

Data Path : Z:\HPCHEM1\BNA\_M\DATA\BM111116\  
 Data File : BM007839.D  
 Acq On : 11 Nov 2016 23:06  
 Operator : UM/SJ  
 Sample : H5610-09  
 Misc :  
 ALS Vial : 25 Sample Multiplier: 1

Instrument :  
 BNA\_M  
 ClientSampleId :  
 BD4M1

## 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-BM102016.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         | 2.634       | 5             | 8           | 24           | rVB4     | 56858          | 131610        | 3.17%           | 0.293%        |
| 2         | 2.881       | 46            | 50          | 56           | rVB      | 43485          | 50027         | 1.20%           | 0.111%        |
| 3         | 3.281       | 114           | 118         | 127          | rVB      | 37415          | 51341         | 1.23%           | 0.114%        |
| 4         | 6.916       | 729           | 736         | 751          | rBV2     | 548690         | 1056069       | 25.40%          | 2.348%        |
| 5         | 7.075       | 755           | 763         | 777          | rBV      | 448598         | 741967        | 17.84%          | 1.650%        |
| 6         | 7.275       | 790           | 797         | 807          | rBV      | 594509         | 988893        | 23.78%          | 2.199%        |
| 7         | 7.739       | 866           | 876         | 884          | rBV      | 685425         | 1161418       | 27.93%          | 2.583%        |
| 8         | 8.445       | 989           | 996         | 1012         | rBV      | 624973         | 1098993       | 26.43%          | 2.444%        |
| 9         | 8.892       | 1065          | 1072        | 1085         | rBV      | 543143         | 956877        | 23.01%          | 2.128%        |
| 10        | 9.610       | 1187          | 1194        | 1205         | rBV      | 437493         | 767680        | 18.46%          | 1.707%        |
| 11        | 10.145      | 1278          | 1285        | 1305         | rBV      | 611711         | 1189421       | 28.60%          | 2.645%        |
| 12        | 10.516      | 1339          | 1348        | 1355         | rBV      | 918979         | 1534331       | 36.90%          | 3.412%        |
| 13        | 10.663      | 1366          | 1373        | 1397         | rBV      | 397436         | 843043        | 20.27%          | 1.875%        |
| 14        | 13.263      | 1810          | 1815        | 1820         | rBV2     | 46818          | 74739         | 1.80%           | 0.166%        |
| 15        | 13.786      | 1898          | 1904        | 1908         | rBV      | 1247309        | 1807136       | 43.46%          | 4.019%        |
| 16        | 13.833      | 1908          | 1912        | 1925         | rVB      | 1287136        | 1800064       | 43.29%          | 4.003%        |
| 17        | 14.063      | 1942          | 1951        | 1965         | rBV      | 1367547        | 2085488       | 50.15%          | 4.638%        |
| 18        | 14.374      | 1995          | 2004        | 2011         | rBV      | 1299629        | 1957570       | 47.08%          | 4.353%        |
| 19        | 14.598      | 2035          | 2042        | 2062         | rBV      | 305339         | 741628        | 17.84%          | 1.649%        |
| 20        | 15.168      | 2133          | 2139        | 2143         | rBV      | 39885          | 56112         | 1.35%           | 0.125%        |
| 21        | 15.221      | 2143          | 2148        | 2155         | rVB2     | 46582          | 66874         | 1.61%           | 0.149%        |
| 22        | 15.368      | 2166          | 2173        | 2180         | rBV      | 1805516        | 2689135       | 64.67%          | 5.980%        |
| 23        | 15.504      | 2191          | 2196        | 2210         | rBV      | 368716         | 622438        | 14.97%          | 1.384%        |
| 24        | 15.615      | 2210          | 2215        | 2220         | rVB6     | 27827          | 57069         | 1.37%           | 0.127%        |
| 25        | 16.080      | 2289          | 2294        | 2297         | rBV      | 64201          | 93065         | 2.24%           | 0.207%        |
| 26        | 16.874      | 2420          | 2429        | 2432         | rBV2     | 67053          | 91729         | 2.21%           | 0.204%        |
| 27        | 16.927      | 2432          | 2438        | 2447         | rVB8     | 21089          | 53037         | 1.28%           | 0.118%        |
| 28        | 17.121      | 2465          | 2471        | 2476         | rBV      | 1561868        | 2276433       | 54.74%          | 5.062%        |
| 29        | 17.162      | 2476          | 2478        | 2482         | rVV      | 113750         | 132858        | 3.20%           | 0.295%        |
| 30        | 17.221      | 2482          | 2488        | 2498         | rVB2     | 1895057        | 2932065       | 70.51%          | 6.520%        |
| 31        | 17.504      | 2526          | 2536        | 2550         | rBV5     | 91719          | 221664        | 5.33%           | 0.493%        |
| 32        | 17.609      | 2550          | 2554        | 2558         | rBV      | 71083          | 85684         | 2.06%           | 0.191%        |
| 33        | 17.886      | 2596          | 2601        | 2606         | rBV8     | 28649          | 51484         | 1.24%           | 0.114%        |
| 34        | 17.956      | 2608          | 2613        | 2617         | rBV5     | 23523          | 42175         | 1.01%           | 0.094%        |

