

Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF092217\  
 Data File : BF098710.D  
 Acq On : 22 Sep 2017 21:45  
 Operator : SJ/JU  
 Sample : I5331-07 5X  
 Misc :  
 ALS Vial : 9 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 HR-05-092017-C

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-BF092117.M  
 Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

Signal : TIC

| peak<br># | R.T.<br>min | first<br>scan | max<br>scan | last<br>scan | PK<br>TY | peak<br>height | corr.<br>area | corr.<br>% max. | % of<br>total |
|-----------|-------------|---------------|-------------|--------------|----------|----------------|---------------|-----------------|---------------|
| 1         | 5.534       | 582           | 586         | 589          | rBV      | 796156         | 687397        | 29.98%          | 1.279%        |
| 2         | 6.175       | 690           | 695         | 702          | rBV3     | 106125         | 197001        | 8.59%           | 0.367%        |
| 3         | 6.457       | 740           | 743         | 746          | rBV2     | 340622         | 338971        | 14.78%          | 0.631%        |
| 4         | 6.516       | 750           | 753         | 754          | rBV      | 185295         | 178689        | 7.79%           | 0.333%        |
| 5         | 6.534       | 754           | 756         | 761          | rVB2     | 917363         | 733976        | 32.01%          | 1.366%        |
| 6         | 6.610       | 766           | 769         | 775          | rVB      | 137857         | 153366        | 6.69%           | 0.285%        |
| 7         | 6.692       | 775           | 783         | 787          | rBV      | 830970         | 963710        | 42.03%          | 1.794%        |
| 8         | 6.757       | 790           | 794         | 798          | rBV2     | 1161921        | 1206281       | 52.61%          | 2.245%        |
| 9         | 6.928       | 818           | 823         | 826          | rVB2     | 1284205        | 1189851       | 51.89%          | 2.215%        |
| 10        | 6.987       | 829           | 833         | 837          | rVB3     | 260887         | 251526        | 10.97%          | 0.468%        |
| 11        | 7.081       | 845           | 849         | 852          | rBV2     | 785179         | 840580        | 36.66%          | 1.565%        |
| 12        | 7.198       | 866           | 869         | 872          | rVB      | 633090         | 521319        | 22.74%          | 0.970%        |
| 13        | 7.228       | 872           | 874         | 875          | rBV      | 327506         | 235274        | 10.26%          | 0.438%        |
| 14        | 7.245       | 875           | 877         | 878          | rVV      | 327351         | 242652        | 10.58%          | 0.452%        |
| 15        | 7.263       | 878           | 880         | 884          | rVB      | 428930         | 389881        | 17.00%          | 0.726%        |
| 16        | 7.310       | 884           | 888         | 893          | rBV3     | 507037         | 739827        | 32.27%          | 1.377%        |
| 17        | 7.392       | 899           | 902         | 903          | rBV      | 178853         | 157869        | 6.89%           | 0.294%        |
| 18        | 7.410       | 903           | 905         | 909          | rVB      | 224928         | 213147        | 9.30%           | 0.397%        |
| 19        | 7.457       | 909           | 913         | 915          | rBV2     | 468506         | 543922        | 23.72%          | 1.012%        |
| 20        | 7.481       | 915           | 917         | 919          | rVV      | 460689         | 384027        | 16.75%          | 0.715%        |
| 21        | 7.522       | 919           | 924         | 928          | rVB      | 2134739        | 2092626       | 91.26%          | 3.895%        |
| 22        | 7.575       | 928           | 933         | 935          | rBV4     | 407388         | 531520        | 23.18%          | 0.989%        |
| 23        | 7.610       | 935           | 939         | 940          | rBV2     | 252655         | 278858        | 12.16%          | 0.519%        |
| 24        | 7.628       | 940           | 942         | 946          | rVB4     | 207837         | 250385        | 10.92%          | 0.466%        |
| 25        | 7.675       | 946           | 950         | 952          | rBV3     | 124434         | 160109        | 6.98%           | 0.298%        |
| 26        | 7.698       | 952           | 954         | 956          | rBV2     | 263831         | 246936        | 10.77%          | 0.460%        |
| 27        | 7.722       | 956           | 958         | 959          | rVV      | 256971         | 200618        | 8.75%           | 0.373%        |
| 28        | 7.810       | 968           | 973         | 974          | rBV4     | 218539         | 269401        | 11.75%          | 0.501%        |
| 29        | 7.828       | 974           | 976         | 978          | rVB      | 380930         | 255259        | 11.13%          | 0.475%        |
| 30        | 7.851       | 978           | 980         | 983          | rBV3     | 280139         | 316925        | 13.82%          | 0.590%        |
| 31        | 7.887       | 983           | 986         | 989          | rVB2     | 454077         | 604323        | 26.36%          | 1.125%        |
| 32        | 7.922       | 989           | 992         | 994          | rBV2     | 592335         | 513673        | 22.40%          | 0.956%        |
| 33        | 7.951       | 994           | 997         | 1000         | rVV3     | 871035         | 946606        | 41.28%          | 1.762%        |
| 34        | 7.998       | 1003          | 1005        | 1007         | rBV      | 551216         | 404848        | 17.66%          | 0.754%        |

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 BNA\_F  
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 HR-05-092017-C

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-BF092117.M  
 Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

|    |       |      |      |      |      |         |         |         |        |
|----|-------|------|------|------|------|---------|---------|---------|--------|
| 35 | 8.022 | 1007 | 1009 | 1012 | rVB4 | 244751  | 243145  | 10.60%  | 0.453% |
| 36 | 8.051 | 1012 | 1014 | 1016 | rVB  | 415757  | 297891  | 12.99%  | 0.554% |
| 37 | 8.081 | 1016 | 1019 | 1022 | rVB2 | 280243  | 305628  | 13.33%  | 0.569% |
| 38 | 8.110 | 1022 | 1024 | 1026 | rBV  | 183224  | 163113  | 7.11%   | 0.304% |
| 39 | 8.157 | 1027 | 1032 | 1033 | rBV3 | 225142  | 290596  | 12.67%  | 0.541% |
| 40 | 8.187 | 1034 | 1037 | 1039 | rVV  | 2453790 | 2163279 | 94.35%  | 4.026% |
| 41 | 8.210 | 1039 | 1041 | 1044 | rVV  | 1648592 | 1375473 | 59.99%  | 2.560% |
| 42 | 8.263 | 1046 | 1050 | 1053 | rVB2 | 1124226 | 1161498 | 50.66%  | 2.162% |
| 43 | 8.298 | 1053 | 1056 | 1058 | rBV3 | 369294  | 421577  | 18.39%  | 0.785% |
| 44 | 8.363 | 1063 | 1067 | 1069 | rBV4 | 251429  | 291736  | 12.72%  | 0.543% |
| 45 | 8.410 | 1072 | 1075 | 1078 | rVV2 | 439870  | 490008  | 21.37%  | 0.912% |
| 46 | 8.457 | 1080 | 1083 | 1085 | rVV2 | 195109  | 217532  | 9.49%   | 0.405% |
| 47 | 8.498 | 1086 | 1090 | 1096 | rVV4 | 939924  | 1228745 | 53.59%  | 2.287% |
| 48 | 8.551 | 1096 | 1099 | 1102 | rVV2 | 464316  | 559466  | 24.40%  | 1.041% |
| 49 | 8.581 | 1102 | 1104 | 1108 | rVV3 | 726793  | 752376  | 32.81%  | 1.400% |
| 50 | 8.628 | 1108 | 1112 | 1114 | rVV  | 1178376 | 1151015 | 50.20%  | 2.142% |
| 51 | 8.651 | 1114 | 1116 | 1118 | rVV2 | 328602  | 296207  | 12.92%  | 0.551% |
| 52 | 8.675 | 1118 | 1120 | 1124 | rVB3 | 241525  | 191628  | 8.36%   | 0.357% |
| 53 | 8.716 | 1124 | 1127 | 1129 | rBV  | 766310  | 645427  | 28.15%  | 1.201% |
| 54 | 8.751 | 1129 | 1133 | 1135 | rBV4 | 211274  | 234632  | 10.23%  | 0.437% |
| 55 | 8.798 | 1137 | 1141 | 1145 | rVV  | 2465955 | 2292940 | 100.00% | 4.268% |
| 56 | 8.839 | 1145 | 1148 | 1149 | rVV3 | 254912  | 331081  | 14.44%  | 0.616% |
| 57 | 8.869 | 1151 | 1153 | 1155 | rVV2 | 582472  | 563806  | 24.59%  | 1.049% |
| 58 | 8.892 | 1155 | 1157 | 1160 | rVB2 | 464328  | 446626  | 19.48%  | 0.831% |
| 59 | 8.922 | 1160 | 1162 | 1165 | rVB2 | 226290  | 154188  | 6.72%   | 0.287% |
| 60 | 8.957 | 1165 | 1168 | 1170 | rBV3 | 220122  | 163847  | 7.15%   | 0.305% |
| 61 | 8.992 | 1170 | 1174 | 1175 | rBV3 | 206964  | 256805  | 11.20%  | 0.478% |
| 62 | 9.034 | 1178 | 1181 | 1183 | rVV2 | 539424  | 510714  | 22.27%  | 0.951% |
| 63 | 9.075 | 1186 | 1188 | 1190 | rVV3 | 472179  | 489538  | 21.35%  | 0.911% |
| 64 | 9.122 | 1193 | 1196 | 1199 | rVV4 | 403398  | 546115  | 23.82%  | 1.016% |
| 65 | 9.157 | 1199 | 1202 | 1206 | rVV3 | 656962  | 753003  | 32.84%  | 1.402% |
| 66 | 9.198 | 1206 | 1209 | 1211 | rVV  | 540703  | 407872  | 17.79%  | 0.759% |
| 67 | 9.228 | 1211 | 1214 | 1216 | rVV  | 904288  | 827540  | 36.09%  | 1.540% |
| 68 | 9.281 | 1220 | 1223 | 1225 | rBV  | 1011019 | 758003  | 33.06%  | 1.411% |
| 69 | 9.363 | 1233 | 1237 | 1240 | rBV  | 2006248 | 1839363 | 80.22%  | 3.423% |
| 70 | 9.404 | 1242 | 1244 | 1246 | rVV2 | 230772  | 250830  | 10.94%  | 0.467% |
| 71 | 9.433 | 1247 | 1249 | 1252 | rVB  | 439398  | 384716  | 16.78%  | 0.716% |

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 HR-05-092017-C

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-BF092117.M  
 Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

|     |        |      |      |      |      |         |         |        |        |
|-----|--------|------|------|------|------|---------|---------|--------|--------|
| 72  | 9.545  | 1265 | 1268 | 1271 | rVB2 | 136762  | 157424  | 6.87%  | 0.293% |
| 73  | 9.616  | 1274 | 1280 | 1282 | rBV4 | 397245  | 609045  | 26.56% | 1.134% |
| 74  | 9.639  | 1282 | 1284 | 1287 | rVV3 | 308672  | 285348  | 12.44% | 0.531% |
| 75  | 9.681  | 1287 | 1291 | 1293 | rVV3 | 832617  | 1054435 | 45.99% | 1.963% |
| 76  | 9.698  | 1293 | 1294 | 1298 | rVB2 | 403379  | 421727  | 18.39% | 0.785% |
| 77  | 9.739  | 1298 | 1301 | 1303 | rBV2 | 448536  | 351449  | 15.33% | 0.654% |
| 78  | 9.886  | 1323 | 1326 | 1331 | rVV  | 1105865 | 1066492 | 46.51% | 1.985% |
| 79  | 9.928  | 1331 | 1333 | 1335 | rVV3 | 160576  | 176186  | 7.68%  | 0.328% |
| 80  | 9.969  | 1336 | 1340 | 1343 | rVB  | 1374645 | 1407640 | 61.39% | 2.620% |
| 81  | 10.122 | 1362 | 1366 | 1368 | rVV2 | 151937  | 217433  | 9.48%  | 0.405% |
| 82  | 10.145 | 1368 | 1370 | 1373 | rVV  | 172075  | 179160  | 7.81%  | 0.333% |
| 83  | 10.210 | 1378 | 1381 | 1385 | rVV3 | 202698  | 257935  | 11.25% | 0.480% |
| 84  | 10.386 | 1408 | 1411 | 1414 | rVB  | 600819  | 461550  | 20.13% | 0.859% |
| 85  | 10.610 | 1444 | 1449 | 1454 | rVB  | 161403  | 251748  | 10.98% | 0.469% |
| 86  | 10.745 | 1470 | 1472 | 1476 | rVB  | 405134  | 322509  | 14.07% | 0.600% |
| 87  | 10.857 | 1489 | 1491 | 1497 | rBV  | 330794  | 391797  | 17.09% | 0.729% |
| 88  | 11.310 | 1565 | 1568 | 1570 | rBV  | 216997  | 172316  | 7.52%  | 0.321% |
| 89  | 11.339 | 1570 | 1573 | 1579 | rVB2 | 118208  | 143578  | 6.26%  | 0.267% |
| 90  | 11.451 | 1588 | 1592 | 1595 | rBV  | 1354117 | 1106302 | 48.25% | 2.059% |
| 91  | 11.733 | 1637 | 1640 | 1643 | rVV  | 184860  | 143888  | 6.28%  | 0.268% |
| 92  | 11.833 | 1654 | 1657 | 1660 | rVB  | 196490  | 145480  | 6.34%  | 0.271% |
| 93  | 12.522 | 1771 | 1774 | 1776 | rBV2 | 434214  | 422763  | 18.44% | 0.787% |
| 94  | 12.539 | 1776 | 1777 | 1783 | rVB  | 378832  | 285377  | 12.45% | 0.531% |
| 95  | 12.663 | 1794 | 1798 | 1803 | rBV  | 133599  | 184500  | 8.05%  | 0.343% |
| 96  | 12.898 | 1834 | 1838 | 1841 | rVB2 | 146830  | 178159  | 7.77%  | 0.332% |
| 97  | 13.027 | 1857 | 1860 | 1864 | rVB  | 619504  | 567707  | 24.76% | 1.057% |
| 98  | 14.086 | 2037 | 2040 | 2043 | rBV  | 996997  | 927983  | 40.47% | 1.727% |
| 99  | 14.863 | 2169 | 2172 | 2177 | rBV  | 134835  | 144569  | 6.30%  | 0.269% |
| 100 | 15.586 | 2290 | 2295 | 2303 | rVB  | 659010  | 993759  | 43.34% | 1.850% |

