412  | 36.49% | 2.146% |
| 71 | 11.927 | 1671 | 1673 | 1679 | rVV2 | 498888  | 718571  | 31.50% | 1.853% |

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 Misc :  
 ALS Vial : 7 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 CL-01-031318-D

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:\HPCHEM1\BNA\_F\METHODS\8270-BF022218.M  
 Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

|     |        |      |      |      |      |         |         |        |        |
|-----|--------|------|------|------|------|---------|---------|--------|--------|
| 72  | 11.980 | 1679 | 1682 | 1684 | rVV  | 120577  | 155036  | 6.80%  | 0.400% |
| 73  | 12.010 | 1684 | 1687 | 1689 | rVV2 | 296700  | 368143  | 16.14% | 0.949% |
| 74  | 12.033 | 1689 | 1691 | 1694 | rVV  | 238035  | 256861  | 11.26% | 0.662% |
| 75  | 12.063 | 1694 | 1696 | 1700 | rVB  | 142085  | 123241  | 5.40%  | 0.318% |
| 76  | 12.133 | 1705 | 1708 | 1711 | rBV2 | 33094   | 37982   | 1.66%  | 0.098% |
| 77  | 12.192 | 1715 | 1718 | 1720 | rBV2 | 97730   | 103579  | 4.54%  | 0.267% |
| 78  | 12.339 | 1741 | 1743 | 1746 | rVB2 | 62156   | 53856   | 2.36%  | 0.139% |
| 79  | 12.374 | 1746 | 1749 | 1751 | rBV  | 105042  | 91172   | 4.00%  | 0.235% |
| 80  | 12.398 | 1751 | 1753 | 1758 | rVB3 | 60743   | 79438   | 3.48%  | 0.205% |
| 81  | 12.451 | 1758 | 1762 | 1763 | rBV2 | 1193205 | 1167025 | 51.15% | 3.009% |
| 82  | 12.469 | 1763 | 1765 | 1774 | rVB4 | 808368  | 867256  | 38.01% | 2.236% |
| 83  | 12.533 | 1774 | 1776 | 1777 | rBV2 | 55053   | 43184   | 1.89%  | 0.111% |
| 84  | 12.551 | 1777 | 1779 | 1785 | rVB2 | 190775  | 211236  | 9.26%  | 0.545% |
| 85  | 12.616 | 1787 | 1790 | 1795 | rBV  | 463414  | 540980  | 23.71% | 1.395% |
| 86  | 12.692 | 1800 | 1803 | 1813 | rVB2 | 397391  | 486614  | 21.33% | 1.255% |
| 87  | 12.827 | 1823 | 1826 | 1827 | rBV2 | 177524  | 157767  | 6.92%  | 0.407% |
| 88  | 12.851 | 1827 | 1830 | 1835 | rVB  | 516269  | 581811  | 25.50% | 1.500% |
| 89  | 12.974 | 1848 | 1851 | 1859 | rVB  | 1182225 | 1195249 | 52.39% | 3.082% |
| 90  | 13.180 | 1883 | 1886 | 1891 | rVB  | 255915  | 263203  | 11.54% | 0.679% |
| 91  | 13.280 | 1901 | 1903 | 1906 | rBV2 | 85567   | 96296   | 4.22%  | 0.248% |
| 92  | 13.380 | 1917 | 1920 | 1922 | rBV  | 75910   | 96048   | 4.21%  | 0.248% |
| 93  | 13.527 | 1942 | 1945 | 1948 | rBV  | 166062  | 173149  | 7.59%  | 0.446% |
| 94  | 13.857 | 1998 | 2001 | 2007 | rBV2 | 368234  | 398286  | 17.46% | 1.027% |
| 95  | 14.057 | 2030 | 2035 | 2038 | rBV2 | 553432  | 817863  | 35.85% | 2.109% |
| 96  | 14.174 | 2052 | 2055 | 2059 | rBV  | 125194  | 126246  | 5.53%  | 0.326% |
| 97  | 14.480 | 2105 | 2107 | 2112 | rBV2 | 150704  | 150201  | 6.58%  | 0.387% |
| 98  | 15.127 | 2214 | 2217 | 2228 | rVB  | 262682  | 501943  | 22.00% | 1.294% |
| 99  | 15.515 | 2280 | 2283 | 2288 | rVB  | 198896  | 270379  | 11.85% | 0.697% |
| 100 | 15.568 | 2289 | 2292 | 2299 | rVB  | 262444  | 406254  | 17.81% | 1.047% |

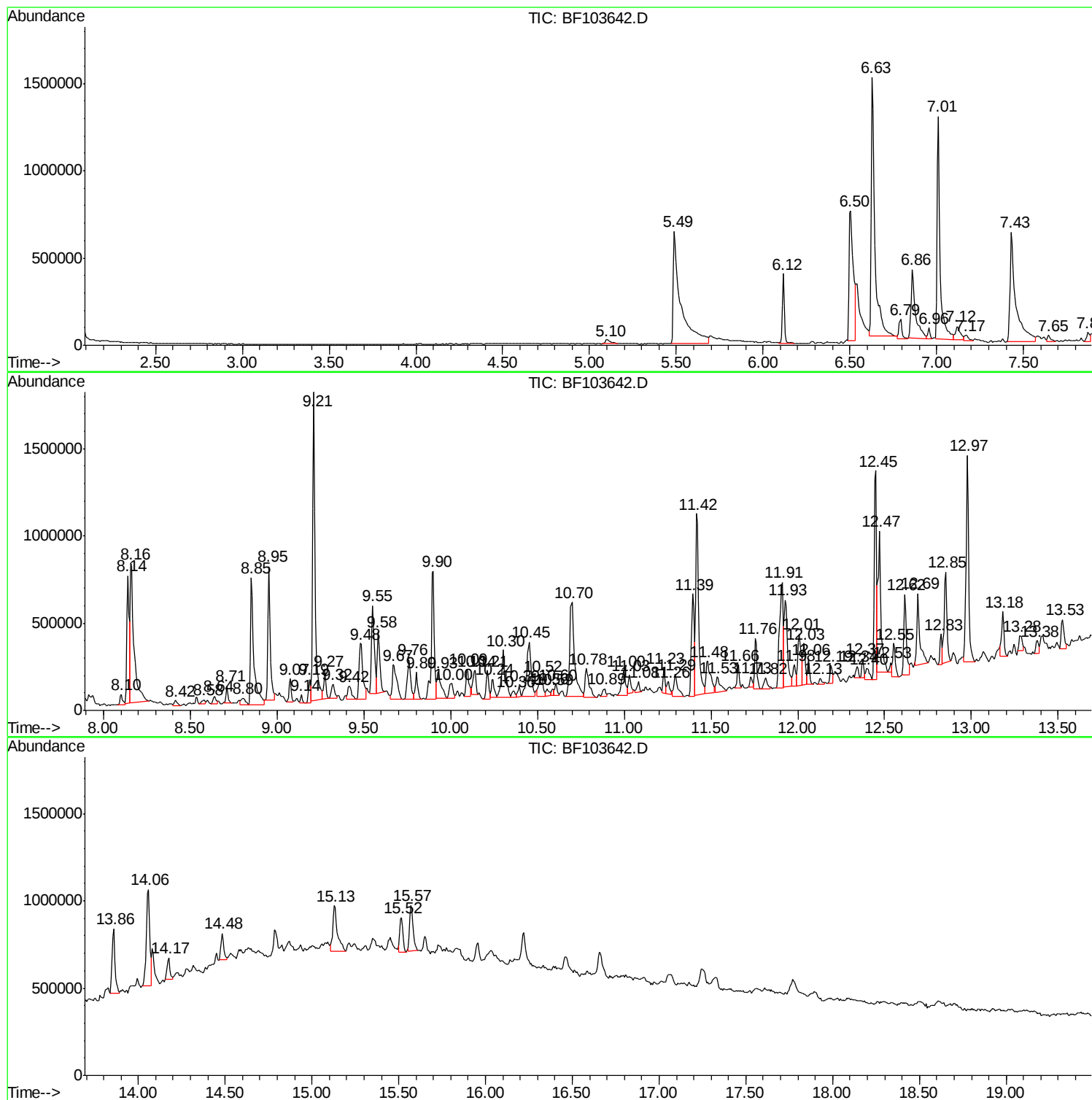
Sum of corrected areas: 38785090

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Misc :  
ALS Vial : 7 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
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Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF022218.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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



Data Path : Z:\HPCHEM1\BNA F\DATA\BF031418\  
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Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF022218.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

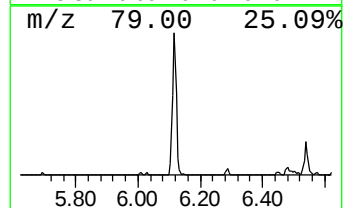
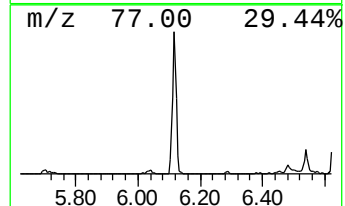
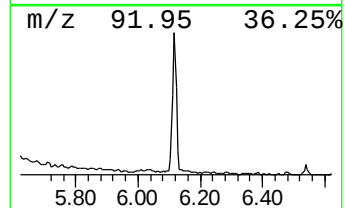
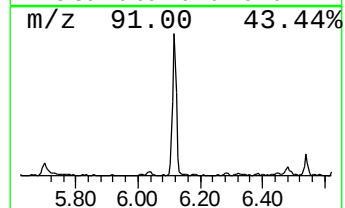
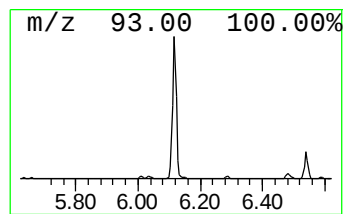
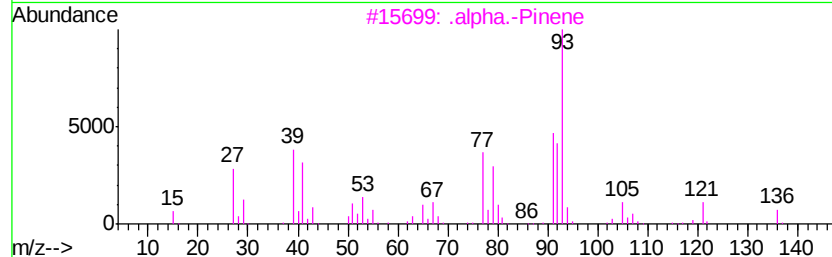
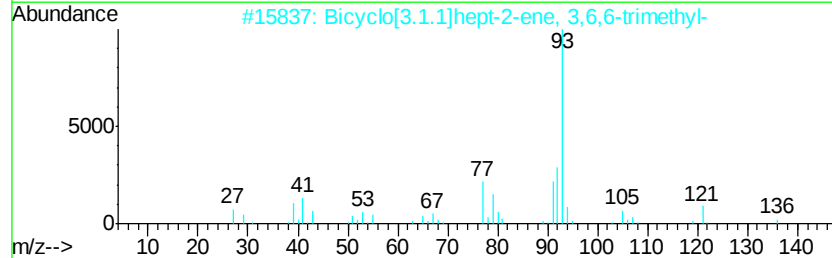
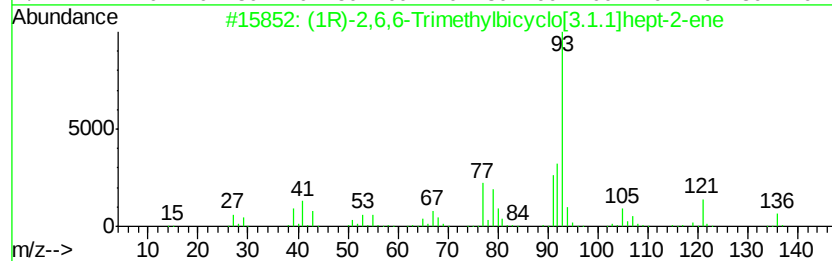
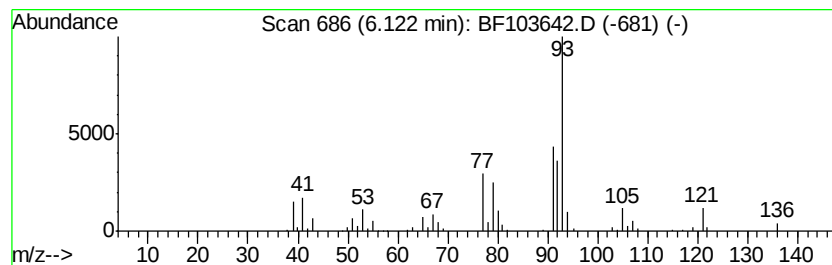
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 1 (1R)-2,6,6-Trimethylbicyclo... Concentration Rank 11

| R.T. | EstConc | Area   | Relative to ISTD       | R.T. |
|------|---------|--------|------------------------|------|
| 6.12 | 9.78 ng | 336932 | 1,4-Dichlorobenzene-d4 | 6.86 |

| Hit# | of | Tentative ID                                 | MW  | MolForm | CAS#        | Qual |
|------|----|----------------------------------------------|-----|---------|-------------|------|
| 1    | 5  | (1R)-2,6,6-Trimethylbicyclo[3.1.1]hept-2-ene | 136 | C10H16  | 007785-70-8 | 94   |
| 2    |    | Bicyclo[3.1.1]hept-2-ene, 3,6,6-trimethyl-   | 136 | C10H16  | 004889-83-2 | 94   |
| 3    |    | .alpha.-Pinene                               | 136 | C10H16  | 000080-56-8 | 94   |
| 4    |    | (+)-3-Carene                                 | 136 | C10H16  | 000498-15-7 | 91   |
| 5    |    | 3-Carene                                     | 136 | C10H16  | 013466-78-9 | 91   |



