

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF080918\  
 Data File : BF108053.D  
 Acq On : 9 Aug 2018 15:34  
 Operator : JU/SJ  
 Sample : J4271-03 2X  
 Misc :  
 ALS Vial : 15 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 HR-05-080818-B

Integration Parameters: rteint.p  
 Integrator: RTE  
 Smoothing : ON  
 Sampling : 1  
 Start Thrs: 0.2  
 Stop Thrs : 0

Filtering: 5  
 Min Area: 3 % of largest Peak  
 Max Peaks: 100  
 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >  
 Peak separation: 5

Method : Z:\SVOASRV\HPCHEM1\BNA\_F\METHODS\8270-BF080818.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         | 2.390       | 5             | 9           | 18           | rVB      | 174822         | 260332        | 6.53%           | 0.507%        |
| 2         | 4.937       | 439           | 442         | 448          | rVB      | 81588          | 81117         | 2.03%           | 0.158%        |
| 3         | 5.260       | 491           | 497         | 500          | rBV      | 3276695        | 3989009       | 100.00%         | 7.769%        |
| 4         | 5.637       | 557           | 561         | 564          | rBV      | 3723079        | 3332647       | 83.55%          | 6.491%        |
| 5         | 6.554       | 712           | 717         | 722          | rBV5     | 30427          | 48945         | 1.23%           | 0.095%        |
| 6         | 6.625       | 724           | 729         | 732          | rBV      | 4026529        | 3515528       | 88.13%          | 6.847%        |
| 7         | 6.784       | 751           | 756         | 759          | rBV      | 3775524        | 3461926       | 86.79%          | 6.743%        |
| 8         | 6.837       | 763           | 765         | 769          | rBV2     | 59009          | 56464         | 1.42%           | 0.110%        |
| 9         | 7.013       | 792           | 795         | 799          | rVB      | 2127474        | 1884486       | 47.24%          | 3.670%        |
| 10        | 7.172       | 818           | 822         | 825          | rVB      | 3089889        | 2542567       | 63.74%          | 4.952%        |
| 11        | 7.278       | 835           | 840         | 843          | rBV3     | 58800          | 82572         | 2.07%           | 0.161%        |
| 12        | 7.437       | 865           | 867         | 871          | rVB4     | 41711          | 52751         | 1.32%           | 0.103%        |
| 13        | 7.484       | 871           | 875         | 880          | rBV5     | 29496          | 49667         | 1.25%           | 0.097%        |
| 14        | 7.542       | 880           | 885         | 886          | rBV3     | 100916         | 132129        | 3.31%           | 0.257%        |
| 15        | 7.572       | 886           | 890         | 893          | rVV      | 2589262        | 2241267       | 56.19%          | 4.365%        |
| 16        | 7.595       | 893           | 894         | 896          | rVV      | 225624         | 110224        | 2.76%           | 0.215%        |
| 17        | 7.654       | 899           | 904         | 907          | rBV5     | 99358          | 152691        | 3.83%           | 0.297%        |
| 18        | 7.701       | 907           | 912         | 916          | rBV4     | 68634          | 110039        | 2.76%           | 0.214%        |
| 19        | 7.742       | 916           | 919         | 922          | rBV4     | 32754          | 52648         | 1.32%           | 0.103%        |
| 20        | 7.778       | 922           | 925         | 927          | rVB3     | 59351          | 44987         | 1.13%           | 0.088%        |
| 21        | 7.819       | 930           | 932         | 937          | rVB3     | 133461         | 143261        | 3.59%           | 0.279%        |
| 22        | 7.907       | 939           | 947         | 949          | rBV5     | 110171         | 194451        | 4.87%           | 0.379%        |
| 23        | 7.937       | 949           | 952         | 954          | rBV3     | 167056         | 137320        | 3.44%           | 0.267%        |
| 24        | 7.995       | 959           | 962         | 965          | rBV4     | 79388          | 89950         | 2.25%           | 0.175%        |
| 25        | 8.031       | 965           | 968         | 971          | rBV      | 131155         | 116793        | 2.93%           | 0.227%        |
| 26        | 8.078       | 974           | 976         | 978          | rVB2     | 63470          | 47874         | 1.20%           | 0.093%        |
| 27        | 8.107       | 978           | 981         | 983          | rBV4     | 60212          | 59211         | 1.48%           | 0.115%        |
| 28        | 8.131       | 983           | 985         | 988          | rVB2     | 53954          | 46582         | 1.17%           | 0.091%        |
| 29        | 8.160       | 988           | 990         | 993          | rVB2     | 109715         | 106042        | 2.66%           | 0.207%        |
| 30        | 8.195       | 993           | 996         | 999          | rBV3     | 75532          | 104655        | 2.62%           | 0.204%        |
| 31        | 8.266       | 1005          | 1008        | 1010         | rBV      | 426349         | 386061        | 9.68%           | 0.752%        |
| 32        | 8.301       | 1010          | 1014        | 1017         | rVV      | 2581367        | 2377803       | 59.61%          | 4.631%        |
| 33        | 8.342       | 1018          | 1021        | 1024         | rVB2     | 393844         | 344690        | 8.64%           | 0.671%        |
| 34        | 8.378       | 1024          | 1027        | 1033         | rVB6     | 117277         | 156582        | 3.93%           | 0.305%        |

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 Sample : J4271-03 2X  
 Misc :  
 ALS Vial : 15 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 HR-05-080818-B

Integration Parameters: rteint.p  
 Integrator: RTE  
 Smoothing : ON  
 Sampling : 1  
 Start Thrs: 0.2  
 Stop Thrs : 0

Filtering: 5  
 Min Area: 3 % of largest Peak  
 Max Peaks: 100  
 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >  
 Peak separation: 5

Method : Z:\SVOASRV\HPCHEM1\BNA\_F\METHODS\8270-BF080818.M  
 Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

|    |        |      |      |      |      |         |         |        |        |
|----|--------|------|------|------|------|---------|---------|--------|--------|
| 35 | 8.442  | 1035 | 1038 | 1040 | rBV4 | 41515   | 50702   | 1.27%  | 0.099% |
| 36 | 8.472  | 1040 | 1043 | 1045 | rBV3 | 77339   | 68701   | 1.72%  | 0.134% |
| 37 | 8.495  | 1045 | 1047 | 1052 | rVB4 | 112764  | 107057  | 2.68%  | 0.209% |
| 38 | 8.542  | 1053 | 1055 | 1058 | rBV4 | 55522   | 52774   | 1.32%  | 0.103% |
| 39 | 8.578  | 1058 | 1061 | 1066 | rVB3 | 306902  | 389360  | 9.76%  | 0.758% |
| 40 | 8.625  | 1066 | 1069 | 1072 | rBV4 | 120587  | 164916  | 4.13%  | 0.321% |
| 41 | 8.660  | 1073 | 1075 | 1080 | rVV4 | 91442   | 97914   | 2.45%  | 0.191% |
| 42 | 8.701  | 1080 | 1082 | 1085 | rVB  | 411356  | 316856  | 7.94%  | 0.617% |
| 43 | 8.731  | 1085 | 1087 | 1090 | rBV3 | 115099  | 101742  | 2.55%  | 0.198% |
| 44 | 8.801  | 1096 | 1099 | 1101 | rBV2 | 164357  | 152856  | 3.83%  | 0.298% |
| 45 | 8.836  | 1101 | 1105 | 1106 | rVV3 | 98174   | 104254  | 2.61%  | 0.203% |
| 46 | 8.878  | 1106 | 1112 | 1116 | rVV  | 578695  | 618019  | 15.49% | 1.204% |
| 47 | 8.919  | 1116 | 1119 | 1121 | rBV3 | 89583   | 111569  | 2.80%  | 0.217% |
| 48 | 9.042  | 1137 | 1140 | 1142 | rVB3 | 95063   | 68496   | 1.72%  | 0.133% |
| 49 | 9.072  | 1142 | 1145 | 1147 | rBV3 | 106870  | 119781  | 3.00%  | 0.233% |
| 50 | 9.119  | 1151 | 1153 | 1155 | rBV2 | 136082  | 101068  | 2.53%  | 0.197% |
| 51 | 9.160  | 1158 | 1160 | 1161 | rVV2 | 105576  | 88856   | 2.23%  | 0.173% |
| 52 | 9.201  | 1165 | 1167 | 1170 | rVB3 | 173261  | 181037  | 4.54%  | 0.353% |
| 53 | 9.242  | 1170 | 1174 | 1176 | rBV2 | 195814  | 212111  | 5.32%  | 0.413% |
| 54 | 9.284  | 1179 | 1181 | 1182 | rVV  | 79994   | 55234   | 1.38%  | 0.108% |
| 55 | 9.307  | 1182 | 1185 | 1187 | rVB  | 419569  | 300788  | 7.54%  | 0.586% |
| 56 | 9.372  | 1192 | 1196 | 1200 | rBV  | 4343562 | 3755559 | 94.15% | 7.315% |
| 57 | 9.442  | 1205 | 1208 | 1213 | rVV  | 659173  | 671831  | 16.84% | 1.309% |
| 58 | 9.484  | 1213 | 1215 | 1217 | rVV3 | 105907  | 102738  | 2.58%  | 0.200% |
| 59 | 9.525  | 1220 | 1222 | 1224 | rVB2 | 134498  | 100527  | 2.52%  | 0.196% |
| 60 | 9.631  | 1238 | 1240 | 1242 | rBV3 | 56927   | 47540   | 1.19%  | 0.093% |
| 61 | 9.701  | 1247 | 1252 | 1254 | rBV4 | 86113   | 144911  | 3.63%  | 0.282% |
| 62 | 9.766  | 1260 | 1263 | 1266 | rBV  | 726665  | 648478  | 16.26% | 1.263% |
| 63 | 9.825  | 1271 | 1273 | 1276 | rVB3 | 110620  | 92036   | 2.31%  | 0.179% |
| 64 | 9.907  | 1285 | 1287 | 1288 | rBV  | 73179   | 49848   | 1.25%  | 0.097% |
| 65 | 9.972  | 1295 | 1298 | 1303 | rVB  | 418838  | 395556  | 9.92%  | 0.770% |
| 66 | 10.013 | 1303 | 1305 | 1308 | rBV3 | 44427   | 48217   | 1.21%  | 0.094% |
| 67 | 10.066 | 1308 | 1314 | 1317 | rBV  | 2466193 | 2336074 | 58.56% | 4.550% |
| 68 | 10.236 | 1341 | 1343 | 1345 | rVB2 | 69638   | 54972   | 1.38%  | 0.107% |
| 69 | 10.295 | 1351 | 1353 | 1358 | rVB3 | 79881   | 90064   | 2.26%  | 0.175% |
| 70 | 10.378 | 1364 | 1367 | 1369 | rBV3 | 64858   | 80007   | 2.01%  | 0.156% |
| 71 | 10.478 | 1380 | 1384 | 1386 | rVB  | 243354  | 212875  | 5.34%  | 0.415% |

