

Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF051915\  
 Data File : BF079365.D  
 Acq On : 20 May 2015 4:29  
 Operator : TP/IZ  
 Sample : G2281-04  
 Misc :  
 ALS Vial : 24 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 SB-04

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-BF043015.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         | 1.267       | 5             | 7           | 10           | rVB      | 1973621        | 2335370       | 100.00%         | 8.253%        |
| 2         | 1.393       | 16            | 18          | 21           | rVB      | 50166          | 83618         | 3.58%           | 0.296%        |
| 3         | 1.564       | 30            | 33          | 37           | rVB      | 96836          | 154170        | 6.60%           | 0.545%        |
| 4         | 1.644       | 39            | 40          | 48           | rVV      | 98992          | 188242        | 8.06%           | 0.665%        |
| 5         | 1.758       | 48            | 50          | 78           | rVB      | 1025416        | 1841979       | 78.87%          | 6.510%        |
| 6         | 4.879       | 321           | 323         | 330          | rBV      | 264686         | 327762        | 14.03%          | 1.158%        |
| 7         | 5.416       | 367           | 370         | 373          | rBV      | 880077         | 986948        | 42.26%          | 3.488%        |
| 8         | 5.919       | 412           | 414         | 417          | rBV      | 31219          | 30413         | 1.30%           | 0.107%        |
| 9         | 6.707       | 480           | 483         | 485          | rBV      | 1017666        | 1076990       | 46.12%          | 3.806%        |
| 10        | 6.845       | 492           | 495         | 497          | rBV      | 997868         | 1097292       | 46.99%          | 3.878%        |
| 11        | 7.130       | 518           | 520         | 522          | rBV      | 278239         | 290206        | 12.43%          | 1.026%        |
| 12        | 7.313       | 533           | 536         | 538          | rBV      | 938007         | 839724        | 35.96%          | 2.968%        |
| 13        | 7.827       | 578           | 581         | 583          | rBV      | 467988         | 644668        | 27.60%          | 2.278%        |
| 14        | 8.616       | 648           | 650         | 653          | rBV      | 25467          | 38154         | 1.63%           | 0.135%        |
| 15        | 8.708       | 655           | 658         | 659          | rBV      | 379747         | 416859        | 17.85%          | 1.473%        |
| 16        | 8.730       | 659           | 660         | 662          | rVB      | 110106         | 82031         | 3.51%           | 0.290%        |
| 17        | 9.588       | 733           | 735         | 737          | rVB      | 36673          | 33206         | 1.42%           | 0.117%        |
| 18        | 10.056      | 773           | 776         | 778          | rBV      | 1023427        | 1330498       | 56.97%          | 4.702%        |
| 19        | 10.559      | 817           | 820         | 823          | rBV      | 79585          | 95192         | 4.08%           | 0.336%        |
| 20        | 10.696      | 830           | 832         | 835          | rVB      | 111794         | 122357        | 5.24%           | 0.432%        |
| 21        | 10.879      | 846           | 848         | 850          | rVV      | 370811         | 460579        | 19.72%          | 1.628%        |
| 22        | 10.913      | 850           | 851         | 855          | rVB      | 49061          | 40940         | 1.75%           | 0.145%        |
| 23        | 11.131      | 868           | 870         | 874          | rBV3     | 22236          | 29649         | 1.27%           | 0.105%        |
| 24        | 11.462      | 898           | 899         | 901          | rVB      | 28730          | 25929         | 1.11%           | 0.092%        |
| 25        | 11.554      | 905           | 907         | 910          | rVV      | 30862          | 34912         | 1.49%           | 0.123%        |
| 26        | 11.851      | 931           | 933         | 936          | rBV2     | 693351         | 830660        | 35.57%          | 2.936%        |
| 27        | 12.056      | 949           | 951         | 955          | rBV      | 35136          | 55848         | 2.39%           | 0.197%        |
| 28        | 12.239      | 962           | 967         | 969          | rBV2     | 13000          | 25596         | 1.10%           | 0.090%        |
| 29        | 12.422      | 980           | 983         | 985          | rBV3     | 17061          | 31041         | 1.33%           | 0.110%        |
| 30        | 12.479      | 985           | 988         | 991          | rVB      | 23460          | 32315         | 1.38%           | 0.114%        |
| 31        | 12.719      | 1006          | 1009        | 1010         | rBV      | 391946         | 484743        | 20.76%          | 1.713%        |
| 32        | 12.742      | 1010          | 1011        | 1013         | rVV      | 374344         | 343132        | 14.69%          | 1.213%        |
| 33        | 12.811      | 1013          | 1017        | 1019         | rVV      | 169637         | 185414        | 7.94%           | 0.655%        |
| 34        | 12.857      | 1019          | 1021        | 1024         | rVB3     | 13882          | 26840         | 1.15%           | 0.095%        |

Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF051915\  
 Data File : BF079365.D  
 Acq On : 20 May 2015 4:29  
 Operator : TP/IZ  
 Sample : G2281-04  
 Misc :  
 ALS Vial : 24 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 SB-04

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-BF043015.M  
 Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

|    |        |      |      |      |      |         |         |        |        |
|----|--------|------|------|------|------|---------|---------|--------|--------|
| 35 | 13.142 | 1044 | 1046 | 1050 | rVB2 | 16355   | 29708   | 1.27%  | 0.105% |
| 36 | 13.348 | 1062 | 1064 | 1065 | rBV  | 71584   | 80412   | 3.44%  | 0.284% |
| 37 | 13.382 | 1065 | 1067 | 1070 | rVV  | 85101   | 109853  | 4.70%  | 0.388% |
| 38 | 13.439 | 1070 | 1072 | 1073 | rVV  | 63571   | 72334   | 3.10%  | 0.256% |
| 39 | 13.474 | 1073 | 1075 | 1077 | rVV  | 144160  | 187995  | 8.05%  | 0.664% |
| 40 | 13.508 | 1077 | 1078 | 1082 | rVB  | 71329   | 64341   | 2.76%  | 0.227% |
| 41 | 13.657 | 1088 | 1091 | 1092 | rVV3 | 13078   | 28102   | 1.20%  | 0.099% |
| 42 | 13.725 | 1095 | 1097 | 1101 | rVB2 | 39477   | 102798  | 4.40%  | 0.363% |
| 43 | 13.908 | 1111 | 1113 | 1114 | rBV  | 19127   | 25370   | 1.09%  | 0.090% |
| 44 | 14.034 | 1121 | 1124 | 1126 | rBV  | 71641   | 105981  | 4.54%  | 0.375% |
| 45 | 14.068 | 1126 | 1127 | 1129 | rVV  | 41701   | 61613   | 2.64%  | 0.218% |
| 46 | 14.125 | 1131 | 1132 | 1136 | rVB2 | 44833   | 82914   | 3.55%  | 0.293% |
| 47 | 14.217 | 1138 | 1140 | 1142 | rBV  | 603148  | 723891  | 31.00% | 2.558% |
| 48 | 14.297 | 1145 | 1147 | 1149 | rBV2 | 57469   | 64286   | 2.75%  | 0.227% |
| 49 | 14.342 | 1149 | 1151 | 1153 | rVB  | 69936   | 94906   | 4.06%  | 0.335% |
| 50 | 14.400 | 1153 | 1156 | 1157 | rBV  | 47287   | 58569   | 2.51%  | 0.207% |
| 51 | 14.434 | 1157 | 1159 | 1162 | rVV  | 27068   | 36284   | 1.55%  | 0.128% |
| 52 | 14.502 | 1162 | 1165 | 1167 | rVV  | 700995  | 830299  | 35.55% | 2.934% |
| 53 | 14.548 | 1167 | 1169 | 1170 | rVV2 | 16620   | 31685   | 1.36%  | 0.112% |
| 54 | 14.594 | 1172 | 1173 | 1177 | rVB2 | 20280   | 28985   | 1.24%  | 0.102% |
| 55 | 14.662 | 1177 | 1179 | 1181 | rBV  | 42453   | 53080   | 2.27%  | 0.188% |
| 56 | 14.708 | 1181 | 1183 | 1186 | rVB  | 1260793 | 1509744 | 64.65% | 5.336% |
| 57 | 14.788 | 1186 | 1190 | 1192 | rBV2 | 55024   | 86025   | 3.68%  | 0.304% |
| 58 | 14.891 | 1196 | 1199 | 1200 | rVV3 | 62153   | 116693  | 5.00%  | 0.412% |
| 59 | 14.914 | 1200 | 1201 | 1204 | rVB  | 105685  | 127007  | 5.44%  | 0.449% |
| 60 | 15.005 | 1207 | 1209 | 1211 | rVV  | 63718   | 87179   | 3.73%  | 0.308% |
| 61 | 15.040 | 1211 | 1212 | 1217 | rVV2 | 96682   | 155757  | 6.67%  | 0.550% |
| 62 | 15.120 | 1217 | 1219 | 1221 | rVV2 | 23929   | 45256   | 1.94%  | 0.160% |
| 63 | 15.154 | 1221 | 1222 | 1224 | rVB  | 72862   | 71236   | 3.05%  | 0.252% |
| 64 | 15.200 | 1224 | 1226 | 1229 | rBV  | 60014   | 75794   | 3.25%  | 0.268% |
| 65 | 15.405 | 1241 | 1244 | 1245 | rBV2 | 20730   | 37452   | 1.60%  | 0.132% |
| 66 | 15.554 | 1254 | 1257 | 1260 | rVB  | 57718   | 92647   | 3.97%  | 0.327% |
| 67 | 15.634 | 1262 | 1264 | 1265 | rBV2 | 19746   | 29881   | 1.28%  | 0.106% |
| 68 | 15.680 | 1265 | 1268 | 1270 | rBV  | 79012   | 118808  | 5.09%  | 0.420% |
| 69 | 15.725 | 1270 | 1272 | 1275 | rVV2 | 70317   | 137105  | 5.87%  | 0.485% |
| 70 | 15.817 | 1278 | 1280 | 1282 | rVB  | 51812   | 78079   | 3.34%  | 0.276% |
| 71 | 15.885 | 1283 | 1286 | 1291 | rBV3 | 203261  | 330710  | 14.16% | 1.169% |

Data Path : Z:\HPCHEM1\BNA F\DATA\BF051915\  
Data File : BF079365.D  
Acq On : 20 May 2015 4:29  
Operator : TP/IZ  
Sample : G2281-04  
Misc :  
ALS Vial : 24 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
SB-04

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-BF043015.M  
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

|    |        |      |      |      |      |        |         |        |        |
|----|--------|------|------|------|------|--------|---------|--------|--------|
| 72 | 16.000 | 1292 | 1296 | 1298 | rVV2 | 652572 | 1345675 | 57.62% | 4.756% |
| 73 | 16.034 | 1298 | 1299 | 1304 | rVB2 | 389903 | 437346  | 18.73% | 1.546% |
| 74 | 16.125 | 1304 | 1307 | 1308 | rBV2 | 64993  | 81404   | 3.49%  | 0.288% |
| 75 | 16.183 | 1310 | 1312 | 1314 | rVB  | 39982  | 44267   | 1.90%  | 0.156% |
| 76 | 16.297 | 1320 | 1322 | 1324 | rBV2 | 41306  | 57101   | 2.45%  | 0.202% |
| 77 | 16.411 | 1329 | 1332 | 1333 | rBV2 | 42449  | 84756   | 3.63%  | 0.300% |
| 78 | 16.445 | 1333 | 1335 | 1336 | rVV2 | 54196  | 67380   | 2.89%  | 0.238% |
| 79 | 16.491 | 1337 | 1339 | 1341 | rVV  | 138091 | 204189  | 8.74%  | 0.722% |
| 80 | 16.537 | 1341 | 1343 | 1346 | rVV  | 68535  | 103563  | 4.43%  | 0.366% |
| 81 | 16.605 | 1348 | 1349 | 1351 | rVV2 | 56591  | 69978   | 3.00%  | 0.247% |
| 82 | 16.651 | 1351 | 1353 | 1354 | rVV2 | 54708  | 99444   | 4.26%  | 0.351% |
| 83 | 16.685 | 1354 | 1356 | 1360 | rVV2 | 106237 | 236968  | 10.15% | 0.837% |
| 84 | 16.754 | 1360 | 1362 | 1365 | rVB  | 37379  | 50797   | 2.18%  | 0.180% |
| 85 | 16.880 | 1371 | 1373 | 1374 | rBV2 | 36087  | 55250   | 2.37%  | 0.195% |
| 86 | 17.074 | 1388 | 1390 | 1391 | rBV  | 43693  | 55795   | 2.39%  | 0.197% |
| 87 | 17.143 | 1394 | 1396 | 1398 | rBV  | 33226  | 39917   | 1.71%  | 0.141% |
| 88 | 17.268 | 1402 | 1407 | 1413 | rBV  | 457924 | 1099608 | 47.08% | 3.886% |
| 89 | 17.383 | 1415 | 1417 | 1420 | rVB  | 132442 | 171039  | 7.32%  | 0.604% |
| 90 | 17.474 | 1421 | 1425 | 1429 | rVV3 | 114441 | 321008  | 13.75% | 1.134% |
| 91 | 17.588 | 1432 | 1435 | 1437 | rVV  | 251564 | 395526  | 16.94% | 1.398% |
| 92 | 17.646 | 1437 | 1440 | 1443 | rVB  | 476498 | 562896  | 24.10% | 1.989% |
| 93 | 17.703 | 1443 | 1445 | 1452 | rBV2 | 450041 | 798625  | 34.20% | 2.822% |
| 94 | 18.023 | 1471 | 1473 | 1474 | rBV  | 45937  | 54328   | 2.33%  | 0.192% |
| 95 | 18.240 | 1490 | 1492 | 1495 | rBV2 | 107072 | 174439  | 7.47%  | 0.616% |
| 96 | 19.086 | 1563 | 1566 | 1572 | rBV2 | 193536 | 413883  | 17.72% | 1.463% |
| 97 | 19.269 | 1578 | 1582 | 1584 | rBV3 | 84424  | 227593  | 9.75%  | 0.804% |
| 98 | 19.486 | 1598 | 1601 | 1606 | rVB  | 173469 | 323186  | 13.84% | 1.142% |
| 99 | 19.646 | 1613 | 1615 | 1618 | rBV3 | 61070  | 123523  | 5.29%  | 0.437% |