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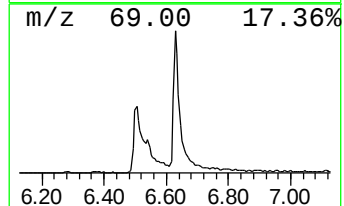
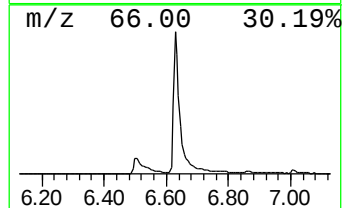
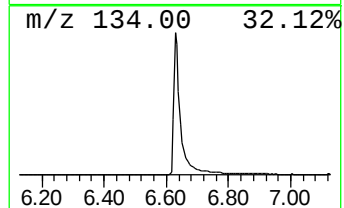
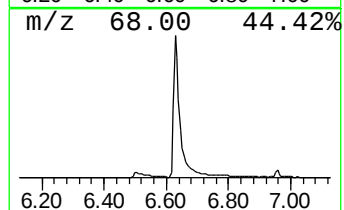
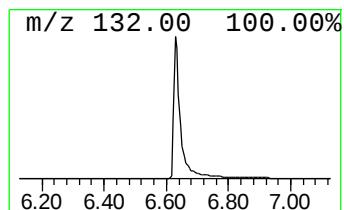
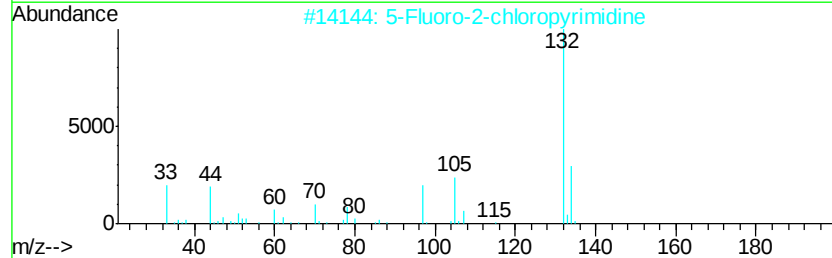
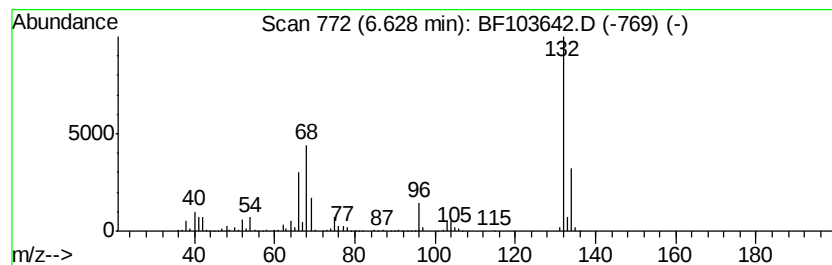
Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF022218.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

\*\*\*\*\*  
Peak Number 2 unknown6.63 Concentration Rank 1

| R.T. | EstConc  | Area    | Relative to ISTD       | R.T. |
|------|----------|---------|------------------------|------|
| 6.63 | 66.20 ng | 2281420 | 1,4-Dichlorobenzene-d4 | 6.86 |

| Hit# | of | Tentative ID                        | MW  | MolForm   | CAS#         | Qual |
|------|----|-------------------------------------|-----|-----------|--------------|------|
| 1    | 5  | 3-Chloro-6-fluoro-pyrazine          | 132 | C4H2ClFN2 | 1000146-10-7 | 27   |
| 2    |    | 5-Fluoro-2-chloropyrimidine         | 132 | C4H2ClFN2 | 062802-42-0  | 16   |
| 3    |    | Tranvlcypropine-propionyl           | 189 | C12H15NO  | 1000123-86-3 | 10   |
| 4    |    | Bicyclo[4.2.0]octa-1,3,5-triene,... | 132 | C10H12    | 028749-81-7  | 9    |
| 5    |    | Benzene, 1-ethenyl-3,5-dimethyl-    | 132 | C10H12    | 005379-20-4  | 9    |



Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF031418\  
Data File : BF103642.D  
Acq On : 14 Mar 2018 15:58  
Operator : SJ/JU  
Sample : J1754-07  
Misc :  
ALS Vial : 7 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
CL-01-031318-D

Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF022218.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

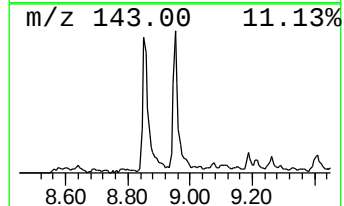
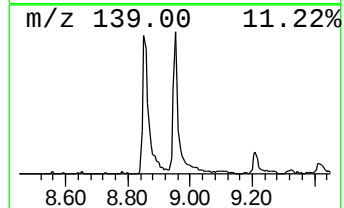
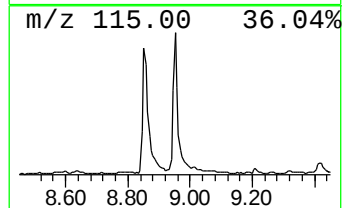
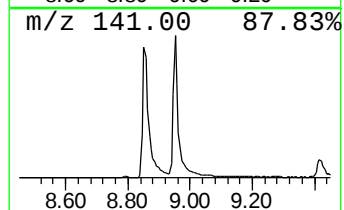
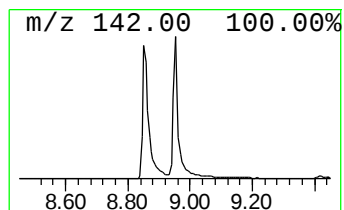
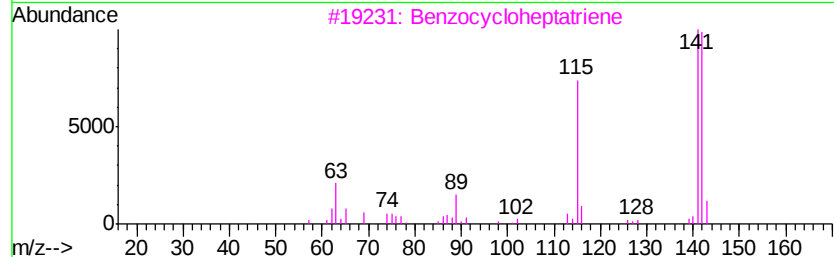
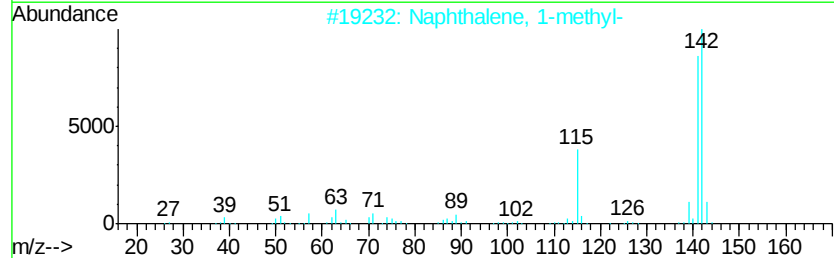
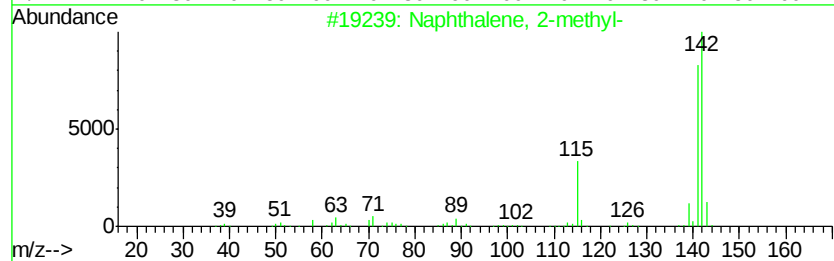
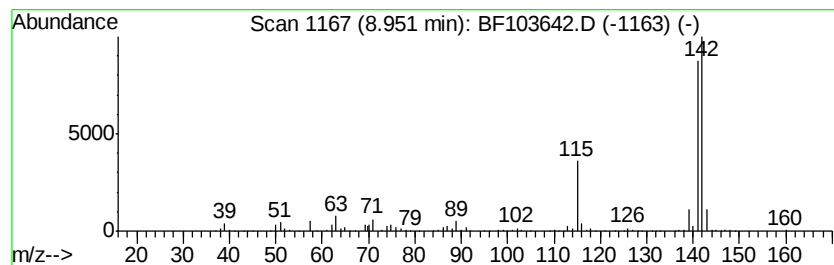
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 4 Naphthalene, 2-methyl- Concentration Rank 5

| R.T. | EstConc  | Area   | Relative to ISTD | R.T. |
|------|----------|--------|------------------|------|
| 8.95 | 19.65 ng | 795442 | Naphthalene-d8   | 8.14 |

| Hit# | of | Tentative ID                        | MW  | MolForm | CAS#        | Qual |
|------|----|-------------------------------------|-----|---------|-------------|------|
| 1    | 5  | Naphthalene, 2-methyl-              | 142 | C11H10  | 000091-57-6 | 96   |
| 2    |    | Naphthalene, 1-methyl-              | 142 | C11H10  | 000090-12-0 | 96   |
| 3    |    | Benzocycloheptatriene               | 142 | C11H10  | 000264-09-5 | 94   |
| 4    |    | 1,4-Methanonaphthalene, 1,4-dihy... | 142 | C11H10  | 004453-90-1 | 91   |
| 5    |    | 1H-Indene, 1-ethylidene-            | 142 | C11H10  | 002471-83-2 | 72   |



Data Path : Z:\HPCHEM1\BNA F\DATA\BF031418\  
Data File : BF103642.D  
Acq On : 14 Mar 2018 15:58  
Operator : SJ/JU  
Sample : J1754-07  
Misc :  
ALS Vial : 7 Sample Multiplier: 1

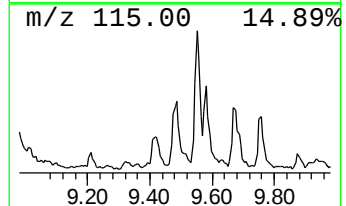
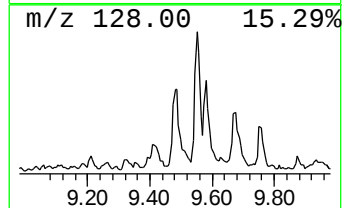
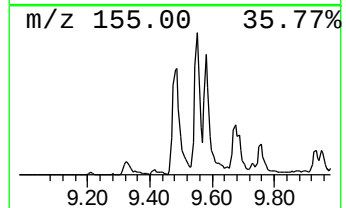
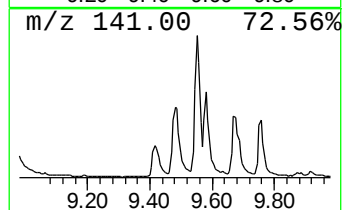
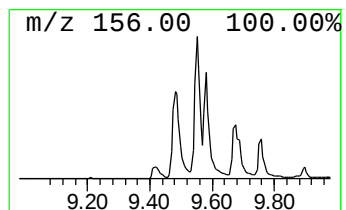
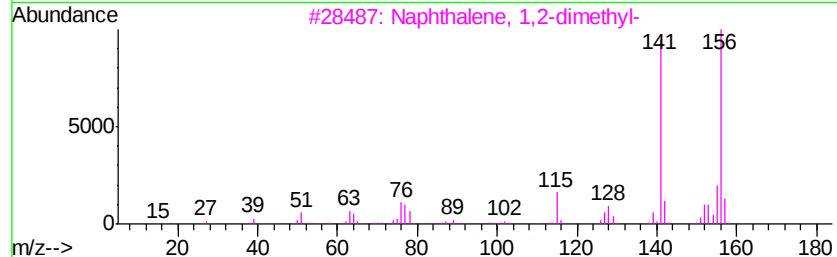
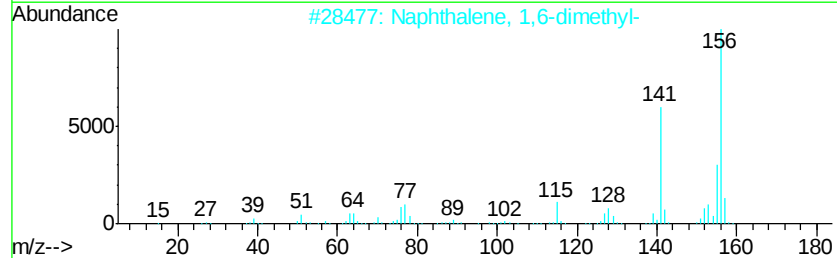
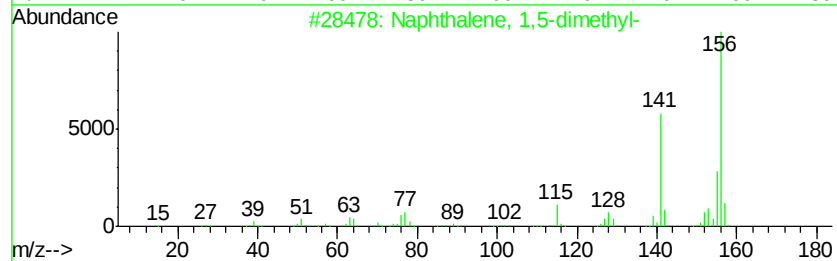
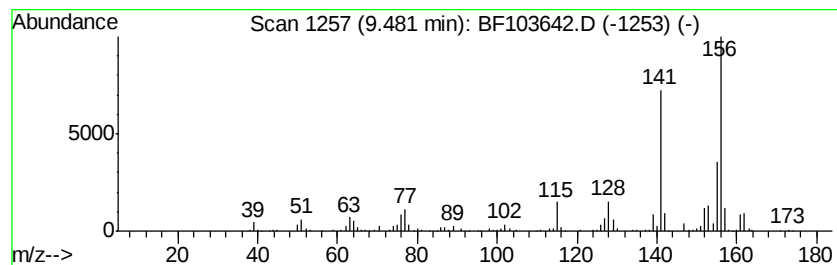
Instrument :  
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ClientSampleId :  
CL-01-031318-D

Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF022218.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 Naphthalene, 1,5-dimethyl- Concentration Rank 9

| R.T.    | EstConc  | Area                       | Relative to ISTD | R.T.           |
|---------|----------|----------------------------|------------------|----------------|
| 9.48    | 11.26 ng | 511024                     | Acenaphthene-d10 | 9.90           |
| Hit# of | 5        | Tentative ID               | MW MolForm       | CAS# Qual      |
| 1       |          | Naphthalene, 1,5-dimethyl- | 156 C12H12       | 000571-61-9 97 |
| 2       |          | Naphthalene, 1,6-dimethyl- | 156 C12H12       | 000575-43-9 97 |
| 3       |          | Naphthalene, 1,2-dimethyl- | 156 C12H12       | 000573-98-8 96 |
| 4       |          | Naphthalene, 1,3-dimethyl- | 156 C12H12       | 000575-41-7 96 |
| 5       |          | Naphthalene, 1,7-dimethyl- | 156 C12H12       | 000575-37-1 96 |