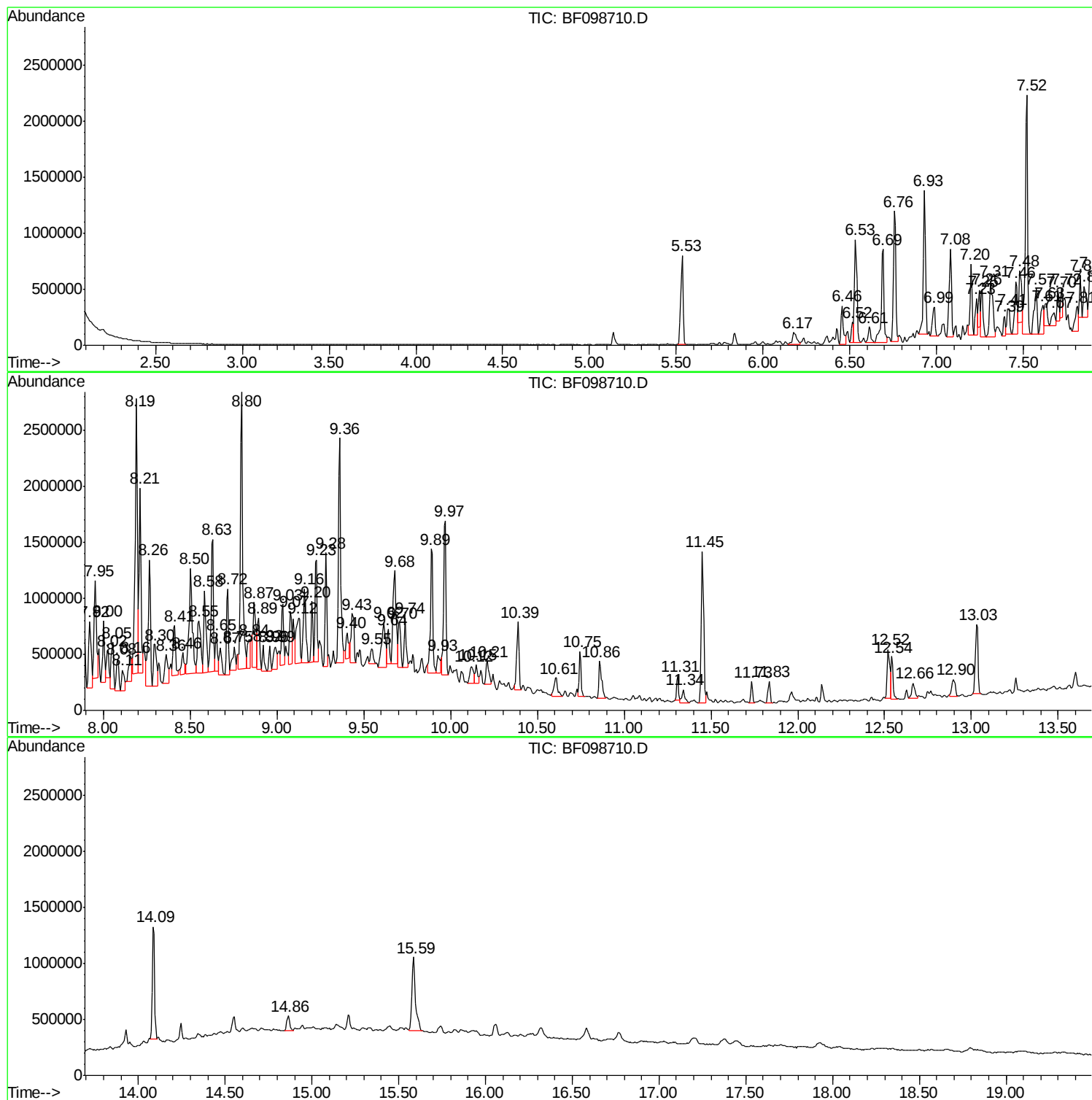
Sum of corrected areas: 53727571

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ALS Vial : 9 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
HR-05-092017-C

Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF092117.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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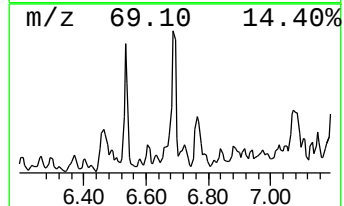
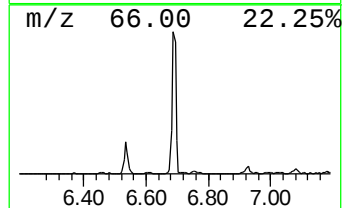
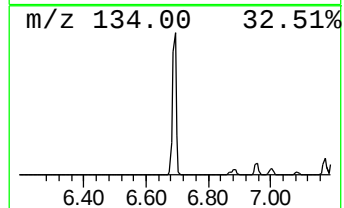
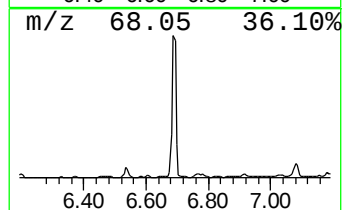
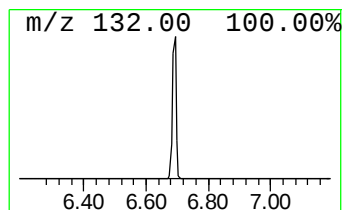
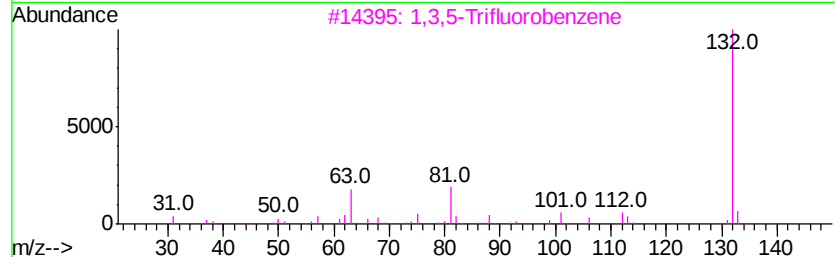
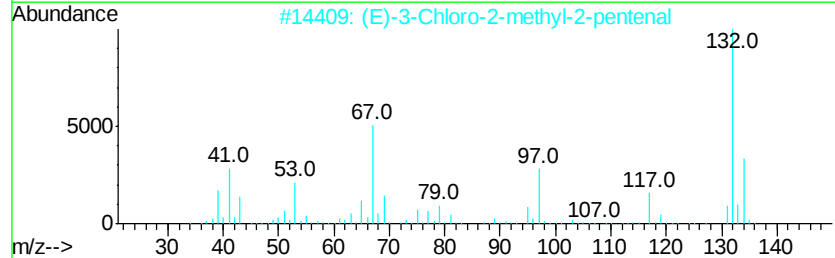
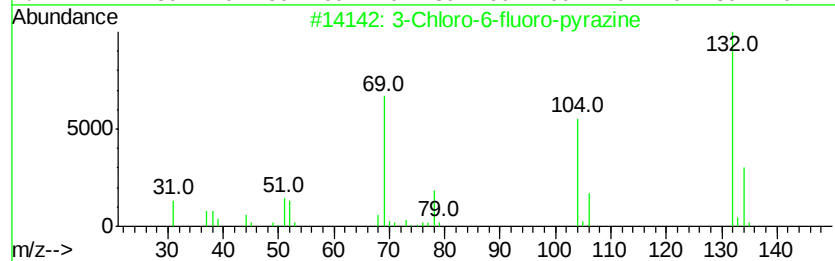
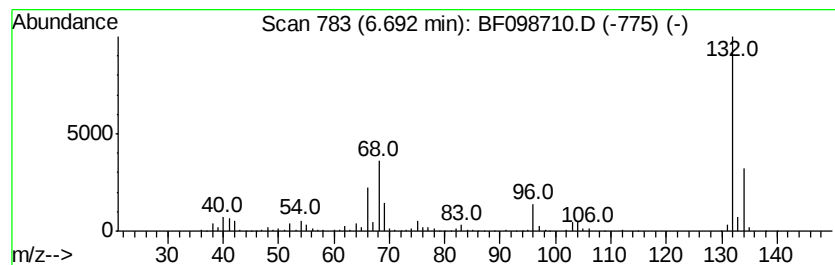
Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF092117.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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Peak Number 1 unknown6.69 Concentration Rank 7

| R.T. | EstConc  | Area   | Relative to ISTD       | R.T. |
|------|----------|--------|------------------------|------|
| 6.69 | 16.20 ng | 963710 | 1,4-Dichlorobenzene-d4 | 6.93 |

| Hit# | of | Tentative ID                     | MW  | MolForm   | CAS#         | Qual |
|------|----|----------------------------------|-----|-----------|--------------|------|
| 1    | 5  | 3-Chloro-6-fluoro-pyrazine       | 132 | C4H2ClFN2 | 1000146-10-7 | 25   |
| 2    |    | (E)-3-Chloro-2-methyl-2-pentenal | 132 | C6H9ClO   | 031357-76-3  | 17   |
| 3    |    | 1,3,5-Trifluorobenzene           | 132 | C6H3F3    | 000372-38-3  | 9    |
| 4    |    | Xenon                            | 132 | Xe        | 007440-63-3  | 9    |
| 5    |    | 4-Methylpyrrolo[1,2-a]pyrazine   | 132 | C8H8N2    | 064608-60-2  | 9    |



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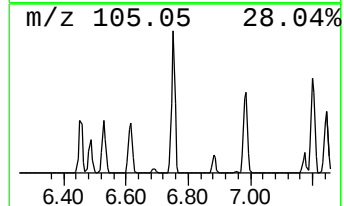
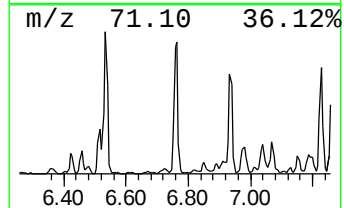
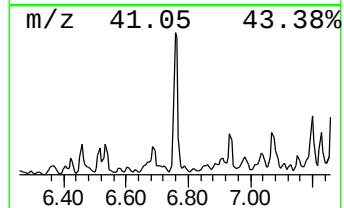
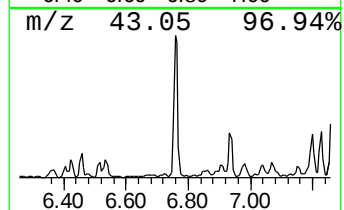
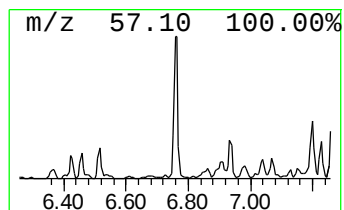
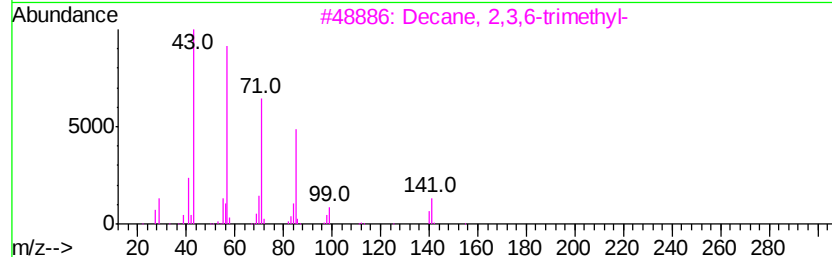
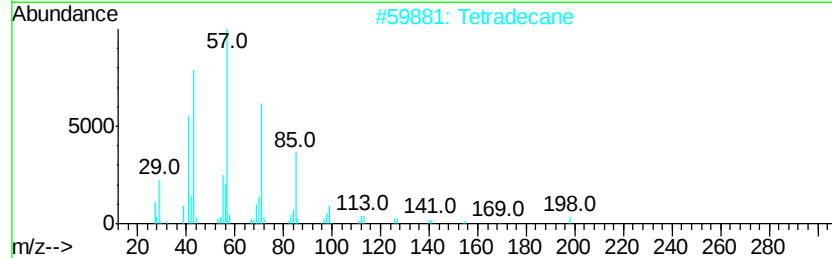
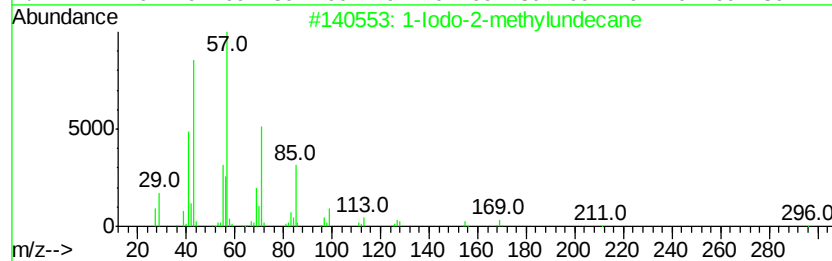
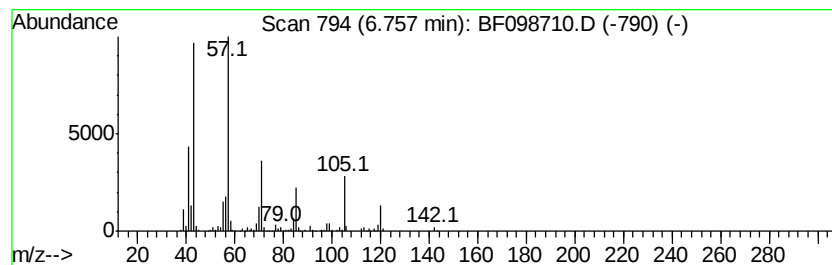
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

\*\*\*\*\*  
Peak Number 2 1-Iodo-2-methylundecane Concentration Rank 3

| R.T. | EstConc  | Area    | Relative to ISTD       | R.T. |
|------|----------|---------|------------------------|------|
| 6.76 | 20.28 ng | 1206280 | 1,4-Dichlorobenzene-d4 | 6.93 |

| Hit# | of | Tentative ID             | MW  | MolForm | CAS#        | Qual |
|------|----|--------------------------|-----|---------|-------------|------|
| 1    | 5  | 1-Iodo-2-methylundecane  | 296 | C12H25I | 073105-67-6 | 50   |
| 2    |    | Tetradecane              | 198 | C14H30  | 000629-59-4 | 50   |
| 3    |    | Decane, 2,3,6-trimethyl- | 184 | C13H28  | 062238-12-4 | 47   |
| 4    |    | Undecane                 | 156 | C11H24  | 001120-21-4 | 47   |
| 5    |    | Decane, 2,3,5-trimethyl- | 184 | C13H28  | 062238-11-3 | 47   |



Data Path : Z:\HPCHEM1\BNA F\DATA\BF092217\  
Data File : BF098710.D  
Acq On : 22 Sep 2017 21:45  
Operator : SJ/JU  
Sample : I5331-07 5X  
Misc :  
ALS Vial : 9 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
HR-05-092017-C

Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF092117.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

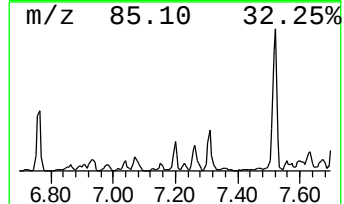
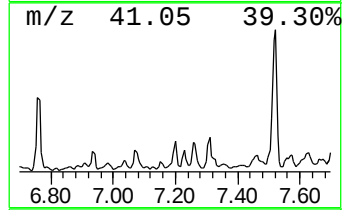
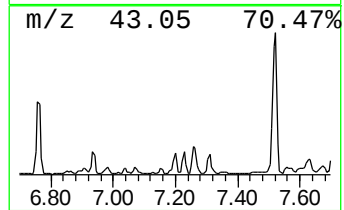
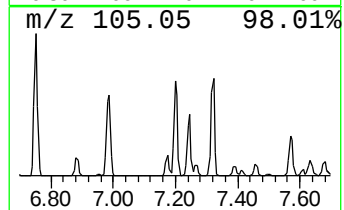
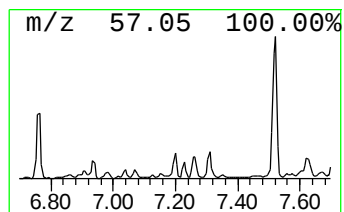
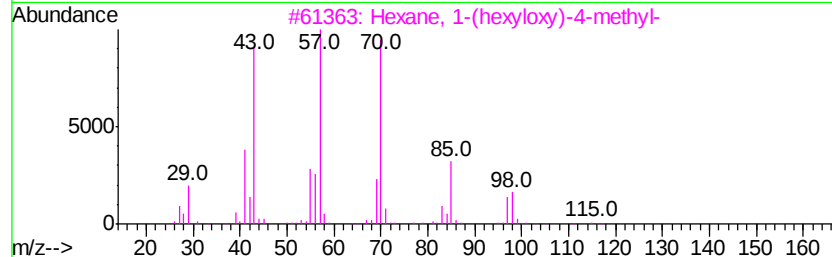
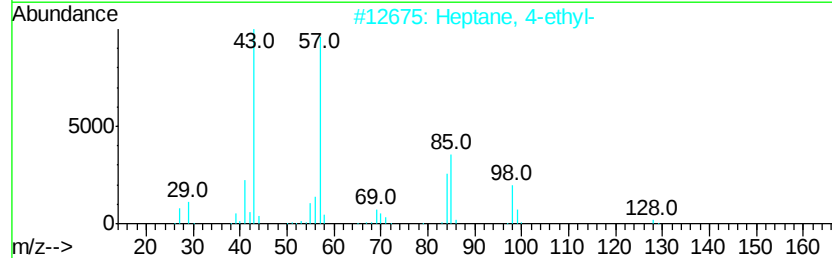
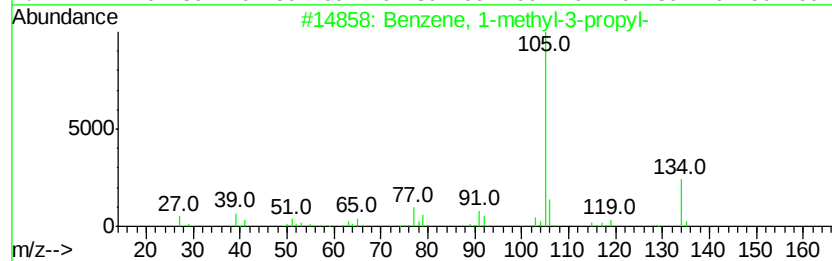
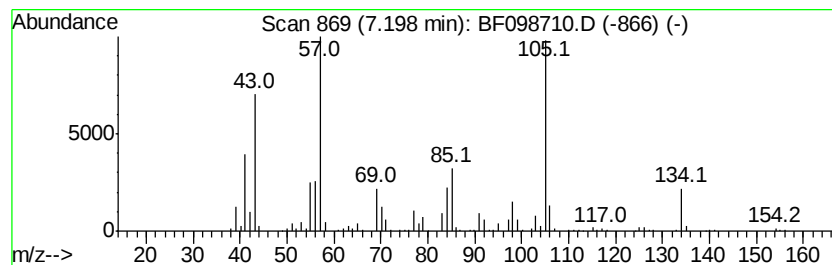
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 4 Benzene, 1-methyl-3-propyl- Concentration Rank 17