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Min Area: 1 % of largest Peak  
Max Peaks: 100  
Peak Location: TOP

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Peak separation: 5

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Title : SVOA CALIBRATION

|    |        |      |      |      |      |         |         |         |        |
|----|--------|------|------|------|------|---------|---------|---------|--------|
| 35 | 18.009 | 2617 | 2622 | 2626 | rBV2 | 167654  | 237504  | 5.71%   | 0.528% |
| 36 | 18.045 | 2626 | 2628 | 2633 | rVB  | 36105   | 52910   | 1.27%   | 0.118% |
| 37 | 18.192 | 2648 | 2653 | 2657 | rBV5 | 55015   | 86420   | 2.08%   | 0.192% |
| 38 | 18.304 | 2668 | 2672 | 2678 | rBV2 | 92481   | 139476  | 3.35%   | 0.310% |
| 39 | 18.939 | 2774 | 2780 | 2790 | rVB5 | 58482   | 117046  | 2.81%   | 0.260% |
| 40 | 19.180 | 2812 | 2821 | 2828 | rBV  | 421979  | 669823  | 16.11%  | 1.490% |
| 41 | 19.292 | 2835 | 2840 | 2843 | rBV4 | 53567   | 81693   | 1.96%   | 0.182% |
| 42 | 19.515 | 2872 | 2878 | 2892 | rBV2 | 2614766 | 4158258 | 100.00% | 9.247% |
| 43 | 20.050 | 2966 | 2969 | 2973 | rVB2 | 71154   | 94978   | 2.28%   | 0.211% |
| 44 | 21.015 | 3130 | 3133 | 3141 | rVB6 | 158878  | 278964  | 6.71%   | 0.620% |
| 45 | 21.309 | 3176 | 3183 | 3187 | rBV  | 2355556 | 3433604 | 82.57%  | 7.635% |
| 46 | 21.345 | 3187 | 3189 | 3197 | rVB  | 211478  | 271217  | 6.52%   | 0.603% |
| 47 | 22.474 | 3377 | 3381 | 3387 | rVB  | 366505  | 457866  | 11.01%  | 1.018% |
| 48 | 23.415 | 3535 | 3541 | 3547 | rBV  | 2007279 | 3521431 | 84.69%  | 7.831% |
| 49 | 23.556 | 3559 | 3565 | 3573 | rBV  | 1497549 | 2858243 | 68.74%  | 6.356% |

