

Data Path : Z:\HPCHEM1\BNA M\DATA\BM062216\  
 Data File : BM005929.D  
 Acq On : 23 Jun 2016 14:20  
 Operator : UM/SJ  
 Sample : H3612-03  
 Misc :  
 ALS Vial : 26 Sample Multiplier: 1

Instrument :  
 BNA\_M  
 ClientSampleId :  
 D9Z20

## 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-BM062216.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         | 6.363       | 636           | 642         | 649          | rVB      | 43234          | 71162         | 2.31%           | 0.225%        |
| 2         | 6.828       | 714           | 721         | 732          | rBV      | 449028         | 780659        | 25.38%          | 2.473%        |
| 3         | 7.004       | 745           | 751         | 763          | rBV      | 344657         | 569507        | 18.52%          | 1.804%        |
| 4         | 7.198       | 771           | 784         | 797          | rVB      | 447592         | 798663        | 25.97%          | 2.530%        |
| 5         | 7.663       | 853           | 863         | 871          | rBV      | 490887         | 815546        | 26.52%          | 2.584%        |
| 6         | 7.887       | 895           | 901         | 908          | rBV6     | 27558          | 53628         | 1.74%           | 0.170%        |
| 7         | 8.363       | 973           | 982         | 997          | rBV      | 539942         | 917138        | 29.82%          | 2.905%        |
| 8         | 8.816       | 1051          | 1059        | 1072         | rBV      | 388598         | 689001        | 22.40%          | 2.183%        |
| 9         | 9.533       | 1174          | 1181        | 1190         | rBV      | 292867         | 514583        | 16.73%          | 1.630%        |
| 10        | 10.063      | 1263          | 1271        | 1288         | rBV      | 510246         | 877200        | 28.52%          | 2.779%        |
| 11        | 10.445      | 1328          | 1336        | 1348         | rBV      | 618287         | 1085271       | 35.29%          | 3.438%        |
| 12        | 10.580      | 1352          | 1359        | 1370         | rBV      | 423150         | 777766        | 25.29%          | 2.464%        |
| 13        | 13.721      | 1887          | 1893        | 1898         | rBV      | 752533         | 1120976       | 36.45%          | 3.551%        |
| 14        | 13.769      | 1898          | 1901        | 1910         | rVB      | 250790         | 376327        | 12.24%          | 1.192%        |
| 15        | 13.998      | 1931          | 1940        | 1948         | rBV      | 898112         | 1392900       | 45.29%          | 4.413%        |
| 16        | 14.310      | 1982          | 1993        | 2001         | rBV2     | 803140         | 1284474       | 41.77%          | 4.069%        |
| 17        | 14.421      | 2007          | 2012        | 2017         | rVB2     | 44304          | 58065         | 1.89%           | 0.184%        |
| 18        | 14.504      | 2020          | 2026        | 2034         | rBV      | 281977         | 455659        | 14.82%          | 1.444%        |
| 19        | 14.568      | 2034          | 2037        | 2045         | rVB4     | 20940          | 37501         | 1.22%           | 0.119%        |
| 20        | 15.180      | 2137          | 2141        | 2145         | rBV2     | 22511          | 32049         | 1.04%           | 0.102%        |
| 21        | 15.304      | 2156          | 2162        | 2170         | rBV      | 1178803        | 1736507       | 56.47%          | 5.501%        |
| 22        | 15.421      | 2176          | 2182        | 2191         | rBV      | 243073         | 367805        | 11.96%          | 1.165%        |
| 23        | 16.039      | 2283          | 2287        | 2291         | rBV2     | 24488          | 40435         | 1.31%           | 0.128%        |
| 24        | 16.833      | 2418          | 2422        | 2427         | rBV3     | 21989          | 36014         | 1.17%           | 0.114%        |
| 25        | 17.057      | 2454          | 2460        | 2469         | rBV      | 1015421        | 1419687       | 46.16%          | 4.497%        |
| 26        | 17.157      | 2470          | 2477        | 2485         | rBV      | 1199015        | 1784908       | 58.04%          | 5.654%        |
| 27        | 17.962      | 2607          | 2614        | 2623         | rBV2     | 61854          | 104082        | 3.38%           | 0.330%        |
| 28        | 18.533      | 2706          | 2711        | 2718         | rBV3     | 34659          | 52319         | 1.70%           | 0.166%        |
| 29        | 19.250      | 2829          | 2833        | 2837         | rBV7     | 22791          | 33300         | 1.08%           | 0.105%        |
| 30        | 19.456      | 2862          | 2868        | 2874         | rBV      | 1507717        | 2152424       | 69.99%          | 6.819%        |
| 31        | 20.974      | 3123          | 3126        | 3133         | rVB4     | 72378          | 93482         | 3.04%           | 0.296%        |
| 32        | 21.180      | 3157          | 3161        | 3167         | rBV      | 78225          | 108317        | 3.52%           | 0.343%        |
| 33        | 21.250      | 3168          | 3173        | 3180         | rVV      | 1489402        | 1854033       | 60.29%          | 5.873%        |
| 34        | 21.856      | 3272          | 3276        | 3278         | rBV3     | 104121         | 164792        | 5.36%           | 0.522%        |

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Misc :  
ALS Vial : 26 Sample Multiplier: 1

