

Data Path : Z:\HPCHEM1\BNA\_M\DATA\BM052316\  
 Data File : BM005630.D  
 Acq On : 24 May 2016 04:18  
 Operator : UM/SJ  
 Sample : H3086-11RE  
 Misc :  
 ALS Vial : 16 Sample Multiplier: 1

Instrument :  
 BNA\_M  
 ClientSampleId :  
 JHGH6RE

## Integration Parameters: LSCINT.P

Integrator: RTE  
 Smoothing : OFF  
 Sampling : 1  
 Start Thrs: 0.2  
 Stop Thrs : 0

Filtering: 5  
 Min Area: 1 % 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\_M\METHODS\SOM02.2-EPA-BM052016.M  
 Title : SVOA 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         | 2.622       | 3             | 6           | 22           | rVB      | 100928         | 160587        | 1.48%           | 0.135%        |
| 2         | 4.922       | 390           | 397         | 406          | rVB      | 317179         | 457941        | 4.21%           | 0.384%        |
| 3         | 5.010       | 406           | 412         | 418          | rBV      | 89414          | 139622        | 1.28%           | 0.117%        |
| 4         | 5.898       | 558           | 563         | 571          | rVB3     | 74960          | 118051        | 1.09%           | 0.099%        |
| 5         | 6.081       | 586           | 594         | 607          | rBV6     | 158985         | 437771        | 4.03%           | 0.367%        |
| 6         | 6.187       | 607           | 612         | 622          | rVB5     | 50926          | 129927        | 1.20%           | 0.109%        |
| 7         | 6.310       | 623           | 633         | 637          | rBV4     | 93256          | 274141        | 2.52%           | 0.230%        |
| 8         | 6.357       | 637           | 641         | 645          | rVV      | 102485         | 161531        | 1.49%           | 0.136%        |
| 9         | 6.404       | 645           | 649         | 652          | rVV3     | 99740          | 192889        | 1.77%           | 0.162%        |
| 10        | 6.469       | 654           | 660         | 670          | rVV      | 310931         | 629565        | 5.79%           | 0.528%        |
| 11        | 6.557       | 670           | 675         | 680          | rVV2     | 85104          | 144904        | 1.33%           | 0.122%        |
| 12        | 6.616       | 680           | 685         | 690          | rVB3     | 99314          | 169607        | 1.56%           | 0.142%        |
| 13        | 6.681       | 690           | 696         | 705          | rBV5     | 65795          | 178147        | 1.64%           | 0.149%        |
| 14        | 6.793       | 710           | 715         | 720          | rVB2     | 91401          | 138227        | 1.27%           | 0.116%        |
| 15        | 6.893       | 728           | 732         | 735          | rBV2     | 103053         | 156041        | 1.44%           | 0.131%        |
| 16        | 6.940       | 735           | 740         | 743          | rVV4     | 378372         | 678229        | 6.24%           | 0.569%        |
| 17        | 6.981       | 743           | 747         | 759          | rVB      | 685968         | 1246947       | 11.47%          | 1.046%        |
| 18        | 7.081       | 759           | 764         | 767          | rBV      | 80326          | 130557        | 1.20%           | 0.110%        |
| 19        | 7.134       | 767           | 773         | 778          | rVV      | 586707         | 946961        | 8.71%           | 0.794%        |
| 20        | 7.181       | 778           | 781         | 785          | rVB3     | 129760         | 192168        | 1.77%           | 0.161%        |
| 21        | 7.298       | 796           | 801         | 803          | rBV3     | 60379          | 118538        | 1.09%           | 0.099%        |
| 22        | 7.340       | 803           | 808         | 816          | rVB      | 668992         | 1163110       | 10.70%          | 0.976%        |
| 23        | 7.516       | 832           | 838         | 844          | rVB3     | 230784         | 494711        | 4.55%           | 0.415%        |
| 24        | 7.622       | 849           | 856         | 863          | rVB6     | 104066         | 273700        | 2.52%           | 0.230%        |
| 25        | 7.722       | 863           | 873         | 876          | rBV5     | 219936         | 619176        | 5.70%           | 0.519%        |
| 26        | 7.775       | 876           | 882         | 884          | rVV2     | 546311         | 993790        | 9.14%           | 0.834%        |
| 27        | 7.804       | 884           | 887         | 892          | rVB      | 752153         | 1131895       | 10.41%          | 0.950%        |
| 28        | 7.869       | 892           | 898         | 903          | rVB3     | 188745         | 377750        | 3.48%           | 0.317%        |
| 29        | 7.940       | 903           | 910         | 912          | rBV4     | 145332         | 321714        | 2.96%           | 0.270%        |
| 30        | 7.981       | 913           | 917         | 921          | rVB4     | 242936         | 394580        | 3.63%           | 0.331%        |
| 31        | 8.028       | 921           | 925         | 927          | rBV2     | 93669          | 137036        | 1.26%           | 0.115%        |
| 32        | 8.145       | 942           | 945         | 951          | rVB5     | 128405         | 214670        | 1.98%           | 0.180%        |
| 33        | 8.210       | 952           | 956         | 958          | rBV3     | 87388          | 138192        | 1.27%           | 0.116%        |
| 34        | 8.322       | 967           | 975         | 978          | rBV3     | 292973         | 650582        | 5.99%           | 0.546%        |

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 Misc :  
 ALS Vial : 16 Sample Multiplier: 1

Instrument :  
 BNA\_M  
 ClientSampleId :  
 JHGH6RE

## Integration Parameters: LSCINT.P

Integrator: RTE  
 Smoothing : OFF  
 Sampling : 1  
 Start Thrs: 0.2  
 Stop Thrs : 0

Filtering: 5  
 Min Area: 1 % 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\_M\METHODS\SOM02.2-EPA-BM052016.M  
 Title : SVOA CALIBRATION

|    |        |      |      |      |      |         |         |        |        |
|----|--------|------|------|------|------|---------|---------|--------|--------|
| 35 | 8.351  | 978  | 980  | 984  | rVB2 | 212863  | 291787  | 2.68%  | 0.245% |
| 36 | 8.516  | 1002 | 1008 | 1013 | rBV  | 802714  | 1334219 | 12.28% | 1.119% |
| 37 | 8.563  | 1013 | 1016 | 1023 | rVB5 | 138871  | 232393  | 2.14%  | 0.195% |
| 38 | 8.628  | 1023 | 1027 | 1032 | rBV  | 537493  | 913260  | 8.40%  | 0.766% |
| 39 | 8.787  | 1044 | 1054 | 1062 | rVB7 | 151815  | 518560  | 4.77%  | 0.435% |
| 40 | 8.898  | 1063 | 1073 | 1078 | rBV3 | 490767  | 1432383 | 13.18% | 1.202% |
| 41 | 8.963  | 1079 | 1084 | 1088 | rBV  | 519311  | 896254  | 8.25%  | 0.752% |
| 42 | 9.057  | 1097 | 1100 | 1104 | rVB4 | 172830  | 265169  | 2.44%  | 0.222% |
| 43 | 9.110  | 1104 | 1109 | 1111 | rBV3 | 372719  | 584242  | 5.38%  | 0.490% |
| 44 | 9.151  | 1112 | 1116 | 1122 | rVB4 | 465050  | 908681  | 8.36%  | 0.762% |
| 45 | 9.222  | 1123 | 1128 | 1130 | rBV3 | 189260  | 330589  | 3.04%  | 0.277% |
| 46 | 9.263  | 1131 | 1135 | 1141 | rVB3 | 249403  | 607849  | 5.59%  | 0.510% |
| 47 | 9.439  | 1161 | 1165 | 1169 | rVB2 | 313289  | 413392  | 3.80%  | 0.347% |
| 48 | 9.516  | 1172 | 1178 | 1183 | rVV  | 939003  | 1514787 | 13.94% | 1.271% |
| 49 | 9.681  | 1200 | 1206 | 1210 | rBV2 | 594916  | 1027365 | 9.45%  | 0.862% |
| 50 | 9.722  | 1210 | 1213 | 1217 | rVB3 | 245288  | 324069  | 2.98%  | 0.272% |
| 51 | 9.775  | 1217 | 1222 | 1230 | rBV3 | 1311155 | 2144686 | 19.73% | 1.799% |
| 52 | 9.851  | 1231 | 1235 | 1236 | rBV2 | 195424  | 260850  | 2.40%  | 0.219% |
| 53 | 9.875  | 1236 | 1239 | 1243 | rVB2 | 372297  | 498513  | 4.59%  | 0.418% |
| 54 | 9.939  | 1246 | 1250 | 1255 | rVB3 | 444596  | 758497  | 6.98%  | 0.636% |
| 55 | 10.022 | 1256 | 1264 | 1267 | rBV5 | 363801  | 871865  | 8.02%  | 0.731% |
| 56 | 10.122 | 1278 | 1281 | 1285 | rVB  | 220200  | 264504  | 2.43%  | 0.222% |
| 57 | 10.181 | 1287 | 1291 | 1294 | rVV6 | 226103  | 391139  | 3.60%  | 0.328% |
| 58 | 10.228 | 1295 | 1299 | 1305 | rVB  | 770565  | 1273974 | 11.72% | 1.069% |
| 59 | 10.298 | 1306 | 1311 | 1313 | rBV2 | 436037  | 745782  | 6.86%  | 0.626% |
| 60 | 10.381 | 1320 | 1325 | 1330 | rBV3 | 374962  | 669742  | 6.16%  | 0.562% |
| 61 | 10.457 | 1335 | 1338 | 1340 | rBV3 | 177584  | 255497  | 2.35%  | 0.214% |
| 62 | 10.598 | 1351 | 1362 | 1369 | rBV4 | 1249639 | 3900822 | 35.89% | 3.273% |
| 63 | 10.716 | 1378 | 1382 | 1384 | rBV4 | 496721  | 875285  | 8.05%  | 0.734% |
| 64 | 10.757 | 1384 | 1389 | 1394 | rVB  | 1944483 | 3301269 | 30.37% | 2.770% |
| 65 | 10.816 | 1394 | 1399 | 1406 | rBV7 | 608793  | 1372332 | 12.63% | 1.151% |
| 66 | 10.886 | 1407 | 1411 | 1416 | rVB5 | 473802  | 794011  | 7.31%  | 0.666% |
| 67 | 11.081 | 1439 | 1444 | 1450 | rVB4 | 1135575 | 2026756 | 18.65% | 1.700% |
| 68 | 11.257 | 1469 | 1474 | 1476 | rBV3 | 687746  | 1180977 | 10.87% | 0.991% |
| 69 | 11.363 | 1488 | 1492 | 1498 | rVB3 | 525879  | 1007671 | 9.27%  | 0.845% |
| 70 | 11.428 | 1499 | 1503 | 1508 | rVV6 | 667921  | 1034725 | 9.52%  | 0.868% |
| 71 | 11.622 | 1531 | 1536 | 1540 | rBV  | 2683110 | 4728826 | 43.51% | 3.967% |

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## Integration Parameters: LSCINT.P

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Filtering: 5  
 Min Area: 1 % of largest Peak  
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If leading or trailing edge < 100 prefer < Baseline drop else tangent >  
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Method : Z:\HPCHEM1\BNA\_M\METHODS\SOM02.2-EPA-BM052016.M  
 Title : SVOA CALIBRATION

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|----|--------|------|------|------|------|---------|----------|---------|--------|
| 72 | 11.786 | 1561 | 1564 | 1572 | rVB3 | 505792  | 1133841  | 10.43%  | 0.951% |
| 73 | 11.880 | 1577 | 1580 | 1585 | rVB4 | 821411  | 1305196  | 12.01%  | 1.095% |
| 74 | 12.657 | 1706 | 1712 | 1716 | rBV4 | 1049097 | 1969778  | 18.12%  | 1.653% |
| 75 | 12.980 | 1763 | 1767 | 1772 | rVB2 | 3291468 | 5259900  | 48.40%  | 4.413% |
| 76 | 13.592 | 1867 | 1871 | 1878 | rBV5 | 862491  | 2484500  | 22.86%  | 2.084% |
| 77 | 13.933 | 1925 | 1929 | 1933 | rVB2 | 3474571 | 5136658  | 47.26%  | 4.309% |
| 78 | 13.974 | 1933 | 1936 | 1944 | rVB6 | 995059  | 1772153  | 16.31%  | 1.487% |
| 79 | 14.145 | 1962 | 1965 | 1969 | rVB3 | 955383  | 1222497  | 11.25%  | 1.026% |
| 80 | 14.851 | 2082 | 2085 | 2089 | rVB  | 1332510 | 1750014  | 16.10%  | 1.468% |
| 81 | 14.968 | 2102 | 2105 | 2116 | rVB8 | 1409954 | 3513917  | 32.33%  | 2.948% |
| 82 | 15.074 | 2119 | 2123 | 2126 | rBV2 | 973170  | 1706015  | 15.70%  | 1.431% |
| 83 | 15.710 | 2226 | 2231 | 2237 | rVB2 | 2935744 | 4562419  | 41.98%  | 3.828% |
| 84 | 15.951 | 2269 | 2272 | 2274 | rBV  | 876926  | 1152571  | 10.60%  | 0.967% |
| 85 | 16.186 | 2306 | 2312 | 2324 | rVB2 | 5301908 | 10868660 | 100.00% | 9.118% |
| 86 | 16.310 | 2330 | 2333 | 2337 | rVB2 | 1201464 | 1572322  | 14.47%  | 1.319% |
| 87 | 16.563 | 2372 | 2376 | 2381 | rBV3 | 1749134 | 2725703  | 25.08%  | 2.287% |
| 88 | 17.004 | 2447 | 2451 | 2455 | rBV2 | 2598720 | 3538498  | 32.56%  | 2.969% |
| 89 | 17.292 | 2497 | 2500 | 2508 | rVB2 | 1760340 | 3045237  | 28.02%  | 2.555% |
| 90 | 17.604 | 2549 | 2553 | 2557 | rBV3 | 1491254 | 2363166  | 21.74%  | 1.983% |
| 91 | 19.580 | 2885 | 2889 | 2893 | rBV2 | 1432988 | 2183085  | 20.09%  | 1.832% |
| 92 | 19.686 | 2903 | 2907 | 2913 | rVB  | 1149858 | 1890306  | 17.39%  | 1.586% |
| 93 | 21.362 | 3189 | 3192 | 3197 | rVB  | 1205710 | 1459430  | 13.43%  | 1.224% |
| 94 | 23.503 | 3552 | 3556 | 3569 | rVB2 | 1188995 | 2914680  | 26.82%  | 2.445% |

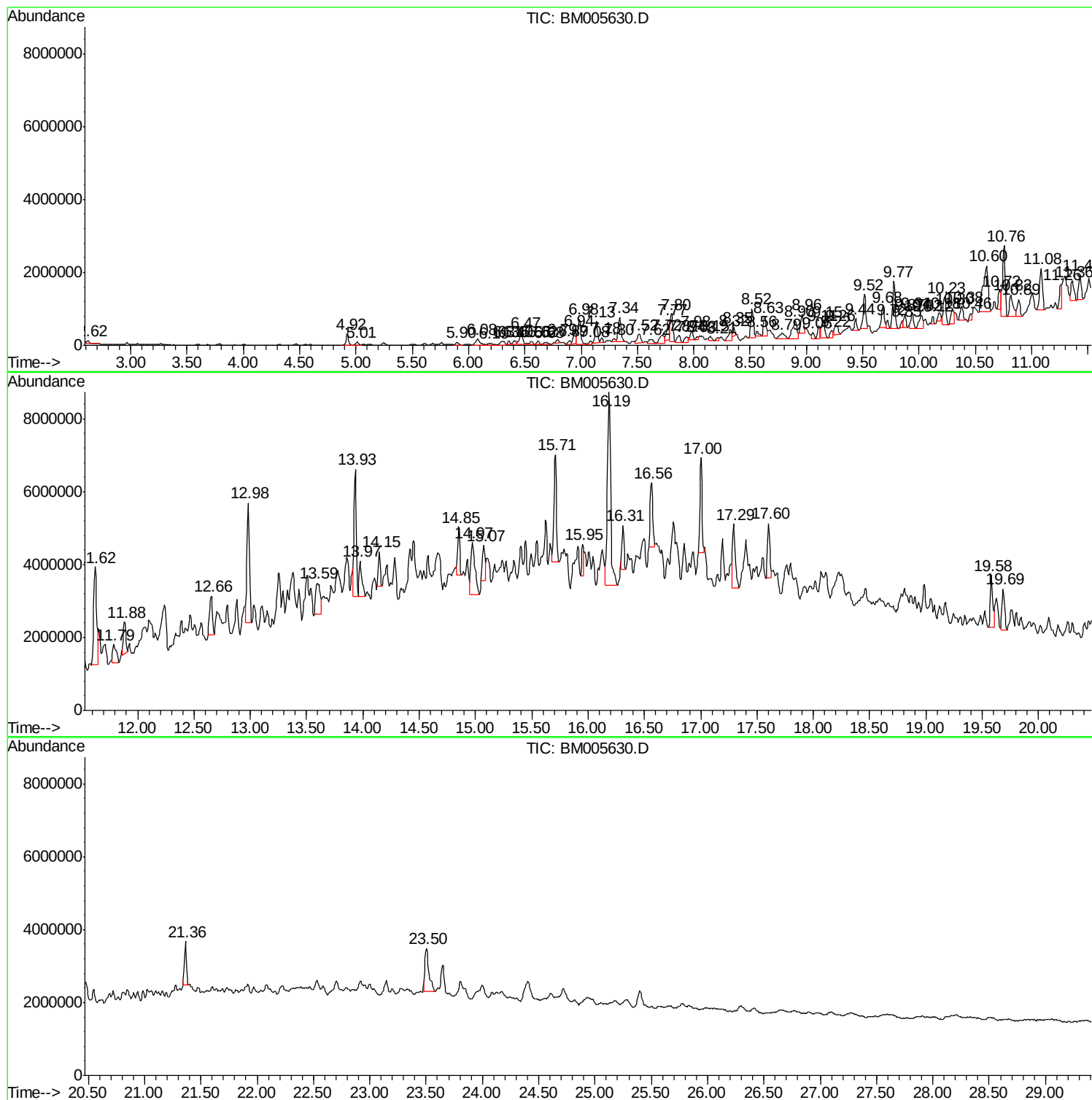
Sum of corrected areas: 119196525

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Misc :  
ALS Vial : 16 Sample Multiplier: 1

Instrument :  
BNA\_M  
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JHGH6RE

Quant Method : Z:\HPCHEM1\BNA\_M\METHODS\SOM02.2-EPA-BM052016.M  
Quant Title : SVOA CALIBRATION

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



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Quant Title : SVOA CALIBRATION

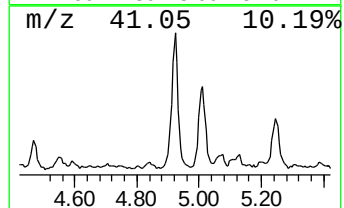
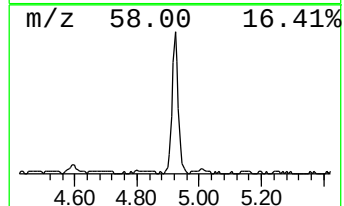
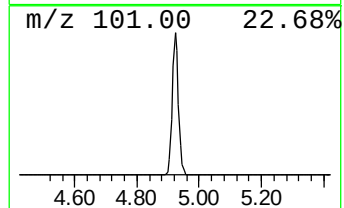
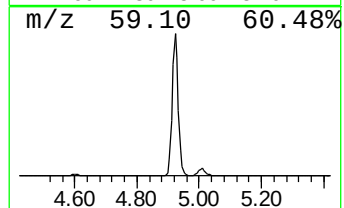
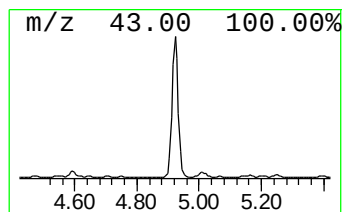
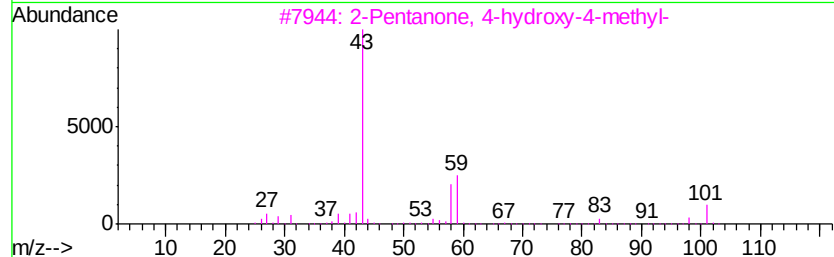
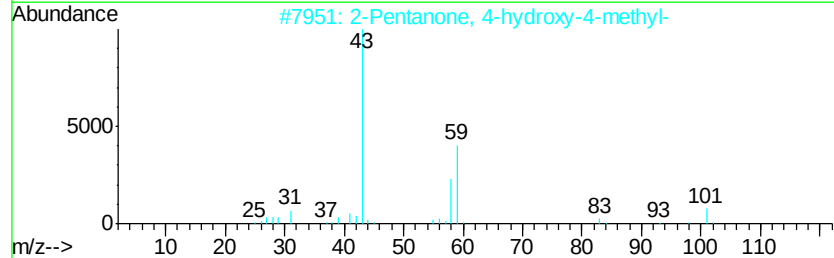
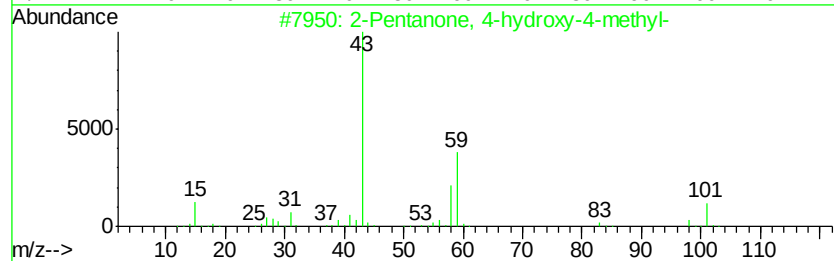
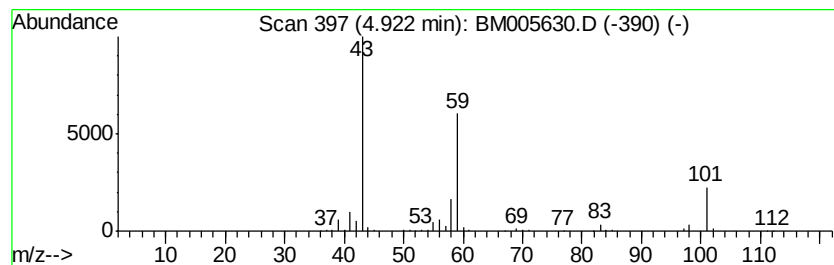
TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 2 2-Pentanone, 4-hydroxy-4-me... Concentration Rank 26

| R.T. | EstConc    | Area   | Relative to ISTD       | R.T. |
|------|------------|--------|------------------------|------|
| 4.92 | 8.09 ng/ul | 457941 | 1,4-Dichlorobenzene-d4 | 7.80 |

| Hit# | of | 5 | Tentative ID                        | MW  | MolForm  | CAS#        | Qual |
|------|----|---|-------------------------------------|-----|----------|-------------|------|
| 1    |    |   | 2-Pentanone, 4-hydroxy-4-methyl-    | 116 | C6H12O2  | 000123-42-2 | 56   |
| 2    |    |   | 2-Pentanone, 4-hydroxy-4-methyl-    | 116 | C6H12O2  | 000123-42-2 | 40   |
| 3    |    |   | 2-Pentanone, 4-hydroxy-4-methyl-    | 116 | C6H12O2  | 000123-42-2 | 39   |
| 4    |    |   | 2-Hexanol, 2-methyl-                | 116 | C7H16O   | 000625-23-0 | 28   |
| 5    |    |   | Butanamide, 2-hydroxy-2,N-dimethyl- | 117 | C5H11NO2 | 039961-72-3 | 17   |



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Quant Method : Z:\HPCHEM1\BNA\_M\METHODS\SOM02.2-EPA-BM052016.M  
Quant Title : SVOA CALIBRATION

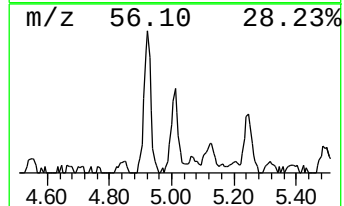
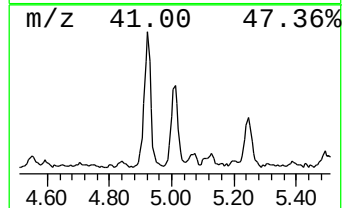
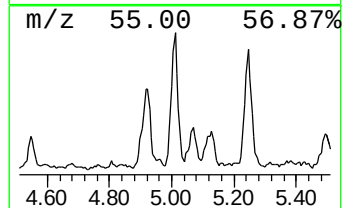
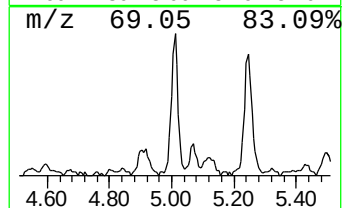
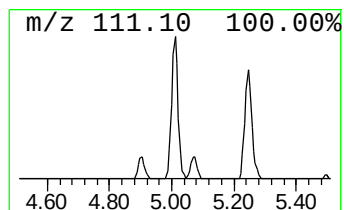
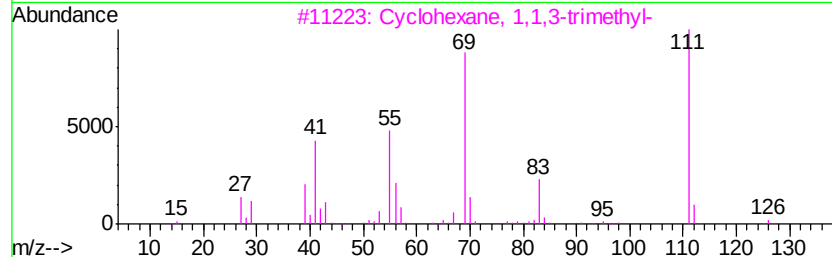
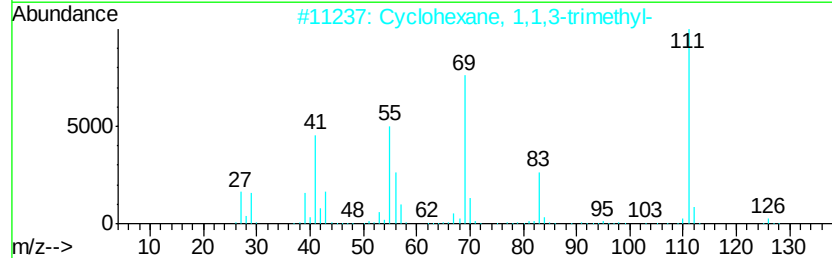
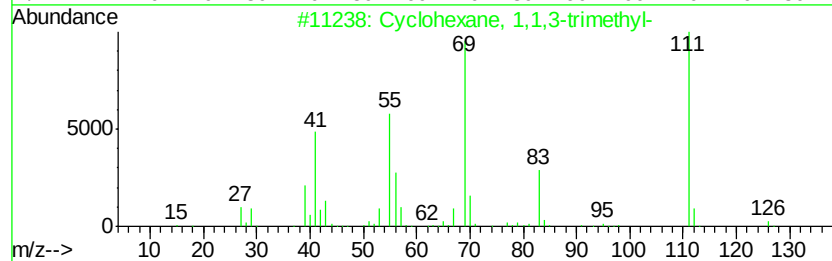
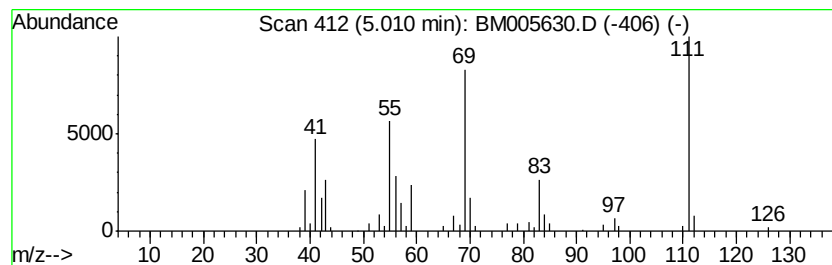
TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 3 (DEL) Alkane: Cyclic--5.01 Concentration Rank 58

| R.T. | EstConc    | Area   | Relative to ISTD       | R.T. |
|------|------------|--------|------------------------|------|
| 5.01 | 2.47 ng/ul | 139622 | 1,4-Dichlorobenzene-d4 | 7.80 |

| Hit# | of | Tentative ID                         | MW  | MolForm | CAS#        | Qual |
|------|----|--------------------------------------|-----|---------|-------------|------|
| 1    | 5  | Cyclohexane, 1,1,3-trimethyl-        | 126 | C9H18   | 003073-66-3 | 87   |
| 2    |    | Cyclohexane, 1,1,3-trimethyl-        | 126 | C9H18   | 003073-66-3 | 87   |
| 3    |    | Cyclohexane, 1,1,3-trimethyl-        | 126 | C9H18   | 003073-66-3 | 74   |
| 4    |    | Cyclohexane, 1,2,4-trimethyl-, (...) | 126 | C9H18   | 007667-60-9 | 72   |
| 5    |    | Cyclohexane, 1,3,5-trimethyl-        | 126 | C9H18   | 001839-63-0 | 59   |



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Misc :  
ALS Vial : 16 Sample Multiplier: 1

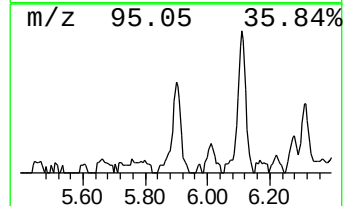
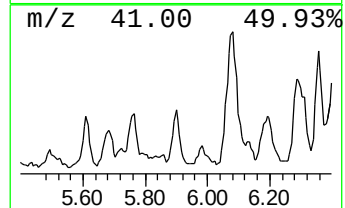
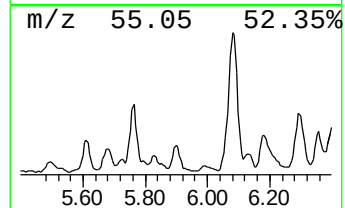
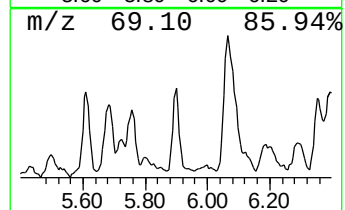
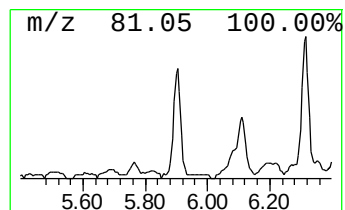
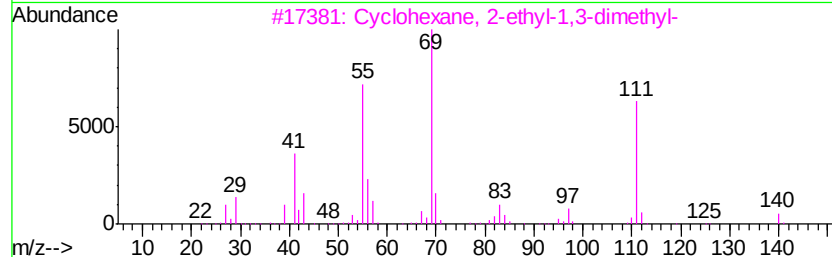
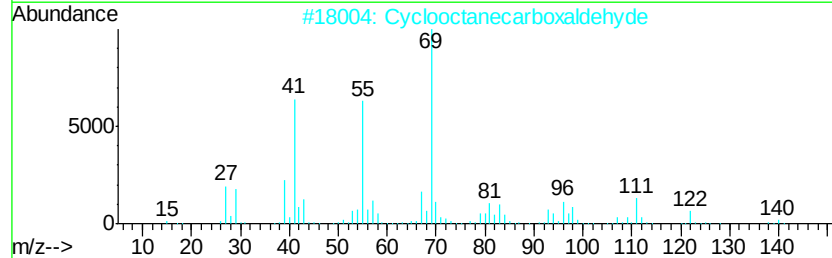
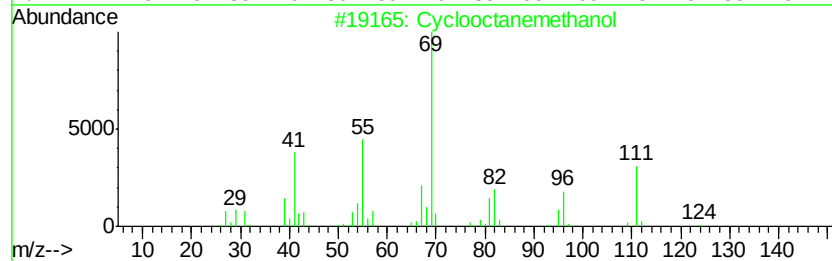
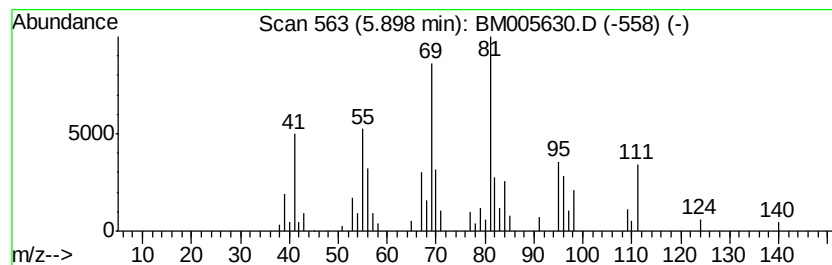
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ClientSampleId :  
JHGH6RE

Quant Method : Z:\HPCHEM1\BNA\_M\METHODS\SOM02.2-EPA-BM052016.M  
Quant Title : SVOA CALIBRATION

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

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Peak Number 4 Cyclooctanemethanol Concentration Rank 65

| R.T.      | EstConc                            | Area   | Relative to ISTD       | R.T.        |      |
|-----------|------------------------------------|--------|------------------------|-------------|------|
| 5.90      | 2.09 ng/ul                         | 118051 | 1,4-Dichlorobenzene-d4 | 7.80        |      |
| Hit# of 5 | Tentative ID                       | MW     | MolForm                | CAS#        | Qual |
| 1         | Cyclooctanemethanol                | 142    | C9H18O                 | 003637-63-6 | 43   |
| 2         | Cyclooctanecarboxaldehyde          | 140    | C9H16O                 | 006688-11-5 | 35   |
| 3         | Cyclohexane, 2-ethyl-1,3-dimethyl- | 140    | C10H20                 | 007045-67-2 | 27   |
| 4         | 2,4-Hexadienal, (E,E)-             | 96     | C6H8O                  | 000142-83-6 | 25   |
| 5         | Cyclohexene, 3-methyl-             | 96     | C7H12                  | 000591-48-0 | 25   |



Data Path : Z:\HPCHEM1\BNA\_M\DATA\BM052316\  
Data File : BM005630.D  
Acq On : 24 May 2016 04:18  
Operator : UM/SJ  
Sample : H3086-11RE  
Misc :  
ALS Vial : 16 Sample Multiplier: 1

Instrument :  
BNA\_M  
ClientSampleId :  
JHGH6RE

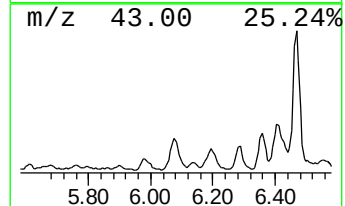
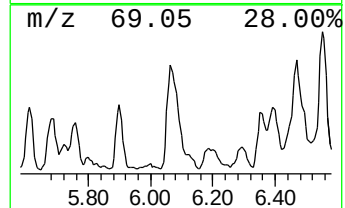
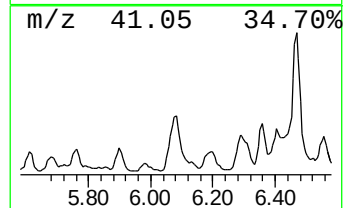
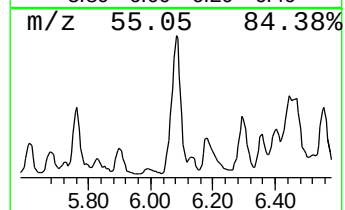
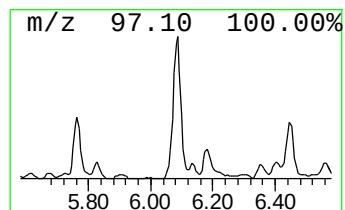
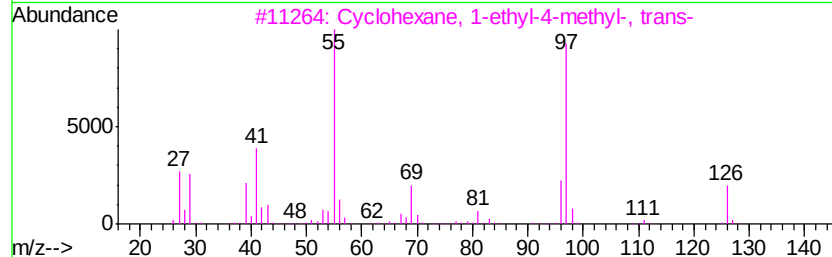
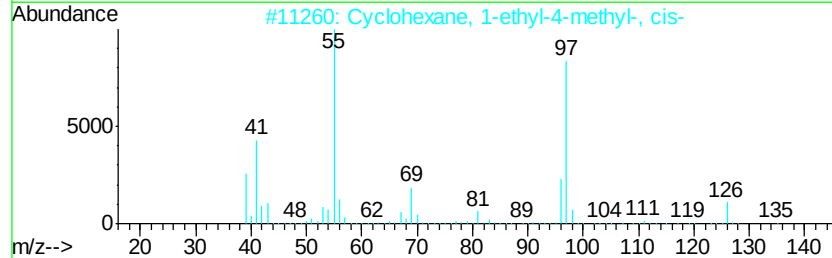
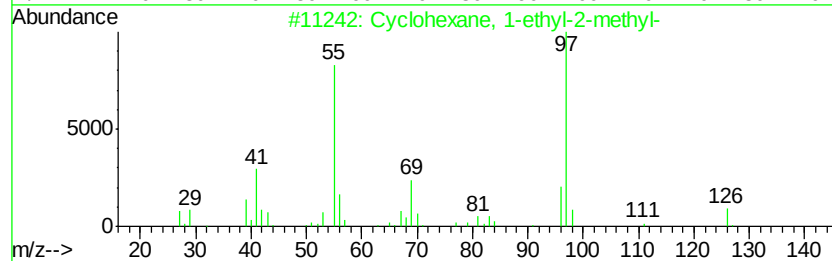
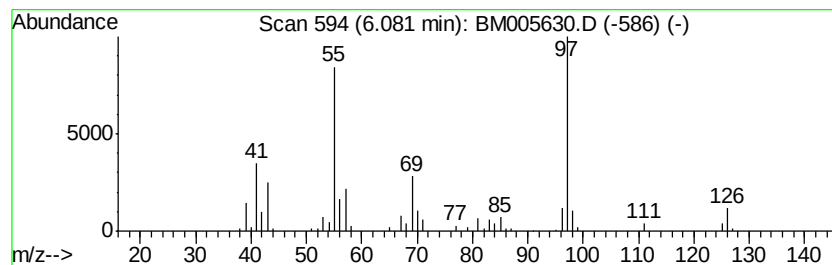
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Quant Title : SVOA CALIBRATION