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Instrument :  
 BNA\_F  
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 HR-05-080818-B

Integration Parameters: rteint.p  
 Integrator: RTE  
 Smoothing : ON Filtering: 5  
 Sampling : 1 Min Area: 3 % of largest Peak  
 Start Thrs: 0.2 Max Peaks: 100  
 Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >  
 Peak separation: 5

Method : Z:\SVOASRV\HPCHEM1\BNA\_F\METHODS\8270-BF080818.M  
 Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

|    |        |      |      |      |      |         |         |        |        |
|----|--------|------|------|------|------|---------|---------|--------|--------|
| 72 | 10.583 | 1399 | 1402 | 1404 | rBV  | 100428  | 95209   | 2.39%  | 0.185% |
| 73 | 10.695 | 1417 | 1421 | 1424 | rBV  | 163352  | 172093  | 4.31%  | 0.335% |
| 74 | 10.854 | 1444 | 1448 | 1454 | rBV  | 1877489 | 1685403 | 42.25% | 3.283% |
| 75 | 10.966 | 1462 | 1467 | 1470 | rBV  | 241160  | 329992  | 8.27%  | 0.643% |
| 76 | 11.401 | 1538 | 1541 | 1543 | rBV  | 101937  | 80517   | 2.02%  | 0.157% |
| 77 | 11.430 | 1543 | 1546 | 1553 | rVB3 | 109022  | 145364  | 3.64%  | 0.283% |
| 78 | 11.560 | 1564 | 1568 | 1571 | rBV  | 2356292 | 2047573 | 51.33% | 3.988% |
| 79 | 11.613 | 1575 | 1577 | 1579 | rVB  | 70500   | 53650   | 1.34%  | 0.104% |
| 80 | 11.830 | 1611 | 1614 | 1617 | rBV  | 96189   | 71260   | 1.79%  | 0.139% |
| 81 | 12.060 | 1650 | 1653 | 1656 | rBV2 | 123819  | 128634  | 3.22%  | 0.251% |
| 82 | 12.242 | 1681 | 1684 | 1686 | rBV  | 71305   | 59798   | 1.50%  | 0.116% |
| 83 | 12.630 | 1744 | 1750 | 1755 | rBV4 | 119024  | 230121  | 5.77%  | 0.448% |
| 84 | 12.777 | 1772 | 1775 | 1778 | rBV  | 138852  | 127238  | 3.19%  | 0.248% |
| 85 | 13.007 | 1809 | 1814 | 1821 | rBV3 | 210606  | 341126  | 8.55%  | 0.664% |
| 86 | 13.148 | 1834 | 1838 | 1841 | rBV  | 3342232 | 2822240 | 70.75% | 5.497% |
| 87 | 13.360 | 1872 | 1874 | 1877 | rVB  | 94362   | 83679   | 2.10%  | 0.163% |
| 88 | 13.707 | 1931 | 1933 | 1935 | rBV  | 100962  | 77362   | 1.94%  | 0.151% |
| 89 | 14.036 | 1986 | 1989 | 1996 | rBV  | 276282  | 320381  | 8.03%  | 0.624% |
| 90 | 14.213 | 2015 | 2019 | 2023 | rBV  | 1989050 | 1948622 | 48.85% | 3.795% |
| 91 | 14.354 | 2041 | 2043 | 2046 | rVB2 | 153086  | 111406  | 2.79%  | 0.217% |
| 92 | 15.783 | 2281 | 2286 | 2293 | rVB  | 1126161 | 1602047 | 40.16% | 3.120% |

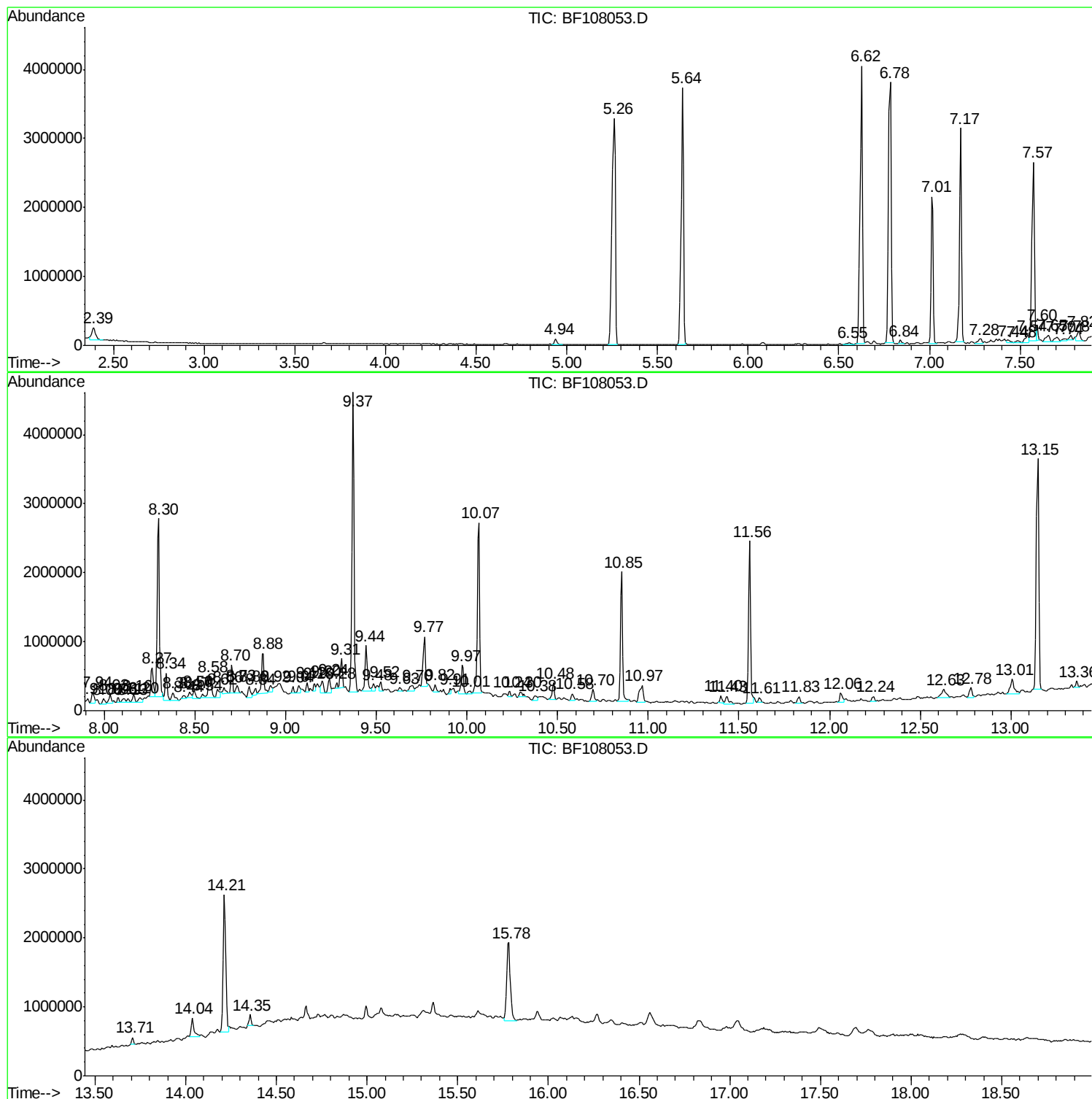
Sum of corrected areas: 51342310

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Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF080818.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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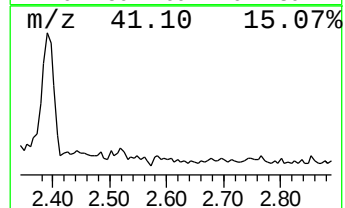
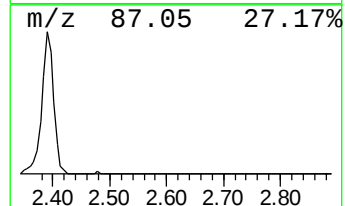
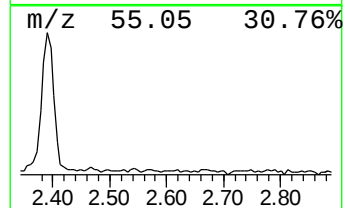
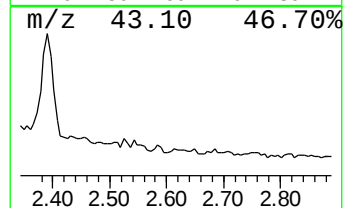
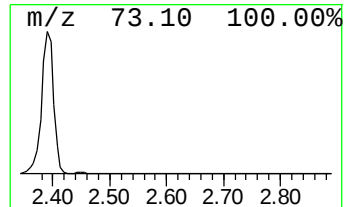
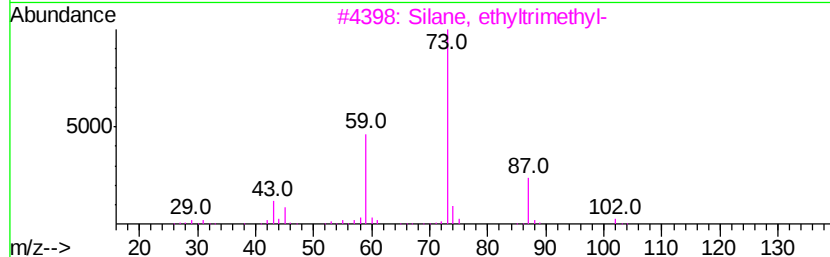
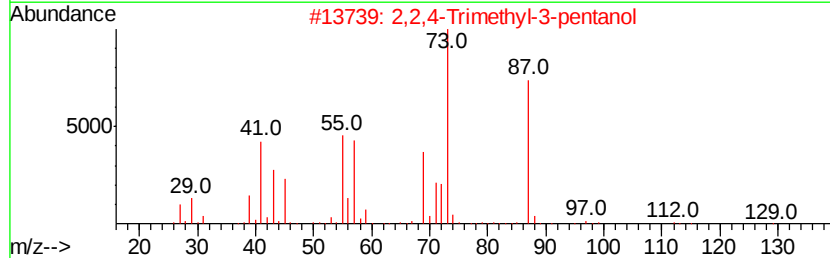
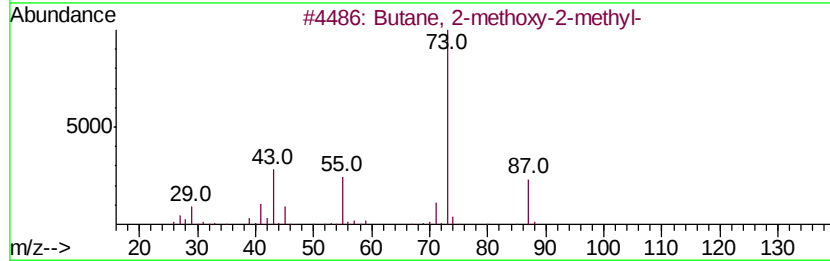
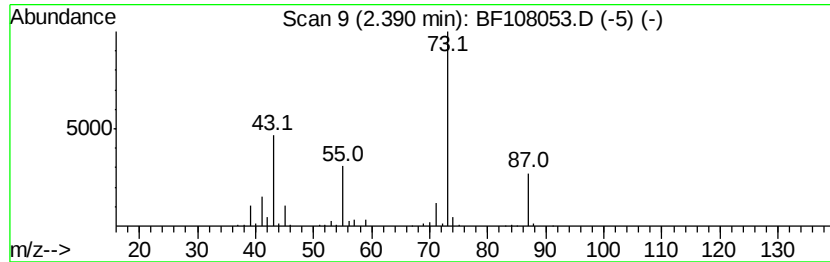
Instrument :  
BNA\_F  
ClientSampleId :  
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Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF080818.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