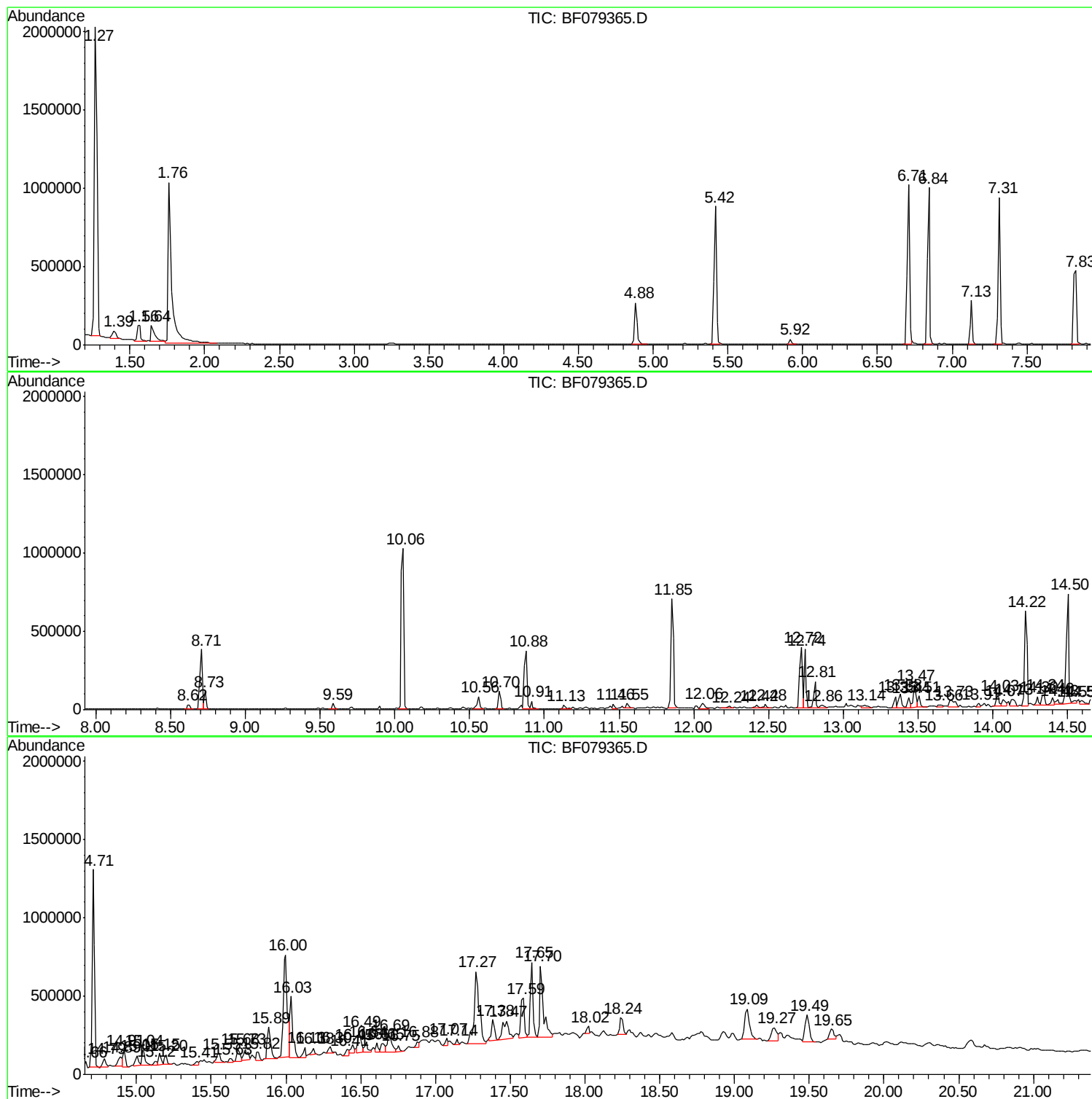
Sum of corrected areas: 28295540

Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF051915\  
Data File : BF079365.D  
Acq On : 20 May 2015 4:29  
Operator : TP/IZ  
Sample : G2281-04  
Misc :  
ALS Vial : 24 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampled :  
SB-04

Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF043015.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P



Data Path : Z:\HPCHEM1\BNA F\DATA\BF051915\  
Data File : BF079365.D  
Acq On : 20 May 2015 4:29  
Operator : TP/IZ  
Sample : G2281-04  
Misc :  
ALS Vial : 24 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
SB-04

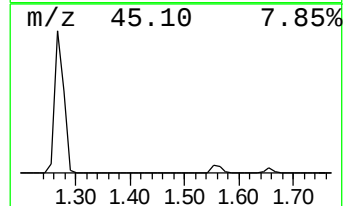
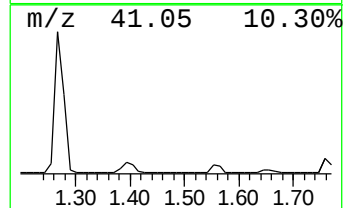
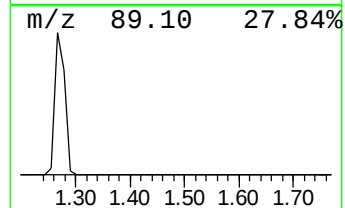
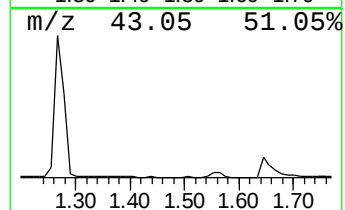
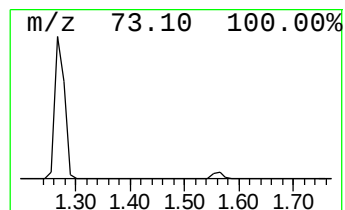
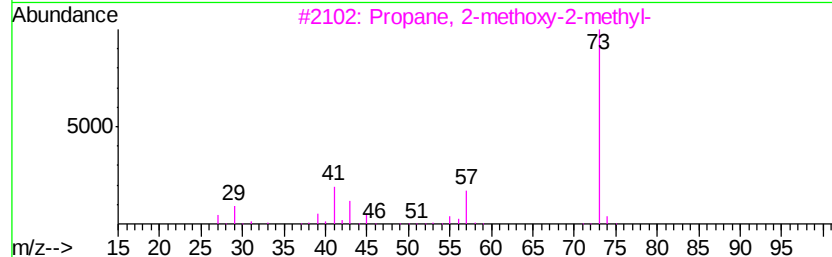
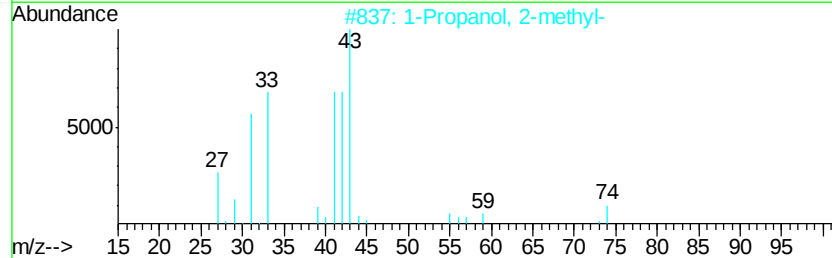
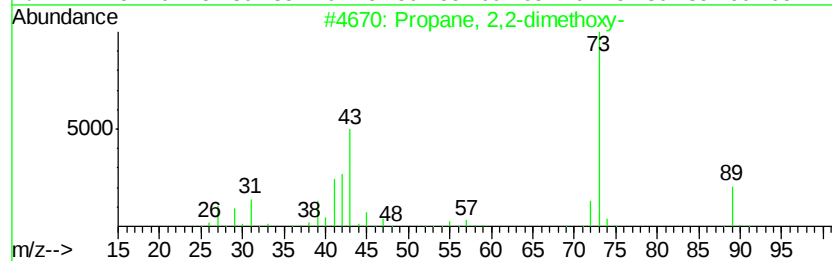
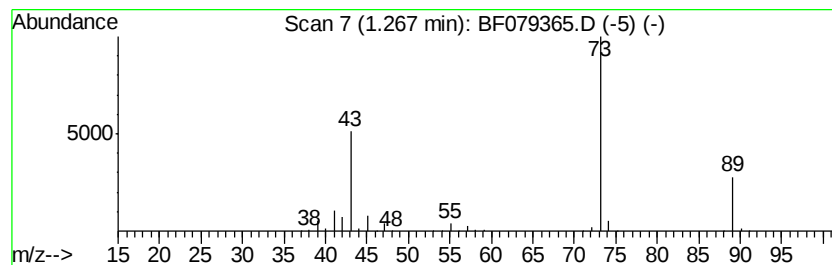
Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF043015.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 1 Propane, 2,2-dimethoxy- Concentration Rank 1

| R.T. | EstConc   | Area    | Relative to ISTD       | R.T. |
|------|-----------|---------|------------------------|------|
| 1.27 | 160.95 ng | 2335370 | 1,4-Dichlorobenzene-d4 | 7.13 |

| Hit# | of | Tentative ID                        | MW  | MolForm  | CAS#        | Qual |
|------|----|-------------------------------------|-----|----------|-------------|------|
| 1    | 5  | Propane, 2,2-dimethoxy-             | 104 | C5H12O2  | 000077-76-9 | 72   |
| 2    |    | 1-Propanol, 2-methyl-               | 74  | C4H10O   | 000078-83-1 | 9    |
| 3    |    | Propane, 2-methoxy-2-methyl-        | 88  | C5H12O   | 001634-04-4 | 9    |
| 4    |    | 2-Hydroxy-2-methylbutyric acid      | 118 | C5H10O3  | 003739-30-8 | 9    |
| 5    |    | 1-Hexen-4-ol, 1-chloro-3,5-dimet... | 162 | C8H15ClO | 100244-09-5 | 9    |



Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF051915\  
Data File : BF079365.D  
Acq On : 20 May 2015 4:29  
Operator : TP/IZ  
Sample : G2281-04  
Misc :  
ALS Vial : 24 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
SB-04