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

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Peak Number 5 (DEL) Alkane: Cyclic-6.08 Concentration Rank 28

| R.T. | EstConc    | Area   | Relative to ISTD       | R.T. |
|------|------------|--------|------------------------|------|
| 6.08 | 7.74 ng/ul | 437771 | 1,4-Dichlorobenzene-d4 | 7.80 |

| Hit# | of | 5 | Tentative ID                        | MW  | MolForm | CAS#        | Qual |
|------|----|---|-------------------------------------|-----|---------|-------------|------|
| 1    |    |   | Cyclohexane, 1-ethyl-2-methyl-      | 126 | C9H18   | 003728-54-9 | 87   |
| 2    |    |   | Cyclohexane, 1-ethyl-4-methyl-, ... | 126 | C9H18   | 004926-78-7 | 72   |
| 3    |    |   | Cyclohexane, 1-ethyl-4-methyl-, ... | 126 | C9H18   | 006236-88-0 | 72   |
| 4    |    |   | Cyclohexane, 1-ethyl-2-methyl-, ... | 126 | C9H18   | 004923-77-7 | 72   |
| 5    |    |   | Cyclohexane, 1,3-dimethyl-, cis-    | 112 | C8H16   | 000638-04-0 | 64   |





Data Path : Z:\HPCHEM1\BNA\_M\DATA\BM052316\  
Data File : BM005630.D  
Acq On : 24 May 2016 04:18  
Operator : UM/SJ  
Sample : H3086-11RE  
Misc :  
ALS Vial : 16 Sample Multiplier: 1

Instrument :  
BNA\_M  
ClientSampled :  
JHG6RE

Quant Method : Z:\HPCHEM1\BNA\_M\METHODS\SOM02.2-EPA-BM052016.M  
Quant Title : SVOA CALIBRATION

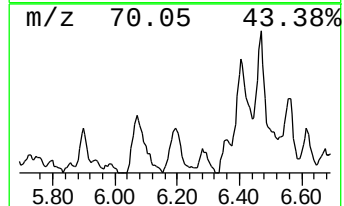
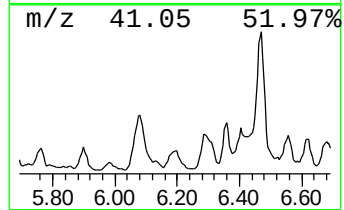
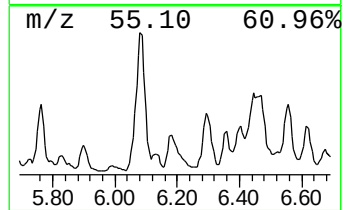
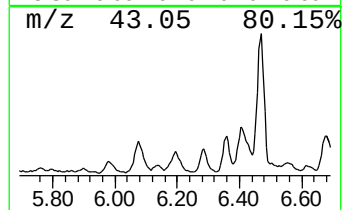
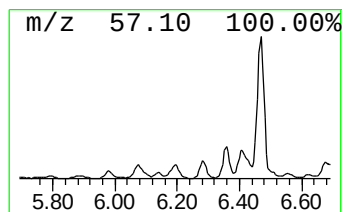
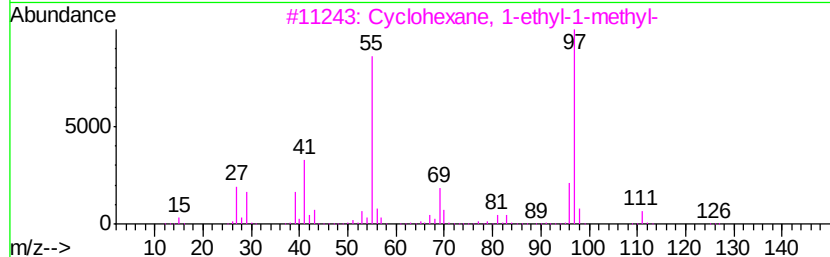
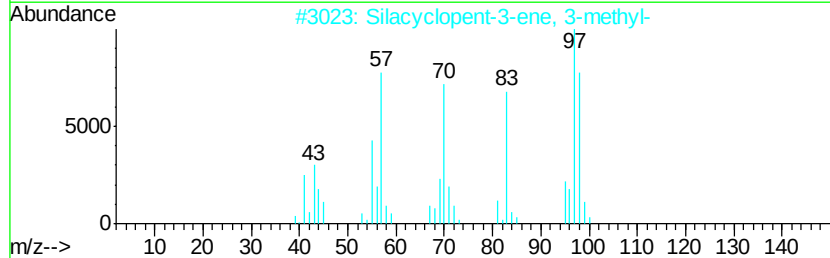
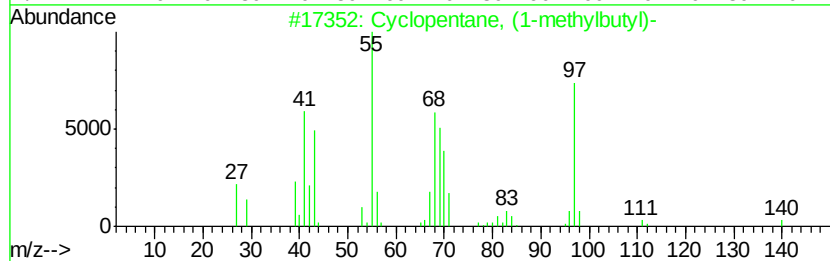
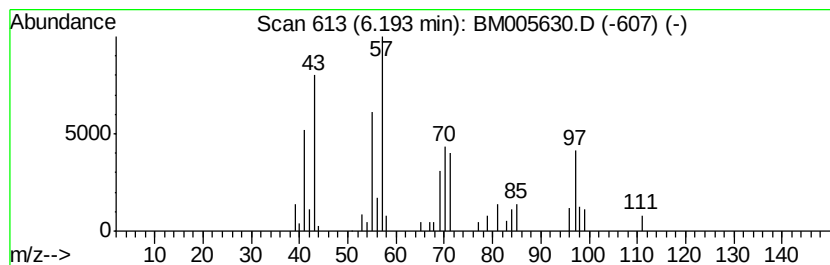
TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 6 (DEL) Alkane: Cyclic-6.19 Concentration Rank 63

| R.T. | EstConc    | Area   | Relative to ISTD       | R.T. |
|------|------------|--------|------------------------|------|
| 6.19 | 2.30 ng/ul | 129927 | 1,4-Dichlorobenzene-d4 | 7.80 |

| Hit# | of | Tentative ID                   | MW  | MolForm | CAS#        | Qual |
|------|----|--------------------------------|-----|---------|-------------|------|
| 1    | 5  | Cyclopentane, (1-methylbutyl)- | 140 | C10H20  | 004737-43-3 | 42   |
| 2    |    | Silacyclopent-3-ene, 3-methyl- | 98  | C5H10Si | 054077-65-5 | 38   |
| 3    |    | Cyclohexane, 1-ethyl-1-methyl- | 126 | C9H18   | 004926-90-3 | 35   |
| 4    |    | Cyclohexane, 1-ethyl-1-methyl- | 126 | C9H18   | 004926-90-3 | 35   |
| 5    |    | 1-Decanol, 2-ethyl-            | 186 | C12H26O | 021078-65-9 | 35   |



Data Path : Z:\HPCHEM1\BNA\_M\DATA\BM052316\  
Data File : BM005630.D  
Acq On : 24 May 2016 04:18  
Operator : UM/SJ  
Sample : H3086-11RE  
Misc :  
ALS Vial : 16 Sample Multiplier: 1

Instrument :  
BNA\_M  
ClientSampleId :  
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Quant Method : Z:\HPCHEM1\BNA\_M\METHODS\SOM02.2-EPA-BM052016.M  
Quant Title : SVOA CALIBRATION

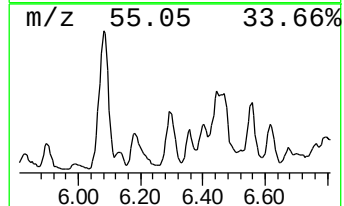
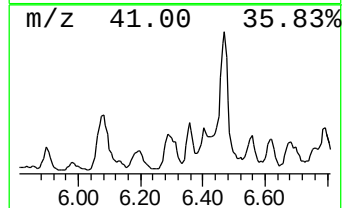
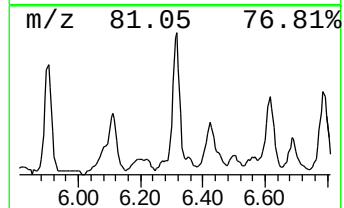
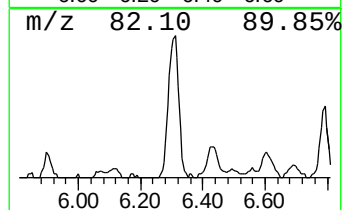
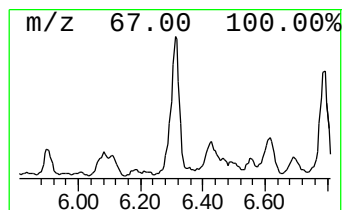
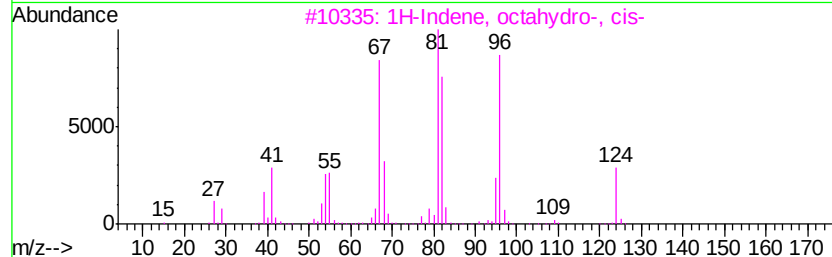
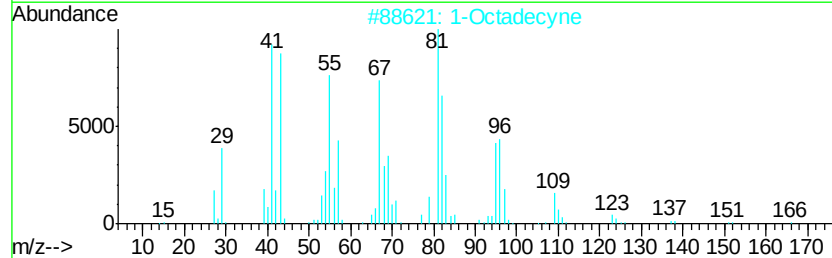
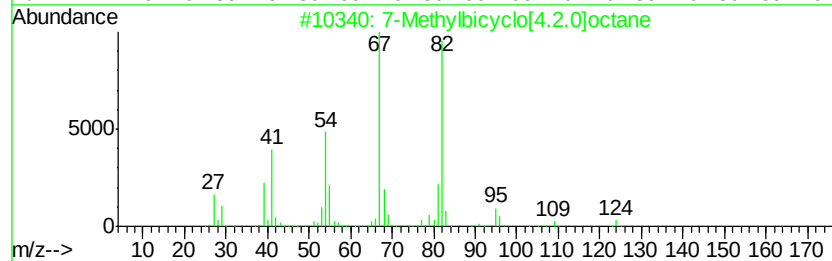
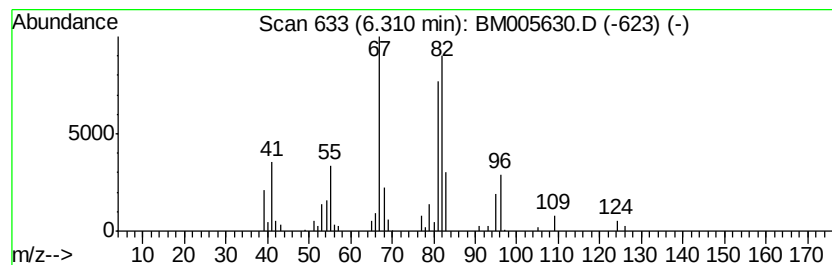
TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 7 (DEL) Alkane: Branched-6.31 Concentration Rank 40

| R.T. | EstConc    | Area   | Relative to ISTD       | R.T. |
|------|------------|--------|------------------------|------|
| 6.31 | 4.84 ng/ul | 274141 | 1,4-Dichlorobenzene-d4 | 7.80 |

| Hit# | of | 5 | Tentative ID                   | MW  | MolForm | CAS#         | Qual |
|------|----|---|--------------------------------|-----|---------|--------------|------|
| 1    |    |   | 7-Methylbicyclo[4.2.0]octane   | 124 | C9H16   | 1000210-90-2 | 52   |
| 2    |    |   | 1-Octadecyne                   | 250 | C18H34  | 000629-89-0  | 50   |
| 3    |    |   | 1H-Indene, octahydro-, cis-    | 124 | C9H16   | 004551-51-3  | 47   |
| 4    |    |   | 1-Dodecyne                     | 166 | C12H22  | 000765-03-7  | 47   |
| 5    |    |   | Pentalene, octahydro-2-methyl- | 124 | C9H16   | 003868-64-2  | 43   |



Data Path : Z:\HPCHEM1\BNA\_M\DATA\BM052316\  
Data File : BM005630.D  
Acq On : 24 May 2016 04:18  
Operator : UM/SJ  
Sample : H3086-11RE  
Misc :  
ALS Vial : 16 Sample Multiplier: 1

Instrument :  
BNA\_M  
ClientSampleId :  
JHGH6RE

Quant Method : Z:\HPCHEM1\BNA\_M\METHODS\SOM02.2-EPA-BM052016.M  
Quant Title : SVOA CALIBRATION

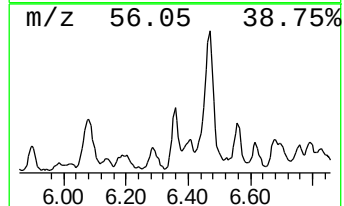
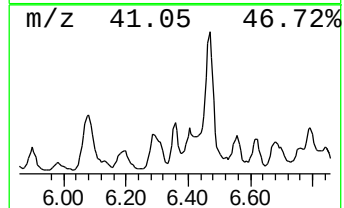
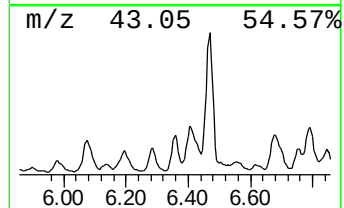
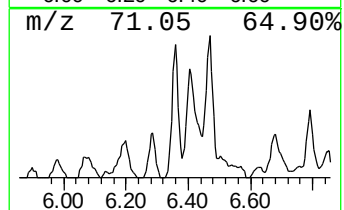
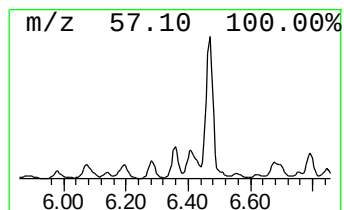
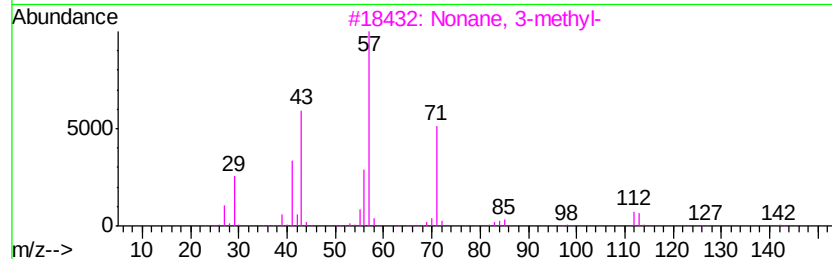
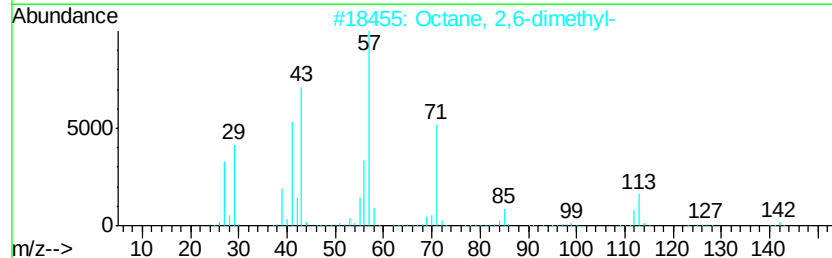
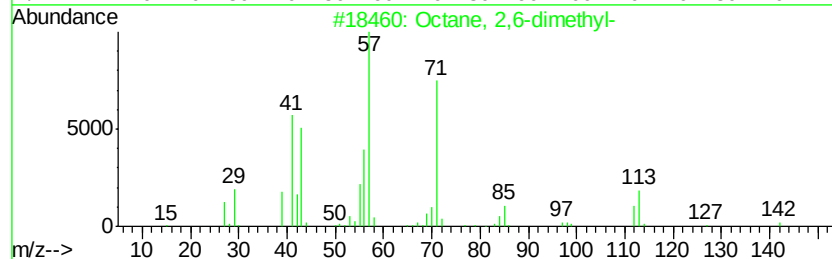
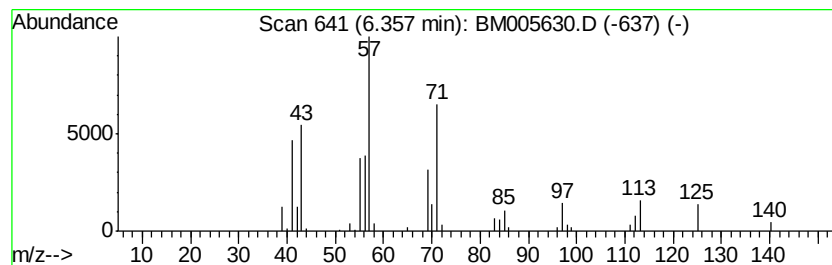
TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 8 (DEL) Alkane: Straight-Chai... Concentration Rank 53

| R.T. | EstConc    | Area   | Relative to ISTD       | R.T. |
|------|------------|--------|------------------------|------|
| 6.36 | 2.85 ng/ul | 161531 | 1,4-Dichlorobenzene-d4 | 7.80 |

| Hit# | of | 5 | Tentative ID          | MW  | MolForm | CAS#        | Qual |
|------|----|---|-----------------------|-----|---------|-------------|------|
| 1    |    |   | Octane, 2,6-dimethyl- | 142 | C10H22  | 002051-30-1 | 72   |
| 2    |    |   | Octane, 2,6-dimethyl- | 142 | C10H22  | 002051-30-1 | 64   |
| 3    |    |   | Nonane, 3-methyl-     | 142 | C10H22  | 005911-04-6 | 53   |
| 4    |    |   | Octane, 2,6-dimethyl- | 142 | C10H22  | 002051-30-1 | 53   |
| 5    |    |   | Nonane, 3-methyl-     | 142 | C10H22  | 005911-04-6 | 50   |



Data Path : Z:\HPCHEM1\BNA\_M\DATA\BM052316\  
Data File : BM005630.D  
Acq On : 24 May 2016 04:18  
Operator : UM/SJ  
Sample : H3086-11RE  
Misc :  
ALS Vial : 16 Sample Multiplier: 1

Instrument :  
BNA\_M  
ClientSampleId :  
JHGH6RE

Quant Method : Z:\HPCHEM1\BNA\_M\METHODS\SOM02.2-EPA-BM052016.M  
Quant Title : SVOA CALIBRATION

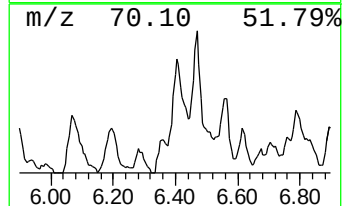
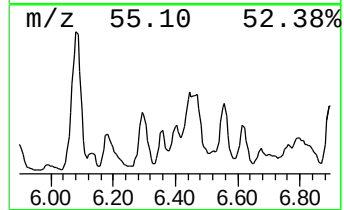
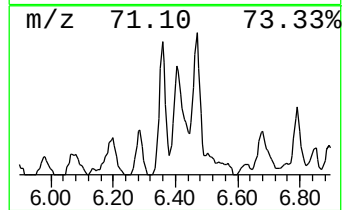
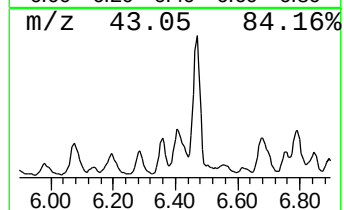
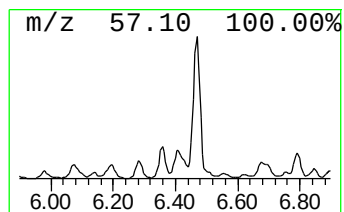
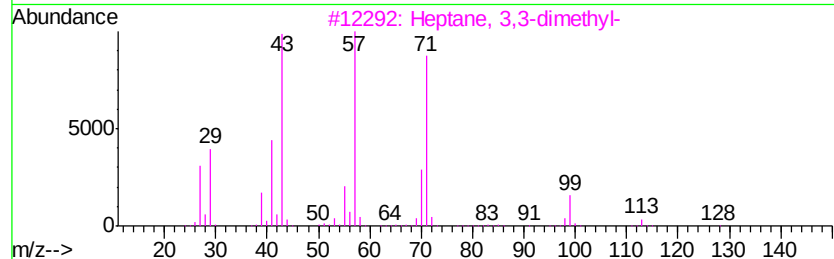
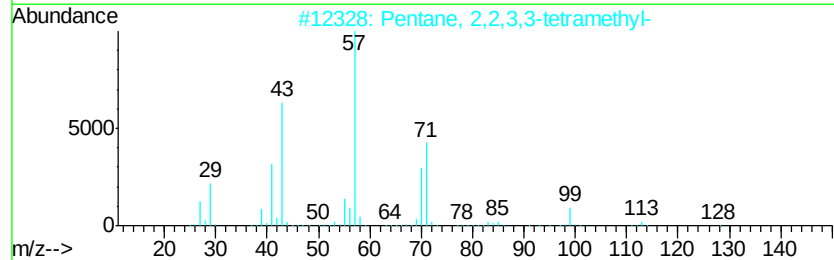
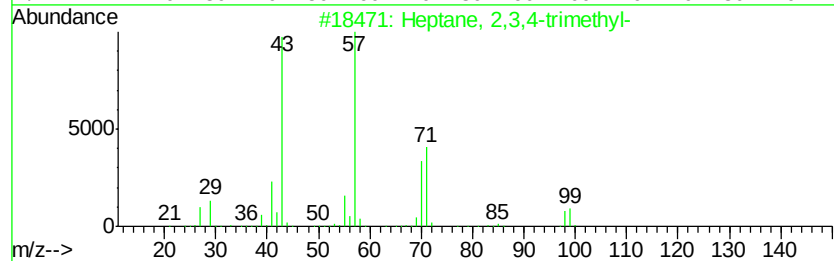
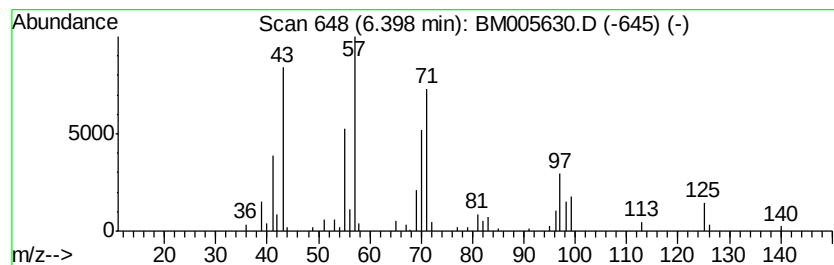
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TIC Integration Parameters: LSCINT.P

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Peak Number 9 (DEL) Alkane: Straight-Chai... Concentration Rank 49

| R.T. | EstConc    | Area   | Relative to ISTD       | R.T. |
|------|------------|--------|------------------------|------|
| 6.40 | 3.41 ng/ul | 192889 | 1,4-Dichlorobenzene-d4 | 7.80 |

| Hit# | of | Tentative ID                  | MW  | MolForm | CAS#        | Qual |
|------|----|-------------------------------|-----|---------|-------------|------|
| 1    | 5  | Heptane, 2,3,4-trimethyl-     | 142 | C10H22  | 052896-95-4 | 72   |
| 2    |    | Pentane, 2,2,3,3-tetramethyl- | 128 | C9H20   | 007154-79-2 | 59   |
| 3    |    | Heptane, 3,3-dimethyl-        | 128 | C9H20   | 004032-86-4 | 53   |
| 4    |    | Hexane, 3,3,4-trimethyl-      | 128 | C9H20   | 016747-31-2 | 53   |
| 5    |    | Decane, 3,3,4-trimethyl-      | 184 | C13H28  | 049622-18-6 | 50   |



Data Path : Z:\HPCHEM1\BNA\_M\DATA\BM052316\  
Data File : BM005630.D  
Acq On : 24 May 2016 04:18  
Operator : UM/SJ  
Sample : H3086-11RE  
Misc :  
ALS Vial : 16 Sample Multiplier: 1

Instrument :  
BNA\_M  
ClientSampleId :  
JHGH6RE

Quant Method : Z:\HPCHEM1\BNA\_M\METHODS\SOM02.2-EPA-BM052016.M  
Quant Title : SVOA CALIBRATION

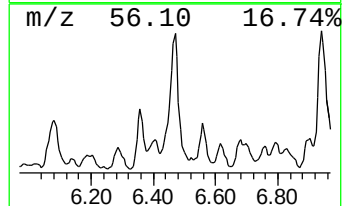
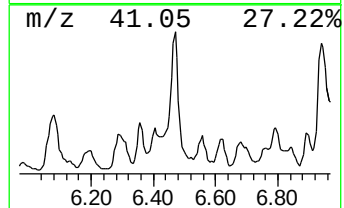
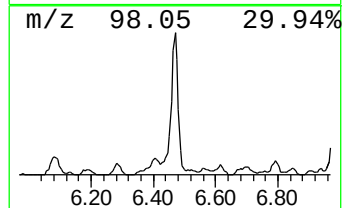
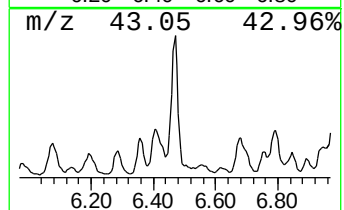
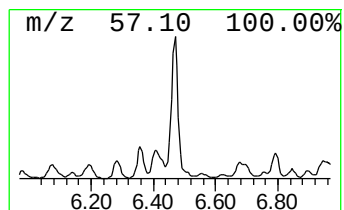
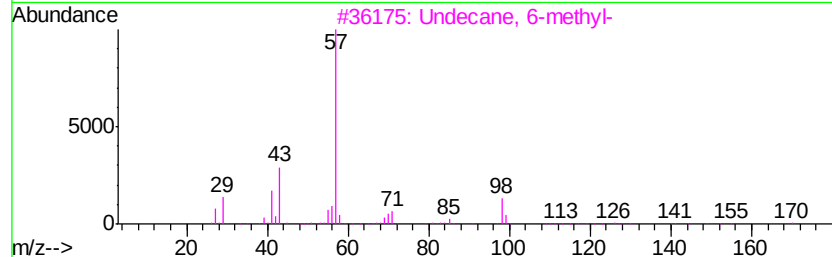
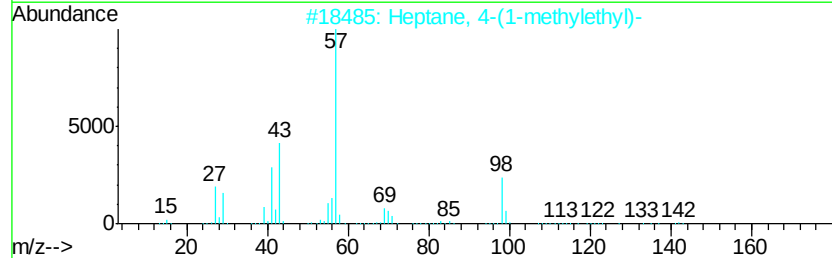
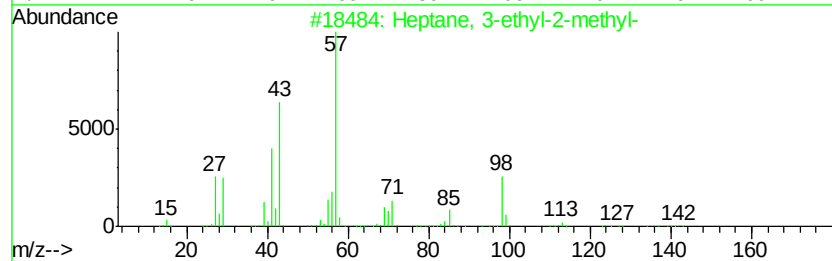
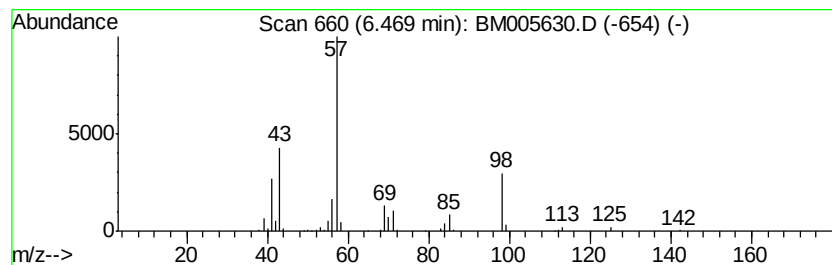
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TIC Integration Parameters: LSCINT.P

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Peak Number 10 (DEL) Alkane: Straight-Chai... Concentration Rank 18

| R.T. | EstConc     | Area   | Relative to ISTD       | R.T. |
|------|-------------|--------|------------------------|------|
| 6.47 | 11.12 ng/ul | 629565 | 1,4-Dichlorobenzene-d4 | 7.80 |

| Hit# | of | Tentative ID                | MW  | MolForm | CAS#        | Qual |
|------|----|-----------------------------|-----|---------|-------------|------|
| 1    | 5  | Heptane, 3-ethyl-2-methyl-  | 142 | C10H22  | 014676-29-0 | 72   |
| 2    |    | Heptane, 4-(1-methylethyl)- | 142 | C10H22  | 052896-87-4 | 64   |
| 3    |    | Undecane, 6-methyl-         | 170 | C12H26  | 017302-33-9 | 59   |
| 4    |    | Heptane, 3-ethyl-2-methyl-  | 142 | C10H22  | 014676-29-0 | 53   |
| 5    |    | Decane, 2,5-dimethyl-       | 170 | C12H26  | 017312-50-4 | 50   |



Data Path : Z:\HPCHEM1\BNA\_M\DATA\BM052316\  
Data File : BM005630.D  
Acq On : 24 May 2016 04:18  
Operator : UM/SJ  
Sample : H3086-11RE  
Misc :  
ALS Vial : 16 Sample Multiplier: 1

Instrument :  
BNA\_M  
ClientSampleId :  
JHG6RE

Quant Method : Z:\HPCHEM1\BNA\_M\METHODS\SOM02.2-EPA-BM052016.M  
Quant Title : SVOA CALIBRATION

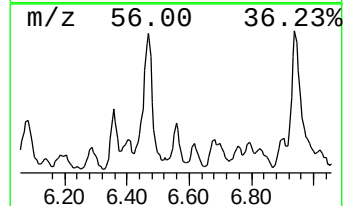
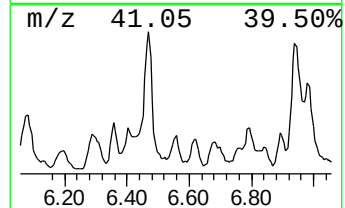
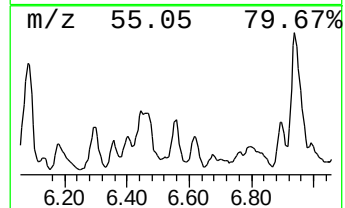
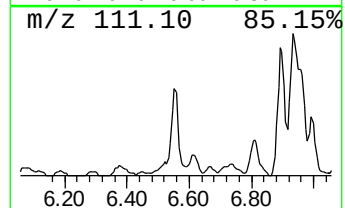
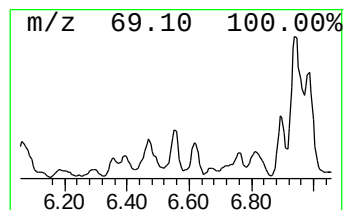
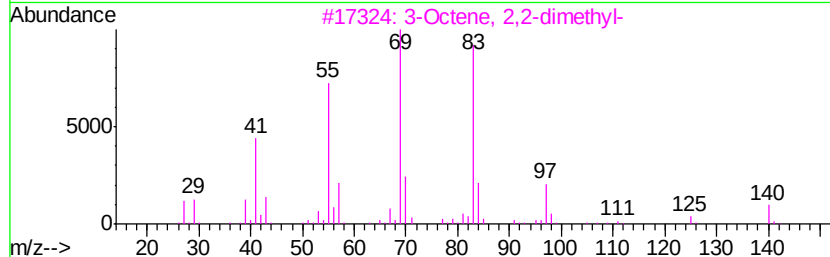
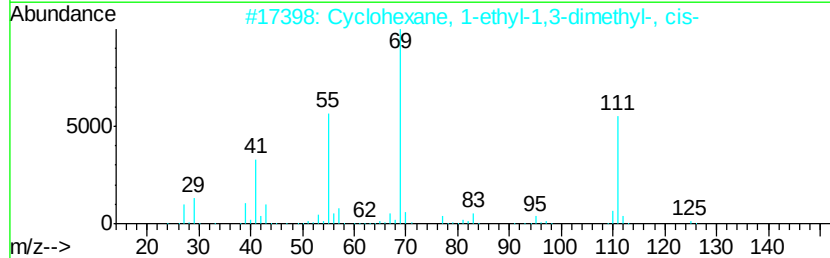
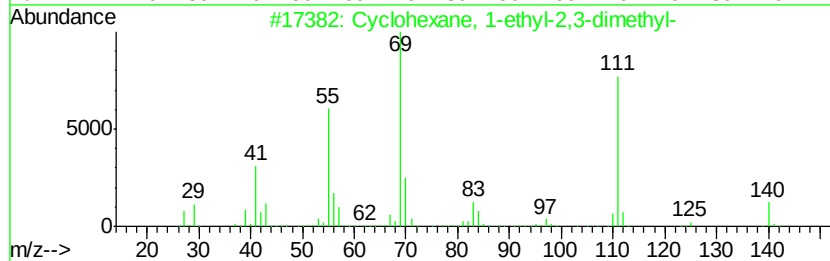
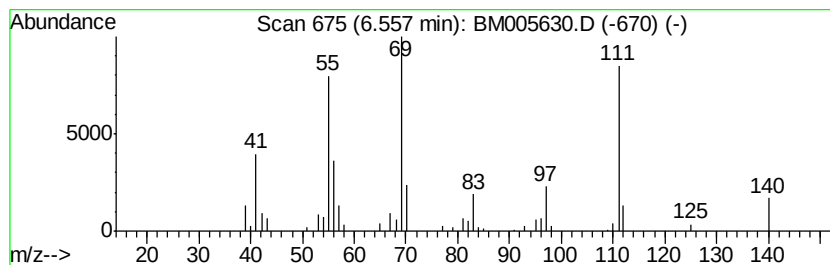
TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 11 (DEL) Alkane: Cyclic-6.56 Concentration Rank 56

| R.T. | EstConc    | Area   | Relative to ISTD       | R.T. |
|------|------------|--------|------------------------|------|
| 6.56 | 2.56 ng/ul | 144904 | 1,4-Dichlorobenzene-d4 | 7.80 |

| Hit# | of | Tentative ID                         | MW  | MolForm | CAS#         | Qual |
|------|----|--------------------------------------|-----|---------|--------------|------|
| 1    | 5  | Cyclohexane, 1-ethyl-2,3-dimethyl-   | 140 | C10H20  | 007058-05-1  | 87   |
| 2    |    | Cyclohexane, 1-ethyl-1,3-dimethyl... | 140 | C10H20  | 062238-31-7  | 53   |
| 3    |    | 3-Octene, 2,2-dimethyl-              | 140 | C10H20  | 086869-76-3  | 43   |
| 4    |    | 3-Heptene, 2-methyl-, (E)-           | 112 | C8H16   | 000692-96-6  | 38   |
| 5    |    | 2-Hexene, 4-ethyl-2,3-dimethyl-      | 140 | C10H20  | 1000149-19-7 | 38   |



Data Path : Z:\HPCHEM1\BNA\_M\DATA\BM052316\  
Data File : BM005630.D  
Acq On : 24 May 2016 04:18  
Operator : UM/SJ  
Sample : H3086-11RE  
Misc :  
ALS Vial : 16 Sample Multiplier: 1

Instrument :  
BNA\_M  
ClientSampleId :  
JHGH6RE

Quant Method : Z:\HPCHEM1\BNA\_M\METHODS\SOM02.2-EPA-BM052016.M  
Quant Title : SVOA CALIBRATION