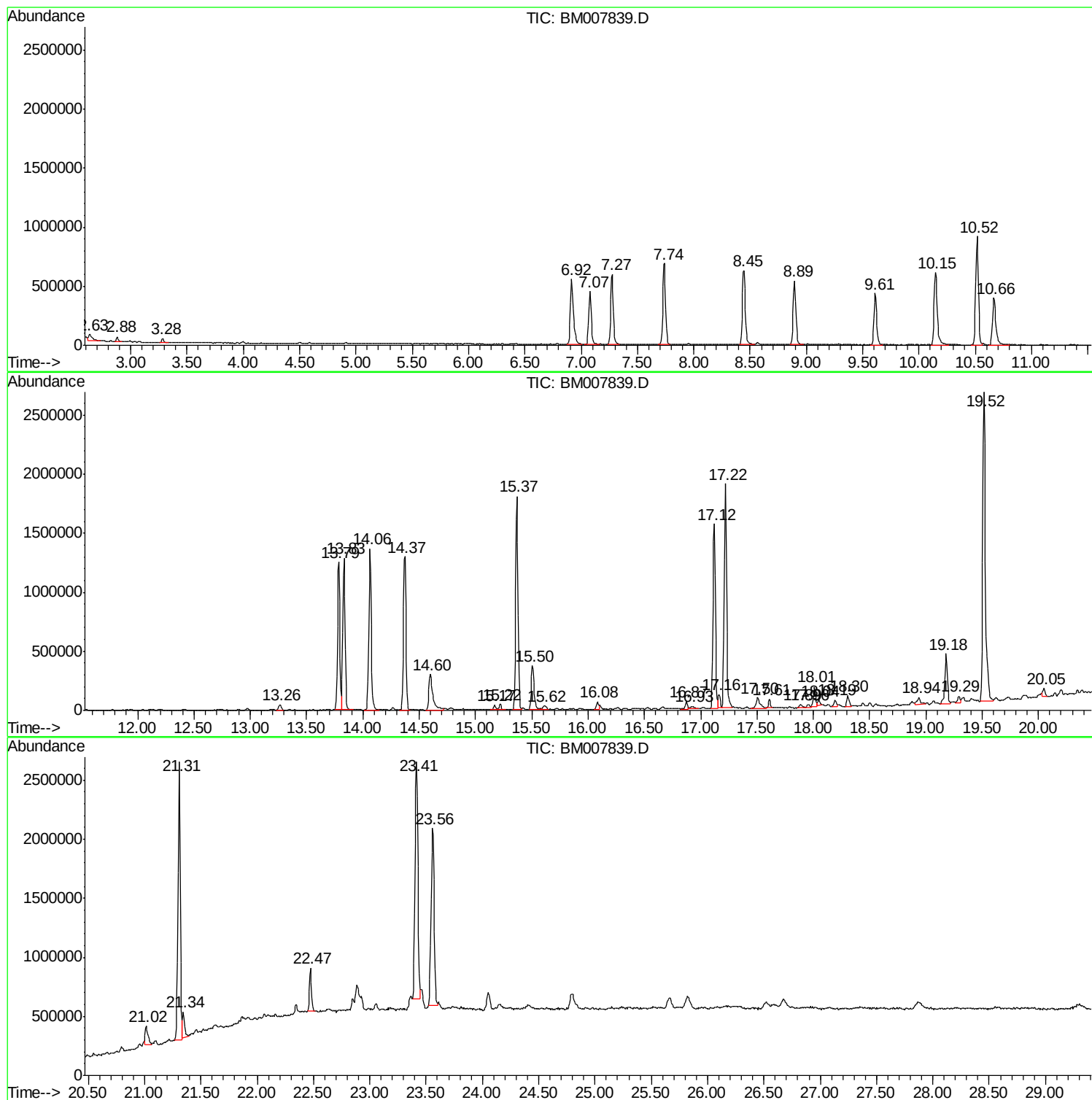
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Quant Method : Z:\HPCHEM1\BNA\_M\METHODS\SOM02.2-EPA-BM102016.M  
Quant Title : SVOA CALIBRATION

