

Data Path : Z:\SVOASRV\HPCHEM1\BNA\_F\DATA\BF011819\  
 Data File : BF112130.D  
 Acq On : 18 Jan 2019 17:54  
 Operator : JU/SJ  
 Sample : K1191-04 2X  
 Misc :  
 ALS Vial : 6 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 SITE4-EAST

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-BF011619.M  
 Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

Signal : TIC

| peak # | R.T. min | first scan | max scan | last scan | PK TY | peak height | corr. area | corr. % max. | % of total |
|--------|----------|------------|----------|-----------|-------|-------------|------------|--------------|------------|
| 1      | 4.440    | 396        | 400      | 407       | rBV   | 58536       | 72686      | 2.01%        | 0.170%     |
| 2      | 5.057    | 501        | 505      | 512       | rBV   | 519519      | 558599     | 15.47%       | 1.306%     |
| 3      | 5.487    | 574        | 578      | 591       | rVB   | 828852      | 788936     | 21.85%       | 1.845%     |
| 4      | 6.492    | 746        | 749      | 765       | rBV   | 2501969     | 2549058    | 70.61%       | 5.960%     |
| 5      | 6.628    | 768        | 772      | 779       | rVV   | 2410678     | 1945393    | 53.89%       | 4.549%     |
| 6      | 6.857    | 807        | 811      | 818       | rBV   | 1679914     | 1514162    | 41.94%       | 3.540%     |
| 7      | 6.916    | 818        | 821      | 829       | rVB2  | 52837       | 59051      | 1.64%        | 0.138%     |
| 8      | 7.010    | 833        | 837      | 841       | rBV   | 2717085     | 2208635    | 61.18%       | 5.164%     |
| 9      | 7.410    | 897        | 905      | 910       | rBV   | 1818899     | 1678277    | 46.49%       | 3.924%     |
| 10     | 7.451    | 910        | 912      | 916       | rVB   | 55723       | 50880      | 1.41%        | 0.119%     |
| 11     | 8.139    | 1023       | 1029     | 1032      | rBV   | 2227946     | 2184105    | 60.50%       | 5.107%     |
| 12     | 8.198    | 1036       | 1039     | 1042      | rVB   | 48807       | 53221      | 1.47%        | 0.124%     |
| 13     | 8.434    | 1074       | 1079     | 1085      | rBV6  | 38173       | 58166      | 1.61%        | 0.136%     |
| 14     | 8.557    | 1097       | 1100     | 1103      | rBV   | 59273       | 58447      | 1.62%        | 0.137%     |
| 15     | 8.728    | 1126       | 1129     | 1133      | rBV   | 214458      | 174029     | 4.82%        | 0.407%     |
| 16     | 8.851    | 1148       | 1150     | 1153      | rVB   | 76720       | 57807      | 1.60%        | 0.135%     |
| 17     | 8.957    | 1164       | 1168     | 1171      | rVB2  | 58342       | 77144      | 2.14%        | 0.180%     |
| 18     | 9.092    | 1187       | 1191     | 1194      | rVB3  | 47179       | 60267      | 1.67%        | 0.141%     |
| 19     | 9.157    | 1200       | 1202     | 1207      | rBV3  | 68535       | 66945      | 1.85%        | 0.157%     |
| 20     | 9.210    | 1207       | 1211     | 1214      | rBV   | 4441921     | 3610108    | 100.00%      | 8.441%     |
| 21     | 9.292    | 1221       | 1225     | 1228      | rBV   | 314908      | 285362     | 7.90%        | 0.667%     |
| 22     | 9.328    | 1228       | 1231     | 1235      | rVB   | 259654      | 228635     | 6.33%        | 0.535%     |
| 23     | 9.480    | 1252       | 1257     | 1261      | rVB3  | 51213       | 72291      | 2.00%        | 0.169%     |
| 24     | 9.551    | 1266       | 1269     | 1271      | rVV   | 104093      | 105667     | 2.93%        | 0.247%     |
| 25     | 9.575    | 1271       | 1273     | 1275      | rVV3  | 67662       | 58499      | 1.62%        | 0.137%     |
| 26     | 9.604    | 1275       | 1278     | 1282      | rVV2  | 300844      | 354434     | 9.82%        | 0.829%     |
| 27     | 9.639    | 1282       | 1284     | 1286      | rVV2  | 65211       | 56640      | 1.57%        | 0.132%     |
| 28     | 9.669    | 1286       | 1289     | 1292      | rVV2  | 73708       | 72394      | 2.01%        | 0.169%     |
| 29     | 9.710    | 1293       | 1296     | 1299      | rVB   | 180410      | 164087     | 4.55%        | 0.384%     |
| 30     | 9.751    | 1301       | 1303     | 1308      | rBV2  | 49791       | 64037      | 1.77%        | 0.150%     |
| 31     | 9.822    | 1308       | 1315     | 1318      | rBV   | 391522      | 334570     | 9.27%        | 0.782%     |
| 32     | 9.892    | 1323       | 1327     | 1330      | rVV2  | 2819728     | 2431166    | 67.34%       | 5.684%     |
| 33     | 9.922    | 1330       | 1332     | 1335      | rVB   | 131627      | 118360     | 3.28%        | 0.277%     |
| 34     | 9.998    | 1342       | 1345     | 1350      | rVB   | 53602       | 58763      | 1.63%        | 0.137%     |

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 ALS Vial : 6 Sample Multiplier: 1

Instrument :  
 BNA\_F  
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 SITE4-EAST

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-BF011619.M  
 Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

|    |        |      |      |      |      |         |         |        |        |
|----|--------|------|------|------|------|---------|---------|--------|--------|
| 35 | 10.051 | 1351 | 1354 | 1357 | rBV4 | 55214   | 72530   | 2.01%  | 0.170% |
| 36 | 10.098 | 1357 | 1362 | 1366 | rVB2 | 126354  | 181458  | 5.03%  | 0.424% |
| 37 | 10.145 | 1366 | 1370 | 1374 | rBV4 | 85865   | 123148  | 3.41%  | 0.288% |
| 38 | 10.210 | 1378 | 1381 | 1382 | rBV  | 66375   | 69989   | 1.94%  | 0.164% |
| 39 | 10.322 | 1397 | 1400 | 1403 | rVB  | 447790  | 344904  | 9.55%  | 0.806% |
| 40 | 10.439 | 1416 | 1420 | 1422 | rBV2 | 149154  | 147335  | 4.08%  | 0.344% |
| 41 | 10.469 | 1422 | 1425 | 1430 | rVV2 | 213181  | 222705  | 6.17%  | 0.521% |
| 42 | 10.545 | 1432 | 1438 | 1443 | rVV  | 151116  | 241113  | 6.68%  | 0.564% |
| 43 | 10.592 | 1444 | 1446 | 1450 | rVB2 | 75672   | 80495   | 2.23%  | 0.188% |
| 44 | 10.680 | 1459 | 1461 | 1464 | rVB3 | 105761  | 89776   | 2.49%  | 0.210% |
| 45 | 10.792 | 1477 | 1480 | 1482 | rBV  | 472730  | 472727  | 13.09% | 1.105% |
| 46 | 10.863 | 1489 | 1492 | 1494 | rBV  | 284088  | 246422  | 6.83%  | 0.576% |
| 47 | 10.892 | 1494 | 1497 | 1500 | rVV2 | 275489  | 348627  | 9.66%  | 0.815% |
| 48 | 10.927 | 1500 | 1503 | 1506 | rVV2 | 338402  | 345816  | 9.58%  | 0.809% |
| 49 | 10.951 | 1506 | 1507 | 1510 | rVV  | 174522  | 148415  | 4.11%  | 0.347% |
| 50 | 10.986 | 1510 | 1513 | 1516 | rVV3 | 167484  | 265987  | 7.37%  | 0.622% |
| 51 | 11.039 | 1520 | 1522 | 1526 | rVV3 | 229232  | 284486  | 7.88%  | 0.665% |
| 52 | 11.075 | 1526 | 1528 | 1531 | rVV  | 294034  | 290844  | 8.06%  | 0.680% |
| 53 | 11.116 | 1533 | 1535 | 1541 | rVV3 | 193558  | 251015  | 6.95%  | 0.587% |
| 54 | 11.180 | 1544 | 1546 | 1550 | rVV3 | 74316   | 77258   | 2.14%  | 0.181% |
| 55 | 11.239 | 1553 | 1556 | 1559 | rVV  | 465935  | 458846  | 12.71% | 1.073% |
| 56 | 11.274 | 1559 | 1562 | 1567 | rVB2 | 300064  | 324318  | 8.98%  | 0.758% |
| 57 | 11.380 | 1576 | 1580 | 1582 | rBV  | 2683635 | 2443270 | 67.68% | 5.713% |
| 58 | 11.404 | 1582 | 1584 | 1587 | rVV  | 1186642 | 957800  | 26.53% | 2.239% |
| 59 | 11.451 | 1590 | 1592 | 1596 | rVB  | 244153  | 221735  | 6.14%  | 0.518% |
| 60 | 11.551 | 1607 | 1609 | 1613 | rVB3 | 81326   | 81367   | 2.25%  | 0.190% |
| 61 | 11.610 | 1616 | 1619 | 1620 | rBV  | 80314   | 73247   | 2.03%  | 0.171% |
| 62 | 11.669 | 1626 | 1629 | 1632 | rBV  | 400618  | 313940  | 8.70%  | 0.734% |
| 63 | 11.833 | 1655 | 1657 | 1659 | rBV2 | 66317   | 62840   | 1.74%  | 0.147% |
| 64 | 11.880 | 1662 | 1665 | 1667 | rVV  | 130711  | 127663  | 3.54%  | 0.298% |
| 65 | 11.910 | 1667 | 1670 | 1672 | rVB  | 180048  | 168571  | 4.67%  | 0.394% |
| 66 | 11.992 | 1681 | 1684 | 1686 | rBV  | 183719  | 177426  | 4.91%  | 0.415% |
| 67 | 12.016 | 1686 | 1688 | 1691 | rVB  | 137776  | 119009  | 3.30%  | 0.278% |
| 68 | 12.074 | 1696 | 1698 | 1701 | rBV  | 328608  | 260596  | 7.22%  | 0.609% |
| 69 | 12.174 | 1712 | 1715 | 1717 | rBV2 | 114897  | 117079  | 3.24%  | 0.274% |
| 70 | 12.357 | 1744 | 1746 | 1748 | rBV  | 178336  | 156260  | 4.33%  | 0.365% |
| 71 | 12.463 | 1761 | 1764 | 1767 | rBV  | 359714  | 363606  | 10.07% | 0.850% |

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Sample : K1191-04 2X  
Misc :  
ALS Vial : 6 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
SITE4-EAST

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-BF011619.M  
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

|    |        |      |      |      |      |         |         |        |        |
|----|--------|------|------|------|------|---------|---------|--------|--------|
| 72 | 12.592 | 1783 | 1786 | 1792 | rBV  | 1053704 | 942396  | 26.10% | 2.203% |
| 73 | 12.821 | 1820 | 1825 | 1830 | rBV2 | 969448  | 1464793 | 40.57% | 3.425% |
| 74 | 12.963 | 1845 | 1849 | 1856 | rBV  | 3471844 | 3412405 | 94.52% | 7.979% |
| 75 | 13.192 | 1886 | 1888 | 1891 | rBV2 | 295281  | 287892  | 7.97%  | 0.673% |
| 76 | 14.021 | 2026 | 2029 | 2032 | rVB2 | 1768136 | 1679679 | 46.53% | 3.927% |
| 77 | 15.504 | 2278 | 2281 | 2290 | rVB2 | 1226351 | 2018551 | 55.91% | 4.720% |