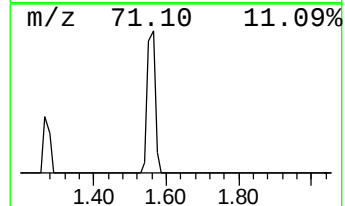
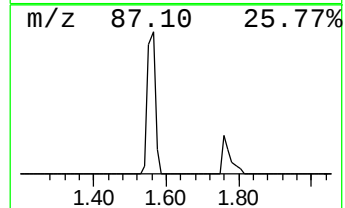
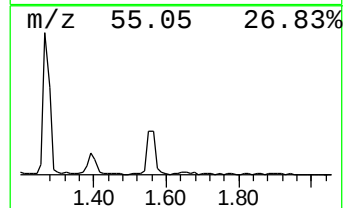
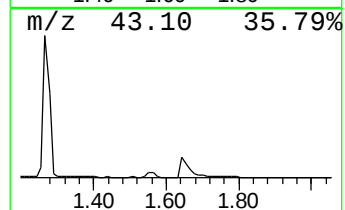
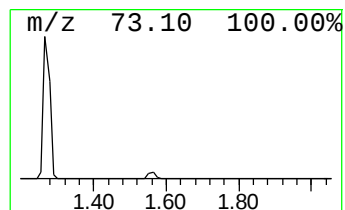
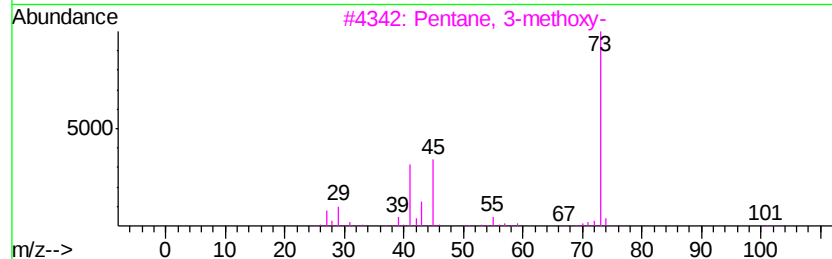
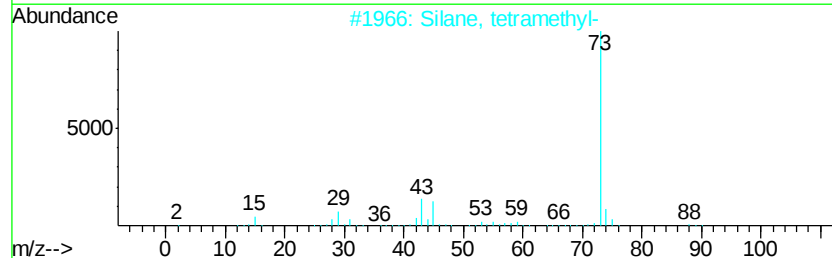
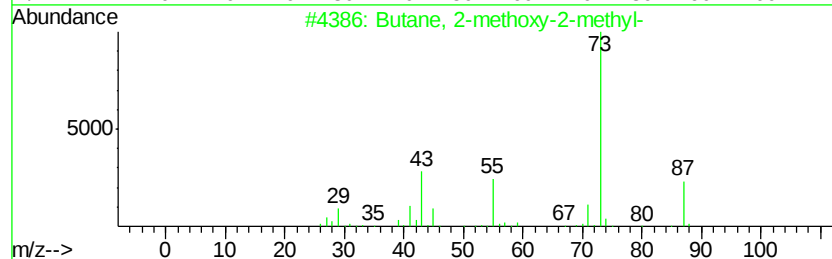
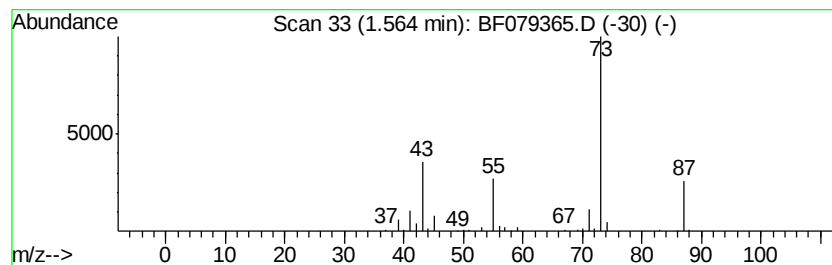
Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF043015.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 3 Butane, 2-methoxy-2-methyl- Concentration Rank 7

| R.T. | EstConc  | Area   | Relative to ISTD       | R.T. |
|------|----------|--------|------------------------|------|
| 1.56 | 10.62 ng | 154170 | 1,4-Dichlorobenzene-d4 | 7.13 |

| Hit# | of | Tentative ID                | MW  | MolForm | CAS#        | Qual |
|------|----|-----------------------------|-----|---------|-------------|------|
| 1    | 5  | Butane, 2-methoxy-2-methyl- | 102 | C6H14O  | 000994-05-8 | 78   |
| 2    |    | Silane, tetramethyl-        | 88  | C4H12Si | 000075-76-3 | 25   |
| 3    |    | Pentane, 3-methoxy-         | 102 | C6H14O  | 036839-67-5 | 23   |
| 4    |    | 3-Hexanol, 2-methyl-        | 116 | C7H16O  | 000617-29-8 | 17   |
| 5    |    | 1,3-Dioxolane, 2-methyl-    | 88  | C4H8O2  | 000497-26-7 | 9    |



Data Path : Z:\HPCHEM1\BNA F\DATA\BF051915\  
Data File : BF079365.D  
Acq On : 20 May 2015 4:29  
Operator : TP/IZ  
Sample : G2281-04  
Misc :  
ALS Vial : 24 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
SB-04

Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF043015.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

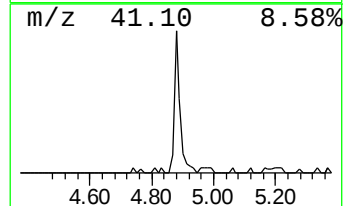
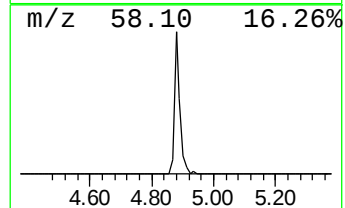
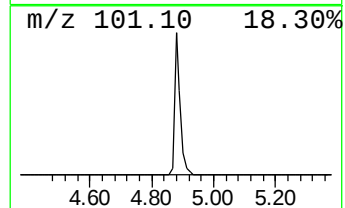
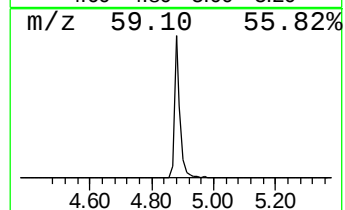
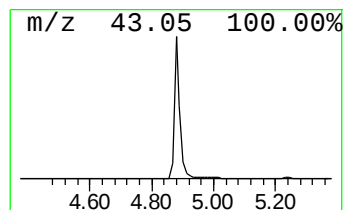
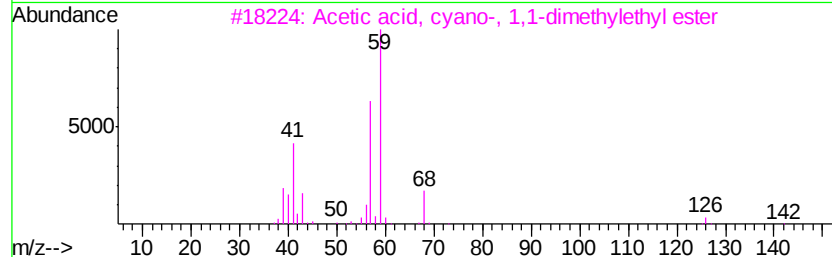
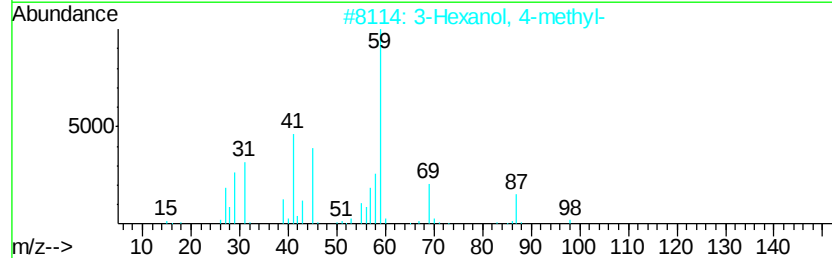
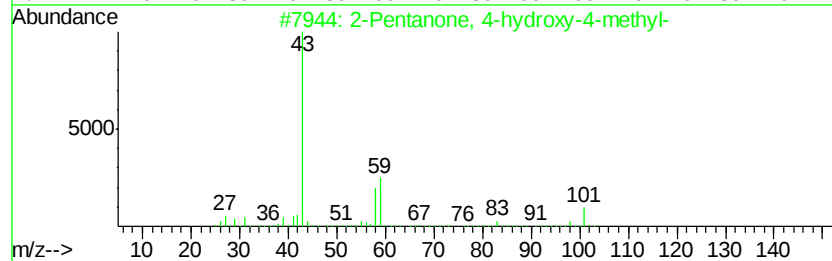
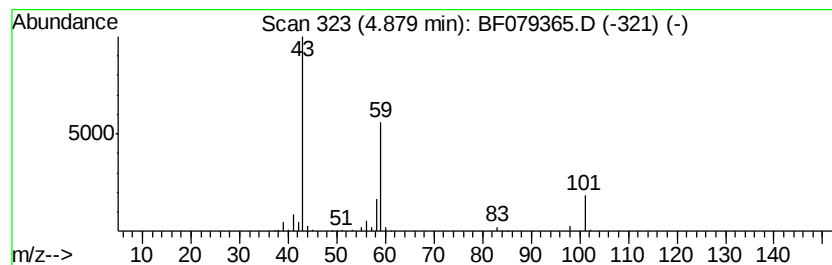
TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 6 2-Pentanone, 4-hydroxy-4-me... Concentration Rank 5

| R.T. | EstConc  | Area   | Relative to ISTD       | R.T. |
|------|----------|--------|------------------------|------|
| 4.88 | 22.59 ng | 327762 | 1,4-Dichlorobenzene-d4 | 7.13 |

| Hit# | of | Tentative ID                         | MW  | MolForm  | CAS#        | Qual |
|------|----|--------------------------------------|-----|----------|-------------|------|
| 1    | 5  | 2-Pentanone, 4-hydroxy-4-methyl-     | 116 | C6H12O2  | 000123-42-2 | 59   |
| 2    |    | 3-Hexanol, 4-methyl-                 | 116 | C7H16O   | 000615-29-2 | 33   |
| 3    |    | Acetic acid, cyano-, 1,1-dimethyl... | 141 | C7H11NO2 | 001116-98-9 | 25   |
| 4    |    | 1-Propen-2-ol, acetate               | 100 | C5H8O2   | 000108-22-5 | 10   |
| 5    |    | Morpholine, 4-methyl-                | 101 | C5H11NO  | 000109-02-4 | 9    |



Data Path : Z:\HPCHEM1\BNA F\DATA\BF051915\  
Data File : BF079365.D  
Acq On : 20 May 2015 4:29  
Operator : TP/IZ  
Sample : G2281-04  
Misc :  
ALS Vial : 24 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
SB-04

