

Data Path : Z:\HPCHEM1\BNA\_M\DATA\BM070216\  
 Data File : BM006214.D  
 Acq On : 03 Jul 2016 00:08  
 Operator : UM/SJ  
 Sample : H3797-20  
 Misc :  
 ALS Vial : 24 Sample Multiplier: 1

Instrument :  
 BNA\_M  
 ClientSampleId :  
 BDHR9

## 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-BM070216.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         | 3.422       | 138           | 142         | 150          | rBV      | 67568          | 102659        | 1.11%           | 0.093%        |
| 2         | 4.199       | 269           | 274         | 288          | rVB      | 861548         | 1137346       | 12.30%          | 1.032%        |
| 3         | 4.787       | 368           | 374         | 385          | rVB      | 966333         | 1313722       | 14.20%          | 1.192%        |
| 4         | 5.399       | 472           | 478         | 484          | rVB      | 102856         | 152933        | 1.65%           | 0.139%        |
| 5         | 6.828       | 713           | 721         | 738          | rVB      | 1831728        | 3178184       | 34.36%          | 2.883%        |
| 6         | 6.987       | 741           | 748         | 760          | rBV      | 1371832        | 2160881       | 23.36%          | 1.960%        |
| 7         | 7.181       | 772           | 781         | 792          | rBV      | 1805466        | 2896636       | 31.31%          | 2.628%        |
| 8         | 7.646       | 853           | 860         | 868          | rBV      | 1263340        | 2034376       | 21.99%          | 1.846%        |
| 9         | 8.357       | 968           | 981         | 1003         | rBV      | 2303018        | 3856183       | 41.69%          | 3.498%        |
| 10        | 8.804       | 1047          | 1057        | 1070         | rBV      | 1732352        | 3017625       | 32.62%          | 2.738%        |
| 11        | 9.522       | 1171          | 1179        | 1194         | rBV      | 1527825        | 2666575       | 28.83%          | 2.419%        |
| 12        | 9.687       | 1200          | 1207        | 1213         | rBV      | 62444          | 130567        | 1.41%           | 0.118%        |
| 13        | 10.057      | 1262          | 1270        | 1285         | rBV      | 2103064        | 3850708       | 41.63%          | 3.493%        |
| 14        | 10.428      | 1325          | 1333        | 1349         | rBV      | 1921960        | 3308617       | 35.77%          | 3.002%        |
| 15        | 10.569      | 1349          | 1357        | 1373         | rBV      | 1856064        | 3389980       | 36.65%          | 3.075%        |
| 16        | 11.957      | 1584          | 1593        | 1601         | rBV      | 129449         | 264528        | 2.86%           | 0.240%        |
| 17        | 13.710      | 1884          | 1891        | 1896         | rBV      | 3620604        | 5555772       | 60.06%          | 5.040%        |
| 18        | 13.757      | 1896          | 1899        | 1916         | rVB      | 1554100        | 2180886       | 23.58%          | 1.979%        |
| 19        | 13.992      | 1929          | 1939        | 1953         | rBV      | 4131412        | 6533971       | 70.63%          | 5.928%        |
| 20        | 14.298      | 1984          | 1991        | 2003         | rBV2     | 2710338        | 4460864       | 48.22%          | 4.047%        |
| 21        | 14.516      | 2019          | 2028        | 2047         | rBV      | 2183441        | 3447292       | 37.27%          | 3.127%        |
| 22        | 15.298      | 2154          | 2161        | 2169         | rBV      | 5055483        | 7757350       | 83.86%          | 7.038%        |
| 23        | 15.428      | 2177          | 2183        | 2196         | rBV      | 2073306        | 3013933       | 32.58%          | 2.734%        |
| 24        | 15.533      | 2196          | 2201        | 2206         | rBV2     | 68936          | 111321        | 1.20%           | 0.101%        |
| 25        | 16.022      | 2280          | 2284        | 2291         | rBV      | 65331          | 112335        | 1.21%           | 0.102%        |
| 26        | 16.816      | 2414          | 2419        | 2430         | rBV2     | 137469         | 273852        | 2.96%           | 0.248%        |
| 27        | 17.051      | 2452          | 2459        | 2468         | rBV      | 3469249        | 5318617       | 57.50%          | 4.825%        |
| 28        | 17.151      | 2468          | 2476        | 2488         | rVB      | 5350480        | 8235824       | 89.03%          | 7.472%        |
| 29        | 17.551      | 2540          | 2544        | 2554         | rVB      | 75859          | 131851        | 1.43%           | 0.120%        |
| 30        | 19.080      | 2800          | 2804        | 2808         | rBV      | 78217          | 104333        | 1.13%           | 0.095%        |
| 31        | 19.333      | 2842          | 2847        | 2853         | rBV      | 74157          | 100295        | 1.08%           | 0.091%        |
| 32        | 19.451      | 2860          | 2867        | 2874         | rBV2     | 6184286        | 9250424       | 100.00%         | 8.392%        |
| 33        | 20.962      | 3120          | 3124        | 3132         | rBV      | 177462         | 276803        | 2.99%           | 0.251%        |
| 34        | 21.245      | 3166          | 3172        | 3184         | rBV2     | 4208205        | 5896255       | 63.74%          | 5.349%        |