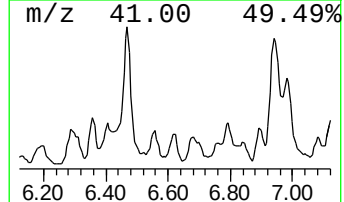
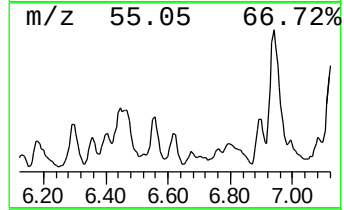
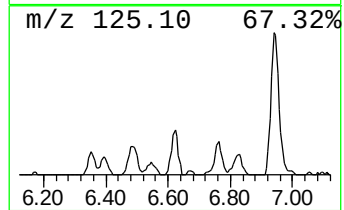
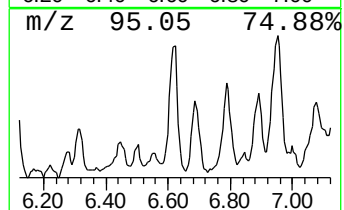
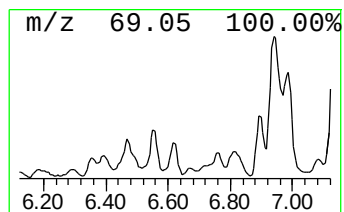
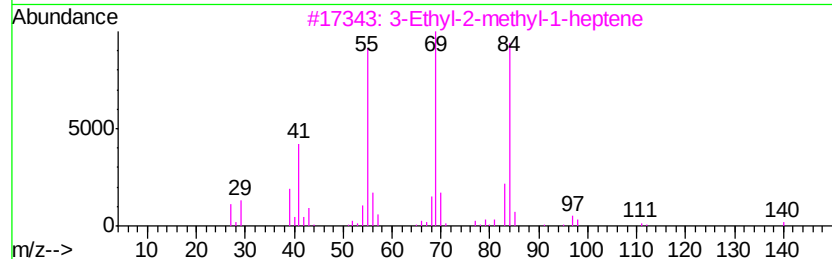
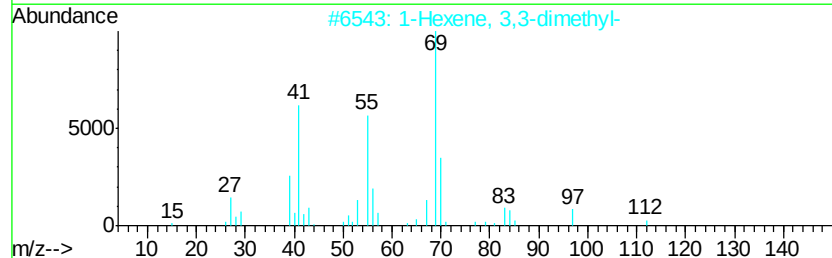
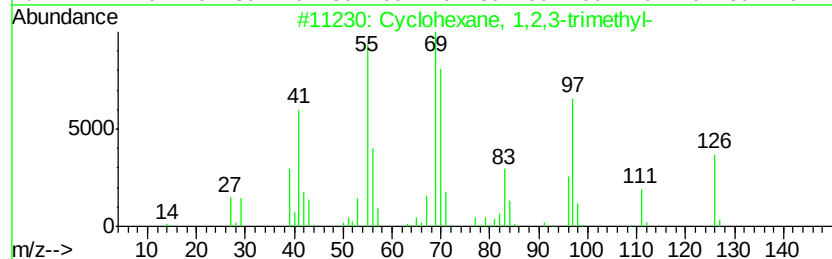
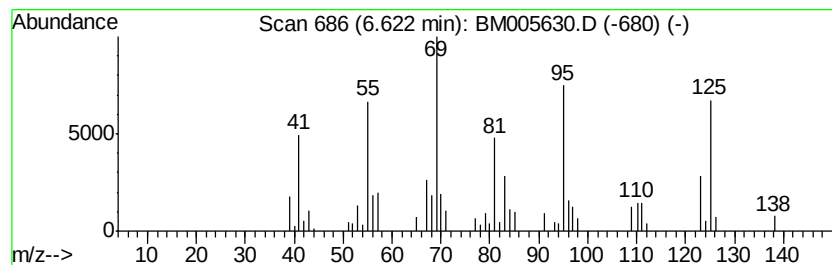
TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 12 (DEL) Alkane: Cyclic-6.62 Concentration Rank 52

| R.T. | EstConc    | Area   | Relative to ISTD       | R.T. |
|------|------------|--------|------------------------|------|
| 6.62 | 3.00 ng/ul | 169607 | 1,4-Dichlorobenzene-d4 | 7.80 |

| Hit# | of | 5 | Tentative ID                  | MW  | MolForm | CAS#        | Qual |
|------|----|---|-------------------------------|-----|---------|-------------|------|
| 1    |    |   | Cyclohexane, 1,2,3-trimethyl- | 126 | C9H18   | 001678-97-3 | 27   |
| 2    |    |   | 1-Hexene, 3,3-dimethyl-       | 112 | C8H16   | 003404-77-1 | 25   |
| 3    |    |   | 3-Ethyl-2-methyl-1-heptene    | 140 | C10H20  | 019780-60-0 | 25   |
| 4    |    |   | 3-Hexene, 3-methyl-, (Z)-     | 98  | C7H14   | 004914-89-0 | 25   |
| 5    |    |   | 3-Hexene, 2,5-dimethyl-, (E)- | 112 | C8H16   | 000692-70-6 | 18   |



Data Path : Z:\HPCHEM1\BNA\_M\DATA\BM052316\  
Data File : BM005630.D  
Acq On : 24 May 2016 04:18  
Operator : UM/SJ  
Sample : H3086-11RE  
Misc :  
ALS Vial : 16 Sample Multiplier: 1

Instrument :  
BNA\_M  
ClientSampleId :  
JHGH6RE

Quant Method : Z:\HPCHEM1\BNA\_M\METHODS\SOM02.2-EPA-BM052016.M  
Quant Title : SVOA CALIBRATION

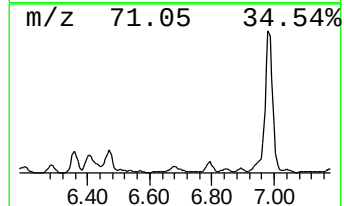
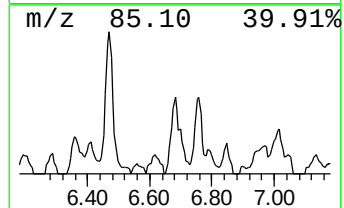
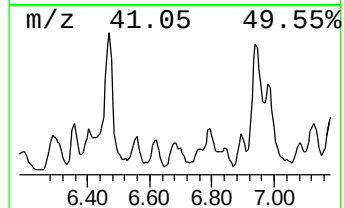
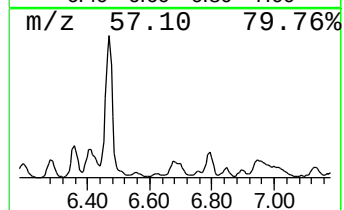
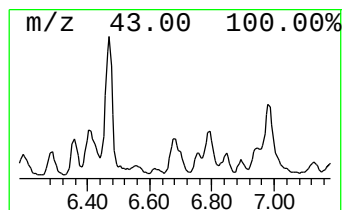
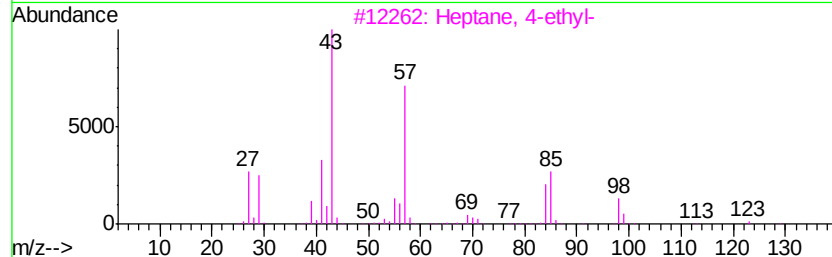
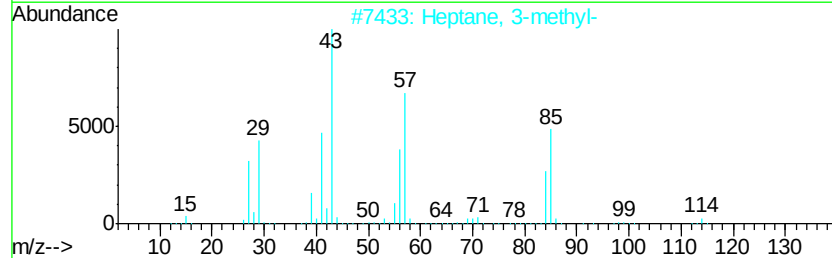
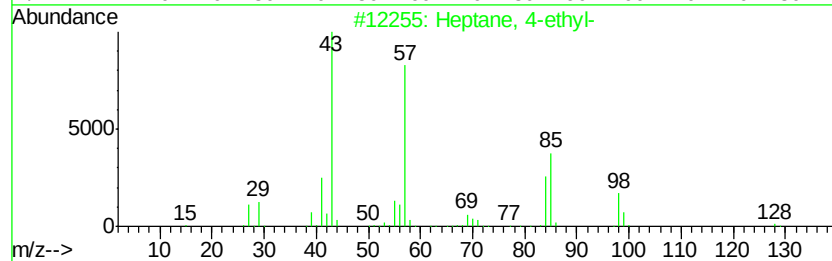
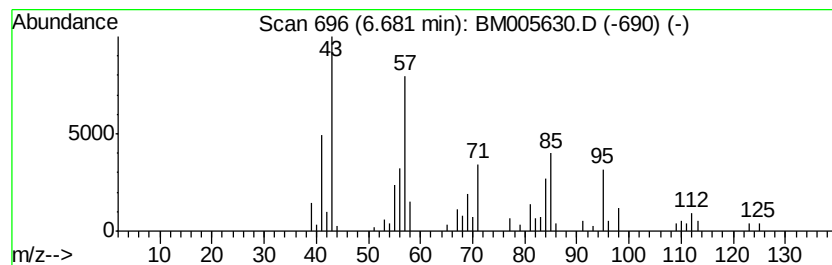
TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 13 (DEL) Alkane: Straight-Chai... Concentration Rank 50

| R.T. | EstConc    | Area   | Relative to ISTD       | R.T. |
|------|------------|--------|------------------------|------|
| 6.68 | 3.15 ng/ul | 178147 | 1,4-Dichlorobenzene-d4 | 7.80 |

| Hit# | of | 5 | Tentative ID          | MW  | MolForm | CAS#        | Qual |
|------|----|---|-----------------------|-----|---------|-------------|------|
| 1    |    |   | Heptane, 4-ethyl-     | 128 | C9H20   | 002216-32-2 | 47   |
| 2    |    |   | Heptane, 3-methyl-    | 114 | C8H18   | 000589-81-1 | 47   |
| 3    |    |   | Heptane, 4-ethyl-     | 128 | C9H20   | 002216-32-2 | 47   |
| 4    |    |   | Hexane, 2,4-dimethyl- | 114 | C8H18   | 000589-43-5 | 43   |
| 5    |    |   | Hexane, 3-ethyl-      | 114 | C8H18   | 000619-99-8 | 43   |





Data Path : Z:\HPCHEM1\BNA\_M\DATA\BM052316\  
Data File : BM005630.D  
Acq On : 24 May 2016 04:18  
Operator : UM/SJ  
Sample : H3086-11RE  
Misc :  
ALS Vial : 16 Sample Multiplier: 1

Instrument :  
BNA\_M  
ClientSampleID :  
JHGH6RE

Quant Method : Z:\HPCHEM1\BNA\_M\METHODS\SOM02.2-EPA-BM052016.M  
Quant Title : SVOA CALIBRATION

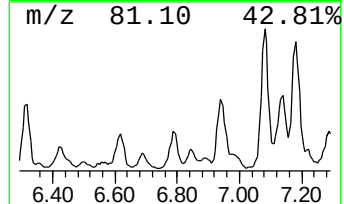
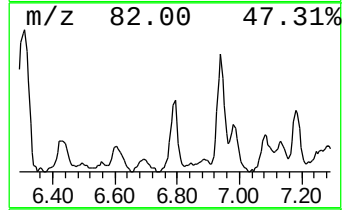
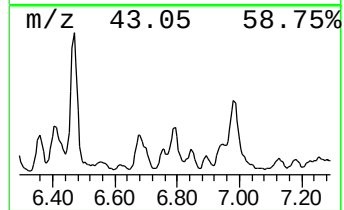
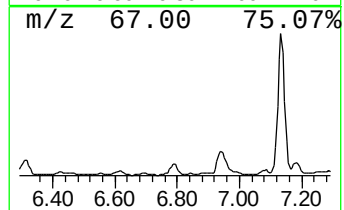
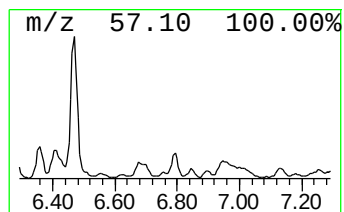
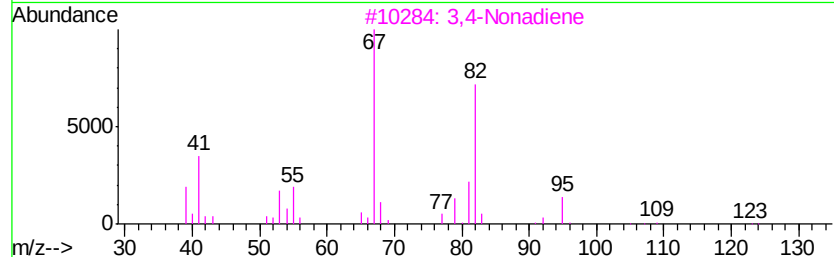
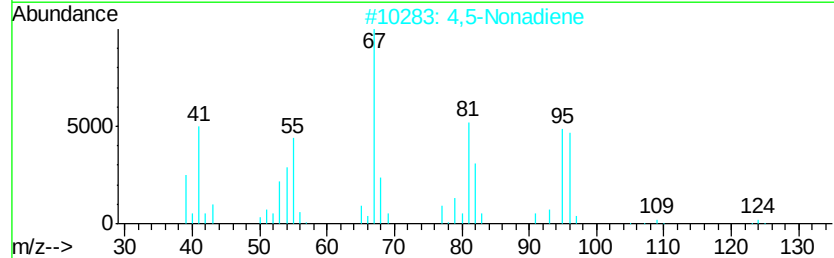
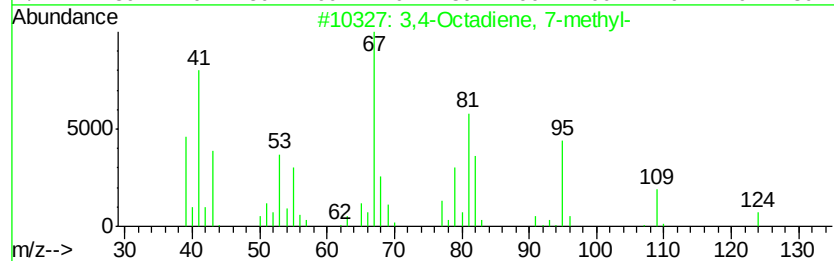
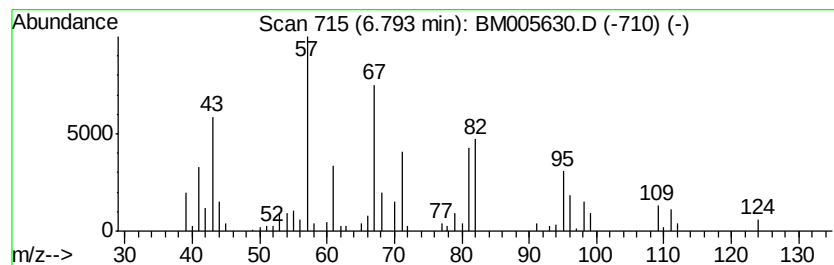
TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 14 (DEL) Alkane: Branched-6.79 Concentration Rank 59

| R.T. | EstConc    | Area   | Relative to ISTD       | R.T. |
|------|------------|--------|------------------------|------|
| 6.79 | 2.44 ng/ul | 138227 | 1,4-Dichlorobenzene-d4 | 7.80 |

| Hit# | of | 5 | Tentative ID                | MW  | MolForm | CAS#         | Qual |
|------|----|---|-----------------------------|-----|---------|--------------|------|
| 1    |    |   | 3,4-Octadiene, 7-methyl-    | 124 | C9H16   | 037050-05-8  | 49   |
| 2    |    |   | 4,5-Nonadiene               | 124 | C9H16   | 000821-74-9  | 43   |
| 3    |    |   | 3,4-Nonadiene               | 124 | C9H16   | 037050-03-6  | 38   |
| 4    |    |   | 4-Methyl-1,3-pentadiene     | 82  | C6H10   | 000926-56-7  | 35   |
| 5    |    |   | trans-1-Butenylcyclopentane | 124 | C9H16   | 1000113-50-9 | 35   |



Data Path : Z:\HPCHEM1\BNA\_M\DATA\BM052316\  
Data File : BM005630.D  
Acq On : 24 May 2016 04:18  
Operator : UM/SJ  
Sample : H3086-11RE  
Misc :  
ALS Vial : 16 Sample Multiplier: 1

Instrument :  
BNA\_M  
ClientSampleId :  
JHGH6RE

Quant Method : Z:\HPCHEM1\BNA\_M\METHODS\SOM02.2-EPA-BM052016.M  
Quant Title : SVOA CALIBRATION

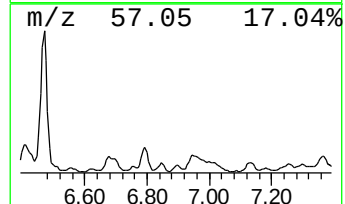
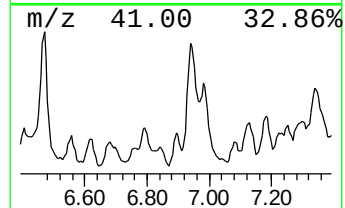
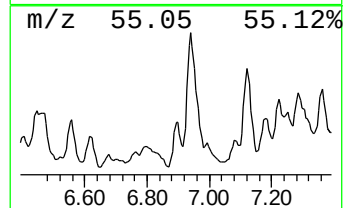
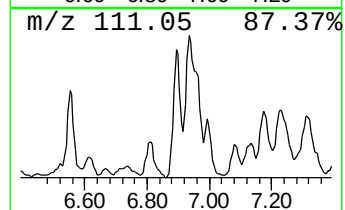
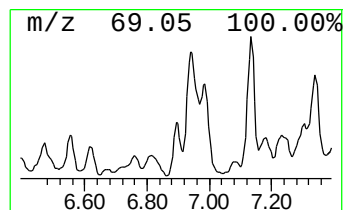
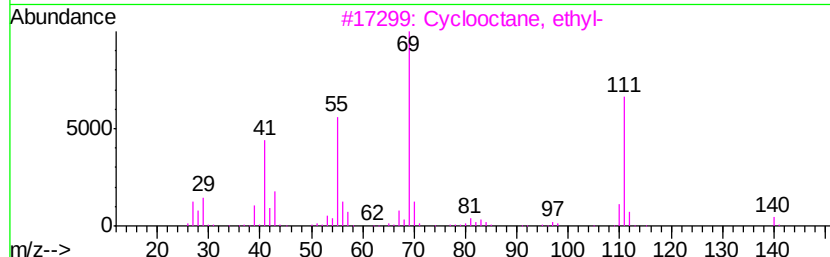
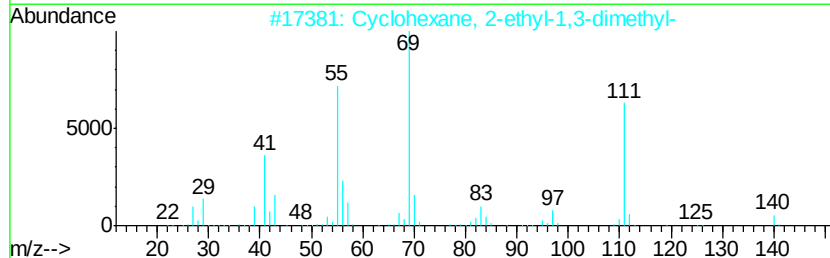
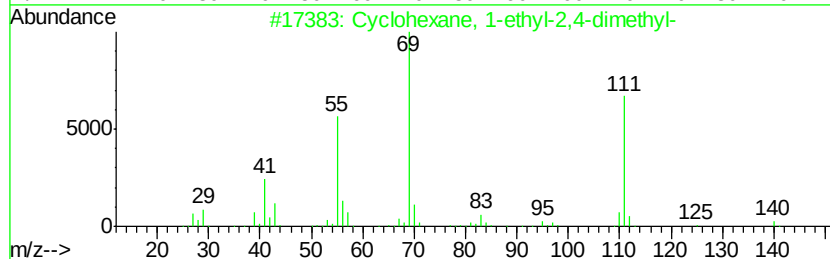
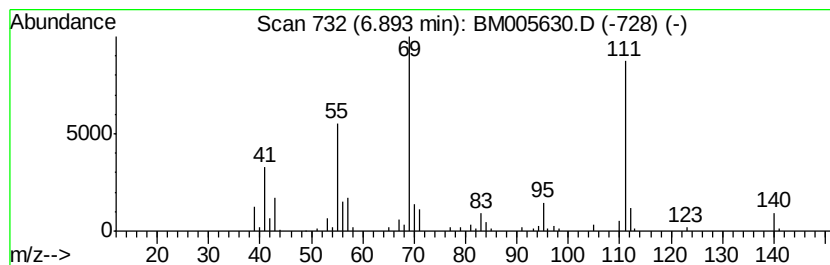
TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 15 (DEL) Alkane: Cyclic-6.89 Concentration Rank 55

| R.T. | EstConc    | Area   | Relative to ISTD       | R.T. |
|------|------------|--------|------------------------|------|
| 6.89 | 2.76 ng/ul | 156041 | 1,4-Dichlorobenzene-d4 | 7.80 |

| Hit# | of | Tentative ID                       | MW  | MolForm | CAS#        | Qual |
|------|----|------------------------------------|-----|---------|-------------|------|
| 1    | 5  | Cyclohexane, 1-ethyl-2,4-dimethyl- | 140 | C10H20  | 061142-69-6 | 90   |
| 2    |    | Cyclohexane, 2-ethyl-1,3-dimethyl- | 140 | C10H20  | 007045-67-2 | 90   |
| 3    |    | Cyclooctane, ethyl-                | 140 | C10H20  | 013152-02-8 | 83   |
| 4    |    | Cyclooctane, ethyl-                | 140 | C10H20  | 013152-02-8 | 80   |
| 5    |    | Cyclohexane, 1,3,5-trimethyl-      | 126 | C9H18   | 001839-63-0 | 72   |



Data Path : Z:\HPCHEM1\BNA\_M\DATA\BM052316\  
Data File : BM005630.D  
Acq On : 24 May 2016 04:18  
Operator : UM/SJ  
Sample : H3086-11RE  
Misc :  
ALS Vial : 16 Sample Multiplier: 1

Instrument :  
BNA\_M  
ClientSampleId :  
JHGH6RE

Quant Method : Z:\HPCHEM1\BNA\_M\METHODS\SOM02.2-EPA-BM052016.M  
Quant Title : SVOA CALIBRATION

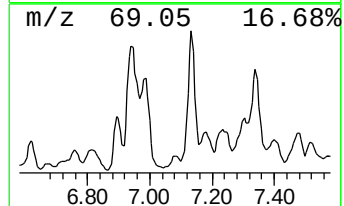
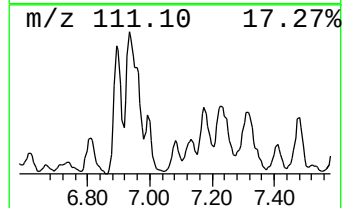
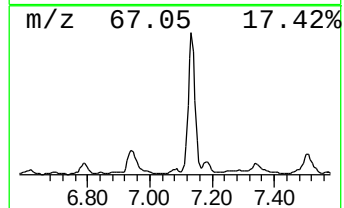
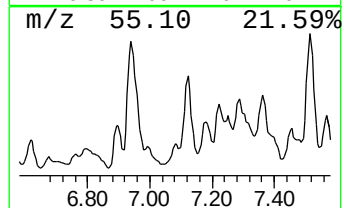
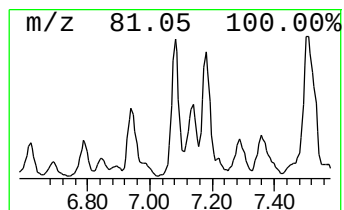
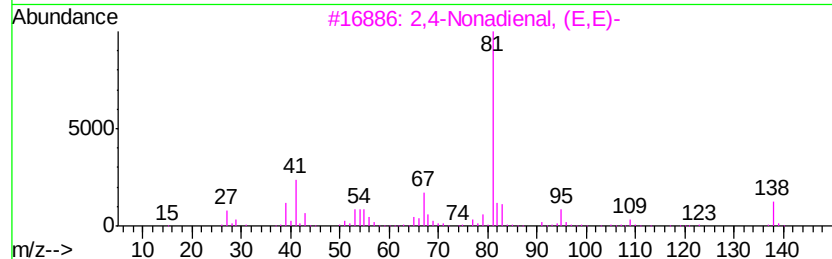
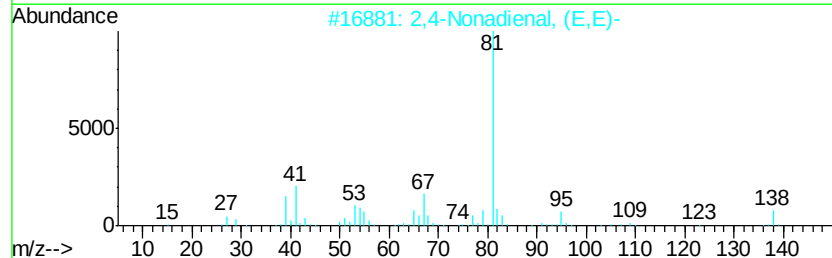
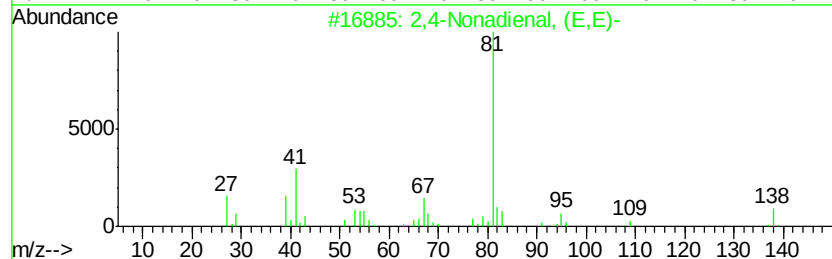
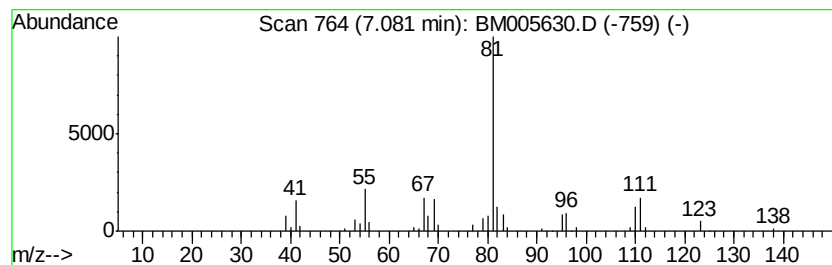
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TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 16 2,4-Nonadienal, (E,E)- Concentration Rank 62

| R.T. | EstConc    | Area   | Relative to ISTD       | R.T. |
|------|------------|--------|------------------------|------|
| 7.08 | 2.31 ng/ul | 130557 | 1,4-Dichlorobenzene-d4 | 7.80 |

| Hit# | of | 5 | Tentative ID           | MW  | MolForm | CAS#        | Qual |
|------|----|---|------------------------|-----|---------|-------------|------|
| 1    |    |   | 2,4-Nonadienal, (E,E)- | 138 | C9H14O  | 005910-87-2 | 58   |
| 2    |    |   | 2,4-Nonadienal, (E,E)- | 138 | C9H14O  | 005910-87-2 | 53   |
| 3    |    |   | 2,4-Nonadienal, (E,E)- | 138 | C9H14O  | 005910-87-2 | 53   |
| 4    |    |   | 2,4-Nonadienal         | 138 | C9H14O  | 006750-03-4 | 42   |
| 5    |    |   | Cyclohexene, 1-ethyl-  | 110 | C8H14   | 001453-24-3 | 25   |



Data Path : Z:\HPCHEM1\BNA\_M\DATA\BM052316\  
Data File : BM005630.D  
Acq On : 24 May 2016 04:18  
Operator : UM/SJ  
Sample : H3086-11RE  
Misc :  
ALS Vial : 16 Sample Multiplier: 1

Instrument :  
BNA\_M  
ClientSampleId :  
JHG6RE

Quant Method : Z:\HPCHEM1\BNA\_M\METHODS\SOM02.2-EPA-BM052016.M  
Quant Title : SVOA CALIBRATION

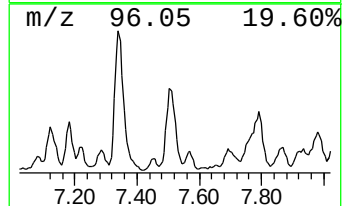
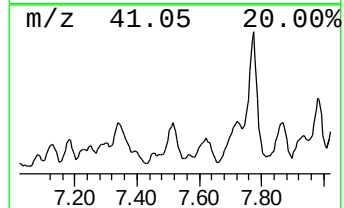
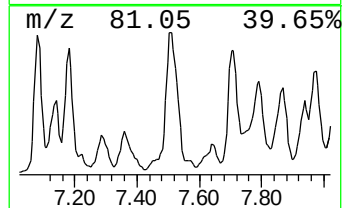
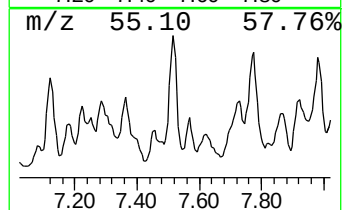
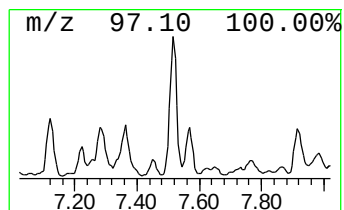
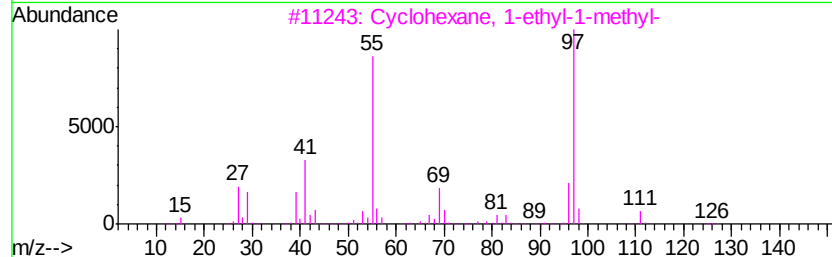
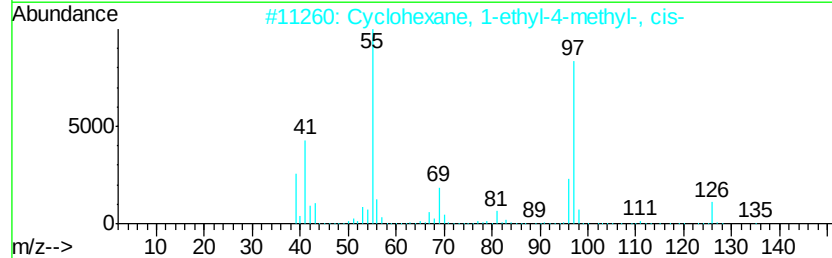
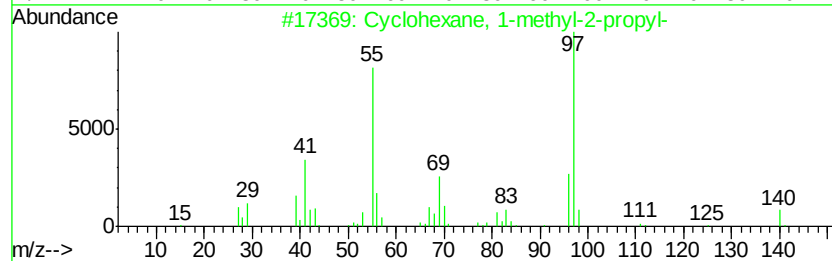
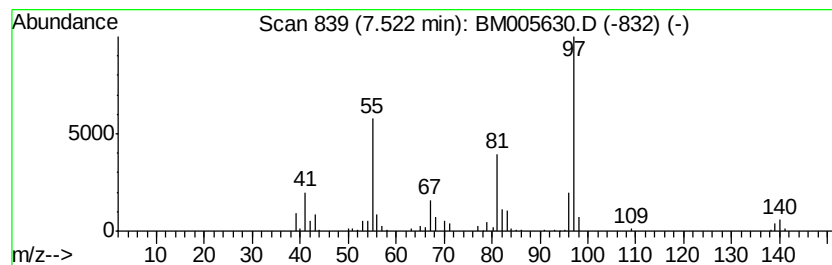
TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 17 (DEL) Alkane: Cyclic-7.52 Concentration Rank 25

| R.T. | EstConc    | Area   | Relative to ISTD       | R.T. |
|------|------------|--------|------------------------|------|
| 7.52 | 8.74 ng/ul | 494711 | 1,4-Dichlorobenzene-d4 | 7.80 |

| Hit# | of | Tentative ID                        | MW  | MolForm | CAS#        | Qual |
|------|----|-------------------------------------|-----|---------|-------------|------|
| 1    | 5  | Cyclohexane, 1-methyl-2-propyl-     | 140 | C10H20  | 004291-79-6 | 64   |
| 2    |    | Cyclohexane, 1-ethyl-4-methyl-, ... | 126 | C9H18   | 004926-78-7 | 59   |
| 3    |    | Cyclohexane, 1-ethyl-1-methyl-      | 126 | C9H18   | 004926-90-3 | 59   |
| 4    |    | Cyclohexane, 1-ethyl-1-methyl-      | 126 | C9H18   | 004926-90-3 | 59   |
| 5    |    | Ethanone, 1-(1-methylcyclohexyl)-   | 140 | C9H16O  | 002890-62-2 | 53   |



Data Path : Z:\HPCHEM1\BNA\_M\DATA\BM052316\  
Data File : BM005630.D  
Acq On : 24 May 2016 04:18  
Operator : UM/SJ  
Sample : H3086-11RE  
Misc :  
ALS Vial : 16 Sample Multiplier: 1

Instrument :  
BNA\_M  
ClientSampled :  
JHGH6RE

Quant Method : Z:\HPCHEM1\BNA\_M\METHODS\SOM02.2-EPA-BM052016.M  
Quant Title : SVOA CALIBRATION

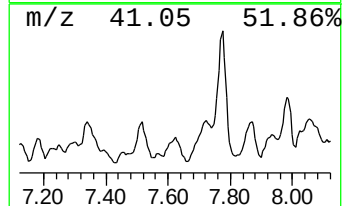
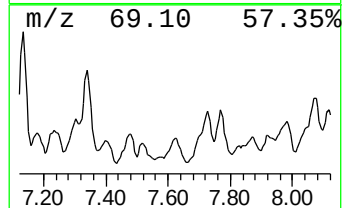
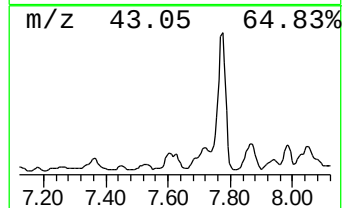
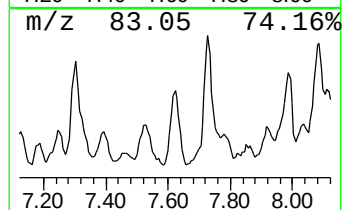
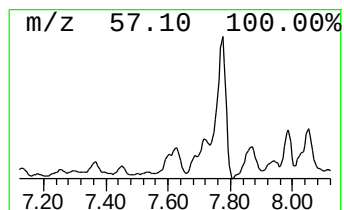
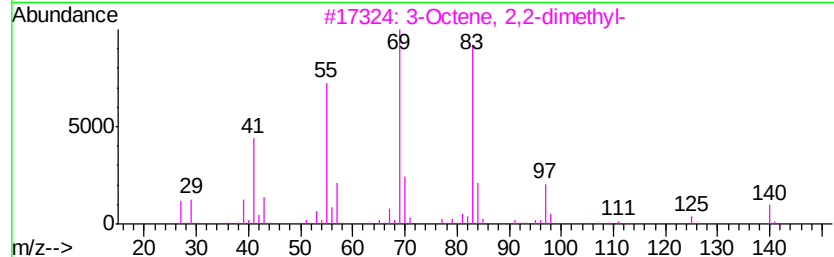
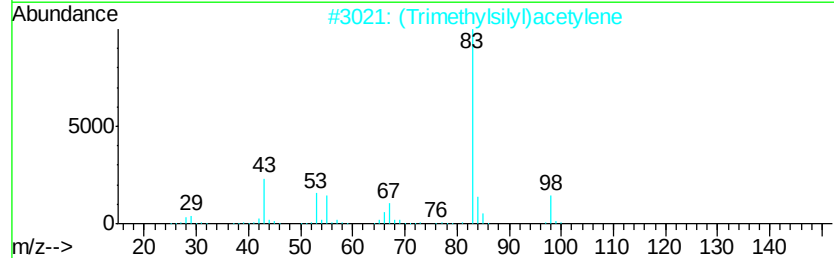
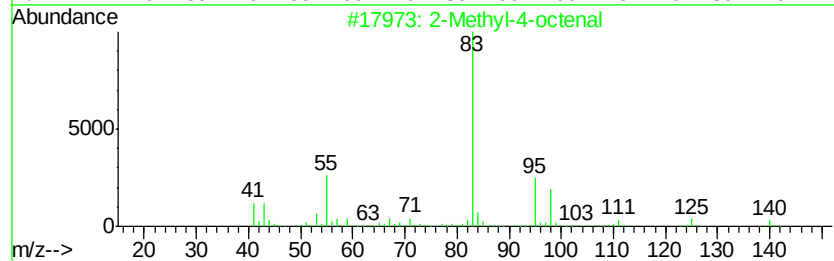
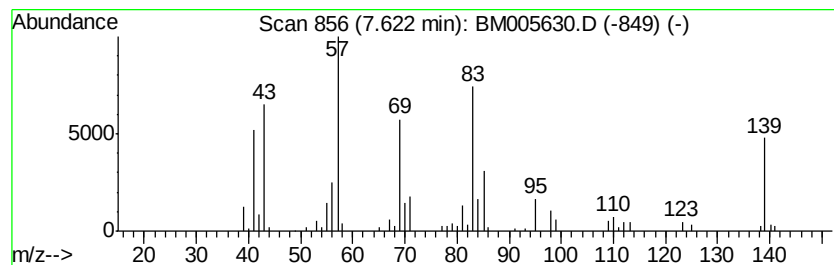
TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 18 unknown-01 Concentration Rank 41

| R.T. | EstConc    | Area   | Relative to ISTD       | R.T. |
|------|------------|--------|------------------------|------|
| 7.62 | 4.84 ng/ul | 273700 | 1,4-Dichlorobenzene-d4 | 7.80 |

| Hit# | of | Tentative ID                 | MW  | MolForm | CAS#        | Qual |
|------|----|------------------------------|-----|---------|-------------|------|
| 1    | 5  | 2-Methyl-4-octenal           | 140 | C9H16O  | 030390-58-0 | 38   |
| 2    |    | (Trimethylsilyl)acetylene    | 98  | C5H10Si | 001066-54-2 | 35   |
| 3    |    | 3-Octene, 2,2-dimethyl-      | 140 | C10H20  | 086869-76-3 | 35   |
| 4    |    | (Trimethylsilyl)acetylene    | 98  | C5H10Si | 001066-54-2 | 35   |
| 5    |    | 2,6-Octadiene, 2,4-dimethyl- | 138 | C10H18  | 063843-03-8 | 27   |