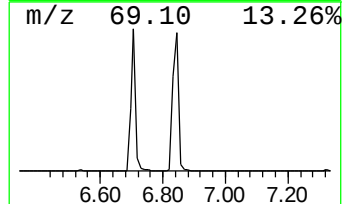
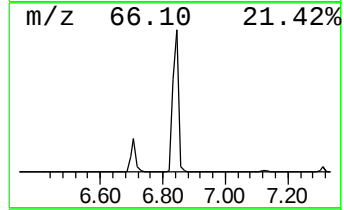
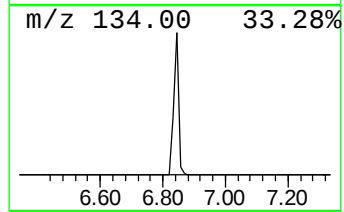
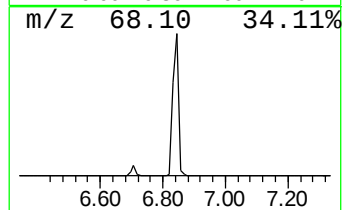
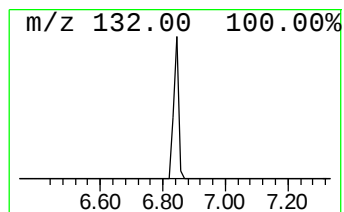
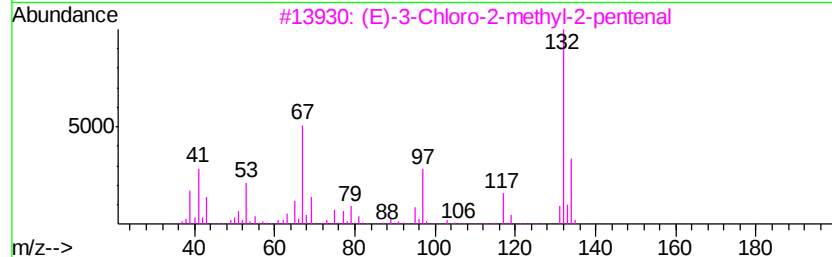
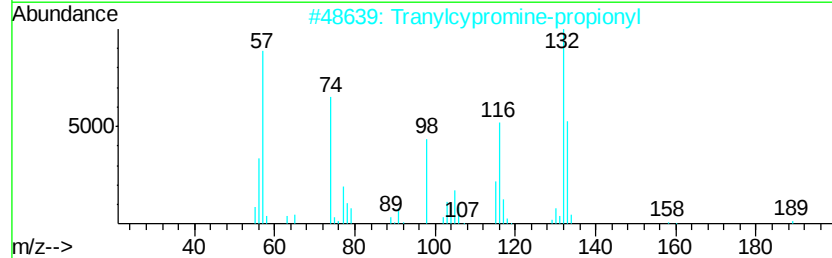
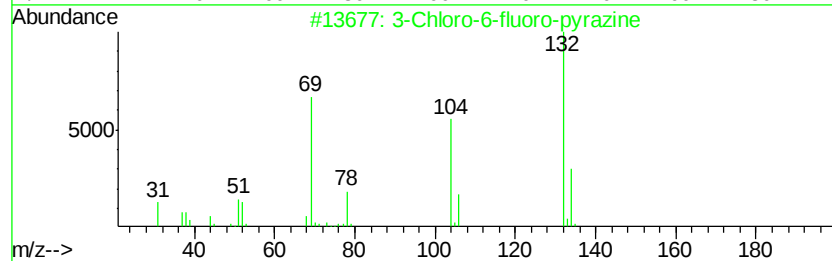
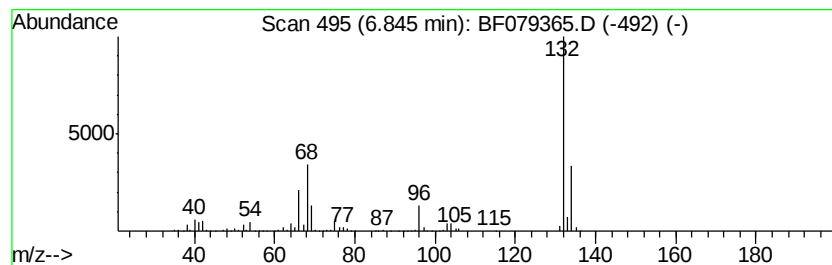
Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF043015.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 7 unknown6.84 Concentration Rank 3

| R.T. | EstConc  | Area    | Relative to ISTD       | R.T. |
|------|----------|---------|------------------------|------|
| 6.84 | 75.62 ng | 1097290 | 1,4-Dichlorobenzene-d4 | 7.13 |

| Hit# | of | 5 | Tentative ID                     | MW  | MolForm   | CAS#         | Qual |
|------|----|---|----------------------------------|-----|-----------|--------------|------|
| 1    |    |   | 3-Chloro-6-fluoro-pyrazine       | 132 | C4H2ClFN2 | 1000146-10-7 | 38   |
| 2    |    |   | Tranylcypromine-propionyl        | 189 | C12H15NO  | 1000123-86-3 | 12   |
| 3    |    |   | (E)-3-Chloro-2-methyl-2-pentenal | 132 | C6H9ClO   | 031357-76-3  | 12   |
| 4    |    |   | 5-Aminoindole                    | 132 | C8H8N2    | 005192-03-0  | 12   |
| 5    |    |   | 5-Fluoro-2-chloropyrimidine      | 132 | C4H2ClFN2 | 062802-42-0  | 9    |



Data Path : Z:\HPCHEM1\BNA F\DATA\BF051915\  
Data File : BF079365.D  
Acq On : 20 May 2015 4:29  
Operator : TP/IZ  
Sample : G2281-04  
Misc :  
ALS Vial : 24 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
SB-04

Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF043015.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

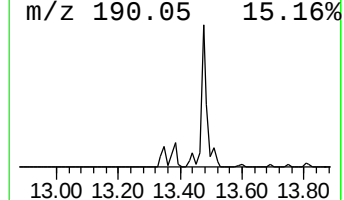
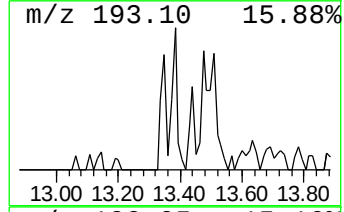
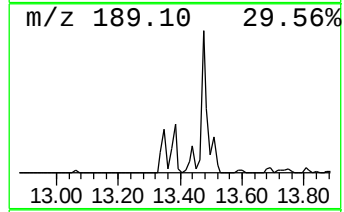
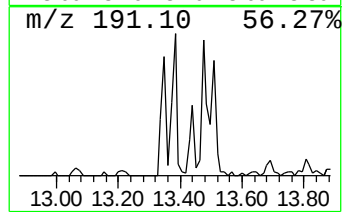
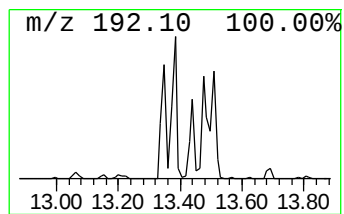
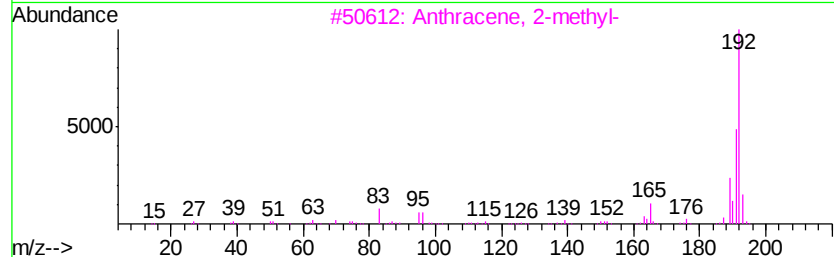
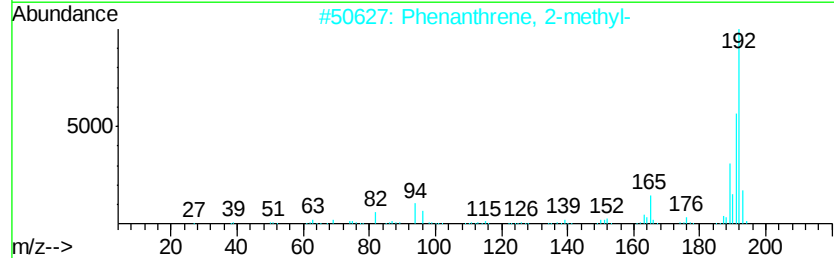
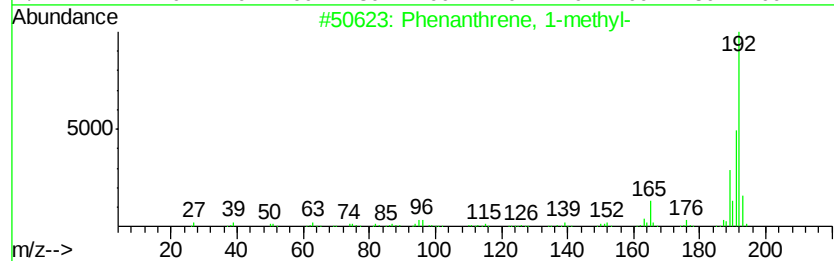
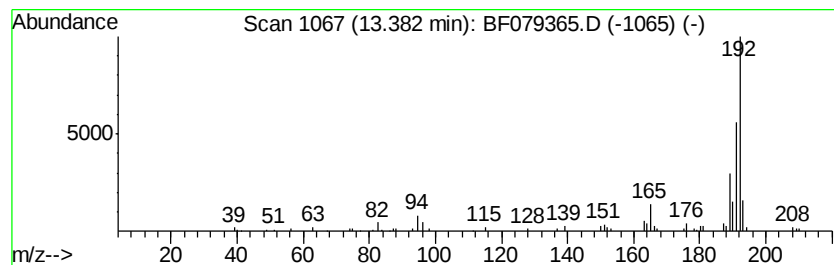
TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 9 Phenanthrene, 1-methyl- Concentration Rank 14

| R.T.  | EstConc | Area   | Relative to ISTD | R.T.  |
|-------|---------|--------|------------------|-------|
| 13.38 | 4.53 ng | 109853 | Phenanthrene-d10 | 12.72 |

| Hit# | of | Tentative ID                           | MW  | MolForm | CAS#        | Qual |
|------|----|----------------------------------------|-----|---------|-------------|------|
| 1    | 5  | Phenanthrene, 1-methyl-                | 192 | C15H12  | 000832-69-9 | 96   |
| 2    |    | Phenanthrene, 2-methyl-                | 192 | C15H12  | 002531-84-2 | 96   |
| 3    |    | Anthracene, 2-methyl-                  | 192 | C15H12  | 000613-12-7 | 95   |
| 4    |    | 1H-Cyclopropa[1,1]phenanthrene, 1a,... | 192 | C15H12  | 000949-41-7 | 94   |
| 5    |    | 1H-Indene, 2-phenyl-                   | 192 | C15H12  | 004505-48-0 | 93   |



Data Path : Z:\HPCHEM1\BNA F\DATA\BF051915\  
Data File : BF079365.D  
Acq On : 20 May 2015 4:29  
Operator : TP/IZ  
Sample : G2281-04  
Misc :  
ALS Vial : 24 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
SB-04

Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF043015.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

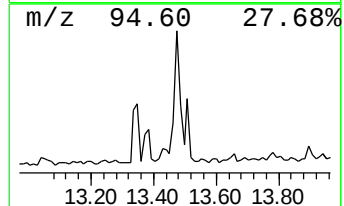
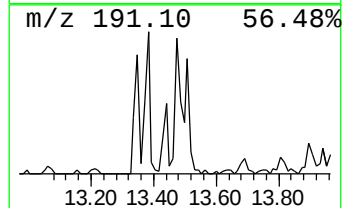
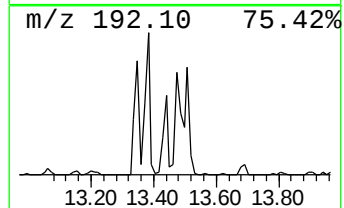
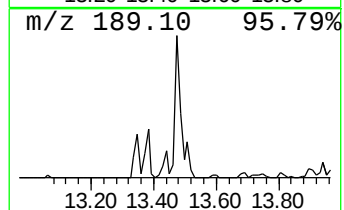
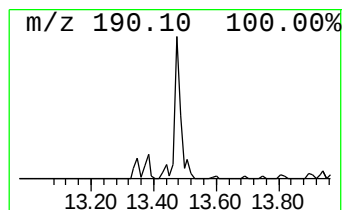
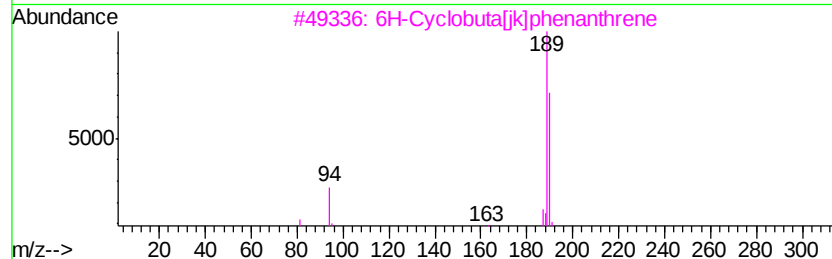
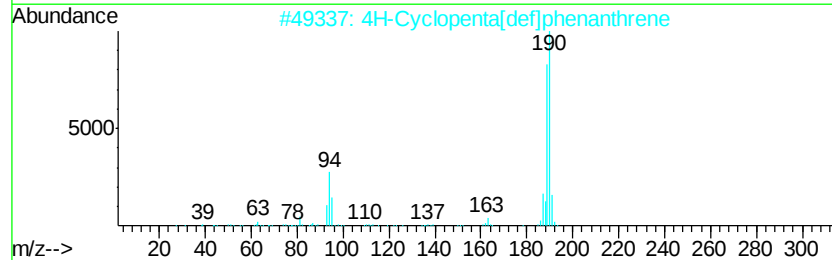
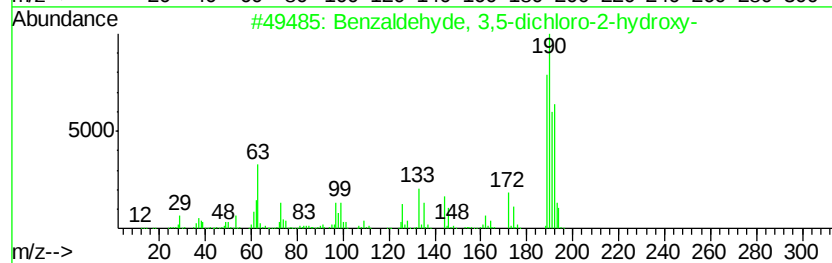
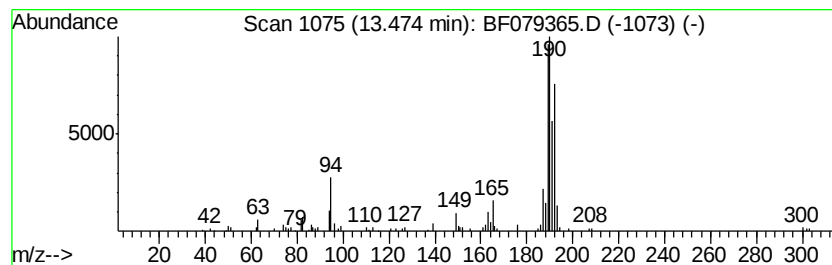
TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 10 Benzaldehyde, 3,5-dichloro-... Concentration Rank 10