| R.T. | EstConc | Area   | Relative to ISTD       | R.T. |
|------|---------|--------|------------------------|------|
| 7.20 | 8.76 ng | 521319 | 1,4-Dichlorobenzene-d4 | 6.93 |

| Hit# | of | Tentative ID                   | MW  | MolForm | CAS#        | Qual |
|------|----|--------------------------------|-----|---------|-------------|------|
| 1    | 5  | Benzene, 1-methyl-3-propyl-    | 134 | C10H14  | 001074-43-7 | 70   |
| 2    |    | Heptane, 4-ethyl-              | 128 | C9H20   | 002216-32-2 | 43   |
| 3    |    | Hexane, 1-(hexyloxy)-4-methyl- | 200 | C13H28O | 074421-20-8 | 38   |
| 4    |    | Benzene, 1-methyl-2-propyl-    | 134 | C10H14  | 001074-17-5 | 38   |
| 5    |    | Benzene, (1-methylpropyl)-     | 134 | C10H14  | 000135-98-8 | 38   |



Data Path : Z:\HPCHEM1\BNA F\DATA\BF092217\  
Data File : BF098710.D  
Acq On : 22 Sep 2017 21:45  
Operator : SJ/JU  
Sample : I5331-07 5X  
Misc :  
ALS Vial : 9 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
HR-05-092017-C

Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF092117.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

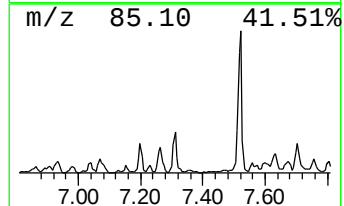
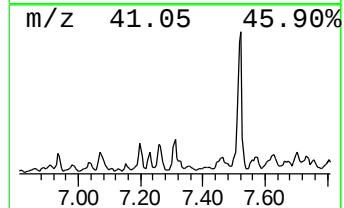
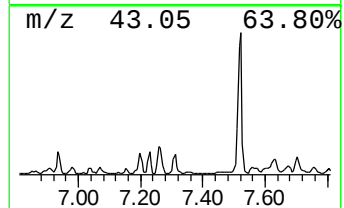
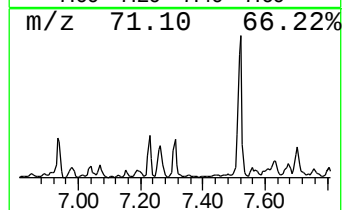
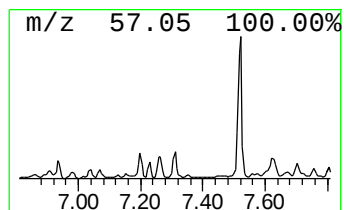
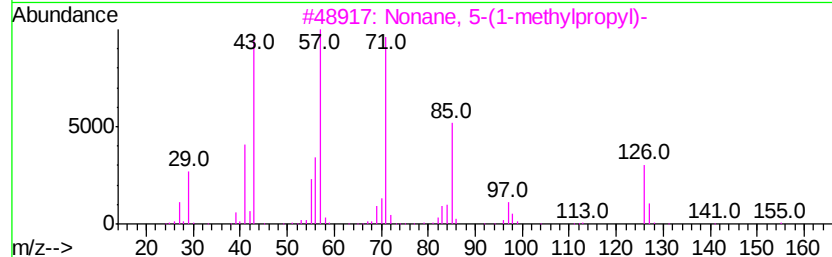
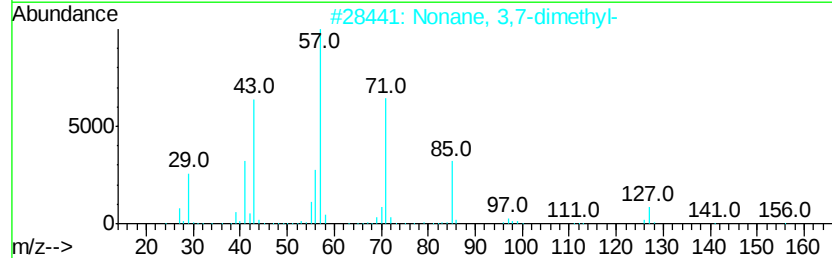
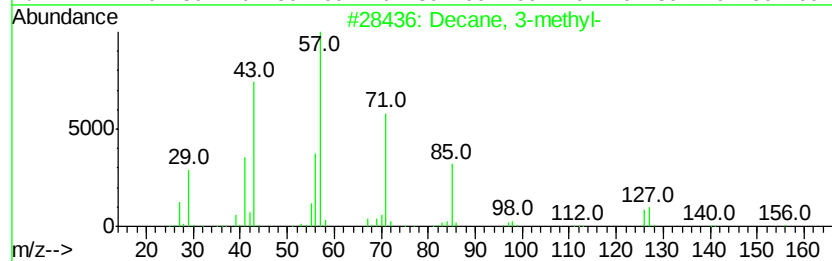
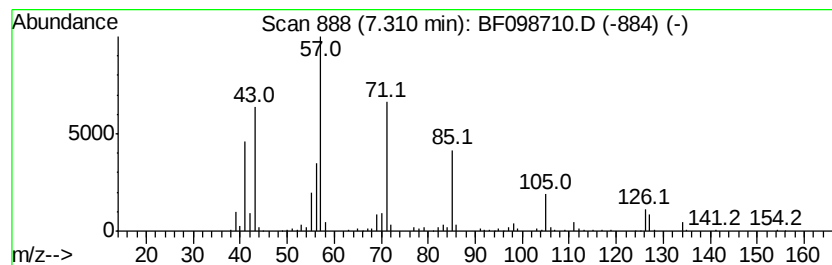
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 5 Decane, 3-methyl- Concentration Rank 11

| R.T. | EstConc  | Area   | Relative to ISTD       | R.T. |
|------|----------|--------|------------------------|------|
| 7.31 | 12.44 ng | 739827 | 1,4-Dichlorobenzene-d4 | 6.93 |

| Hit# | of | Tentative ID                        | MW  | MolForm   | CAS#         | Qual |
|------|----|-------------------------------------|-----|-----------|--------------|------|
| 1    | 5  | Decane, 3-methyl-                   | 156 | C11H24    | 013151-34-3  | 87   |
| 2    |    | Nonane, 3,7-dimethyl-               | 156 | C11H24    | 017302-32-8  | 81   |
| 3    |    | Nonane, 5-(1-methylpropyl)-         | 184 | C13H28    | 062185-54-0  | 64   |
| 4    |    | Sulfurous acid, 2-ethylhexyl hex... | 278 | C14H30O3S | 1000309-20-2 | 50   |
| 5    |    | Undecane, 5-methyl-                 | 170 | C12H26    | 001632-70-8  | 50   |



Data Path : Z:\HPCHEM1\BNA F\DATA\BF092217\  
Data File : BF098710.D  
Acq On : 22 Sep 2017 21:45  
Operator : SJ/JU  
Sample : I5331-07 5X  
Misc :  
ALS Vial : 9 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
HR-05-092017-C

Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF092117.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

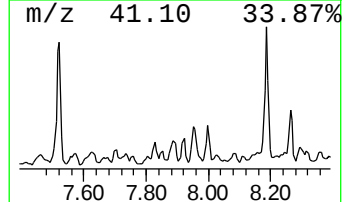
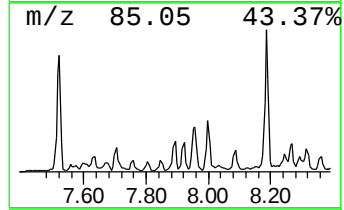
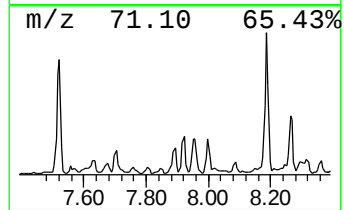
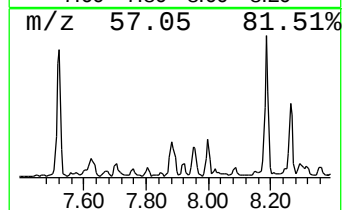
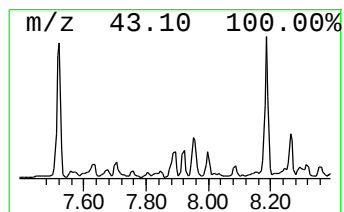
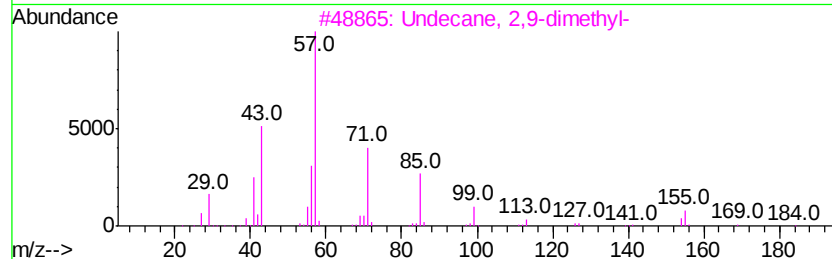
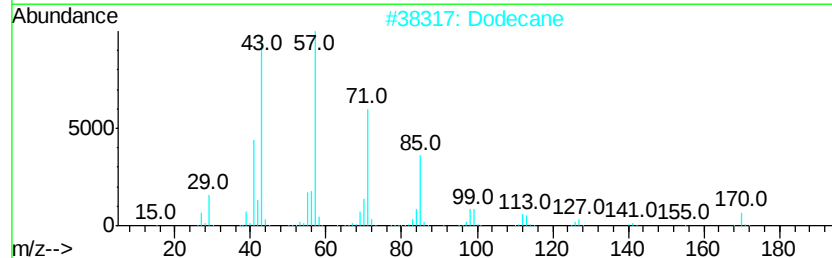
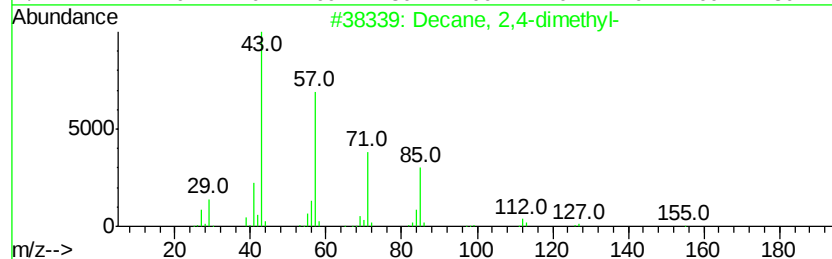
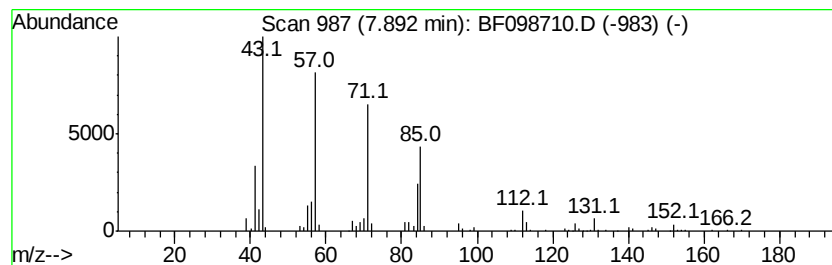
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 6 Decane, 2,4-dimethyl- Concentration Rank 16

| R.T. | EstConc | Area   | Relative to ISTD | R.T. |
|------|---------|--------|------------------|------|
| 7.89 | 8.79 ng | 604323 | Napthalene-d8    | 8.21 |

| Hit# | of | Tentative ID            | MW  | MolForm | CAS#        | Qual |
|------|----|-------------------------|-----|---------|-------------|------|
| 1    | 5  | Decane, 2,4-dimethyl-   | 170 | C12H26  | 002801-84-5 | 50   |
| 2    |    | Dodecane                | 170 | C12H26  | 000112-40-3 | 50   |
| 3    |    | Undecane, 2,9-dimethyl- | 184 | C13H28  | 017301-26-7 | 50   |
| 4    |    | Hexadecane              | 226 | C16H34  | 000544-76-3 | 49   |
| 5    |    | Undecane, 5-methyl-     | 170 | C12H26  | 001632-70-8 | 47   |



Data Path : Z:\HPCHEM1\BNA F\DATA\BF092217\  
Data File : BF098710.D  
Acq On : 22 Sep 2017 21:45  
Operator : SJ/JU  
Sample : I5331-07 5X  
Misc :  
ALS Vial : 9 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
HR-05-092017-C

Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF092117.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