Data Path : Z:\HPCHEM1\BNA\_M\DATA\BM052316\  
Data File : BM005630.D  
Acq On : 24 May 2016 04:18  
Operator : UM/SJ  
Sample : H3086-11RE  
Misc :  
ALS Vial : 16 Sample Multiplier: 1

Instrument :  
BNA\_M  
ClientSampleId :  
JHGH6RE

Quant Method : Z:\HPCHEM1\BNA\_M\METHODS\SOM02.2-EPA-BM052016.M  
Quant Title : SVOA CALIBRATION

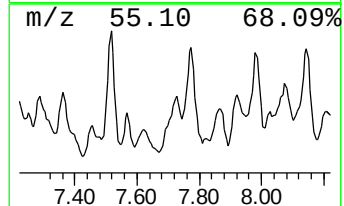
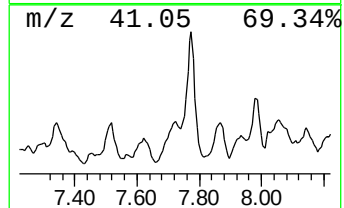
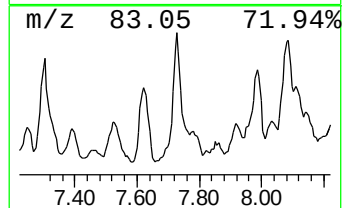
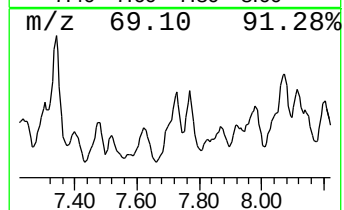
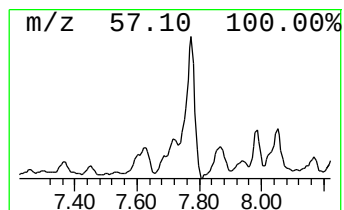
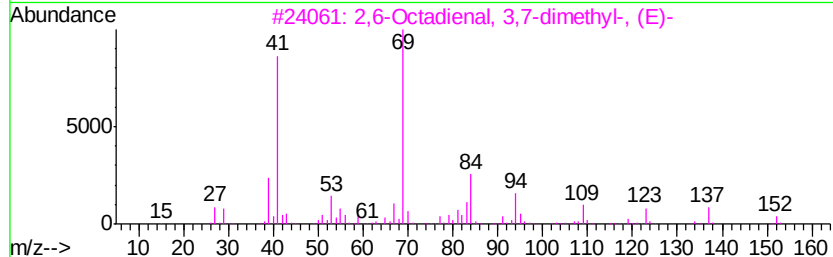
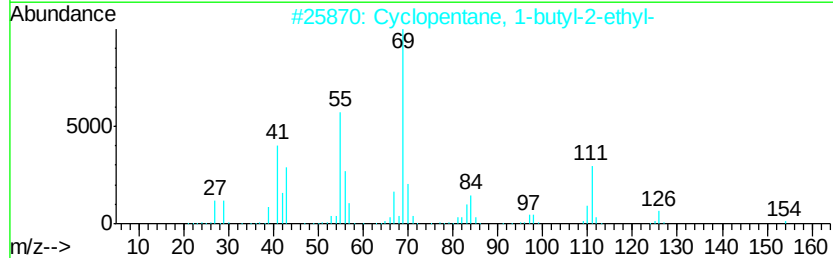
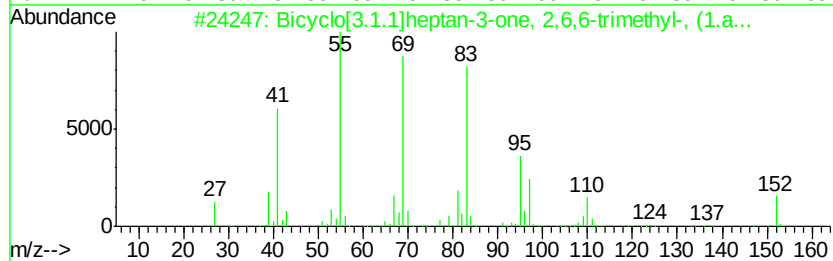
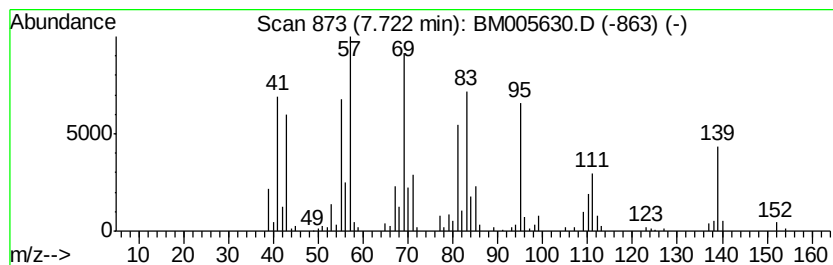
TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 19 unknown-02 Concentration Rank 20

| R.T. | EstConc     | Area   | Relative to ISTD       | R.T. |
|------|-------------|--------|------------------------|------|
| 7.72 | 10.94 ng/ul | 619176 | 1,4-Dichlorobenzene-d4 | 7.80 |

| Hit# | of | Tentative ID                        | MW  | MolForm | CAS#        | Qual |
|------|----|-------------------------------------|-----|---------|-------------|------|
| 1    | 5  | Bicyclo[3.1.1]heptan-3-one, 2,6,... | 152 | C10H16O | 015358-88-0 | 47   |
| 2    |    | Cyclopentane, 1-butyl-2-ethyl-      | 154 | C11H22  | 072993-32-9 | 27   |
| 3    |    | 2,6-Octadienal, 3,7-dimethyl-, (E)- | 152 | C10H16O | 000141-27-5 | 25   |
| 4    |    | 2,6-Octadienal, 3,7-dimethyl-       | 152 | C10H16O | 005392-40-5 | 25   |
| 5    |    | 2-Pentene, 4,4'-oxybis-             | 154 | C10H18O | 052867-34-2 | 22   |



Data Path : Z:\HPCHEM1\BNA\_M\DATA\BM052316\  
Data File : BM005630.D  
Acq On : 24 May 2016 04:18  
Operator : UM/SJ  
Sample : H3086-11RE  
Misc :  
ALS Vial : 16 Sample Multiplier: 1

Instrument :  
BNA\_M  
ClientSampleId :  
JHGH6RE

Quant Method : Z:\HPCHEM1\BNA\_M\METHODS\SOM02.2-EPA-BM052016.M  
Quant Title : SVOA CALIBRATION

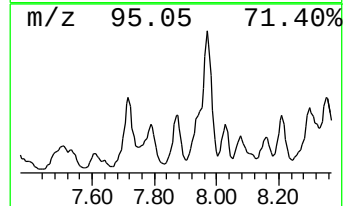
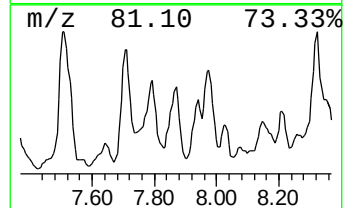
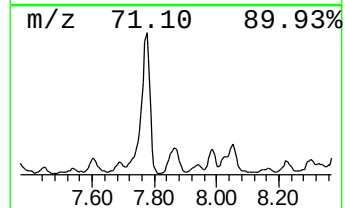
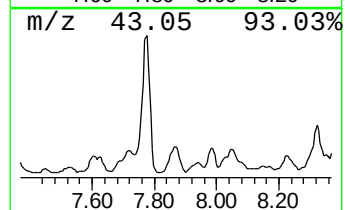
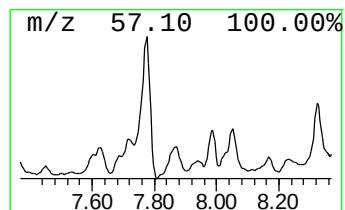
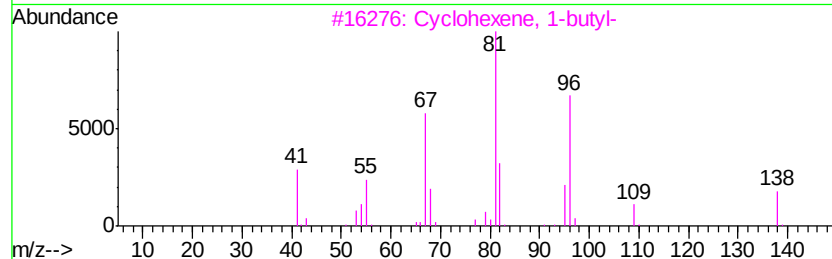
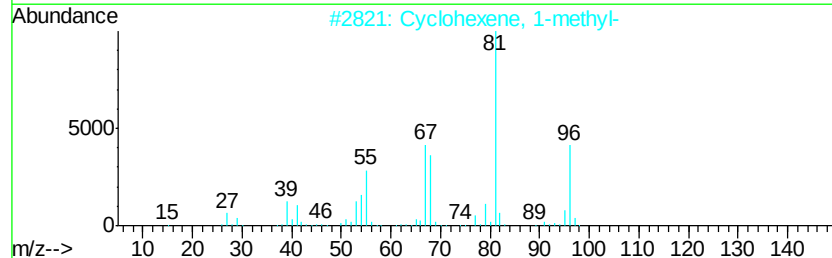
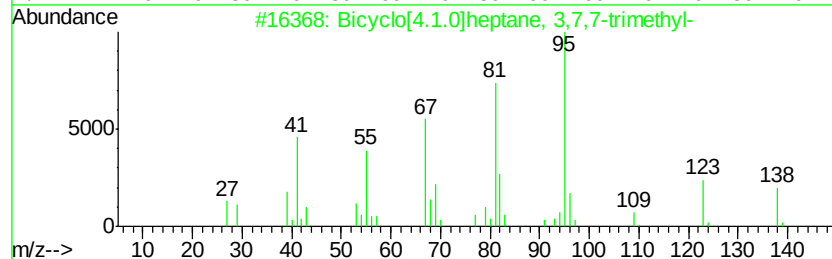
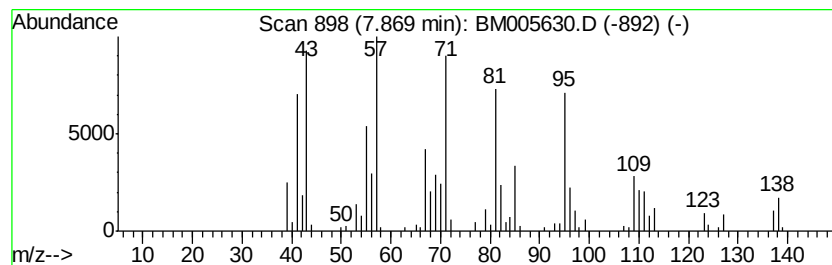
TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 20 (DEL) Alkane: Branched-7.87 Concentration Rank 33

| R.T. | EstConc    | Area   | Relative to ISTD       | R.T. |
|------|------------|--------|------------------------|------|
| 7.87 | 6.67 ng/ul | 377750 | 1,4-Dichlorobenzene-d4 | 7.80 |

| Hit# | of | 5 | Tentative ID                        | MW  | MolForm | CAS#        | Qual |
|------|----|---|-------------------------------------|-----|---------|-------------|------|
| 1    |    |   | Bicyclo[4.1.0]heptane, 3,7,7-tri... | 138 | C10H18  | 000554-59-6 | 45   |
| 2    |    |   | Cyclohexene, 1-methyl-              | 96  | C7H12   | 000591-49-1 | 30   |
| 3    |    |   | Cyclohexene, 1-butyl-               | 138 | C10H18  | 003282-53-9 | 30   |
| 4    |    |   | Cyclohexene, 3-butyl-               | 138 | C10H18  | 003983-07-1 | 25   |
| 5    |    |   | Cyclohexane, 1-methyl-4-(1-methy... | 138 | C10H18  | 001124-25-0 | 25   |



Data Path : Z:\HPCHEM1\BNA\_M\DATA\BM052316\  
Data File : BM005630.D  
Acq On : 24 May 2016 04:18  
Operator : UM/SJ  
Sample : H3086-11RE  
Misc :  
ALS Vial : 16 Sample Multiplier: 1

Instrument :  
BNA\_M  
ClientSampleId :  
JHGH6RE

Quant Method : Z:\HPCHEM1\BNA\_M\METHODS\SOM02.2-EPA-BM052016.M  
Quant Title : SVOA CALIBRATION

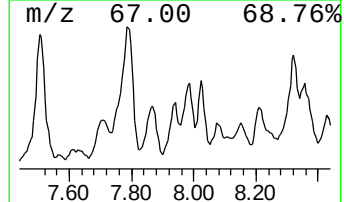
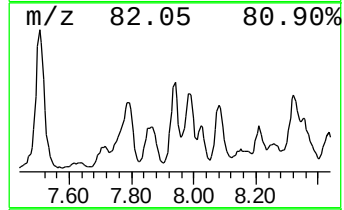
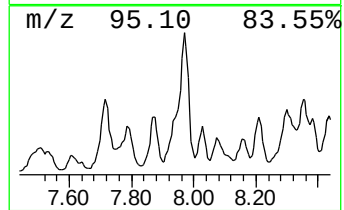
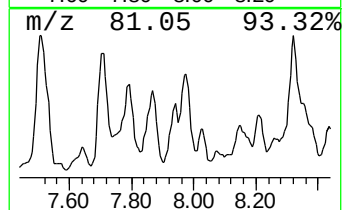
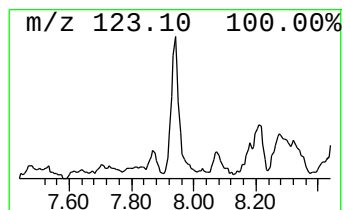
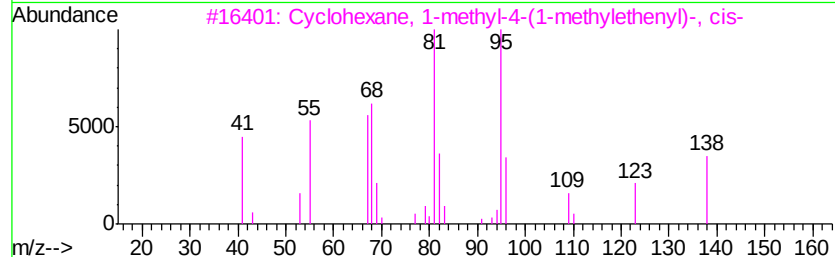
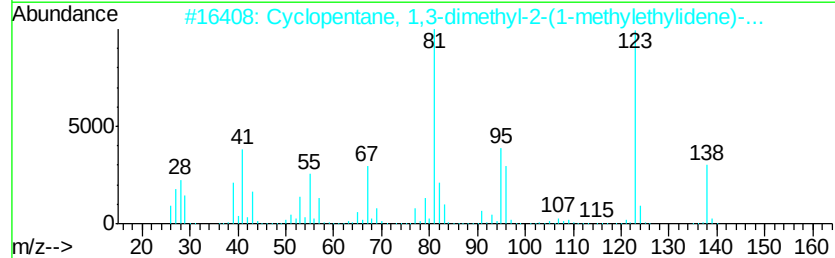
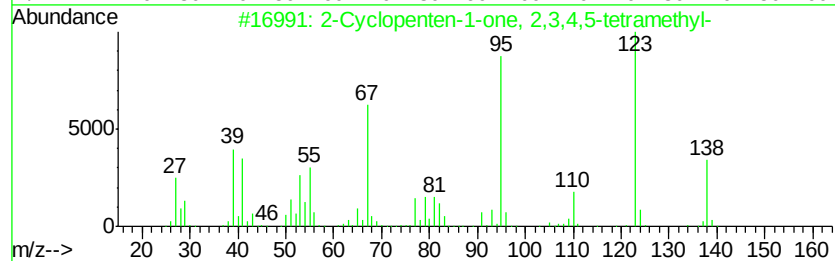
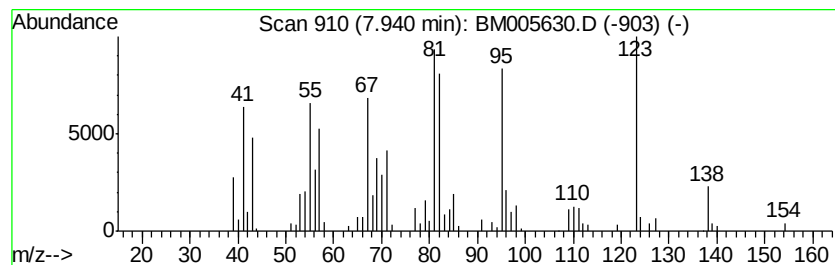
TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 21 2-Cyclopenten-1-one, 2,3,4,... Concentration Rank 36

| R.T. | EstConc    | Area   | Relative to ISTD       | R.T. |
|------|------------|--------|------------------------|------|
| 7.94 | 5.68 ng/ul | 321714 | 1,4-Dichlorobenzene-d4 | 7.80 |

| Hit# | of | 5 | Tentative ID                        | MW  | MolForm | CAS#         | Qual |
|------|----|---|-------------------------------------|-----|---------|--------------|------|
| 1    |    |   | 2-Cyclopenten-1-one, 2,3,4,5-tet... | 138 | C9H14O  | 054458-61-6  | 55   |
| 2    |    |   | Cyclopentane, 1,3-dimethyl-2-(1-... | 138 | C10H18  | 061142-30-1  | 46   |
| 3    |    |   | Cyclohexane, 1-methyl-4-(1-methy... | 138 | C10H18  | 001879-07-8  | 46   |
| 4    |    |   | 3-Menthene                          | 138 | C10H18  | 1000118-83-1 | 46   |
| 5    |    |   | Naphthalene, decahydro-, trans-     | 138 | C10H18  | 000493-02-7  | 43   |





Data Path : Z:\HPCHEM1\BNA\_M\DATA\BM052316\  
Data File : BM005630.D  
Acq On : 24 May 2016 04:18  
Operator : UM/SJ  
Sample : H3086-11RE  
Misc :  
ALS Vial : 16 Sample Multiplier: 1

Instrument :  
BNA\_M  
ClientSampleId :  
JHGH6RE

Quant Method : Z:\HPCHEM1\BNA\_M\METHODS\SOM02.2-EPA-BM052016.M  
Quant Title : SVOA CALIBRATION

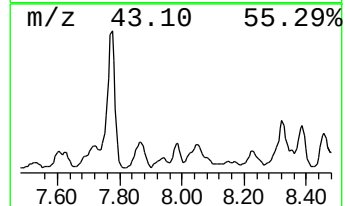
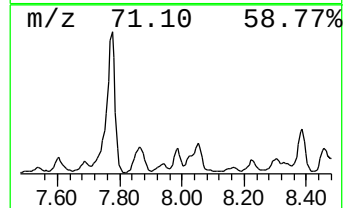
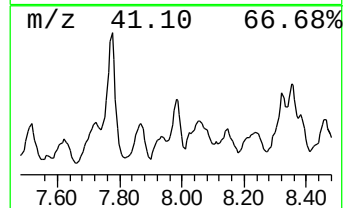
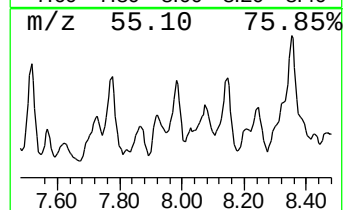
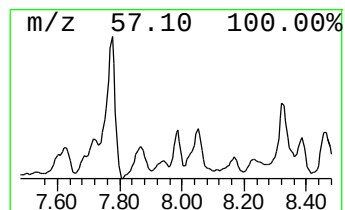
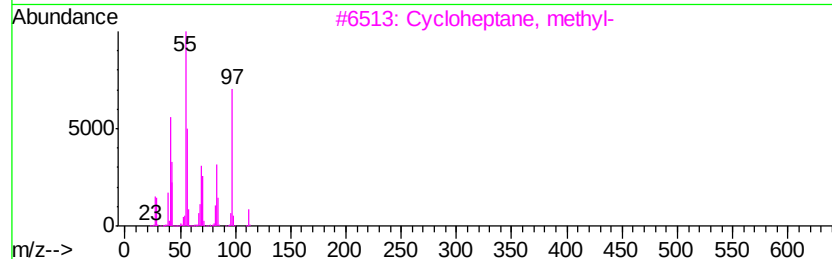
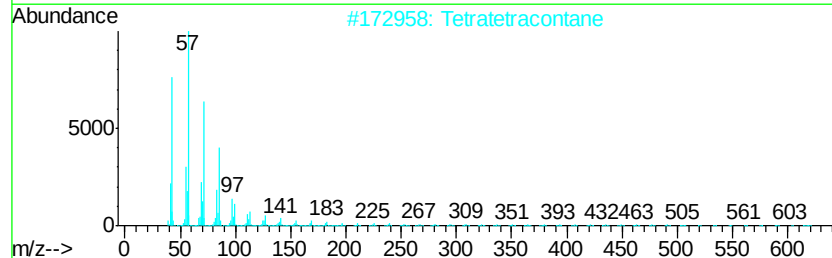
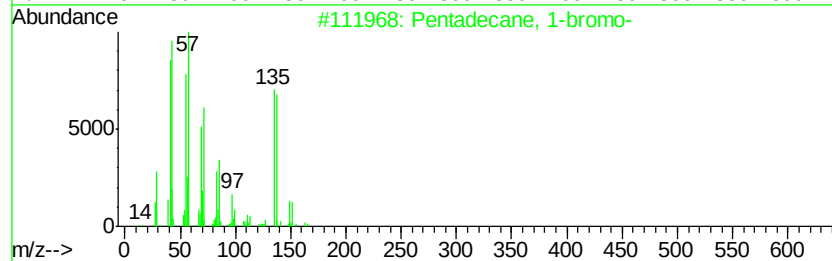
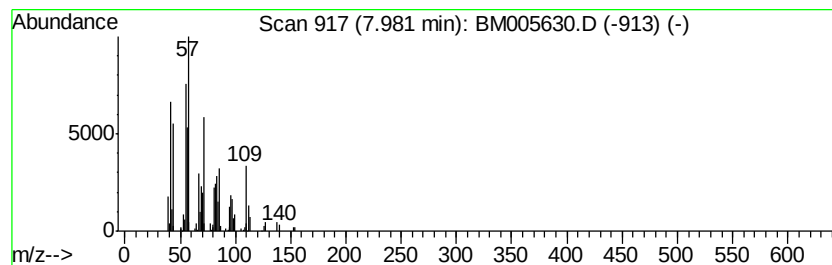
TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 22 unknown-03 Concentration Rank 31

| R.T. | EstConc    | Area   | Relative to ISTD       | R.T. |
|------|------------|--------|------------------------|------|
| 7.98 | 6.97 ng/ul | 394580 | 1,4-Dichlorobenzene-d4 | 7.80 |

| Hit# | of | 5 | Tentative ID                  | MW  | MolForm  | CAS#        | Qual |
|------|----|---|-------------------------------|-----|----------|-------------|------|
| 1    |    |   | Pentadecane, 1-bromo-         | 290 | C15H31Br | 000629-72-1 | 49   |
| 2    |    |   | Tetratetracontane             | 619 | C44H90   | 007098-22-8 | 38   |
| 3    |    |   | Cycloheptane, methyl-         | 112 | C8H16    | 004126-78-7 | 38   |
| 4    |    |   | Octane, 3-ethyl-2,7-dimethyl- | 170 | C12H26   | 062183-55-5 | 35   |
| 5    |    |   | Cyclooctane, 1,5-dimethyl-    | 140 | C10H20   | 021328-57-4 | 30   |



Data Path : Z:\HPCHEM1\BNA\_M\DATA\BM052316\  
Data File : BM005630.D  
Acq On : 24 May 2016 04:18  
Operator : UM/SJ  
Sample : H3086-11RE  
Misc :  
ALS Vial : 16 Sample Multiplier: 1

Instrument :  
BNA\_M  
ClientSampleId :  
JHGH6RE

Quant Method : Z:\HPCHEM1\BNA\_M\METHODS\SOM02.2-EPA-BM052016.M  
Quant Title : SVOA CALIBRATION

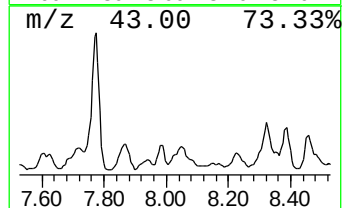
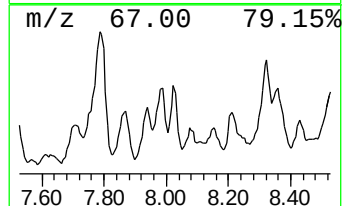
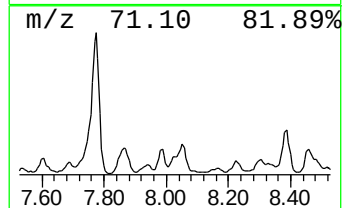
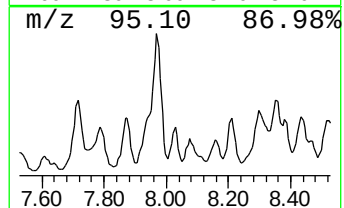
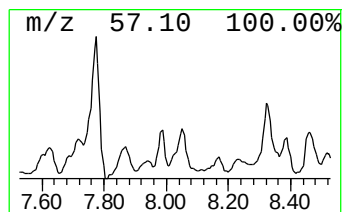
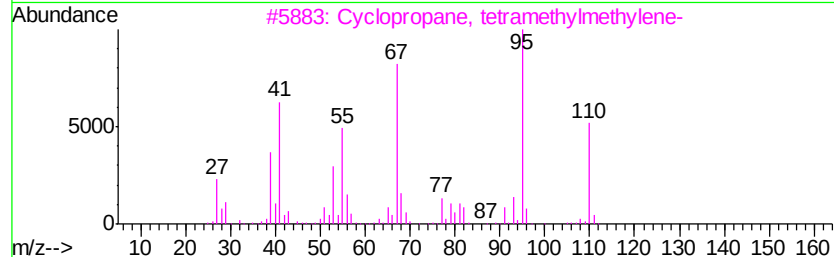
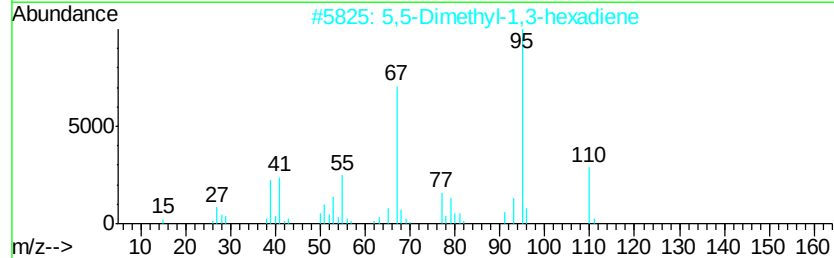
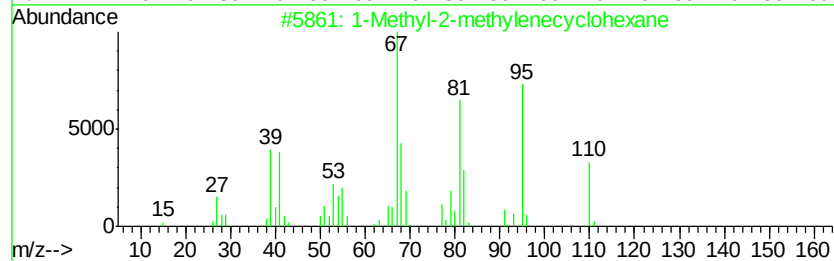
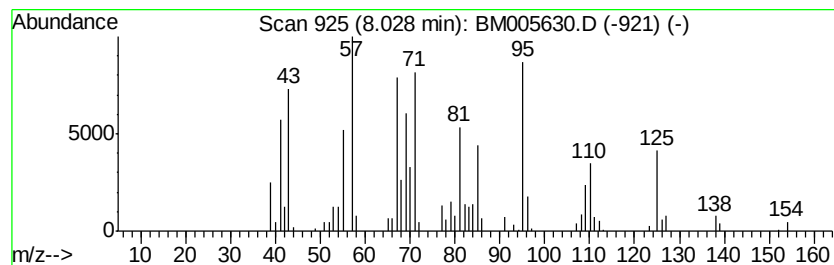
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TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 23 (DEL) Alkane: Branched-8.03 Concentration Rank 61

| R.T. | EstConc    | Area   | Relative to ISTD       | R.T. |
|------|------------|--------|------------------------|------|
| 8.03 | 2.42 ng/ul | 137036 | 1,4-Dichlorobenzene-d4 | 7.80 |

| Hit# | of | 5 | Tentative ID                        | MW  | MolForm | CAS#        | Qual |
|------|----|---|-------------------------------------|-----|---------|-------------|------|
| 1    |    |   | 1-Methyl-2-methylenecyclohexane     | 110 | C8H14   | 002808-75-5 | 52   |
| 2    |    |   | 5,5-Dimethyl-1,3-hexadiene          | 110 | C8H14   | 001515-79-3 | 46   |
| 3    |    |   | Cyclopropane, tetramethylmethylene- | 110 | C8H14   | 054376-39-5 | 35   |
| 4    |    |   | Cyclohexene, 1,2-dimethyl-          | 110 | C8H14   | 001674-10-8 | 30   |
| 5    |    |   | 1-Methylcycloheptene                | 110 | C8H14   | 055308-20-8 | 30   |



Data Path : Z:\HPCHEM1\BNA\_M\DATA\BM052316\  
Data File : BM005630.D  
Acq On : 24 May 2016 04:18  
Operator : UM/SJ  
Sample : H3086-11RE  
Misc :  
ALS Vial : 16 Sample Multiplier: 1

Instrument :  
BNA\_M  
ClientSampleId :  
JHGH6RE

Quant Method : Z:\HPCHEM1\BNA\_M\METHODS\SOM02.2-EPA-BM052016.M  
Quant Title : SVOA CALIBRATION

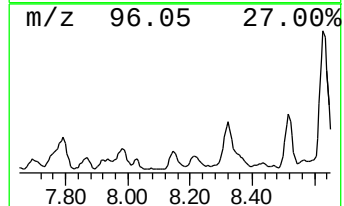
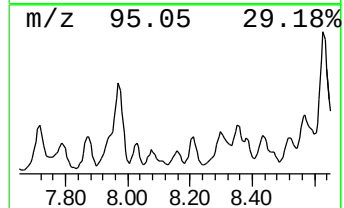
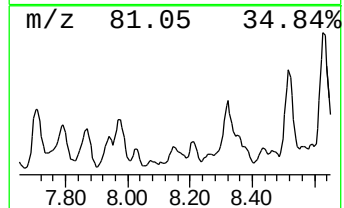
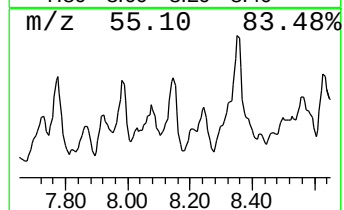
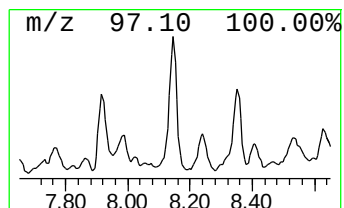
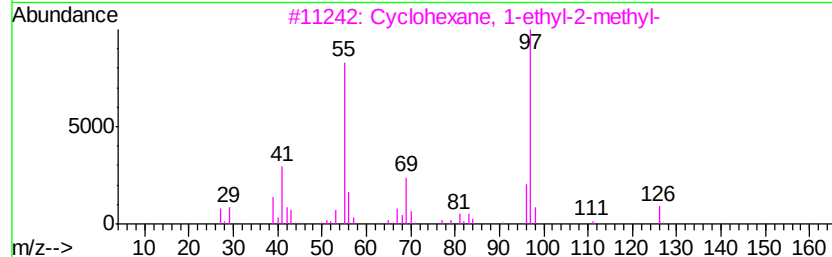
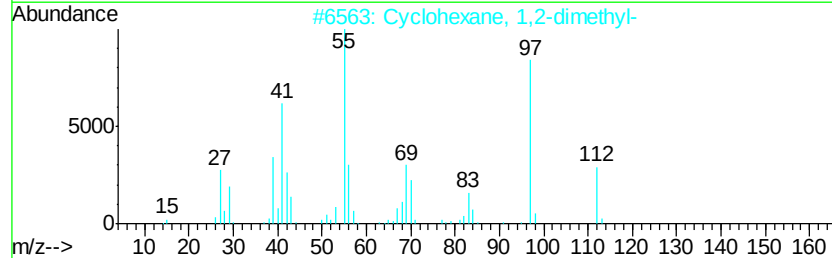
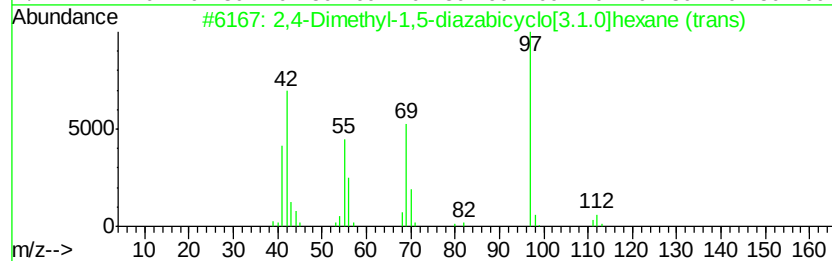
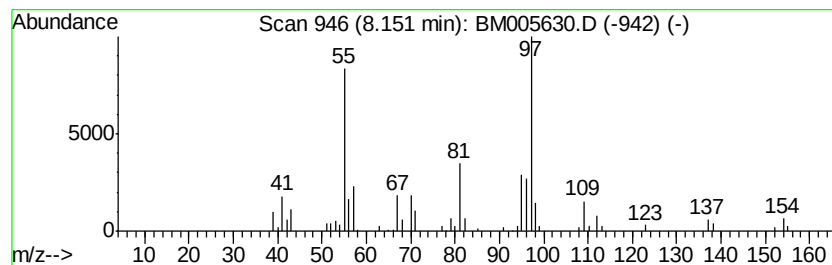
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TIC Integration Parameters: LSCINT.P

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Peak Number 24 2,4-Dimethyl-1,5-diazabicyc... Concentration Rank 47

| R.T. | EstConc    | Area   | Relative to ISTD       | R.T. |
|------|------------|--------|------------------------|------|
| 8.15 | 3.79 ng/ul | 214670 | 1,4-Dichlorobenzene-d4 | 7.80 |

| Hit# | of | 5 | Tentative ID                        | MW  | MolForm | CAS#         | Qual |
|------|----|---|-------------------------------------|-----|---------|--------------|------|
| 1    |    |   | 2,4-Dimethyl-1,5-diazabicyclo[3.... | 112 | C6H12N2 | 1000283-20-9 | 59   |
| 2    |    |   | Cyclohexane, 1,2-dimethyl-          | 112 | C8H16   | 000583-57-3  | 59   |
| 3    |    |   | Cyclohexane, 1-ethyl-2-methyl-      | 126 | C9H18   | 003728-54-9  | 59   |
| 4    |    |   | 2,4-Dimethyl-1,5-diazabicyclo[3.... | 112 | C6H12N2 | 100463-01-2  | 58   |
| 5    |    |   | Cyclohexane, 1-ethyl-1-methyl-      | 126 | C9H18   | 004926-90-3  | 58   |



Data Path : Z:\HPCHEM1\BNA\_M\DATA\BM052316\  
Data File : BM005630.D  
Acq On : 24 May 2016 04:18  
Operator : UM/SJ  
Sample : H3086-11RE  
Misc :  
ALS Vial : 16 Sample Multiplier: 1

Instrument :  
BNA\_M  
ClientSampleId :  
JHGH6RE

Quant Method : Z:\HPCHEM1\BNA\_M\METHODS\SOM02.2-EPA-BM052016.M  
Quant Title : SVOA CALIBRATION

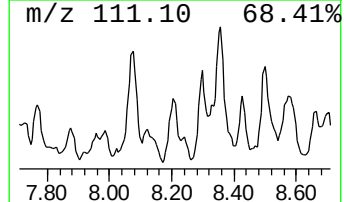
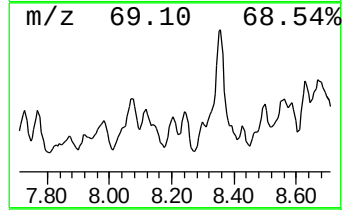
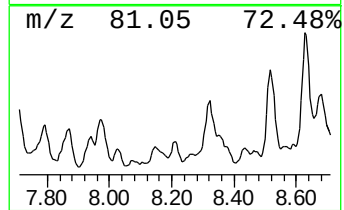
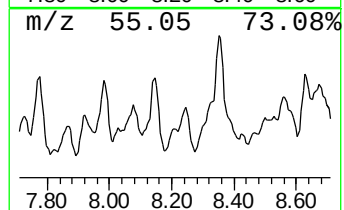
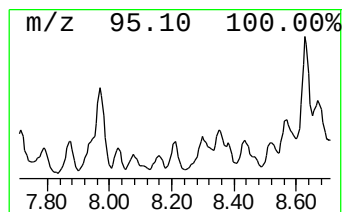
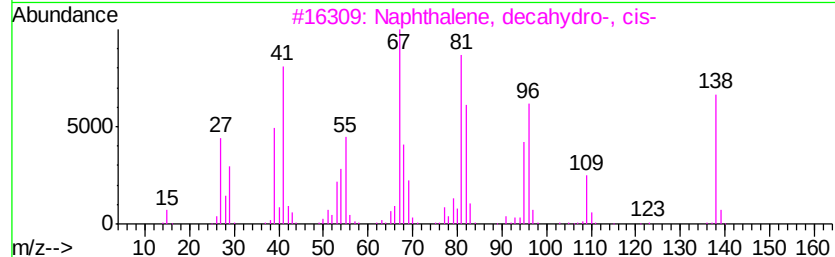
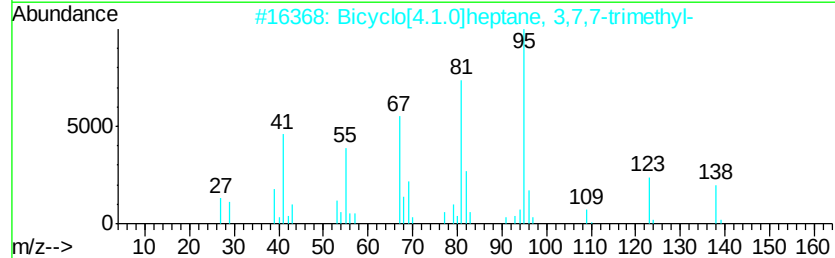
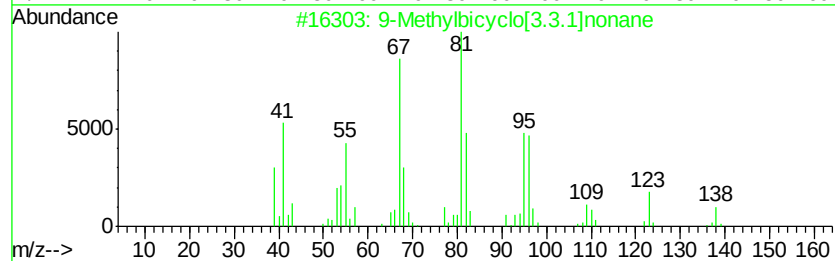
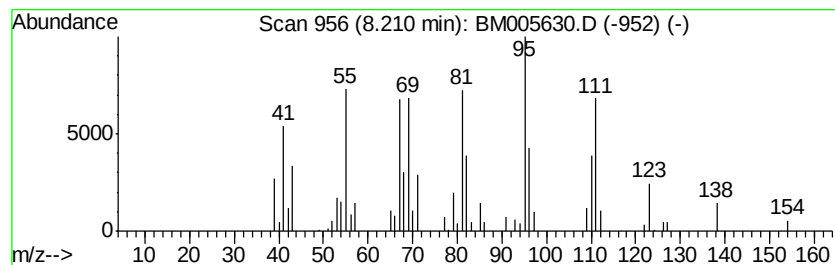
TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 25 (DEL) Alkane: Branched-8.21 Concentration Rank 60

| R.T. | EstConc    | Area   | Relative to ISTD       | R.T. |
|------|------------|--------|------------------------|------|
| 8.21 | 2.44 ng/ul | 138192 | 1,4-Dichlorobenzene-d4 | 7.80 |

| Hit# | of | Tentative ID                        | MW  | MolForm | CAS#        | Qual |
|------|----|-------------------------------------|-----|---------|-------------|------|
| 1    | 5  | 9-Methylbicyclo[3.3.1]nonane        | 138 | C10H18  | 025107-01-1 | 89   |
| 2    |    | Bicyclo[4.1.0]heptane, 3,7,7-tri... | 138 | C10H18  | 000554-59-6 | 53   |
| 3    |    | Naphthalene, decahydro-, cis-       | 138 | C10H18  | 000493-01-6 | 50   |
| 4    |    | Bicyclo[4.1.0]heptane, 3,7,7-tri... | 138 | C10H18  | 006069-97-2 | 49   |
| 5    |    | 1-Methyl-2-methylenecyclohexane     | 110 | C8H14   | 002808-75-5 | 49   |