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ClientSampleId :  
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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

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Title : SVOA CALIBRATION

|    |        |      |      |      |      |         |         |        |        |
|----|--------|------|------|------|------|---------|---------|--------|--------|
| 35 | 22.286 | 3346 | 3349 | 3353 | rVB  | 109038  | 131555  | 1.42%  | 0.119% |
| 36 | 22.409 | 3366 | 3370 | 3377 | rVB  | 612997  | 836185  | 9.04%  | 0.759% |
| 37 | 22.786 | 3430 | 3434 | 3439 | rBV3 | 138929  | 215794  | 2.33%  | 0.196% |
| 38 | 23.321 | 3518 | 3525 | 3538 | rVB2 | 3691607 | 7443122 | 80.46% | 6.753% |
| 39 | 23.462 | 3542 | 3549 | 3559 | rVB  | 2410443 | 4603105 | 49.76% | 4.176% |
| 40 | 23.974 | 3632 | 3636 | 3643 | rVB  | 183121  | 328457  | 3.55%  | 0.298% |
| 41 | 24.703 | 3755 | 3760 | 3771 | rVB2 | 187109  | 444771  | 4.81%  | 0.404% |

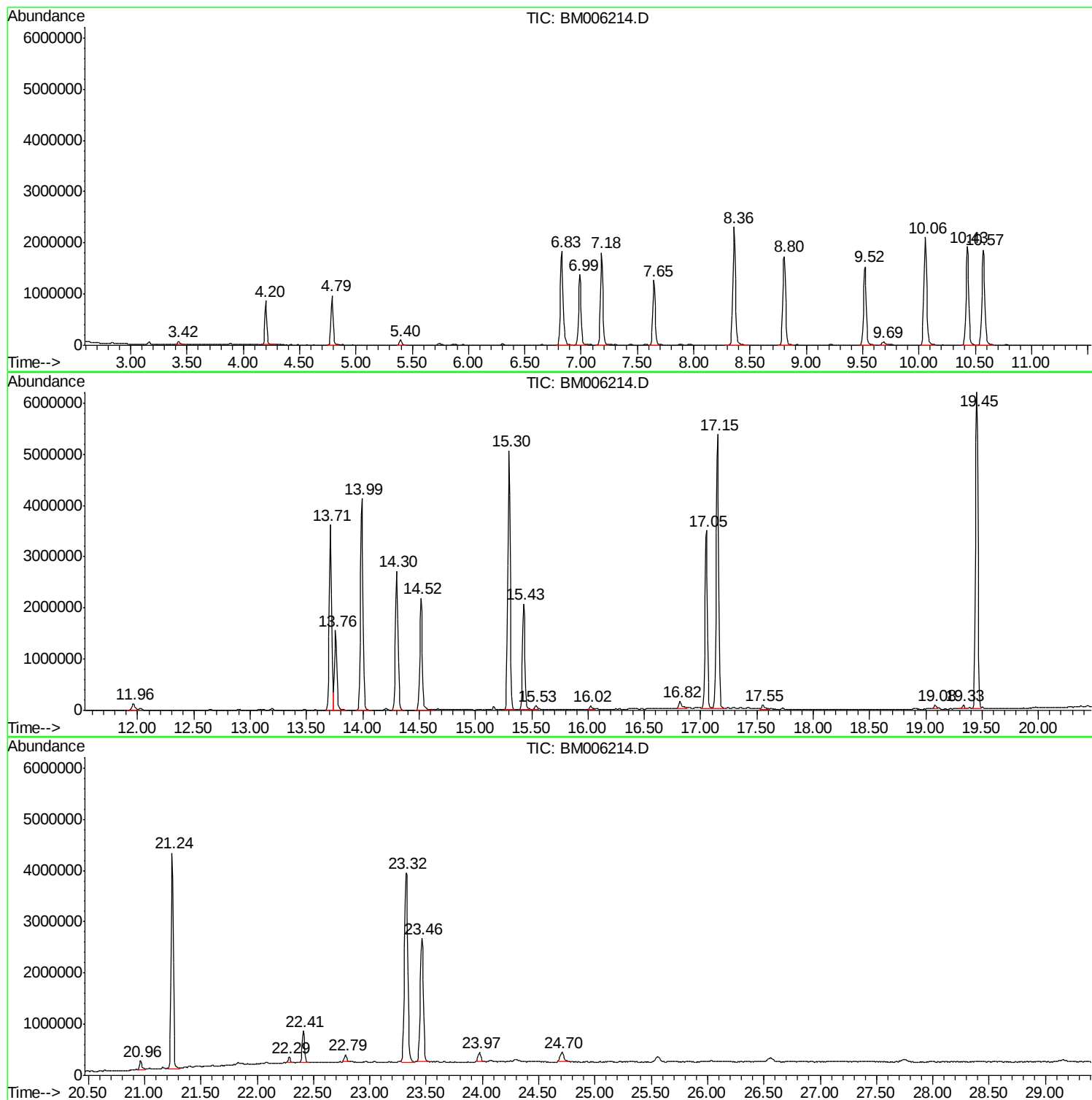
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Quant Method : Z:\HPCHEM1\BNA\_M\METHODS\SOM02.2-EPA-BM070216.M  
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TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P