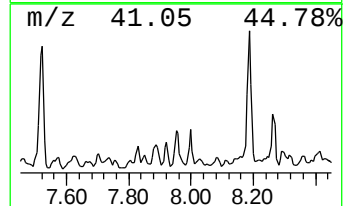
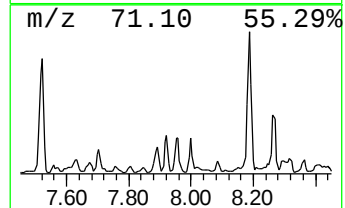
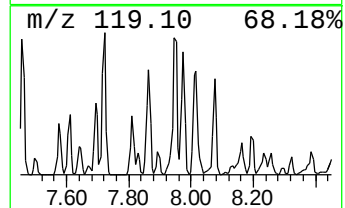
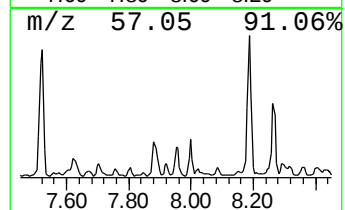
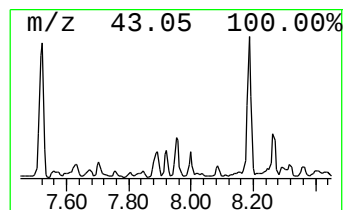
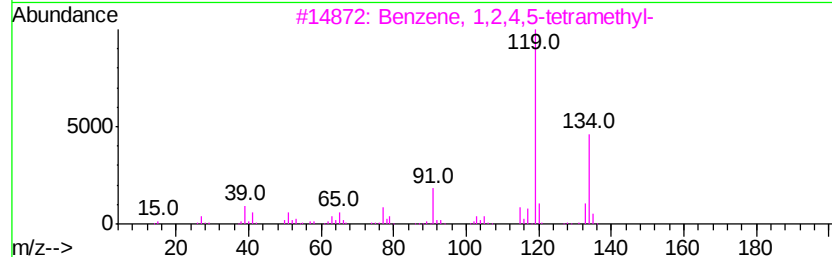
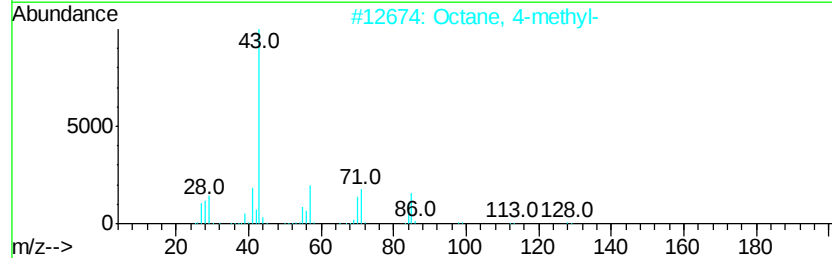
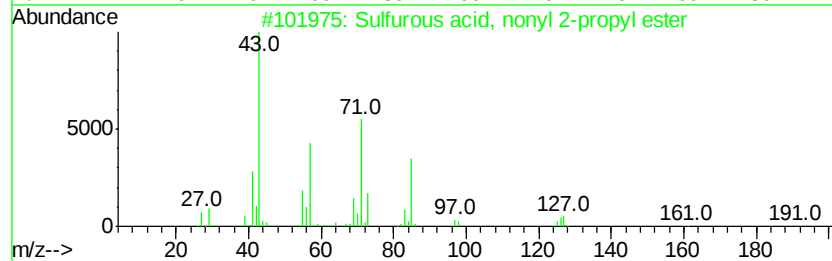
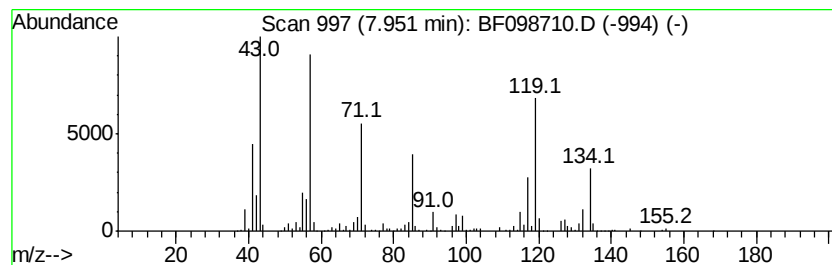
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 7 unknown7.95 Concentration Rank 10

| R.T. | EstConc  | Area   | Relative to ISTD | R.T. |
|------|----------|--------|------------------|------|
| 7.95 | 13.76 ng | 946606 | Naphthalene-d8   | 8.21 |

| Hit# | of | Tentative ID                        | MW  | MolForm   | CAS#         | Qual |
|------|----|-------------------------------------|-----|-----------|--------------|------|
| 1    | 5  | Sulfurous acid, nonyl 2-propyl e... | 250 | C12H26O3S | 1000309-12-0 | 35   |
| 2    |    | Octane, 4-methyl-                   | 128 | C9H20     | 002216-34-4  | 30   |
| 3    |    | Benzene, 1,2,4,5-tetramethyl-       | 134 | C10H14    | 000095-93-2  | 30   |
| 4    |    | Benzene, 1-methyl-3-(1-methyleth... | 134 | C10H14    | 000535-77-3  | 30   |
| 5    |    | Hexadecane                          | 226 | C16H34    | 000544-76-3  | 27   |



Data Path : Z:\HPCHEM1\BNA F\DATA\BF092217\  
Data File : BF098710.D  
Acq On : 22 Sep 2017 21:45  
Operator : SJ/JU  
Sample : I5331-07 5X  
Misc :  
ALS Vial : 9 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
HR-05-092017-C

Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF092117.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

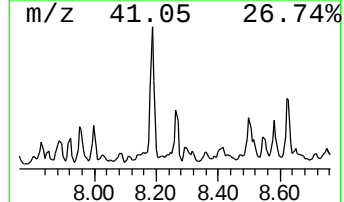
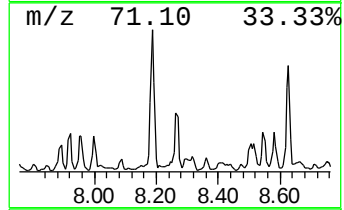
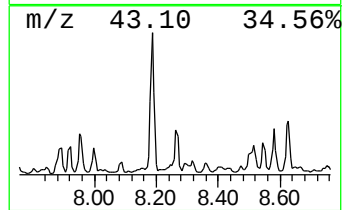
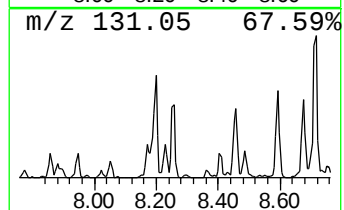
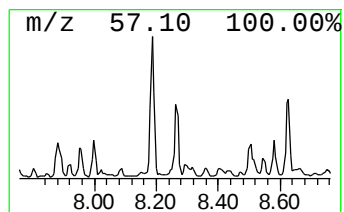
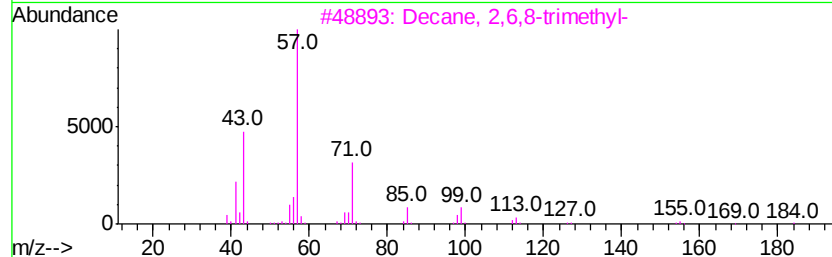
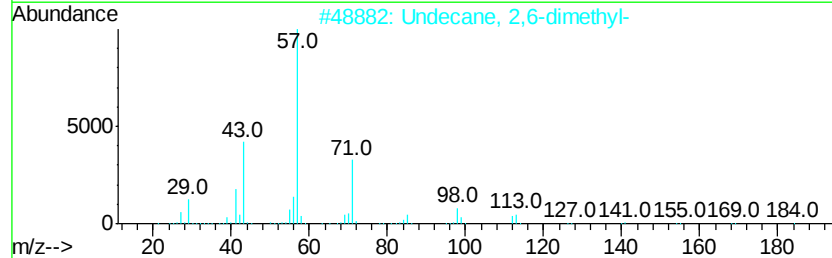
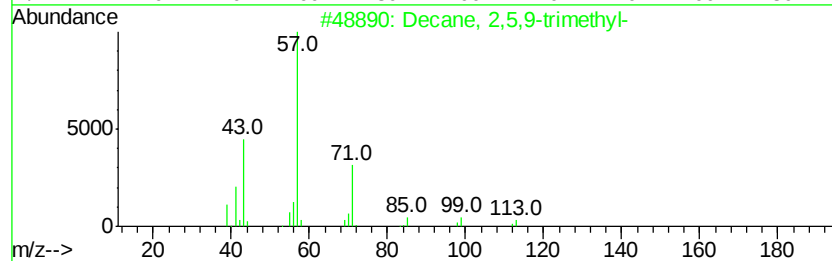
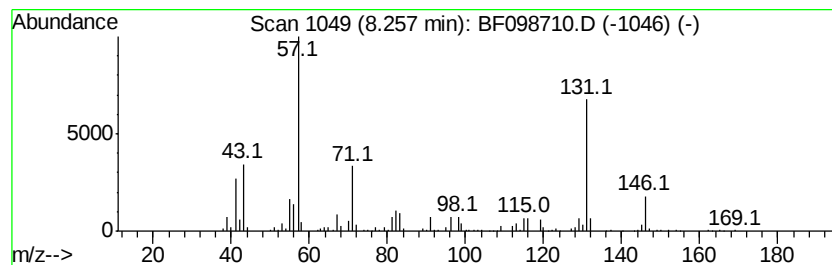
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 8 Decane, 2,5,9-trimethyl- Concentration Rank 5

| R.T. | EstConc  | Area    | Relative to ISTD | R.T. |
|------|----------|---------|------------------|------|
| 8.26 | 16.89 ng | 1161500 | Naphthalene-d8   | 8.21 |

| Hit# | of | Tentative ID                | MW  | MolForm | CAS#        | Qual |
|------|----|-----------------------------|-----|---------|-------------|------|
| 1    | 5  | Decane, 2,5,9-trimethyl-    | 184 | C13H28  | 062108-22-9 | 78   |
| 2    |    | Undecane, 2,6-dimethyl-     | 184 | C13H28  | 017301-23-4 | 76   |
| 3    |    | Decane, 2,6,8-trimethyl-    | 184 | C13H28  | 062108-26-3 | 72   |
| 4    |    | Dodecane, 2,6,10-trimethyl- | 212 | C15H32  | 003891-98-3 | 64   |
| 5    |    | Undecane, 5-ethyl-          | 184 | C13H28  | 017453-94-0 | 64   |



Data Path : Z:\HPCHEM1\BNA F\DATA\BF092217\  
Data File : BF098710.D  
Acq On : 22 Sep 2017 21:45  
Operator : SJ/JU  
Sample : I5331-07 5X  
Misc :  
ALS Vial : 9 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
HR-05-092017-C

Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF092117.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

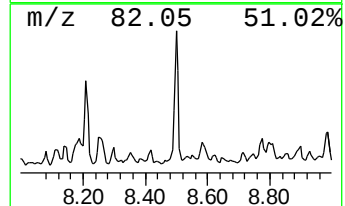
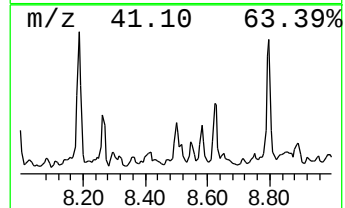
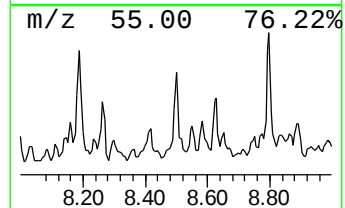
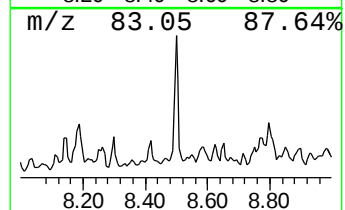
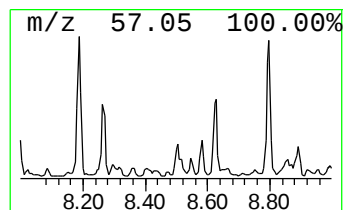
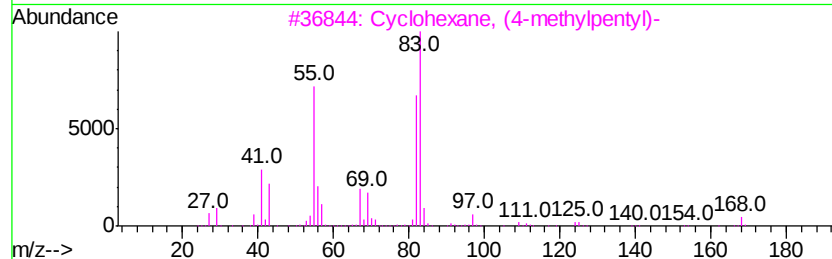
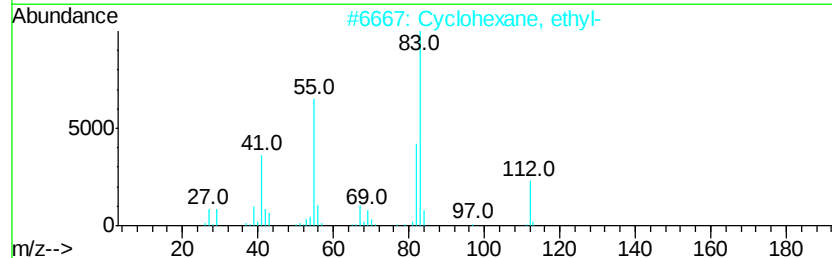
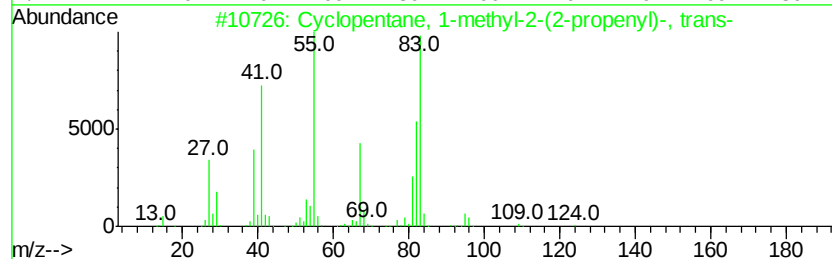
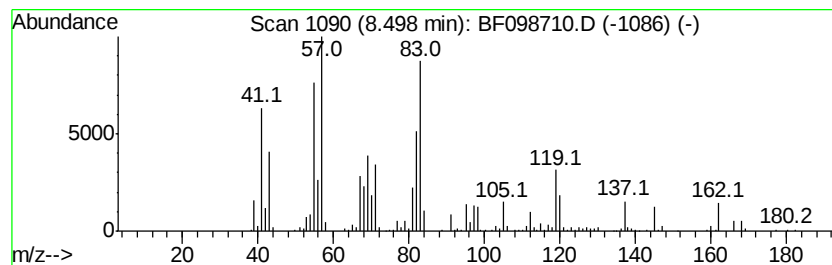
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 9 unknown8.50 Concentration Rank 4

| R.T. | EstConc  | Area    | Relative to ISTD | R.T. |
|------|----------|---------|------------------|------|
| 8.50 | 17.87 ng | 1228750 | Napthalene-d8    | 8.21 |

| Hit# | of | Tentative ID                        | MW  | MolForm | CAS#         | Qual |
|------|----|-------------------------------------|-----|---------|--------------|------|
| 1    | 5  | Cyclopentane, 1-methyl-2-(2-prop... | 124 | C9H16   | 050746-53-7  | 49   |
| 2    |    | Cyclohexane, ethyl-                 | 112 | C8H16   | 001678-91-7  | 47   |
| 3    |    | Cyclohexane, (4-methylpentyl)-      | 168 | C12H24  | 061142-20-9  | 47   |
| 4    |    | Cyclohexane, hexyl-                 | 168 | C12H24  | 004292-75-5  | 46   |
| 5    |    | 2,4-Pentadien-1-ol, 3-ethyl-, (2Z)- | 112 | C7H12O  | 1000142-17-6 | 41   |



Data Path : Z:\HPCHEM1\BNA F\DATA\BF092217\  
Data File : BF098710.D  
Acq On : 22 Sep 2017 21:45  
Operator : SJ/JU  
Sample : I5331-07 5X  
Misc :  
ALS Vial : 9 Sample Multiplier: 1