Data Path : Z:\HPCHEM1\BNA\_M\DATA\BM052316\  
Data File : BM005630.D  
Acq On : 24 May 2016 04:18  
Operator : UM/SJ  
Sample : H3086-11RE  
Misc :  
ALS Vial : 16 Sample Multiplier: 1

Instrument :  
BNA\_M  
ClientSampleId :  
JHGH6RE

Quant Method : Z:\HPCHEM1\BNA\_M\METHODS\SOM02.2-EPA-BM052016.M  
Quant Title : SVOA CALIBRATION

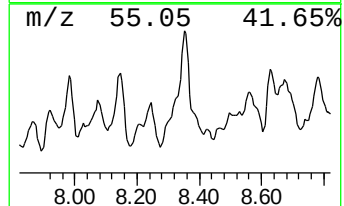
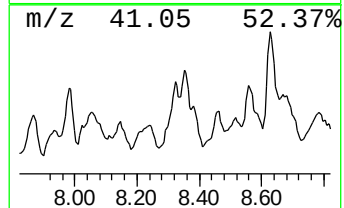
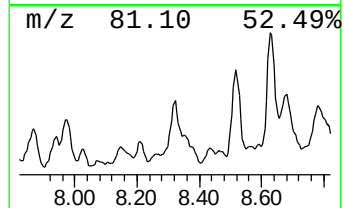
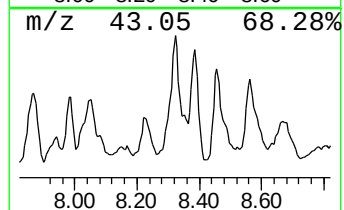
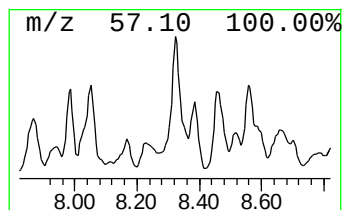
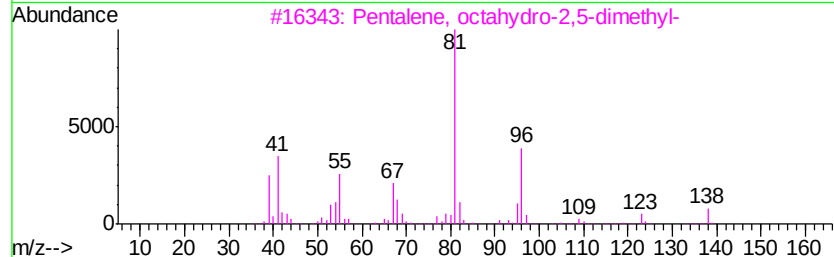
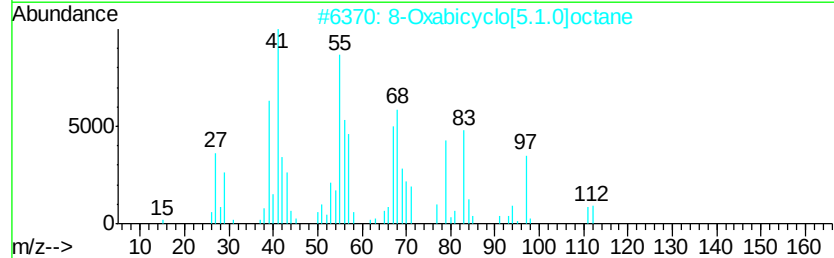
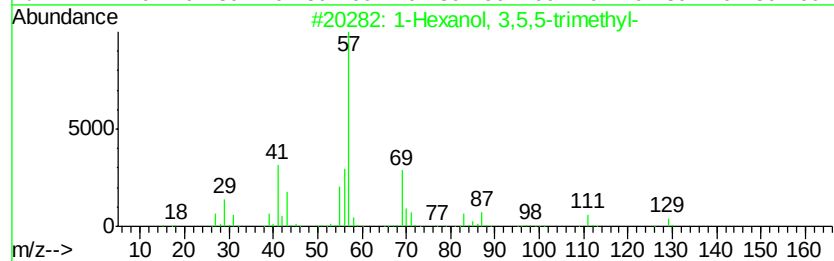
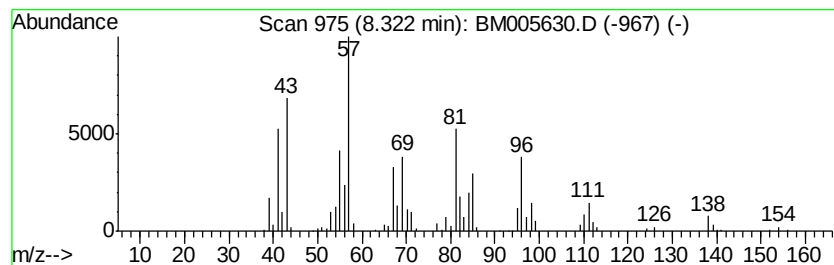
TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 26 unknown-04 Concentration Rank 17

| R.T. | EstConc     | Area   | Relative to ISTD       | R.T. |
|------|-------------|--------|------------------------|------|
| 8.32 | 11.50 ng/ul | 650582 | 1,4-Dichlorobenzene-d4 | 7.80 |

| Hit# | of | 5 | Tentative ID                       | MW  | MolForm | CAS#        | Qual |
|------|----|---|------------------------------------|-----|---------|-------------|------|
| 1    |    |   | 1-Hexanol, 3,5,5-trimethyl-        | 144 | C9H20O  | 003452-97-9 | 22   |
| 2    |    |   | 8-Oxabicyclo[5.1.0]octane          | 112 | C7H12O  | 000286-45-3 | 18   |
| 3    |    |   | Pentalene, octahydro-2,5-dimethyl- | 138 | C10H18  | 028588-55-8 | 18   |
| 4    |    |   | Cyclohexene, 1-pentyl-             | 152 | C11H20  | 015232-85-6 | 18   |
| 5    |    |   | Cyclohexene, 1-methyl-             | 96  | C7H12   | 000591-49-1 | 18   |



Data Path : Z:\HPCHEM1\BNA\_M\DATA\BM052316\  
Data File : BM005630.D  
Acq On : 24 May 2016 04:18  
Operator : UM/SJ  
Sample : H3086-11RE  
Misc :  
ALS Vial : 16 Sample Multiplier: 1

Instrument :  
BNA\_M  
ClientSampleId :  
JHGH6RE

Quant Method : Z:\HPCHEM1\BNA\_M\METHODS\SOM02.2-EPA-BM052016.M  
Quant Title : SVOA CALIBRATION

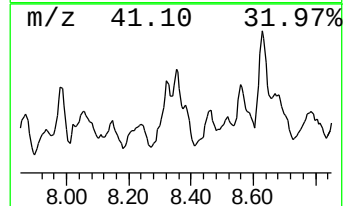
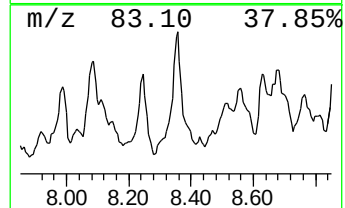
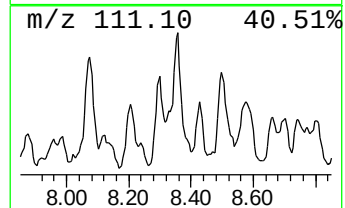
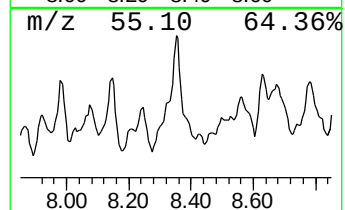
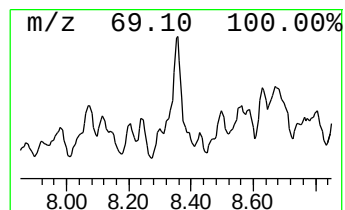
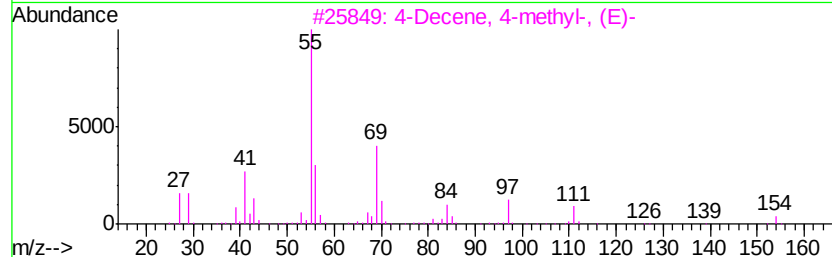
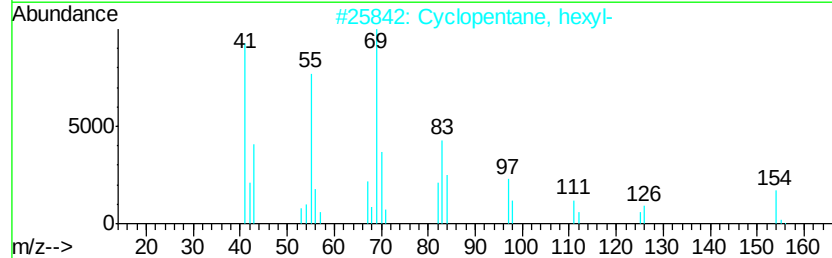
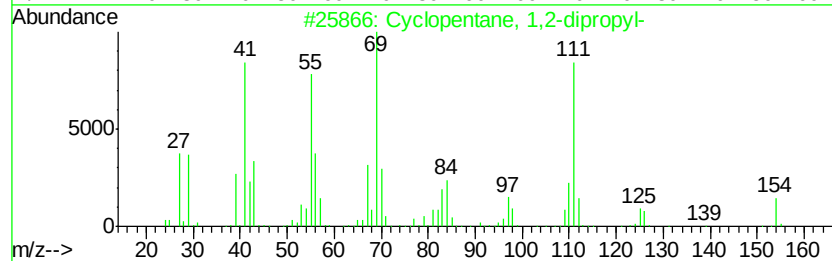
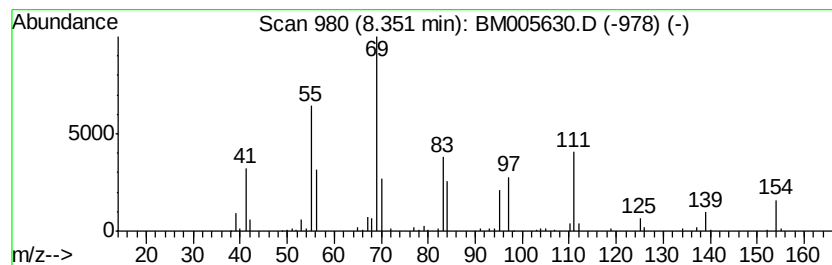
TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 27 (DEL) Alkane: Cyclic-8.35 Concentration Rank 39

| R.T. | EstConc    | Area   | Relative to ISTD       | R.T. |
|------|------------|--------|------------------------|------|
| 8.35 | 5.16 ng/ul | 291787 | 1,4-Dichlorobenzene-d4 | 7.80 |

| Hit# | of | Tentative ID                         | MW  | MolForm | CAS#        | Qual |
|------|----|--------------------------------------|-----|---------|-------------|------|
| 1    | 5  | Cyclopentane, 1,2-dipropyl-          | 154 | C11H22  | 091242-57-8 | 49   |
| 2    |    | Cyclopentane, hexyl-                 | 154 | C11H22  | 004457-00-5 | 49   |
| 3    |    | 4-Decene, 4-methyl-, (E)-            | 154 | C11H22  | 060366-66-7 | 49   |
| 4    |    | 4-Octene, 2,3,7-trimethyl-, [S-(...] | 154 | C11H22  | 052763-13-0 | 47   |
| 5    |    | 4-Octene, 2,3,6-trimethyl-           | 154 | C11H22  | 063830-65-9 | 43   |



Data Path : Z:\HPCHEM1\BNA\_M\DATA\BM052316\  
Data File : BM005630.D  
Acq On : 24 May 2016 04:18  
Operator : UM/SJ  
Sample : H3086-11RE  
Misc :  
ALS Vial : 16 Sample Multiplier: 1

Instrument :  
BNA\_M  
ClientSampleId :  
JHGH6RE

Quant Method : Z:\HPCHEM1\BNA\_M\METHODS\SOM02.2-EPA-BM052016.M  
Quant Title : SVOA CALIBRATION

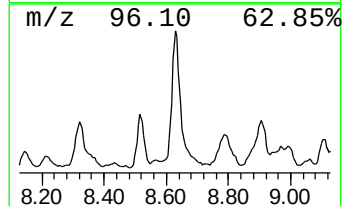
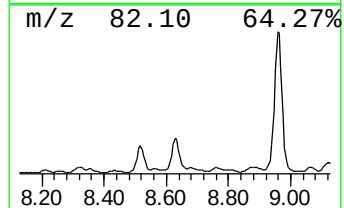
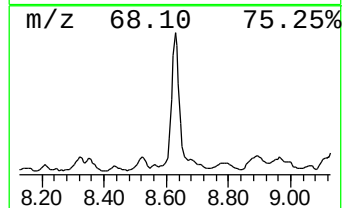
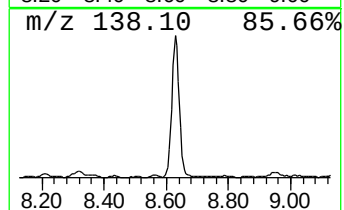
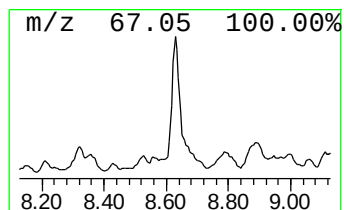
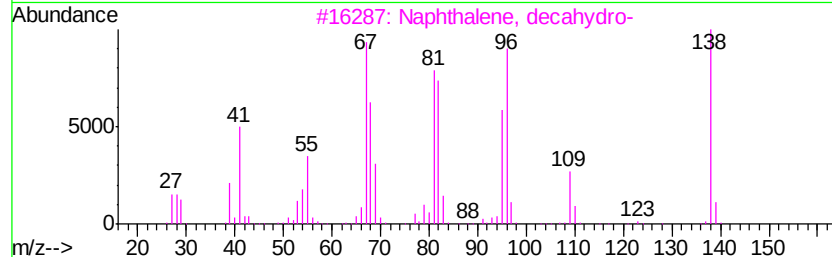
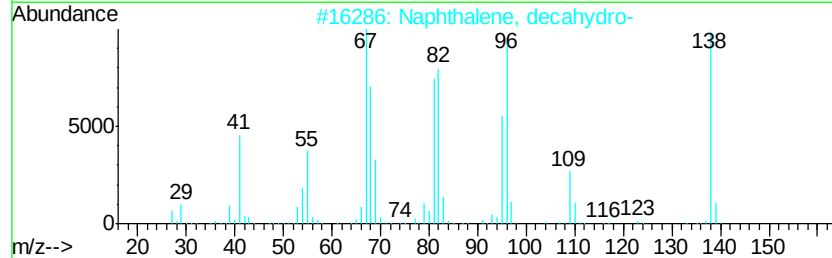
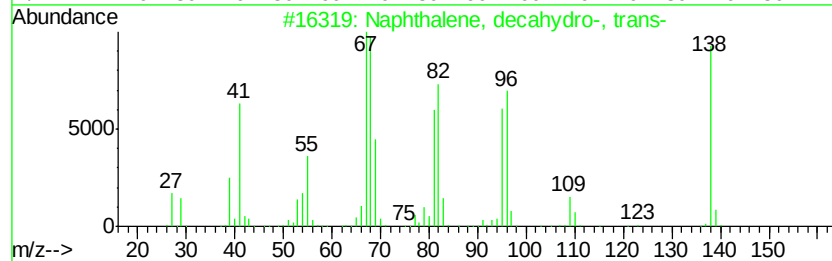
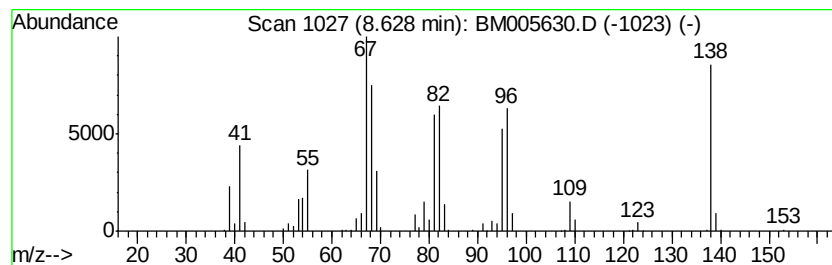
TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 28 (DEL) Alkane: Branched-8.63 Concentration Rank 14

| R.T. | EstConc     | Area   | Relative to ISTD       | R.T. |
|------|-------------|--------|------------------------|------|
| 8.63 | 16.14 ng/ul | 913260 | 1,4-Dichlorobenzene-d4 | 7.80 |

| Hit# | of | Tentative ID                    | MW  | MolForm | CAS#        | Qual |
|------|----|---------------------------------|-----|---------|-------------|------|
| 1    | 5  | Naphthalene, decahydro-, trans- | 138 | C10H18  | 000493-02-7 | 98   |
| 2    |    | Naphthalene, decahydro-         | 138 | C10H18  | 000091-17-8 | 96   |
| 3    |    | Naphthalene, decahydro-         | 138 | C10H18  | 000091-17-8 | 96   |
| 4    |    | Naphthalene, decahydro-, trans- | 138 | C10H18  | 000493-02-7 | 94   |
| 5    |    | Naphthalene, decahydro-, trans- | 138 | C10H18  | 000493-02-7 | 94   |



Data Path : Z:\HPCHEM1\BNA\_M\DATA\BM052316\  
Data File : BM005630.D  
Acq On : 24 May 2016 04:18  
Operator : UM/SJ  
Sample : H3086-11RE  
Misc :  
ALS Vial : 16 Sample Multiplier: 1

Instrument :  
BNA\_M  
ClientSampleId :  
JHGH6RE

Quant Method : Z:\HPCHEM1\BNA\_M\METHODS\SOM02.2-EPA-BM052016.M  
Quant Title : SVOA CALIBRATION

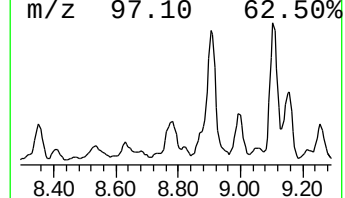
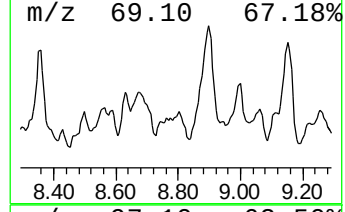
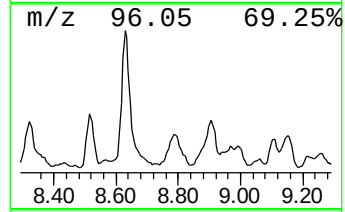
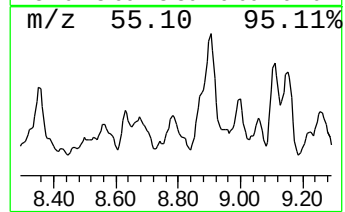
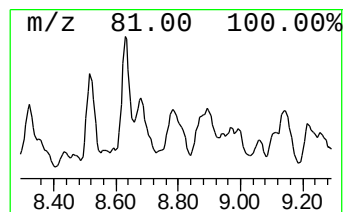
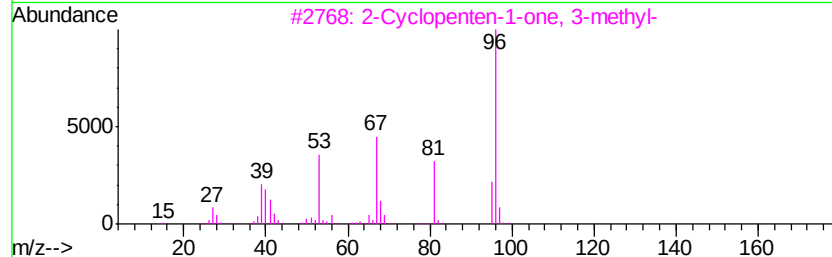
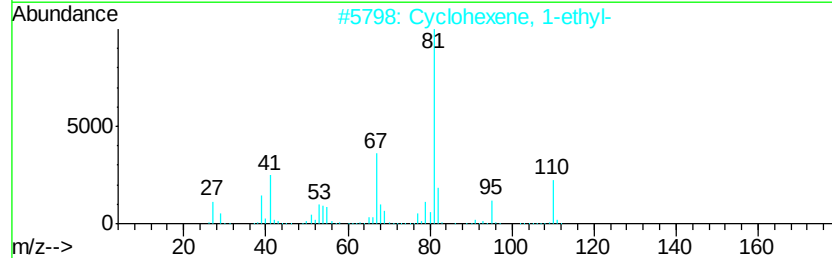
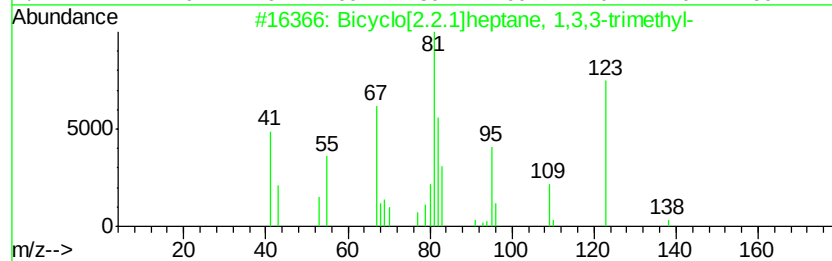
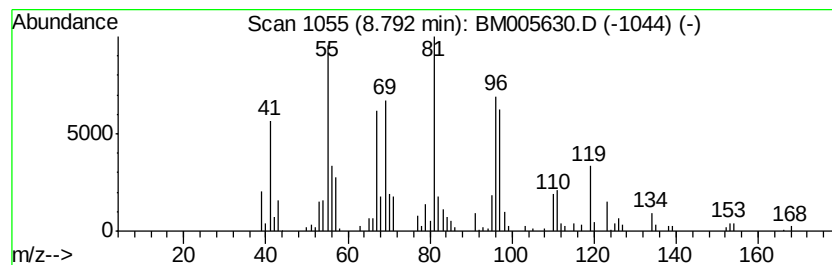
TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 29 (DEL) Alkane: Branched-8.79 Concentration Rank 24

| R.T. | EstConc    | Area   | Relative to ISTD       | R.T. |
|------|------------|--------|------------------------|------|
| 8.79 | 9.16 ng/ul | 518560 | 1,4-Dichlorobenzene-d4 | 7.80 |

| Hit# | of | Tentative ID                        | MW  | MolForm | CAS#        | Qual |
|------|----|-------------------------------------|-----|---------|-------------|------|
| 1    | 5  | Bicyclo[2.2.1]heptane, 1,3,3-tri... | 138 | C10H18  | 006248-88-0 | 43   |
| 2    |    | Cyclohexene, 1-ethyl-               | 110 | C8H14   | 001453-24-3 | 27   |
| 3    |    | 2-Cyclopenten-1-one, 3-methyl-      | 96  | C6H8O   | 002758-18-1 | 25   |
| 4    |    | 1-Methyl-2-methylenecyclohexane     | 110 | C8H14   | 002808-75-5 | 25   |
| 5    |    | 2,4-Nonadienal                      | 138 | C9H14O  | 006750-03-4 | 25   |





Data Path : Z:\HPCHEM1\BNA\_M\DATA\BM052316\  
Data File : BM005630.D  
Acq On : 24 May 2016 04:18  
Operator : UM/SJ  
Sample : H3086-11RE  
Misc :  
ALS Vial : 16 Sample Multiplier: 1

Instrument :  
BNA\_M  
ClientSampleId :  
JHGH6RE

Quant Method : Z:\HPCHEM1\BNA\_M\METHODS\SOM02.2-EPA-BM052016.M  
Quant Title : SVOA CALIBRATION

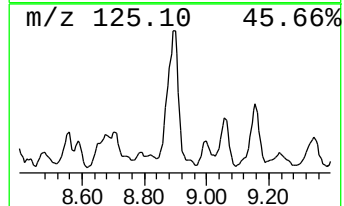
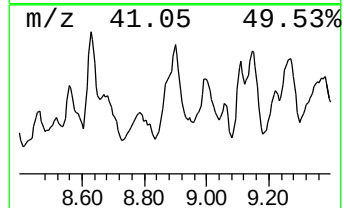
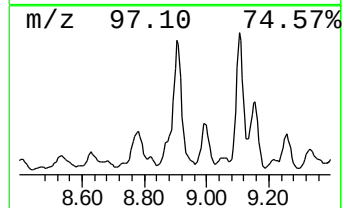
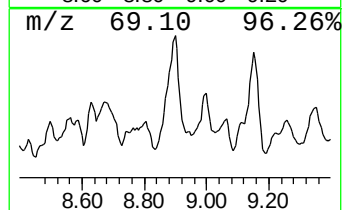
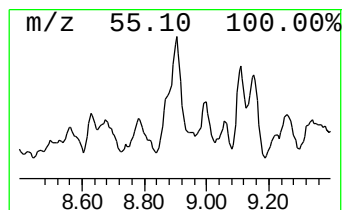
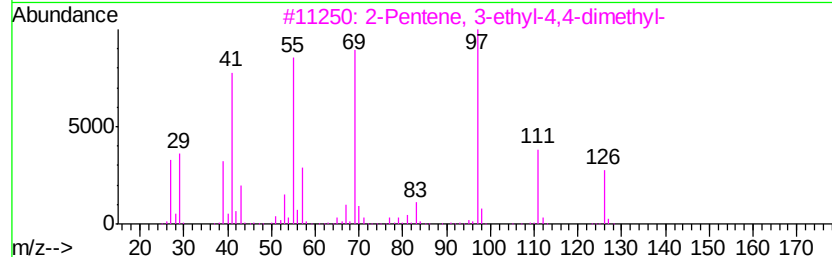
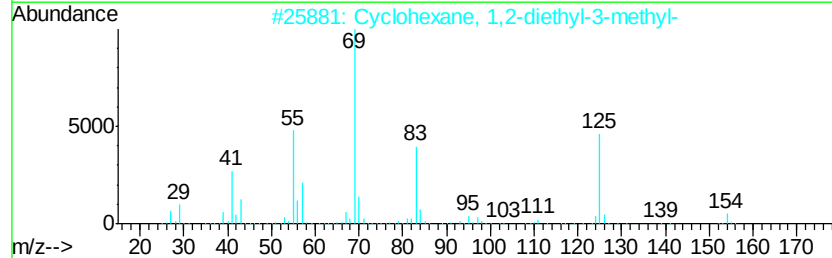
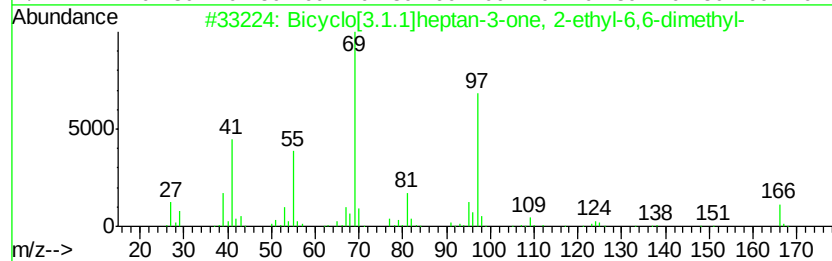
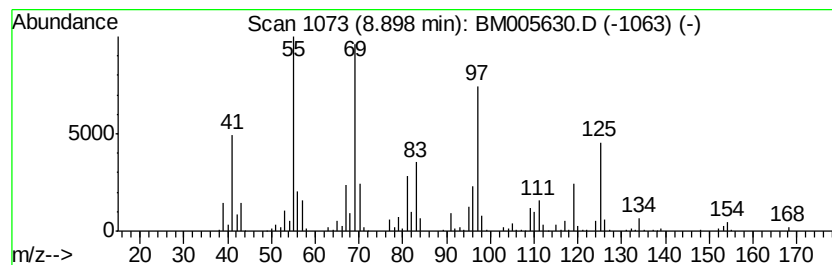
TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 30 unknown-05 Concentration Rank 10

| R.T. | EstConc     | Area    | Relative to ISTD       | R.T. |
|------|-------------|---------|------------------------|------|
| 8.90 | 25.31 ng/ul | 1432380 | 1,4-Dichlorobenzene-d4 | 7.80 |

| Hit# | of | Tentative ID                        | MW  | MolForm | CAS#         | Qual |
|------|----|-------------------------------------|-----|---------|--------------|------|
| 1    | 5  | Bicyclo[3.1.1]heptan-3-one, 2-et... | 166 | C11H18O | 1000163-95-8 | 47   |
| 2    |    | Cyclohexane, 1,2-diethyl-3-methyl-  | 154 | C11H22  | 061141-80-8  | 43   |
| 3    |    | 2-Pentene, 3-ethyl-4,4-dimethyl-    | 126 | C9H18   | 053907-59-8  | 43   |
| 4    |    | Cyclohexane, 1-ethyl-2-propyl-      | 154 | C11H22  | 062238-33-9  | 30   |
| 5    |    | 2-Butyl-3,4,5,6-tetrahydropyridine  | 139 | C9H17N  | 001462-94-8  | 25   |



Data Path : Z:\HPCHEM1\BNA\_M\DATA\BM052316\  
Data File : BM005630.D  
Acq On : 24 May 2016 04:18  
Operator : UM/SJ  
Sample : H3086-11RE  
Misc :  
ALS Vial : 16 Sample Multiplier: 1

Instrument :  
BNA\_M  
ClientSampleId :  
JHGH6RE

Quant Method : Z:\HPCHEM1\BNA\_M\METHODS\SOM02.2-EPA-BM052016.M  
Quant Title : SVOA CALIBRATION

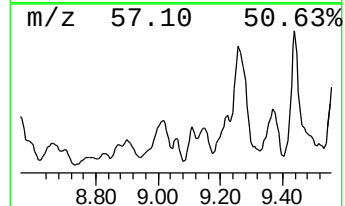
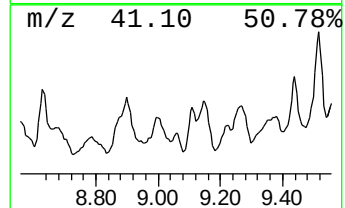
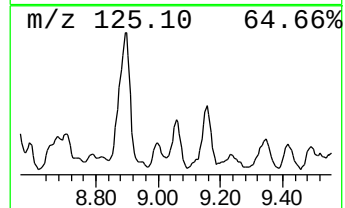
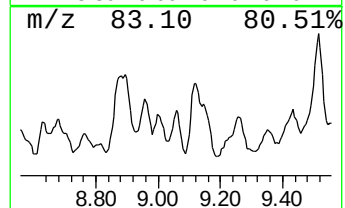
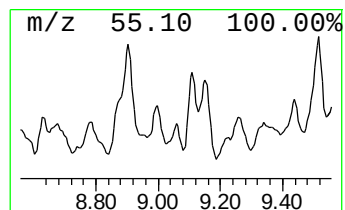
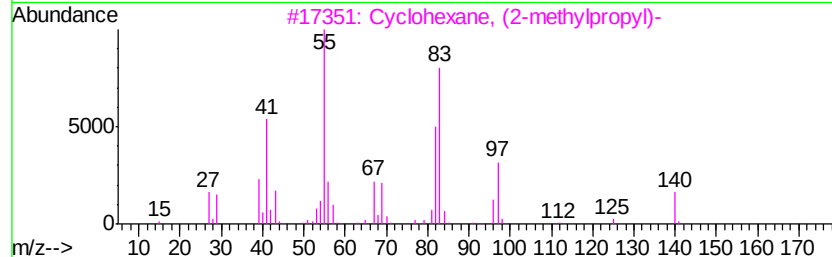
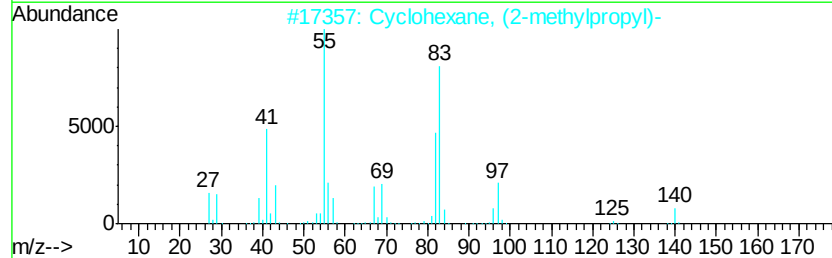
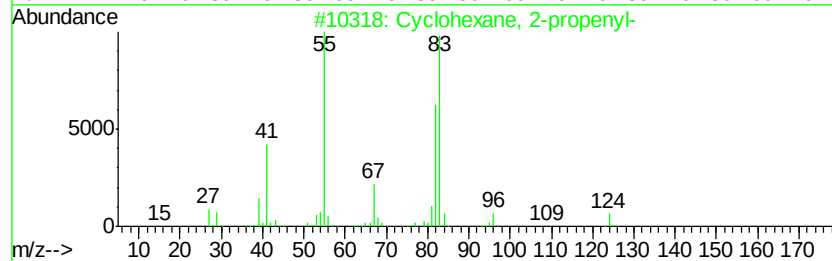
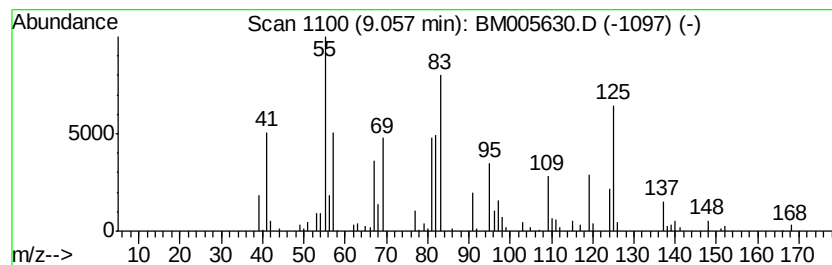
TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 31 (DEL) Alkane: Branched-9.06 Concentration Rank 42

| R.T. | EstConc    | Area   | Relative to ISTD       | R.T. |
|------|------------|--------|------------------------|------|
| 9.06 | 4.69 ng/ul | 265169 | 1,4-Dichlorobenzene-d4 | 7.80 |

| Hit# | of | Tentative ID                        | MW  | MolForm | CAS#        | Qual |
|------|----|-------------------------------------|-----|---------|-------------|------|
| 1    | 5  | Cyclohexane, 2-propenyl-            | 124 | C9H16   | 002114-42-3 | 43   |
| 2    |    | Cyclohexane, (2-methylpropyl)-      | 140 | C10H20  | 001678-98-4 | 38   |
| 3    |    | Cyclohexane, (2-methylpropyl)-      | 140 | C10H20  | 001678-98-4 | 38   |
| 4    |    | Cyclopentane, 1-methyl-2-(2-prop... | 124 | C9H16   | 050746-53-7 | 35   |
| 5    |    | Cyclohexane, (1-methylethyl)-       | 126 | C9H18   | 000696-29-7 | 35   |



Data Path : Z:\HPCHEM1\BNA\_M\DATA\BM052316\  
Data File : BM005630.D  
Acq On : 24 May 2016 04:18  
Operator : UM/SJ  
Sample : H3086-11RE  
Misc :  
ALS Vial : 16 Sample Multiplier: 1

Instrument :  
BNA\_M  
ClientSampleId :  
JHGH6RE

Quant Method : Z:\HPCHEM1\BNA\_M\METHODS\SOM02.2-EPA-BM052016.M  
Quant Title : SVOA CALIBRATION