Data Path : Z:\HPCHEM1\BNA F\DATA\BF031418\  
Data File : BF103642.D  
Acq On : 14 Mar 2018 15:58  
Operator : SJ/JU  
Sample : J1754-07  
Misc :  
ALS Vial : 7 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
CL-01-031318-D

Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF022218.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

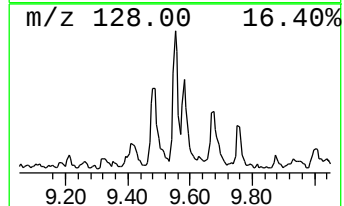
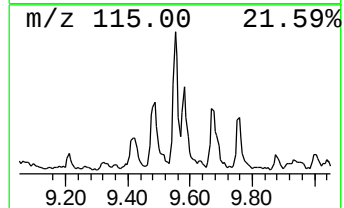
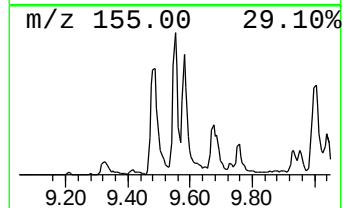
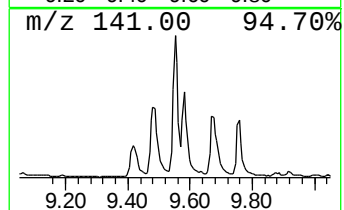
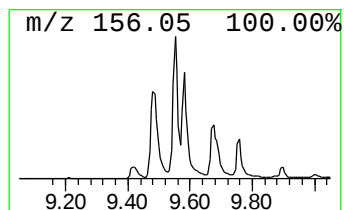
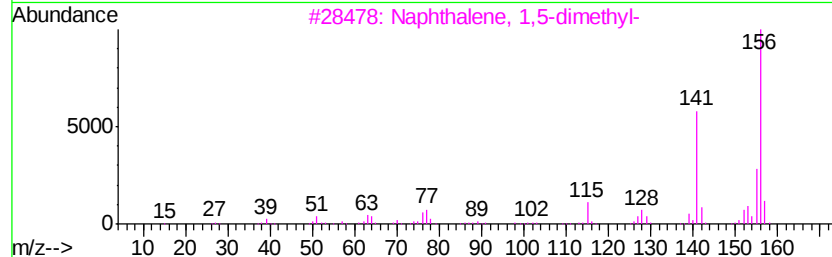
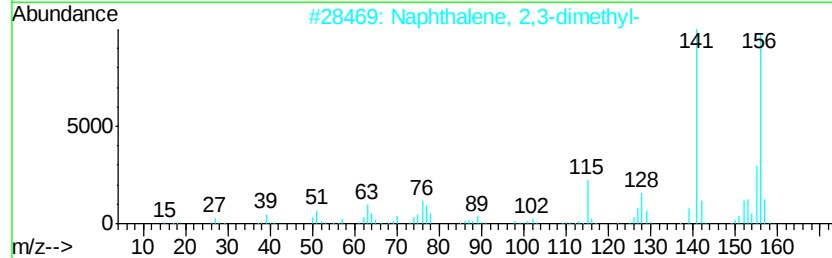
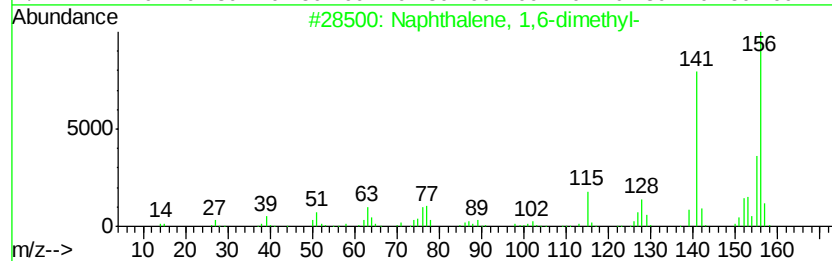
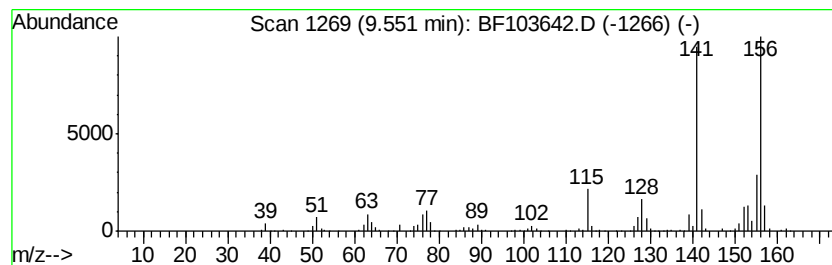
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 6 Naphthalene, 1,6-dimethyl- Concentration Rank 8

| R.T. | EstConc  | Area   | Relative to ISTD | R.T. |
|------|----------|--------|------------------|------|
| 9.55 | 12.01 ng | 545182 | Acenaphthene-d10 | 9.90 |

| Hit# | of | Tentative ID               | MW  | MolForm | CAS#        | Qual |
|------|----|----------------------------|-----|---------|-------------|------|
| 1    | 5  | Naphthalene, 1,6-dimethyl- | 156 | C12H12  | 000575-43-9 | 98   |
| 2    |    | Naphthalene, 2,3-dimethyl- | 156 | C12H12  | 000581-40-8 | 98   |
| 3    |    | Naphthalene, 1,5-dimethyl- | 156 | C12H12  | 000571-61-9 | 97   |
| 4    |    | Naphthalene, 2,7-dimethyl- | 156 | C12H12  | 000582-16-1 | 97   |
| 5    |    | Naphthalene, 1,3-dimethyl- | 156 | C12H12  | 000575-41-7 | 96   |



Data Path : Z:\HPCHEM1\BNA F\DATA\BF031418\  
Data File : BF103642.D  
Acq On : 14 Mar 2018 15:58  
Operator : SJ/JU  
Sample : J1754-07  
Misc :  
ALS Vial : 7 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
CL-01-031318-D

Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF022218.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

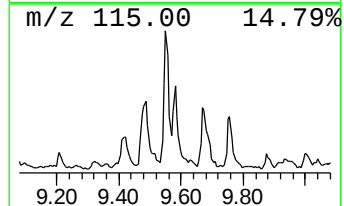
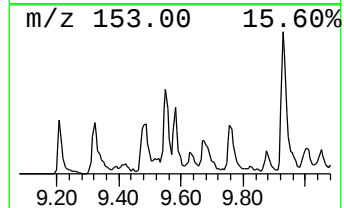
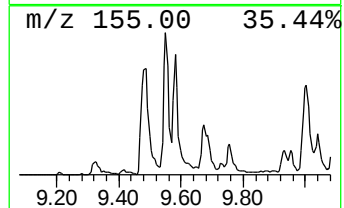
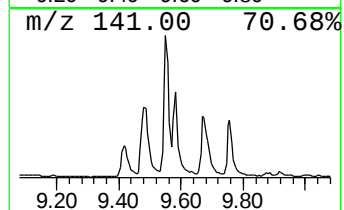
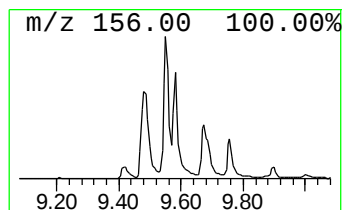
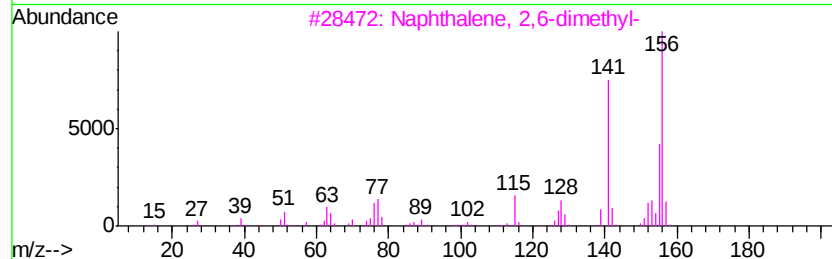
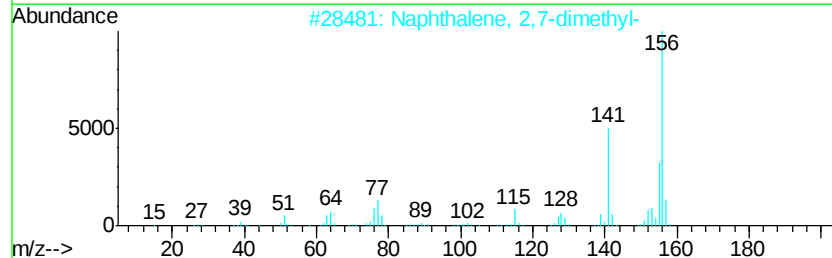
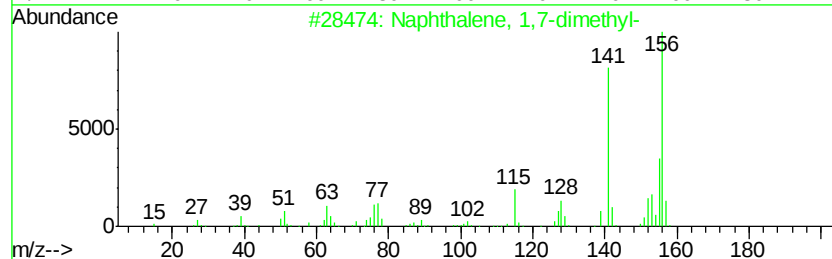
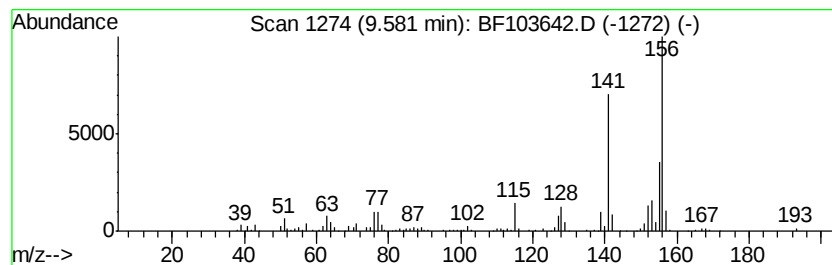
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 7 Naphthalene, 1,7-dimethyl- Concentration Rank 14

| R.T. | EstConc | Area   | Relative to ISTD | R.T. |
|------|---------|--------|------------------|------|
| 9.58 | 8.82 ng | 400453 | Acenaphthene-d10 | 9.90 |

| Hit# | of | 5 | Tentative ID               | MW  | MolForm | CAS#        | Qual |
|------|----|---|----------------------------|-----|---------|-------------|------|
| 1    |    |   | Naphthalene, 1,7-dimethyl- | 156 | C12H12  | 000575-37-1 | 98   |
| 2    |    |   | Naphthalene, 2,7-dimethyl- | 156 | C12H12  | 000582-16-1 | 97   |
| 3    |    |   | Naphthalene, 2,6-dimethyl- | 156 | C12H12  | 000581-42-0 | 97   |
| 4    |    |   | Naphthalene, 1,6-dimethyl- | 156 | C12H12  | 000575-43-9 | 97   |
| 5    |    |   | Naphthalene, 1,2-dimethyl- | 156 | C12H12  | 000573-98-8 | 96   |



Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF031418\  
Data File : BF103642.D  
Acq On : 14 Mar 2018 15:58  
Operator : SJ/JU  
Sample : J1754-07  
Misc :  
ALS Vial : 7 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
CL-01-031318-D

Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF022218.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

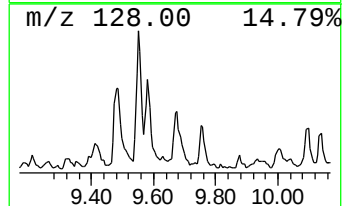
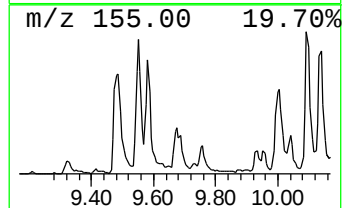
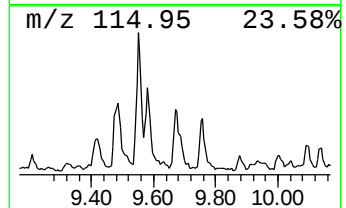
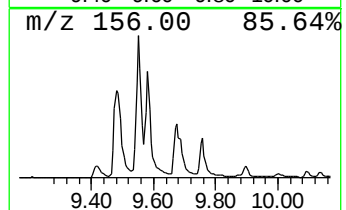
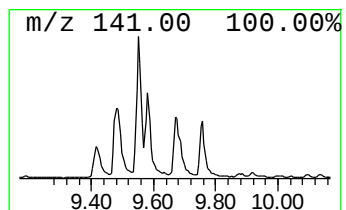
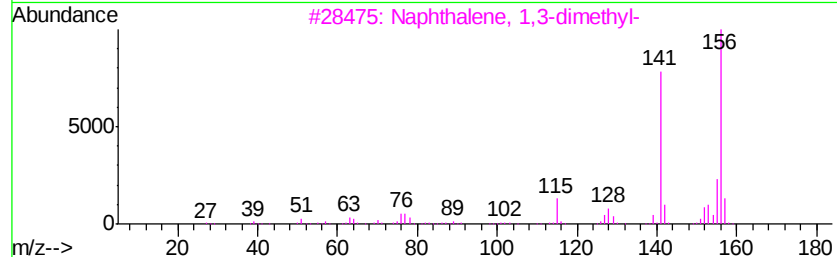
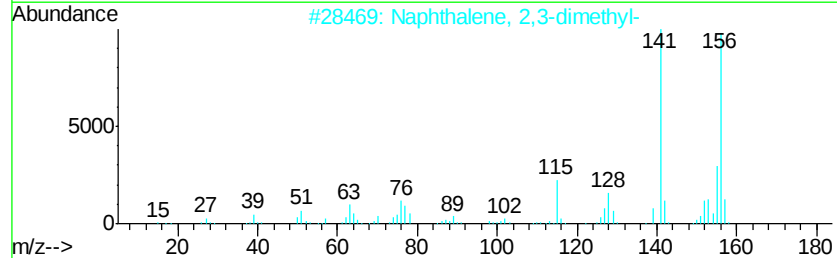
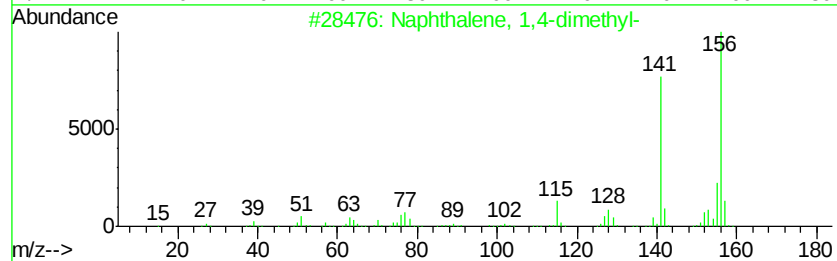
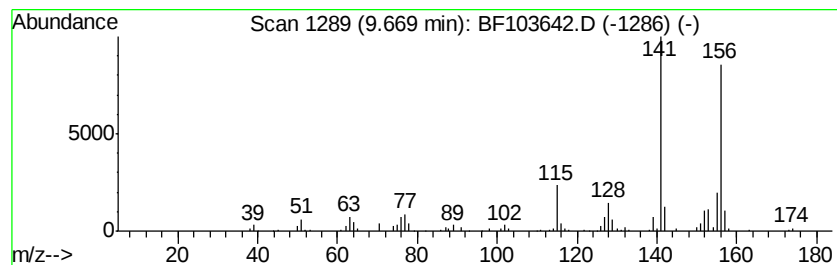
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 8 Naphthalene, 1,4-dimethyl- Concentration Rank 18