\*\*\*\*\*  
Peak Number 1 Butane, 2-methoxy-2-methyl- Concentration Rank 11

| R.T.    | EstConc | Area                        | Relative to ISTD       | R.T.    |             |      |
|---------|---------|-----------------------------|------------------------|---------|-------------|------|
| 2.39    | 2.76 ng | 260332                      | 1,4-Dichlorobenzene-d4 | 7.01    |             |      |
| Hit# of | 5       | Tentative ID                | MW                     | MolForm | CAS#        | Qual |
| 1       |         | Butane, 2-methoxy-2-methyl- | 102                    | C6H14O  | 000994-05-8 | 83   |
| 2       |         | 2,2,4-Trimethyl-3-pentanol  | 130                    | C8H18O  | 005162-48-1 | 40   |
| 3       |         | Silane, ethyltrimethyl-     | 102                    | C5H14Si | 003439-38-1 | 36   |
| 4       |         | 1,3-Dioxolane, 2-methyl-    | 88                     | C4H8O2  | 000497-26-7 | 32   |
| 5       |         | 2-Methyl-5-hexen-3-ol       | 114                    | C7H14O  | 032815-70-6 | 32   |



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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

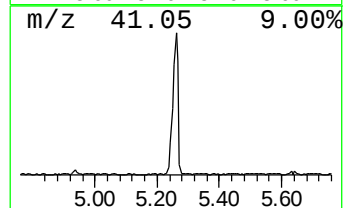
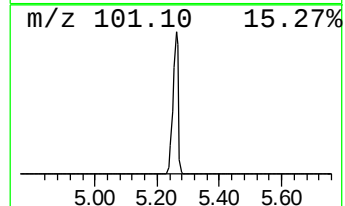
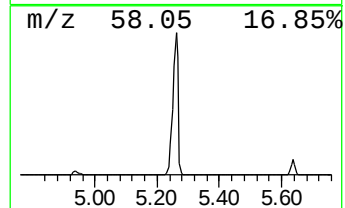
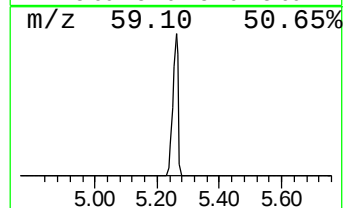
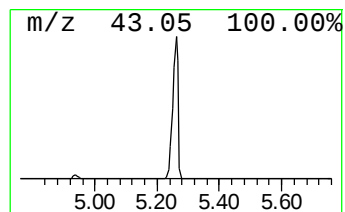
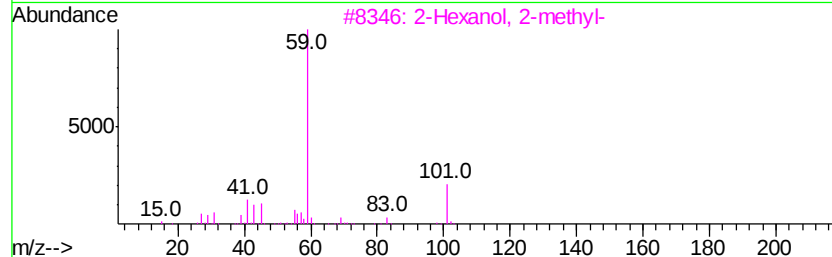
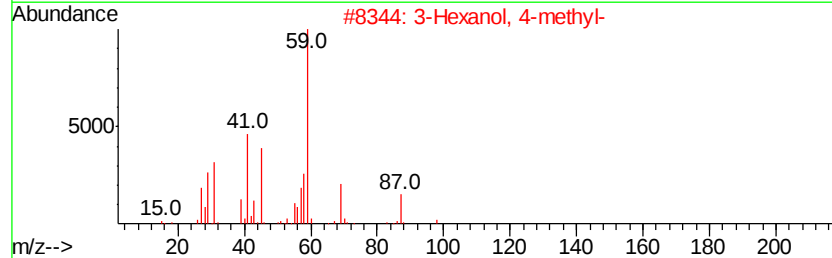
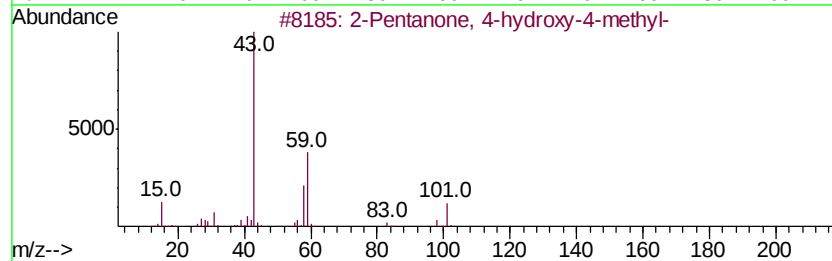
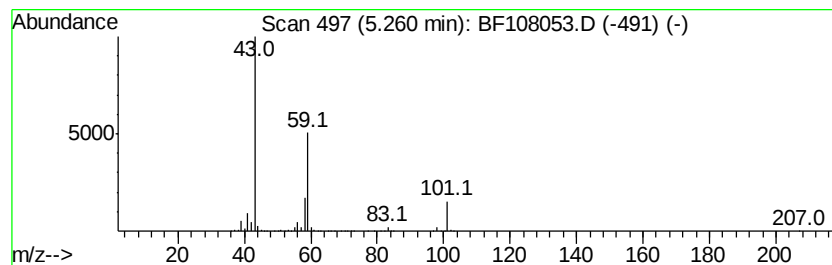
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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

| R.T. | EstConc  | Area    | Relative to ISTD       | R.T. |
|------|----------|---------|------------------------|------|
| 5.26 | 42.34 ng | 3989010 | 1,4-Dichlorobenzene-d4 | 7.01 |

| 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    |    | 2-Hexanol, 2-methyl-                 | 116 | C7H16O   | 000625-23-0 | 28   |
| 4    |    | Acetic acid, cyano-, 1,1-dimethyl... | 141 | C7H11NO2 | 001116-98-9 | 25   |
| 5    |    | 1-Propen-2-ol, acetate               | 100 | C5H8O2   | 000108-22-5 | 10   |



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Acq On : 9 Aug 2018 15:34  
Operator : JU/SJ  
Sample : J4271-03 2X  
Misc :  
ALS Vial : 15 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
HR-05-080818-B

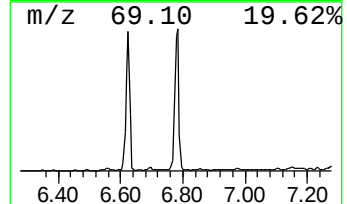
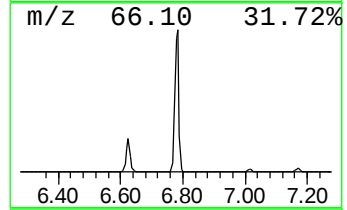
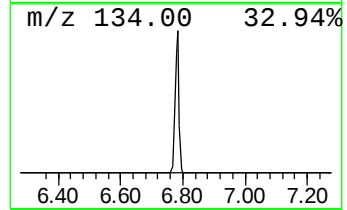
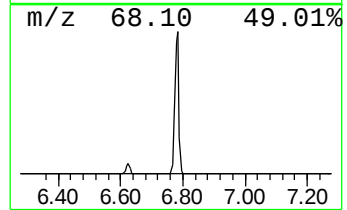
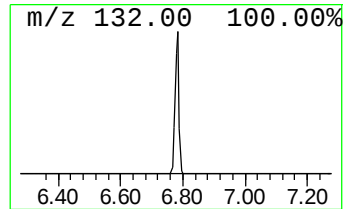
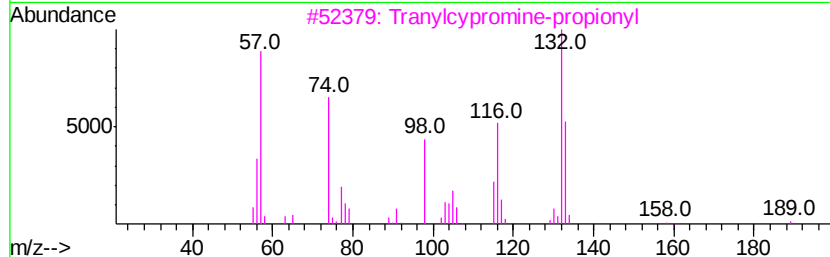
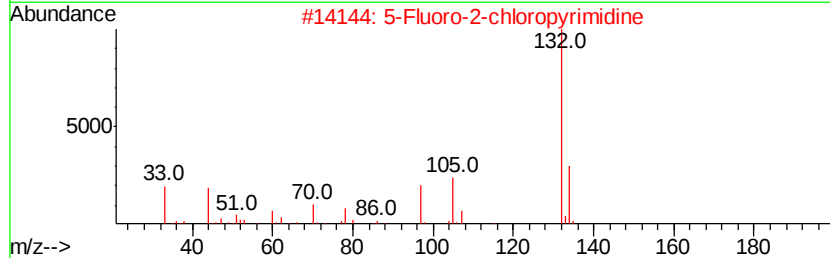
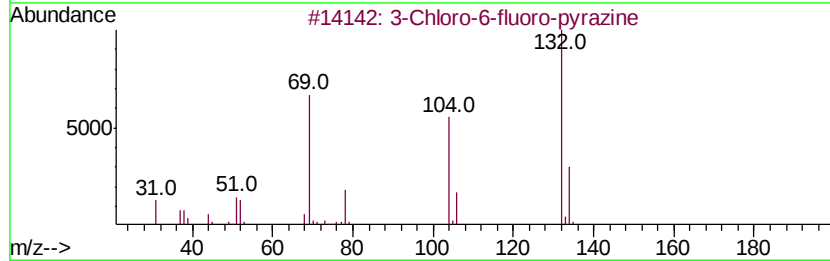
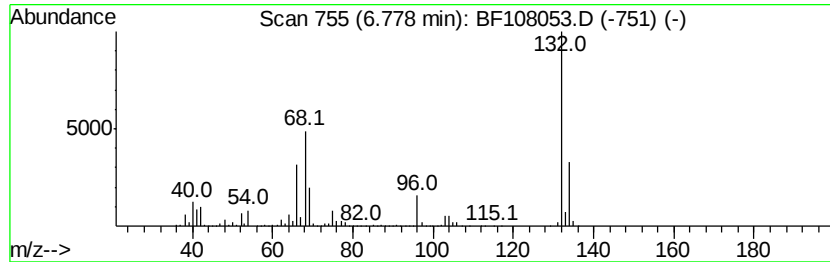
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