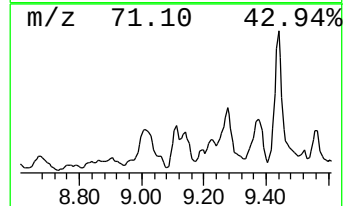
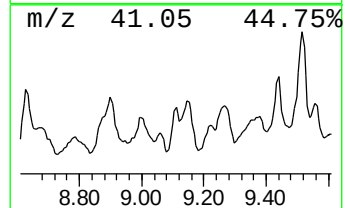
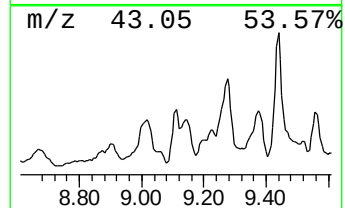
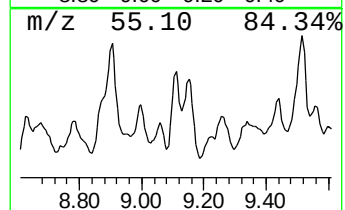
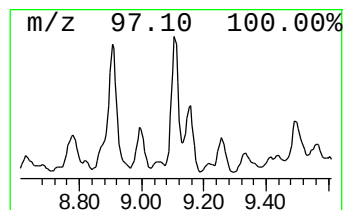
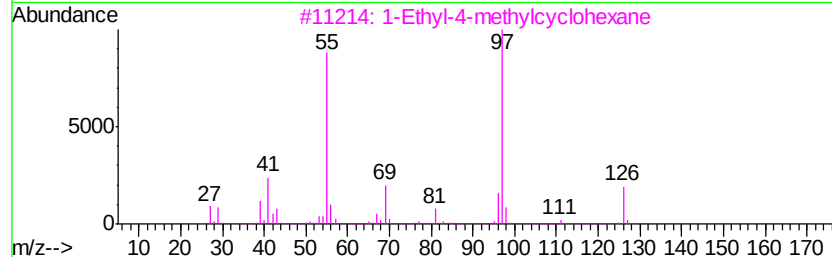
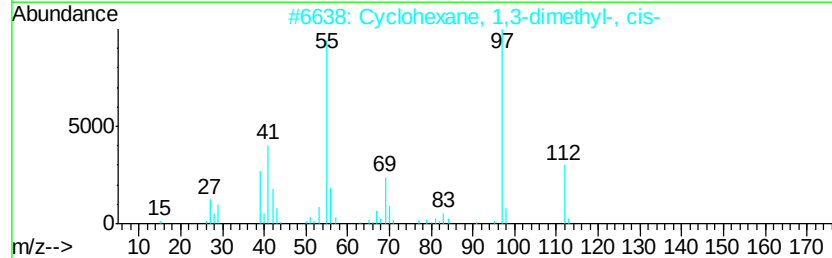
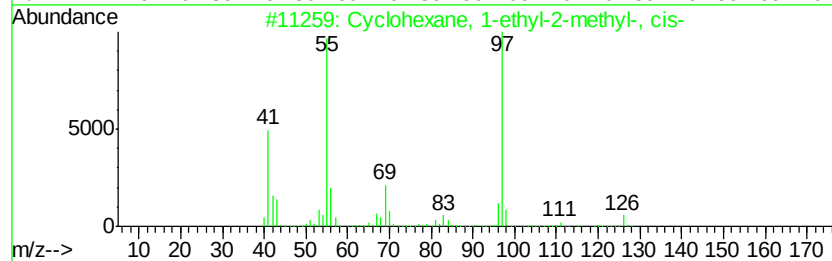
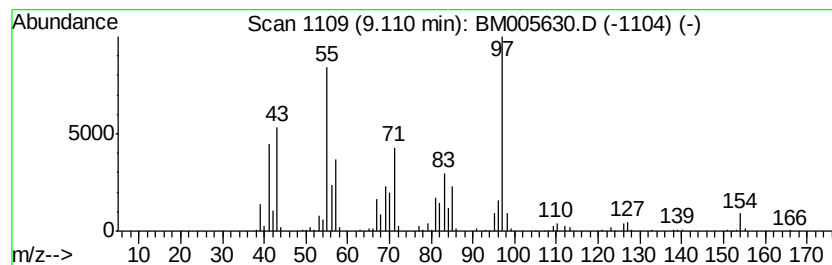
TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 32 (DEL) Alkane: Cyclic-9.11 Concentration Rank 23

| R.T. | EstConc     | Area   | Relative to ISTD       | R.T. |
|------|-------------|--------|------------------------|------|
| 9.11 | 10.32 ng/ul | 584242 | 1,4-Dichlorobenzene-d4 | 7.80 |

| Hit# | of | Tentative ID                        | MW  | MolForm | CAS#        | Qual |
|------|----|-------------------------------------|-----|---------|-------------|------|
| 1    | 5  | Cyclohexane, 1-ethyl-2-methyl-, ... | 126 | C9H18   | 004923-77-7 | 38   |
| 2    |    | Cyclohexane, 1,3-dimethyl-, cis-    | 112 | C8H16   | 000638-04-0 | 35   |
| 3    |    | 1-Ethyl-4-methylcyclohexane         | 126 | C9H18   | 003728-56-1 | 35   |
| 4    |    | Thiophene, 2-pentyl-                | 154 | C9H14S  | 004861-58-9 | 35   |
| 5    |    | Cyclohexane, 1-ethyl-2-methyl-      | 126 | C9H18   | 003728-54-9 | 35   |



Data Path : Z:\HPCHEM1\BNA\_M\DATA\BM052316\  
Data File : BM005630.D  
Acq On : 24 May 2016 04:18  
Operator : UM/SJ  
Sample : H3086-11RE  
Misc :  
ALS Vial : 16 Sample Multiplier: 1

Instrument :  
BNA\_M  
ClientSampleId :  
JHGH6RE

Quant Method : Z:\HPCHEM1\BNA\_M\METHODS\SOM02.2-EPA-BM052016.M  
Quant Title : SVOA CALIBRATION

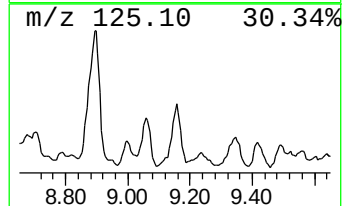
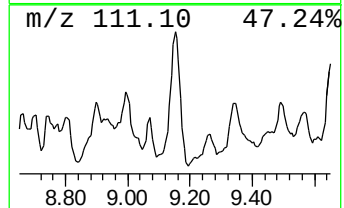
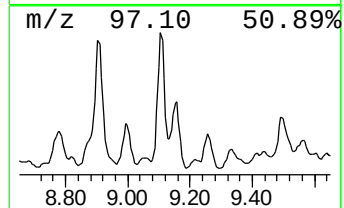
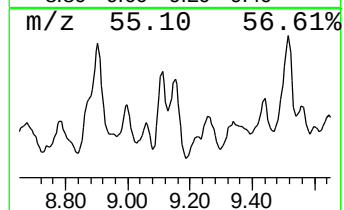
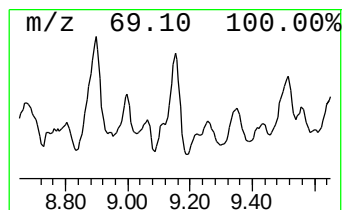
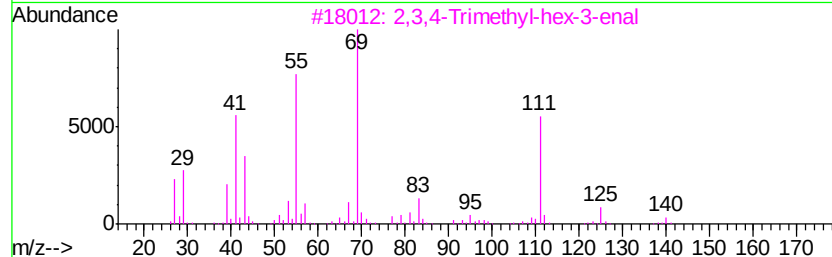
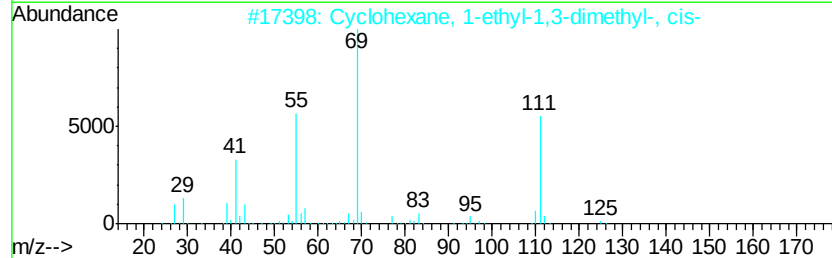
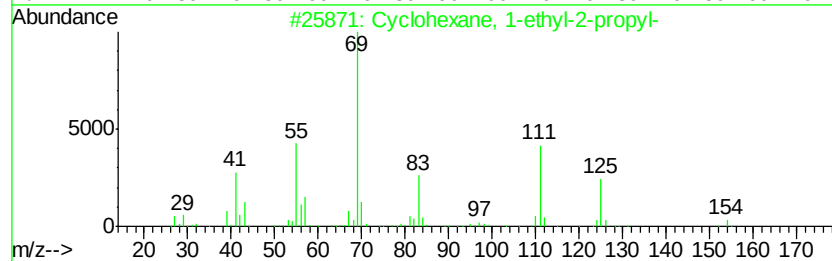
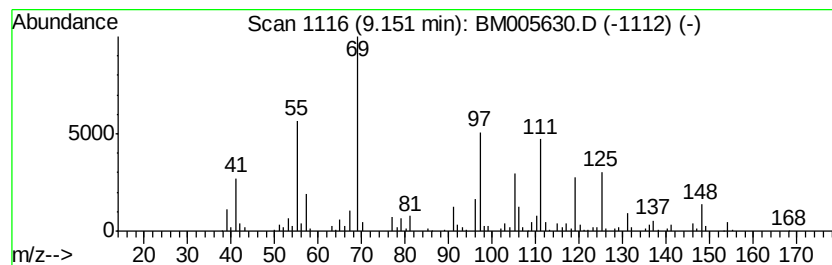
TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 33 (DEL) Alkane: Cyclic-9.15 Concentration Rank 15

| R.T. | EstConc     | Area   | Relative to ISTD       | R.T. |
|------|-------------|--------|------------------------|------|
| 9.15 | 16.06 ng/ul | 908681 | 1,4-Dichlorobenzene-d4 | 7.80 |

| Hit# | of | Tentative ID                        | MW  | MolForm | CAS#         | Qual |
|------|----|-------------------------------------|-----|---------|--------------|------|
| 1    | 5  | Cyclohexane, 1-ethyl-2-propyl-      | 154 | C11H22  | 062238-33-9  | 45   |
| 2    |    | Cyclohexane, 1-ethyl-1,3-dimethy... | 140 | C10H20  | 062238-31-7  | 35   |
| 3    |    | 2,3,4-Trimethyl-hex-3-enal          | 140 | C9H16O  | 1000193-72-9 | 35   |
| 4    |    | Cyclohexane, 1-ethyl-1,3-dimethy... | 140 | C10H20  | 062238-29-3  | 35   |
| 5    |    | Cyclooctanemethanol                 | 142 | C9H18O  | 003637-63-6  | 35   |



Data Path : Z:\HPCHEM1\BNA\_M\DATA\BM052316\  
Data File : BM005630.D  
Acq On : 24 May 2016 04:18  
Operator : UM/SJ  
Sample : H3086-11RE  
Misc :  
ALS Vial : 16 Sample Multiplier: 1

Instrument :  
BNA\_M  
ClientSampleId :  
JHGH6RE

Quant Method : Z:\HPCHEM1\BNA\_M\METHODS\SOM02.2-EPA-BM052016.M  
Quant Title : SVOA CALIBRATION

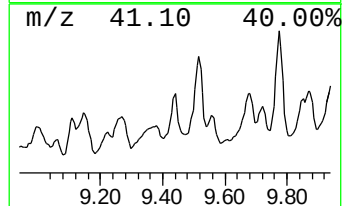
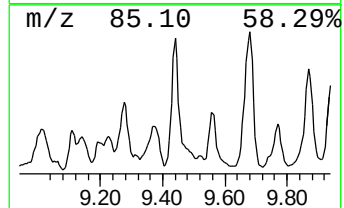
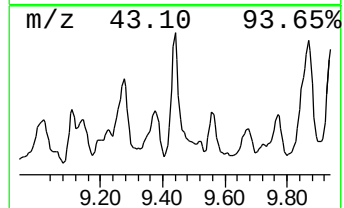
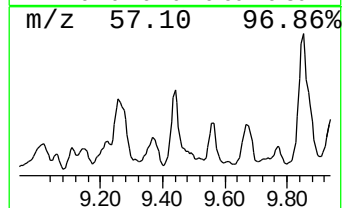
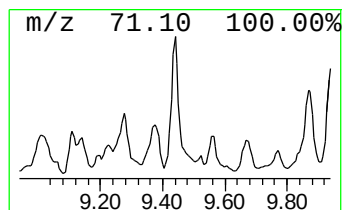
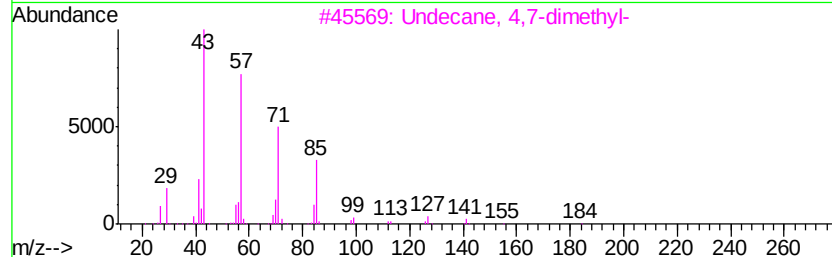
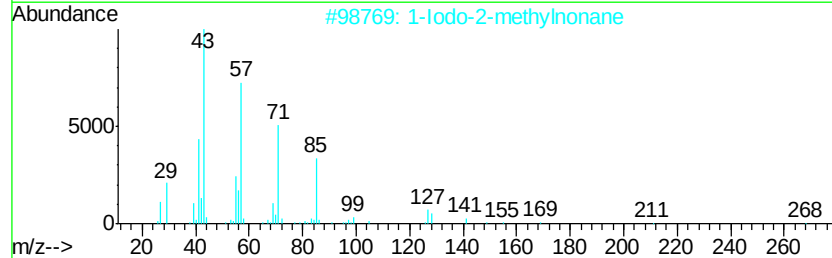
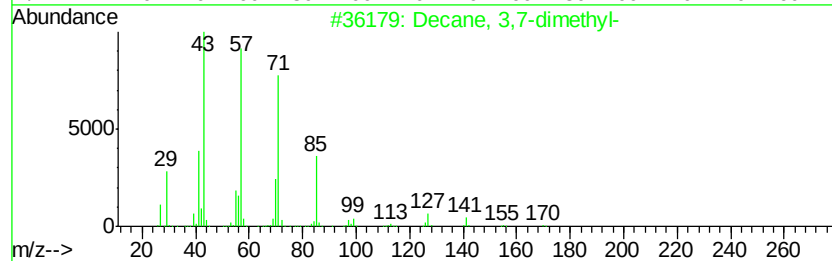
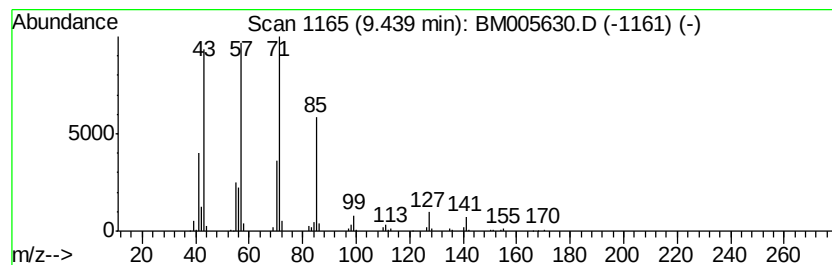
TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 35 (DEL) Alkane: Straight-Chai... Concentration Rank 64

| R.T. | EstConc    | Area   | Relative to ISTD | R.T.  |
|------|------------|--------|------------------|-------|
| 9.44 | 2.12 ng/ul | 413392 | Napthalene-d8    | 10.60 |

| Hit# | of | Tentative ID             | MW  | MolForm | CAS#         | Qual |
|------|----|--------------------------|-----|---------|--------------|------|
| 1    | 5  | Decane, 3,7-dimethyl-    | 170 | C12H26  | 017312-54-8  | 87   |
| 2    |    | 1-Iodo-2-methylnonane    | 268 | C10H21I | 1000101-47-9 | 78   |
| 3    |    | Undecane, 4,7-dimethyl-  | 184 | C13H28  | 017301-32-5  | 72   |
| 4    |    | Heptane, 2,4-dimethyl-   | 128 | C9H20   | 002213-23-2  | 59   |
| 5    |    | Decane, 2,3,5-trimethyl- | 184 | C13H28  | 062238-11-3  | 59   |



Data Path : Z:\HPCHEM1\BNA\_M\DATA\BM052316\  
Data File : BM005630.D  
Acq On : 24 May 2016 04:18  
Operator : UM/SJ  
Sample : H3086-11RE  
Misc :  
ALS Vial : 16 Sample Multiplier: 1

Instrument :  
BNA\_M  
ClientSampleId :  
JHG6RE

Quant Method : Z:\HPCHEM1\BNA\_M\METHODS\SOM02.2-EPA-BM052016.M  
Quant Title : SVOA CALIBRATION

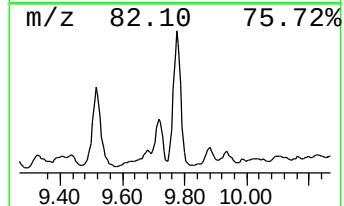
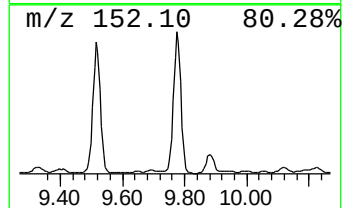
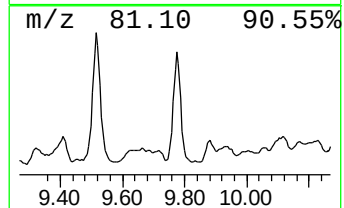
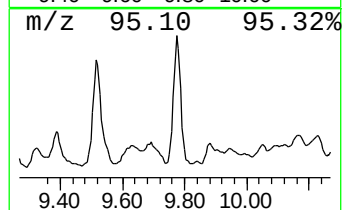
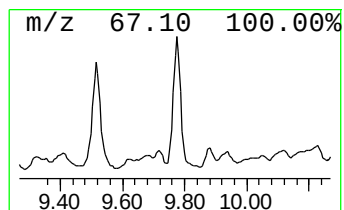
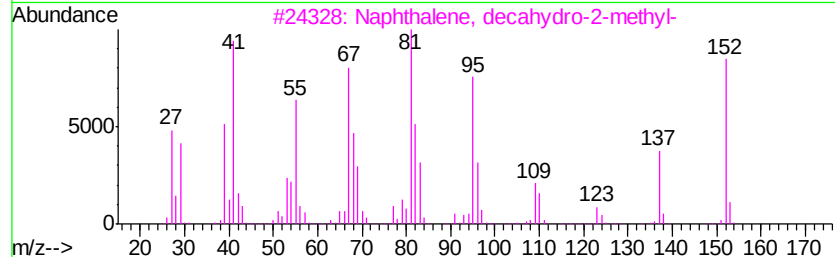
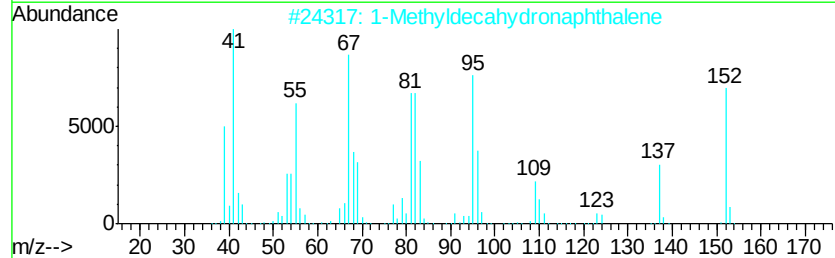
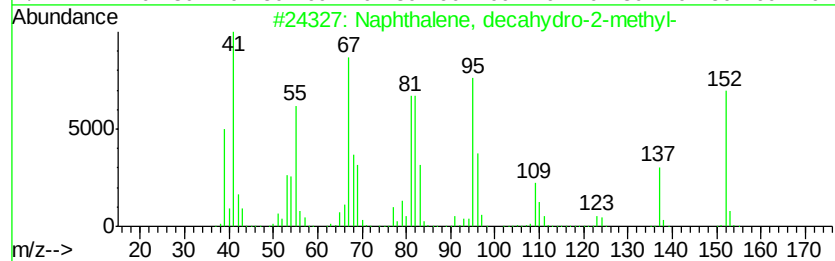
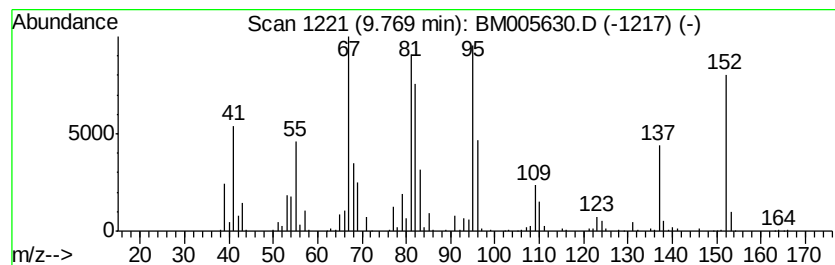
TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 37 (DEL) Alkane: Branched-9.77 Concentration Rank 19

| R.T. | EstConc     | Area    | Relative to ISTD | R.T.  |
|------|-------------|---------|------------------|-------|
| 9.77 | 11.00 ng/ul | 2144690 | Naphthalene-d8   | 10.60 |

| Hit# | of | Tentative ID                     | MW  | MolForm | CAS#         | Qual |
|------|----|----------------------------------|-----|---------|--------------|------|
| 1    | 5  | Naphthalene, decahydro-2-methyl- | 152 | C11H20  | 002958-76-1  | 98   |
| 2    |    | 1-Methyldecahydronaphthalene     | 152 | C11H20  | 002958-75-0  | 98   |
| 3    |    | Naphthalene, decahydro-2-methyl- | 152 | C11H20  | 002958-76-1  | 89   |
| 4    |    | cis-Decalin, 2-syn-methyl-       | 152 | C11H20  | 1000155-85-6 | 74   |
| 5    |    | trans-Decalin, 2-methyl-         | 152 | C11H20  | 1000152-47-3 | 70   |



Data Path : Z:\HPCHEM1\BNA\_M\DATA\BM052316\  
Data File : BM005630.D  
Acq On : 24 May 2016 04:18  
Operator : UM/SJ  
Sample : H3086-11RE  
Misc :  
ALS Vial : 16 Sample Multiplier: 1

Instrument :  
BNA\_M  
ClientSampleId :  
JHGH6RE

Quant Method : Z:\HPCHEM1\BNA\_M\METHODS\SOM02.2-EPA-BM052016.M  
Quant Title : SVOA CALIBRATION

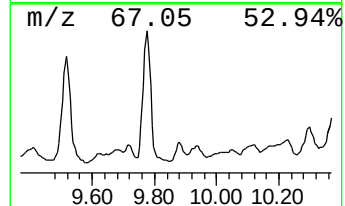
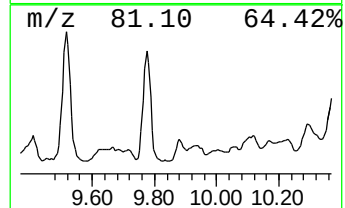
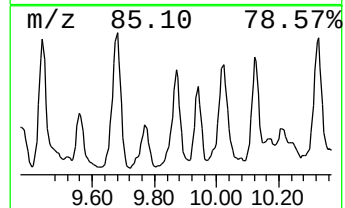
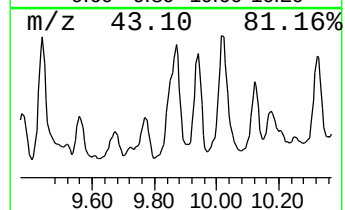
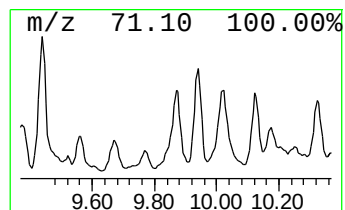
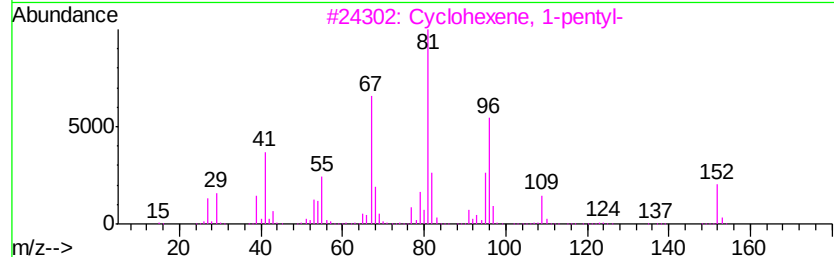
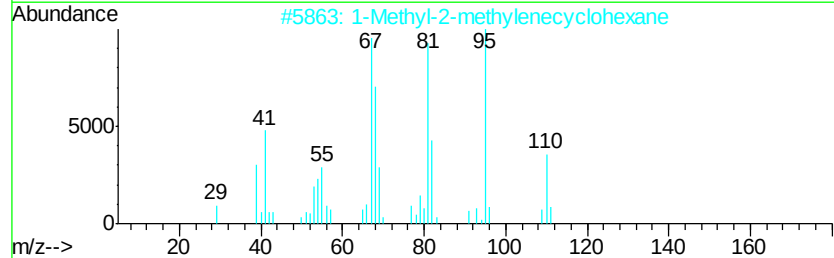
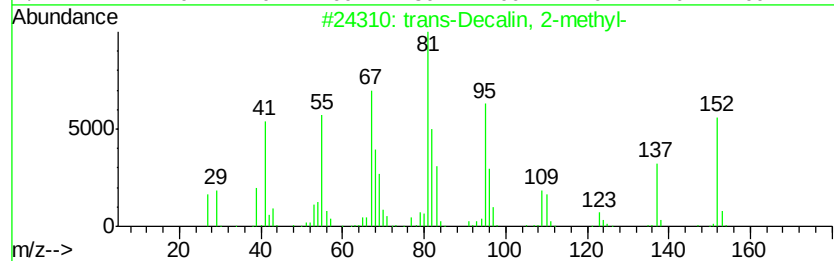
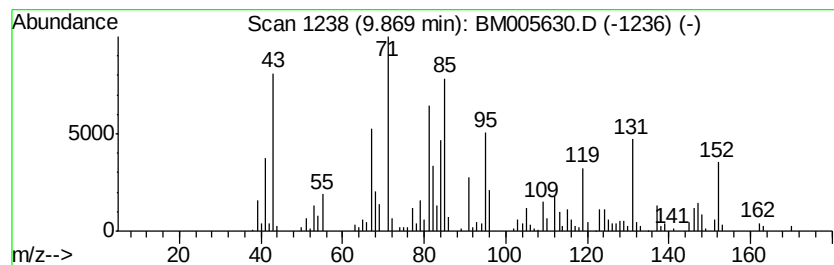
TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 38 (DEL) Alkane: Branched-9.87 Concentration Rank 57

| R.T. | EstConc    | Area   | Relative to ISTD | R.T.  |
|------|------------|--------|------------------|-------|
| 9.87 | 2.56 ng/ul | 498513 | Naphthalene-d8   | 10.60 |

| Hit# | of | Tentative ID                    | MW  | MolForm | CAS#         | Qual |
|------|----|---------------------------------|-----|---------|--------------|------|
| 1    | 5  | trans-Decalin, 2-methyl-        | 152 | C11H20  | 1000152-47-3 | 43   |
| 2    |    | 1-Methyl-2-methylenecyclohexane | 110 | C8H14   | 002808-75-5  | 41   |
| 3    |    | Cyclohexene, 1-pentyl-          | 152 | C11H20  | 015232-85-6  | 38   |
| 4    |    | 9-Octadecyne                    | 250 | C18H34  | 035365-59-4  | 38   |
| 5    |    | Pulegone                        | 152 | C10H16O | 000089-82-7  | 38   |



Data Path : Z:\HPCHEM1\BNA\_M\DATA\BM052316\  
Data File : BM005630.D  
Acq On : 24 May 2016 04:18  
Operator : UM/SJ  
Sample : H3086-11RE  
Misc :  
ALS Vial : 16 Sample Multiplier: 1

Instrument :  
BNA\_M  
ClientSampleId :  
JHGH6RE

Quant Method : Z:\HPCHEM1\BNA\_M\METHODS\SOM02.2-EPA-BM052016.M  
Quant Title : SVOA CALIBRATION

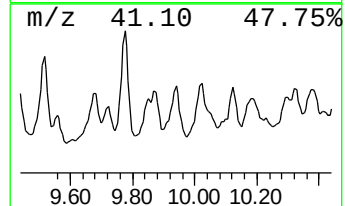
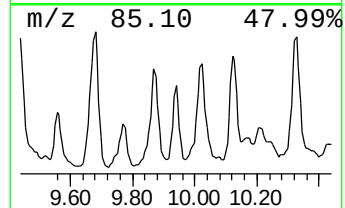
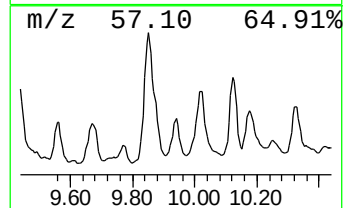
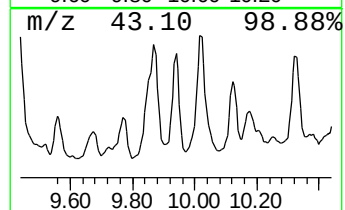
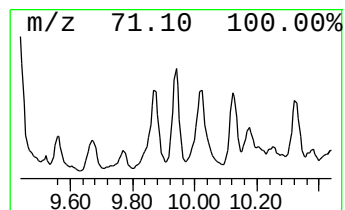
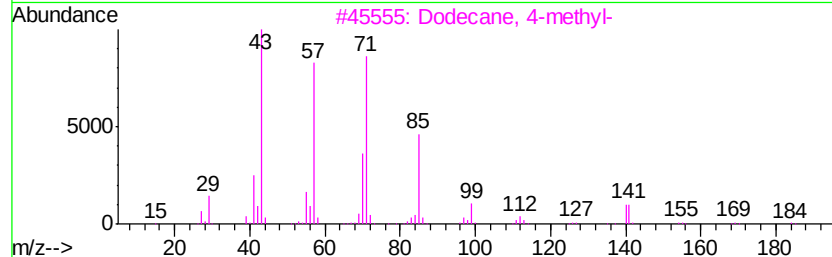
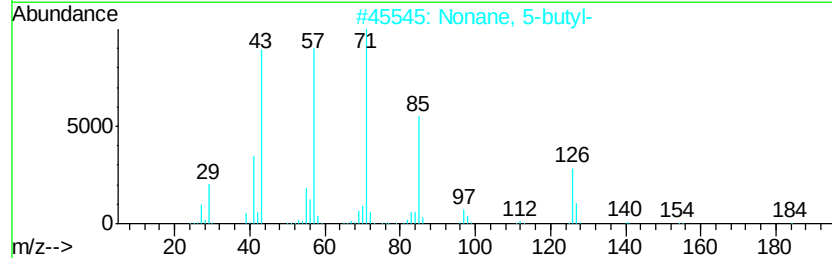
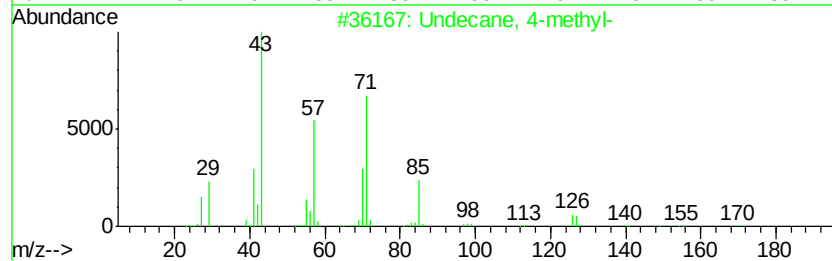
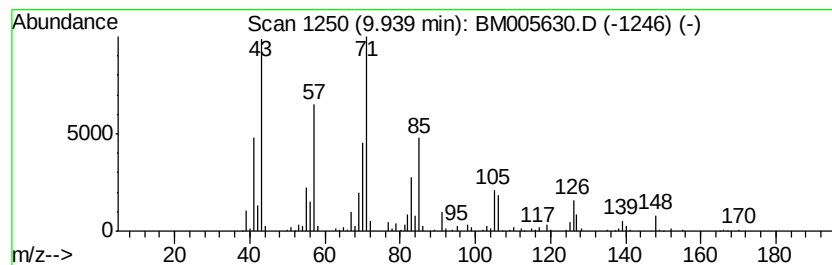
TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 39 (DEL) Alkane: Straight-Chai... Concentration Rank 45

| R.T. | EstConc    | Area   | Relative to ISTD | R.T.  |
|------|------------|--------|------------------|-------|
| 9.94 | 3.89 ng/ul | 758497 | Napthalene-d8    | 10.60 |

| Hit# | of | 5 | Tentative ID               | MW  | MolForm | CAS#        | Qual |
|------|----|---|----------------------------|-----|---------|-------------|------|
| 1    |    |   | Undecane, 4-methyl-        | 170 | C12H26  | 002980-69-0 | 53   |
| 2    |    |   | Nonane, 5-butyl-           | 184 | C13H28  | 017312-63-9 | 49   |
| 3    |    |   | Dodecane, 4-methyl-        | 184 | C13H28  | 006117-97-1 | 47   |
| 4    |    |   | Hexane, 3,3-dimethyl-      | 114 | C8H18   | 000563-16-6 | 47   |
| 5    |    |   | 1-Nonene, 4,6,8-trimethyl- | 168 | C12H24  | 054410-98-9 | 43   |





Data Path : Z:\HPCHEM1\BNA\_M\DATA\BM052316\  
Data File : BM005630.D  
Acq On : 24 May 2016 04:18  
Operator : UM/SJ  
Sample : H3086-11RE  
Misc :  
ALS Vial : 16 Sample Multiplier: 1

Instrument :  
BNA\_M  
ClientSampleId :  
JHGH6RE

Quant Method : Z:\HPCHEM1\BNA\_M\METHODS\SOM02.2-EPA-BM052016.M  
Quant Title : SVOA CALIBRATION

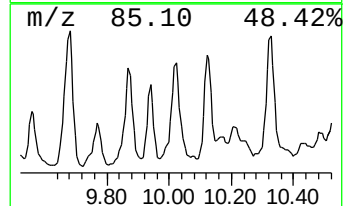
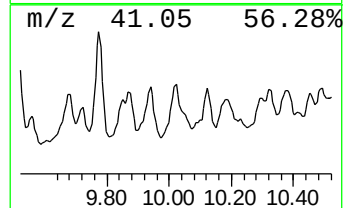
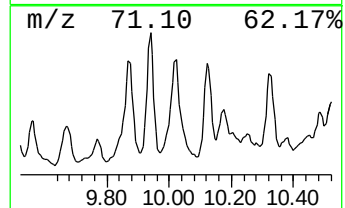
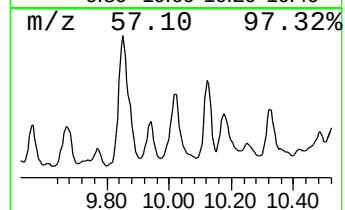
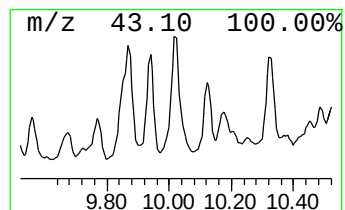
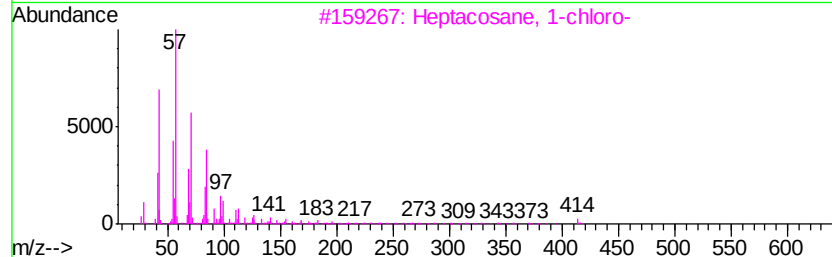
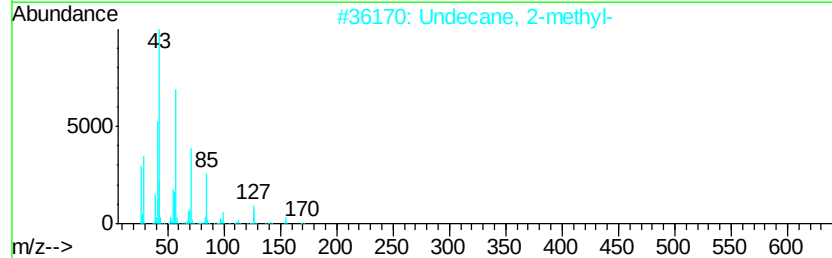
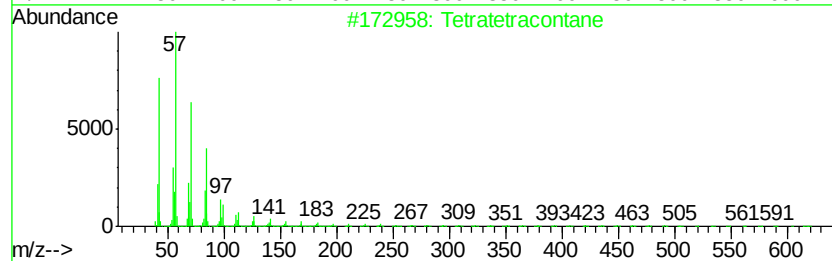
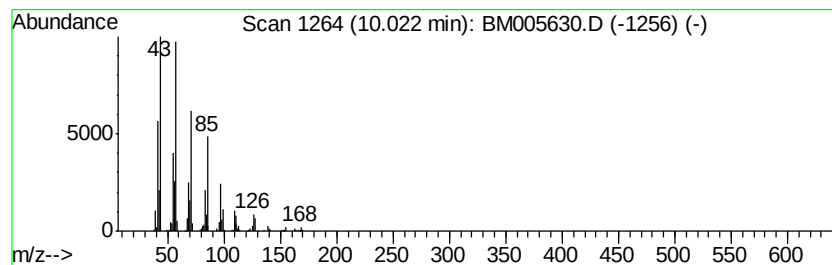
TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 40 (DEL) Alkane: Straight-Chai... Concentration Rank 43

| R.T.  | EstConc    | Area   | Relative to ISTD | R.T.  |
|-------|------------|--------|------------------|-------|
| 10.02 | 4.47 ng/ul | 871865 | Napthalene-d8    | 10.60 |

| Hit# | of | Tentative ID           | MW  | MolForm  | CAS#        | Qual |
|------|----|------------------------|-----|----------|-------------|------|
| 1    | 5  | Tetratetracontane      | 619 | C44H90   | 007098-22-8 | 64   |
| 2    |    | Undecane, 2-methyl-    | 170 | C12H26   | 007045-71-8 | 59   |
| 3    |    | Heptacosane, 1-chloro- | 414 | C27H55Cl | 062016-79-9 | 59   |
| 4    |    | Hexadecane             | 226 | C16H34   | 000544-76-3 | 58   |
| 5    |    | Tetradecane            | 198 | C14H30   | 000629-59-4 | 58   |



Data Path : Z:\HPCHEM1\BNA\_M\DATA\BM052316\  
Data File : BM005630.D  
Acq On : 24 May 2016 04:18  
Operator : UM/SJ  
Sample : H3086-11RE  
Misc :  
ALS Vial : 16 Sample Multiplier: 1