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Instrument :  
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ClientSampleId :  
BDHR9

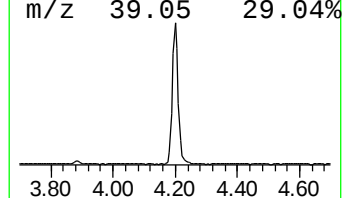
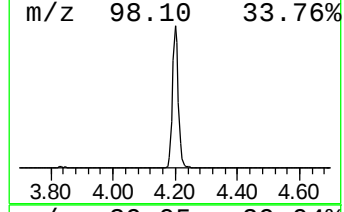
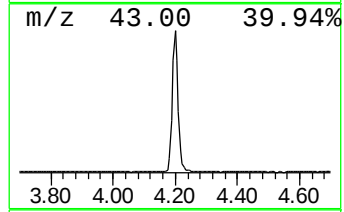
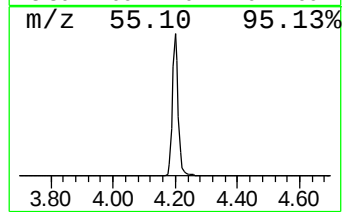
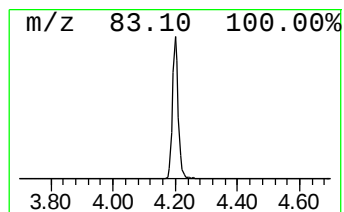
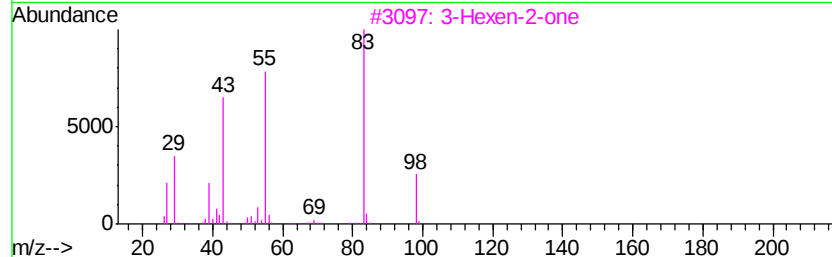
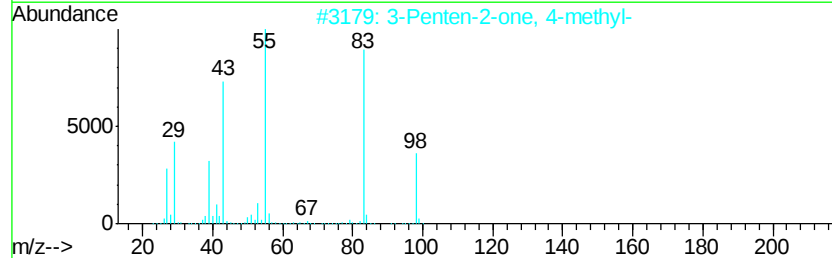
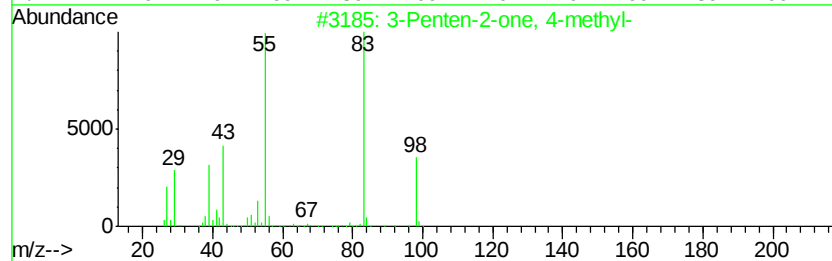
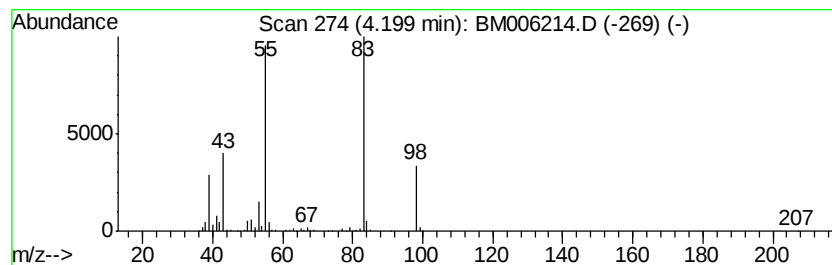
Quant Method : Z:\HPCHEM1\BNA\_M\METHODS\SOM02.2-EPA-BM070216.M  
Quant Title : SVOA CALIBRATION