\*\*\*\*\*  
Peak Number 3 unknown6.78 Concentration Rank 2

| R.T. | EstConc  | Area    | Relative to ISTD       | R.T. |
|------|----------|---------|------------------------|------|
| 6.78 | 36.74 ng | 3461930 | 1,4-Dichlorobenzene-d4 | 7.01 |

| Hit# | of                                  | Tentative ID | MW        | MolForm      | CAS# | Qual |
|------|-------------------------------------|--------------|-----------|--------------|------|------|
| 1    | 3-Chloro-6-fluoro-pyrazine          | 132          | C4H2ClFN2 | 1000146-10-7 | 35   |      |
| 2    | 5-Fluoro-2-chloropyrimidine         | 132          | C4H2ClFN2 | 062802-42-0  | 16   |      |
| 3    | Tranvlcypropine-propionyl           | 189          | C12H15NO  | 1000123-86-3 | 10   |      |
| 4    | 1,3,5-Trifluorobenzene              | 132          | C6H3F3    | 000372-38-3  | 9    |      |
| 5    | Bicyclo[4.2.0]octa-1,3,5-triene,... | 132          | C10H12    | 028749-81-7  | 9    |      |



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF080918\  
Data File : BF108053.D  
Acq On : 9 Aug 2018 15:34  
Operator : JU/SJ  
Sample : J4271-03 2X  
Misc :  
ALS Vial : 15 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
HR-05-080818-B

Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF080818.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

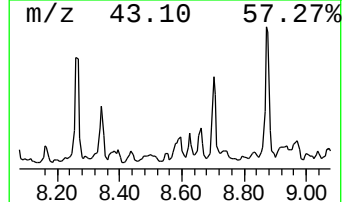
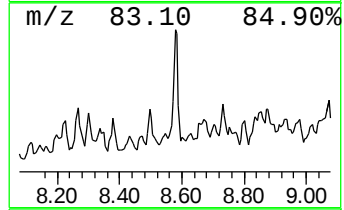
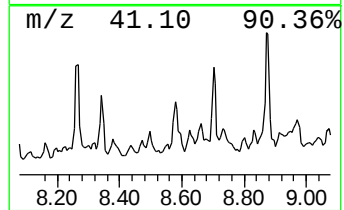
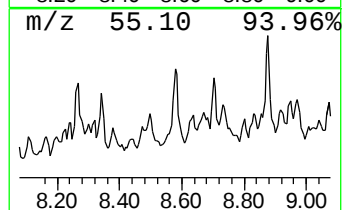
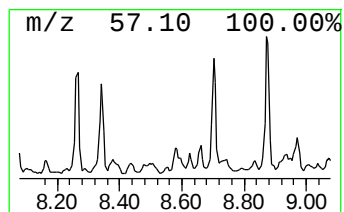
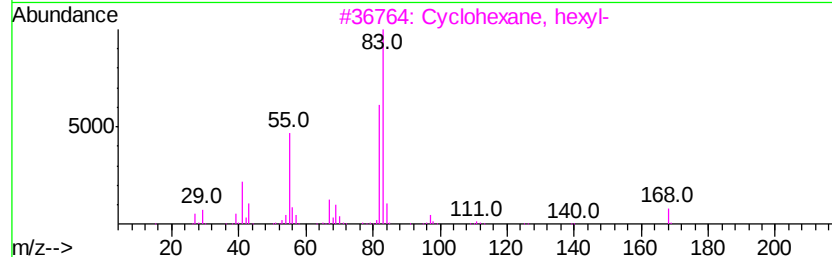
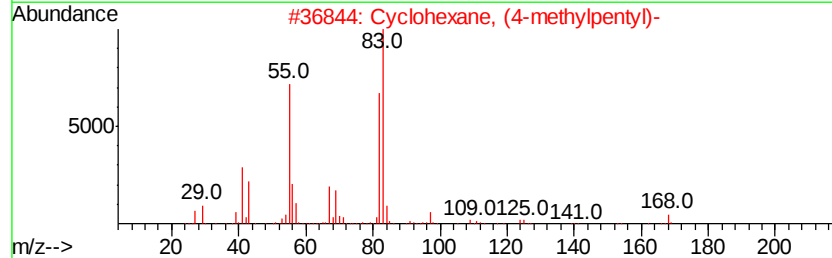
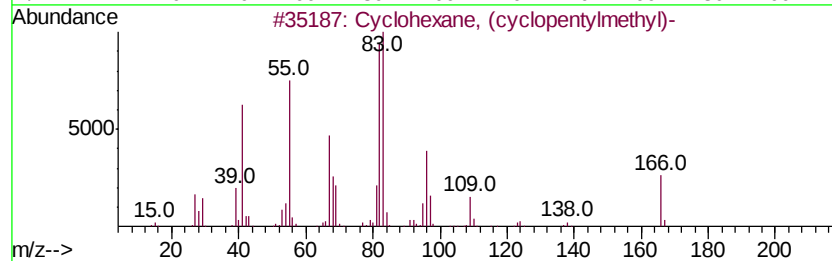
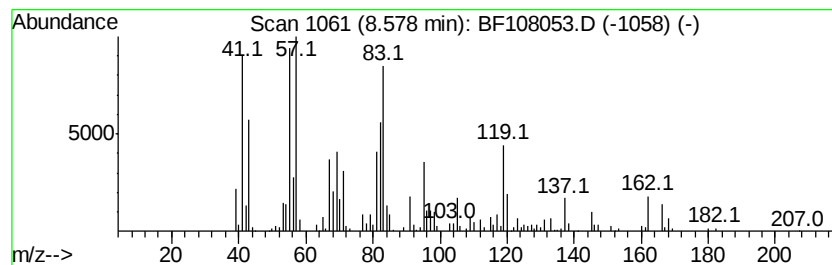
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TIC Integration Parameters: LSCINT.P

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Peak Number 5 Cyclohexane, (cyclopentylme... Concentration Rank 9

| R.T. | EstConc | Area   | Relative to ISTD | R.T. |
|------|---------|--------|------------------|------|
| 8.58 | 3.27 ng | 389360 | Napthalene-d8    | 8.30 |

| Hit# of | 5 | Tentative ID                      | MW  | MolForm | CAS#        | Qual |
|---------|---|-----------------------------------|-----|---------|-------------|------|
| 1       |   | Cyclohexane, (cvclopentvlmethyl)- | 166 | C12H22  | 004431-89-4 | 50   |
| 2       |   | Cyclohexane, (4-methylpentyl)-    | 168 | C12H24  | 061142-20-9 | 38   |
| 3       |   | Cyclohexane, hexyl-               | 168 | C12H24  | 004292-75-5 | 38   |
| 4       |   | Cyclohexane, (1-methylpropyl)-    | 140 | C10H20  | 007058-01-7 | 35   |
| 5       |   | Cyclohexane, methyl-              | 98  | C7H14   | 000108-87-2 | 27   |



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF080918\  
Data File : BF108053.D  
Acq On : 9 Aug 2018 15:34  
Operator : JU/SJ  
Sample : J4271-03 2X  
Misc :  
ALS Vial : 15 Sample Multiplier: 1

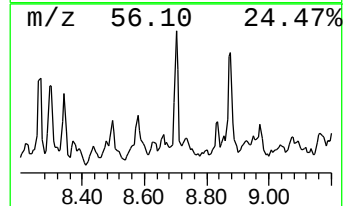
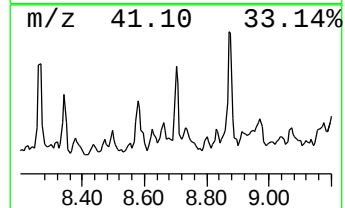
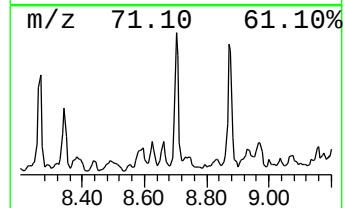
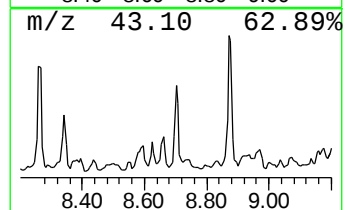
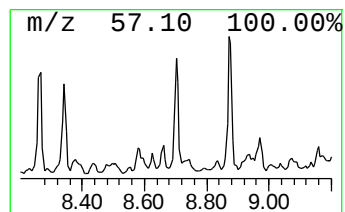
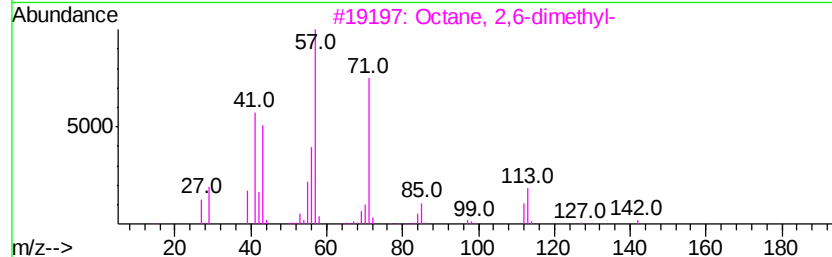
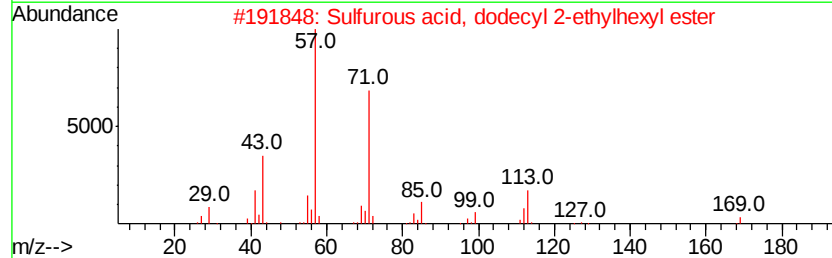
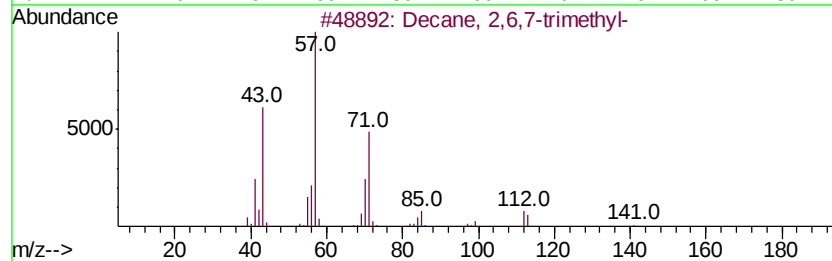
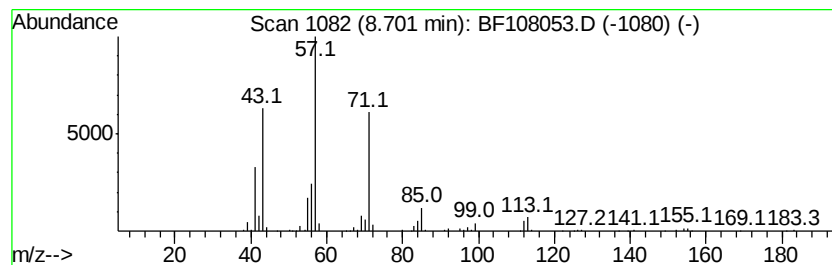
Instrument :  
BNA\_F  
ClientSampleId :  
HR-05-080818-B

Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF080818.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, 2,6,7-trimethyl- Concentration Rank 12

| R.T.    | EstConc                             | Area         | Relative to ISTD | R.T.         |      |      |
|---------|-------------------------------------|--------------|------------------|--------------|------|------|
| 8.70    | 2.67 ng                             | 316856       | Napthalene-d8    | 8.30         |      |      |
| Hit# of | 5                                   | Tentative ID | MW               | MolForm      | CAS# | Qual |
| 1       | Decane, 2,6,7-trimethyl-            | 184          | C13H28           | 062108-25-2  | 78   |      |
| 2       | Sulfurous acid, dodecyl 2-ethylh... | 362          | C20H42O3S        | 1000309-19-5 | 72   |      |
| 3       | Octane, 2,6-dimethyl-               | 142          | C10H22           | 002051-30-1  | 64   |      |
| 4       | Sulfurous acid, 2-ethylhexyl und... | 348          | C19H40O3S        | 1000309-19-4 | 64   |      |
| 5       | Dodecane, 4,6-dimethyl-             | 198          | C14H30           | 061141-72-8  | 53   |      |



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF080918\  
Data File : BF108053.D  
Acq On : 9 Aug 2018 15:34  
Operator : JU/SJ  
Sample : J4271-03 2X  
Misc :  
ALS Vial : 15 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
HR-05-080818-B

Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF080818.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

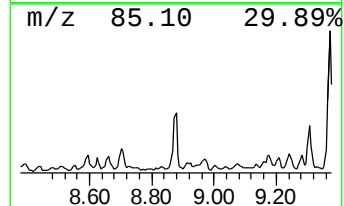
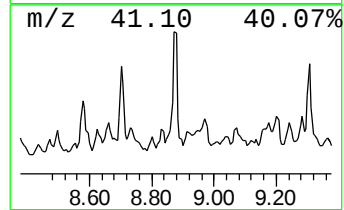
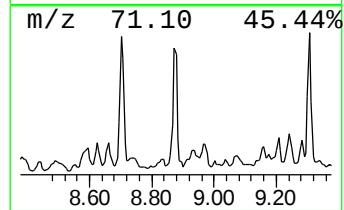
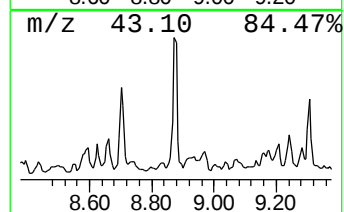
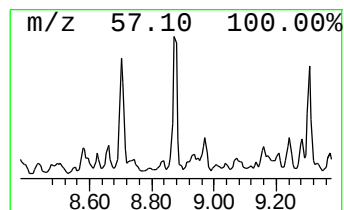
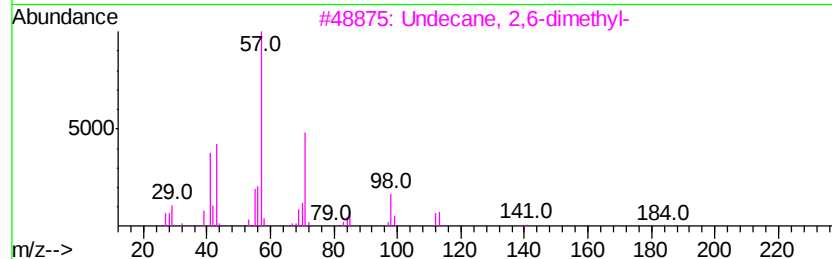
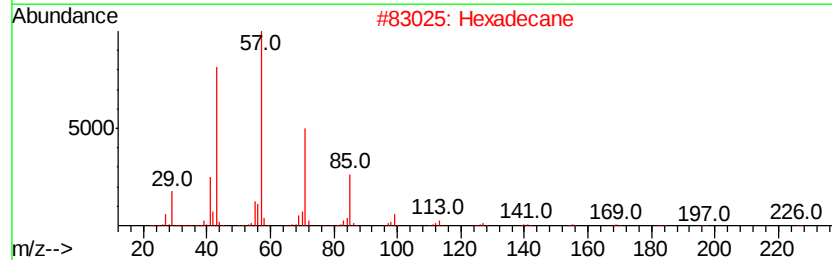
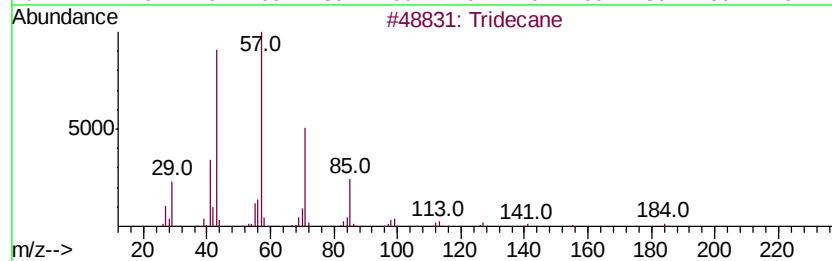
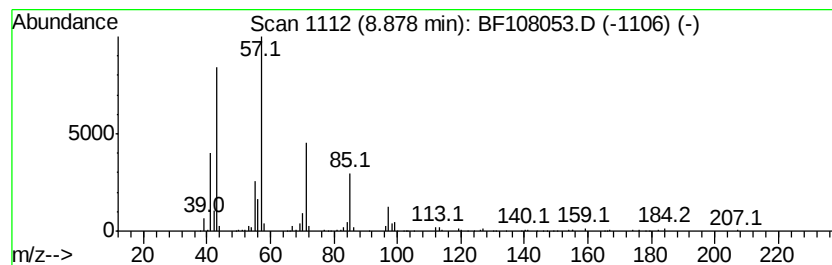
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 7 Tridecane Concentration Rank 5

| R.T. | EstConc | Area   | Relative to ISTD | R.T. |
|------|---------|--------|------------------|------|
| 8.88 | 5.20 ng | 618019 | Naphthalene-d8   | 8.30 |

| Hit# of | 5                       | Tentative ID | MW  | MolForm | CAS#        | Qual |
|---------|-------------------------|--------------|-----|---------|-------------|------|
| 1       | Tridecane               |              | 184 | C13H28  | 000629-50-5 | 91   |
| 2       | Hexadecane              |              | 226 | C16H34  | 000544-76-3 | 86   |
| 3       | Undecane, 2,6-dimethyl- |              | 184 | C13H28  | 017301-23-4 | 68   |
| 4       | Dodecane                |              | 170 | C12H26  | 000112-40-3 | 64   |
| 5       | Undecane, 2,3-dimethyl- |              | 184 | C13H28  | 017312-77-5 | 64   |



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF080918\  
Data File : BF108053.D  
Acq On : 9 Aug 2018 15:34  
Operator : JU/SJ  
Sample : J4271-03 2X  
Misc :  
ALS Vial : 15 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
HR-05-080818-B

Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF080818.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

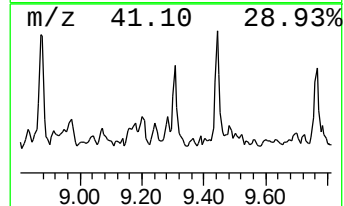
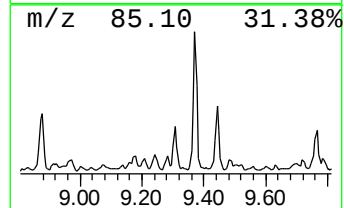
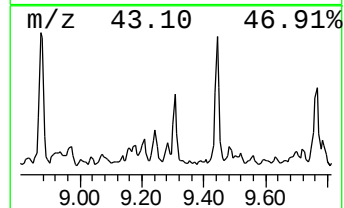
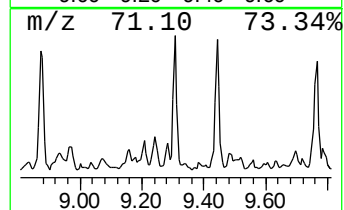
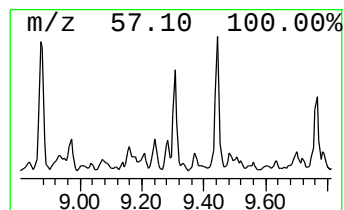
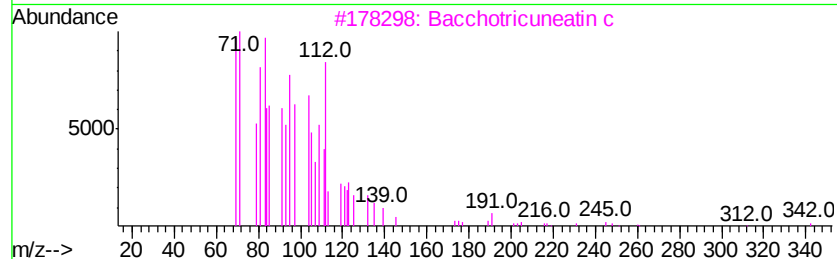
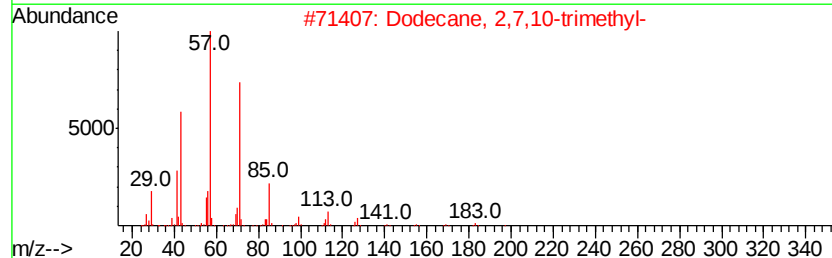
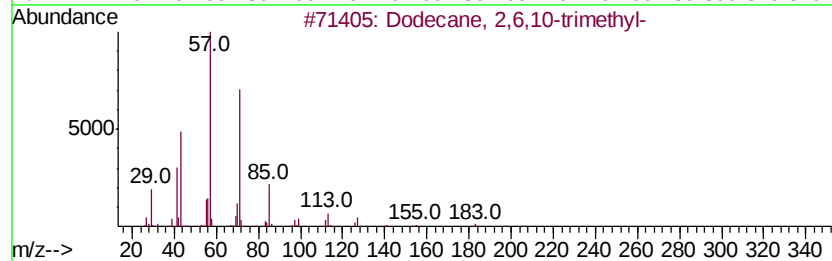
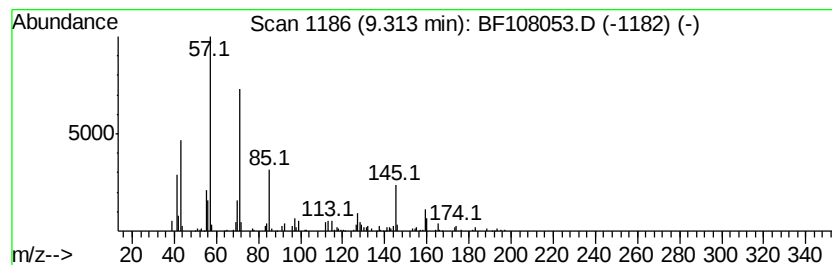
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 8 Dodecane, 2,6,10-trimethyl- Concentration Rank 13