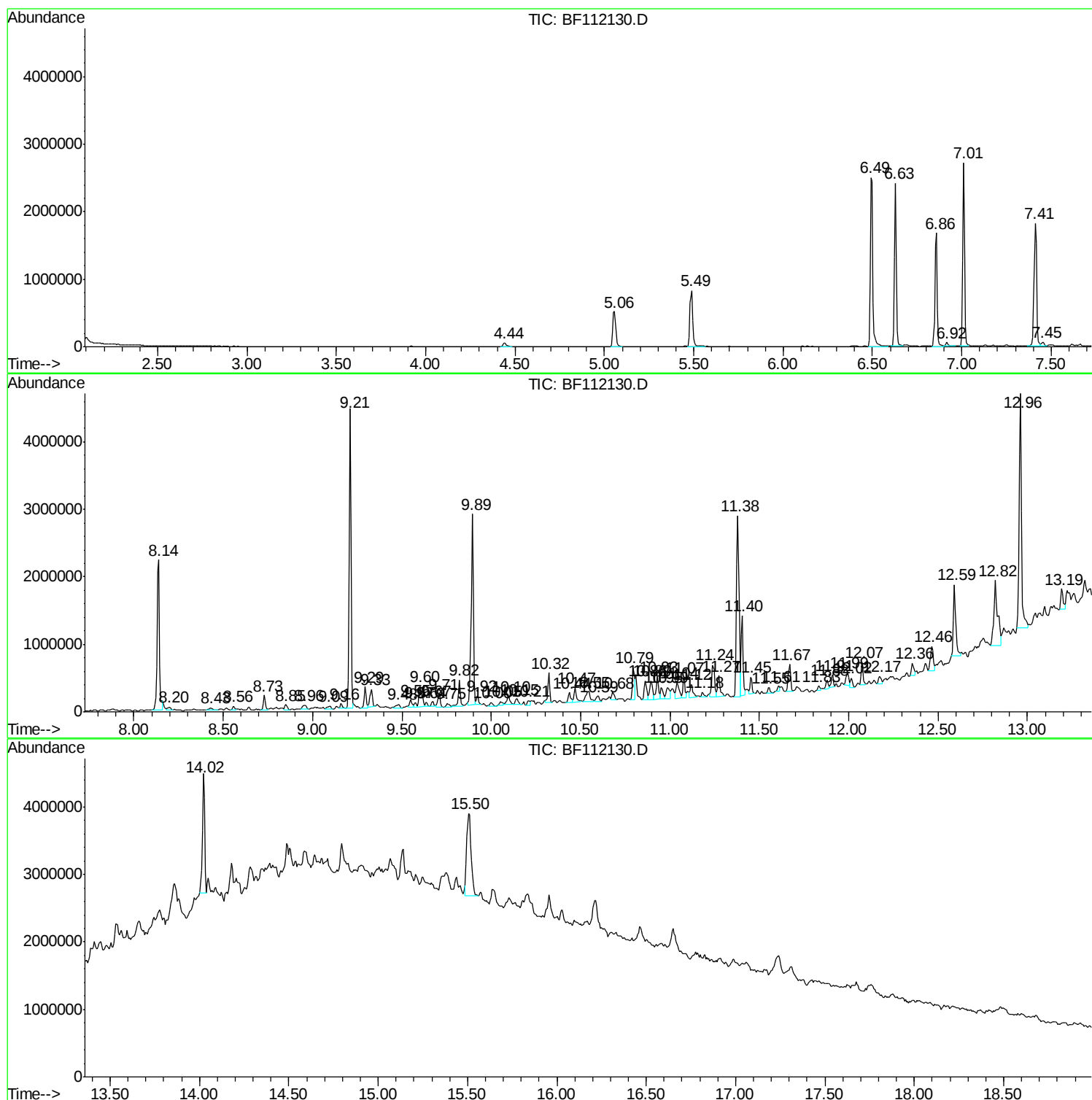
Sum of corrected areas: 42769160

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF011819\  
Data File : BF112130.D  
Acq On : 18 Jan 2019 17:54  
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Sample : K1191-04 2X  
Misc :  
ALS Vial : 6 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
SITE4-EAST

Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF011619.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 : K1191-04 2X  
Misc :  
ALS Vial : 6 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
SITE4-EAST

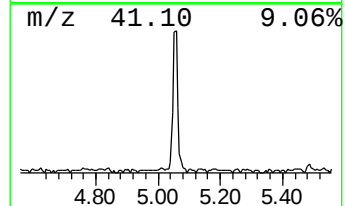
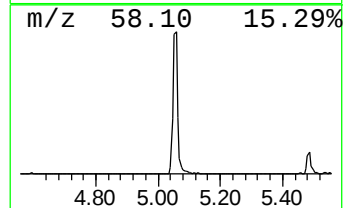
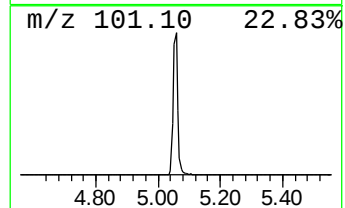
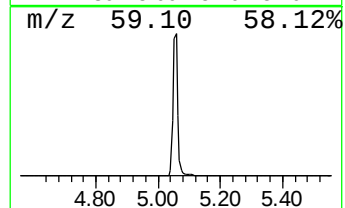
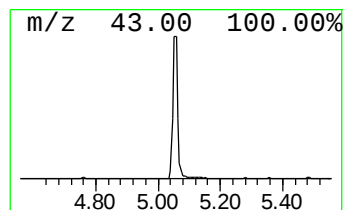
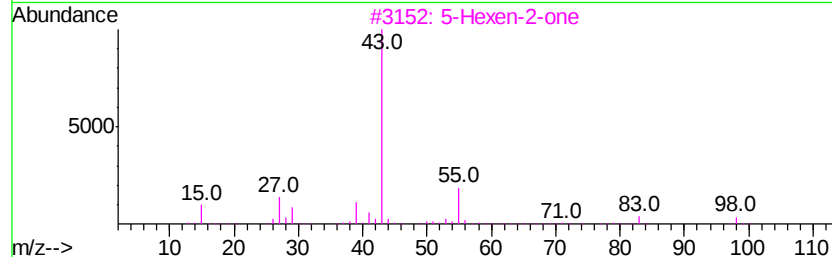
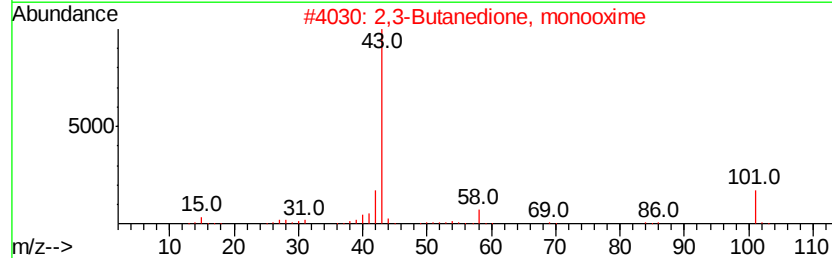
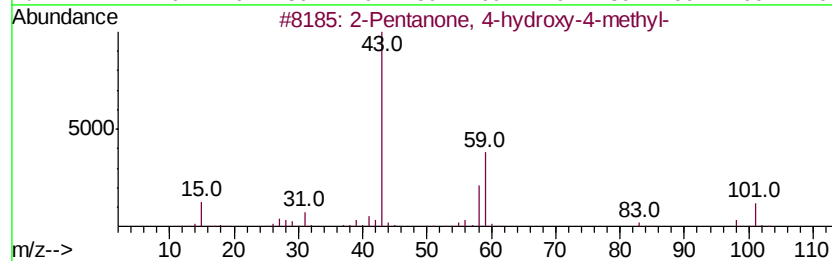
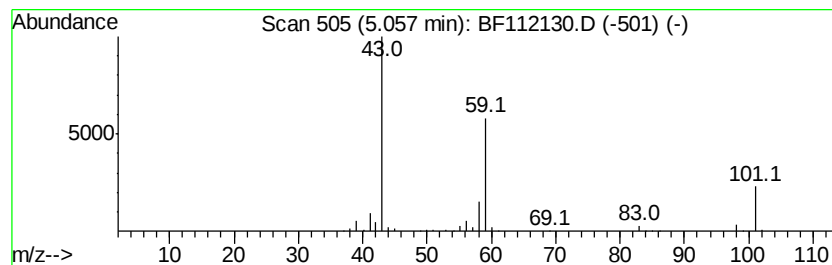
Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF011619.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

\*\*\*\*\*  
Peak Number 1 2-Pentanone, 4-hydroxy-4-me... Concentration Rank 3

| R.T. | EstConc | Area   | Relative to ISTD       | R.T. |
|------|---------|--------|------------------------|------|
| 5.06 | 7.38 ng | 558599 | 1,4-Dichlorobenzene-d4 | 6.86 |

| Hit# | of | 5 | Tentative ID                     | MW  | MolForm | CAS#        | Qual |
|------|----|---|----------------------------------|-----|---------|-------------|------|
| 1    |    |   | 2-Pentanone, 4-hydroxy-4-methyl- | 116 | C6H12O2 | 000123-42-2 | 56   |
| 2    |    |   | 2,3-Butanedione, monooxime       | 101 | C4H7NO2 | 000057-71-6 | 9    |
| 3    |    |   | 5-Hexen-2-one                    | 98  | C6H10O  | 000109-49-9 | 9    |
| 4    |    |   | 2-Propanone, 1-(1-methylethoxy)- | 116 | C6H12O2 | 042781-12-4 | 9    |
| 5    |    |   | 1-Propen-2-ol, acetate           | 100 | C5H8O2  | 000108-22-5 | 9    |



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Instrument :  
BNA\_F  
ClientSampleId :  
SITE4-EAST

Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF011619.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

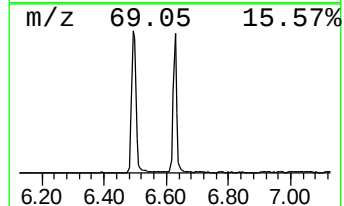
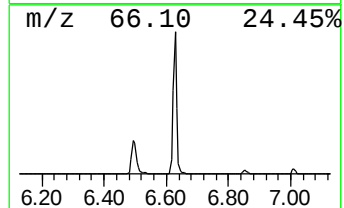
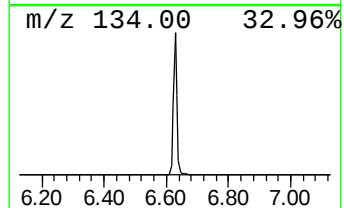
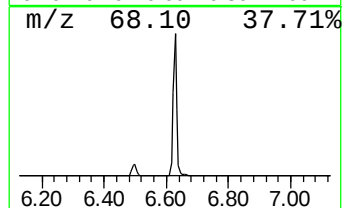
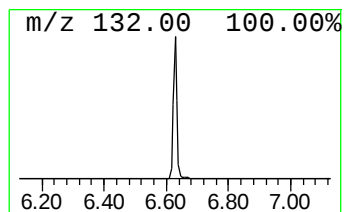
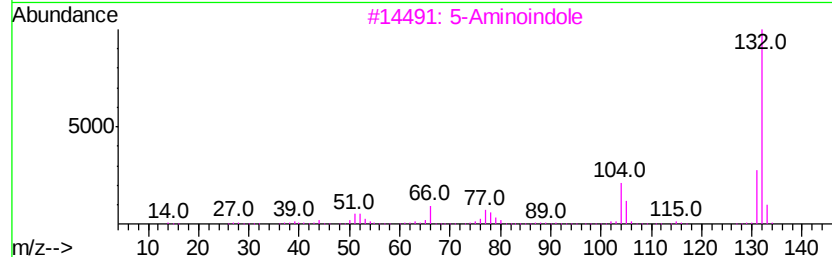
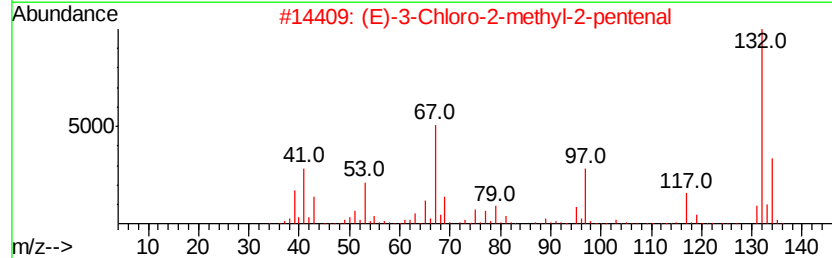
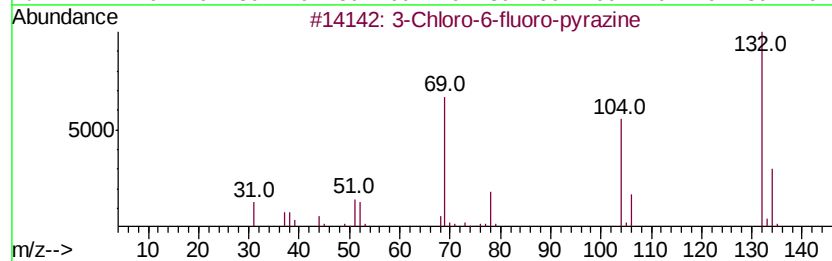
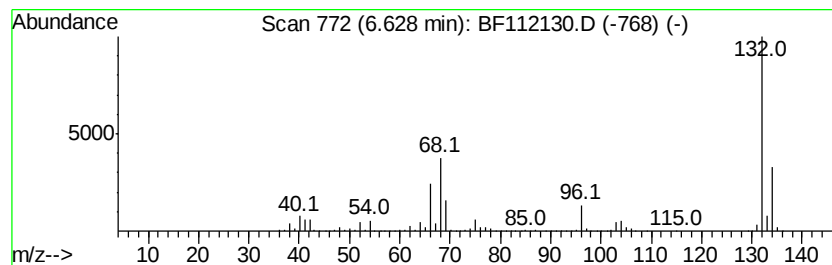
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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

| R.T. | EstConc  | Area    | Relative to ISTD       | R.T. |
|------|----------|---------|------------------------|------|
| 6.63 | 25.70 ng | 1945390 | 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 | 35   |
| 2    |    | (E)-3-Chloro-2-methyl-2-pentenal    | 132 | C6H9ClO   | 031357-76-3  | 16   |
| 3    |    | 5-Aminoindole                       | 132 | C8H8N2    | 005192-03-0  | 16   |
| 4    |    | Tranylcypromine-propionyl           | 189 | C12H15NO  | 1000123-86-3 | 16   |
| 5    |    | Bicyclo[4.2.0]octa-1,3,5-triene,... | 132 | C10H12    | 028749-81-7  | 9    |



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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