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

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Peak Number 1 3-Penten-2-one, 4-methyl- Concentration Rank 2

| R.T. | EstConc     | Area    | Relative to ISTD       | R.T. |
|------|-------------|---------|------------------------|------|
| 4.20 | 11.18 ng/ul | 1137350 | 1,4-Dichlorobenzene-d4 | 7.65 |

| Hit# | of | 5 | Tentative ID                   | MW | MolForm | CAS#        | Qual |
|------|----|---|--------------------------------|----|---------|-------------|------|
| 1    |    |   | 3-Penten-2-one, 4-methyl-      | 98 | C6H10O  | 000141-79-7 | 95   |
| 2    |    |   | 3-Penten-2-one, 4-methyl-      | 98 | C6H10O  | 000141-79-7 | 91   |
| 3    |    |   | 3-Hexen-2-one                  | 98 | C6H10O  | 000763-93-9 | 91   |
| 4    |    |   | 2-Pentene, 3,4-dimethyl-, (E)- | 98 | C7H14   | 004914-92-5 | 90   |
| 5    |    |   | 3-Hexen-2-one                  | 98 | C6H10O  | 000763-93-9 | 87   |



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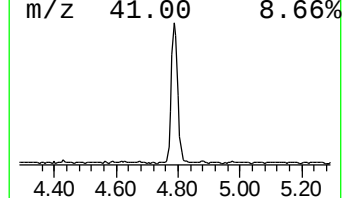
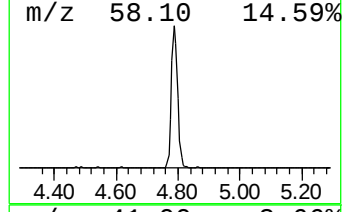
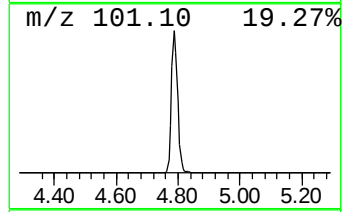
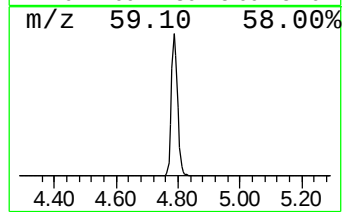
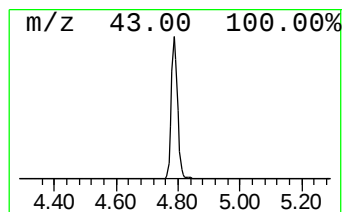
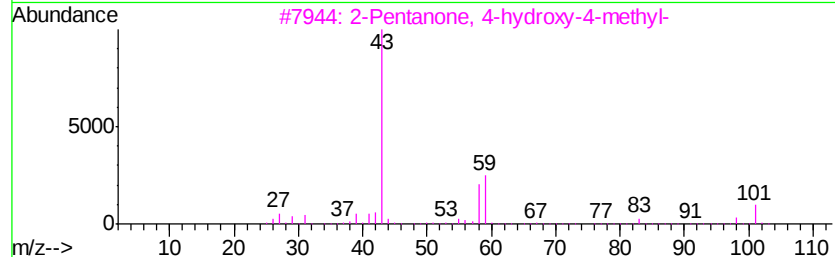
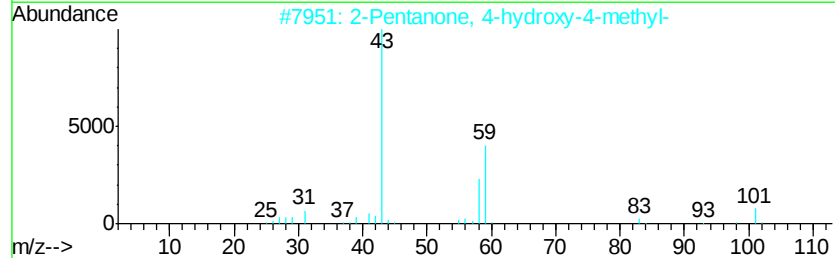
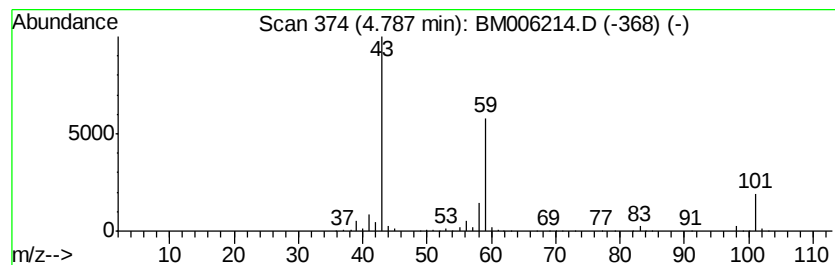
TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P

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

| R.T. | EstConc     | Area    | Relative to ISTD       | R.T. |
|------|-------------|---------|------------------------|------|
| 4.79 | 12.92 ng/ul | 1313720 | 1,4-Dichlorobenzene-d4 | 7.65 |

| Hit# | of | Tentative ID                        | MW  | MolForm  | CAS#        | Qual |
|------|----|-------------------------------------|-----|----------|-------------|------|
| 1    | 5  | 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 | 33   |
| 4    |    | 3-Hexanol, 4-methyl-                | 116 | C7H16O   | 000615-29-2 | 28   |
| 5    |    | Acetic acid, cyano-, 1,1-dimethy... | 141 | C7H11NO2 | 001116-98-9 | 23   |