| R.T. | EstConc | Area   | Relative to ISTD | R.T.  |
|------|---------|--------|------------------|-------|
| 9.31 | 2.58 ng | 300788 | Acenaphthene-d10 | 10.07 |

| Hit# | of | 5 | Tentative ID                | MW  | MolForm     | CAS#        | Qual |
|------|----|---|-----------------------------|-----|-------------|-------------|------|
| 1    |    |   | Dodecane, 2,6,10-trimethyl- | 212 | C15H32      | 003891-98-3 | 72   |
| 2    |    |   | Dodecane, 2,7,10-trimethyl- | 212 | C15H32      | 074645-98-0 | 64   |
| 3    |    |   | Bacchotricuneatin c         | 342 | C20H22O5    | 066563-30-2 | 58   |
| 4    |    |   | Nonane, 5-butyl-            | 184 | C13H28      | 017312-63-9 | 53   |
| 5    |    |   | Silane, trichlorodocosyl-   | 442 | C22H45Cl3Si | 007325-84-0 | 53   |



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF080918\  
Data File : BF108053.D  
Acq On : 9 Aug 2018 15:34  
Operator : JU/SJ  
Sample : J4271-03 2X  
Misc :  
ALS Vial : 15 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
HR-05-080818-B

Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF080818.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

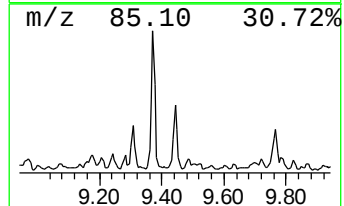
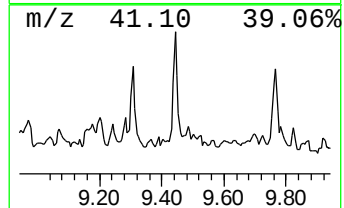
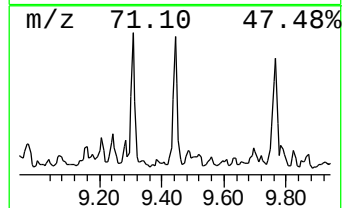
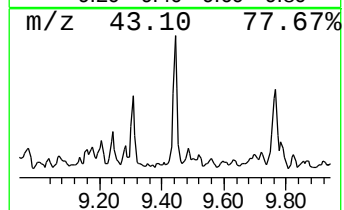
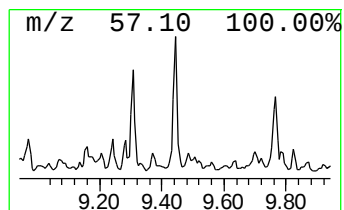
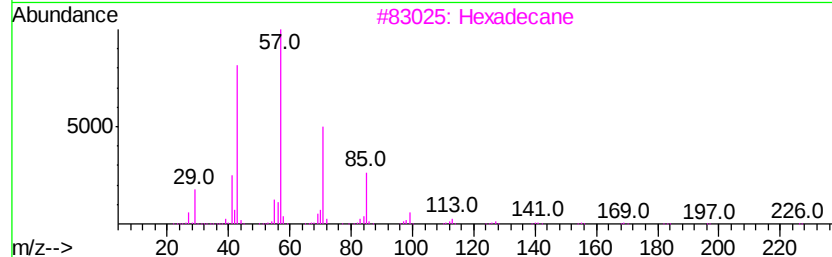
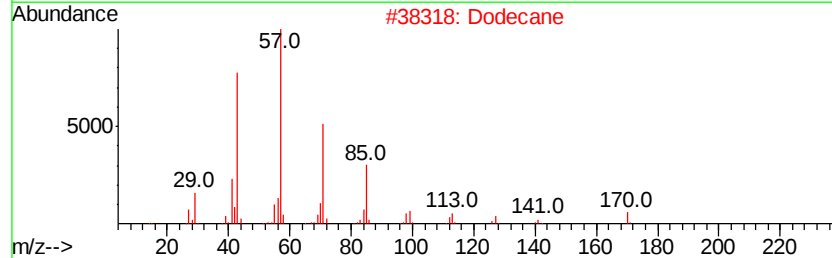
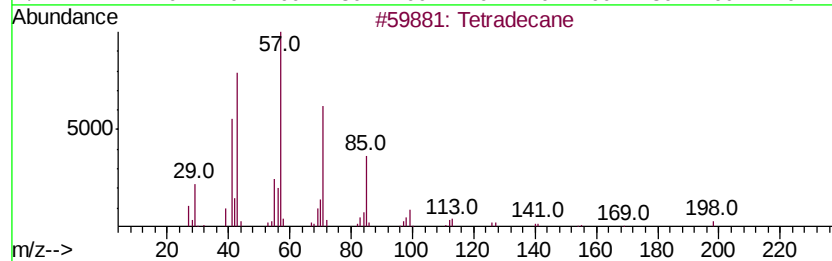
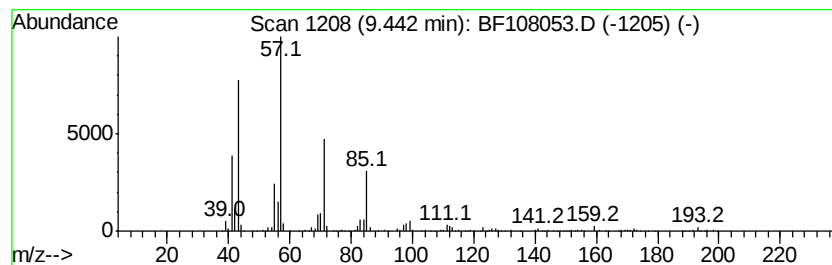
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 9 Tetradecane Concentration Rank 4

| R.T. | EstConc | Area   | Relative to ISTD | R.T.  |
|------|---------|--------|------------------|-------|
| 9.44 | 5.75 ng | 671831 | Acenaphthene-d10 | 10.07 |

| Hit# | of | Tentative ID             | MW  | MolForm | CAS#        | Qual |
|------|----|--------------------------|-----|---------|-------------|------|
| 1    | 5  | Tetradecane              | 198 | C14H30  | 000629-59-4 | 93   |
| 2    |    | Dodecane                 | 170 | C12H26  | 000112-40-3 | 90   |
| 3    |    | Hexadecane               | 226 | C16H34  | 000544-76-3 | 90   |
| 4    |    | Tridecane, 6-methyl-     | 198 | C14H30  | 013287-21-3 | 87   |
| 5    |    | Decane, 2,3,5-trimethyl- | 184 | C13H28  | 062238-11-3 | 86   |



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF080918\  
Data File : BF108053.D  
Acq On : 9 Aug 2018 15:34  
Operator : JU/SJ  
Sample : J4271-03 2X  
Misc :  
ALS Vial : 15 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
HR-05-080818-B

Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF080818.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

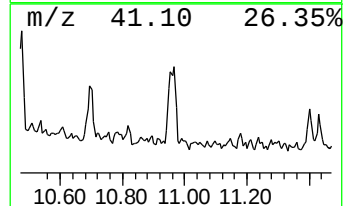
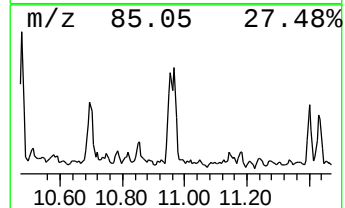
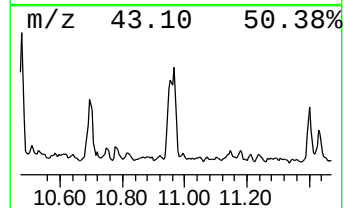
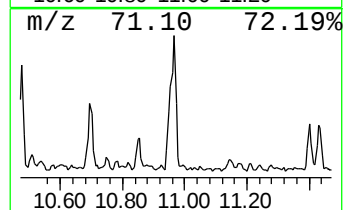
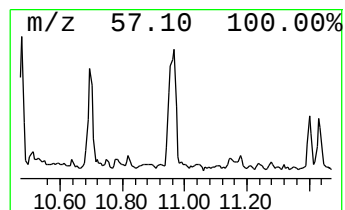
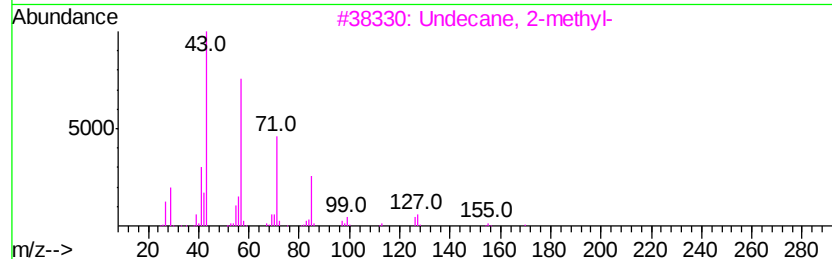
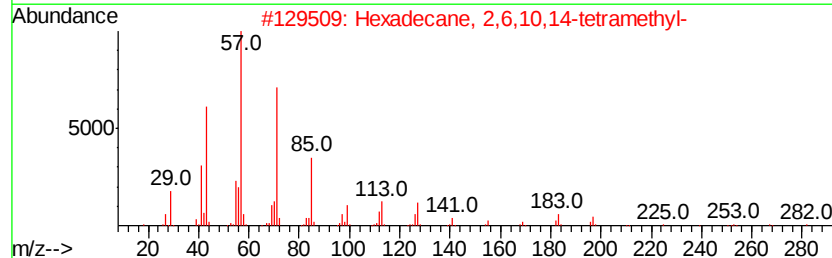
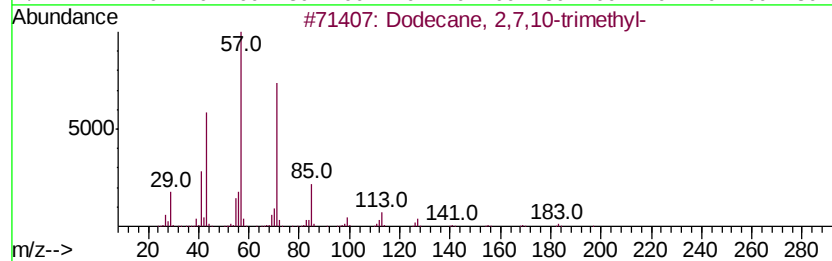
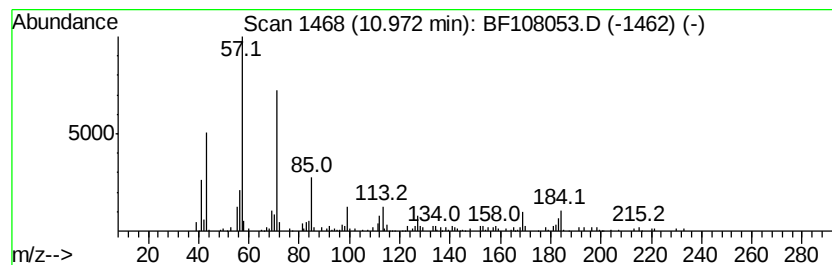
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 11 Dodecane, 2,7,10-trimethyl- Concentration Rank 10