| R.T. | EstConc | Area   | Relative to ISTD | R.T. |
|------|---------|--------|------------------|------|
| 9.67 | 7.65 ng | 347394 | Acenaphthene-d10 | 9.90 |

| Hit# | of | 5 | Tentative ID               | MW  | MolForm | CAS#        | Qual |
|------|----|---|----------------------------|-----|---------|-------------|------|
| 1    |    |   | Naphthalene, 1,4-dimethyl- | 156 | C12H12  | 000571-58-4 | 94   |
| 2    |    |   | Naphthalene, 2,3-dimethyl- | 156 | C12H12  | 000581-40-8 | 94   |
| 3    |    |   | Naphthalene, 1,3-dimethyl- | 156 | C12H12  | 000575-41-7 | 94   |
| 4    |    |   | Naphthalene, 1,8-dimethyl- | 156 | C12H12  | 000569-41-5 | 93   |
| 5    |    |   | Naphthalene, 1,2-dimethyl- | 156 | C12H12  | 000573-98-8 | 93   |



Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF031418\  
Data File : BF103642.D  
Acq On : 14 Mar 2018 15:58  
Operator : SJ/JU  
Sample : J1754-07  
Misc :  
ALS Vial : 7 Sample Multiplier: 1

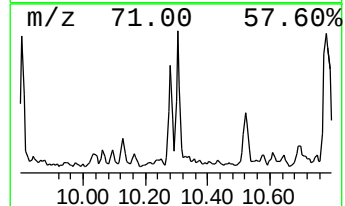
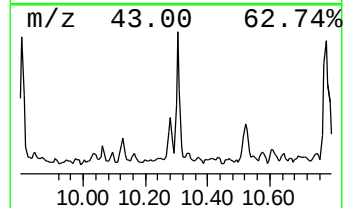
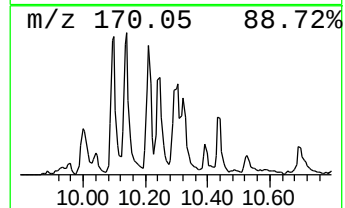
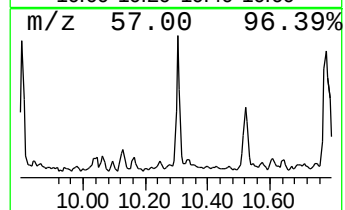
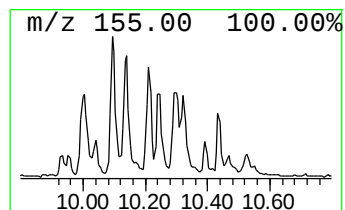
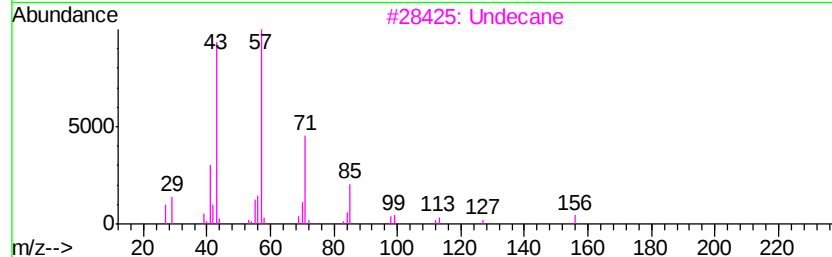
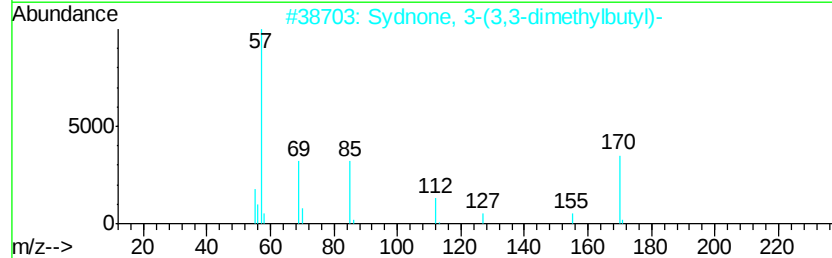
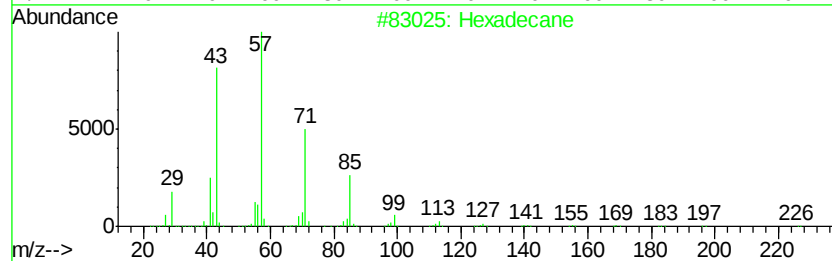
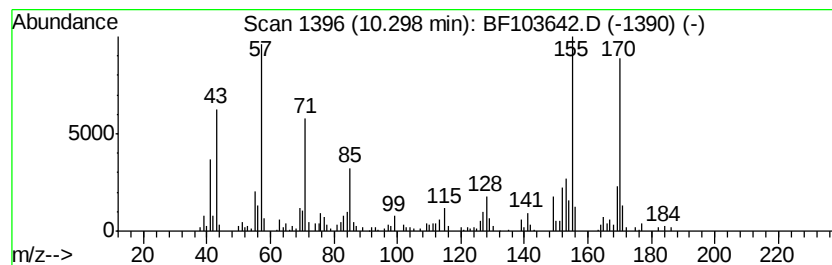
Instrument :  
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ClientSampleId :  
CL-01-031318-D

Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF022218.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 9 Hexadecane Concentration Rank 13

| R.T.    | EstConc                             | Area          | Relative to ISTD | R.T.      |
|---------|-------------------------------------|---------------|------------------|-----------|
| 10.30   | 8.87 ng                             | 402789        | Acenaphthene-d10 | 9.90      |
| Hit# of | 5                                   | Tentative ID  | MW MolForm       | CAS# Qual |
| 1       | Hexadecane                          | 226 C16H34    | 000544-76-3      | 30        |
| 2       | Sydnone, 3-(3,3-dimethylbutyl)-     | 170 C8H14N2O2 | 026537-49-5      | 30        |
| 3       | Undecane                            | 156 C11H24    | 001120-21-4      | 30        |
| 4       | 3-Methyl-4-(methoxycarbonyl)hexa... | 184 C9H12O4   | 1000104-10-8     | 30        |
| 5       | Tetradecane, 1-iodo-                | 324 C14H29I   | 019218-94-1      | 30        |



Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF031418\  
Data File : BF103642.D  
Acq On : 14 Mar 2018 15:58  
Operator : SJ/JU  
Sample : J1754-07  
Misc :  
ALS Vial : 7 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
CL-01-031318-D

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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

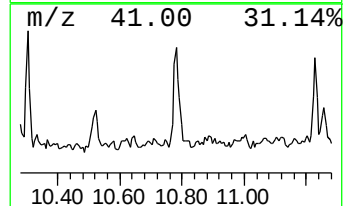
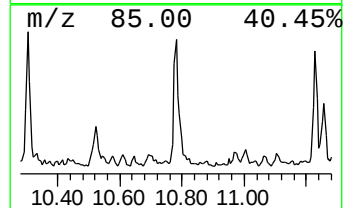
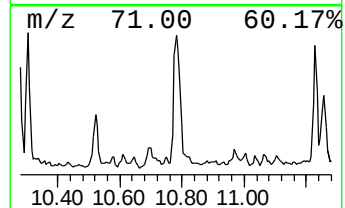
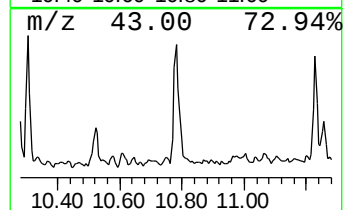
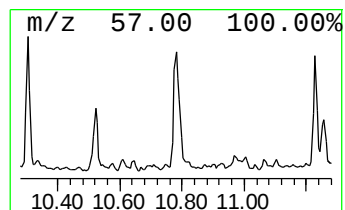
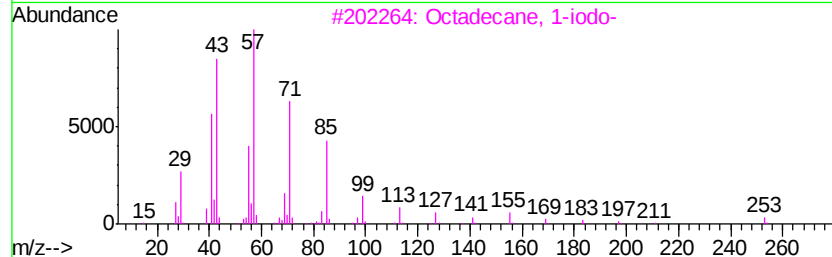
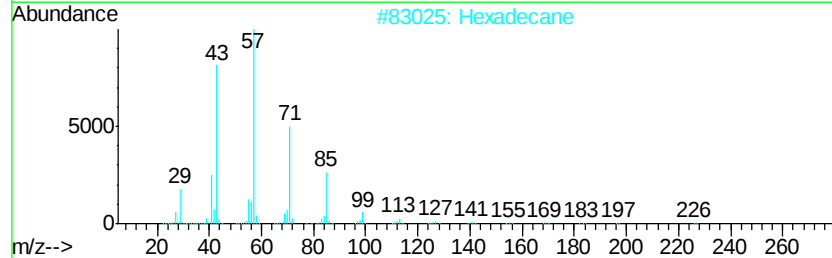
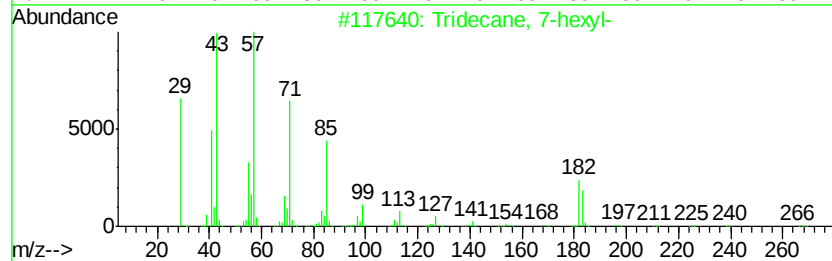
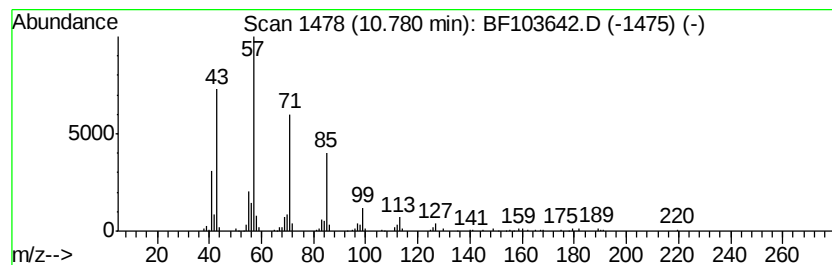
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TIC Integration Parameters: LSCINT.P

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Peak Number 10 Tridecane, 7-hexyl- Concentration Rank 10

| R.T.  | EstConc | Area   | Relative to ISTD | R.T.  |
|-------|---------|--------|------------------|-------|
| 10.78 | 9.95 ng | 293555 | Phenanthrene-d10 | 11.39 |

| Hit# | of | Tentative ID        | MW  | MolForm | CAS#        | Qual |
|------|----|---------------------|-----|---------|-------------|------|
| 1    | 5  | Tridecane, 7-hexyl- | 268 | C19H40  | 007225-66-3 | 90   |
| 2    |    | Hexadecane          | 226 | C16H34  | 000544-76-3 | 90   |
| 3    |    | Octadecane, 1-iodo- | 380 | C18H37I | 000629-93-6 | 90   |
| 4    |    | Tridecane, 1-iodo-  | 310 | C13H27I | 035599-77-0 | 90   |
| 5    |    | Pentadecane         | 212 | C15H32  | 000629-62-9 | 90   |



Data Path : Z:\HPCHEM1\BNA F\DATA\BF031418\  
Data File : BF103642.D  
Acq On : 14 Mar 2018 15:58  
Operator : SJ/JU  
Sample : J1754-07  
Misc :  
ALS Vial : 7 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
CL-01-031318-D

Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF022218.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