| R.T.  | EstConc | Area   | Relative to ISTD | R.T.  |
|-------|---------|--------|------------------|-------|
| 13.47 | 7.76 ng | 187995 | Phenanthrene-d10 | 12.72 |

| Hit# | of | 5 | Tentative ID                         | MW  | MolForm   | CAS#        | Qual |
|------|----|---|--------------------------------------|-----|-----------|-------------|------|
| 1    |    |   | Benzaldehydve, 3,5-dichloro-2-hvd... | 190 | C7H4Cl2O2 | 000090-60-8 | 64   |
| 2    |    |   | 4H-Cyclopenta[def]phenanthrene       | 190 | C15H10    | 000203-64-5 | 64   |
| 3    |    |   | 6H-Cyclobuta[ik]phenanthrene         | 190 | C15H10    | 083469-43-6 | 49   |
| 4    |    |   | Phenanthrene, 4-methyl-              | 192 | C15H12    | 000832-64-4 | 42   |
| 5    |    |   | 8,9-Dihydrocyclopenta[def]phenan...  | 192 | C15H12    | 027410-55-5 | 42   |



Data Path : Z:\HPCHEM1\BNA F\DATA\BF051915\  
Data File : BF079365.D  
Acq On : 20 May 2015 4:29  
Operator : TP/IZ  
Sample : G2281-04  
Misc :  
ALS Vial : 24 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
SB-04

Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF043015.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

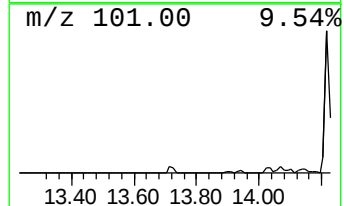
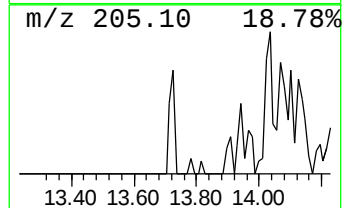
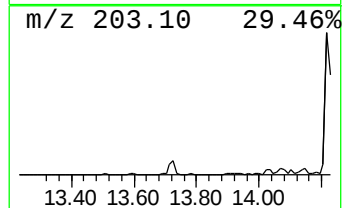
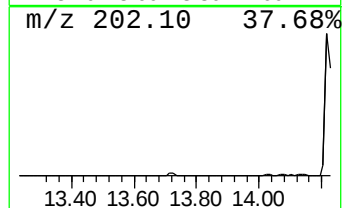
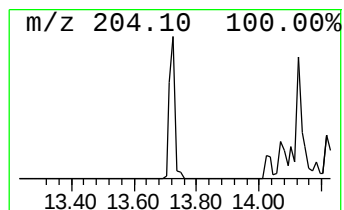
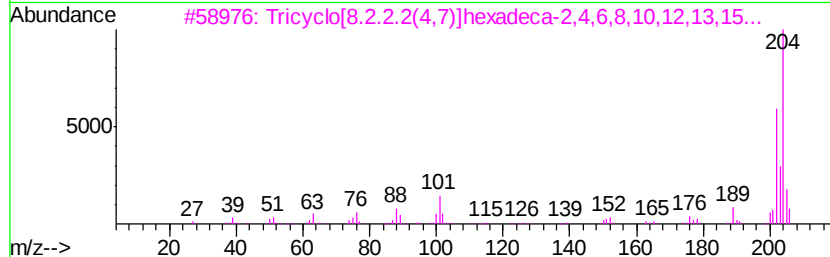
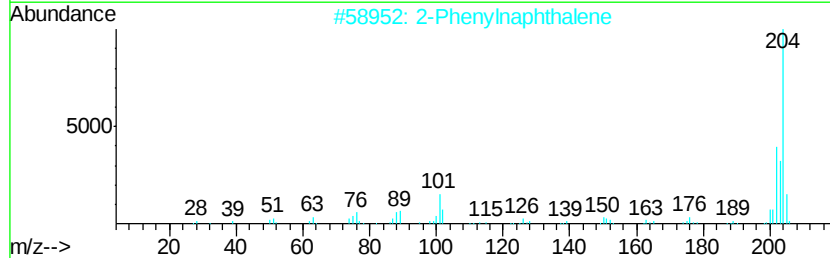
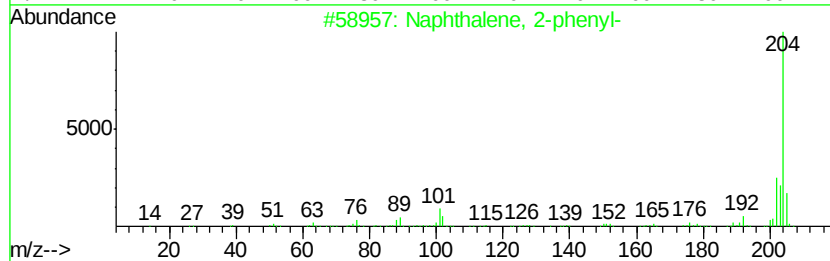
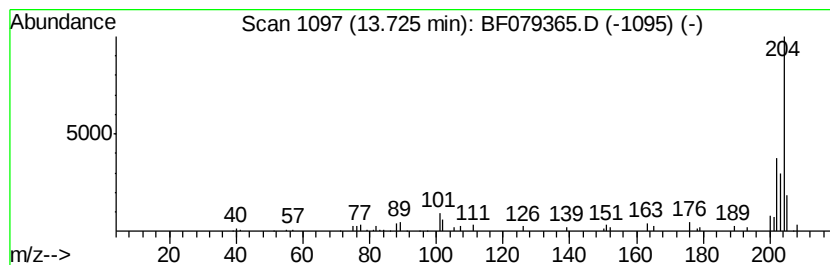
TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 11 Naphthalene, 2-phenyl- Concentration Rank 18

| R.T.  | EstConc | Area   | Relative to ISTD | R.T.  |
|-------|---------|--------|------------------|-------|
| 13.73 | 4.24 ng | 102798 | Phenanthrene-d10 | 12.72 |

| Hit# | of | Tentative ID                        | MW  | MolForm | CAS#        | Qual |
|------|----|-------------------------------------|-----|---------|-------------|------|
| 1    | 5  | Naphthalene, 2-phenyl-              | 204 | C16H12  | 000612-94-2 | 81   |
| 2    |    | 2-Phenylnaphthalene                 | 204 | C16H12  | 035465-71-5 | 76   |
| 3    |    | Tricyclo[8.2.2.2(4,7)]hexadeca-2... | 204 | C16H12  | 006572-60-7 | 64   |
| 4    |    | Benzene, 1,1'-(1-buten-3-yne-1,4... | 204 | C16H12  | 013141-45-2 | 52   |
| 5    |    | 5,16[1',2']:8,13[1'',2'']-Dibenz... | 408 | C32H24  | 005672-97-9 | 50   |



Data Path : Z:\HPCHEM1\BNA F\DATA\BF051915\  
Data File : BF079365.D  
Acq On : 20 May 2015 4:29  
Operator : TP/IZ  
Sample : G2281-04  
Misc :  
ALS Vial : 24 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
SB-04

Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF043015.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

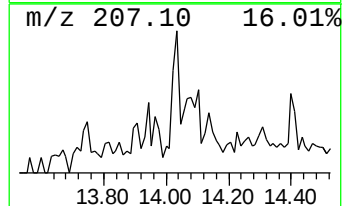
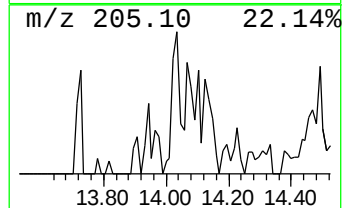
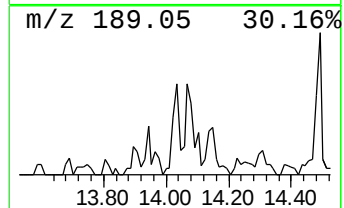
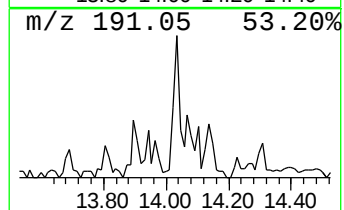
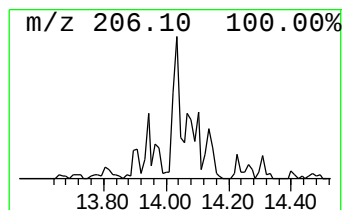
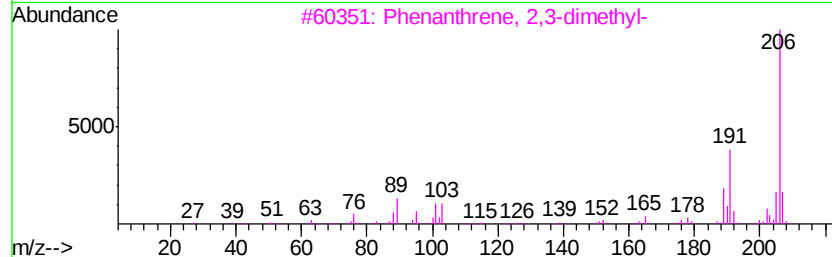
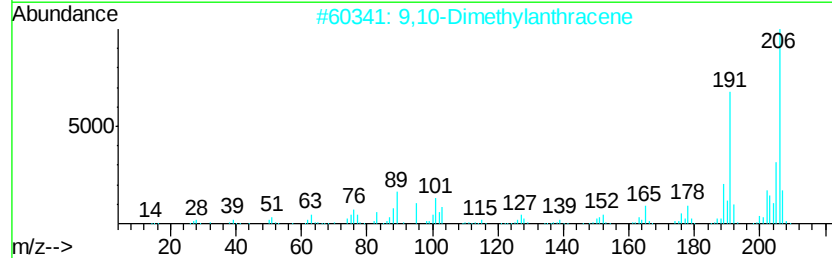
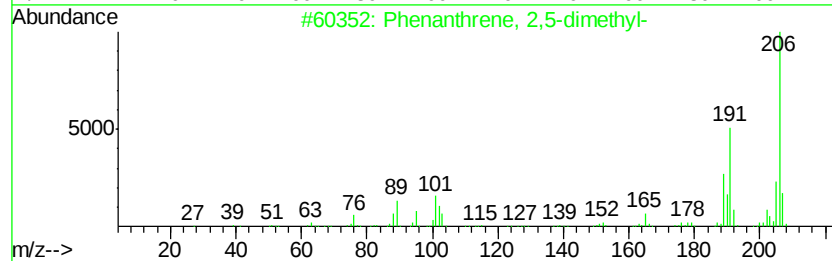
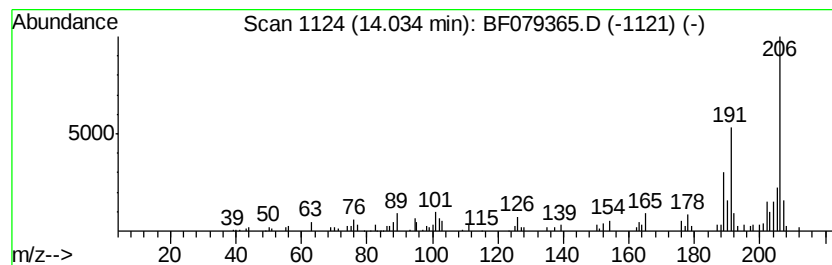
TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 12 Phenanthrene, 2,5-dimethyl- Concentration Rank 15

| R.T.  | EstConc | Area   | Relative to ISTD | R.T.  |
|-------|---------|--------|------------------|-------|
| 14.03 | 4.37 ng | 105981 | Phenanthrene-d10 | 12.72 |

| Hit# | of | Tentative ID                      | MW  | MolForm | CAS#        | Qual |
|------|----|-----------------------------------|-----|---------|-------------|------|
| 1    | 5  | Phenanthrene, 2,5-dimethyl-       | 206 | C16H14  | 003674-66-6 | 96   |
| 2    |    | 9,10-Dimethylantracene            | 206 | C16H14  | 000781-43-1 | 95   |
| 3    |    | Phenanthrene, 2,3-dimethyl-       | 206 | C16H14  | 003674-65-5 | 93   |
| 4    |    | Phenanthrene, 1,7-dimethyl-       | 206 | C16H14  | 000483-87-4 | 90   |
| 5    |    | 1,3-Diphenyl-3-methylcyclopropene | 206 | C16H14  | 086544-79-8 | 90   |



Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF051915\  
Data File : BF079365.D  
Acq On : 20 May 2015 4:29  
Operator : TP/IZ  
Sample : G2281-04  
Misc :  
ALS Vial : 24 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
SB-04

Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF043015.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

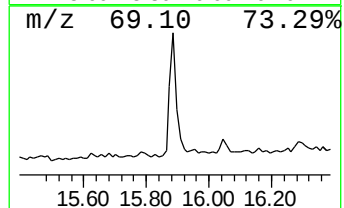
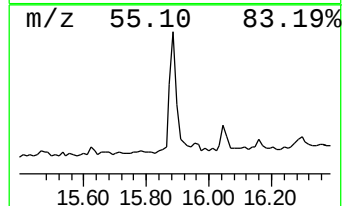
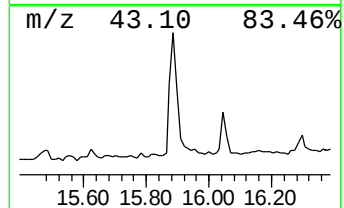
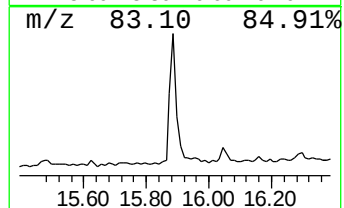
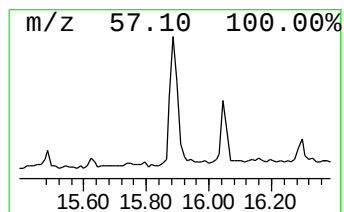
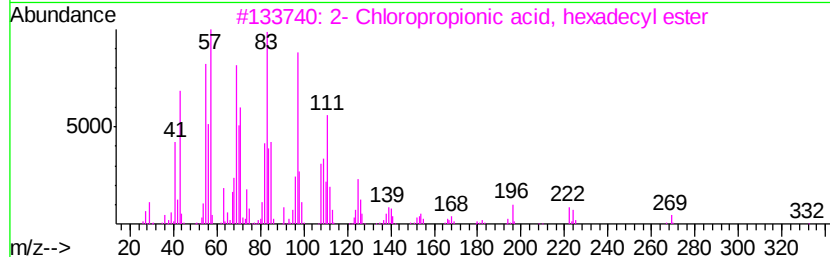
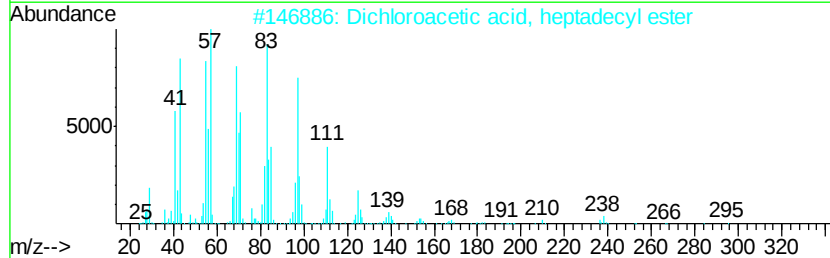
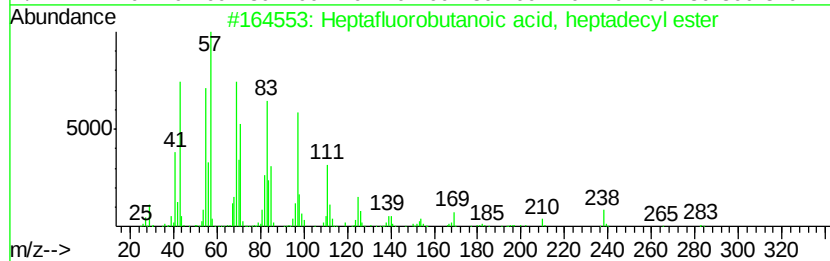
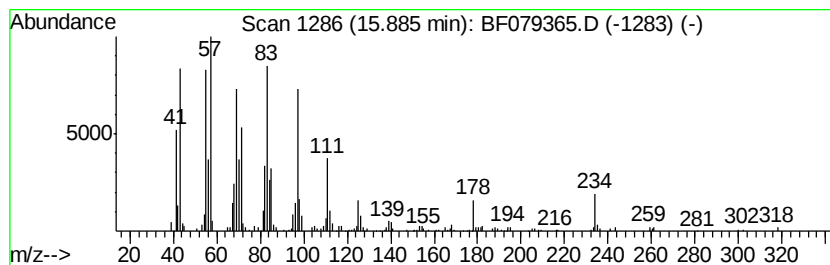
TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 14 Heptafluorobutanoic acid, h... Concentration Rank 13

| R.T.  | EstConc | Area   | Relative to ISTD | R.T.  |
|-------|---------|--------|------------------|-------|
| 15.89 | 4.92 ng | 330710 | Chrysene-d12     | 16.00 |

| Hit# | of | Tentative ID                        | MW  | MolForm     | CAS#         | Qual |
|------|----|-------------------------------------|-----|-------------|--------------|------|
| 1    | 5  | Heptafluorobutanoic acid, heptad... | 452 | C21H35F7O2  | 1000282-97-3 | 93   |
| 2    |    | Dichloroacetic acid, heptadecyl ... | 366 | C19H36Cl2O2 | 1000282-98-2 | 93   |
| 3    |    | 2- Chloropropionic acid, hexadec... | 332 | C19H37ClO2  | 086711-81-1  | 90   |
| 4    |    | Trifluoroacetic acid, n-octadecy... | 366 | C20H37F3O2  | 079392-43-1  | 90   |
| 5    |    | Heptafluorobutyric acid, n-penta... | 424 | C19H31F7O2  | 1000216-79-3 | 90   |



Data Path : Z:\HPCHEM1\BNA F\DATA\BF051915\  
Data File : BF079365.D  
Acq On : 20 May 2015 4:29  
Operator : TP/IZ  
Sample : G2281-04  
Misc :  
ALS Vial : 24 Sample Multiplier: 1

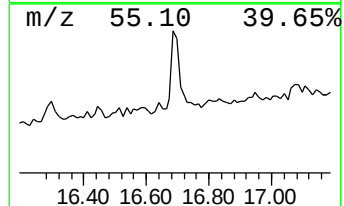
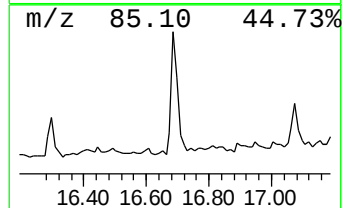
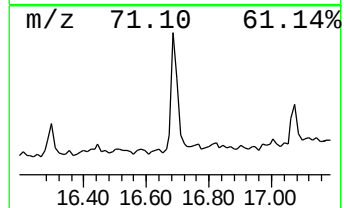
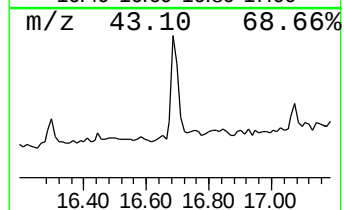
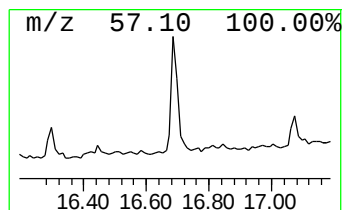
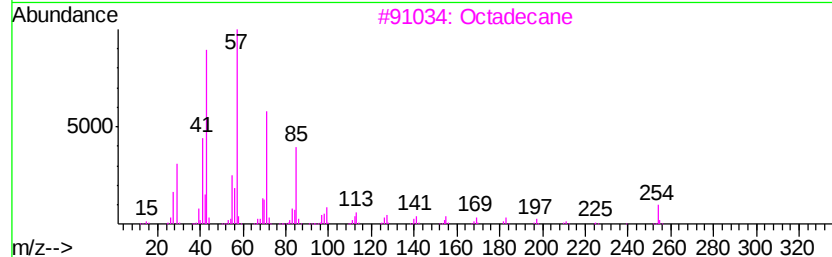
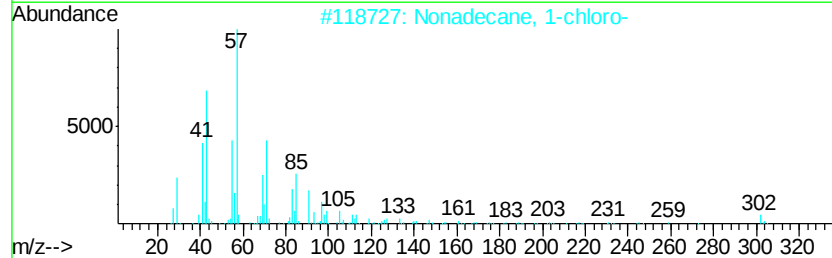
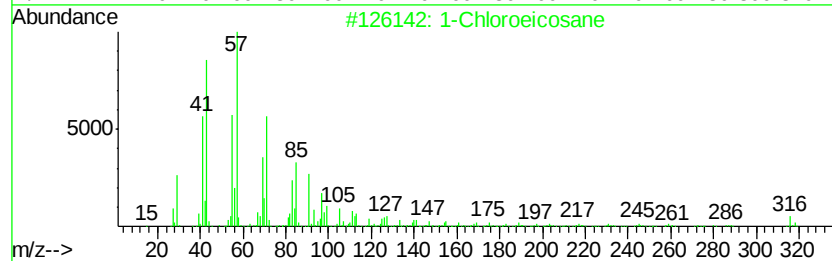
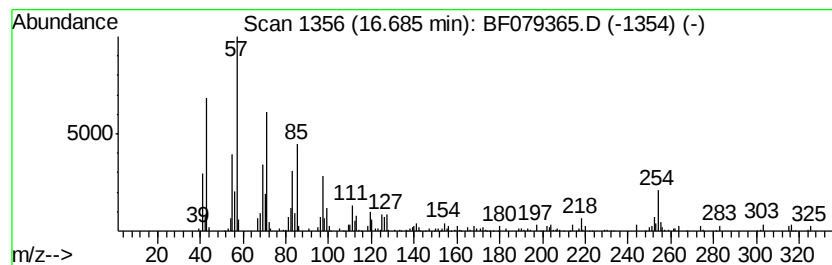
Instrument :  
BNA\_F  
ClientSampleId :  
SB-04

Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF043015.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 15 1-Chloroeicosane Concentration Rank 20

| R.T.      | EstConc               | Area   | Relative to ISTD | R.T.        |      |
|-----------|-----------------------|--------|------------------|-------------|------|
| 16.69     | 3.52 ng               | 236968 | Chrysene-d12     | 16.00       |      |
| Hit# of 5 | Tentative ID          | MW     | MolForm          | CAS#        | Qual |
| 1         | 1-Chloroeicosane      | 316    | C20H41Cl         | 042217-02-7 | 89   |
| 2         | Nonadecane, 1-chloro- | 302    | C19H39Cl         | 062016-76-6 | 83   |
| 3         | Octadecane            | 254    | C18H38           | 000593-45-3 | 70   |
| 4         | 2-Bromo dodecane      | 248    | C12H25Br         | 013187-99-0 | 60   |
| 5         | Tricosane             | 324    | C23H48           | 000638-67-5 | 55   |