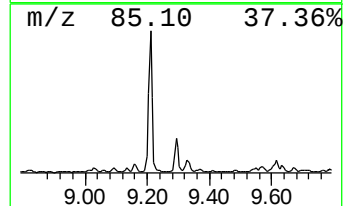
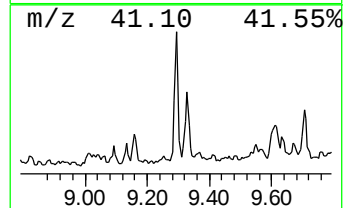
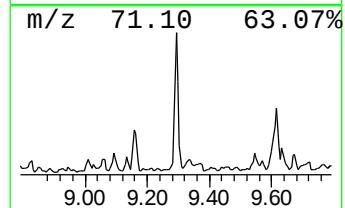
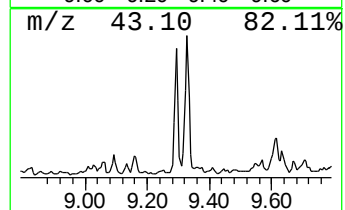
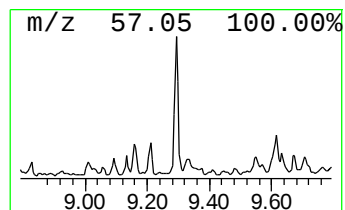
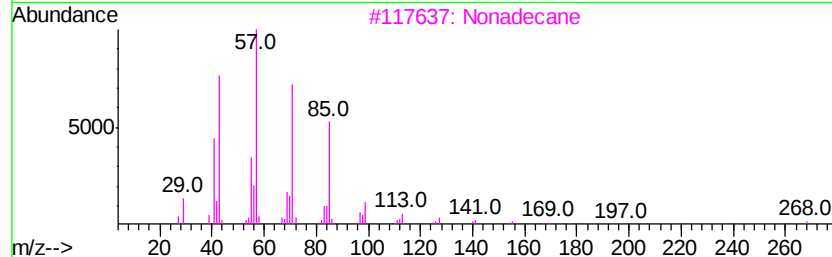
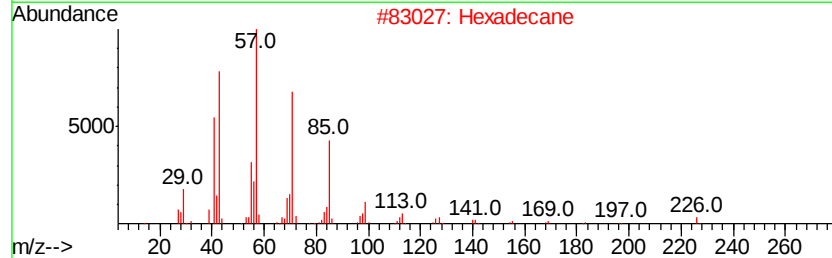
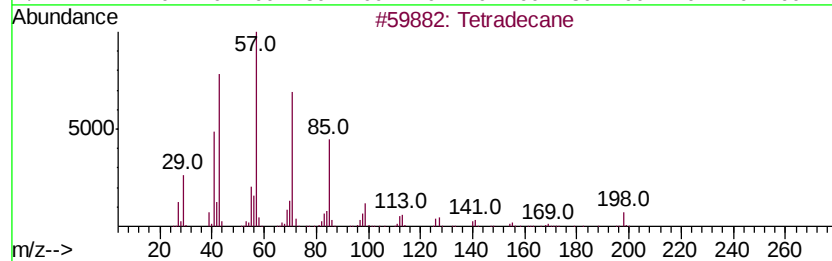
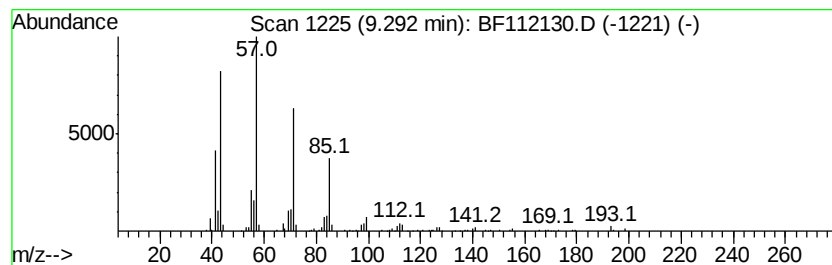
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TIC Integration Parameters: LSCINT.P

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Peak Number 4 Tetradecane Concentration Rank 15

| R.T. | EstConc | Area   | Relative to ISTD | R.T. |
|------|---------|--------|------------------|------|
| 9.29 | 2.35 ng | 285362 | Acenaphthene-d10 | 9.89 |

| Hit# | of | Tentative ID       | MW  | MolForm | CAS#        | Qual |
|------|----|--------------------|-----|---------|-------------|------|
| 1    | 5  | Tetradecane        | 198 | C14H30  | 000629-59-4 | 97   |
| 2    |    | Hexadecane         | 226 | C16H34  | 000544-76-3 | 91   |
| 3    |    | Nonadecane         | 268 | C19H40  | 000629-92-5 | 90   |
| 4    |    | Tridecane          | 184 | C13H28  | 000629-50-5 | 86   |
| 5    |    | Tridecane, 1-iodo- | 310 | C13H27I | 035599-77-0 | 80   |



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF011819\  
Data File : BF112130.D  
Acq On : 18 Jan 2019 17:54  
Operator : JU/SJ  
Sample : K1191-04 2X  
Misc :  
ALS Vial : 6 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
SITE4-EAST

Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF011619.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

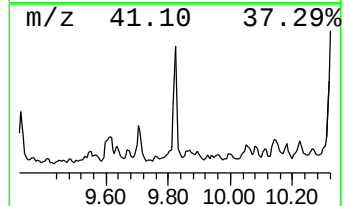
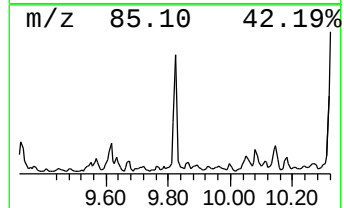
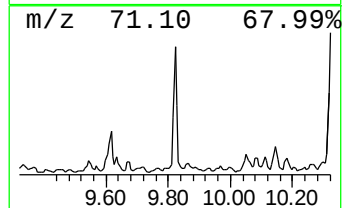
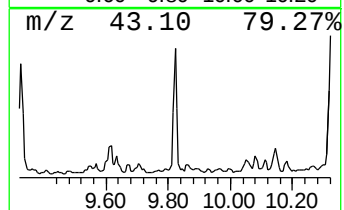
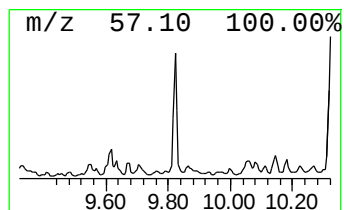
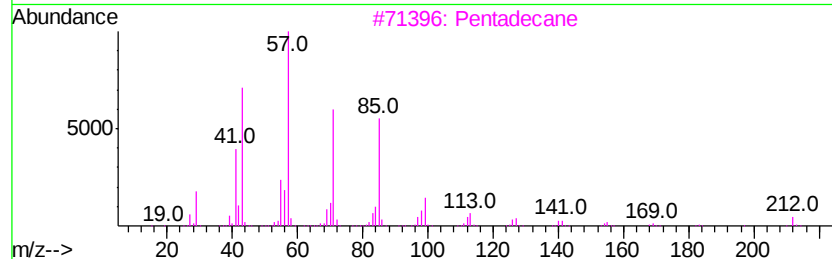
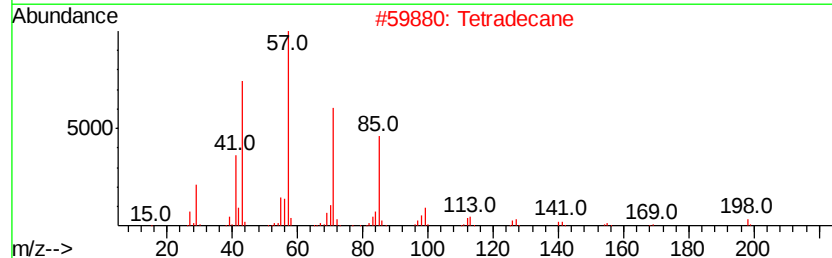
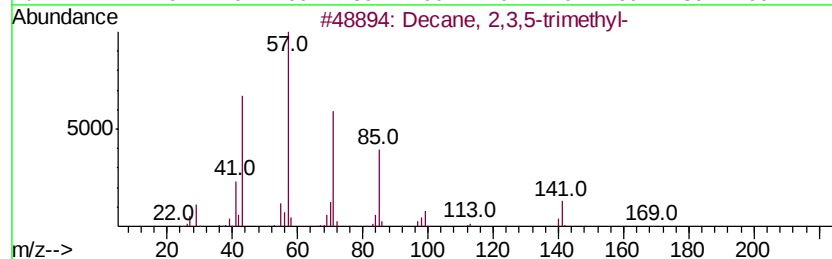
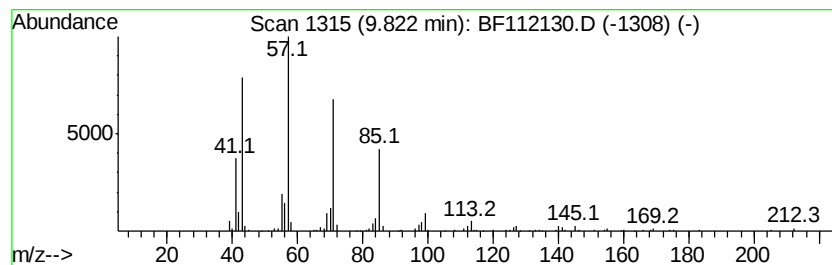
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 5 Decane, 2,3,5-trimethyl- Concentration Rank 11

| R.T. | EstConc | Area   | Relative to ISTD |  | R.T. |
|------|---------|--------|------------------|--|------|
| 9.82 | 2.75 ng | 334570 | Acenaphthene-d10 |  | 9.89 |

| Hit# | of | 5 | Tentative ID                 | MW  | MolForm | CAS#        | Qual |
|------|----|---|------------------------------|-----|---------|-------------|------|
| 1    |    |   | Decane, 2,3,5-trimethyl-     | 184 | C13H28  | 062238-11-3 | 90   |
| 2    |    |   | Tetradecane                  | 198 | C14H30  | 000629-59-4 | 90   |
| 3    |    |   | Pentadecane                  | 212 | C15H32  | 000629-62-9 | 90   |
| 4    |    |   | Hexadecane                   | 226 | C16H34  | 000544-76-3 | 86   |
| 5    |    |   | Dodecane, 2-methyl-6-propyl- | 226 | C16H34  | 055045-08-4 | 80   |



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF011819\  
Data File : BF112130.D  
Acq On : 18 Jan 2019 17:54  
Operator : JU/SJ  
Sample : K1191-04 2X  
Misc :  
ALS Vial : 6 Sample Multiplier: 1

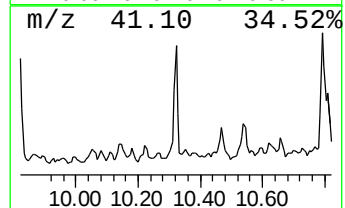
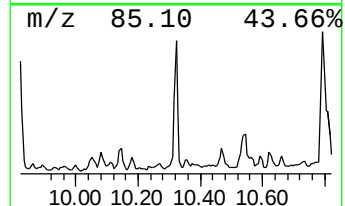
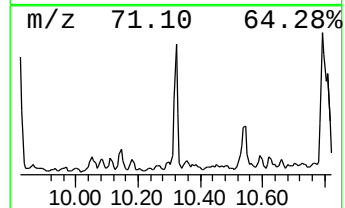
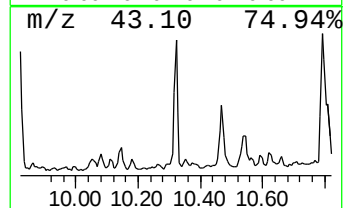
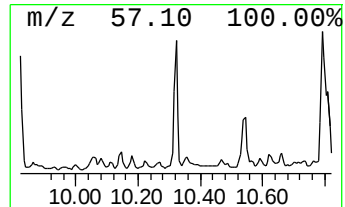
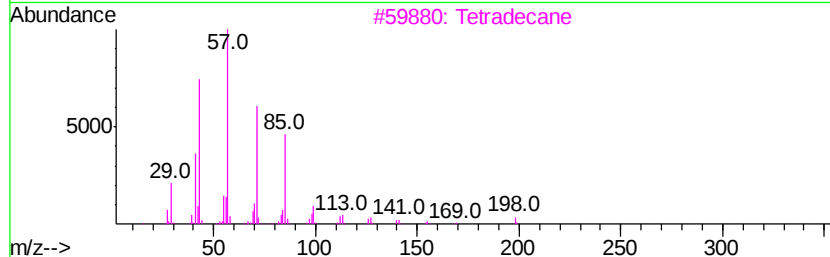
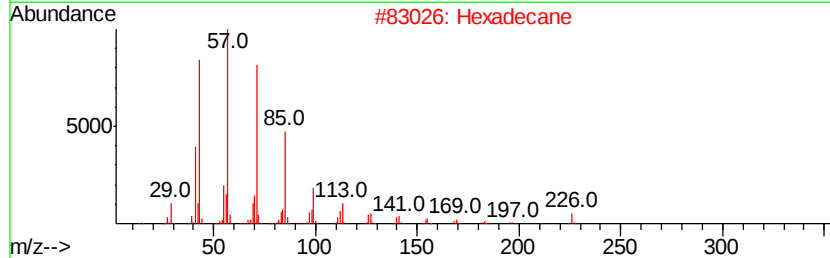
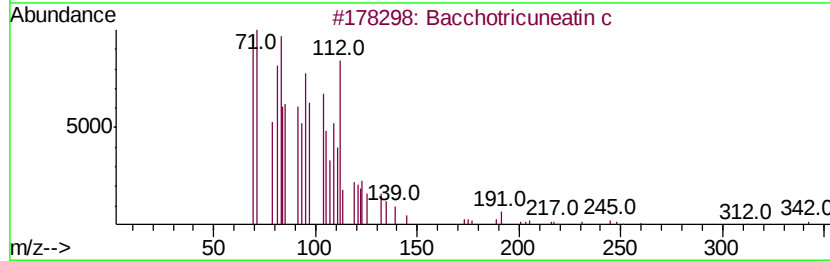
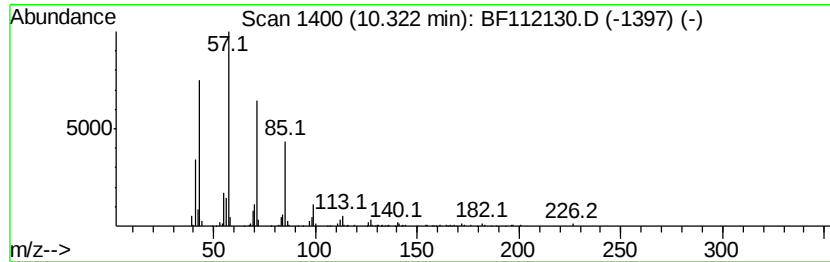
Instrument :  
BNA\_F  
ClientSampleId :  
SITE4-EAST

Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF011619.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 Bacchotricuneatin c Concentration Rank 9

| R.T.      | EstConc             | Area   | Relative to ISTD |             | R.T. |
|-----------|---------------------|--------|------------------|-------------|------|
| 10.32     | 2.84 ng             | 344904 | Acenaphthene-d10 |             | 9.89 |
| Hit# of 5 | Tentative ID        | MW     | MolForm          | CAS#        | Qual |
| 1         | Bacchotricuneatin c | 342    | C20H22O5         | 066563-30-2 | 97   |
| 2         | Hexadecane          | 226    | C16H34           | 000544-76-3 | 94   |
| 3         | Tetradecane         | 198    | C14H30           | 000629-59-4 | 90   |
| 4         | Tridecane           | 184    | C13H28           | 000629-50-5 | 90   |
| 5         | Pentadecane         | 212    | C15H32           | 000629-62-9 | 90   |



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF011819\  
Data File : BF112130.D  
Acq On : 18 Jan 2019 17:54  
Operator : JU/SJ  
Sample : K1191-04 2X  
Misc :  
ALS Vial : 6 Sample Multiplier: 1

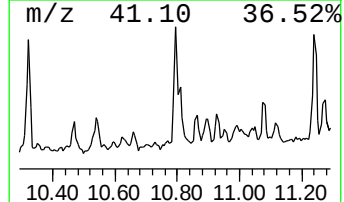
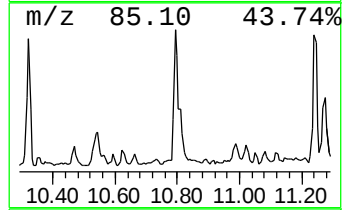
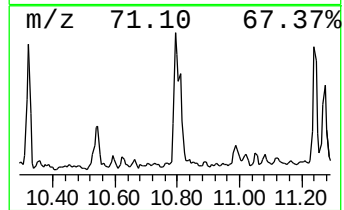
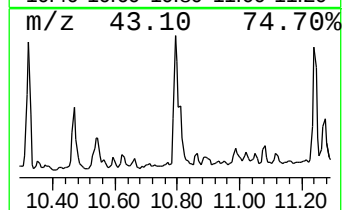
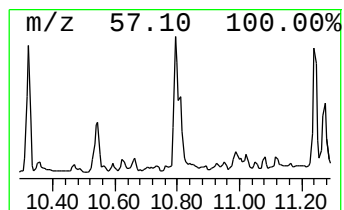
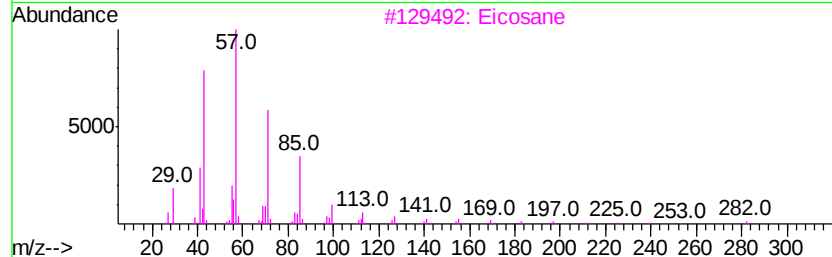
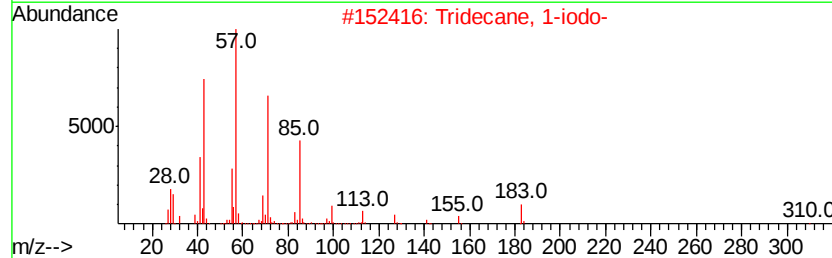
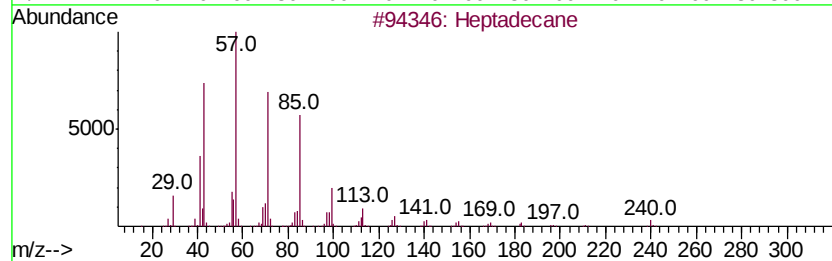
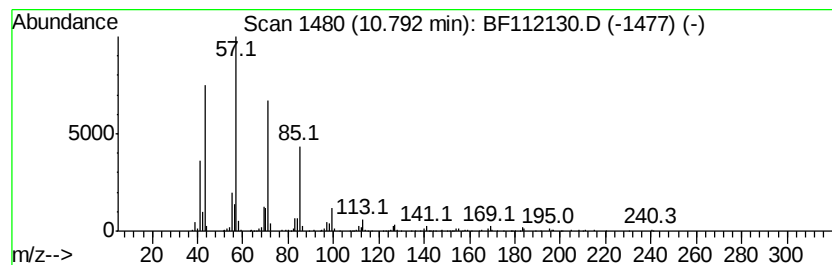
Instrument :  
BNA\_F  
ClientSampleId :  
SITE4-EAST

Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF011619.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 Heptadecane Concentration Rank 4

| R.T.      | EstConc                             | Area   | Relative to ISTD | R.T.         |      |
|-----------|-------------------------------------|--------|------------------|--------------|------|
| 10.79     | 3.87 ng                             | 472727 | Phenanthrene-d10 | 11.38        |      |
| Hit# of 5 | Tentative ID                        | MW     | MolForm          | CAS#         | Qual |
| 1         | Heptadecane                         | 240    | C17H36           | 000629-78-7  | 95   |
| 2         | Tridecane, 1-iodo-                  | 310    | C13H27I          | 035599-77-0  | 91   |
| 3         | Eicosane                            | 282    | C20H42           | 000112-95-8  | 91   |
| 4         | Tetradecane                         | 198    | C14H30           | 000629-59-4  | 91   |
| 5         | Sulfurous acid, 2-propyl tetrade... | 320    | C17H36O3S        | 1000309-12-5 | 90   |



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF011819\  
Data File : BF112130.D  
Acq On : 18 Jan 2019 17:54  
Operator : JU/SJ  
Sample : K1191-04 2X  
Misc :  
ALS Vial : 6 Sample Multiplier: 1

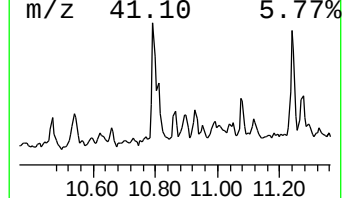
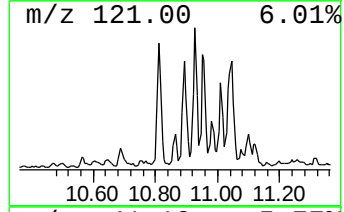
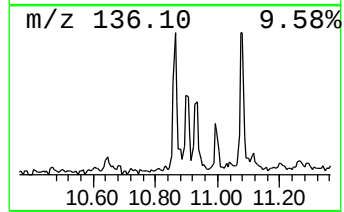
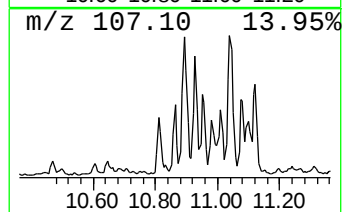
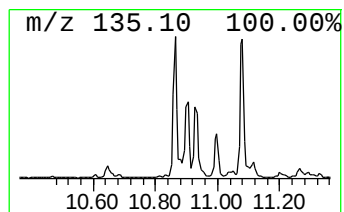
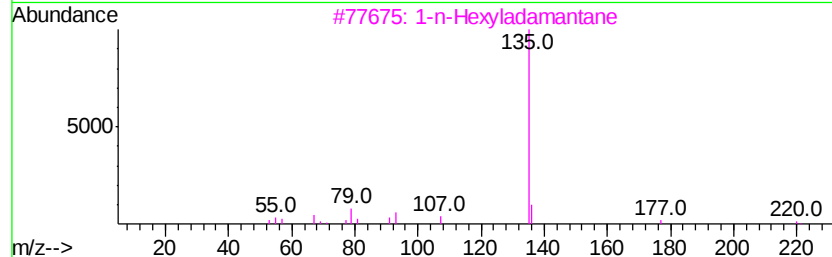
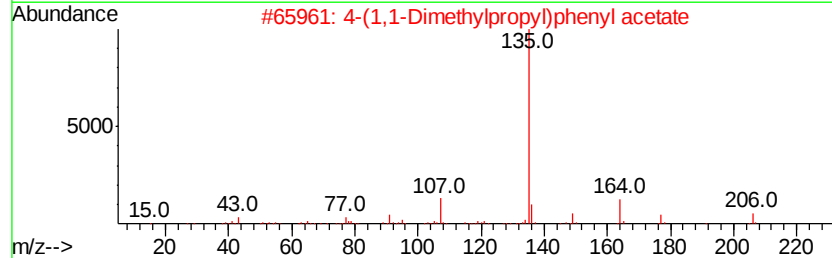
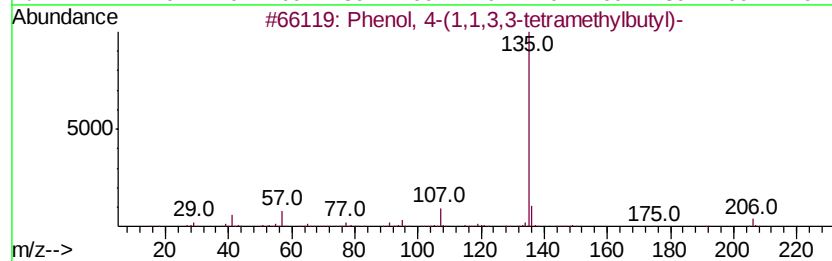
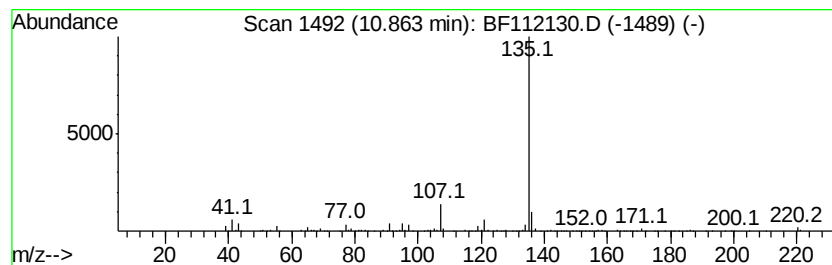
Instrument :  
BNA\_F  
ClientSampleId :  
SITE4-EAST

Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF011619.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 Phenol, 4-(1,1,3,3-tetramet... Concentration Rank 20

| R.T.      | EstConc                             | Area   | Relative to ISTD | R.T.         |      |
|-----------|-------------------------------------|--------|------------------|--------------|------|
| 10.86     | 2.02 ng                             | 246422 | Phenanthrene-d10 | 11.38        |      |
| Hit# of 5 | Tentative ID                        | MW     | MolForm          | CAS#         | Qual |
| 1         | Phenol, 4-(1,1,3,3-tetramethylbu... | 206    | C14H22O          | 000140-66-9  | 72   |
| 2         | 4-(1,1-Dimethylpropyl)phenyl ace... | 206    | C13H18O2         | 1000373-45-3 | 72   |
| 3         | 1-n-Hexyladamantane                 | 220    | C16H28           | 022458-75-9  | 64   |
| 4         | Phenol, 4-(1,1-dimethylpropyl)-     | 164    | C11H16O          | 000080-46-6  | 64   |
| 5         | Carbamic acid, N-[1,1-bis(triflu... | 413    | C19H25F6N02      | 296242-69-8  | 64   |