| R.T.  | EstConc | Area   | Relative to ISTD | R.T.  |
|-------|---------|--------|------------------|-------|
| 10.97 | 3.22 ng | 329992 | Phenanthrene-d10 | 11.56 |

| Hit# | of | Tentative ID                       | MW  | MolForm | CAS#        | Qual |
|------|----|------------------------------------|-----|---------|-------------|------|
| 1    | 5  | Dodecane, 2,7,10-trimethyl-        | 212 | C15H32  | 074645-98-0 | 91   |
| 2    |    | Hexadecane, 2,6,10,14-tetramethyl- | 282 | C20H42  | 000638-36-8 | 90   |
| 3    |    | Undecane, 2-methyl-                | 170 | C12H26  | 007045-71-8 | 87   |
| 4    |    | Decane, 2-methyl-                  | 156 | C11H24  | 006975-98-0 | 83   |
| 5    |    | Tridecane                          | 184 | C13H28  | 000629-50-5 | 80   |



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF080918\  
Data File : BF108053.D  
Acq On : 9 Aug 2018 15:34  
Operator : JU/SJ  
Sample : J4271-03 2X  
Misc :  
ALS Vial : 15 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
HR-05-080818-B

Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF080818.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

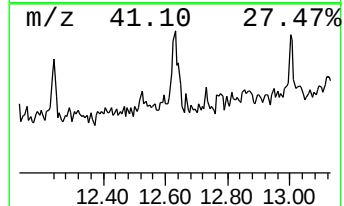
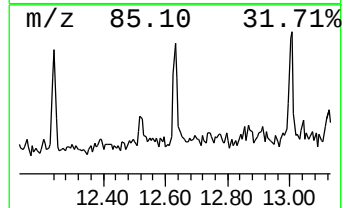
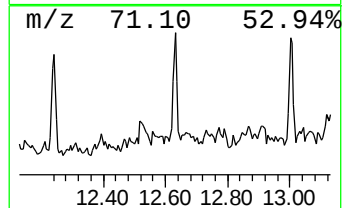
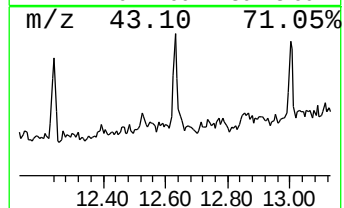
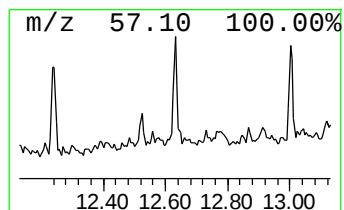
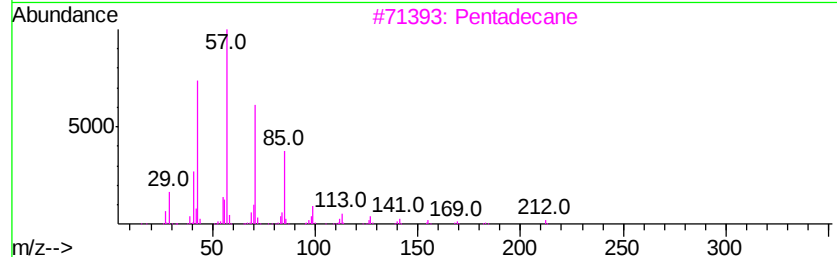
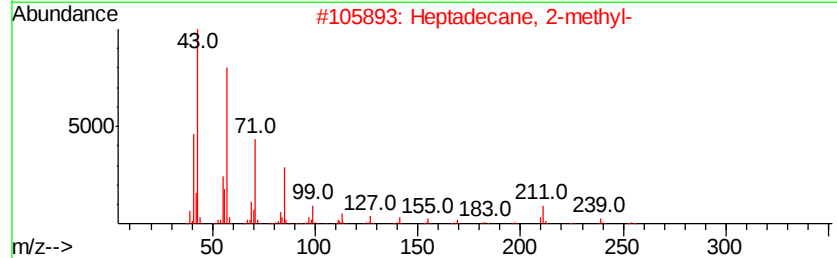
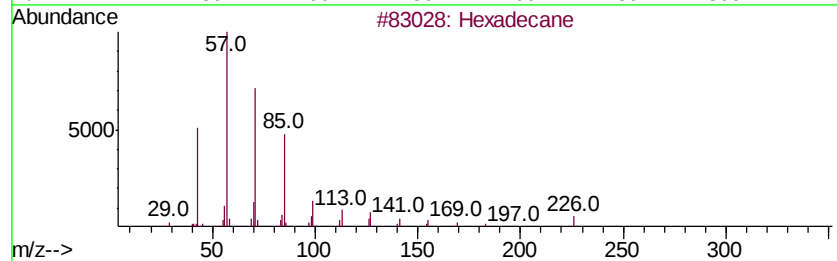
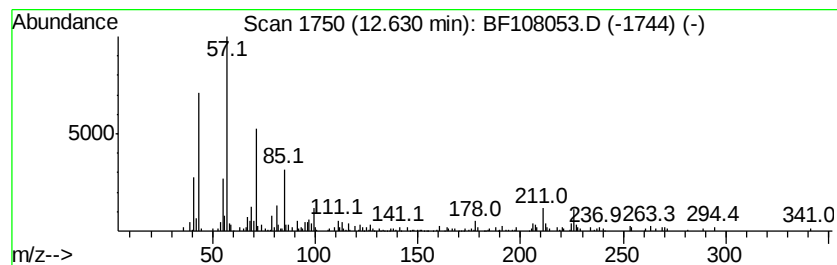
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 12 Hexadecane Concentration Rank 14

| R.T.  | EstConc | Area   | Relative to ISTD | R.T.  |
|-------|---------|--------|------------------|-------|
| 12.63 | 2.25 ng | 230121 | Phenanthrene-d10 | 11.56 |

| Hit# | of | Tentative ID           | MW  | MolForm | CAS#        | Qual |
|------|----|------------------------|-----|---------|-------------|------|
| 1    | 5  | Hexadecane             | 226 | C16H34  | 000544-76-3 | 74   |
| 2    |    | Heptadecane, 2-methyl- | 254 | C18H38  | 001560-89-0 | 72   |
| 3    |    | Pentadecane            | 212 | C15H32  | 000629-62-9 | 68   |
| 4    |    | Heptacosane            | 380 | C27H56  | 000593-49-7 | 58   |
| 5    |    | Octadecane             | 254 | C18H38  | 000593-45-3 | 58   |



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF080918\  
Data File : BF108053.D  
Acq On : 9 Aug 2018 15:34  
Operator : JU/SJ  
Sample : J4271-03 2X  
Misc :  
ALS Vial : 15 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
HR-05-080818-B

Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF080818.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

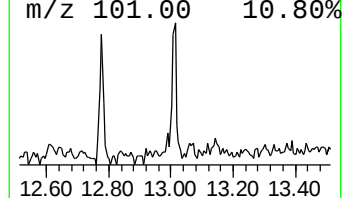
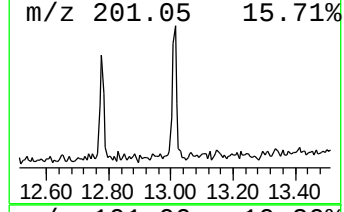
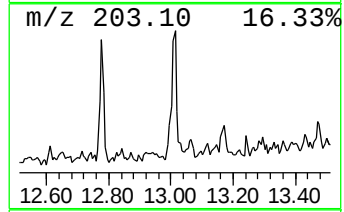
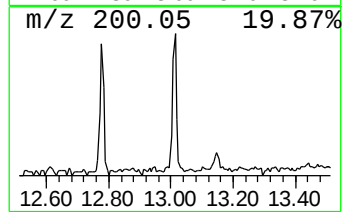
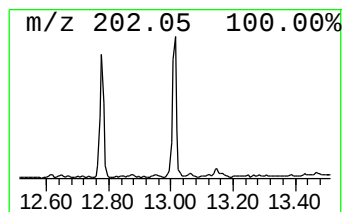
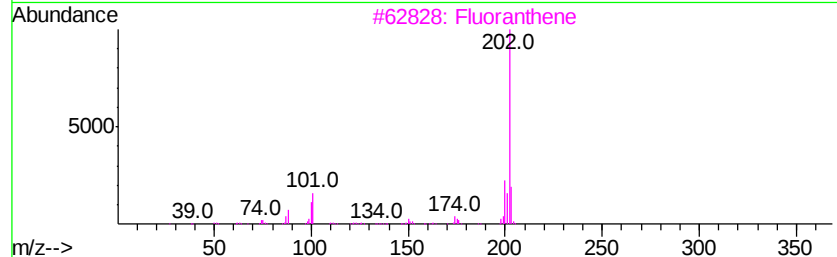
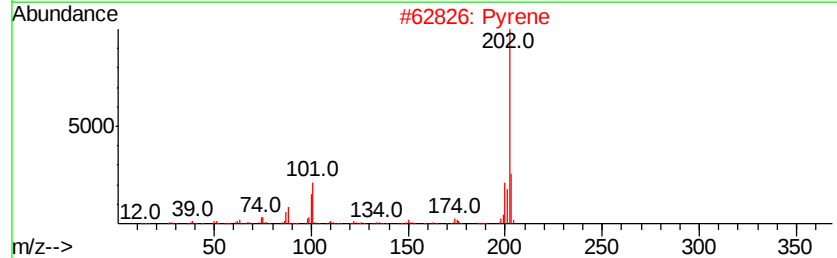
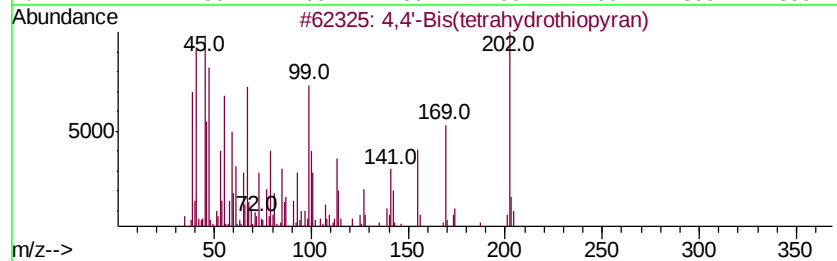
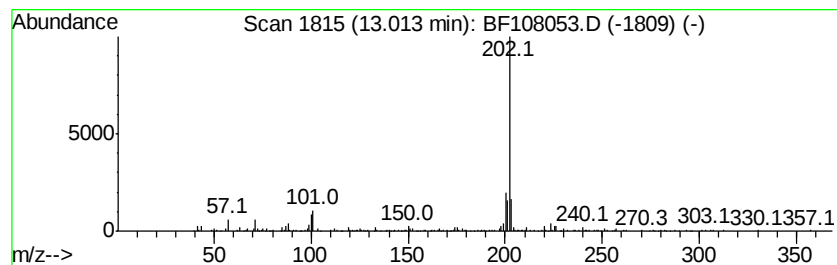
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 13 4,4'-Bis(tetrahydrothiopyran) Concentration Rank 6