Instrument :  
BNA\_M  
ClientSampleId :  
JHGH6RE

Quant Method : Z:\HPCHEM1\BNA\_M\METHODS\SOM02.2-EPA-BM052016.M  
Quant Title : SVOA CALIBRATION

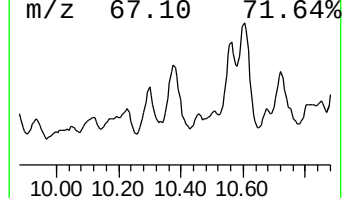
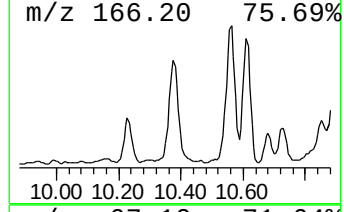
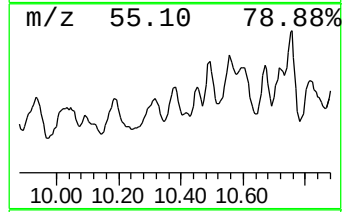
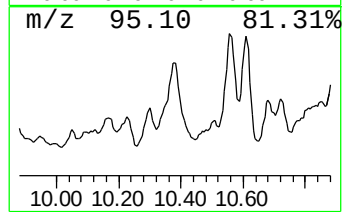
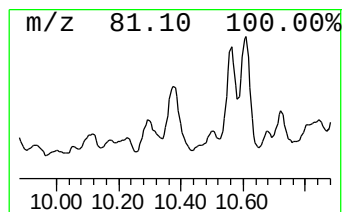
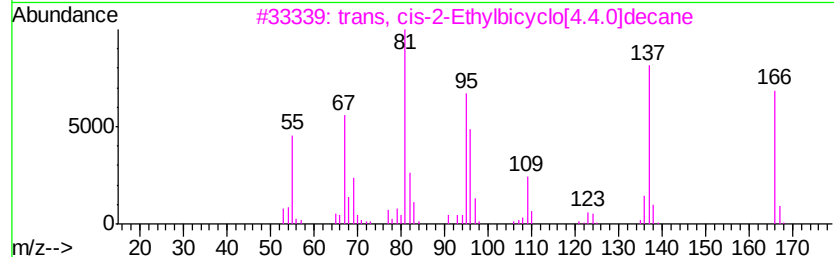
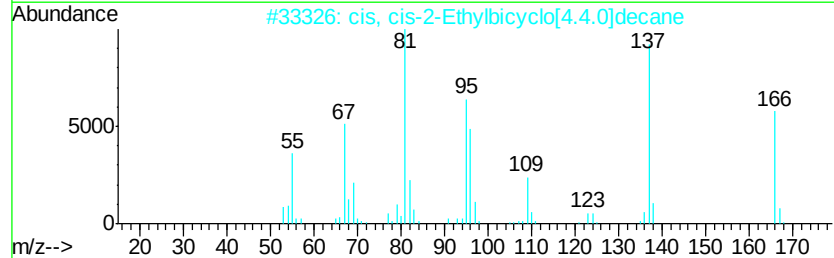
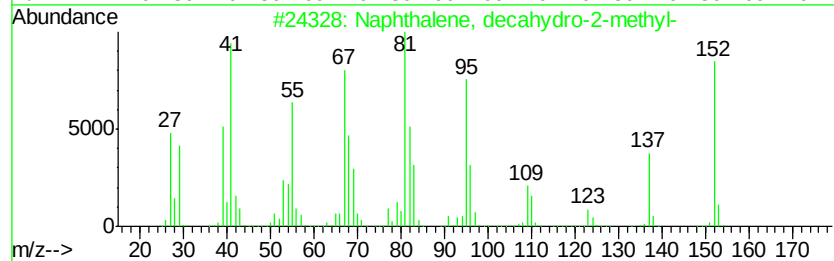
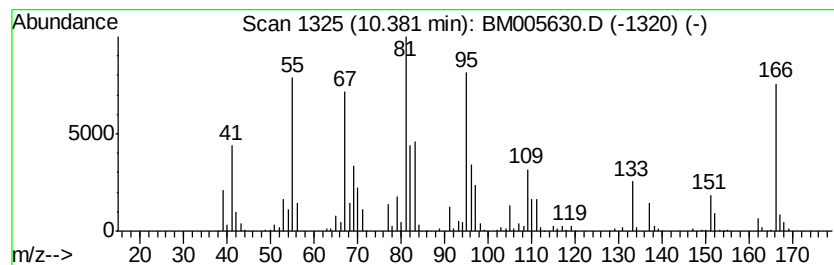
TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 42 (DEL) Alkane: Branched-10.38 Concentration Rank 48

| R.T.  | EstConc    | Area   | Relative to ISTD | R.T.  |
|-------|------------|--------|------------------|-------|
| 10.38 | 3.43 ng/ul | 669742 | Naphthalene-d8   | 10.60 |

| Hit# | of | Tentative ID                        | MW  | MolForm | CAS#        | Qual |
|------|----|-------------------------------------|-----|---------|-------------|------|
| 1    | 5  | Naphthalene, decahydro-2-methyl-    | 152 | C11H20  | 002958-76-1 | 64   |
| 2    |    | cis, cis-2-Ethylbicyclo[4.4.0]de... | 166 | C12H22  | 066660-40-0 | 64   |
| 3    |    | trans, cis-2-Ethylbicyclo[4.4.0]... | 166 | C12H22  | 066660-39-7 | 64   |
| 4    |    | 4-Tetradecyne                       | 194 | C14H26  | 060212-33-1 | 52   |
| 5    |    | Cyclodecene, 1-methyl-              | 152 | C11H20  | 066633-38-3 | 49   |



Data Path : Z:\HPCHEM1\BNA\_M\DATA\BM052316\  
Data File : BM005630.D  
Acq On : 24 May 2016 04:18  
Operator : UM/SJ  
Sample : H3086-11RE  
Misc :  
ALS Vial : 16 Sample Multiplier: 1

Instrument :  
BNA\_M  
ClientSampleId :  
JHGH6RE

Quant Method : Z:\HPCHEM1\BNA\_M\METHODS\SOM02.2-EPA-BM052016.M  
Quant Title : SVOA CALIBRATION

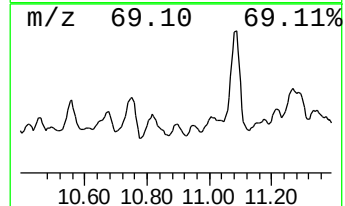
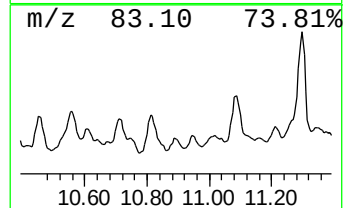
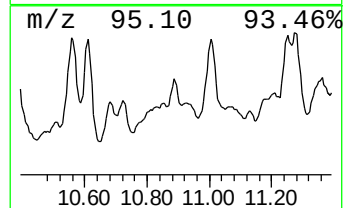
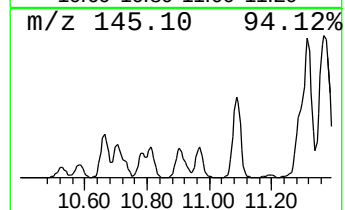
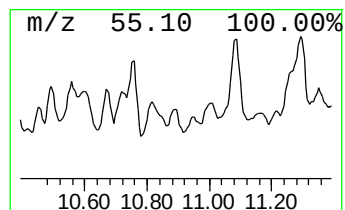
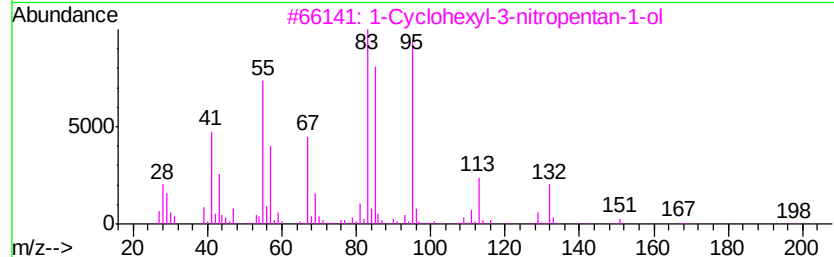
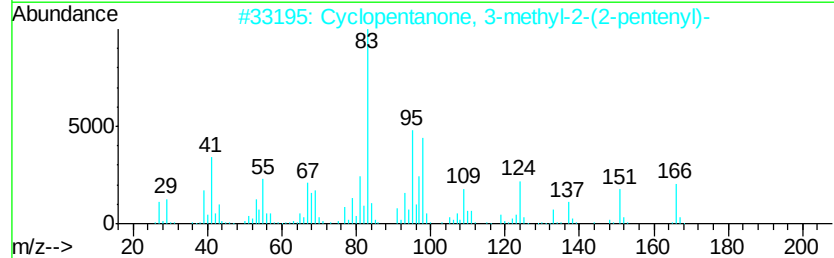
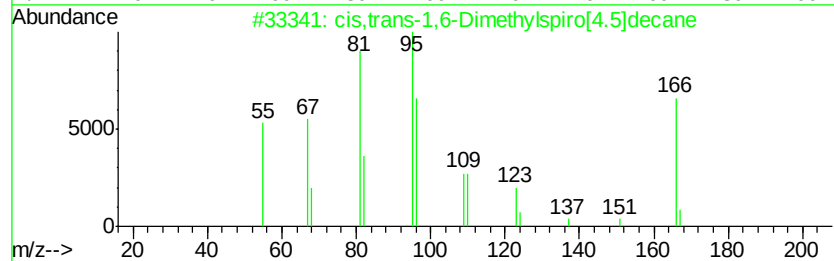
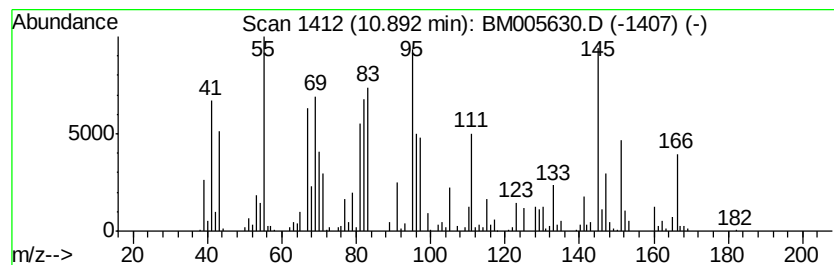
TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 44 (DEL) Alkane: Branched-10.89 Concentration Rank 44

| R.T.  | EstConc    | Area   | Relative to ISTD | R.T.  |
|-------|------------|--------|------------------|-------|
| 10.89 | 4.07 ng/ul | 794011 | Napthalene-d8    | 10.60 |

| Hit# | of | Tentative ID                        | MW  | MolForm   | CAS#         | Qual |
|------|----|-------------------------------------|-----|-----------|--------------|------|
| 1    | 5  | cis,trans-1,6-Dimethylspiro[4.5]... | 166 | C12H22    | 1000111-72-3 | 30   |
| 2    |    | Cyclopentanone, 3-methyl-2-(2-pe... | 166 | C11H18O   | 007051-39-0  | 27   |
| 3    |    | 1-Cyclohexyl-3-nitropentan-1-ol     | 215 | C11H21NO3 | 103077-91-4  | 22   |
| 4    |    | Cyclohexane, (2-ethyl-1-methyl-1... | 180 | C13H24    | 074810-42-7  | 22   |
| 5    |    | Napthalene, decahydro-2,3-dimet...  | 166 | C12H22    | 001008-80-6  | 22   |



Data Path : Z:\HPCHEM1\BNA\_M\DATA\BM052316\  
Data File : BM005630.D  
Acq On : 24 May 2016 04:18  
Operator : UM/SJ  
Sample : H3086-11RE  
Misc :  
ALS Vial : 16 Sample Multiplier: 1

Instrument :  
BNA\_M  
ClientSampleId :  
JHGH6RE

Quant Method : Z:\HPCHEM1\BNA\_M\METHODS\SOM02.2-EPA-BM052016.M  
Quant Title : SVOA CALIBRATION

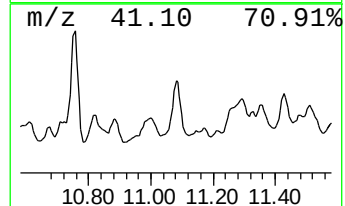
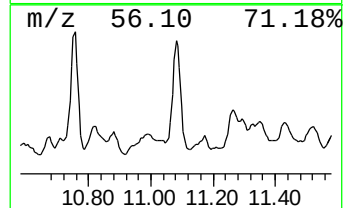
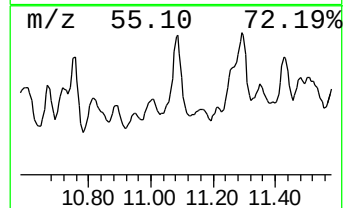
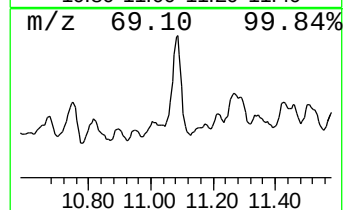
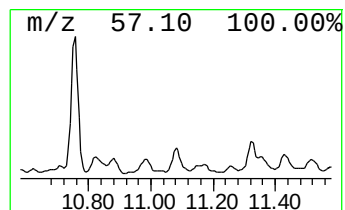
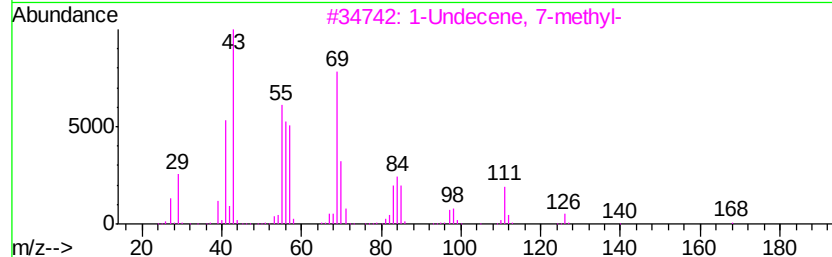
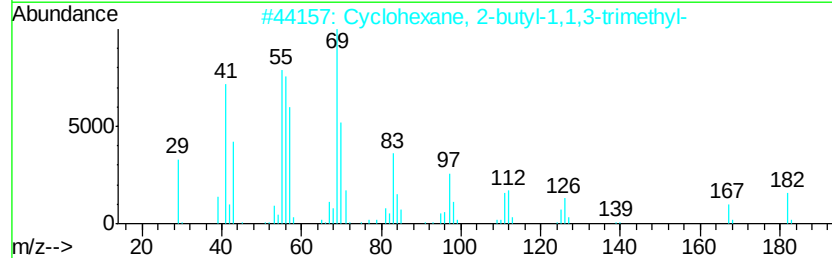
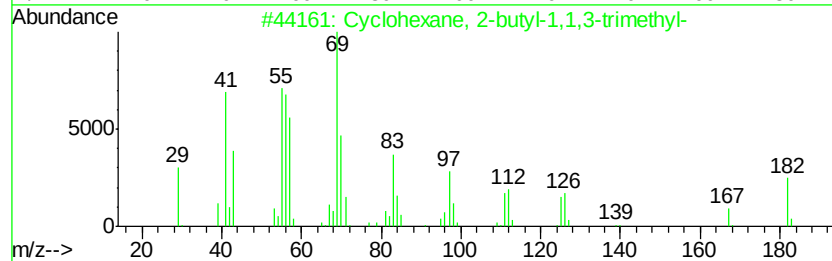
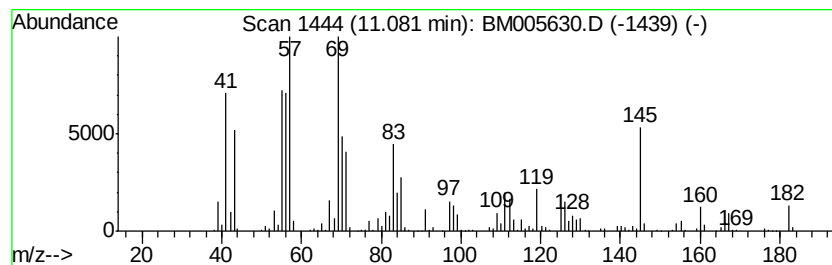
TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 45 (DEL) Alkane: Cyclic-11.08 Concentration Rank 21

| R.T.  | EstConc     | Area    | Relative to ISTD | R.T.  |
|-------|-------------|---------|------------------|-------|
| 11.08 | 10.39 ng/ul | 2026760 | Napthalene-d8    | 10.60 |

| Hit# | of | Tentative ID                        | MW  | MolForm | CAS#        | Qual |
|------|----|-------------------------------------|-----|---------|-------------|------|
| 1    | 5  | Cyclohexane, 2-butyl-1,1,3-trime... | 182 | C13H26  | 054676-39-0 | 83   |
| 2    |    | Cyclohexane, 2-butyl-1,1,3-trime... | 182 | C13H26  | 054676-39-0 | 83   |
| 3    |    | 1-Undecene, 7-methyl-               | 168 | C12H24  | 074630-42-5 | 60   |
| 4    |    | Cyclopentane, butyl-                | 126 | C9H18   | 002040-95-1 | 60   |
| 5    |    | 1-Nonanol, 4,8-dimethyl-            | 172 | C11H24O | 033933-80-1 | 58   |



Data Path : Z:\HPCHEM1\BNA\_M\DATA\BM052316\  
Data File : BM005630.D  
Acq On : 24 May 2016 04:18  
Operator : UM/SJ  
Sample : H3086-11RE  
Misc :  
ALS Vial : 16 Sample Multiplier: 1

Instrument :  
BNA\_M  
ClientSampleId :  
JHGH6RE

Quant Method : Z:\HPCHEM1\BNA\_M\METHODS\SOM02.2-EPA-BM052016.M  
Quant Title : SVOA CALIBRATION

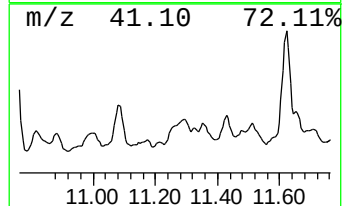
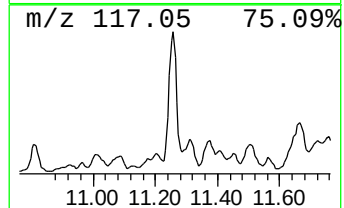
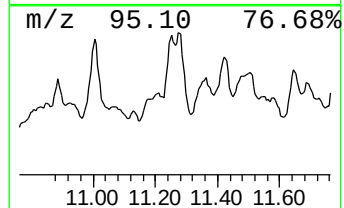
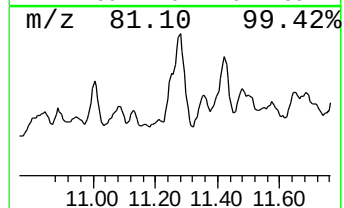
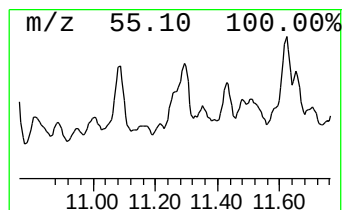
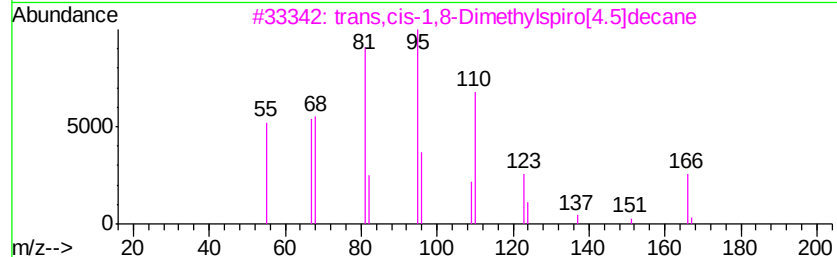
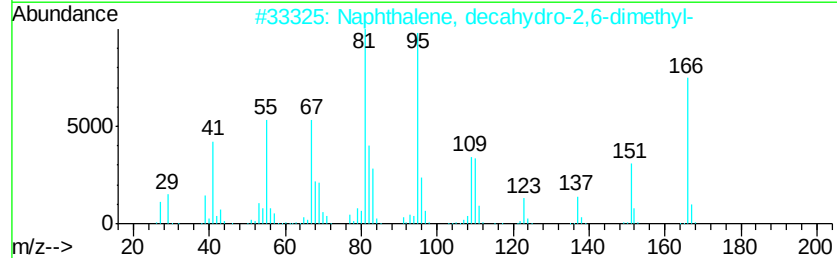
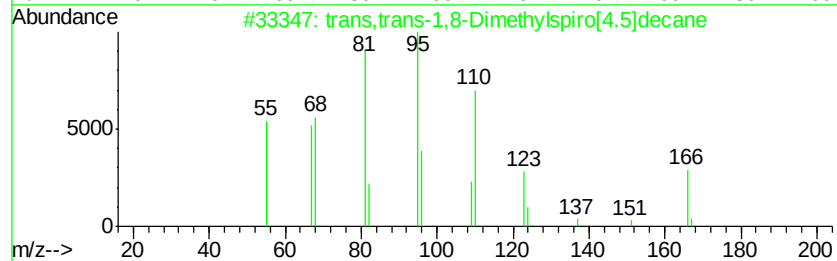
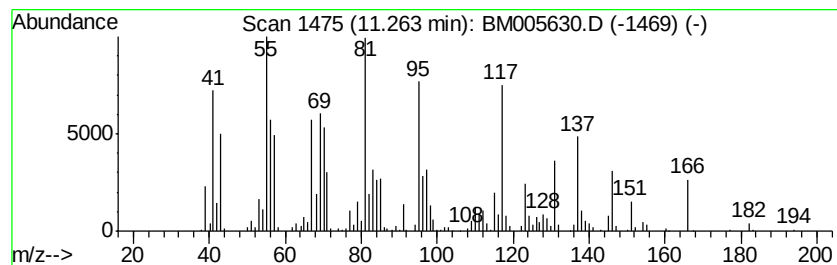
TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 46 (DEL) Alkane: Branched-11.26 Concentration Rank 34

| R.T.  | EstConc    | Area    | Relative to ISTD | R.T.  |
|-------|------------|---------|------------------|-------|
| 11.26 | 6.06 ng/ul | 1180980 | Naphthalene-d8   | 10.60 |

| Hit# | of                                  | 5   | Tentative ID | MW           | MolForm | CAS# | Qual |
|------|-------------------------------------|-----|--------------|--------------|---------|------|------|
| 1    | trans,trans-1,8-Dimethylspiro[4.5]  | 166 | C12H22       | 1000111-72-8 | 46      |      |      |
| 2    | Naphthalene, decahydro-2,6-dimethyl | 166 | C12H22       | 001618-22-0  | 43      |      |      |
| 3    | trans,cis-1,8-Dimethylspiro[4.5]    | 166 | C12H22       | 1000111-72-9 | 41      |      |      |
| 4    | 2-Ethyl-2,3-dihydro-1H-indene       | 146 | C11H14       | 056147-63-8  | 35      |      |      |
| 5    | 4-Tetradecyne                       | 194 | C14H26       | 060212-33-1  | 30      |      |      |



Data Path : Z:\HPCHEM1\BNA\_M\DATA\BM052316\  
Data File : BM005630.D  
Acq On : 24 May 2016 04:18  
Operator : UM/SJ  
Sample : H3086-11RE  
Misc :  
ALS Vial : 16 Sample Multiplier: 1

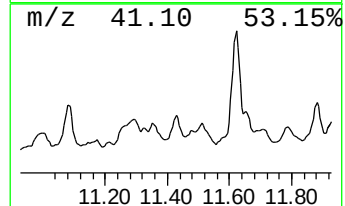
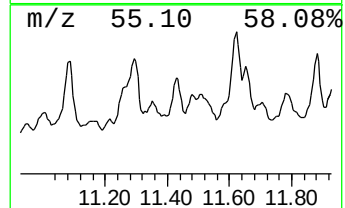
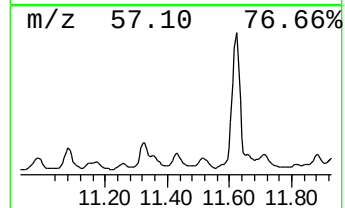
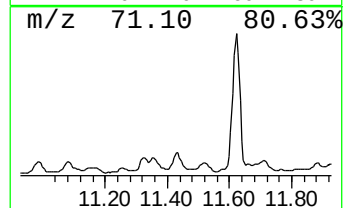
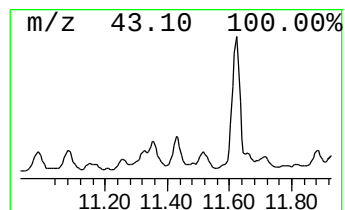
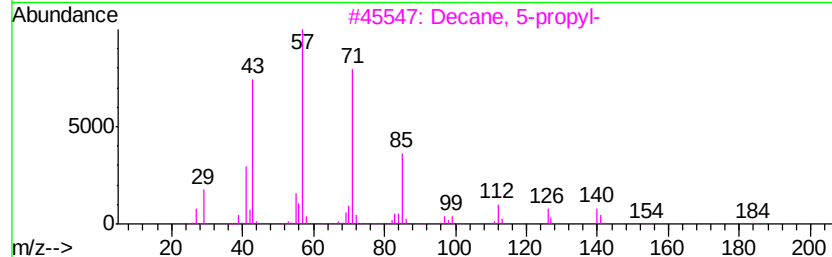
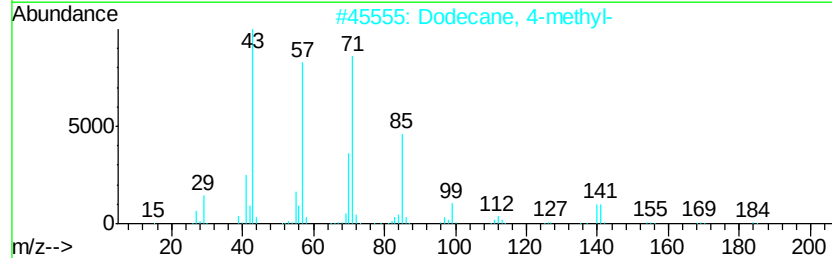
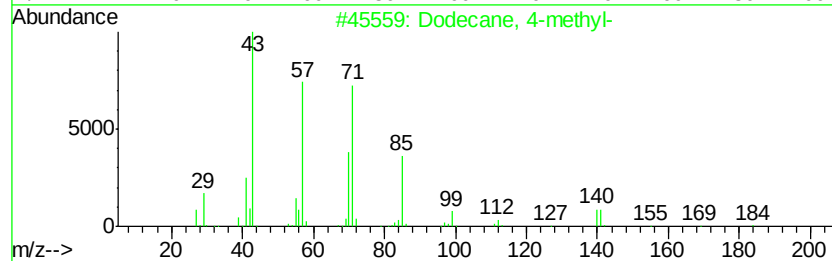
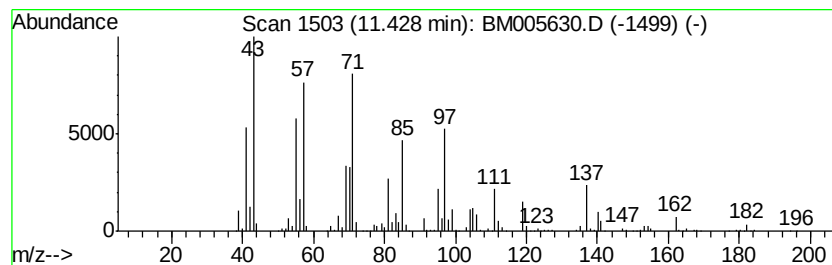
Instrument :  
BNA\_M  
ClientSampleId :  
JHGH6RE

Quant Method : Z:\HPCHEM1\BNA\_M\METHODS\SOM02.2-EPA-BM052016.M  
Quant Title : SVOA CALIBRATION

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

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Peak Number 48 (DEL) Alkane: Straight-Chai... Concentration Rank 37

| R.T.      | EstConc                             | Area    | Relative to ISTD | R.T.        |      |
|-----------|-------------------------------------|---------|------------------|-------------|------|
| 11.43     | 5.31 ng/ul                          | 1034730 | Napthalene-d8    | 10.60       |      |
| Hit# of 5 | Tentative ID                        | MW      | MolForm          | CAS#        | Qual |
| 1         | Dodecane, 4-methyl-                 | 184     | C13H28           | 006117-97-1 | 70   |
| 2         | Dodecane, 4-methyl-                 | 184     | C13H28           | 006117-97-1 | 46   |
| 3         | Decane, 5-propyl-                   | 184     | C13H28           | 017312-62-8 | 38   |
| 4         | Butanal, 4-[(tetrahydro-2H-pyran... | 172     | C9H16O3          | 054911-85-2 | 35   |
| 5         | Dodecane, 2,6,11-trimethyl-         | 212     | C15H32           | 031295-56-4 | 35   |



Data Path : Z:\HPCHEM1\BNA\_M\DATA\BM052316\  
Data File : BM005630.D  
Acq On : 24 May 2016 04:18  
Operator : UM/SJ  
Sample : H3086-11RE  
Misc :  
ALS Vial : 16 Sample Multiplier: 1

Instrument :  
BNA\_M  
ClientSampleId :  
JHGH6RE

Quant Method : Z:\HPCHEM1\BNA\_M\METHODS\SOM02.2-EPA-BM052016.M  
Quant Title : SVOA CALIBRATION

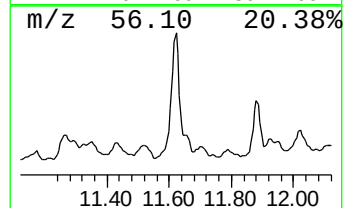
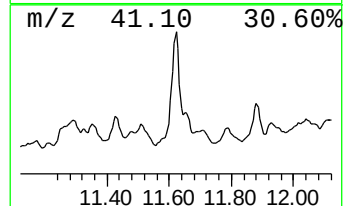
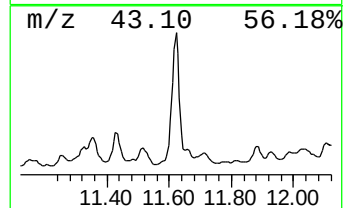
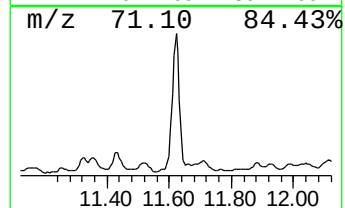
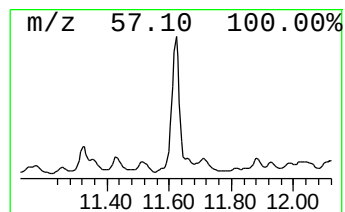
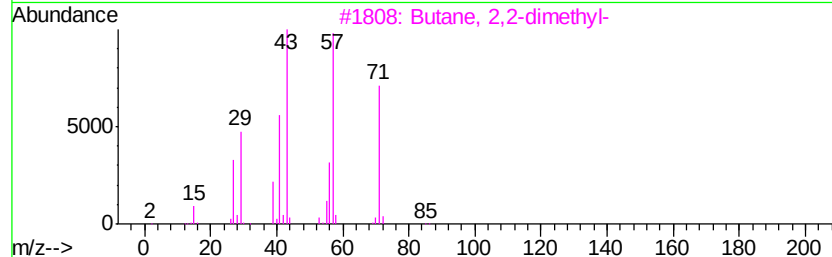
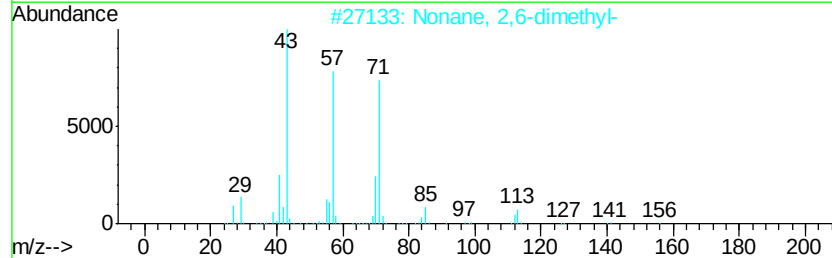
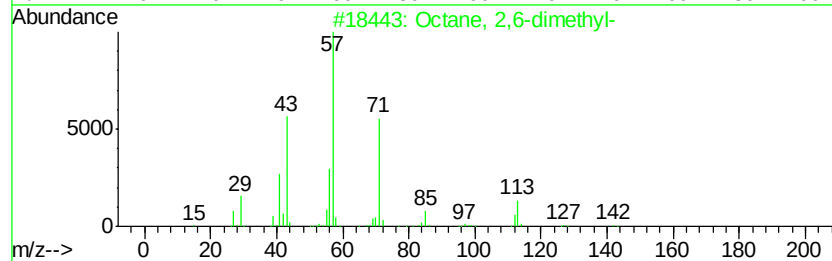
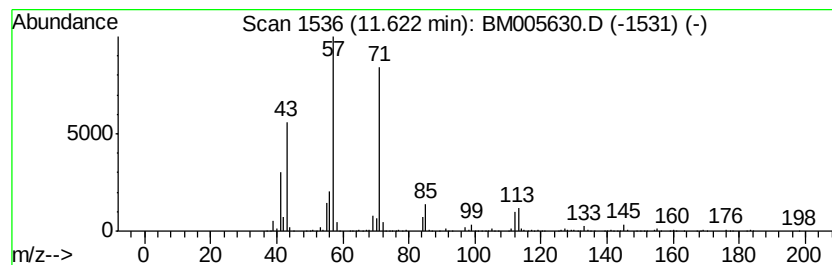
TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 49 (DEL) Alkane: Straight-Chai... Concentration Rank 11

| R.T.  | EstConc     | Area    | Relative to ISTD | R.T.  |
|-------|-------------|---------|------------------|-------|
| 11.62 | 24.25 ng/ul | 4728830 | Napthalene-d8    | 10.60 |

| Hit# | of | Tentative ID           | MW  | MolForm | CAS#        | Qual |
|------|----|------------------------|-----|---------|-------------|------|
| 1    | 5  | Octane, 2,6-dimethyl-  | 142 | C10H22  | 002051-30-1 | 86   |
| 2    |    | Nonane, 2,6-dimethyl-  | 156 | C11H24  | 017302-28-2 | 83   |
| 3    |    | Butane, 2,2-dimethyl-  | 86  | C6H14   | 000075-83-2 | 50   |
| 4    |    | Heptane, 3,3-dimethyl- | 128 | C9H20   | 004032-86-4 | 50   |
| 5    |    | Nonane, 3-methyl-      | 142 | C10H22  | 005911-04-6 | 47   |



Data Path : Z:\HPCHEM1\BNA\_M\DATA\BM052316\  
Data File : BM005630.D  
Acq On : 24 May 2016 04:18  
Operator : UM/SJ  
Sample : H3086-11RE  
Misc :  
ALS Vial : 16 Sample Multiplier: 1

Instrument :  
BNA\_M  
ClientSampleId :  
JHGH6RE

Quant Method : Z:\HPCHEM1\BNA\_M\METHODS\SOM02.2-EPA-BM052016.M  
Quant Title : SVOA CALIBRATION

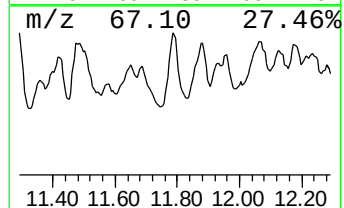
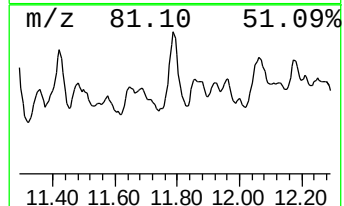
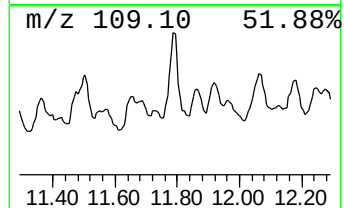
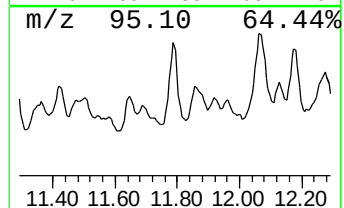
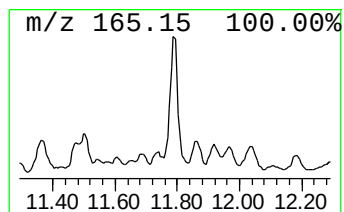
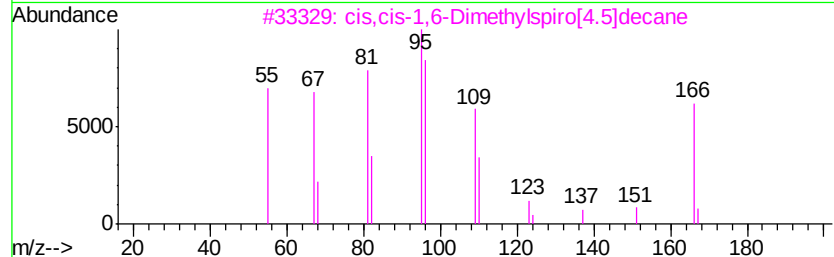
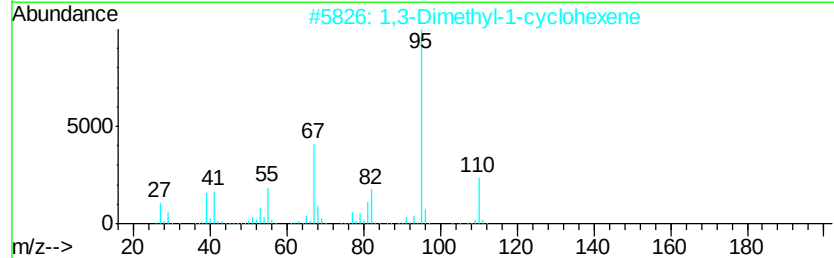
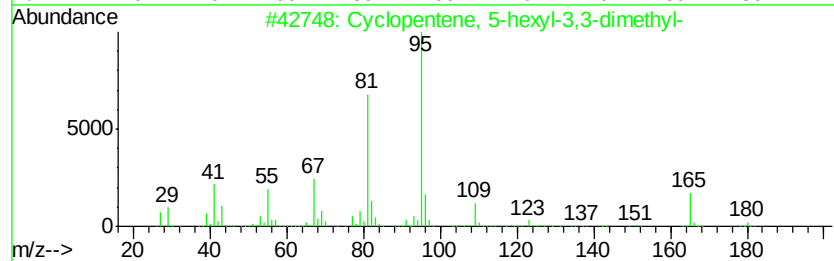
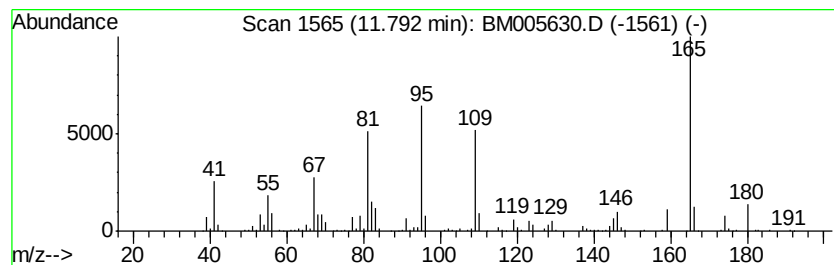
TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 50 (DEL) Alkane: Branched-11.79 Concentration Rank 35

| R.T.  | EstConc    | Area    | Relative to ISTD | R.T.  |
|-------|------------|---------|------------------|-------|
| 11.79 | 5.81 ng/ul | 1133840 | Napthalene-d8    | 10.60 |

| Hit# | of | 5 | Tentative ID                        | MW  | MolForm | CAS#         | Qual |
|------|----|---|-------------------------------------|-----|---------|--------------|------|
| 1    |    |   | Cyclopentene, 5-hexyl-3,3-dimethyl- | 180 | C13H24  | 061142-66-3  | 50   |
| 2    |    |   | 1,3-Dimethyl-1-cyclohexene          | 110 | C8H14   | 002808-76-6  | 35   |
| 3    |    |   | cis,cis-1,6-Dimethylspiro[4.5]de... | 166 | C12H22  | 1000111-72-4 | 35   |
| 4    |    |   | cis,cis-2,8-Dimethylspiro[5.5]un... | 180 | C13H24  | 095530-75-9  | 30   |
| 5    |    |   | trans,trans- and trans,cis-1,8-D... | 180 | C13H24  | 1000111-73-2 | 30   |