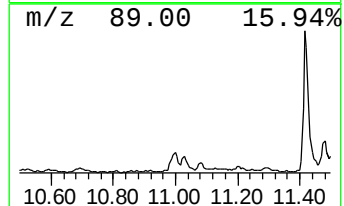
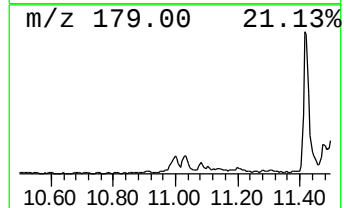
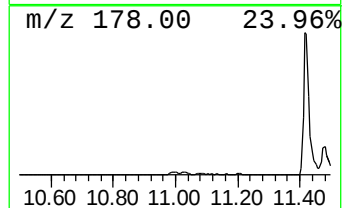
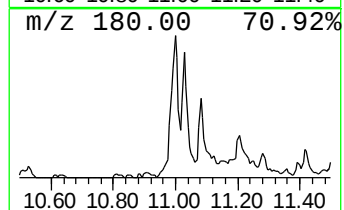
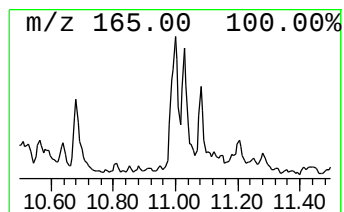
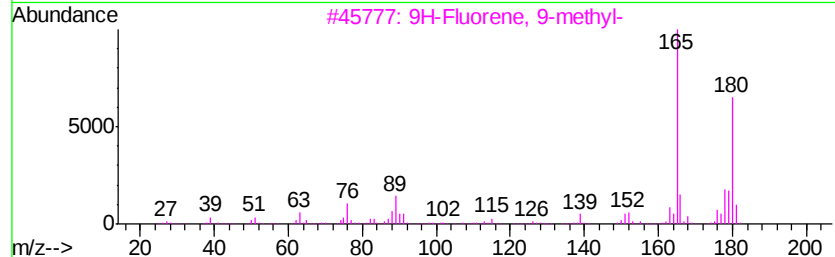
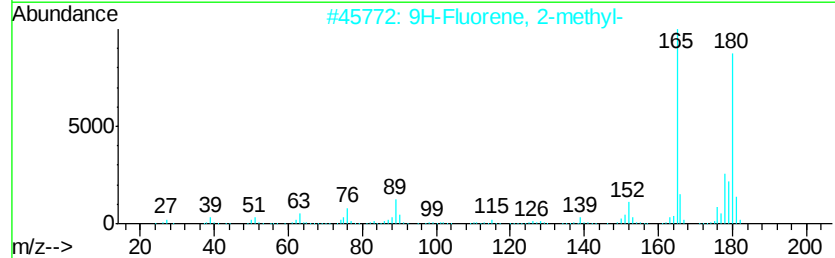
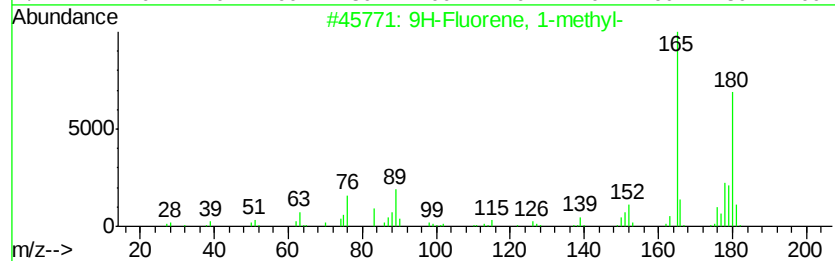
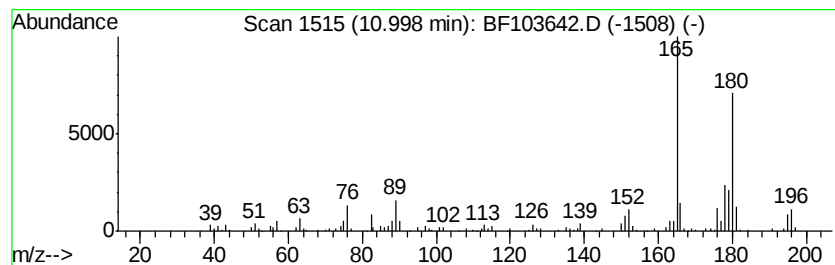
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 11 9H-Fluorene, 1-methyl- Concentration Rank 17

| R.T.  | EstConc | Area   | Relative to ISTD | R.T.  |
|-------|---------|--------|------------------|-------|
| 11.00 | 8.18 ng | 241374 | Phenanthrene-d10 | 11.39 |

| Hit# | of | Tentative ID                        | MW  | MolForm | CAS#        | Qual |
|------|----|-------------------------------------|-----|---------|-------------|------|
| 1    | 5  | 9H-Fluorene, 1-methyl-              | 180 | C14H12  | 001730-37-6 | 97   |
| 2    |    | 9H-Fluorene, 2-methyl-              | 180 | C14H12  | 001430-97-3 | 94   |
| 3    |    | 9H-Fluorene, 9-methyl-              | 180 | C14H12  | 002523-37-7 | 90   |
| 4    |    | 9H-Fluorene, 3-methyl-              | 180 | C14H12  | 002523-39-9 | 89   |
| 5    |    | Benzenethiol, 4-(1,1-dimethyleth... | 180 | C11H16S | 015570-10-2 | 58   |



Data Path : Z:\HPCHEM1\BNA F\DATA\BF031418\  
Data File : BF103642.D  
Acq On : 14 Mar 2018 15:58  
Operator : SJ/JU  
Sample : J1754-07  
Misc :  
ALS Vial : 7 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
CL-01-031318-D

Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF022218.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

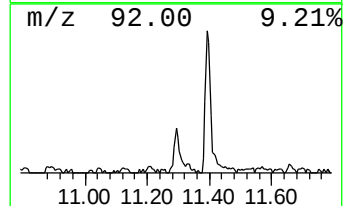
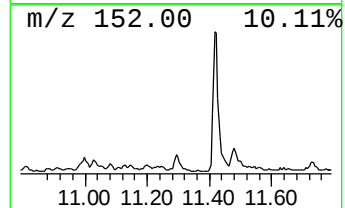
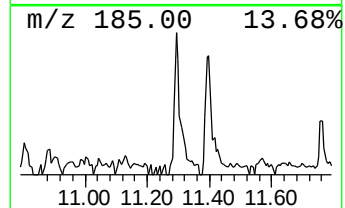
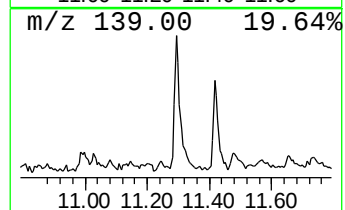
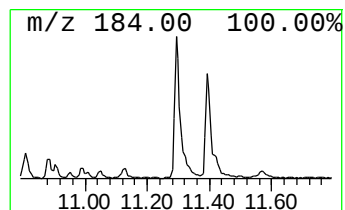
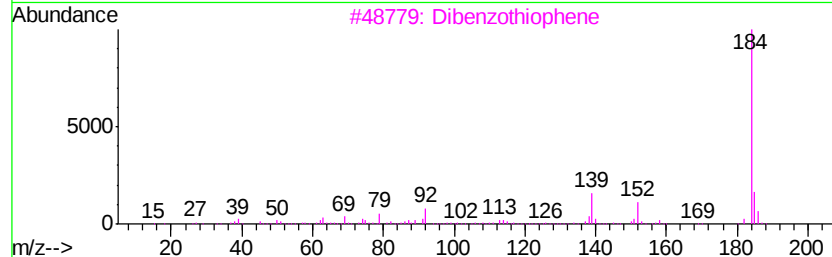
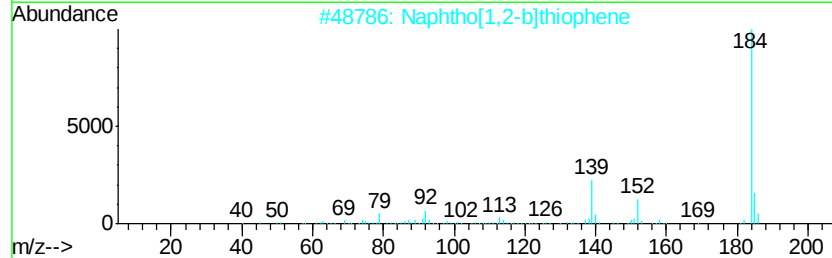
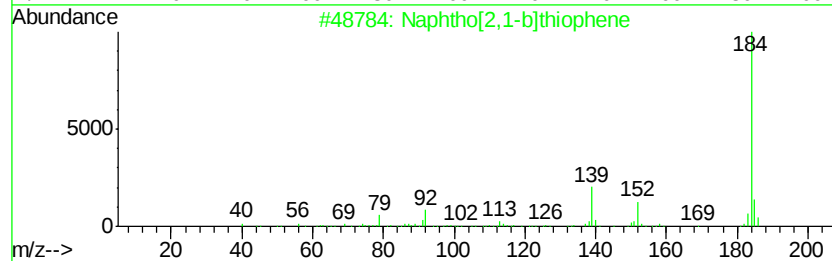
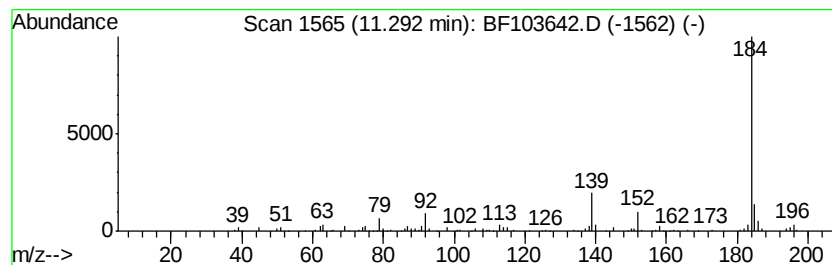
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 12 Naphtho[2,1-b]thiophene Concentration Rank 20

| R.T.  | EstConc | Area   | Relative to ISTD | R.T.  |
|-------|---------|--------|------------------|-------|
| 11.29 | 6.82 ng | 201397 | Phenanthrene-d10 | 11.39 |

| Hit# | of | 5 | Tentative ID              | MW  | MolForm | CAS#        | Qual |
|------|----|---|---------------------------|-----|---------|-------------|------|
| 1    |    |   | Naphtho[2,1-b]thiophene   | 184 | C12H8S  | 000233-02-3 | 93   |
| 2    |    |   | Naphtho[1,2-b]thiophene   | 184 | C12H8S  | 000234-41-3 | 93   |
| 3    |    |   | Dibenzothiophene          | 184 | C12H8S  | 000132-65-0 | 91   |
| 4    |    |   | Azuleno(2,1-b)thiophene   | 184 | C12H8S  | 000248-13-5 | 78   |
| 5    |    |   | 1,1'-Biphenyl, 2-methoxy- | 184 | C13H12O | 000086-26-0 | 53   |



Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF031418\  
Data File : BF103642.D  
Acq On : 14 Mar 2018 15:58  
Operator : SJ/JU  
Sample : J1754-07  
Misc :  
ALS Vial : 7 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
CL-01-031318-D

Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF022218.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

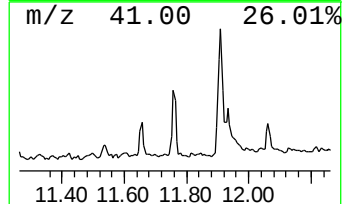
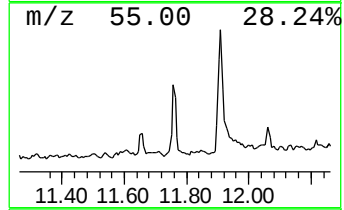
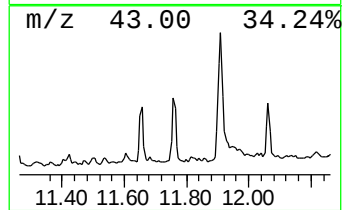
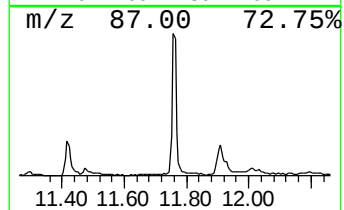
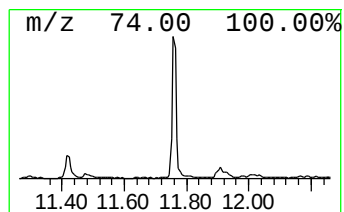
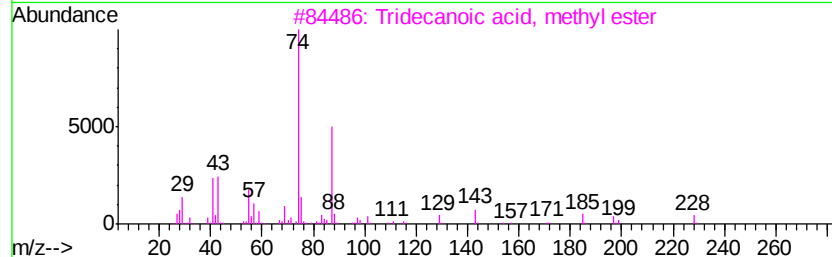
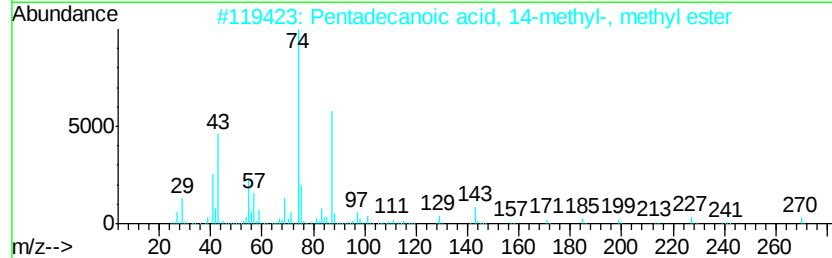
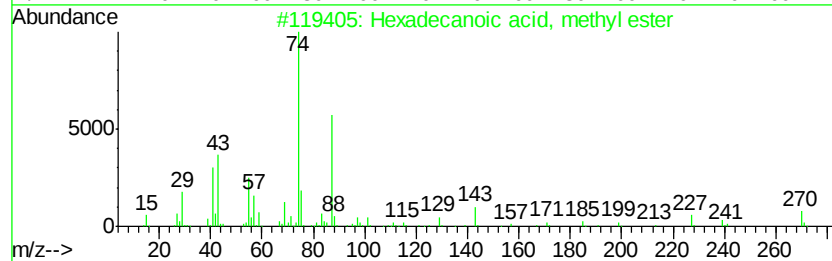
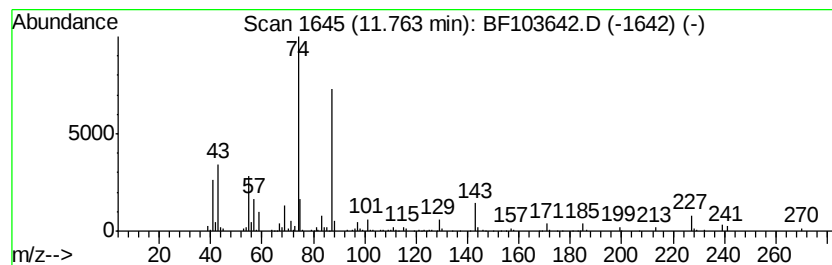
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 13 Hexadecanoic acid, methyl e... Concentration Rank 15

| R.T.  | EstConc | Area   | Relative to ISTD | R.T.  |
|-------|---------|--------|------------------|-------|
| 11.76 | 8.78 ng | 259205 | Phenanthrene-d10 | 11.39 |

| Hit# | of | Tentative ID                        | MW  | MolForm  | CAS#        | Qual |
|------|----|-------------------------------------|-----|----------|-------------|------|
| 1    | 5  | Hexadecanoic acid, methyl ester     | 270 | C17H34O2 | 000112-39-0 | 95   |
| 2    |    | Pentadecanoic acid, 14-methyl-, ... | 270 | C17H34O2 | 005129-60-2 | 91   |
| 3    |    | Tridecanoic acid, methyl ester      | 228 | C14H28O2 | 001731-88-0 | 90   |
| 4    |    | Methyl tetradecanoate               | 242 | C15H30O2 | 000124-10-7 | 90   |
| 5    |    | Dodecanoic acid, methyl ester       | 214 | C13H26O2 | 000111-82-0 | 90   |



Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF031418\  
Data File : BF103642.D  
Acq On : 14 Mar 2018 15:58  
Operator : SJ/JU  
Sample : J1754-07  
Misc :  
ALS Vial : 7 Sample Multiplier: 1

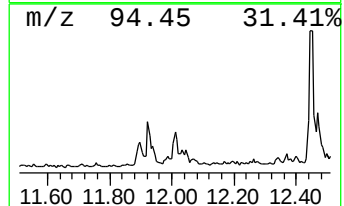
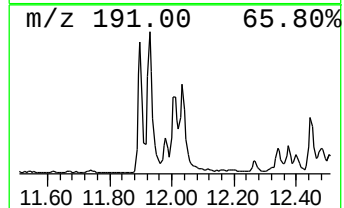
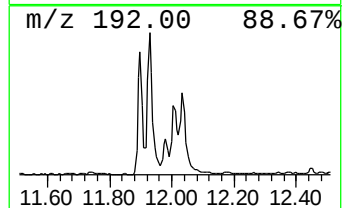
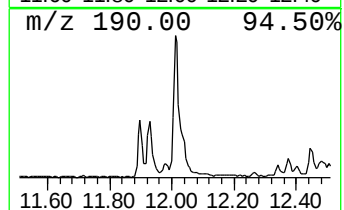
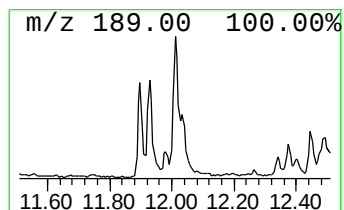
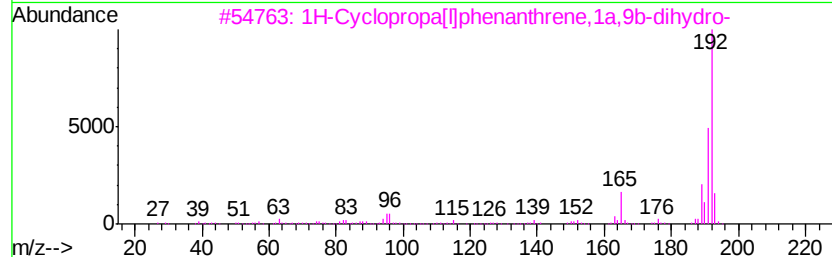
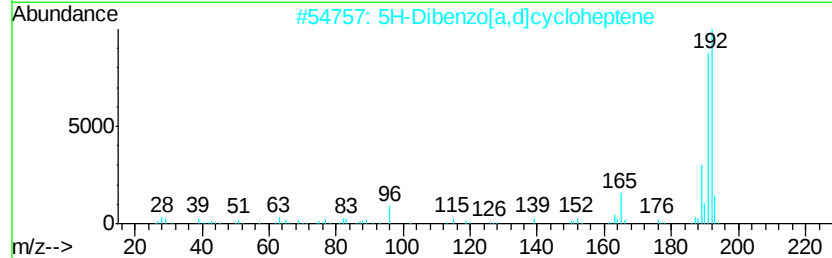
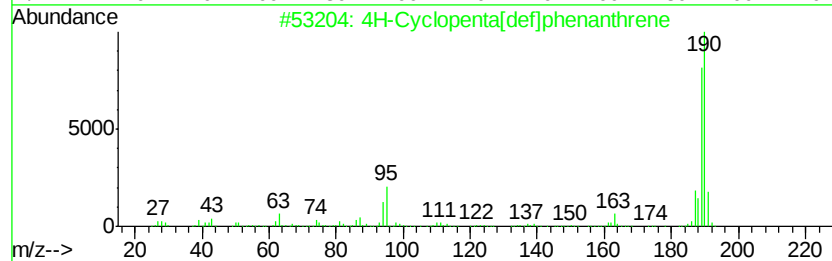
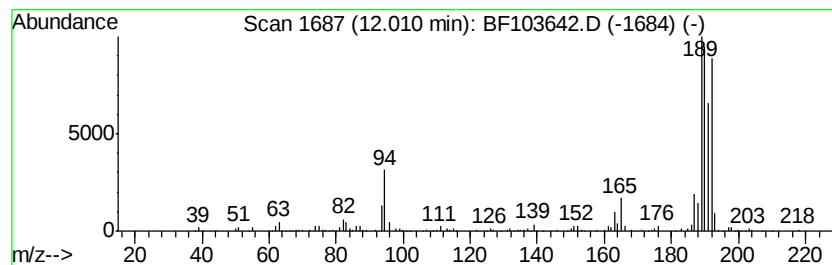
Instrument :  
BNA\_F  
ClientSampleId :  
CL-01-031318-D

Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF022218.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 14 4H-Cyclopenta[def]phenanthrene Concentration Rank 7

| R.T.      | EstConc                              | Area   | Relative to ISTD | R.T.        |      |
|-----------|--------------------------------------|--------|------------------|-------------|------|
| 12.01     | 12.47 ng                             | 368143 | Phenanthrene-d10 | 11.39       |      |
| Hit# of 5 | Tentative ID                         | MW     | MolForm          | CAS#        | Qual |
| 1         | 4H-Cyclopenta[def]phenanthrene       | 190    | C15H10           | 000203-64-5 | 55   |
| 2         | 5H-Dibenzo[a,d]cycloheptene          | 192    | C15H12           | 000256-81-5 | 42   |
| 3         | 1H-Cyclopropa[fl]phenanthrene,1a,... | 192    | C15H12           | 000949-41-7 | 38   |
| 4         | 2-Bromo-5-fluorophenol               | 190    | C6H4BrFO         | 147460-41-1 | 35   |
| 5         | Phenanthrene, 4-methyl-              | 192    | C15H12           | 000832-64-4 | 30   |



Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF031418\  
Data File : BF103642.D  
Acq On : 14 Mar 2018 15:58  
Operator : SJ/JU  
Sample : J1754-07  
Misc :  
ALS Vial : 7 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
CL-01-031318-D

Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF022218.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

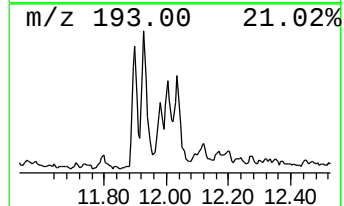
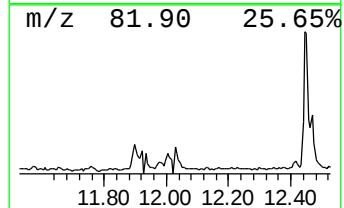
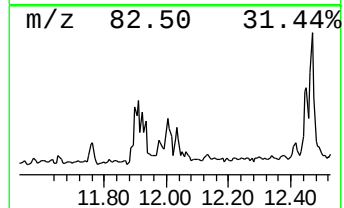
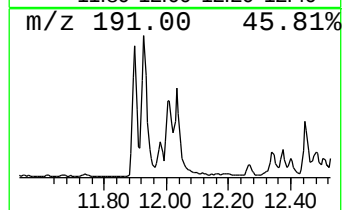
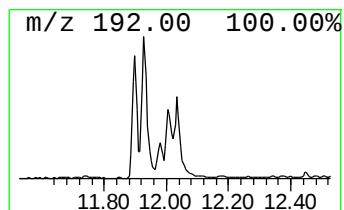
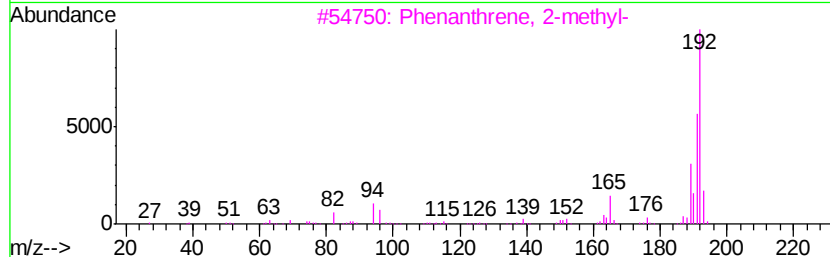
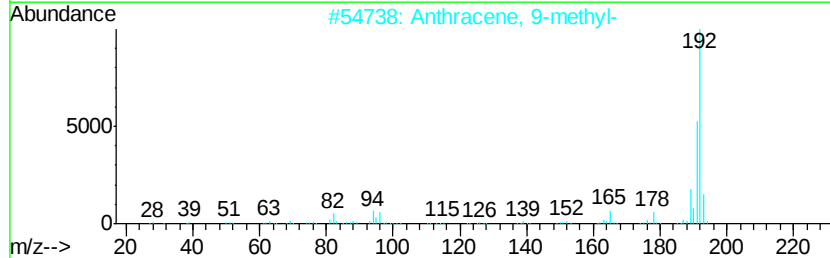
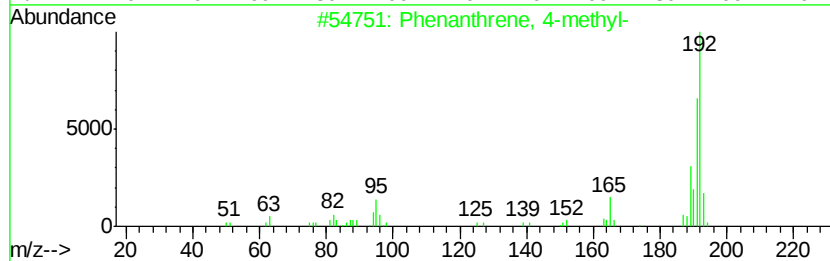
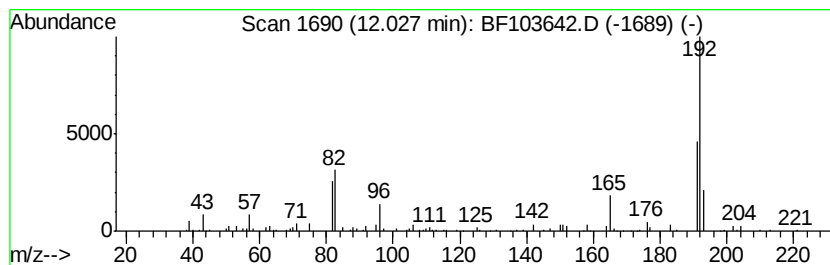
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 15 Phenanthrene, 4-methyl- Concentration Rank 16

| R.T.  | EstConc | Area   | Relative to ISTD | R.T.  |
|-------|---------|--------|------------------|-------|
| 12.03 | 8.70 ng | 256861 | Phenanthrene-d10 | 11.39 |

| Hit# | of | 5 | Tentative ID                            | MW  | MolForm | CAS#        | Qual |
|------|----|---|-----------------------------------------|-----|---------|-------------|------|
| 1    |    |   | Phenanthrene, 4-methyl-                 | 192 | C15H12  | 000832-64-4 | 94   |
| 2    |    |   | Anthracene, 9-methyl-                   | 192 | C15H12  | 000779-02-2 | 94   |
| 3    |    |   | Phenanthrene, 2-methyl-                 | 192 | C15H12  | 002531-84-2 | 91   |
| 4    |    |   | 1H-Cyclopropa[1,1]phenanthrene, 1a, ... | 192 | C15H12  | 000949-41-7 | 91   |
| 5    |    |   | Anthracene, 1-methyl-                   | 192 | C15H12  | 000610-48-0 | 91   |



Data Path : Z:\HPCHEM1\BNA F\DATA\BF031418\  
Data File : BF103642.D  
Acq On : 14 Mar 2018 15:58  
Operator : SJ/JU  
Sample : J1754-07  
Misc :  
ALS Vial : 7 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
CL-01-031318-D

Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF022218.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