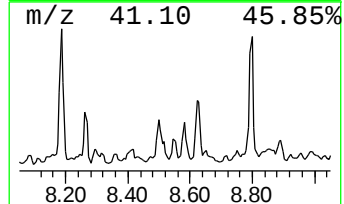
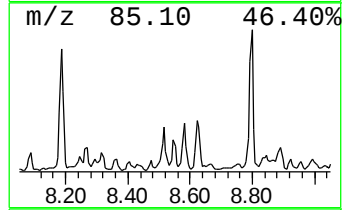
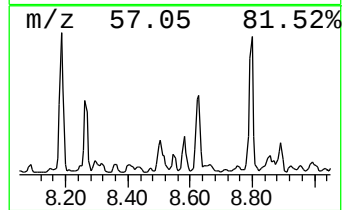
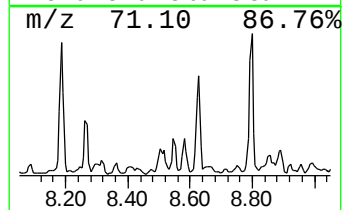
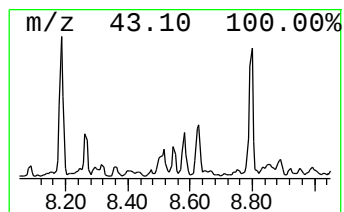
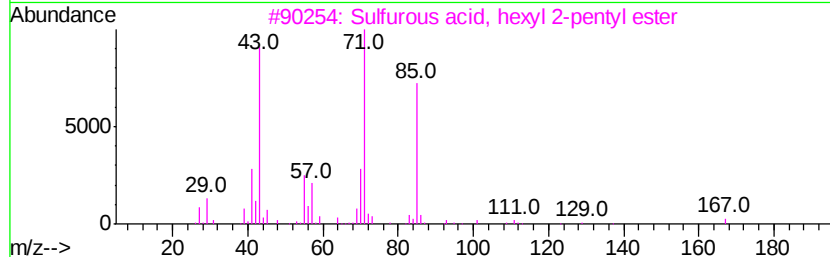
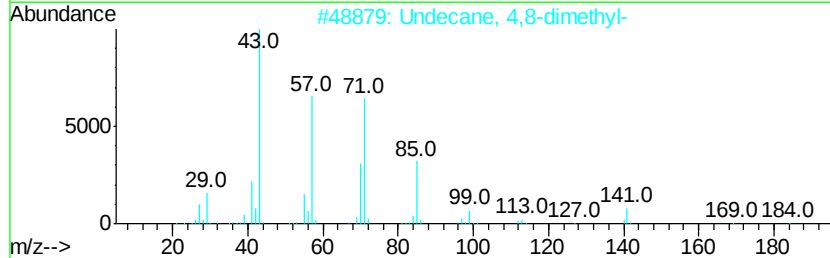
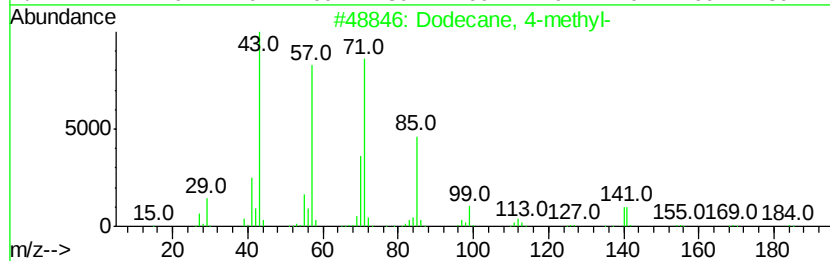
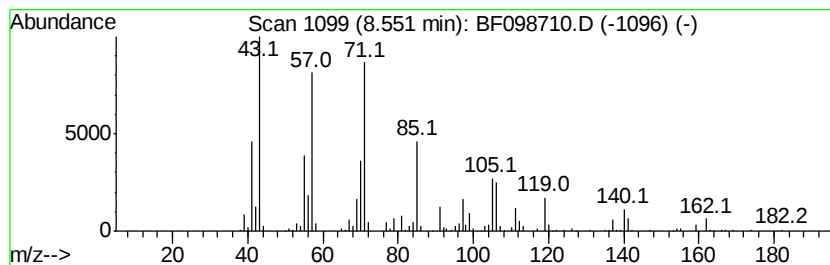
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HR-05-092017-C

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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

\*\*\*\*\*  
Peak Number 10 Dodecane, 4-methyl- Concentration Rank 20

| R.T.      | EstConc                             | Area   | Relative to ISTD | R.T.         |      |
|-----------|-------------------------------------|--------|------------------|--------------|------|
| 8.55      | 8.13 ng                             | 559466 | Napthalene-d8    | 8.21         |      |
| Hit# of 5 | Tentative ID                        | MW     | MolForm          | CAS#         | Qual |
| 1         | Dodecane, 4-methyl-                 | 184    | C13H28           | 006117-97-1  | 58   |
| 2         | Undecane, 4,8-dimethyl-             | 184    | C13H28           | 017301-33-6  | 50   |
| 3         | Sulfurous acid, hexyl 2-pentyl e... | 236    | C11H24O3S        | 1000309-15-6 | 47   |
| 4         | Eicosane, 10-methyl-                | 296    | C21H44           | 054833-23-7  | 47   |
| 5         | 1-Iodo-2-methylnonane               | 268    | C10H21I          | 1000101-47-9 | 43   |



Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF092217\  
Data File : BF098710.D  
Acq On : 22 Sep 2017 21:45  
Operator : SJ/JU  
Sample : I5331-07 5X  
Misc :  
ALS Vial : 9 Sample Multiplier: 1

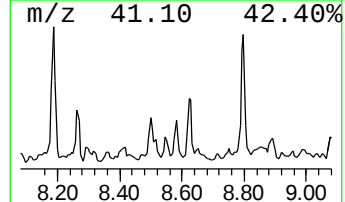
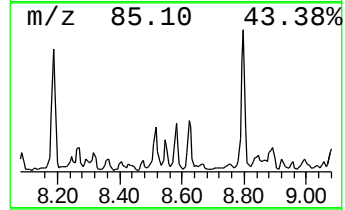
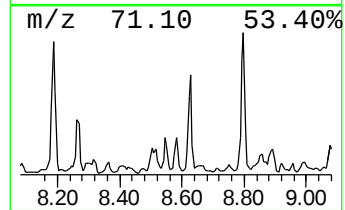
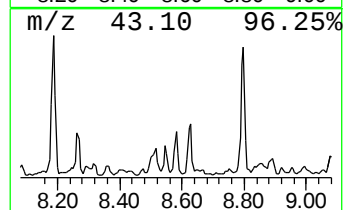
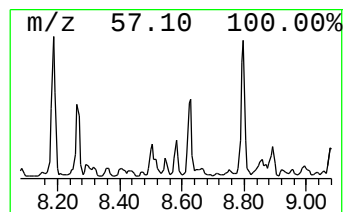
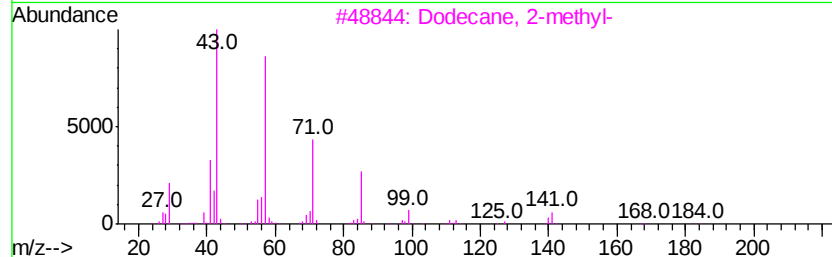
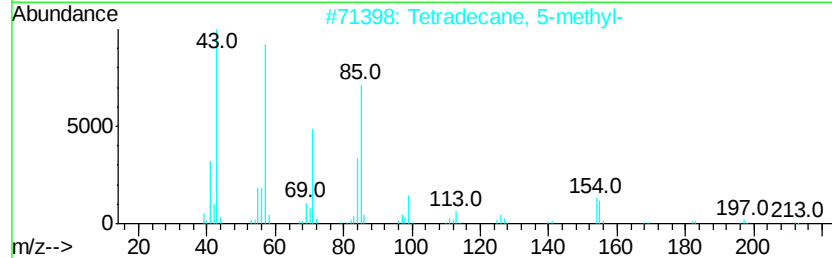
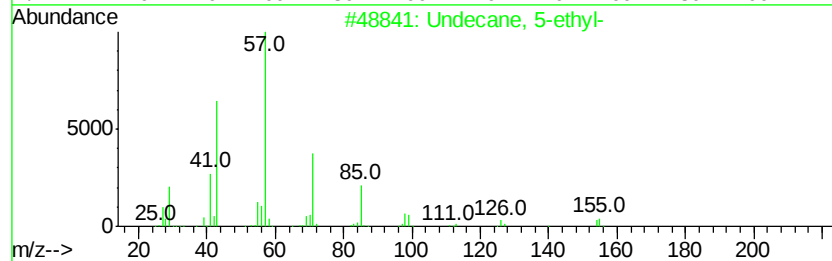
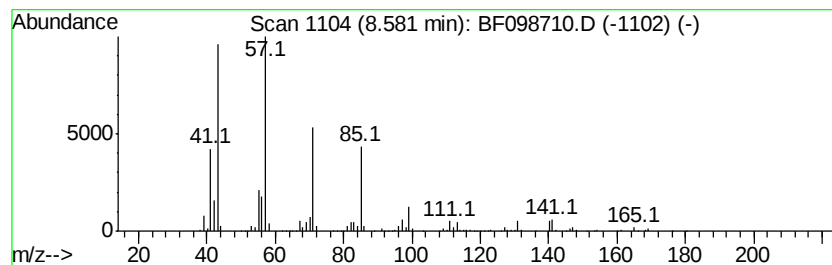
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ClientSampleId :  
HR-05-092017-C

Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF092117.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

\*\*\*\*\*  
Peak Number 11 Undecane, 5-ethyl- Concentration Rank 13

| R.T.    | EstConc                  | Area         | Relative to ISTD | R.T.      |
|---------|--------------------------|--------------|------------------|-----------|
| 8.58    | 10.94 ng                 | 752376       | Napthalene-d8    | 8.21      |
| Hit# of | 5                        | Tentative ID | MW MolForm       | CAS# Qual |
| 1       | Undecane, 5-ethyl-       | 184 C13H28   | 017453-94-0      | 64        |
| 2       | Tetradecane, 5-methyl-   | 212 C15H32   | 025117-32-2      | 64        |
| 3       | Dodecane, 2-methyl-      | 184 C13H28   | 001560-97-0      | 53        |
| 4       | 1-Iodoundecane           | 282 C11H23I  | 004282-44-4      | 52        |
| 5       | Hexane, 2,3,4-trimethyl- | 128 C9H20    | 000921-47-1      | 50        |



Data Path : Z:\HPCHEM1\BNA F\DATA\BF092217\  
Data File : BF098710.D  
Acq On : 22 Sep 2017 21:45  
Operator : SJ/JU  
Sample : I5331-07 5X  
Misc :  
ALS Vial : 9 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
HR-05-092017-C

Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF092117.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

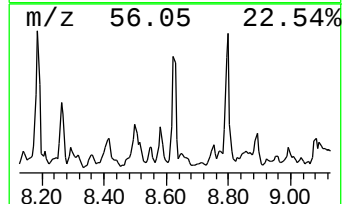
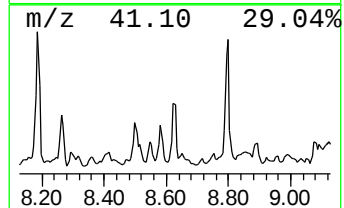
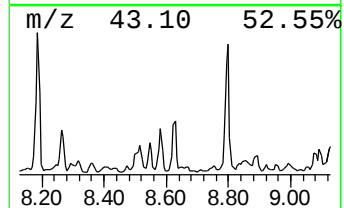
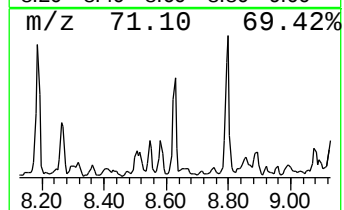
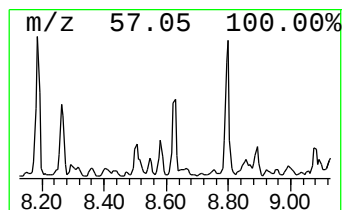
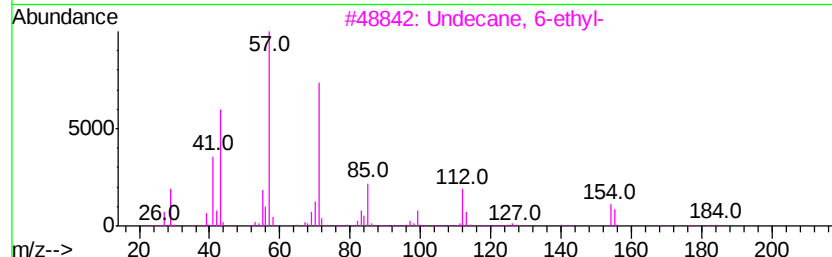
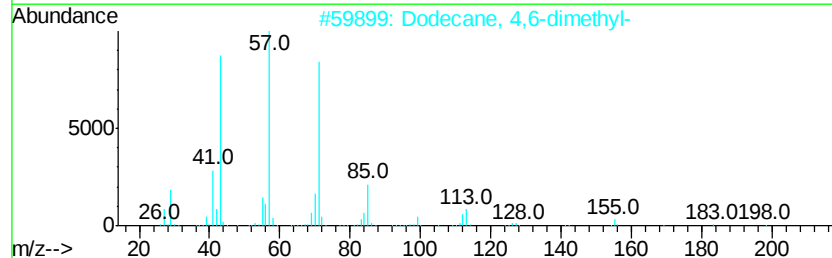
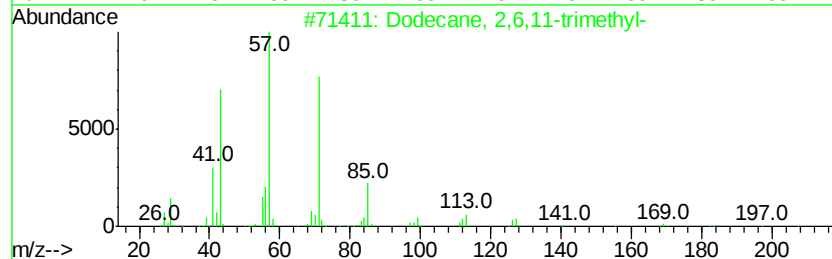
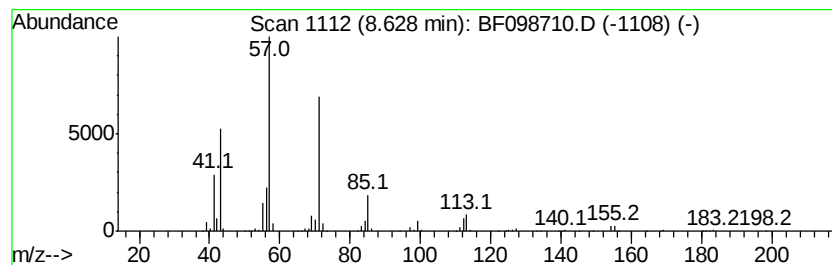
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TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 12 Dodecane, 2,6,11-trimethyl- Concentration Rank 6

| R.T. | EstConc  | Area    | Relative to ISTD | R.T. |
|------|----------|---------|------------------|------|
| 8.63 | 16.74 ng | 1151020 | Napthalene-d8    | 8.21 |

| Hit# | of | Tentative ID                        | MW  | MolForm   | CAS#         | Qual |
|------|----|-------------------------------------|-----|-----------|--------------|------|
| 1    | 5  | Dodecane, 2,6,11-trimethyl-         | 212 | C15H32    | 031295-56-4  | 90   |
| 2    |    | Dodecane, 4,6-dimethyl-             | 198 | C14H30    | 061141-72-8  | 89   |
| 3    |    | Undecane, 6-ethyl-                  | 184 | C13H28    | 017312-60-6  | 72   |
| 4    |    | Nonane, 2,6-dimethyl-               | 156 | C11H24    | 017302-28-2  | 64   |
| 5    |    | Sulfurous acid, 2-ethylhexyl tri... | 376 | C21H44O3S | 1000309-19-6 | 64   |



Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF092217\  
Data File : BF098710.D  
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Sample : I5331-07 5X  
Misc :  
ALS Vial : 9 Sample Multiplier: 1

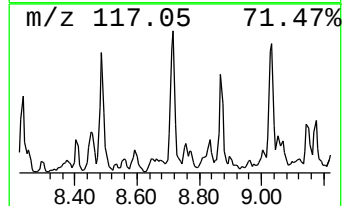
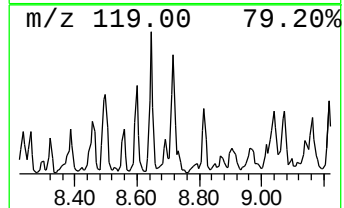
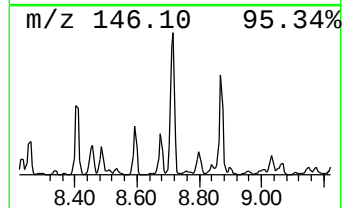
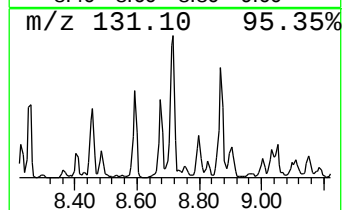
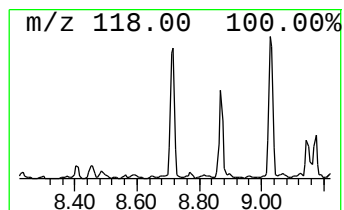
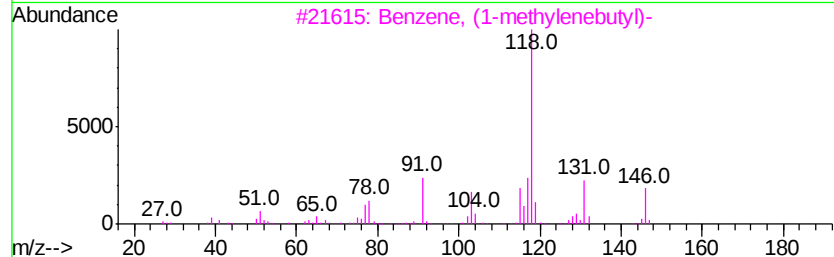
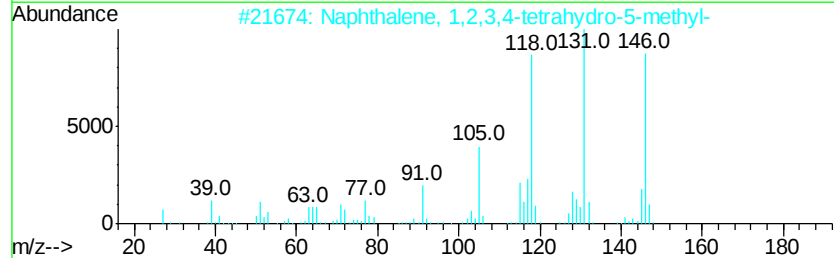
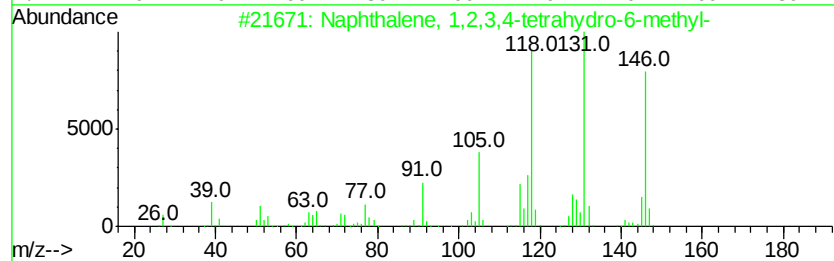
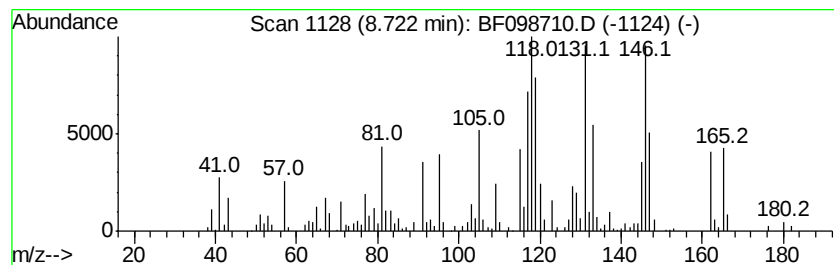
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HR-05-092017-C

Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF092117.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

\*\*\*\*\*  
Peak Number 13 Naphthalene, 1,2,3,4-tetra... Concentration Rank 15

| R.T.    | EstConc | Area                                | Relative to ISTD | R.T.           |
|---------|---------|-------------------------------------|------------------|----------------|
| 8.72    | 9.38 ng | 645427                              | Naphthalene-d8   | 8.21           |
| Hit# of | 5       | Tentative ID                        | MW MolForm       | CAS# Qual      |
| 1       |         | Naphthalene, 1,2,3,4-tetrahydro-... | 146 C11H14       | 001680-51-9 97 |
| 2       |         | Naphthalene, 1,2,3,4-tetrahydro-... | 146 C11H14       | 002809-64-5 96 |
| 3       |         | Benzene, (1-methylenebutyl)-        | 146 C11H14       | 005676-32-4 49 |
| 4       |         | 1H-Inden-1-one, 2,3-dihydro-2-me... | 146 C10H10O      | 017496-14-9 46 |
| 5       |         | Benzene, 2-ethenyl-1,3,5-trimethyl- | 146 C11H14       | 000769-25-5 45 |



Data Path : Z:\HPCHEM1\BNA F\DATA\BF092217\  
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Operator : SJ/JU  
Sample : I5331-07 5X  
Misc :  
ALS Vial : 9 Sample Multiplier: 1

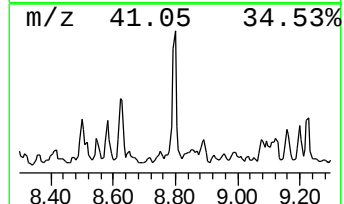
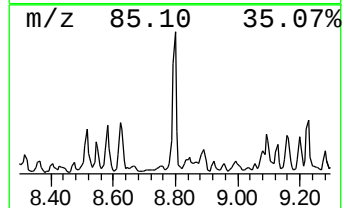
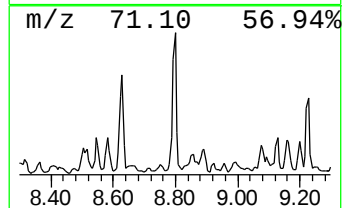
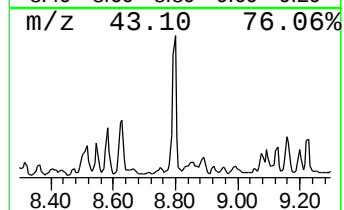
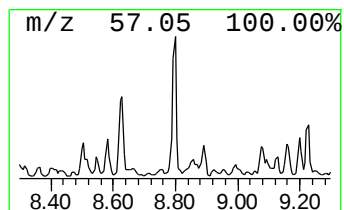
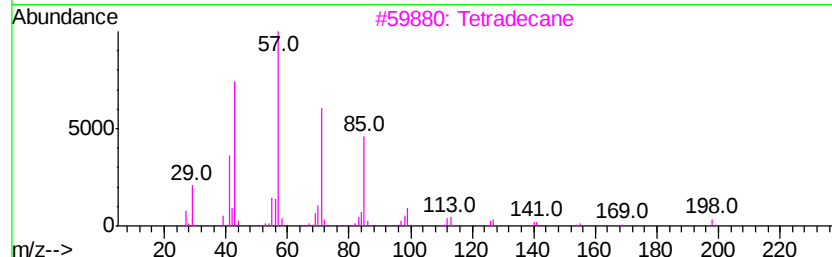
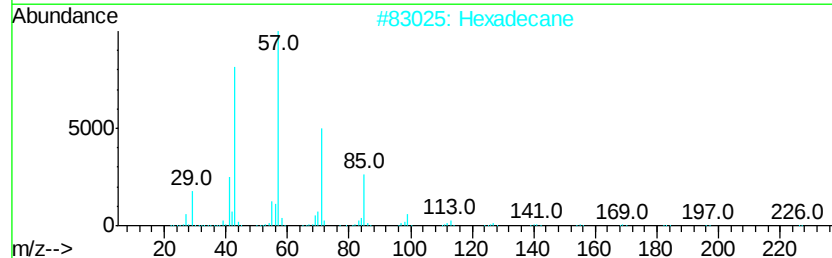
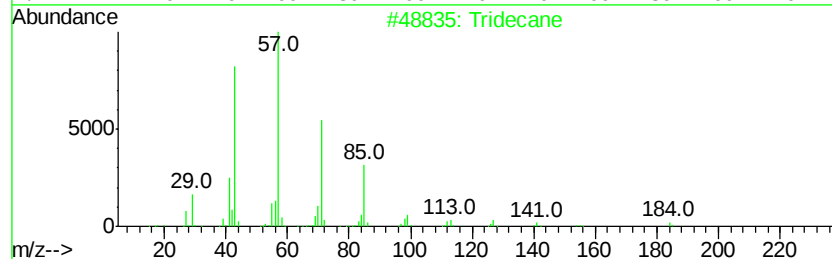
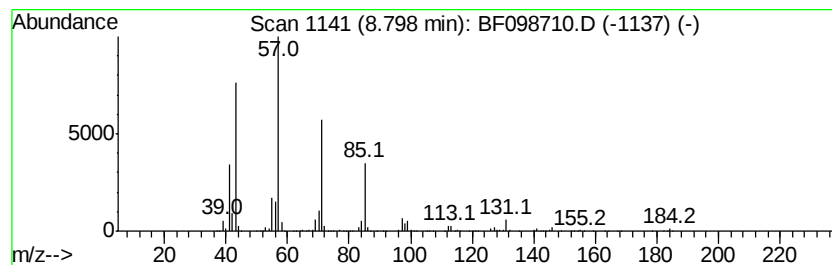
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Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF092117.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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Peak Number 14 Tridecane Concentration Rank 1

| R.T.    | EstConc                 | Area         | Relative to ISTD | R.T.      |
|---------|-------------------------|--------------|------------------|-----------|
| 8.80    | 33.34 ng                | 2292940      | Naphthalene-d8   | 8.21      |
| Hit# of | 5                       | Tentative ID | MW MolForm       | CAS# Qual |
| 1       | Tridecane               | 184 C13H28   | 000629-50-5      | 90        |
| 2       | Hexadecane              | 226 C16H34   | 000544-76-3      | 87        |
| 3       | Tetradecane             | 198 C14H30   | 000629-59-4      | 86        |
| 4       | Undecane, 2,3-dimethyl- | 184 C13H28   | 017312-77-5      | 72        |
| 5       | Undecane, 6-ethyl-      | 184 C13H28   | 017312-60-6      | 72        |



Data Path : Z:\HPCHEM1\BNA F\DATA\BF092217\  
Data File : BF098710.D  
Acq On : 22 Sep 2017 21:45  
Operator : SJ/JU  
Sample : I5331-07 5X  
Misc :  
ALS Vial : 9 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
HR-05-092017-C

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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

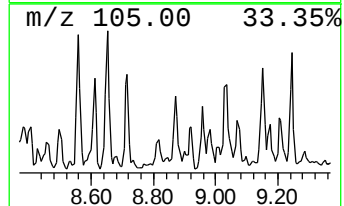
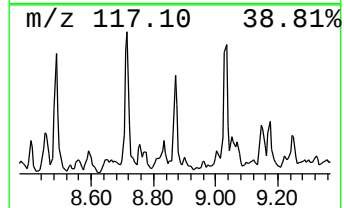
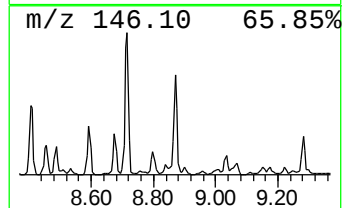
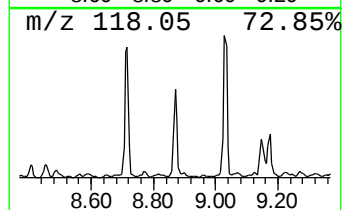
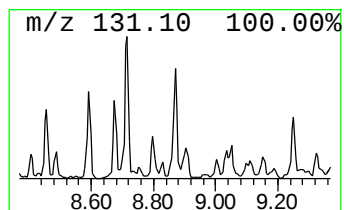
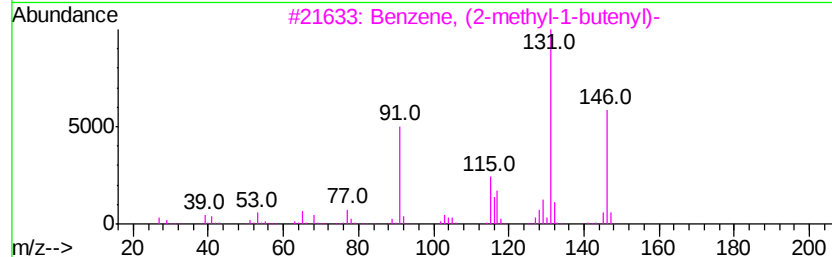
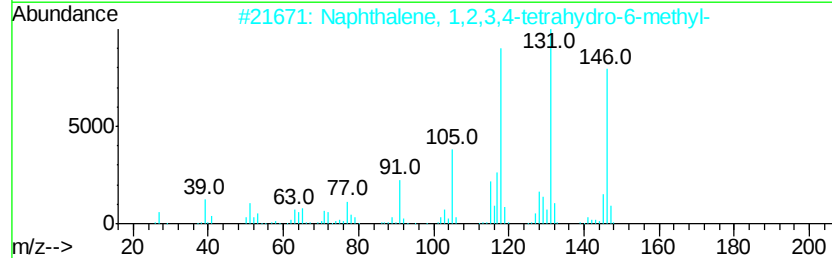
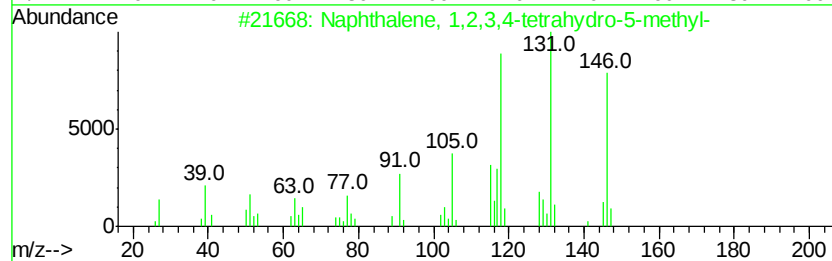
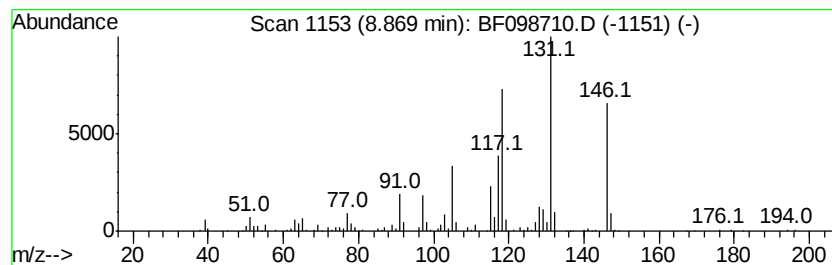
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TIC Integration Parameters: LSCINT.P