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



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Quant Title : SVOA CALIBRATION

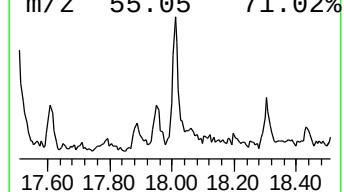
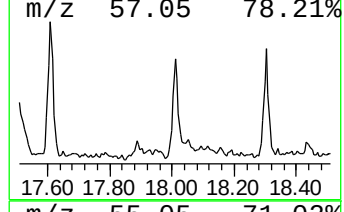
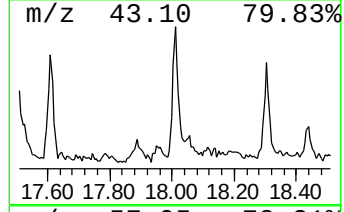
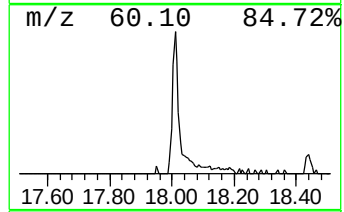
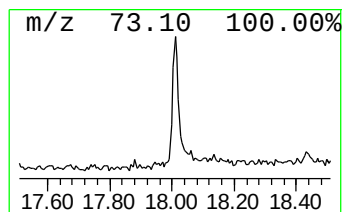
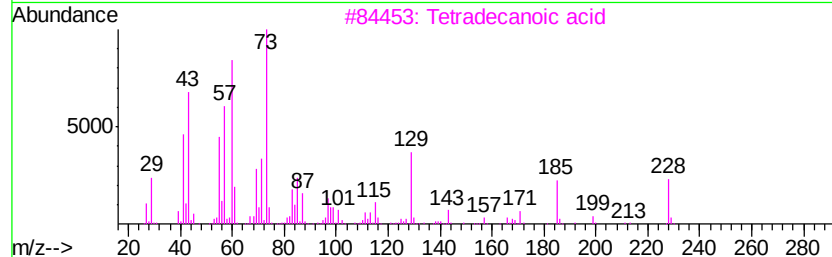
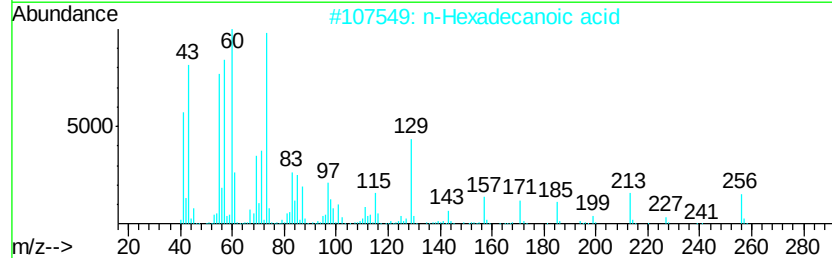
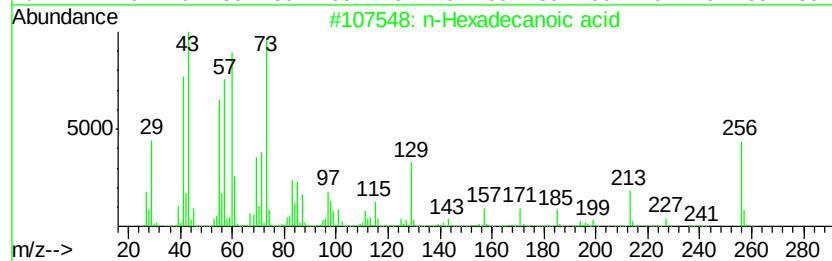
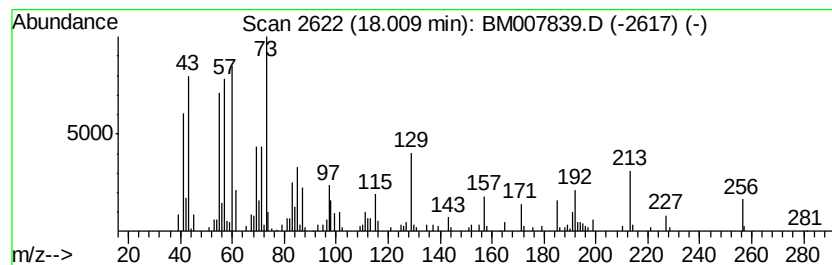
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 2 n-Hexadecanoic acid Concentration Rank 3