Data Path : Z:\HPCHEM1\BNA F\DATA\BF051915\  
Data File : BF079365.D  
Acq On : 20 May 2015 4:29  
Operator : TP/IZ  
Sample : G2281-04  
Misc :  
ALS Vial : 24 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
SB-04

Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF043015.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

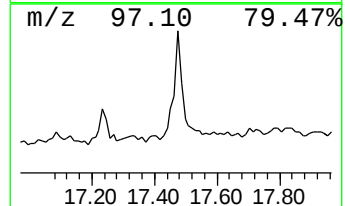
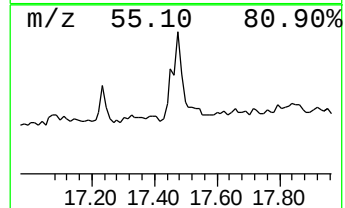
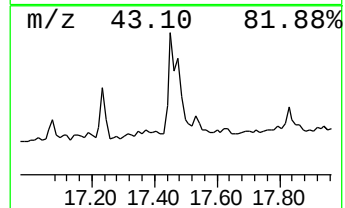
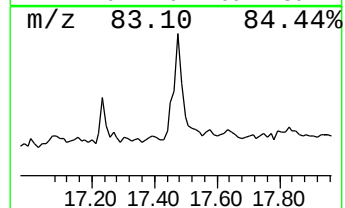
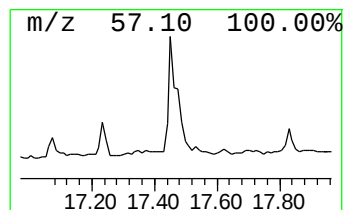
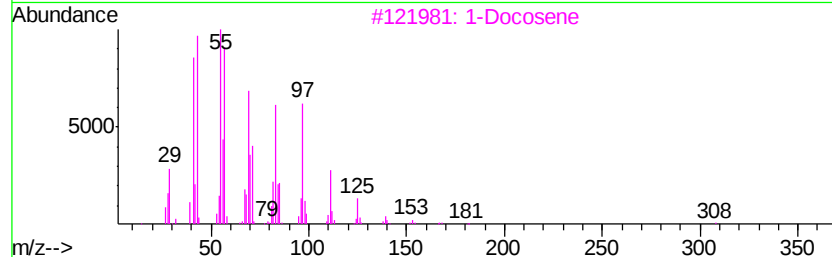
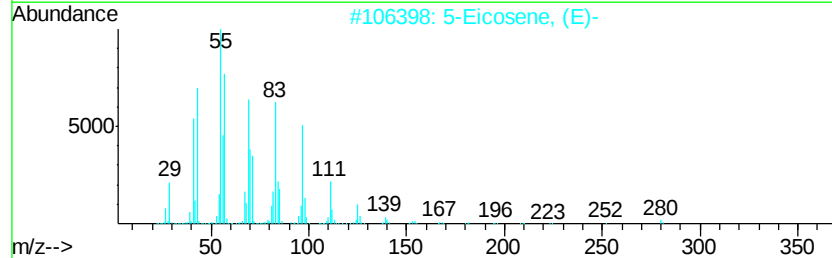
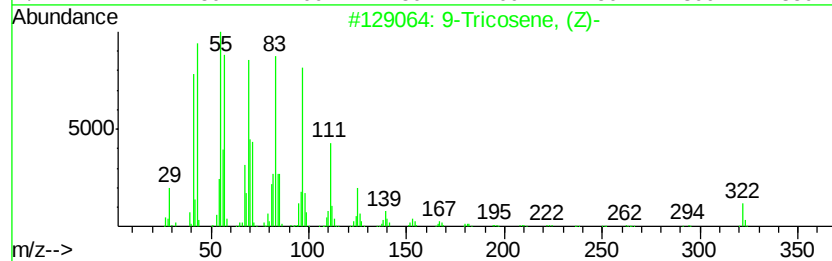
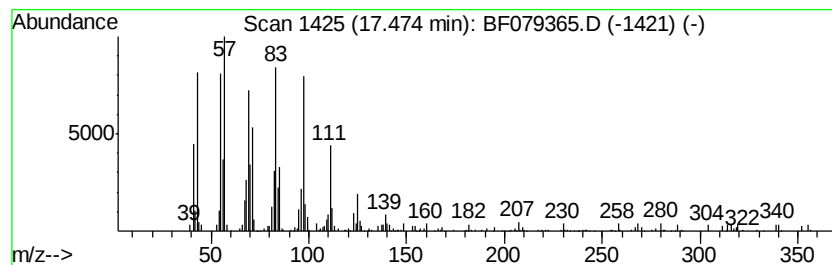
TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 17 9-Tricosene, (Z)- Concentration Rank 9

| R.T.  | EstConc | Area   | Relative to ISTD | R.T.  |
|-------|---------|--------|------------------|-------|
| 17.47 | 8.04 ng | 321008 | Perylene-d12     | 17.70 |

| Hit# | of | Tentative ID                        | MW  | MolForm     | CAS#        | Qual |
|------|----|-------------------------------------|-----|-------------|-------------|------|
| 1    | 5  | 9-Tricosene, (Z)-                   | 322 | C23H46      | 027519-02-4 | 93   |
| 2    |    | 5-Eicosene, (E)-                    | 280 | C20H40      | 074685-30-6 | 93   |
| 3    |    | 1-Docosene                          | 308 | C22H44      | 001599-67-3 | 91   |
| 4    |    | Trichloroacetic acid, hexadecyl ... | 386 | C18H33Cl3O2 | 074339-54-1 | 87   |
| 5    |    | 3-Eicosene, (E)-                    | 280 | C20H40      | 074685-33-9 | 87   |



Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF051915\  
Data File : BF079365.D  
Acq On : 20 May 2015 4:29  
Operator : TP/IZ  
Sample : G2281-04  
Misc :  
ALS Vial : 24 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampled :  
SB-04

Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF043015.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

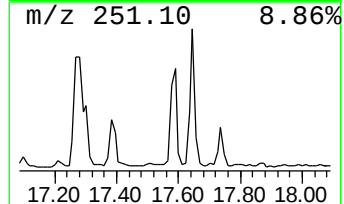
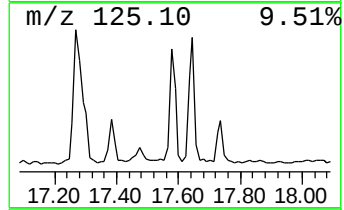
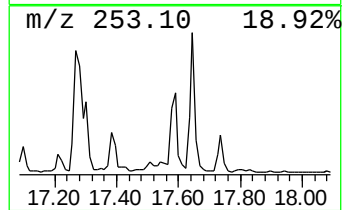
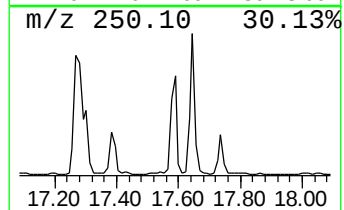
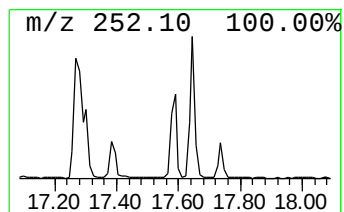
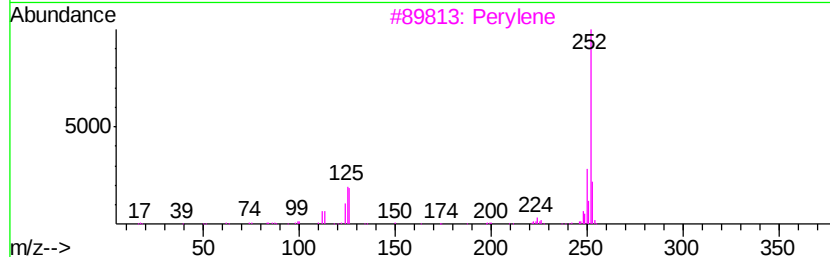
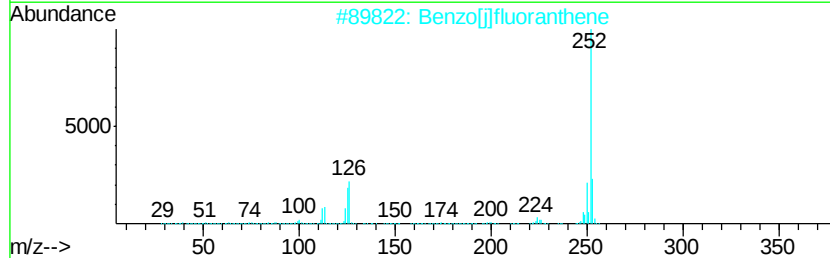
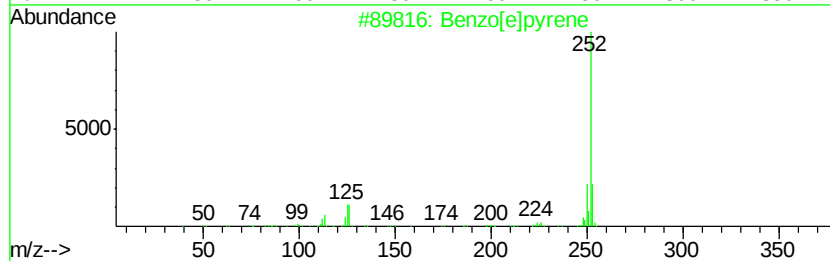
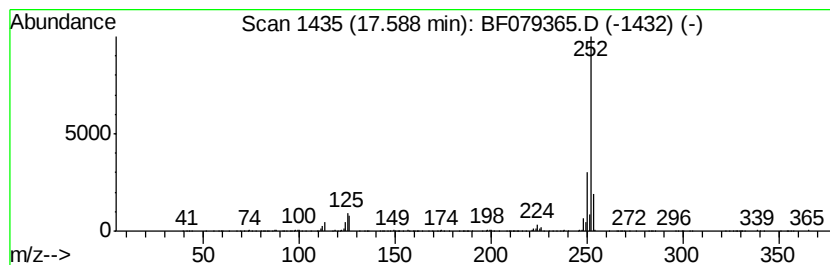
TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 18 Benzo[e]pyrene Concentration Rank 8

| R.T.  | EstConc | Area   | Relative to ISTD | R.T.  |
|-------|---------|--------|------------------|-------|
| 17.59 | 9.91 ng | 395526 | Perylene-d12     | 17.70 |

| Hit# | of | 5 | Tentative ID              | MW  | MolForm | CAS#        | Qual |
|------|----|---|---------------------------|-----|---------|-------------|------|
| 1    |    |   | Benzo[e]pyrene            | 252 | C20H12  | 000192-97-2 | 91   |
| 2    |    |   | Benzo[il]fluoranthene     | 252 | C20H12  | 000205-82-3 | 90   |
| 3    |    |   | Perylene                  | 252 | C20H12  | 000198-55-0 | 90   |
| 4    |    |   | Benzo[e]acephenanthrylene | 252 | C20H12  | 000205-99-2 | 90   |
| 5    |    |   | Benzo[a]pyrene            | 252 | C20H12  | 000050-32-8 | 90   |



Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF051915\  
Data File : BF079365.D  
Acq On : 20 May 2015 4:29  
Operator : TP/IZ  
Sample : G2281-04  
Misc :  
ALS Vial : 24 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
SB-04

Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF043015.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