| R.T.  | EstConc | Area   | Relative to ISTD | R.T.  |
|-------|---------|--------|------------------|-------|
| 13.01 | 3.50 ng | 341126 | Chrysene-d12     | 14.21 |

| Hit# | of | Tentative ID                        | MW  | MolForm  | CAS#         | Qual |
|------|----|-------------------------------------|-----|----------|--------------|------|
| 1    | 5  | 4,4'-Bis(tetrahydrothiopyran)       | 202 | C10H18S2 | 116196-83-9  | 96   |
| 2    |    | Pyrene                              | 202 | C16H10   | 000129-00-0  | 93   |
| 3    |    | Fluoranthene                        | 202 | C16H10   | 000206-44-0  | 89   |
| 4    |    | 1-Benzyl-2-methyl-6-nonylpiperid... | 329 | C22H35NO | 1000367-24-2 | 43   |
| 5    |    | 1,4-Pentadiyn-3-one, 1,5-diphenyl-  | 230 | C17H10O  | 015814-30-9  | 42   |



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF080918\  
Data File : BF108053.D  
Acq On : 9 Aug 2018 15:34  
Operator : JU/SJ  
Sample : J4271-03 2X  
Misc :  
ALS Vial : 15 Sample Multiplier: 1

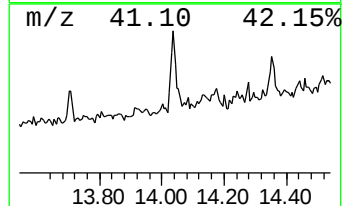
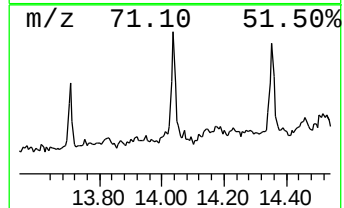
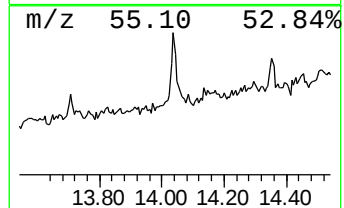
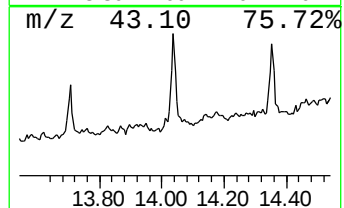
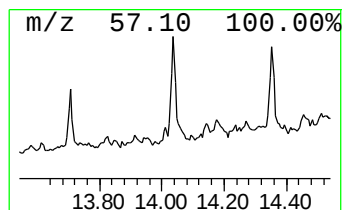
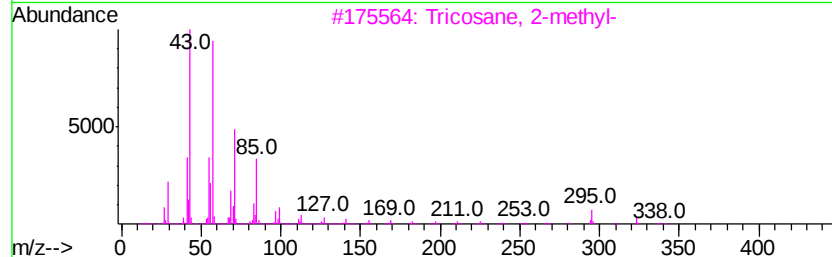
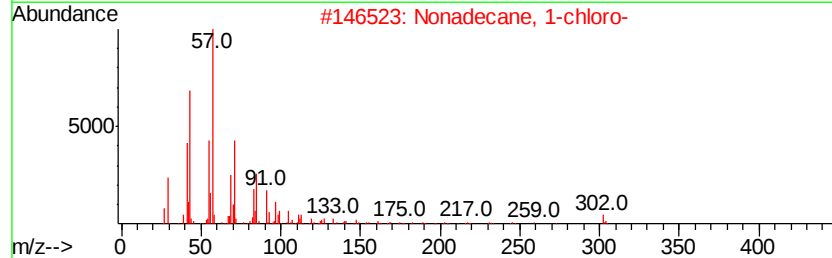
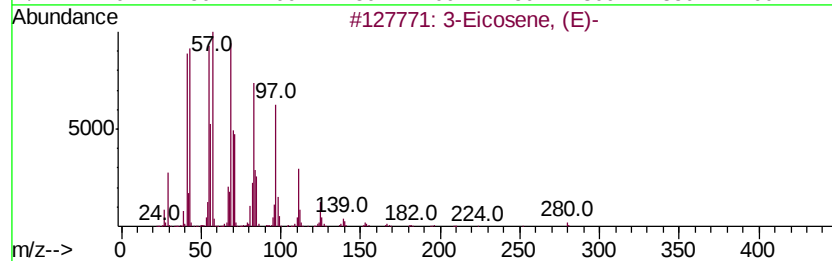
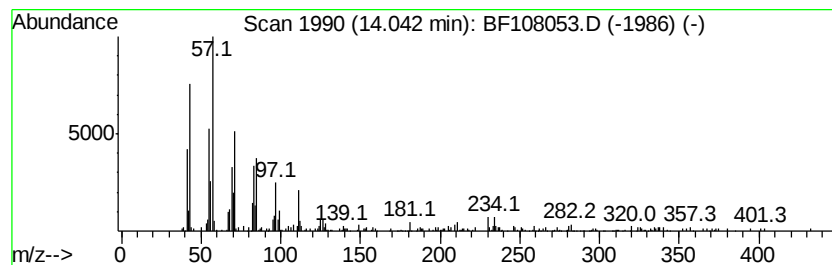
Instrument :  
BNA\_F  
ClientSampleId :  
HR-05-080818-B

Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF080818.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 3-Eicosene, (E)- Concentration Rank 8

| R.T.      | EstConc               | Area   | Relative to ISTD | R.T.        |      |
|-----------|-----------------------|--------|------------------|-------------|------|
| 14.04     | 3.29 ng               | 320381 | Chrysene-d12     | 14.21       |      |
| Hit# of 5 | Tentative ID          | MW     | MolForm          | CAS#        | Qual |
| 1         | 3-Eicosene, (E)-      | 280    | C20H40           | 074685-33-9 | 90   |
| 2         | Nonadecane, 1-chloro- | 302    | C19H39Cl         | 062016-76-6 | 90   |
| 3         | Tricosane, 2-methyl-  | 338    | C24H50           | 001928-30-9 | 68   |
| 4         | Tetradecane           | 198    | C14H30           | 000629-59-4 | 60   |
| 5         | Tridecane, 2-methyl-  | 198    | C14H30           | 001560-96-9 | 58   |



Data Path : Z:\SVOASRV\HPCHEM1\BNA\_F\DATA\BF080918\  
Data File : BF108053.D  
Acq On : 9 Aug 2018 15:34  
Operator : JU/SJ  
Sample : J4271-03 2X  
Misc :  
ALS Vial : 15 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
HR-05-080818-B

Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_F\METHODS\8270-BF080818.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 |
| Butane, 2-methoxy... | 2.39  | 2.8     | ng    | 260332   | 1                     | 7.01  | 1884490 | 20.0 |
| 2-Pentanone, 4-hy... | 5.26  | 42.3    | ng    | 3989010  | 1                     | 7.01  | 1884490 | 20.0 |
| unknown6.78          | 6.78  | 36.7    | ng    | 3461930  | 1                     | 7.01  | 1884490 | 20.0 |
| Cyclohexane, (cyc... | 8.58  | 3.3     | ng    | 389360   | 2                     | 8.30  | 2377800 | 20.0 |
| Decane, 2,6,7-tri... | 8.70  | 2.7     | ng    | 316856   | 2                     | 8.30  | 2377800 | 20.0 |
| Tridecane            | 8.88  | 5.2     | ng    | 618019   | 2                     | 8.30  | 2377800 | 20.0 |
| Dodecane, 2,6,10-... | 9.31  | 2.6     | ng    | 300788   | 3                     | 10.07 | 2336070 | 20.0 |
| Tetradecane          | 9.44  | 5.8     | ng    | 671831   | 3                     | 10.07 | 2336070 | 20.0 |
| Dodecane, 2,7,10-... | 10.97 | 3.2     | ng    | 329992   | 4                     | 11.56 | 2047570 | 20.0 |
| Hexadecane           | 12.63 | 2.3     | ng    | 230121   | 4                     | 11.56 | 2047570 | 20.0 |
| 4,4'-Bis(tetrahyd... | 13.01 | 3.5     | ng    | 341126   | 5                     | 14.21 | 1948620 | 20.0 |
| 3-Eicosene, (E)-     | 14.04 | 3.3     | ng    | 320381   | 5                     | 14.21 | 1948620 | 20.0 |