| R.T.  | EstConc    | Area   | Relative to ISTD | R.T.  |
|-------|------------|--------|------------------|-------|
| 18.01 | 2.09 ng/ul | 237504 | Phenanthrene-d10 | 17.12 |

| Hit# | of | Tentative ID        | MW  | MolForm  | CAS#        | Qual |
|------|----|---------------------|-----|----------|-------------|------|
| 1    | 5  | n-Hexadecanoic acid | 256 | C16H32O2 | 000057-10-3 | 98   |
| 2    |    | n-Hexadecanoic acid | 256 | C16H32O2 | 000057-10-3 | 98   |
| 3    |    | Tetradecanoic acid  | 228 | C14H28O2 | 000544-63-8 | 93   |
| 4    |    | Pentadecanoic acid  | 242 | C15H30O2 | 001002-84-2 | 87   |
| 5    |    | Pentadecanoic acid  | 242 | C15H30O2 | 001002-84-2 | 81   |



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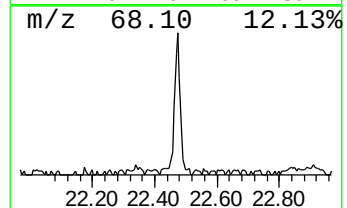
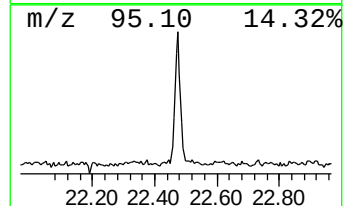
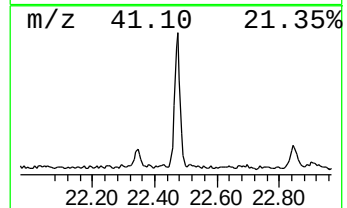
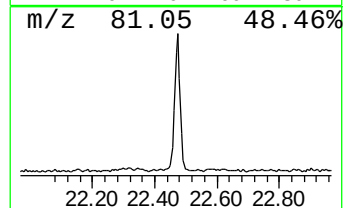
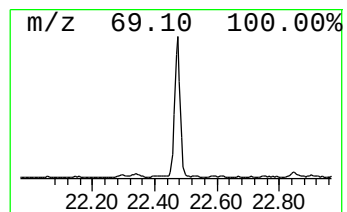
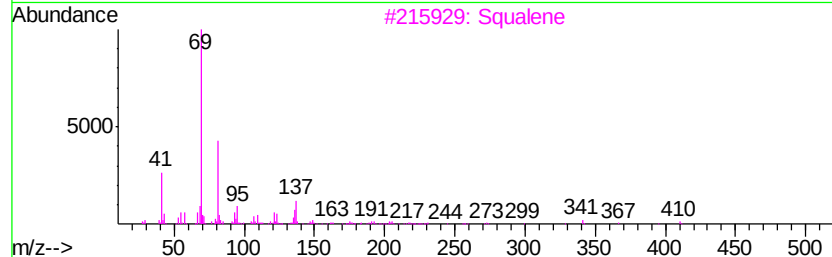
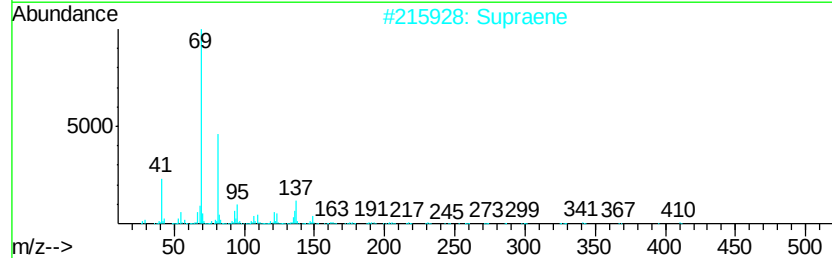
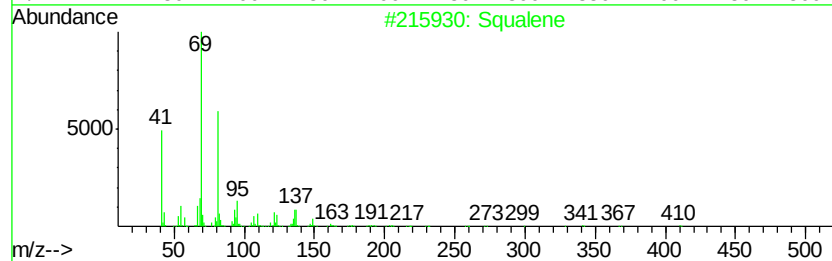
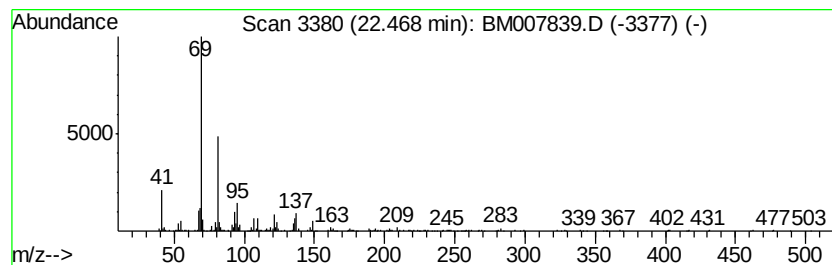
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Quant Method : Z:\HPCHEM1\BNA\_M\METHODS\SOM02.2-EPA-BM102016.M  
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TIC Integration Parameters: LSCINT.P

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Peak Number 3 Squalene Concentration Rank 1