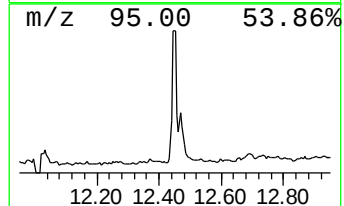
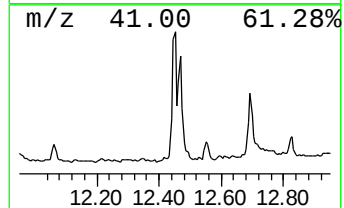
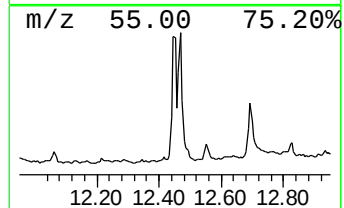
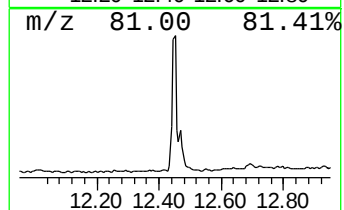
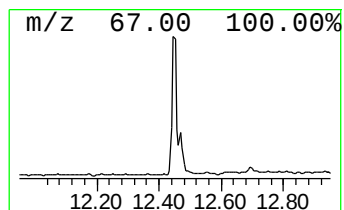
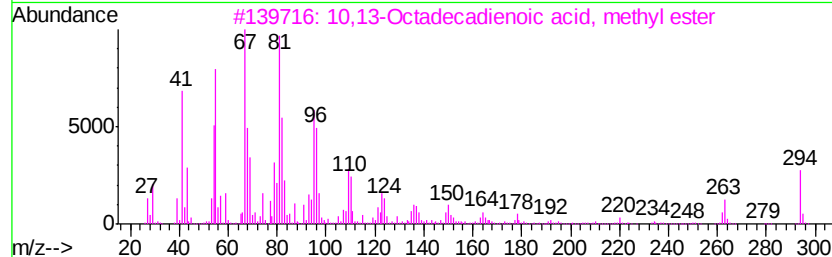
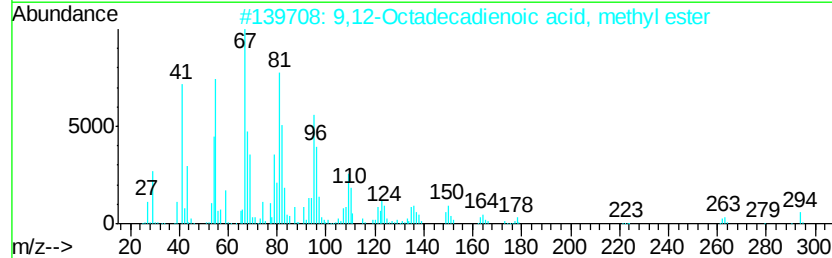
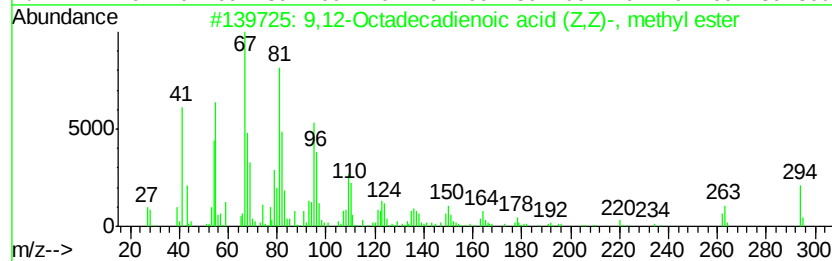
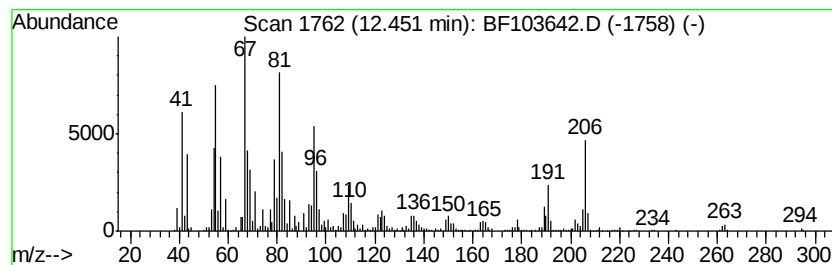
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 16 9,12-Octadecadienoic acid (... Concentration Rank 3

| R.T.  | EstConc  | Area    | Relative to ISTD | R.T.  |
|-------|----------|---------|------------------|-------|
| 12.45 | 39.54 ng | 1167030 | Phenanthrene-d10 | 11.39 |

| Hit# | of | 5 | Tentative ID                        | MW  | MolForm  | CAS#         | Qual |
|------|----|---|-------------------------------------|-----|----------|--------------|------|
| 1    |    |   | 9,12-Octadecadienoic acid (Z,Z)-... | 294 | C19H34O2 | 000112-63-0  | 99   |
| 2    |    |   | 9,12-Octadecadienoic acid, methy... | 294 | C19H34O2 | 002462-85-3  | 99   |
| 3    |    |   | 10,13-Octadecadienoic acid, meth... | 294 | C19H34O2 | 056554-62-2  | 99   |
| 4    |    |   | Methyl 9-cis,11-trans-octadecadi... | 294 | C19H34O2 | 1000336-44-0 | 99   |
| 5    |    |   | 9,15-Octadecadienoic acid, methy... | 294 | C19H34O2 | 017309-05-6  | 99   |



Data Path : Z:\HPCHEM1\BNA F\DATA\BF031418\  
Data File : BF103642.D  
Acq On : 14 Mar 2018 15:58  
Operator : SJ/JU  
Sample : J1754-07  
Misc :  
ALS Vial : 7 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
CL-01-031318-D

Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF022218.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

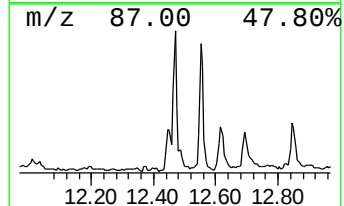
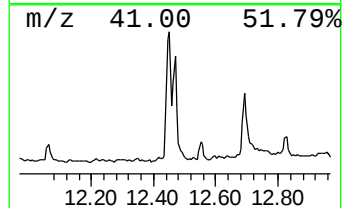
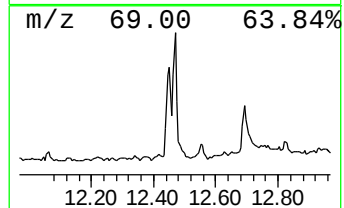
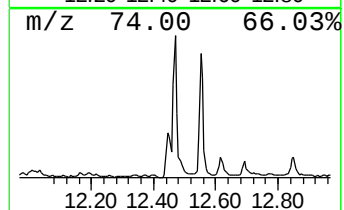
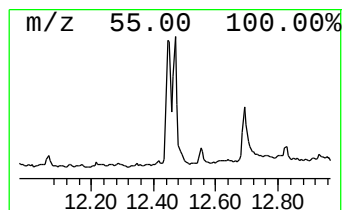
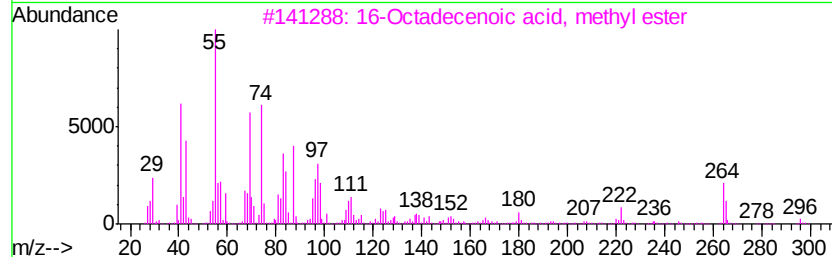
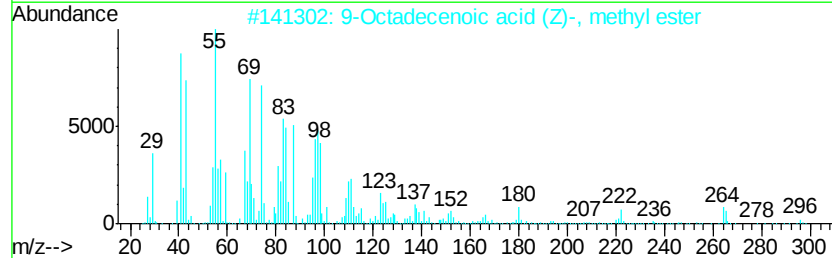
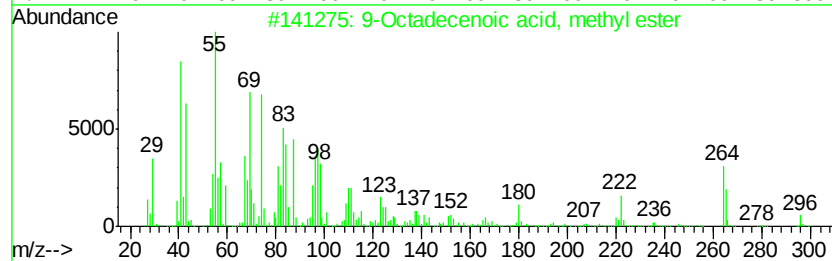
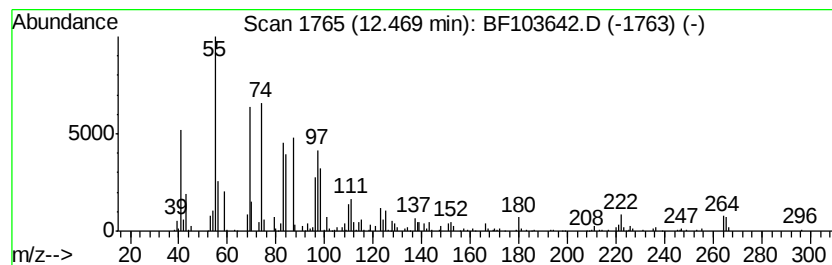
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 17 9-Octadecenoic acid, methyl... Concentration Rank 4

| R.T.  | EstConc  | Area   | Relative to ISTD | R.T.  |
|-------|----------|--------|------------------|-------|
| 12.47 | 29.38 ng | 867256 | Phenanthrene-d10 | 11.39 |

| Hit# | of | Tentative ID                        | MW  | MolForm  | CAS#         | Qual |
|------|----|-------------------------------------|-----|----------|--------------|------|
| 1    | 5  | 9-Octadecenoic acid, methyl ester   | 296 | C19H36O2 | 002462-84-2  | 94   |
| 2    |    | 9-Octadecenoic acid (Z)-, methyl... | 296 | C19H36O2 | 000112-62-9  | 94   |
| 3    |    | 16-Octadecenoic acid, methyl ester  | 296 | C19H36O2 | 056554-49-5  | 91   |
| 4    |    | 14-Octadecenoic acid, methyl ester  | 296 | C19H36O2 | 056554-48-4  | 91   |
| 5    |    | cis-13-Octadecenoic acid, methyl... | 296 | C19H36O2 | 1000333-58-3 | 91   |



Data Path : Z:\HPCHEM1\BNA F\DATA\BF031418\  
Data File : BF103642.D  
Acq On : 14 Mar 2018 15:58  
Operator : SJ/JU  
Sample : J1754-07  
Misc :  
ALS Vial : 7 Sample Multiplier: 1

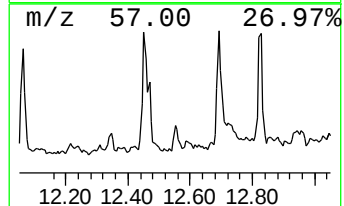
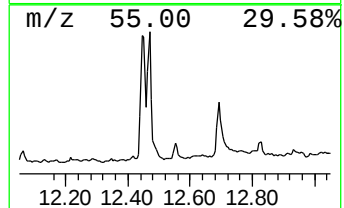
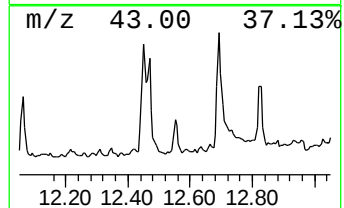
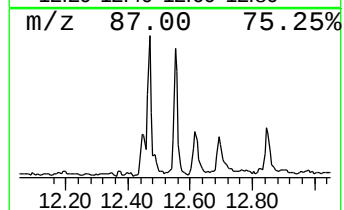
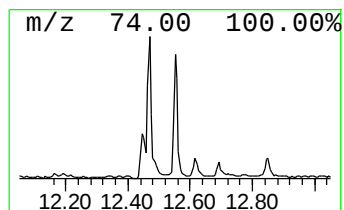
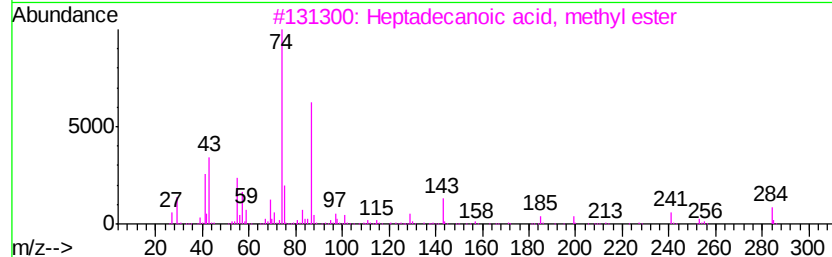
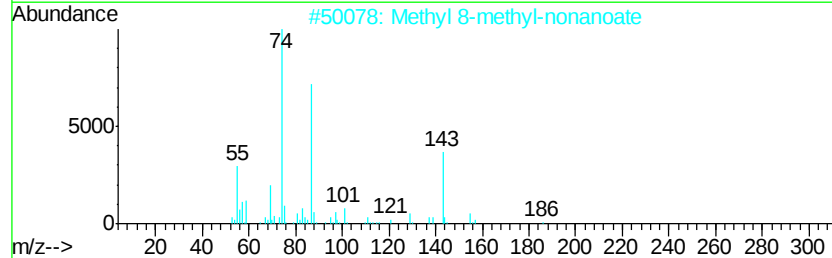
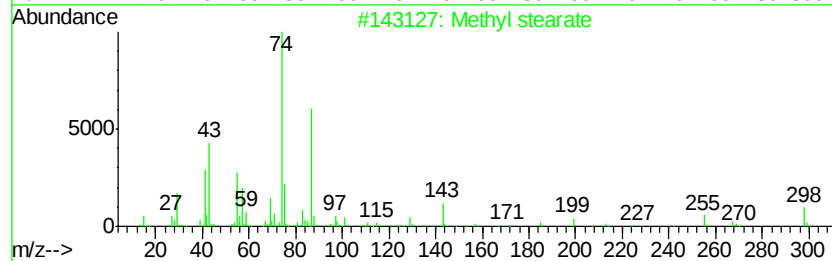
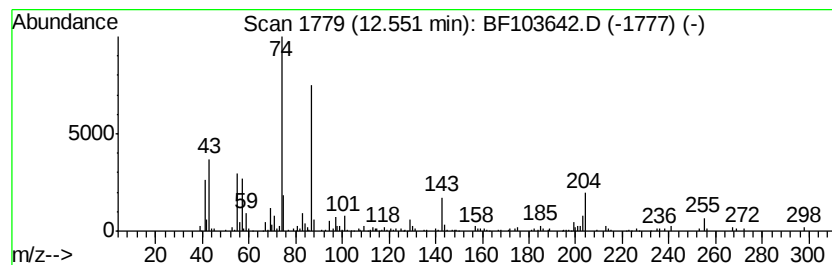
Instrument :  
BNA\_F  
ClientSampleId :  
CL-01-031318-D

Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF022218.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 18 Methyl stearate Concentration Rank 19

| R.T.  | EstConc | Area   | Relative to ISTD                 |     | R.T.     |              |      |
|-------|---------|--------|----------------------------------|-----|----------|--------------|------|
| 12.55 | 7.16 ng | 211236 | Phenanthrene-d10                 |     | 11.39    |              |      |
| Hit#  | of      | 5      | Tentative ID                     | MW  | MolForm  | CAS#         | Qual |
| 1     |         |        | Methyl stearate                  | 298 | C19H38O2 | 000112-61-8  | 95   |
| 2     |         |        | Methyl 8-methyl-nonanoate        | 186 | C11H22O2 | 1000336-43-6 | 81   |
| 3     |         |        | Heptadecanoic acid, methyl ester | 284 | C18H36O2 | 001731-92-6  | 80   |
| 4     |         |        | Pentadecanoic acid, methyl ester | 256 | C16H32O2 | 007132-64-1  | 74   |
| 5     |         |        | Decanoic acid, methyl ester      | 186 | C11H22O2 | 000110-42-9  | 72   |