Data Path : Z:\HPCHEM1\BNA\_M\DATA\BM052316\  
Data File : BM005630.D  
Acq On : 24 May 2016 04:18  
Operator : UM/SJ  
Sample : H3086-11RE  
Misc :  
ALS Vial : 16 Sample Multiplier: 1

Instrument :  
BNA\_M  
ClientSampleId :  
JHGH6RE

Quant Method : Z:\HPCHEM1\BNA\_M\METHODS\SOM02.2-EPA-BM052016.M  
Quant Title : SVOA CALIBRATION

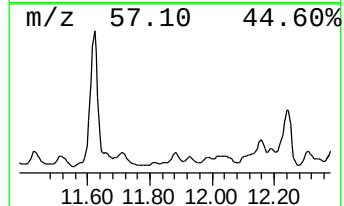
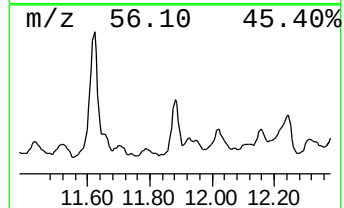
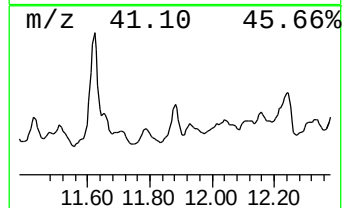
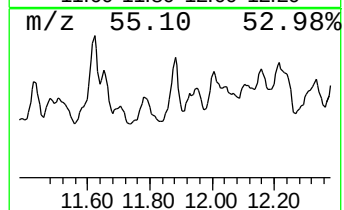
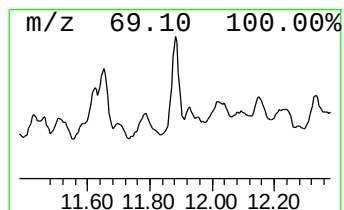
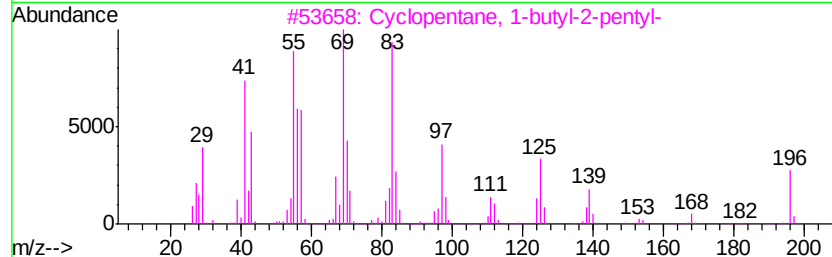
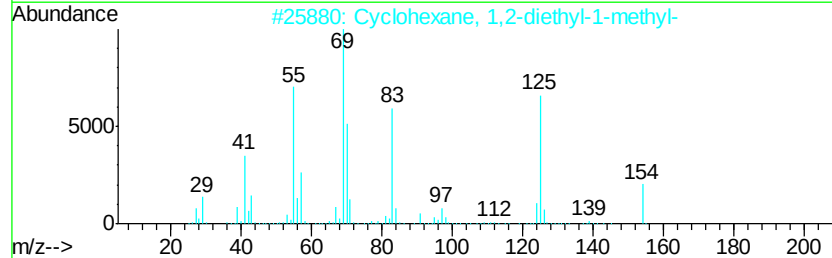
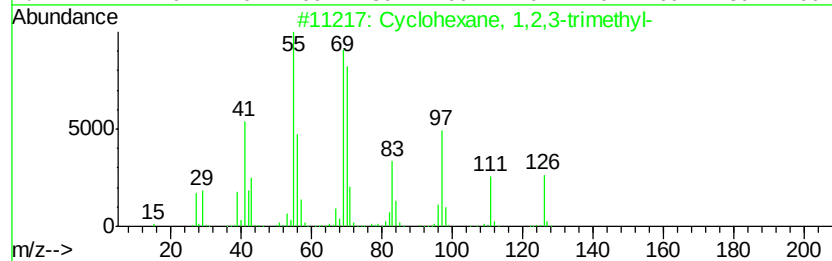
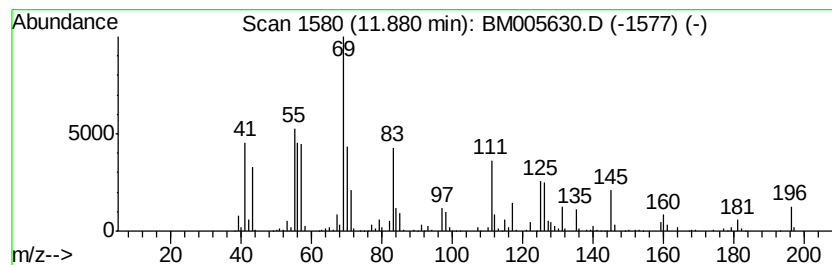
TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 51 (DEL) Alkane: Cyclic-11.88 Concentration Rank 32

| R.T.  | EstConc    | Area    | Relative to ISTD | R.T.  |
|-------|------------|---------|------------------|-------|
| 11.88 | 6.69 ng/ul | 1305200 | Napthalene-d8    | 10.60 |

| Hit# | of | 5 | Tentative ID                       | MW  | MolForm | CAS#        | Qual |
|------|----|---|------------------------------------|-----|---------|-------------|------|
| 1    |    |   | Cyclohexane, 1,2,3-trimethyl-      | 126 | C9H18   | 001678-97-3 | 52   |
| 2    |    |   | Cyclohexane, 1,2-diethyl-1-methyl- | 154 | C11H22  | 061141-79-5 | 50   |
| 3    |    |   | Cyclopentane, 1-butyl-2-pentyl-    | 196 | C14H28  | 061142-52-7 | 50   |
| 4    |    |   | 3-Heptene, 2,6-dimethyl-           | 126 | C9H18   | 002738-18-3 | 47   |
| 5    |    |   | Cyclopentane, ethyl-               | 98  | C7H14   | 001640-89-7 | 46   |



Data Path : Z:\HPCHEM1\BNA\_M\DATA\BM052316\  
Data File : BM005630.D  
Acq On : 24 May 2016 04:18  
Operator : UM/SJ  
Sample : H3086-11RE  
Misc :  
ALS Vial : 16 Sample Multiplier: 1

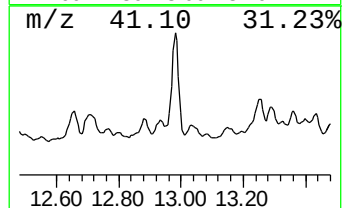
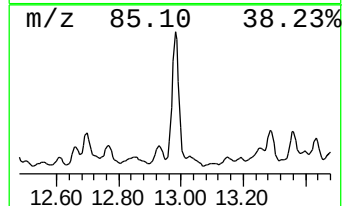
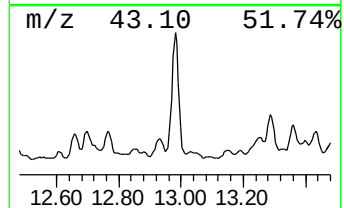
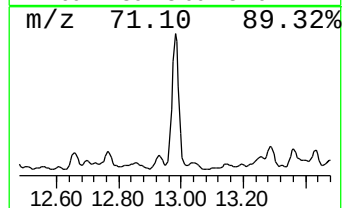
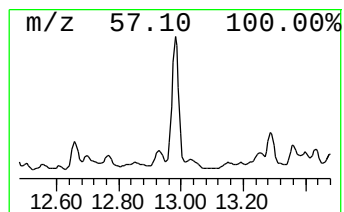
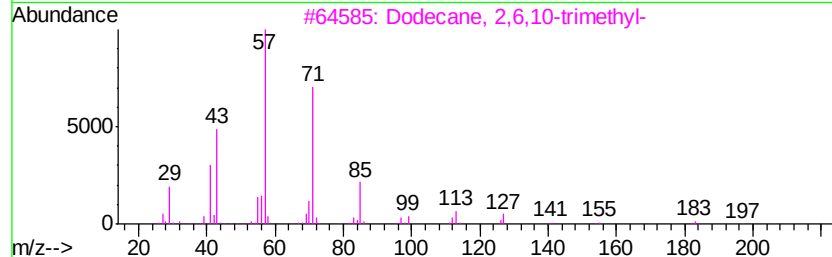
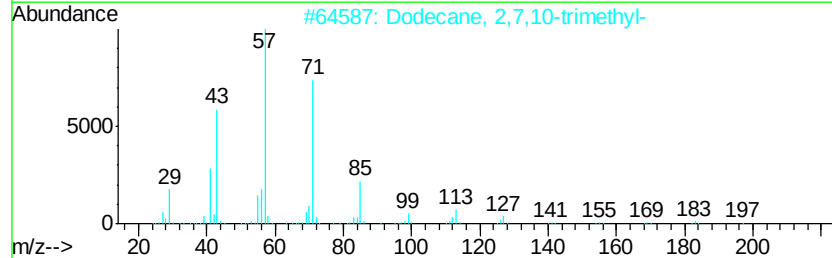
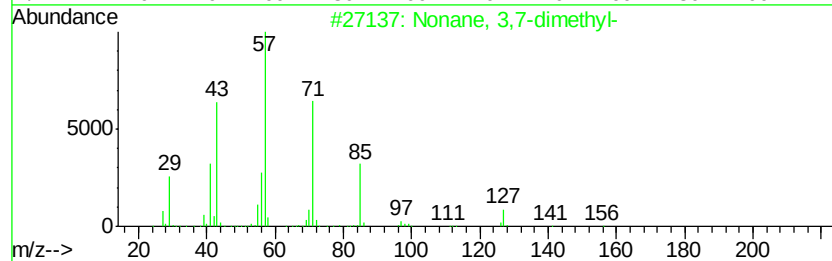
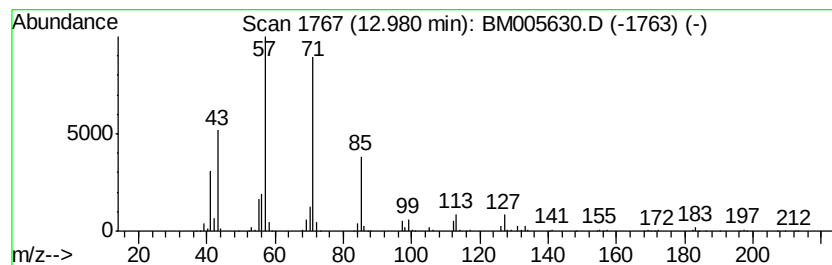
Instrument :  
BNA\_M  
ClientSampleId :  
JHGH6RE

Quant Method : Z:\HPCHEM1\BNA\_M\METHODS\SOM02.2-EPA-BM052016.M  
Quant Title : SVOA CALIBRATION

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

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Peak Number 53 (DEL) Alkane: Straight-Chai... Concentration Rank 1

| R.T.    | EstConc     | Area                        | Relative to ISTD | R.T.           |
|---------|-------------|-----------------------------|------------------|----------------|
| 12.98   | 86.05 ng/ul | 5259900                     | Acenaphthene-d10 | 14.45          |
| Hit# of | 5           | Tentative ID                | MW MolForm       | CAS# Qual      |
| 1       |             | Nonane, 3,7-dimethyl-       | 156 C11H24       | 017302-32-8 81 |
| 2       |             | Dodecane, 2,7,10-trimethyl- | 212 C15H32       | 074645-98-0 80 |
| 3       |             | Dodecane, 2,6,10-trimethyl- | 212 C15H32       | 003891-98-3 80 |
| 4       |             | Pentadecane, 7-methyl-      | 226 C16H34       | 006165-40-8 72 |
| 5       |             | Bacchotricuneatin c         | 342 C20H22O5     | 066563-30-2 72 |



Data Path : Z:\HPCHEM1\BNA\_M\DATA\BM052316\  
Data File : BM005630.D  
Acq On : 24 May 2016 04:18  
Operator : UM/SJ  
Sample : H3086-11RE  
Misc :  
ALS Vial : 16 Sample Multiplier: 1

Instrument :  
BNA\_M  
ClientSampleId :  
JHGH6RE

Quant Method : Z:\HPCHEM1\BNA\_M\METHODS\SOM02.2-EPA-BM052016.M  
Quant Title : SVOA CALIBRATION

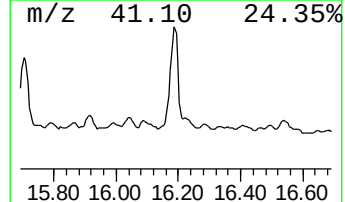
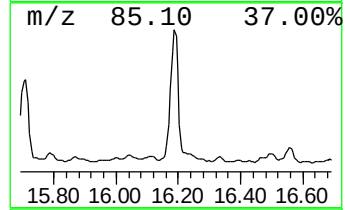
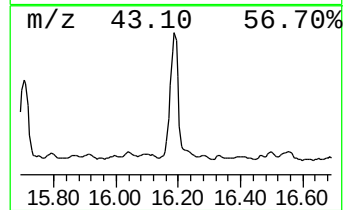
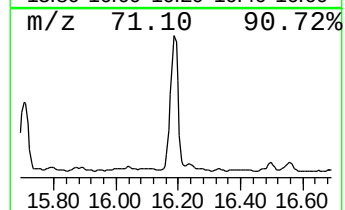
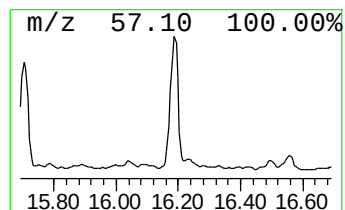
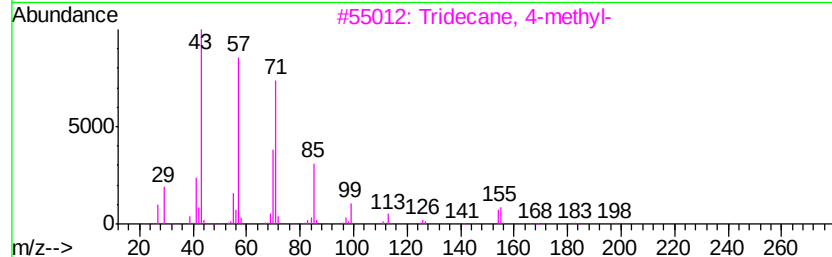
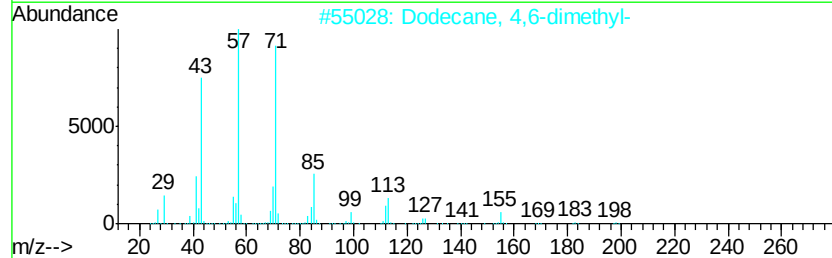
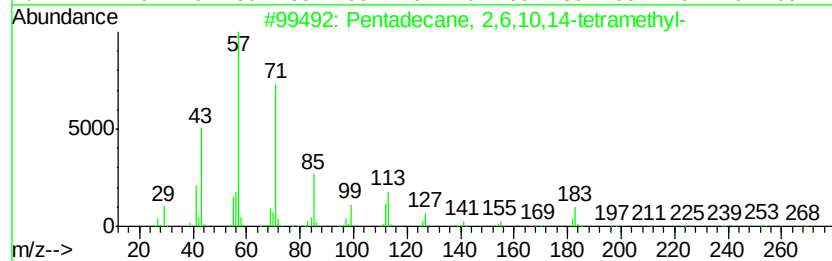
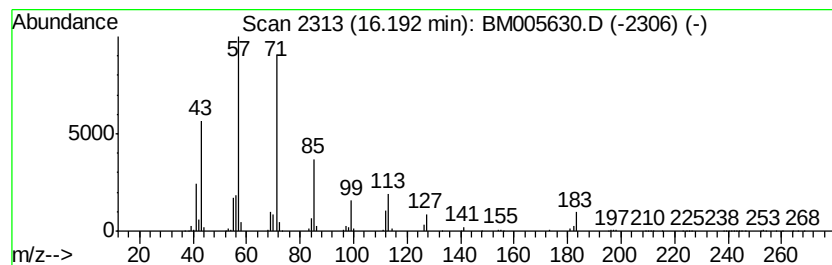
TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 60 (DEL) Alkane: Straight-Chai... Concentration Rank 2

| R.T.  | EstConc     | Area     | Relative to ISTD | R.T.  |
|-------|-------------|----------|------------------|-------|
| 16.19 | 71.38 ng/ul | 10868700 | Phenanthrene-d10 | 17.20 |

| Hit# | of | Tentative ID                        | MW  | MolForm | CAS#        | Qual |
|------|----|-------------------------------------|-----|---------|-------------|------|
| 1    | 5  | Pentadecane, 2,6,10,14-tetramethyl- | 268 | C19H40  | 001921-70-6 | 90   |
| 2    |    | Dodecane, 4,6-dimethyl-             | 198 | C14H30  | 061141-72-8 | 80   |
| 3    |    | Tridecane, 4-methyl-                | 198 | C14H30  | 026730-12-1 | 76   |
| 4    |    | Nonane, 3,7-dimethyl-               | 156 | C11H24  | 017302-32-8 | 70   |
| 5    |    | Tridecane, 4-methyl-                | 198 | C14H30  | 026730-12-1 | 64   |



Data Path : Z:\HPCHEM1\BNA\_M\DATA\BM052316\  
Data File : BM005630.D  
Acq On : 24 May 2016 04:18  
Operator : UM/SJ  
Sample : H3086-11RE  
Misc :  
ALS Vial : 16 Sample Multiplier: 1

Instrument :  
BNA\_M  
ClientSampleId :  
JHGH6RE

Quant Method : Z:\HPCHEM1\BNA\_M\METHODS\SOM02.2-EPA-BM052016.M  
Quant Title : SVOA CALIBRATION

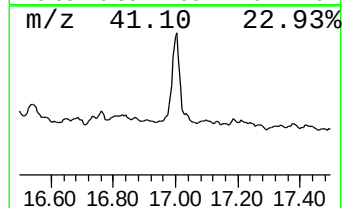
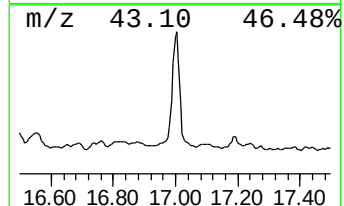
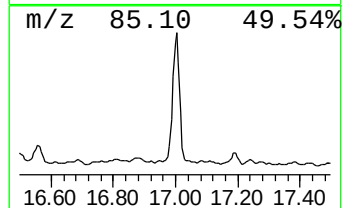
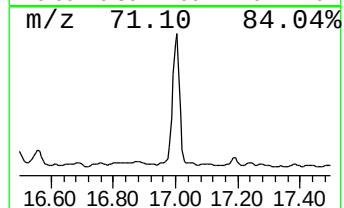
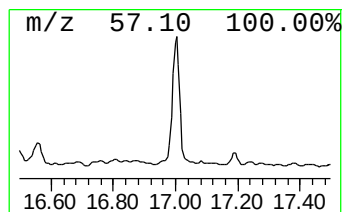
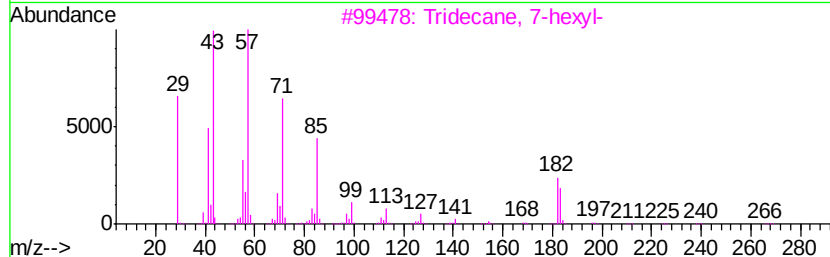
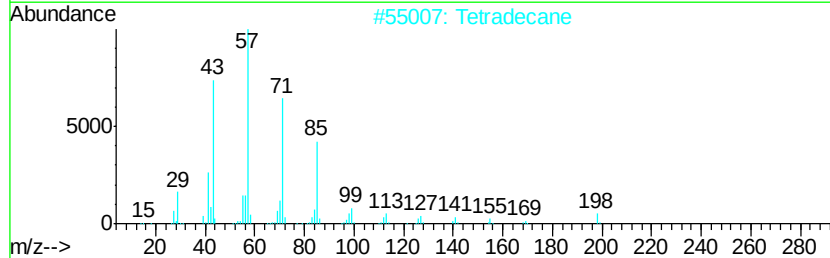
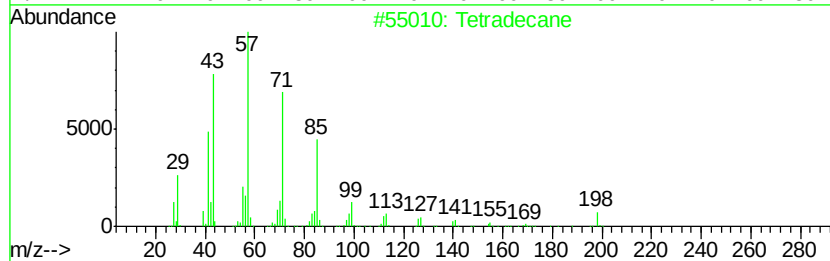
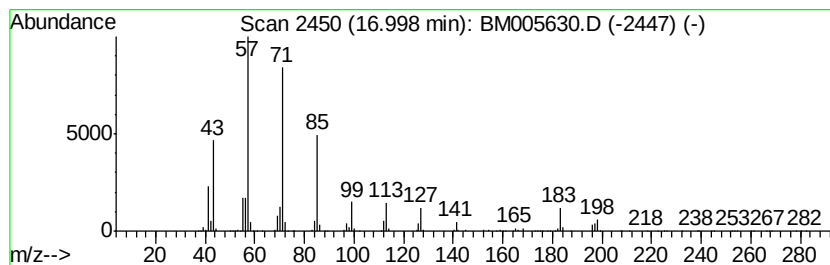
TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 63 (DEL) Alkane: Straight-Chai... Concentration Rank 12

| R.T.  | EstConc     | Area    | Relative to ISTD | R.T.  |
|-------|-------------|---------|------------------|-------|
| 17.00 | 23.24 ng/ul | 3538500 | Phenanthrene-d10 | 17.20 |

| Hit# | of | Tentative ID                        | MW  | MolForm | CAS#        | Qual |
|------|----|-------------------------------------|-----|---------|-------------|------|
| 1    | 5  | Tetradecane                         | 198 | C14H30  | 000629-59-4 | 91   |
| 2    |    | Tetradecane                         | 198 | C14H30  | 000629-59-4 | 90   |
| 3    |    | Tridecane, 7-hexyl-                 | 268 | C19H40  | 007225-66-3 | 87   |
| 4    |    | Hexadecane                          | 226 | C16H34  | 000544-76-3 | 83   |
| 5    |    | Heptadecane, 2,6,10,15-tetramethyl- | 296 | C21H44  | 054833-48-6 | 80   |



Data Path : Z:\HPCHEM1\BNA\_M\DATA\BM052316\  
Data File : BM005630.D  
Acq On : 24 May 2016 04:18  
Operator : UM/SJ  
Sample : H3086-11RE  
Misc :  
ALS Vial : 16 Sample Multiplier: 1

Instrument :  
BNA\_M  
ClientSampleId :  
JHGH6RE

Quant Method : Z:\HPCHEM1\BNA\_M\METHODS\SOM02.2-EPA-BM052016.M  
Quant Title : SVOA CALIBRATION

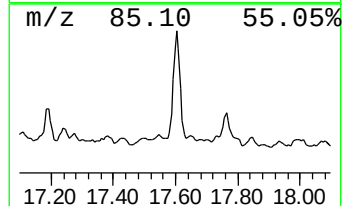
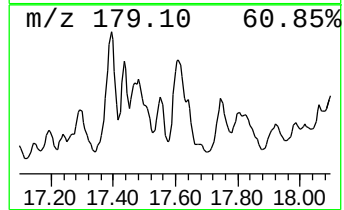
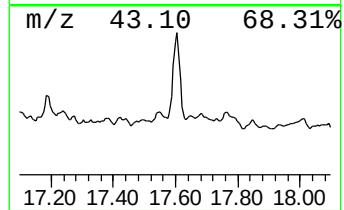
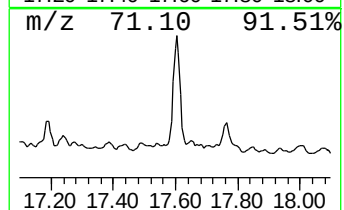
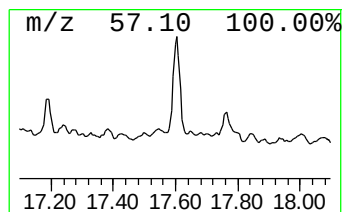
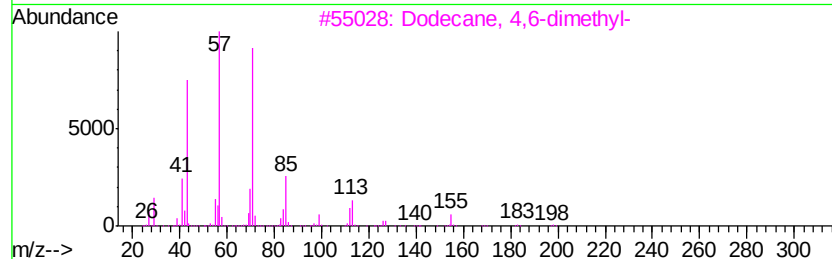
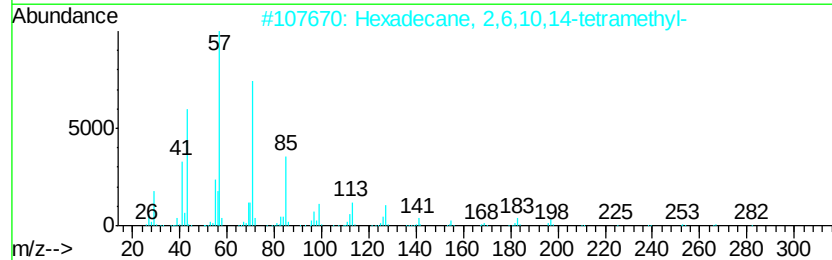
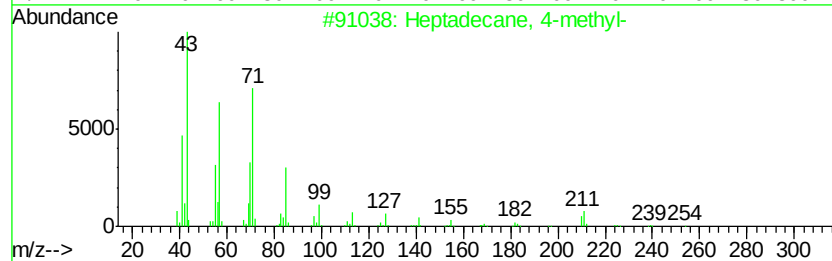
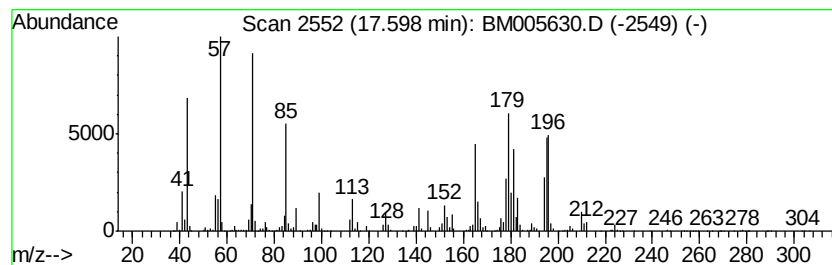
TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 64 (DEL) Alkane: Straight-Chai... Concentration Rank 16

| R.T.  | EstConc     | Area    | Relative to ISTD | R.T.  |
|-------|-------------|---------|------------------|-------|
| 17.60 | 15.52 ng/ul | 2363170 | Phenanthrene-d10 | 17.20 |

| Hit# | of | Tentative ID                       | MW  | MolForm | CAS#        | Qual |
|------|----|------------------------------------|-----|---------|-------------|------|
| 1    | 5  | Heptadecane, 4-methyl-             | 254 | C18H38  | 026429-11-8 | 38   |
| 2    |    | Hexadecane, 2,6,10,14-tetramethyl- | 282 | C20H42  | 000638-36-8 | 35   |
| 3    |    | Dodecane, 4,6-dimethyl-            | 198 | C14H30  | 061141-72-8 | 35   |
| 4    |    | Pentadecane                        | 212 | C15H32  | 000629-62-9 | 30   |
| 5    |    | Tetratriacontane                   | 479 | C34H70  | 014167-59-0 | 30   |



Data Path : Z:\HPCHEM1\BNA\_M\DATA\BM052316\  
 Data File : BM005630.D  
 Acq On : 24 May 2016 04:18  
 Operator : UM/SJ  
 Sample : H3086-11RE  
 Misc :  
 ALS Vial : 16 Sample Multiplier: 1

Instrument :  
 BNA\_M  
 ClientSampleId :  
 JHGH6RE

Quant Method : Z:\HPCHEM1\BNA\_M\METHODS\SOM02.2-EPA-BM052016.M  
 Quant Title : SVOA CALIBRATION

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

| TIC Top Hit name      | RT    | EstConc | Units | Response | --Internal Standard-- |       |         |      |
|-----------------------|-------|---------|-------|----------|-----------------------|-------|---------|------|
|                       |       |         |       |          | #                     | RT    | Resp    | Conc |
| 2-Pentanone, 4-hy...  | 4.92  | 8.1     | ng/ul | 457941   | 1                     | 7.80  | 1131900 | 20.0 |
| (DEL) Alkane: Cyc...  | 5.01  | 2.5     | ng/ul | 139622   | 1                     | 7.80  | 1131900 | 20.0 |
| Cyclooctanemethanol   | 5.90  | 2.1     | ng/ul | 118051   | 1                     | 7.80  | 1131900 | 20.0 |
| (DEL) Alkane: Cyc...  | 6.08  | 7.7     | ng/ul | 437771   | 1                     | 7.80  | 1131900 | 20.0 |
| (DEL) Alkane: Cyc...  | 6.19  | 2.3     | ng/ul | 129927   | 1                     | 7.80  | 1131900 | 20.0 |
| (DEL) Alkane: Bra...  | 6.31  | 4.8     | ng/ul | 274141   | 1                     | 7.80  | 1131900 | 20.0 |
| (DEL) Alkane: Str...  | 6.36  | 2.9     | ng/ul | 161531   | 1                     | 7.80  | 1131900 | 20.0 |
| (DEL) Alkane: Str...  | 6.40  | 3.4     | ng/ul | 192889   | 1                     | 7.80  | 1131900 | 20.0 |
| (DEL) Alkane: Str...  | 6.47  | 11.1    | ng/ul | 629565   | 1                     | 7.80  | 1131900 | 20.0 |
| (DEL) Alkane: Cyc...  | 6.56  | 2.6     | ng/ul | 144904   | 1                     | 7.80  | 1131900 | 20.0 |
| (DEL) Alkane: Cyc...  | 6.62  | 3.0     | ng/ul | 169607   | 1                     | 7.80  | 1131900 | 20.0 |
| (DEL) Alkane: Str...  | 6.68  | 3.1     | ng/ul | 178147   | 1                     | 7.80  | 1131900 | 20.0 |
| (DEL) Alkane: Bra...  | 6.79  | 2.4     | ng/ul | 138227   | 1                     | 7.80  | 1131900 | 20.0 |
| (DEL) Alkane: Cyc...  | 6.89  | 2.8     | ng/ul | 156041   | 1                     | 7.80  | 1131900 | 20.0 |
| 2,4-Nonadienal, (...) | 7.08  | 2.3     | ng/ul | 130557   | 1                     | 7.80  | 1131900 | 20.0 |
| (DEL) Alkane: Cyc...  | 7.52  | 8.7     | ng/ul | 494711   | 1                     | 7.80  | 1131900 | 20.0 |
| unknown-01            | 7.62  | 4.8     | ng/ul | 273700   | 1                     | 7.80  | 1131900 | 20.0 |
| unknown-02            | 7.72  | 10.9    | ng/ul | 619176   | 1                     | 7.80  | 1131900 | 20.0 |
| (DEL) Alkane: Bra...  | 7.87  | 6.7     | ng/ul | 377750   | 1                     | 7.80  | 1131900 | 20.0 |
| 2-Cyclopenten-1-o...  | 7.94  | 5.7     | ng/ul | 321714   | 1                     | 7.80  | 1131900 | 20.0 |
| unknown-03            | 7.98  | 7.0     | ng/ul | 394580   | 1                     | 7.80  | 1131900 | 20.0 |
| (DEL) Alkane: Bra...  | 8.03  | 2.4     | ng/ul | 137036   | 1                     | 7.80  | 1131900 | 20.0 |
| 2,4-Dimethyl-1,5-...  | 8.15  | 3.8     | ng/ul | 214670   | 1                     | 7.80  | 1131900 | 20.0 |
| (DEL) Alkane: Bra...  | 8.21  | 2.4     | ng/ul | 138192   | 1                     | 7.80  | 1131900 | 20.0 |
| unknown-04            | 8.32  | 11.5    | ng/ul | 650582   | 1                     | 7.80  | 1131900 | 20.0 |
| (DEL) Alkane: Cyc...  | 8.35  | 5.2     | ng/ul | 291787   | 1                     | 7.80  | 1131900 | 20.0 |
| (DEL) Alkane: Bra...  | 8.63  | 16.1    | ng/ul | 913260   | 1                     | 7.80  | 1131900 | 20.0 |
| (DEL) Alkane: Bra...  | 8.79  | 9.2     | ng/ul | 518560   | 1                     | 7.80  | 1131900 | 20.0 |
| unknown-05            | 8.90  | 25.3    | ng/ul | 1432380  | 1                     | 7.80  | 1131900 | 20.0 |
| (DEL) Alkane: Bra...  | 9.06  | 4.7     | ng/ul | 265169   | 1                     | 7.80  | 1131900 | 20.0 |
| (DEL) Alkane: Cyc...  | 9.11  | 10.3    | ng/ul | 584242   | 1                     | 7.80  | 1131900 | 20.0 |
| (DEL) Alkane: Cyc...  | 9.15  | 16.1    | ng/ul | 908681   | 1                     | 7.80  | 1131900 | 20.0 |
| (DEL) Alkane: Str...  | 9.44  | 2.1     | ng/ul | 413392   | 2                     | 10.60 | 3900820 | 20.0 |
| (DEL) Alkane: Bra...  | 9.77  | 11.0    | ng/ul | 2144690  | 2                     | 10.60 | 3900820 | 20.0 |
| (DEL) Alkane: Bra...  | 9.87  | 2.6     | ng/ul | 498513   | 2                     | 10.60 | 3900820 | 20.0 |
| (DEL) Alkane: Str...  | 9.94  | 3.9     | ng/ul | 758497   | 2                     | 10.60 | 3900820 | 20.0 |
| (DEL) Alkane: Str...  | 10.02 | 4.5     | ng/ul | 871865   | 2                     | 10.60 | 3900820 | 20.0 |
| (DEL) Alkane: Bra...  | 10.38 | 3.4     | ng/ul | 669742   | 2                     | 10.60 | 3900820 | 20.0 |
| (DEL) Alkane: Bra...  | 10.89 | 4.1     | ng/ul | 794011   | 2                     | 10.60 | 3900820 | 20.0 |
| (DEL) Alkane: Cyc...  | 11.08 | 10.4    | ng/ul | 2026760  | 2                     | 10.60 | 3900820 | 20.0 |
| (DEL) Alkane: Bra...  | 11.26 | 6.1     | ng/ul | 1180980  | 2                     | 10.60 | 3900820 | 20.0 |
| (DEL) Alkane: Str...  | 11.43 | 5.3     | ng/ul | 1034730  | 2                     | 10.60 | 3900820 | 20.0 |
| (DEL) Alkane: Str...  | 11.62 | 24.3    | ng/ul | 4728830  | 2                     | 10.60 | 3900820 | 20.0 |
| (DEL) Alkane: Bra...  | 11.79 | 5.8     | ng/ul | 1133840  | 2                     | 10.60 | 3900820 | 20.0 |
| (DEL) Alkane: Cyc...  | 11.88 | 6.7     | ng/ul | 1305200  | 2                     | 10.60 | 3900820 | 20.0 |
| (DEL) Alkane: Str...  | 12.98 | 86.0    | ng/ul | 5259900  | 3                     | 14.45 | 1222500 | 20.0 |
| (DEL) Alkane: Str...  | 16.19 | 71.4    | ng/ul | 10868700 | 4                     | 17.20 | 3045240 | 20.0 |
| (DEL) Alkane: Str...  | 17.00 | 23.2    | ng/ul | 3538500  | 4                     | 17.20 | 3045240 | 20.0 |
| (DEL) Alkane: Str...  | 17.60 | 15.5    | ng/ul | 2363170  | 4                     | 17.20 | 3045240 | 20.0 |