| R.T.    | EstConc                             | Area         | Relative to ISTD | R.T.      |
|---------|-------------------------------------|--------------|------------------|-----------|
| 22.47   | 3.20 ng/ul                          | 457866       | Perylene-d12     | 23.56     |
| Hit# of | 5                                   | Tentative ID | MW MolForm       | CAS# Qual |
| 1       | Squalene                            | 410 C30H50   | 000111-02-4      | 87        |
| 2       | Supraene                            | 410 C30H50   | 007683-64-9      | 87        |
| 3       | Squalene                            | 410 C30H50   | 000111-02-4      | 83        |
| 4       | 4,8,12-Tetradecatrienal, 5,9,13-... | 248 C17H28O  | 066408-55-7      | 72        |
| 5       | 7,11-Dimethyldodeca-2,6,10-trien... | 208 C14H24O  | 125529-10-4      | 64        |



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| TIC Top Hit name    | RT    | EstConc | Units | Response | --Internal Standard-- |       |         |      |
|---------------------|-------|---------|-------|----------|-----------------------|-------|---------|------|
|                     |       |         |       |          | #                     | RT    | Resp    | Conc |
| n-Hexadecanoic acid | 18.01 | 2.1     | ng/ul | 237504   | 4                     | 17.12 | 2276430 | 20.0 |
| Squalene            | 22.47 | 3.2     | ng/ul | 457866   | 6                     | 23.56 | 2858240 | 20.0 |