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF011819\  
Data File : BF112130.D  
Acq On : 18 Jan 2019 17:54  
Operator : JU/SJ  
Sample : K1191-04 2X  
Misc :  
ALS Vial : 6 Sample Multiplier: 1

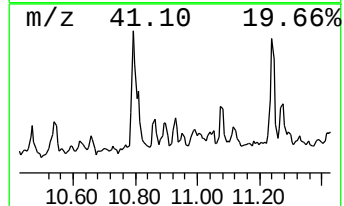
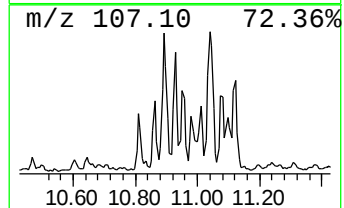
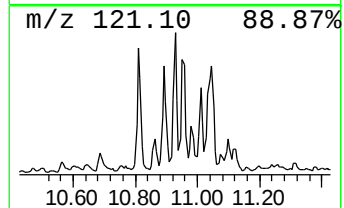
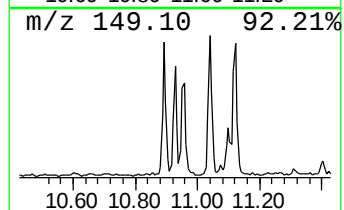
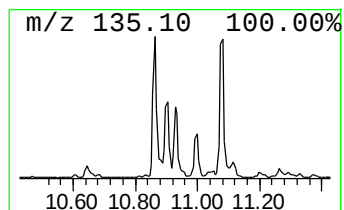
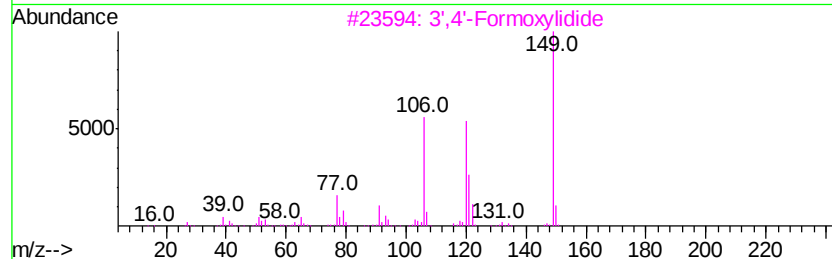
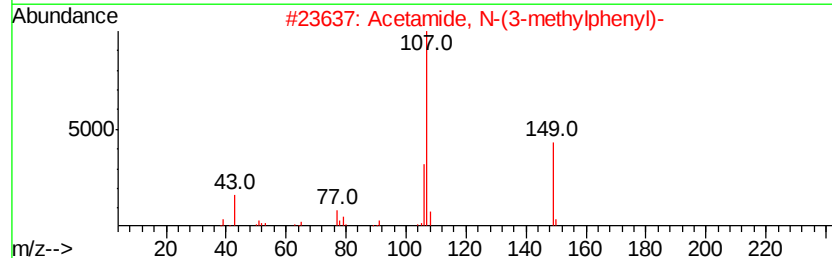
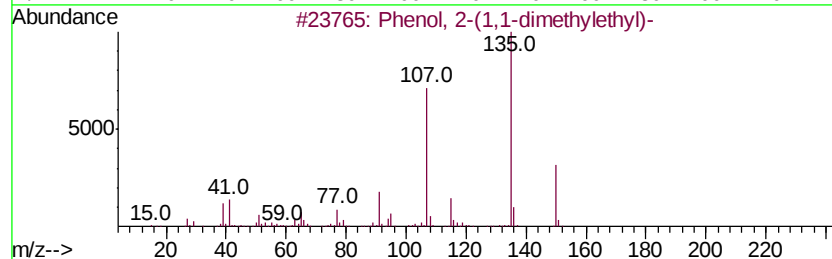
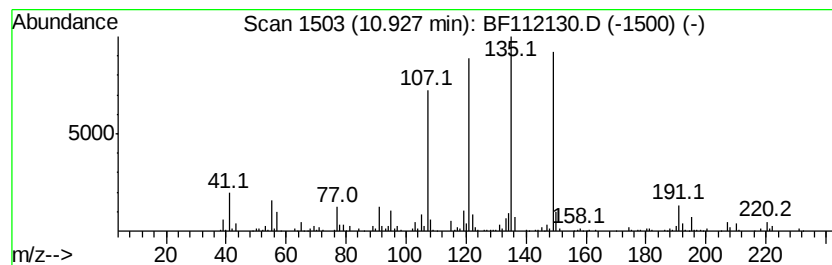
Instrument :  
BNA\_F  
ClientSampleId :  
SITE4-EAST

Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF011619.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

\*\*\*\*\*  
Peak Number 10 unknown10.93 Concentration Rank 10

| R.T.      | EstConc                        | Area   | Relative to ISTD | R.T.        |      |
|-----------|--------------------------------|--------|------------------|-------------|------|
| 10.93     | 2.83 ng                        | 345816 | Phenanthrene-d10 | 11.38       |      |
| Hit# of 5 | Tentative ID                   | MW     | MolForm          | CAS#        | Qual |
| 1         | Phenol, 2-(1,1-dimethylethyl)- | 150    | C10H14O          | 000088-18-6 | 30   |
| 2         | Acetamide, N-(3-methylphenyl)- | 149    | C9H11NO          | 000537-92-8 | 27   |
| 3         | 3',4'-Formoxylidide            | 149    | C9H11NO          | 006639-60-7 | 18   |
| 4         | Acetamide, N-(2-methylphenyl)- | 149    | C9H11NO          | 000120-66-1 | 18   |
| 5         | 1H-Indole, 5-fluoro-           | 135    | C8H6FN           | 000399-52-0 | 14   |



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF011819\  
Data File : BF112130.D  
Acq On : 18 Jan 2019 17:54  
Operator : JU/SJ  
Sample : K1191-04 2X  
Misc :  
ALS Vial : 6 Sample Multiplier: 1

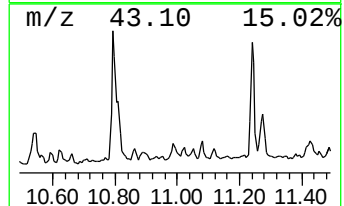
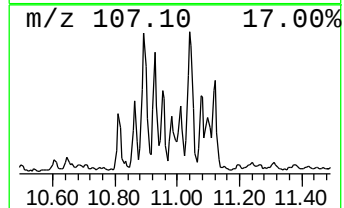
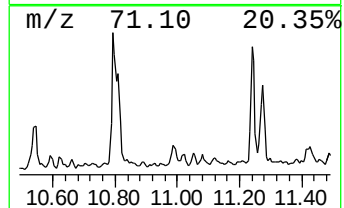
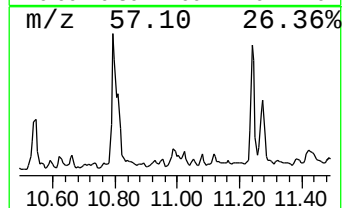
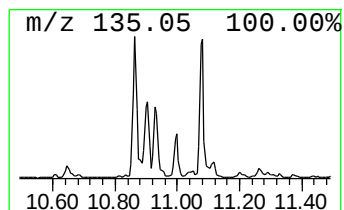
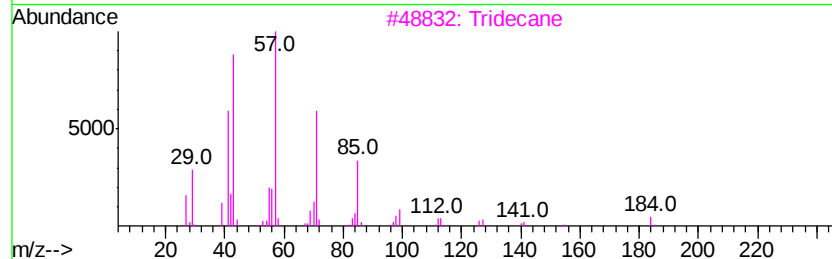
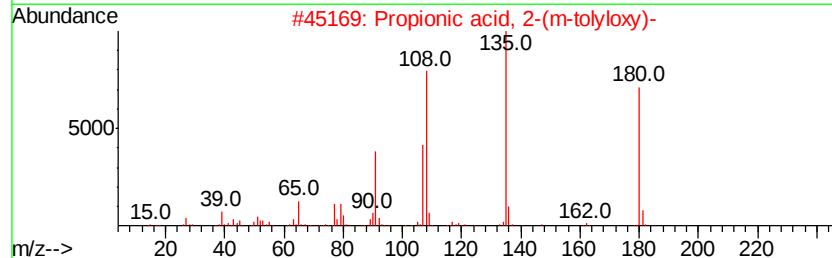
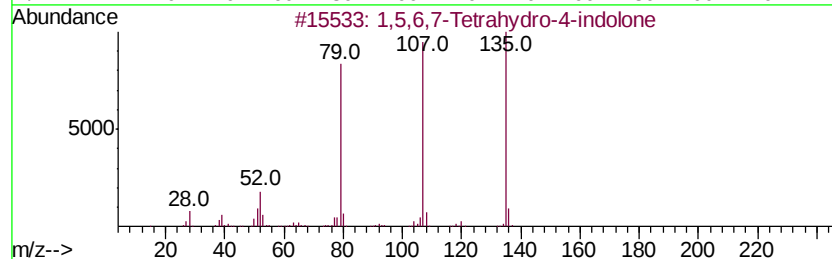
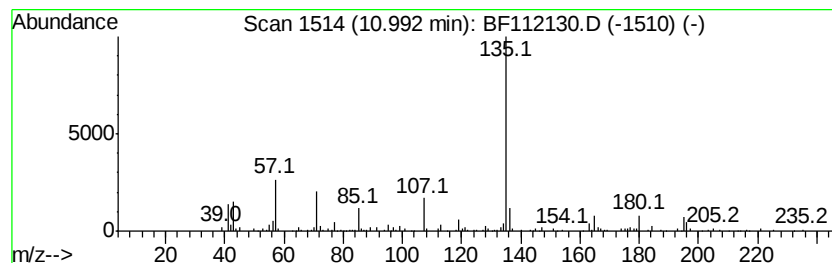
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BNA\_F  
ClientSampleId :  
SITE4-EAST

Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF011619.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

\*\*\*\*\*  
Peak Number 11 unknown10.99 Concentration Rank 17

| R.T.      | EstConc                         | Area   | Relative to ISTD | R.T.        |      |
|-----------|---------------------------------|--------|------------------|-------------|------|
| 10.99     | 2.18 ng                         | 265987 | Phenanthrene-d10 | 11.38       |      |
| Hit# of 5 | Tentative ID                    | MW     | MolForm          | CAS#        | Qual |
| 1         | 1,5,6,7-Tetrahydro-4-indolone   | 135    | C8H9NO           | 013754-86-4 | 22   |
| 2         | Propionic acid, 2-(m-tolyloxy)- | 180    | C10H12O3         | 025140-95-8 | 18   |
| 3         | Tridecane                       | 184    | C13H28           | 000629-50-5 | 14   |
| 4         | 1-(4-Ethoxyphenyl)acetone       | 178    | C11H14O2         | 144818-72-4 | 11   |
| 5         | Tetracosane                     | 338    | C24H50           | 000646-31-1 | 11   |



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF011819\  
Data File : BF112130.D  
Acq On : 18 Jan 2019 17:54  
Operator : JU/SJ  
Sample : K1191-04 2X  
Misc :  
ALS Vial : 6 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
SITE4-EAST

Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF011619.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