Data Path : Z:\HPCHEM1\BNA F\DATA\BF031418\  
Data File : BF103642.D  
Acq On : 14 Mar 2018 15:58  
Operator : SJ/JU  
Sample : J1754-07  
Misc :  
ALS Vial : 7 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
CL-01-031318-D

Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF022218.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

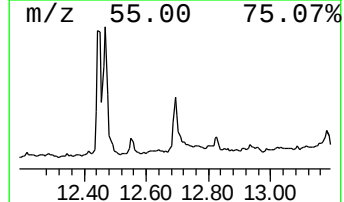
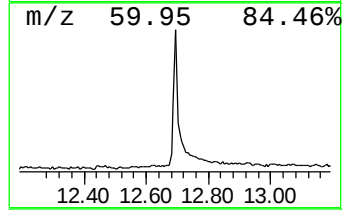
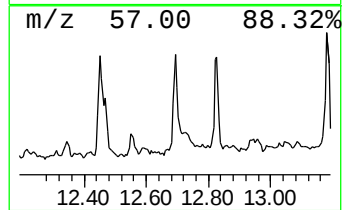
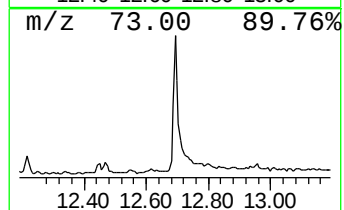
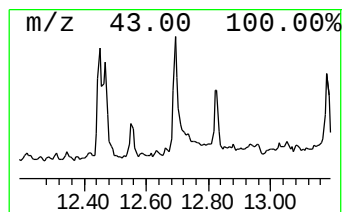
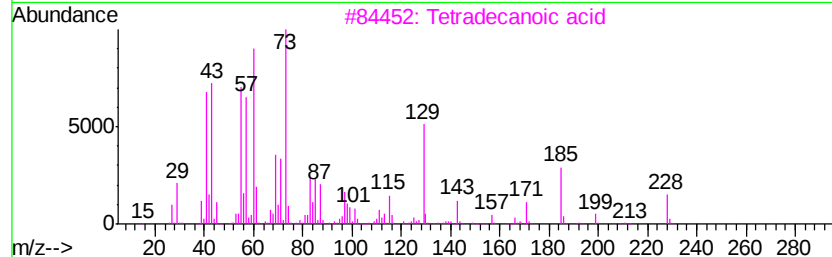
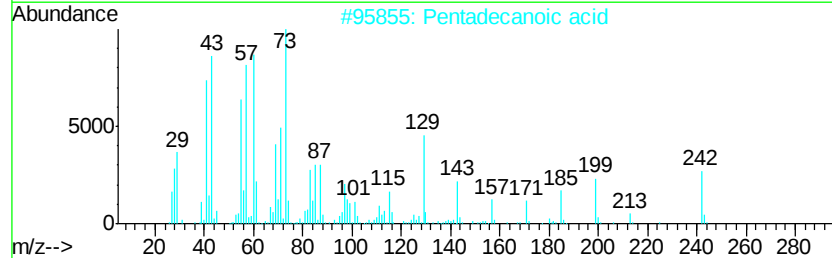
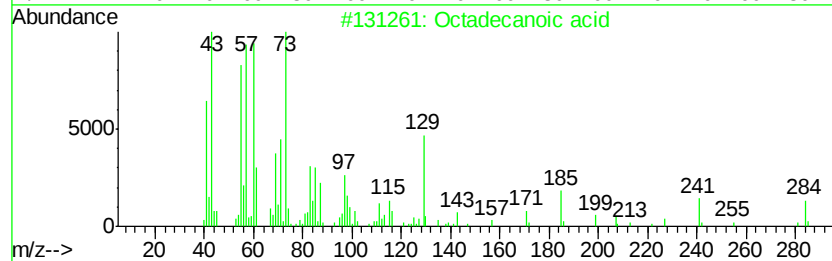
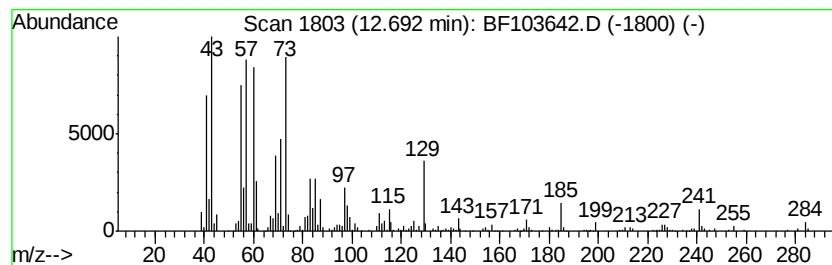
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 19 Octadecanoic acid Concentration Rank 6

| R.T.  | EstConc  | Area   | Relative to ISTD | R.T.  |
|-------|----------|--------|------------------|-------|
| 12.69 | 16.49 ng | 486614 | Phenanthrene-d10 | 11.39 |

| Hit# | of | Tentative ID        | MW  | MolForm  | CAS#        | Qual |
|------|----|---------------------|-----|----------|-------------|------|
| 1    | 5  | Octadecanoic acid   | 284 | C18H36O2 | 000057-11-4 | 99   |
| 2    |    | Pentadecanoic acid  | 242 | C15H30O2 | 001002-84-2 | 93   |
| 3    |    | Tetradecanoic acid  | 228 | C14H28O2 | 000544-63-8 | 92   |
| 4    |    | n-Hexadecanoic acid | 256 | C16H32O2 | 000057-10-3 | 80   |
| 5    |    | n-Decanoic acid     | 172 | C10H20O2 | 000334-48-5 | 62   |



Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF031418\  
Data File : BF103642.D  
Acq On : 14 Mar 2018 15:58  
Operator : SJ/JU  
Sample : J1754-07  
Misc :  
ALS Vial : 7 Sample Multiplier: 1

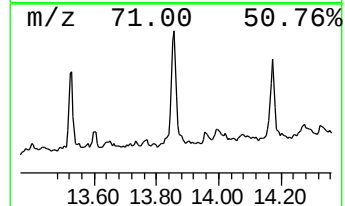
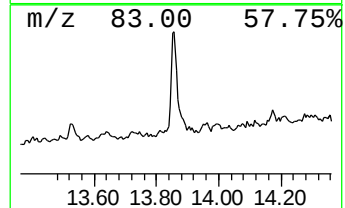
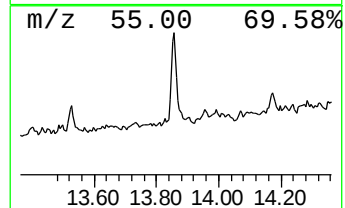
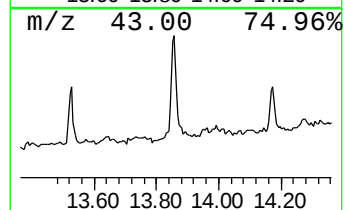
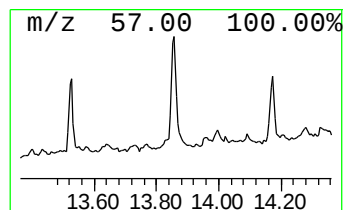
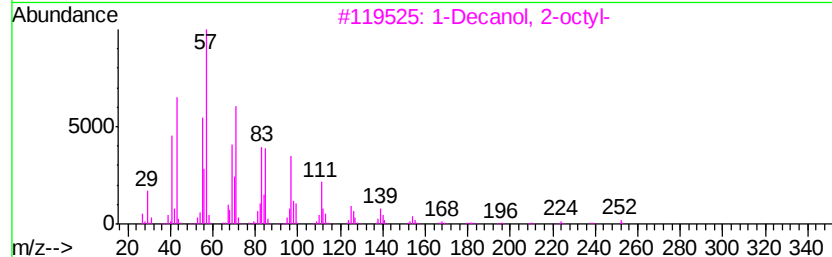
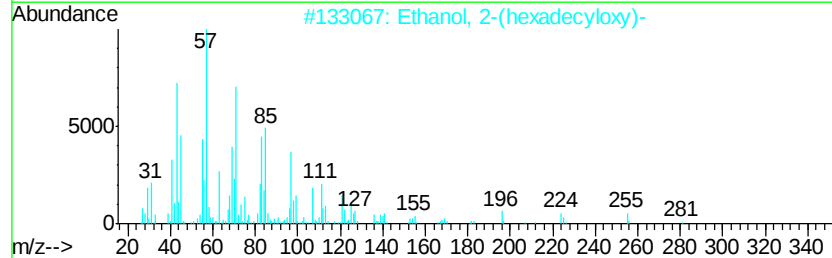
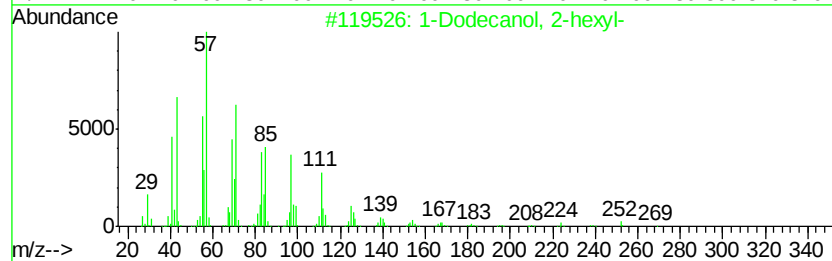
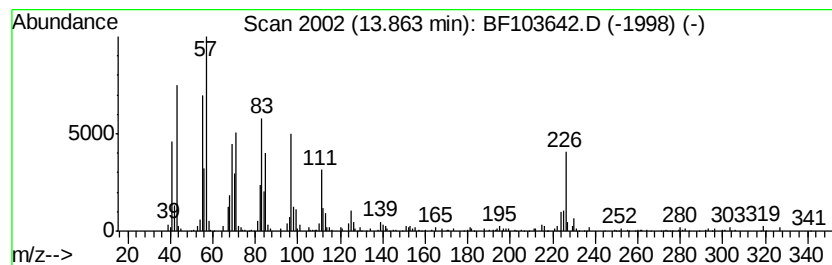
Instrument :  
BNA\_F  
ClientSampleId :  
CL-01-031318-D

Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF022218.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 20 1-Dodecanol, 2-hexyl- Concentration Rank 12

| R.T.      | EstConc                    | Area   | Relative to ISTD | R.T.        |      |
|-----------|----------------------------|--------|------------------|-------------|------|
| 13.86     | 9.74 ng                    | 398286 | Chrysene-d12     | 14.06       |      |
| Hit# of 5 | Tentative ID               | MW     | MolForm          | CAS#        | Qual |
| 1         | 1-Dodecanol, 2-hexyl-      | 270    | C18H38O          | 110225-00-8 | 91   |
| 2         | Ethanol, 2-(hexadecyloxy)- | 286    | C18H38O2         | 002136-71-2 | 91   |
| 3         | 1-Decanol, 2-octyl-        | 270    | C18H38O          | 045235-48-1 | 91   |
| 4         | 1-Decanol, 2-hexyl-        | 242    | C16H34O          | 002425-77-6 | 91   |
| 5         | 5-Eicosene, (E)-           | 280    | C20H40           | 074685-30-6 | 90   |



Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF031418\  
 Data File : BF103642.D  
 Acq On : 14 Mar 2018 15:58  
 Operator : SJ/JU  
 Sample : J1754-07  
 Misc :  
 ALS Vial : 7 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 CL-01-031318-D

Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF022218.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 |
| (1R)-2,6,6-Trimet... | 6.12  | 9.8 ng  |       | 336932   | 1                     | 6.86  | 689293 | 20.0 |
| unknown6.63          | 6.63  | 66.2 ng |       | 2281420  | 1                     | 6.86  | 689293 | 20.0 |
| Naphthalene, 2-me... | 8.95  | 19.6 ng |       | 795442   | 2                     | 8.14  | 809589 | 20.0 |
| Naphthalene, 1,5-... | 9.48  | 11.3 ng |       | 511024   | 3                     | 9.90  | 907985 | 20.0 |
| Naphthalene, 1,6-... | 9.55  | 12.0 ng |       | 545182   | 3                     | 9.90  | 907985 | 20.0 |
| Naphthalene, 1,7-... | 9.58  | 8.8 ng  |       | 400453   | 3                     | 9.90  | 907985 | 20.0 |
| Naphthalene, 1,4-... | 9.67  | 7.7 ng  |       | 347394   | 3                     | 9.90  | 907985 | 20.0 |
| Hexadecane           | 10.30 | 8.9 ng  |       | 402789   | 3                     | 9.90  | 907985 | 20.0 |
| Tridecane, 7-hexyl-  | 10.78 | 9.9 ng  |       | 293555   | 4                     | 11.39 | 590333 | 20.0 |
| 9H-Fluorene, 1-me... | 11.00 | 8.2 ng  |       | 241374   | 4                     | 11.39 | 590333 | 20.0 |
| Naphtho[2,1-b]thi... | 11.29 | 6.8 ng  |       | 201397   | 4                     | 11.39 | 590333 | 20.0 |
| Hexadecanoic acid... | 11.76 | 8.8 ng  |       | 259205   | 4                     | 11.39 | 590333 | 20.0 |
| 4H-Cyclopenta[def... | 12.01 | 12.5 ng |       | 368143   | 4                     | 11.39 | 590333 | 20.0 |
| Phenanthrene, 4-m... | 12.03 | 8.7 ng  |       | 256861   | 4                     | 11.39 | 590333 | 20.0 |
| 9,12-Octadecadien... | 12.45 | 39.5 ng |       | 1167030  | 4                     | 11.39 | 590333 | 20.0 |
| 9-Octadecenoic ac... | 12.47 | 29.4 ng |       | 867256   | 4                     | 11.39 | 590333 | 20.0 |
| Methyl stearate      | 12.55 | 7.2 ng  |       | 211236   | 4                     | 11.39 | 590333 | 20.0 |
| Octadecanoic acid    | 12.69 | 16.5 ng |       | 486614   | 4                     | 11.39 | 590333 | 20.0 |
| 1-Dodecanol, 2-he... | 13.86 | 9.7 ng  |       | 398286   | 5                     | 14.06 | 817863 | 20.0 |