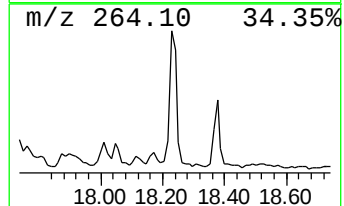
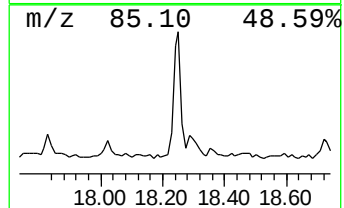
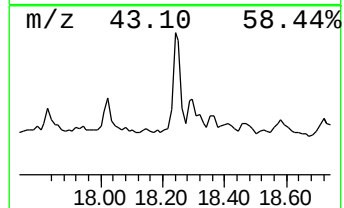
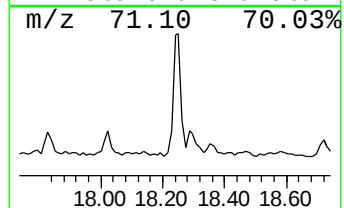
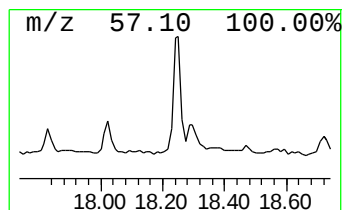
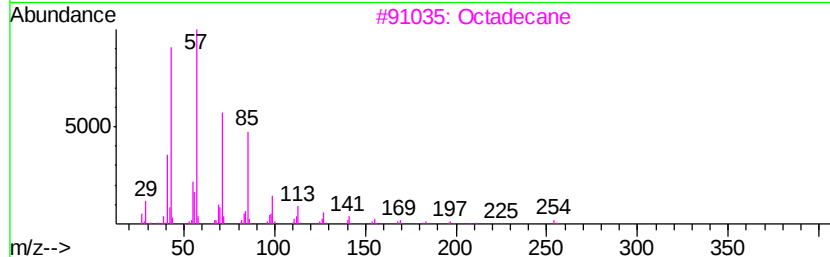
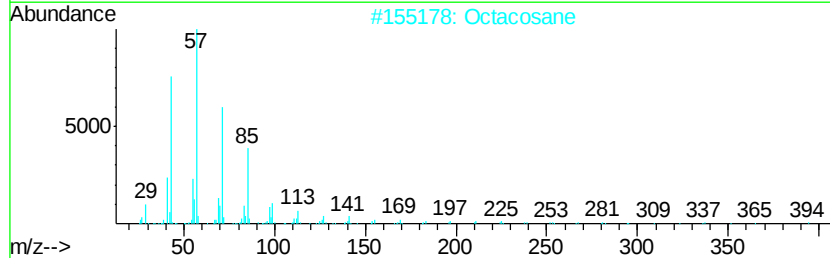
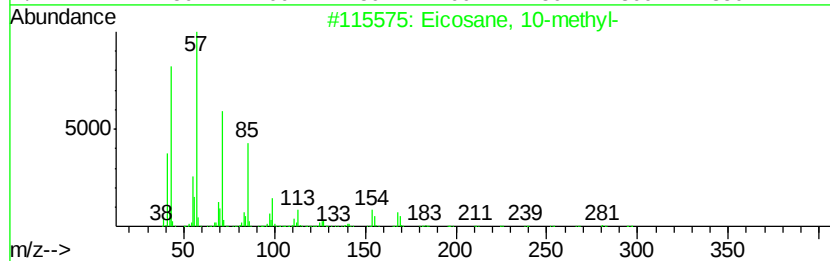
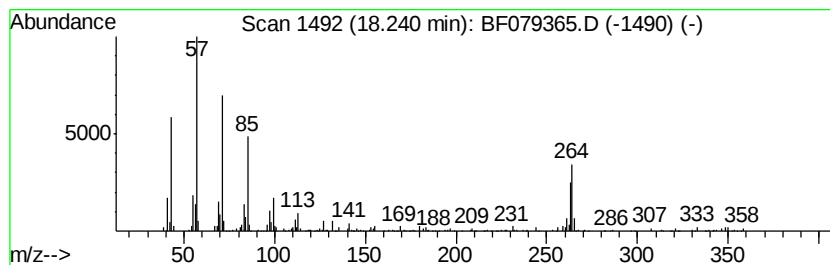
TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 19 Eicosane, 10-methyl- Concentration Rank 16

| R.T.  | EstConc | Area   | Relative to ISTD | R.T.  |
|-------|---------|--------|------------------|-------|
| 18.24 | 4.37 ng | 174439 | Perylene-d12     | 17.70 |

| Hit# | of | Tentative ID                       | MW  | MolForm | CAS#        | Qual |
|------|----|------------------------------------|-----|---------|-------------|------|
| 1    | 5  | Eicosane, 10-methyl-               | 296 | C21H44  | 054833-23-7 | 83   |
| 2    |    | Octacosane                         | 394 | C28H58  | 000630-02-4 | 64   |
| 3    |    | Octadecane                         | 254 | C18H38  | 000593-45-3 | 53   |
| 4    |    | Hexadecane, 2,6,10,14-tetramethyl- | 282 | C20H42  | 000638-36-8 | 53   |
| 5    |    | Tetracosane                        | 338 | C24H50  | 000646-31-1 | 52   |



Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF051915\  
Data File : BF079365.D  
Acq On : 20 May 2015 4:29  
Operator : TP/IZ  
Sample : G2281-04  
Misc :  
ALS Vial : 24 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
SB-04

Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF043015.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

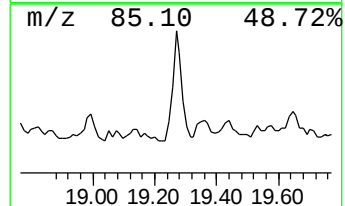
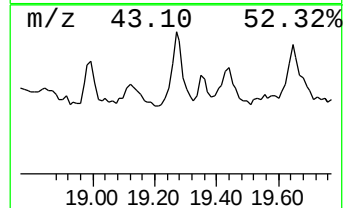
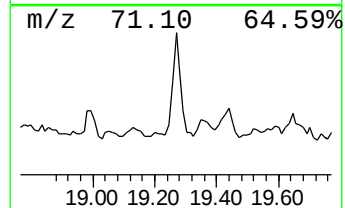
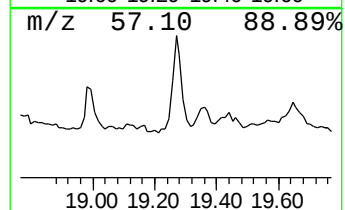
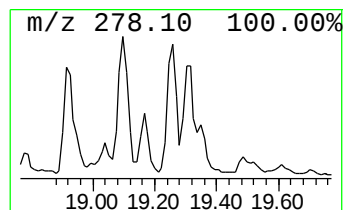
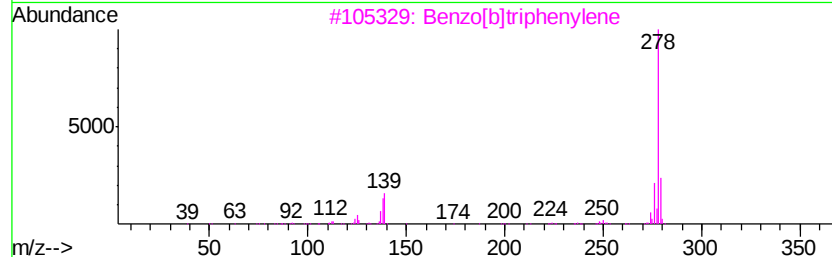
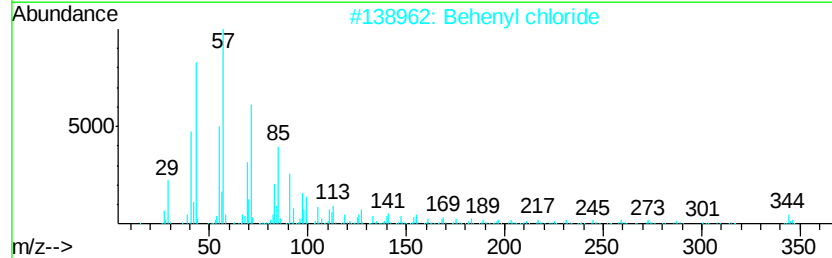
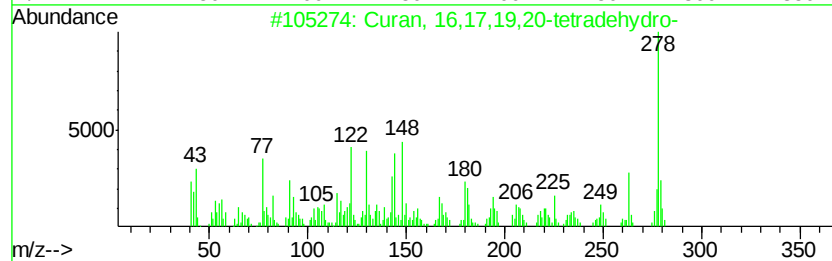
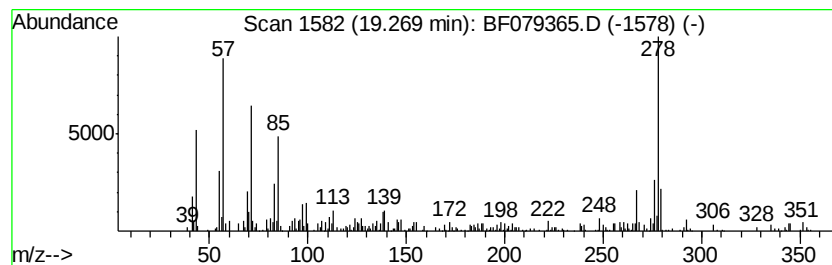
TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 20 Curan, 16,17,19,20-tetradeh... Concentration Rank 12

| R.T.  | EstConc | Area   | Relative to ISTD | R.T.  |
|-------|---------|--------|------------------|-------|
| 19.27 | 5.70 ng | 227593 | Perylene-d12     | 17.70 |

| Hit# | of                               | 5   | Tentative ID | MW          | MolForm | CAS# | Qual |
|------|----------------------------------|-----|--------------|-------------|---------|------|------|
| 1    | Curan, 16,17,19,20-tetradehydro- | 278 | C19H22N2     | 056053-17-9 | 83      |      |      |
| 2    | Behenyl chloride                 | 344 | C22H45Cl     | 042217-03-8 | 55      |      |      |
| 3    | Benzo[b]triphenylene             | 278 | C22H14       | 000215-58-7 | 53      |      |      |
| 4    | 1,2:7,8-Dibenzophenanthrene      | 278 | C22H14       | 000213-46-7 | 53      |      |      |
| 5    | Dibenz[a,h]anthracene            | 278 | C22H14       | 000053-70-3 | 50      |      |      |



Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF051915\  
 Data File : BF079365.D  
 Acq On : 20 May 2015 4:29  
 Operator : TP/IZ  
 Sample : G2281-04  
 Misc :  
 ALS Vial : 24 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 SB-04

Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF043015.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\DATABASE\NIST02.L  
 TIC Integration Parameters: LSCINT.P

| TIC Top Hit name     | RT    | EstConc | Units | Response | --Internal Standard-- |       |         |      |
|----------------------|-------|---------|-------|----------|-----------------------|-------|---------|------|
|                      |       |         |       |          | #                     | RT    | Resp    | Conc |
| Propane, 2,2-dime... | 1.27  | 160.9   | ng    | 2335370  | 1                     | 7.13  | 290206  | 20.0 |
| Butane, 2-methoxy... | 1.56  | 10.6    | ng    | 154170   | 1                     | 7.13  | 290206  | 20.0 |
| 2-Pentanone, 4-hy... | 4.88  | 22.6    | ng    | 327762   | 1                     | 7.13  | 290206  | 20.0 |
| unknown6.84          | 6.84  | 75.6    | ng    | 1097290  | 1                     | 7.13  | 290206  | 20.0 |
| Phenanthrene, 1-m... | 13.38 | 4.5     | ng    | 109853   | 4                     | 12.72 | 484743  | 20.0 |
| Benzaldehyde, 3,5... | 13.47 | 7.8     | ng    | 187995   | 4                     | 12.72 | 484743  | 20.0 |
| Naphthalene, 2-ph... | 13.73 | 4.2     | ng    | 102798   | 4                     | 12.72 | 484743  | 20.0 |
| Phenanthrene, 2,5... | 14.03 | 4.4     | ng    | 105981   | 4                     | 12.72 | 484743  | 20.0 |
| Heptafluorobutano... | 15.89 | 4.9     | ng    | 330710   | 5                     | 16.00 | 1345680 | 20.0 |
| 1-Chloroeicosane     | 16.69 | 3.5     | ng    | 236968   | 5                     | 16.00 | 1345680 | 20.0 |
| 9-Tricosene, (Z)-    | 17.47 | 8.0     | ng    | 321008   | 6                     | 17.70 | 798625  | 20.0 |
| Benzo[e]pyrene       | 17.59 | 9.9     | ng    | 395526   | 6                     | 17.70 | 798625  | 20.0 |
| Eicosane, 10-methyl- | 18.24 | 4.4     | ng    | 174439   | 6                     | 17.70 | 798625  | 20.0 |
| Curan, 16,17,19,2... | 19.27 | 5.7     | ng    | 227593   | 6                     | 17.70 | 798625  | 20.0 |