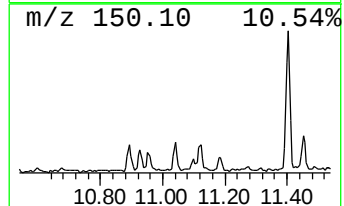
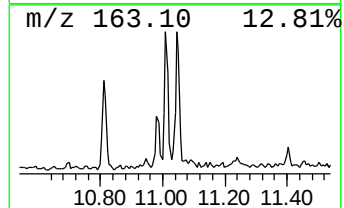
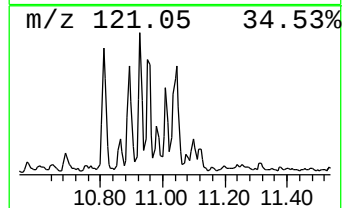
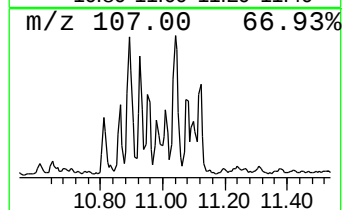
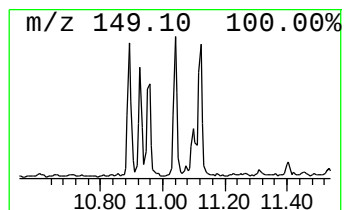
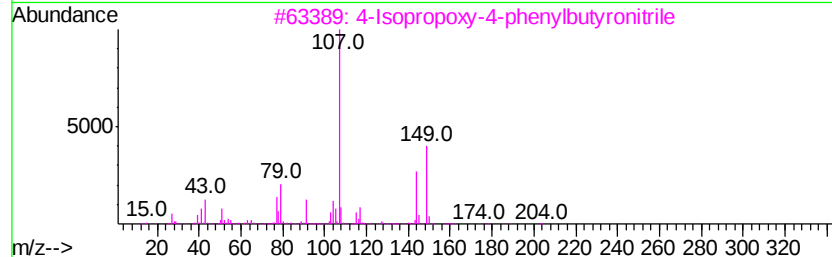
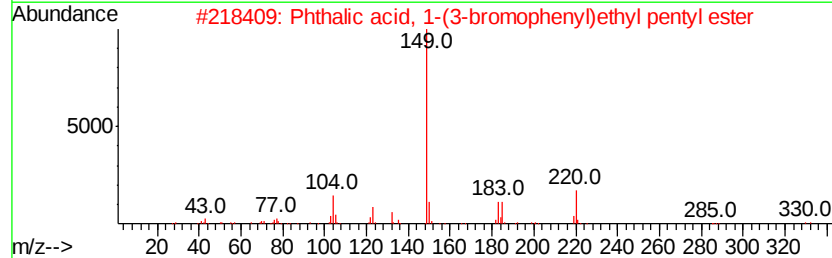
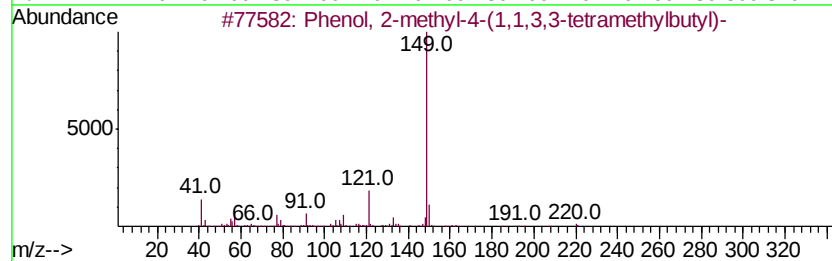
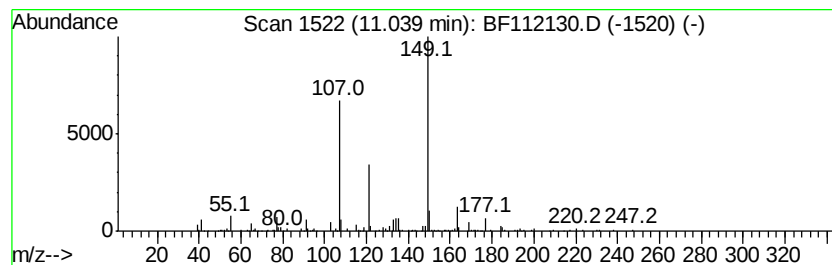
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TIC Integration Parameters: LSCINT.P

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Peak Number 12 unknown11.04 Concentration Rank 16

| R.T.  | EstConc | Area   | Relative to ISTD | R.T.  |
|-------|---------|--------|------------------|-------|
| 11.04 | 2.33 ng | 284486 | Phenanthrene-d10 | 11.38 |

| Hit# | of | Tentative ID                        | MW  | MolForm    | CAS#         | Qual |
|------|----|-------------------------------------|-----|------------|--------------|------|
| 1    | 5  | Phenol, 2-methyl-4-(1,1,3,3-tetr... | 220 | C15H24O    | 002219-84-3  | 49   |
| 2    |    | Phthalic acid, 1-(3-bromophenyl)... | 418 | C21H23BrO4 | 1000377-87-8 | 47   |
| 3    |    | 4-Isopropoxy-4-phenylbutyronitrile  | 203 | C13H17NO   | 1000370-35-3 | 45   |
| 4    |    | Pyrindine, pentamethyl-             | 149 | C10H15N    | 003748-83-2  | 38   |
| 5    |    | Phthalic acid, isobutyl 2-methyl... | 312 | C19H20O4   | 1000314-95-7 | 37   |



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF011819\  
Data File : BF112130.D  
Acq On : 18 Jan 2019 17:54  
Operator : JU/SJ  
Sample : K1191-04 2X  
Misc :  
ALS Vial : 6 Sample Multiplier: 1

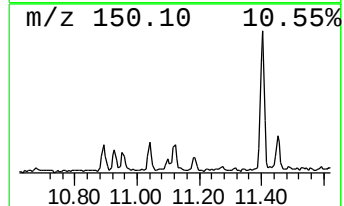
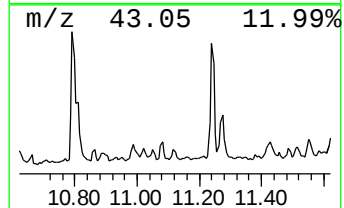
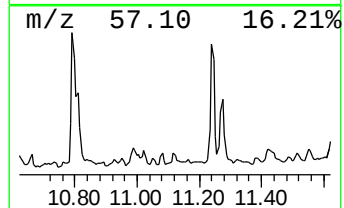
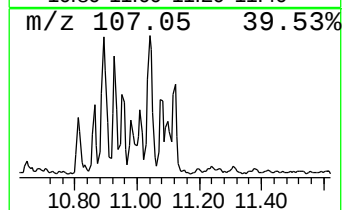
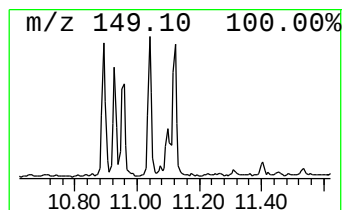
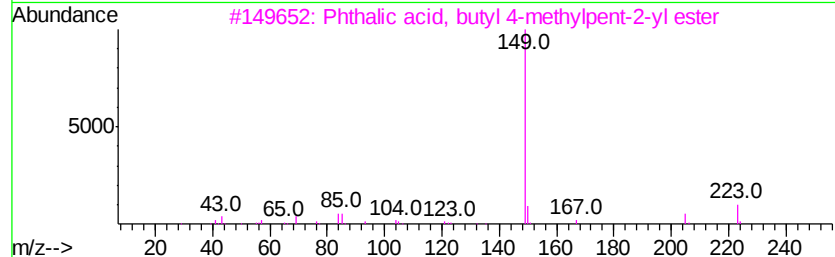
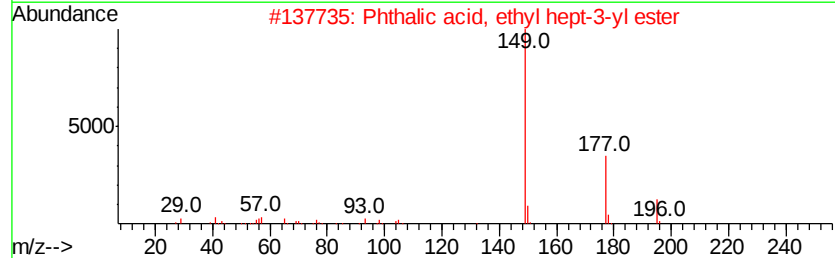
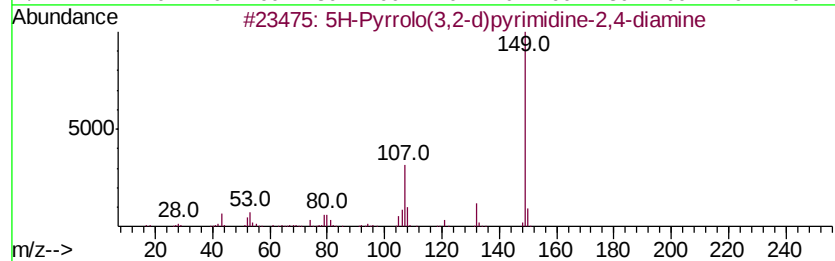
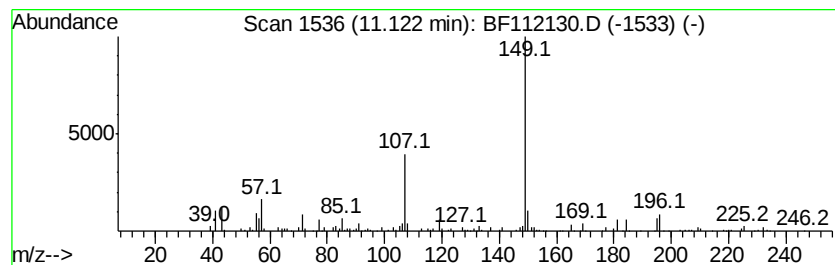
Instrument :  
BNA\_F  
ClientSampleId :  
SITE4-EAST

Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF011619.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

\*\*\*\*\*  
Peak Number 14 5H-Pyrrolo(3,2-d)pyrimidine... Concentration Rank 19

| R.T.    | EstConc                             | Area         | Relative to ISTD | R.T.    |              |      |
|---------|-------------------------------------|--------------|------------------|---------|--------------|------|
| 11.12   | 2.05 ng                             | 251015       | Phenanthrene-d10 | 11.38   |              |      |
| Hit# of | 5                                   | Tentative ID | MW               | MolForm | CAS#         | Qual |
| 1       | 5H-Pyrrolo(3,2-d)pyrimidine-2,4-... | 149          | C6H7N5           |         | 1000244-21-4 | 50   |
| 2       | Phthalic acid, ethyl hept-3-yl e... | 292          | C17H24O4         |         | 1000356-98-4 | 38   |
| 3       | Phthalic acid, butyl 4-methylpen... | 306          | C18H26O4         |         | 1000356-87-3 | 38   |
| 4       | Pyridine, pentamethyl-              | 149          | C10H15N          |         | 003748-83-2  | 38   |
| 5       | Phthalic acid, dodecyl ethyl ester  | 362          | C22H34O4         |         | 1000308-93-4 | 38   |



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF011819\  
Data File : BF112130.D  
Acq On : 18 Jan 2019 17:54  
Operator : JU/SJ  
Sample : K1191-04 2X  
Misc :  
ALS Vial : 6 Sample Multiplier: 1

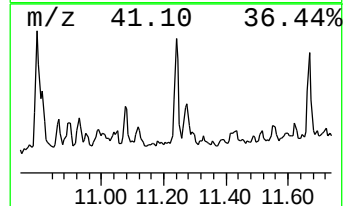
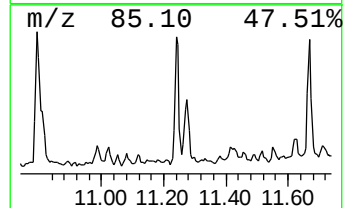
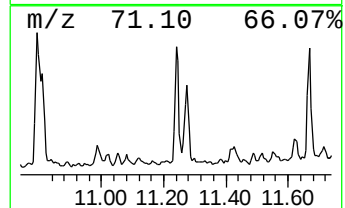
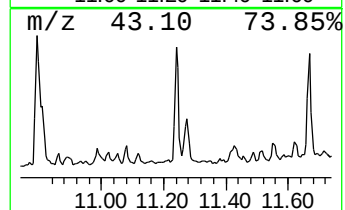
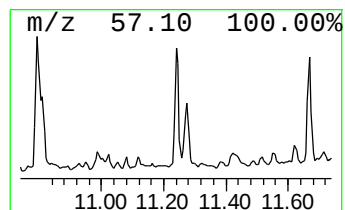
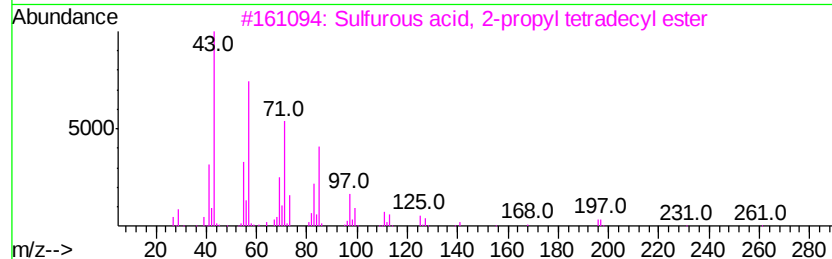
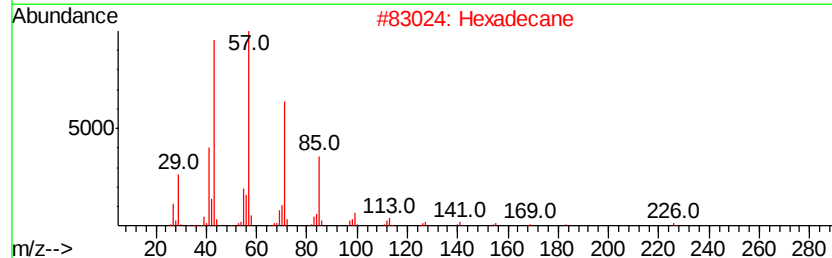
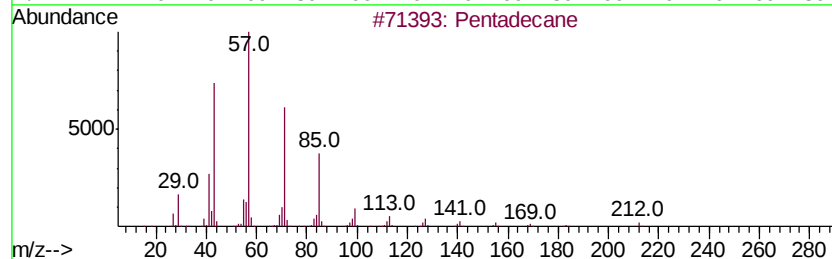
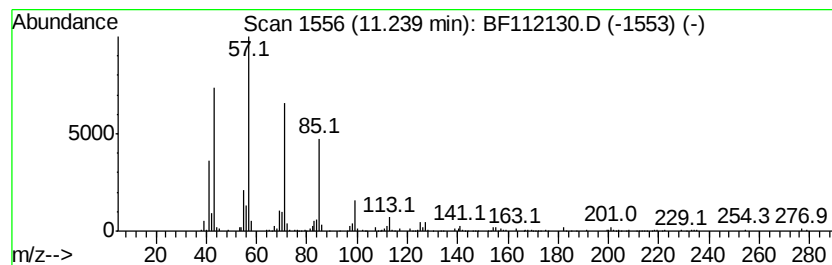
Instrument :  
BNA\_F  
ClientSampleId :  
SITE4-EAST

Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF011619.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

\*\*\*\*\*  
Peak Number 15 Pentadecane Concentration Rank 5

| R.T.      | EstConc                             | Area   | Relative to ISTD |              | R.T.  |
|-----------|-------------------------------------|--------|------------------|--------------|-------|
| 11.24     | 3.76 ng                             | 458846 | Phenanthrene-d10 |              | 11.38 |
| Hit# of 5 | Tentative ID                        | MW     | MolForm          | CAS#         | Qual  |
| 1         | Pentadecane                         | 212    | C15H32           | 000629-62-9  | 91    |
| 2         | Hexadecane                          | 226    | C16H34           | 000544-76-3  | 90    |
| 3         | Sulfurous acid, 2-propyl tetrade... | 320    | C17H36O3S        | 1000309-12-5 | 90    |
| 4         | Eicosane                            | 282    | C20H42           | 000112-95-8  | 87    |
| 5         | Tetracosane                         | 338    | C24H50           | 000646-31-1  | 86    |



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF011819\  
Data File : BF112130.D  
Acq On : 18 Jan 2019 17:54  
Operator : JU/SJ  
Sample : K1191-04 2X  
Misc :  
ALS Vial : 6 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
SITE4-EAST

Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF011619.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

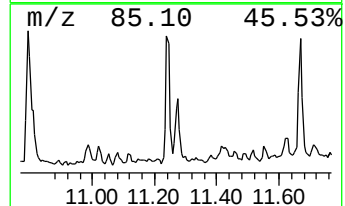
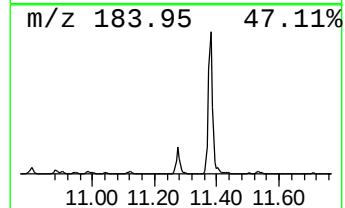
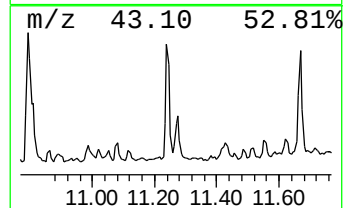
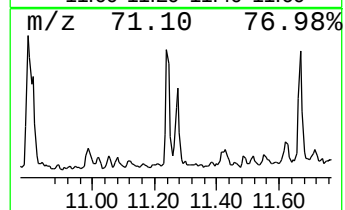
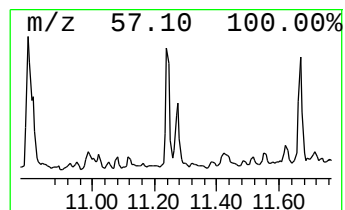
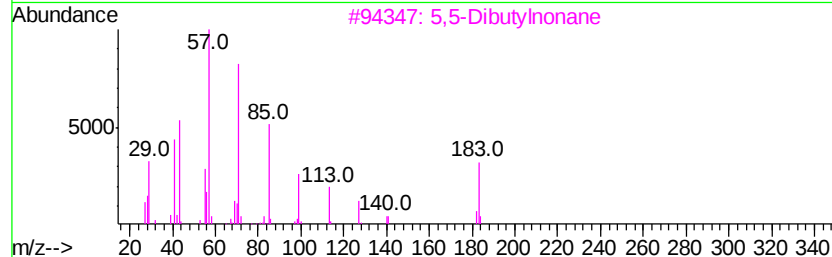
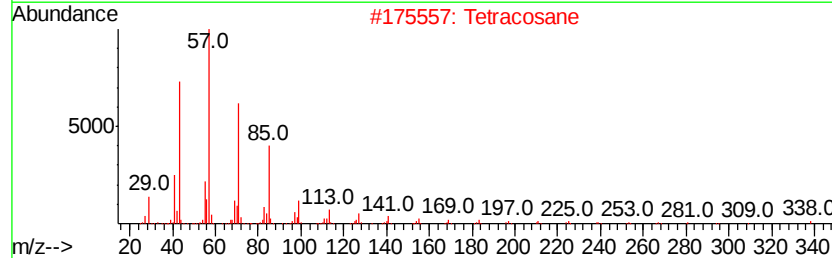
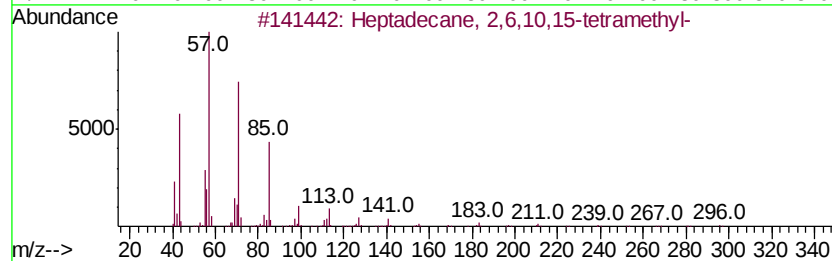
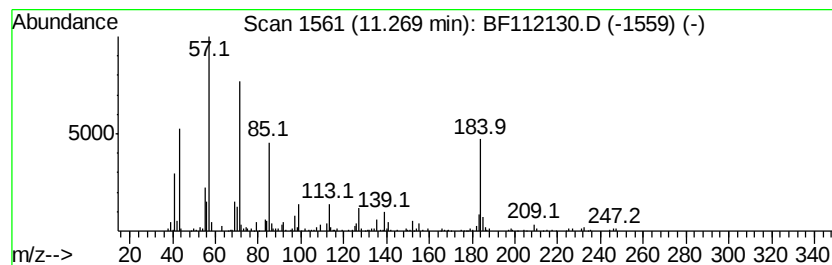
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TIC Integration Parameters: LSCINT.P

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Peak Number 16 Heptadecane, 2,6,10,15-tetr... Concentration Rank 12

| R.T.  | EstConc | Area   | Relative to ISTD | R.T.  |
|-------|---------|--------|------------------|-------|
| 11.27 | 2.65 ng | 324318 | Phenanthrene-d10 | 11.38 |

| Hit# | of | 5 | Tentative ID                        | MW  | MolForm | CAS#        | Qual |
|------|----|---|-------------------------------------|-----|---------|-------------|------|
| 1    |    |   | Heptadecane, 2,6,10,15-tetramethyl- | 296 | C21H44  | 054833-48-6 | 53   |
| 2    |    |   | Tetracosane                         | 338 | C24H50  | 000646-31-1 | 53   |
| 3    |    |   | 5,5-Dibutylnonane                   | 240 | C17H36  | 006008-17-9 | 49   |
| 4    |    |   | Pentadecane, 2,6,10,14-tetramethyl- | 268 | C19H40  | 001921-70-6 | 49   |
| 5    |    |   | Hexadecane                          | 226 | C16H34  | 000544-76-3 | 49   |



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF011819\  
Data File : BF112130.D  
Acq On : 18 Jan 2019 17:54  
Operator : JU/SJ  
Sample : K1191-04 2X  
Misc :  
ALS Vial : 6 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
SITE4-EAST

Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF011619.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

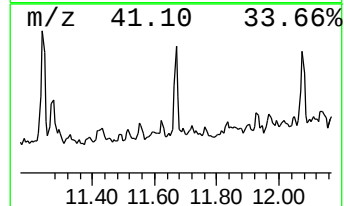
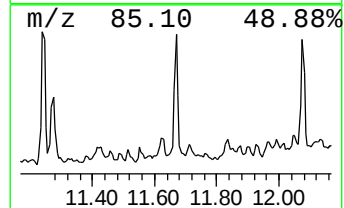
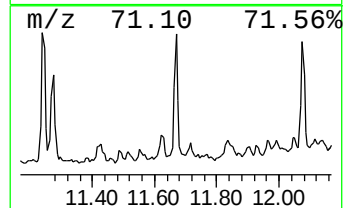
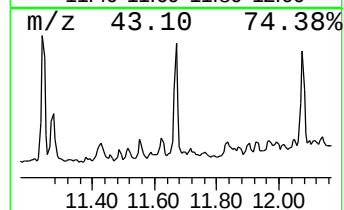
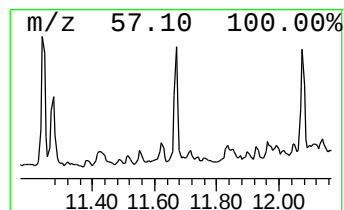
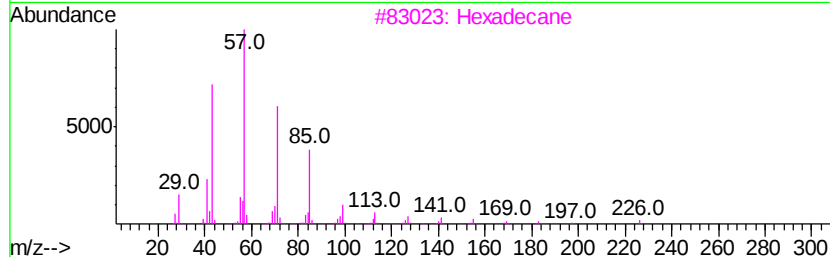
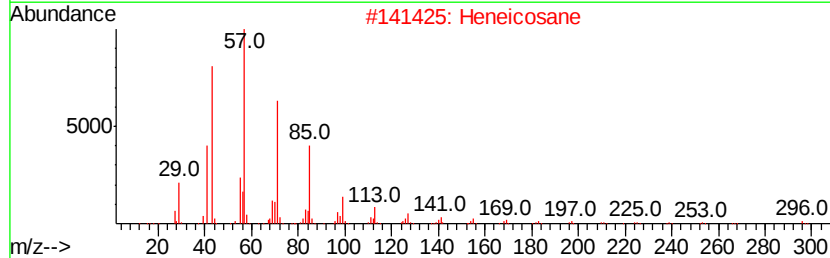
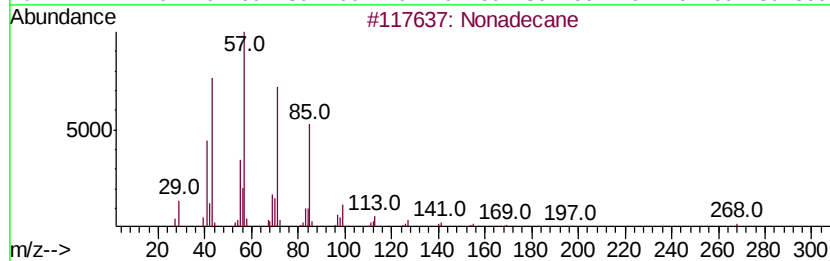
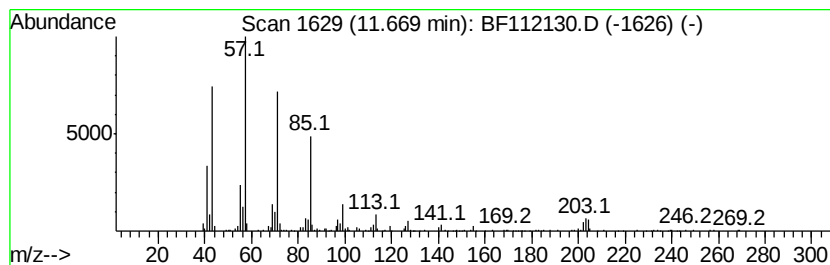
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 17 Nonadecane Concentration Rank 13

| R.T.  | EstConc | Area   | Relative to ISTD | R.T.  |
|-------|---------|--------|------------------|-------|
| 11.67 | 2.57 ng | 313940 | Phenanthrene-d10 | 11.38 |

| Hit# | of | Tentative ID       | MW  | MolForm  | CAS#        | Qual |
|------|----|--------------------|-----|----------|-------------|------|
| 1    | 5  | Nonadecane         | 268 | C19H40   | 000629-92-5 | 92   |
| 2    |    | Heneicosane        | 296 | C21H44   | 000629-94-7 | 83   |
| 3    |    | Hexadecane         | 226 | C16H34   | 000544-76-3 | 83   |
| 4    |    | Tridecane, 1-iodo- | 310 | C13H27I  | 035599-77-0 | 83   |
| 5    |    | 2-Bromo dodecane   | 248 | C12H25Br | 013187-99-0 | 83   |



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF011819\  
Data File : BF112130.D  
Acq On : 18 Jan 2019 17:54  
Operator : JU/SJ  
Sample : K1191-04 2X  
Misc :  
ALS Vial : 6 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
SITE4-EAST

Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF011619.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

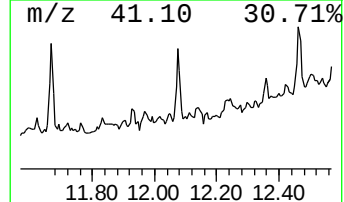
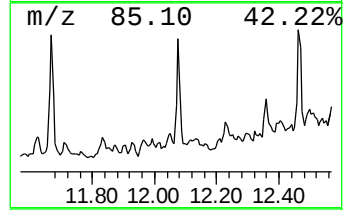
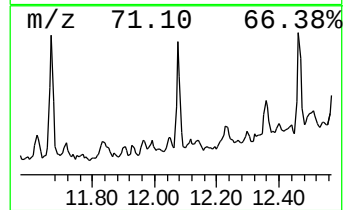
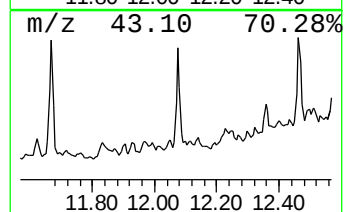
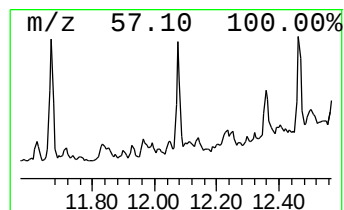
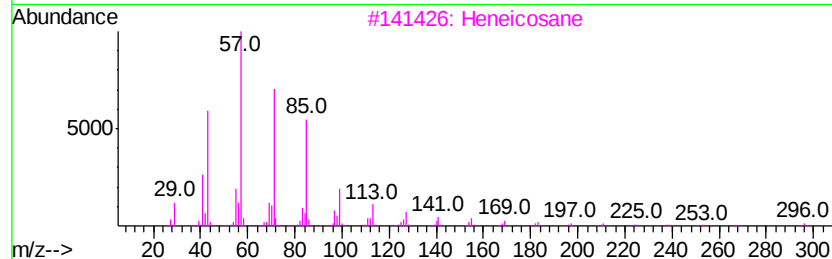
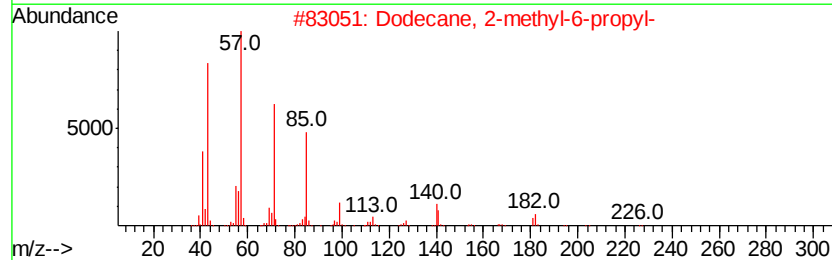
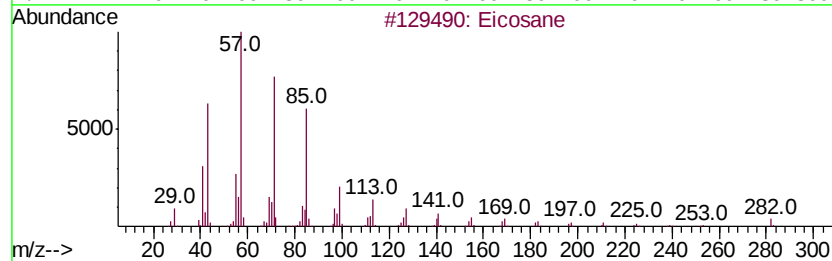
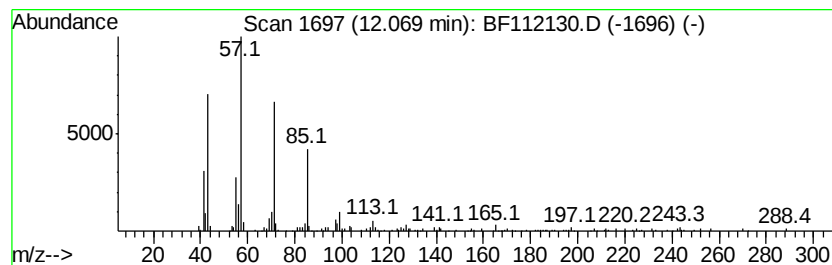
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 18 Eicosane Concentration Rank 18

| R.T.  | EstConc | Area   | Relative to ISTD | R.T.  |
|-------|---------|--------|------------------|-------|
| 12.07 | 2.13 ng | 260596 | Phenanthrene-d10 | 11.38 |

| Hit# | of | Tentative ID                 | MW  | MolForm | CAS#        | Qual |
|------|----|------------------------------|-----|---------|-------------|------|
| 1    | 5  | Eicosane                     | 282 | C20H42  | 000112-95-8 | 97   |
| 2    |    | Dodecane, 2-methyl-6-propyl- | 226 | C16H34  | 055045-08-4 | 91   |
| 3    |    | Heneicosane                  | 296 | C21H44  | 000629-94-7 | 91   |
| 4    |    | Tetradecane                  | 198 | C14H30  | 000629-59-4 | 90   |
| 5    |    | Eicosane, 10-methyl-         | 296 | C21H44  | 054833-23-7 | 90   |



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF011819\  
Data File : BF112130.D  
Acq On : 18 Jan 2019 17:54  
Operator : JU/SJ  
Sample : K1191-04 2X  
Misc :  
ALS Vial : 6 Sample Multiplier: 1

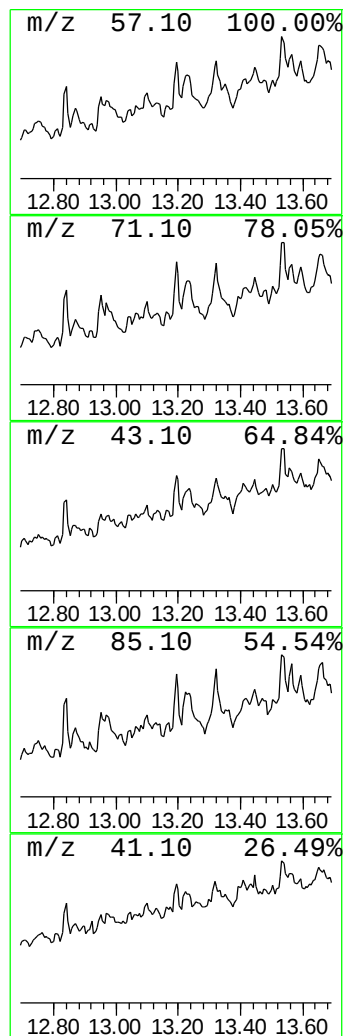
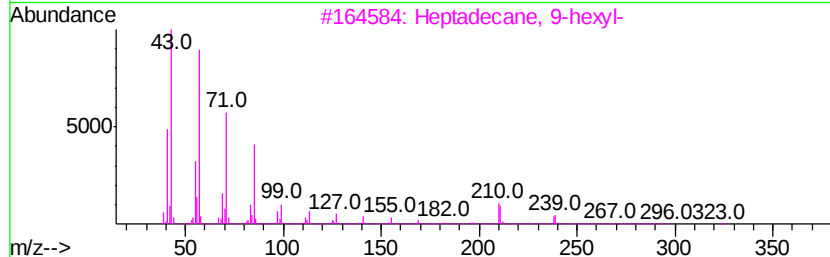
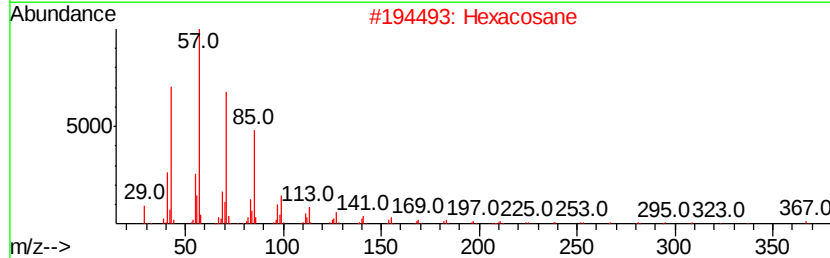
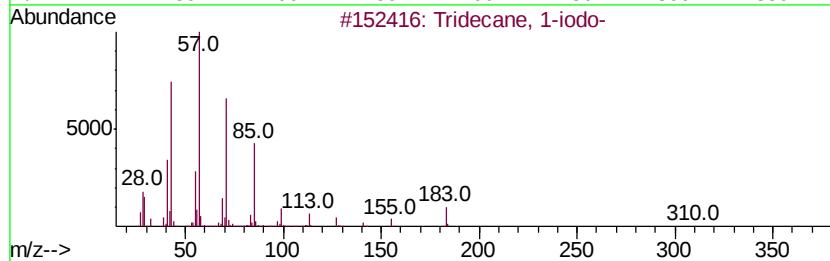
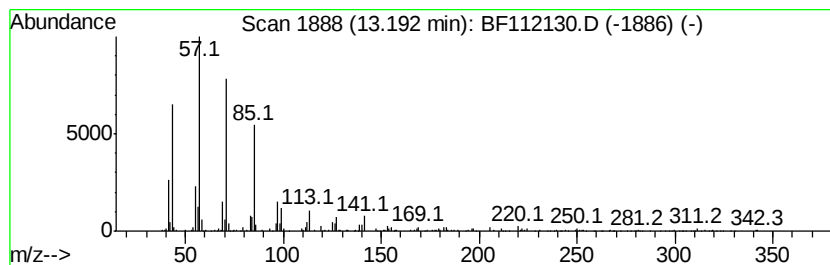
Instrument :  
BNA\_F  
ClientSampleId :  
SITE4-EAST

Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF011619.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

\*\*\*\*\*  
Peak Number 20 Tridecane, 1-iodo- Concentration Rank 6

| R.T.      | EstConc               | Area   | Relative to ISTD | R.T.        |      |
|-----------|-----------------------|--------|------------------|-------------|------|
| 13.19     | 3.43 ng               | 287892 | Chrysene-d12     | 14.02       |      |
| Hit# of 5 | Tentative ID          | MW     | MolForm          | CAS#        | Qual |
| 1         | Tridecane, 1-iodo-    | 310    | C13H27I          | 035599-77-0 | 93   |
| 2         | Hexacosane            | 366    | C26H54           | 000630-01-3 | 91   |
| 3         | Heptadecane, 9-hexyl- | 324    | C23H48           | 055124-79-3 | 90   |
| 4         | Tetracosane           | 338    | C24H50           | 000646-31-1 | 86   |
| 5         | Hexadecane            | 226    | C16H34           | 000544-76-3 | 80   |



Data Path : Z:\SVOASRV\HPCHEM1\BNA\_F\DATA\BF011819\  
 Data File : BF112130.D  
 Acq On : 18 Jan 2019 17:54  
 Operator : JU/SJ  
 Sample : K1191-04 2X  
 Misc :  
 ALS Vial : 6 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 SITE4-EAST

Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_F\METHODS\8270-BF011619.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 |
| 2-Pentanone, 4-hy... | 5.06  | 7.4     | ng    | 558599   | 1                     | 6.86  | 1514160 | 20.0 |
| unknown6.63          | 6.63  | 25.7    | ng    | 1945390  | 1                     | 6.86  | 1514160 | 20.0 |
| Tetradecane          | 9.29  | 2.4     | ng    | 285362   | 3                     | 9.89  | 2431170 | 20.0 |
| Decane, 2,3,5-tri... | 9.82  | 2.8     | ng    | 334570   | 3                     | 9.89  | 2431170 | 20.0 |
| Bacchotricuneatin c  | 10.32 | 2.8     | ng    | 344904   | 3                     | 9.89  | 2431170 | 20.0 |
| Heptadecane          | 10.79 | 3.9     | ng    | 472727   | 4                     | 11.38 | 2443270 | 20.0 |
| Phenol, 4-(1,1,3,... | 10.86 | 2.0     | ng    | 246422   | 4                     | 11.38 | 2443270 | 20.0 |
| unknown10.93         | 10.93 | 2.8     | ng    | 345816   | 4                     | 11.38 | 2443270 | 20.0 |
| unknown10.99         | 10.99 | 2.2     | ng    | 265987   | 4                     | 11.38 | 2443270 | 20.0 |
| unknown11.04         | 11.04 | 2.3     | ng    | 284486   | 4                     | 11.38 | 2443270 | 20.0 |
| 5H-Pyrrolo(3,2-d)... | 11.12 | 2.0     | ng    | 251015   | 4                     | 11.38 | 2443270 | 20.0 |
| Pentadecane          | 11.24 | 3.8     | ng    | 458846   | 4                     | 11.38 | 2443270 | 20.0 |
| Heptadecane, 2,6,... | 11.27 | 2.6     | ng    | 324318   | 4                     | 11.38 | 2443270 | 20.0 |
| Nonadecane           | 11.67 | 2.6     | ng    | 313940   | 4                     | 11.38 | 2443270 | 20.0 |
| Eicosane             | 12.07 | 2.1     | ng    | 260596   | 4                     | 11.38 | 2443270 | 20.0 |
| Tridecane, 1-iodo-   | 13.19 | 3.4     | ng    | 287892   | 5                     | 14.02 | 1679680 | 20.0 |