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Peak Number 15 Naphthalene, 1,2,3,4-tetra... Concentration Rank 19

| R.T. | EstConc | Area   | Relative to ISTD | R.T. |
|------|---------|--------|------------------|------|
| 8.87 | 8.20 ng | 563806 | Naphthalene-d8   | 8.21 |

| Hit# | of | Tentative ID                        | MW  | MolForm | CAS#        | Qual |
|------|----|-------------------------------------|-----|---------|-------------|------|
| 1    | 5  | Naphthalene, 1,2,3,4-tetrahydro-... | 146 | C11H14  | 002809-64-5 | 93   |
| 2    |    | Naphthalene, 1,2,3,4-tetrahydro-... | 146 | C11H14  | 001680-51-9 | 91   |
| 3    |    | Benzene, (2-methyl-1-butenvl)-      | 146 | C11H14  | 056253-64-6 | 64   |
| 4    |    | Benzene, (1-methyl-1-butenvl)-      | 146 | C11H14  | 053172-84-2 | 64   |
| 5    |    | Benzene, 1-methyl-4-(1-methyl-2-... | 146 | C11H14  | 097664-18-1 | 60   |



Data Path : Z:\HPCHEM1\BNA F\DATA\BF092217\  
Data File : BF098710.D  
Acq On : 22 Sep 2017 21:45  
Operator : SJ/JU  
Sample : I5331-07 5X  
Misc :  
ALS Vial : 9 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
HR-05-092017-C

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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

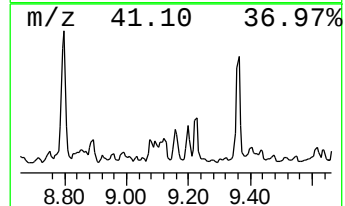
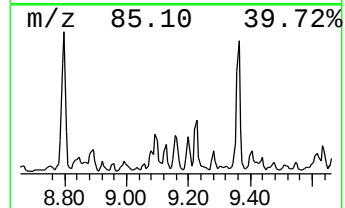
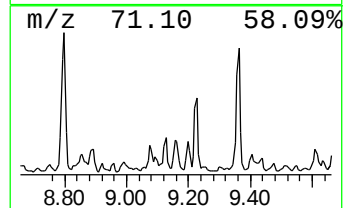
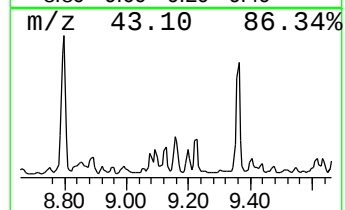
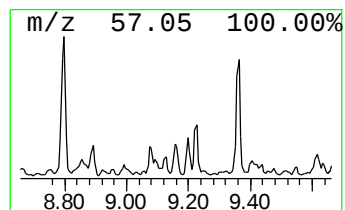
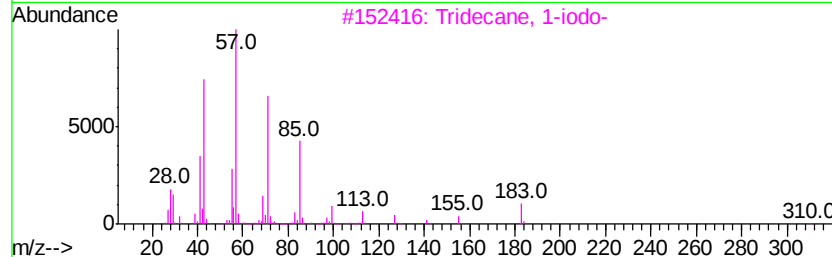
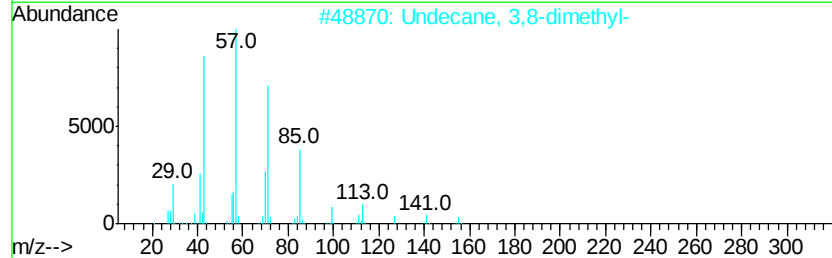
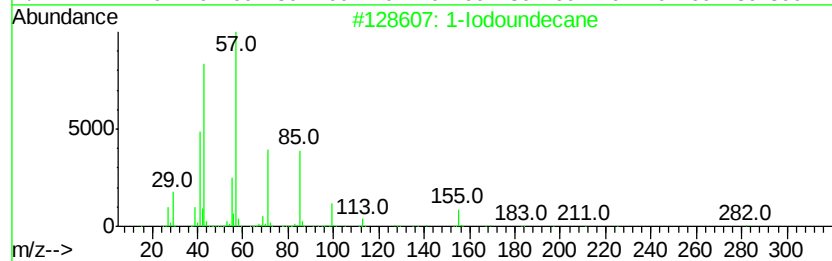
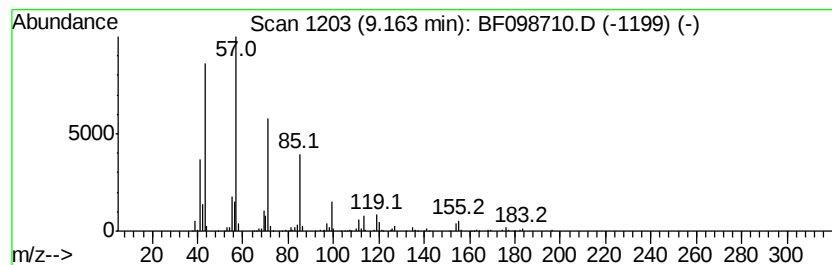
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 16 1-Iodoundecane Concentration Rank 14

| R.T. | EstConc  | Area   | Relative to ISTD | R.T. |
|------|----------|--------|------------------|------|
| 9.16 | 10.70 ng | 753003 | Acenaphthene-d10 | 9.97 |

| Hit# | of | Tentative ID            | MW  | MolForm | CAS#        | Qual |
|------|----|-------------------------|-----|---------|-------------|------|
| 1    | 5  | 1-Iodoundecane          | 282 | C11H23I | 004282-44-4 | 64   |
| 2    |    | Undecane, 3,8-dimethyl- | 184 | C13H28  | 017301-30-3 | 64   |
| 3    |    | Tridecane, 1-iodo-      | 310 | C13H27I | 035599-77-0 | 64   |
| 4    |    | Tridecane, 2-methyl-    | 198 | C14H30  | 001560-96-9 | 64   |
| 5    |    | Dodecane, 3-methyl-     | 184 | C13H28  | 017312-57-1 | 59   |



Data Path : Z:\HPCHEM1\BNA F\DATA\BF092217\  
Data File : BF098710.D  
Acq On : 22 Sep 2017 21:45  
Operator : SJ/JU  
Sample : I5331-07 5X  
Misc :  
ALS Vial : 9 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
HR-05-092017-C

Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF092117.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

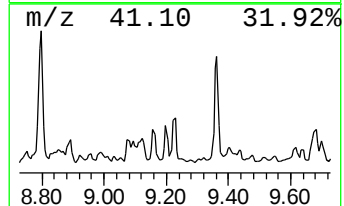
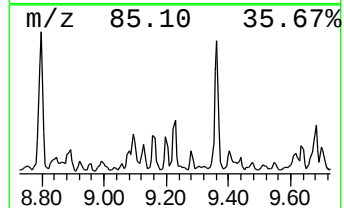
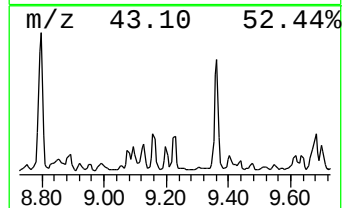
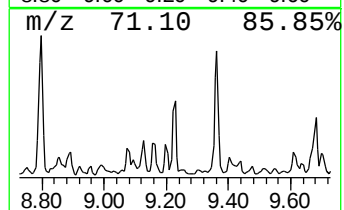
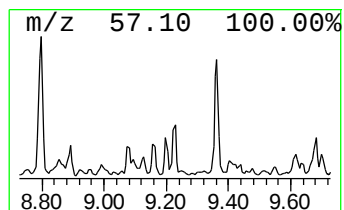
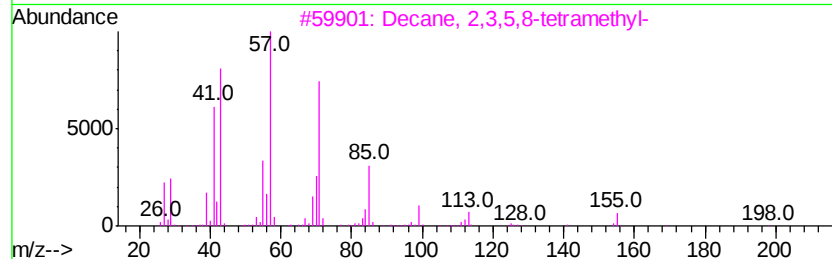
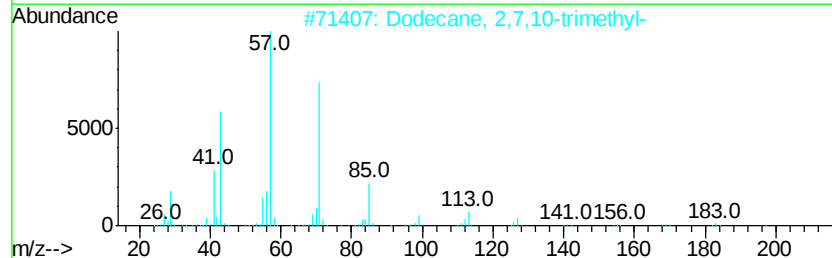
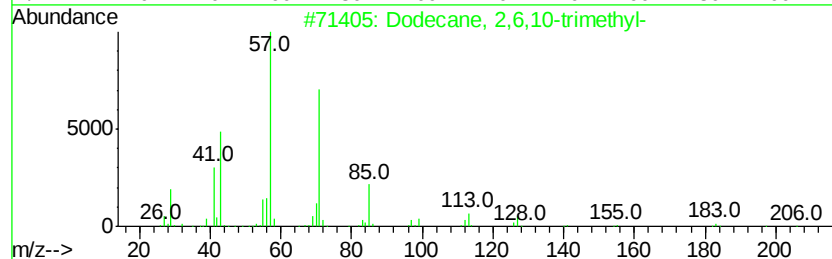
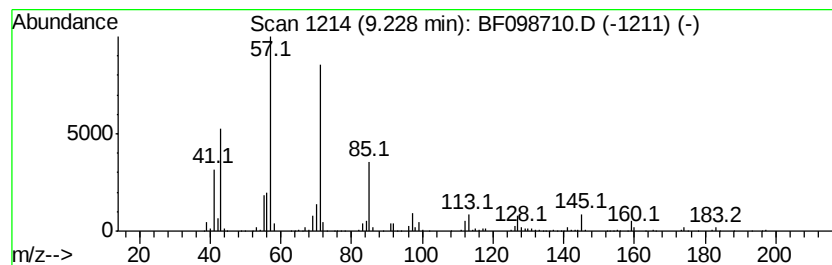
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 17 Dodecane, 2,6,10-trimethyl- Concentration Rank 12

| R.T. | EstConc  | Area   | Relative to ISTD | R.T. |
|------|----------|--------|------------------|------|
| 9.23 | 11.76 ng | 827540 | Acenaphthene-d10 | 9.97 |

| Hit# | of | Tentative ID                 | MW  | MolForm  | CAS#        | Qual |
|------|----|------------------------------|-----|----------|-------------|------|
| 1    | 5  | Dodecane, 2,6,10-trimethyl-  | 212 | C15H32   | 003891-98-3 | 86   |
| 2    |    | Dodecane, 2,7,10-trimethyl-  | 212 | C15H32   | 074645-98-0 | 80   |
| 3    |    | Decane, 2,3,5,8-tetramethyl- | 198 | C14H30   | 192823-15-7 | 72   |
| 4    |    | Bacchotricuneatin c          | 342 | C20H22O5 | 066563-30-2 | 72   |
| 5    |    | Octane, 2,6-dimethyl-        | 142 | C10H22   | 002051-30-1 | 72   |



Data Path : Z:\HPCHEM1\BNA F\DATA\BF092217\  
Data File : BF098710.D  
Acq On : 22 Sep 2017 21:45  
Operator : SJ/JU  
Sample : I5331-07 5X  
Misc :  
ALS Vial : 9 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
HR-05-092017-C

Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF092117.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

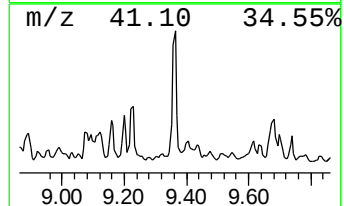
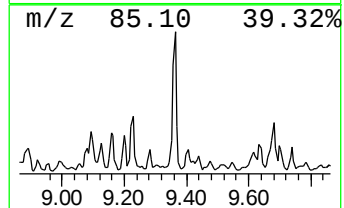
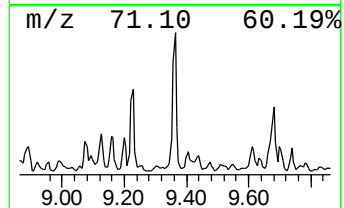
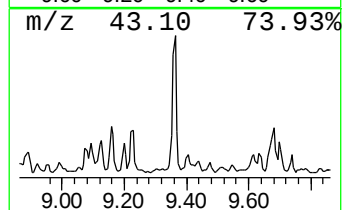
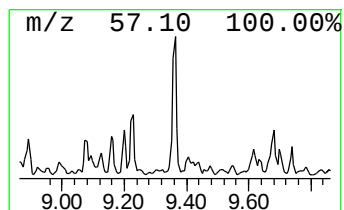
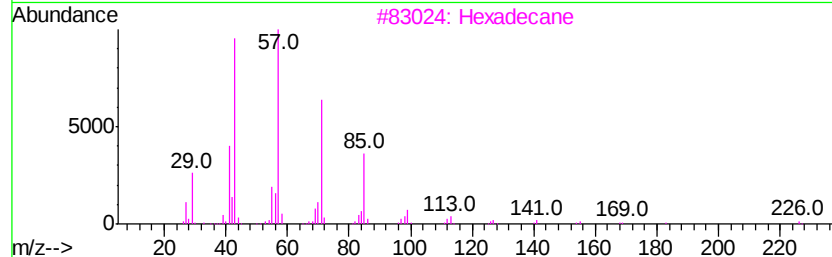
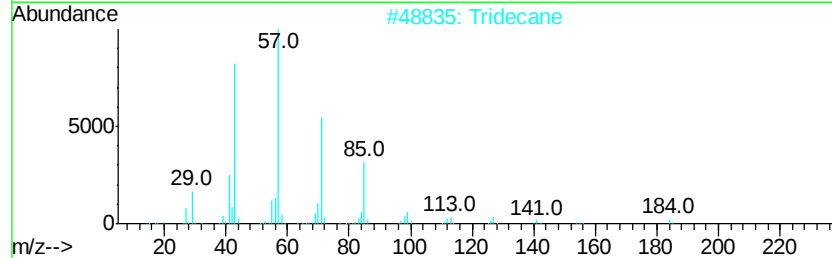
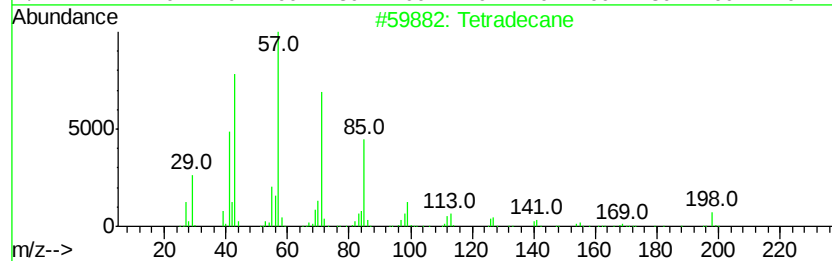
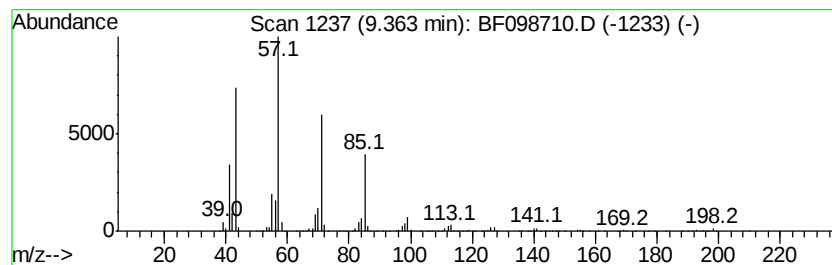
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 18 Tetradecane Concentration Rank 2

| R.T. | EstConc  | Area    | Relative to ISTD | R.T. |
|------|----------|---------|------------------|------|
| 9.36 | 26.13 ng | 1839360 | Acenaphthene-d10 | 9.97 |

| Hit# | of | Tentative ID         | MW  | MolForm  | CAS#        | Qual |
|------|----|----------------------|-----|----------|-------------|------|
| 1    | 5  | Tetradecane          | 198 | C14H30   | 000629-59-4 | 97   |
| 2    |    | Tridecane            | 184 | C13H28   | 000629-50-5 | 90   |
| 3    |    | Hexadecane           | 226 | C16H34   | 000544-76-3 | 90   |
| 4    |    | Bacchotricuneatin c  | 342 | C20H22O5 | 066563-30-2 | 74   |
| 5    |    | Tridecane, 7-methyl- | 198 | C14H30   | 026730-14-3 | 55   |



Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF092217\  
Data File : BF098710.D  
Acq On : 22 Sep 2017 21:45  
Operator : SJ/JU  
Sample : I5331-07 5X  
Misc :  
ALS Vial : 9 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
HR-05-092017-C

Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF092117.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

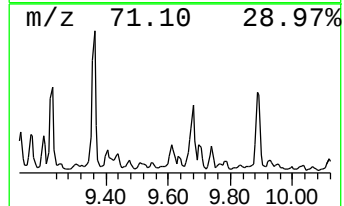
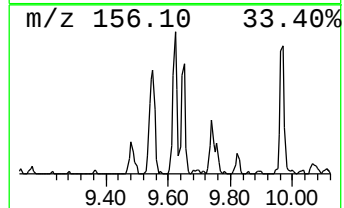
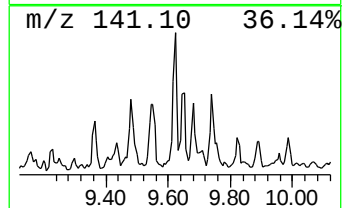
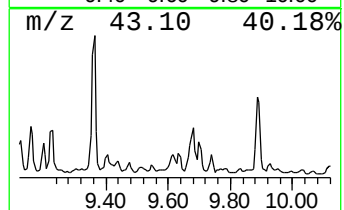
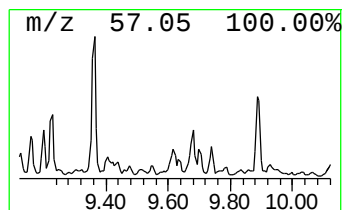
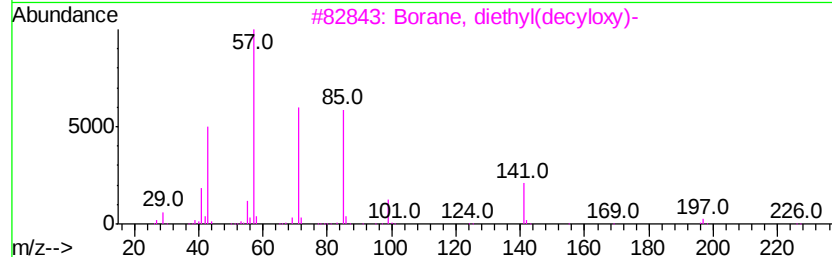
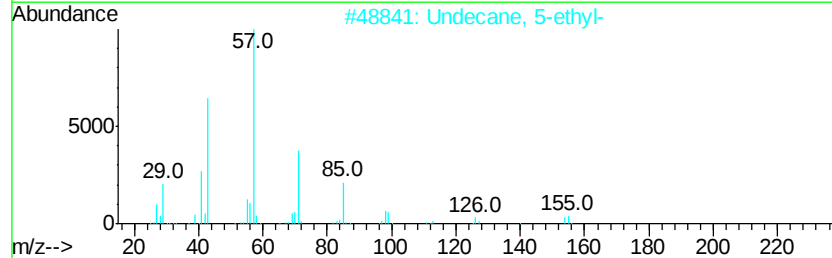
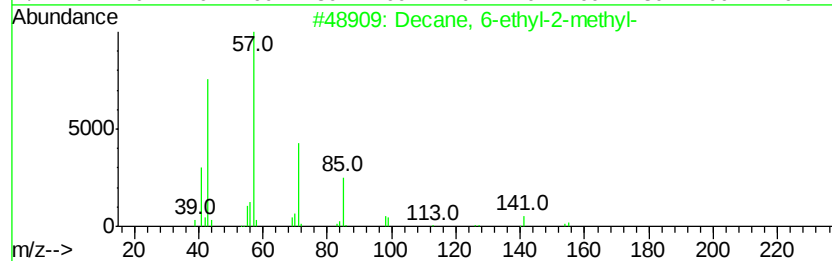
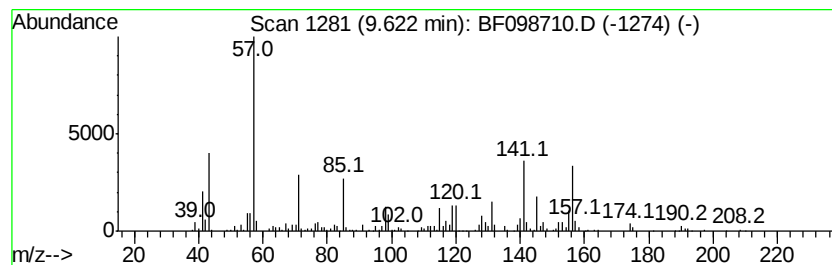
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 19 unknown9.62 Concentration Rank 18

| R.T. | EstConc | Area   | Relative to ISTD | R.T. |
|------|---------|--------|------------------|------|
| 9.62 | 8.65 ng | 609045 | Acenaphthene-d10 | 9.97 |

| Hit# | of | 5 | Tentative ID                        | MW  | MolForm   | CAS#         | Qual |
|------|----|---|-------------------------------------|-----|-----------|--------------|------|
| 1    |    |   | Decane, 6-ethyl-2-methyl-           | 184 | C13H28    | 062108-21-8  | 47   |
| 2    |    |   | Undecane, 5-ethyl-                  | 184 | C13H28    | 017453-94-0  | 47   |
| 3    |    |   | Borane, diethyl(decvloxy)-          | 226 | C14H31BO  | 1000152-34-3 | 47   |
| 4    |    |   | Octane, 2-methyl-                   | 128 | C9H20     | 003221-61-2  | 46   |
| 5    |    |   | Sulfurous acid, 2-ethylhexyl hex... | 278 | C14H30O3S | 1000309-20-2 | 46   |



Data Path : Z:\HPCHEM1\BNA F\DATA\BF092217\  
Data File : BF098710.D  
Acq On : 22 Sep 2017 21:45  
Operator : SJ/JU  
Sample : I5331-07 5X  
Misc :  
ALS Vial : 9 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
HR-05-092017-C

Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF092117.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

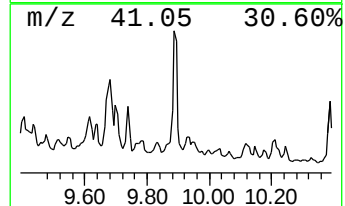
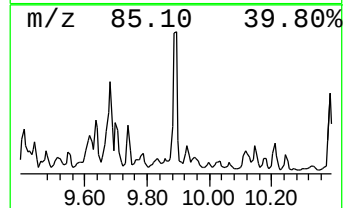
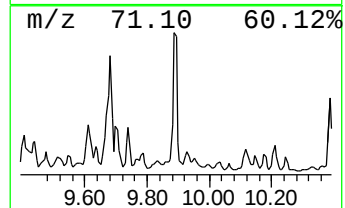
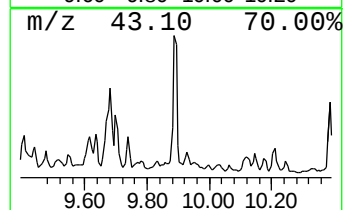
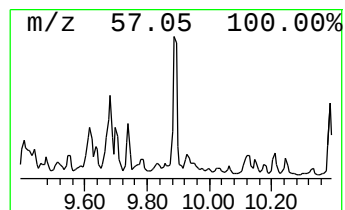
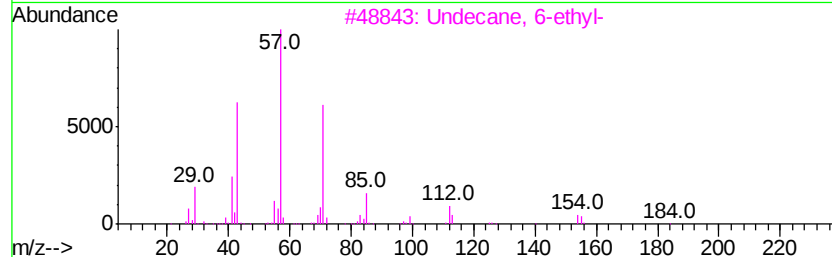
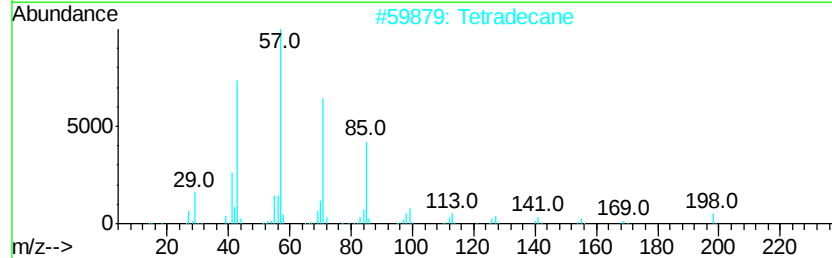
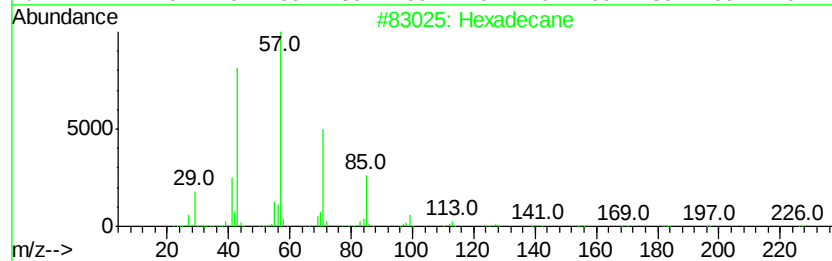
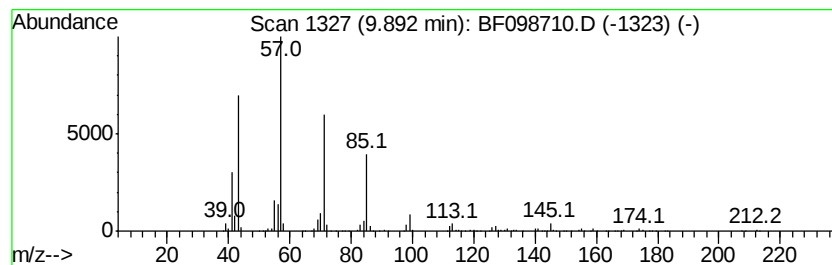
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 20 Hexadecane Concentration Rank 8

| R.T. | EstConc  | Area    | Relative to ISTD | R.T. |
|------|----------|---------|------------------|------|
| 9.89 | 15.15 ng | 1066490 | Acenaphthene-d10 | 9.97 |

| Hit# | of | Tentative ID        | MW  | MolForm  | CAS#        | Qual |
|------|----|---------------------|-----|----------|-------------|------|
| 1    | 5  | Hexadecane          | 226 | C16H34   | 000544-76-3 | 86   |
| 2    |    | Tetradecane         | 198 | C14H30   | 000629-59-4 | 80   |
| 3    |    | Undecane, 6-ethyl-  | 184 | C13H28   | 017312-60-6 | 64   |
| 4    |    | Bacchotricuneatin c | 342 | C20H22O5 | 066563-30-2 | 64   |
| 5    |    | Nonane, 5-butyl-    | 184 | C13H28   | 017312-63-9 | 59   |



Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF092217\  
 Data File : BF098710.D  
 Acq On : 22 Sep 2017 21:45  
 Operator : SJ/JU  
 Sample : I5331-07 5X  
 Misc :  
 ALS Vial : 9 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 HR-05-092017-C

Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF092117.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

| TIC Top Hit name     | RT   | EstConc | Units | Response | --Internal Standard-- |      |         |      |
|----------------------|------|---------|-------|----------|-----------------------|------|---------|------|
|                      |      |         |       |          | #                     | RT   | Resp    | Conc |
| unknown6.69          | 6.69 | 16.2    | ng    | 963710   | 1                     | 6.93 | 1189850 | 20.0 |
| 1-Iodo-2-methylun... | 6.76 | 20.3    | ng    | 1206280  | 1                     | 6.93 | 1189850 | 20.0 |
| Benzene, 1-methyl... | 7.20 | 8.8     | ng    | 521319   | 1                     | 6.93 | 1189850 | 20.0 |
| Decane, 3-methyl-    | 7.31 | 12.4    | ng    | 739827   | 1                     | 6.93 | 1189850 | 20.0 |
| Decane, 2,4-dimet... | 7.89 | 8.8     | ng    | 604323   | 2                     | 8.21 | 1375470 | 20.0 |
| unknown7.95          | 7.95 | 13.8    | ng    | 946606   | 2                     | 8.21 | 1375470 | 20.0 |
| Decane, 2,5,9-tri... | 8.26 | 16.9    | ng    | 1161500  | 2                     | 8.21 | 1375470 | 20.0 |
| unknown8.50          | 8.50 | 17.9    | ng    | 1228750  | 2                     | 8.21 | 1375470 | 20.0 |
| Dodecane, 4-methyl-  | 8.55 | 8.1     | ng    | 559466   | 2                     | 8.21 | 1375470 | 20.0 |
| Undecane, 5-ethyl-   | 8.58 | 10.9    | ng    | 752376   | 2                     | 8.21 | 1375470 | 20.0 |
| Dodecane, 2,6,11-... | 8.63 | 16.7    | ng    | 1151020  | 2                     | 8.21 | 1375470 | 20.0 |
| Naphthalene, 1,2,... | 8.72 | 9.4     | ng    | 645427   | 2                     | 8.21 | 1375470 | 20.0 |
| Tridecane            | 8.80 | 33.3    | ng    | 2292940  | 2                     | 8.21 | 1375470 | 20.0 |
| Naphthalene, 1,2,... | 8.87 | 8.2     | ng    | 563806   | 2                     | 8.21 | 1375470 | 20.0 |
| 1-Iodoundecane       | 9.16 | 10.7    | ng    | 753003   | 3                     | 9.97 | 1407640 | 20.0 |
| Dodecane, 2,6,10-... | 9.23 | 11.8    | ng    | 827540   | 3                     | 9.97 | 1407640 | 20.0 |
| Tetradecane          | 9.36 | 26.1    | ng    | 1839360  | 3                     | 9.97 | 1407640 | 20.0 |
| unknown9.62          | 9.62 | 8.7     | ng    | 609045   | 3                     | 9.97 | 1407640 | 20.0 |
| Hexadecane           | 9.89 | 15.2    | ng    | 1066490  | 3                     | 9.97 | 1407640 | 20.0 |