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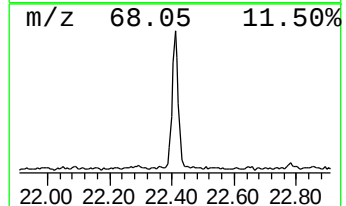
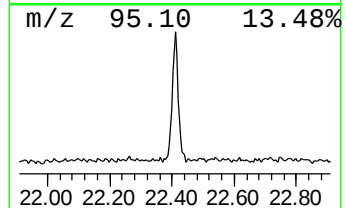
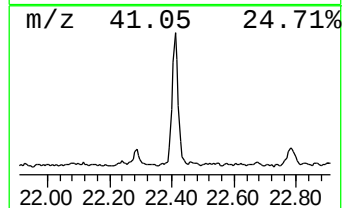
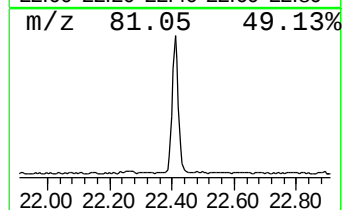
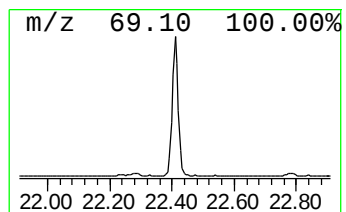
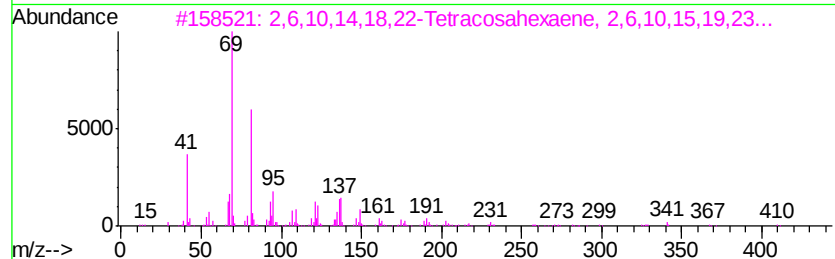
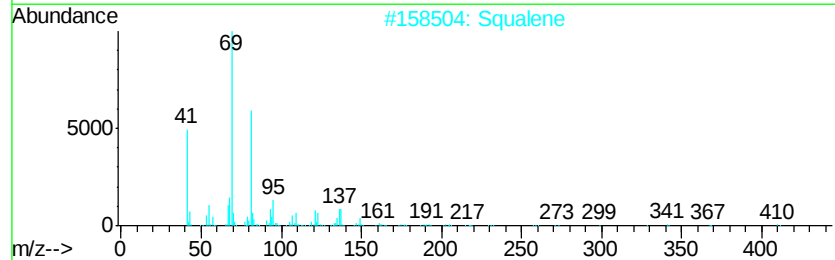
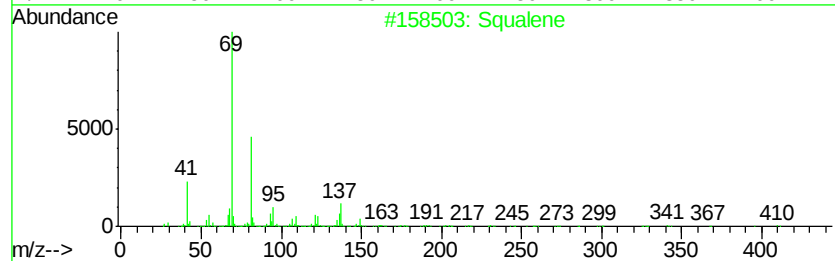
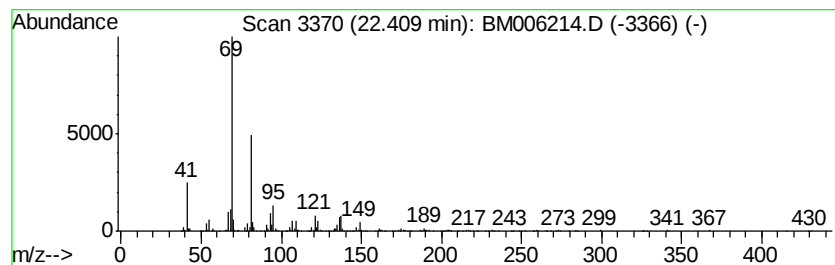
TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 3 Squalene Concentration Rank 3

| R.T.  | EstConc    | Area   | Relative to ISTD | R.T.  |
|-------|------------|--------|------------------|-------|
| 22.41 | 3.63 ng/ul | 836185 | Perylene-d12     | 23.46 |

| Hit# | of | Tentative ID                        | MW  | MolForm | CAS#        | Qual |
|------|----|-------------------------------------|-----|---------|-------------|------|
| 1    | 5  | Squalene                            | 410 | C30H50  | 007683-64-9 | 91   |
| 2    |    | Squalene                            | 410 | C30H50  | 007683-64-9 | 91   |
| 3    |    | 2,6,10,14,18,22-Tetracosahexaene... | 410 | C30H50  | 000111-02-4 | 91   |
| 4    |    | 2,6,10,14,18,22-Tetracosahexaene... | 410 | C30H50  | 000111-02-4 | 90   |
| 5    |    | 4,9,13,17-Tetramethyl-4,8,12,16-... | 316 | C22H36O | 056882-09-8 | 83   |



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| TIC Top Hit name     | RT    | EstConc | Units | Response | --Internal Standard-- |       |         |      |
|----------------------|-------|---------|-------|----------|-----------------------|-------|---------|------|
|                      |       |         |       |          | #                     | RT    | Resp    | Conc |
| 3-Penten-2-one, 4... | 4.20  | 11.2    | ng/ul | 1137350  | 1                     | 7.65  | 2034380 | 20.0 |
| 2-Pentanone, 4-hy... | 4.79  | 12.9    | ng/ul | 1313720  | 1                     | 7.65  | 2034380 | 20.0 |
| Squalene             | 22.41 | 3.6     | ng/ul | 836185   | 6                     | 23.46 | 4603110 | 20.0 |