Instrument :  
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ClientSampleId :  
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Sampling : 1  
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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-BM062216.M  
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|    |        |      |      |      |      |         |         |         |        |
|----|--------|------|------|------|------|---------|---------|---------|--------|
| 35 | 22.015 | 3299 | 3303 | 3307 | rBV  | 170518  | 232139  | 7.55%   | 0.735% |
| 36 | 22.815 | 3433 | 3439 | 3453 | rVB  | 1966089 | 3075360 | 100.00% | 9.743% |
| 37 | 23.327 | 3519 | 3526 | 3532 | rBV2 | 1214208 | 2318317 | 75.38%  | 7.344% |
| 38 | 23.468 | 3543 | 3550 | 3559 | rVB  | 966298  | 1847443 | 60.07%  | 5.853% |
| 39 | 24.015 | 3637 | 3643 | 3649 | rBV  | 401598  | 773640  | 25.16%  | 2.451% |
| 40 | 26.479 | 4057 | 4062 | 4075 | rVB8 | 217660  | 663183  | 21.56%  | 2.101% |

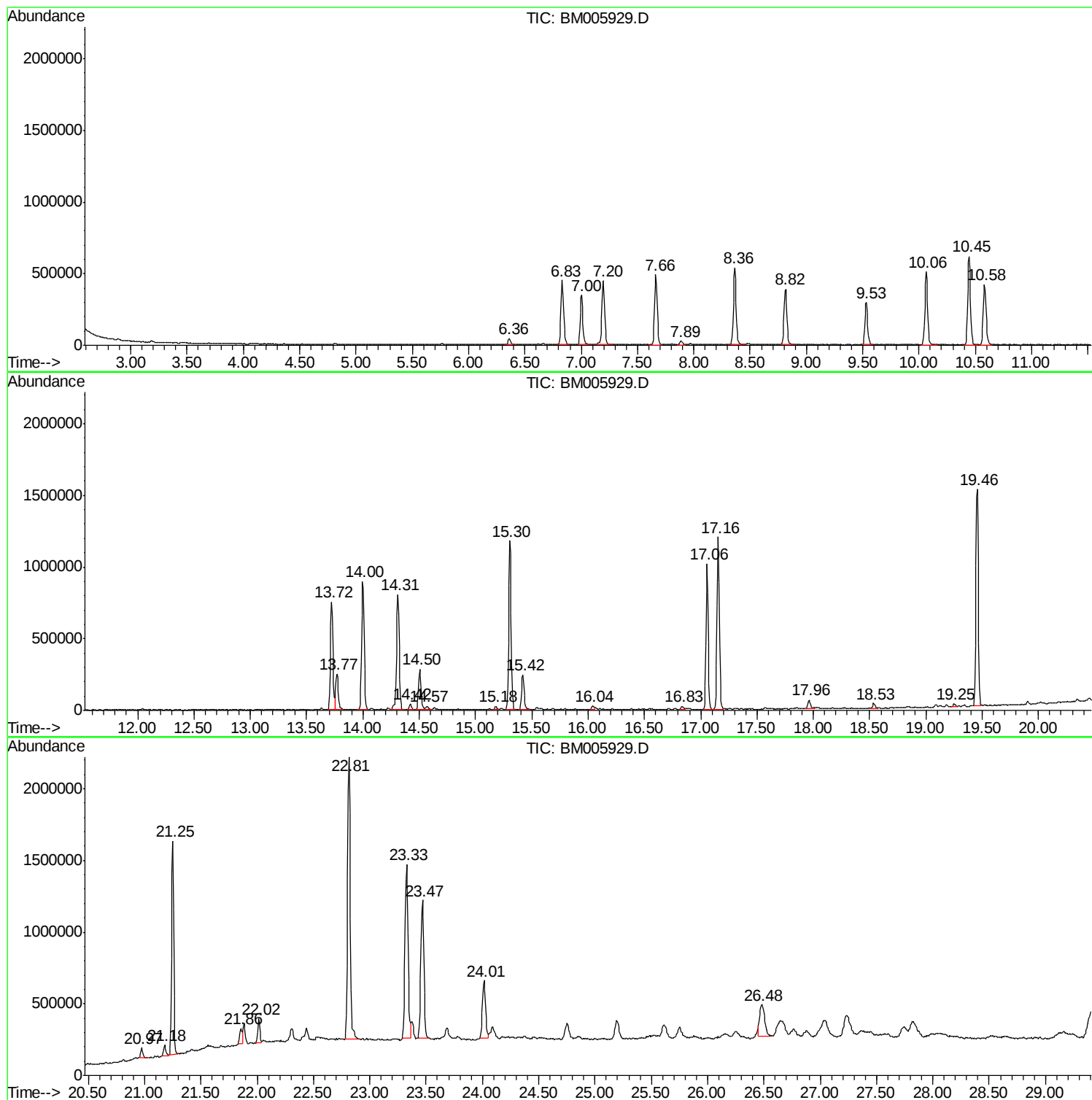
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Quant Method : Z:\HPCHEM1\BNA M\METHODS\SOM02.2-EPA-BM062216.M  
Quant Title : SVOA CALIBRATION

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



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Quant Title : SVOA CALIBRATION

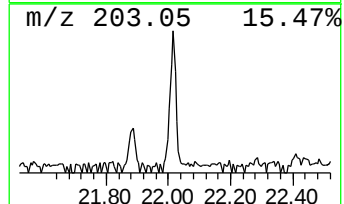
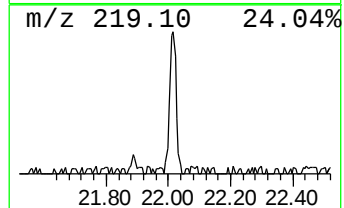
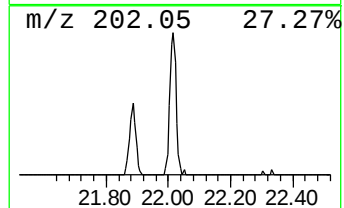
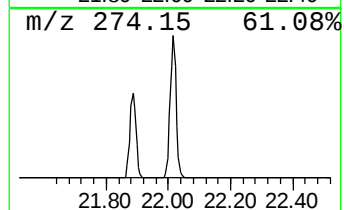
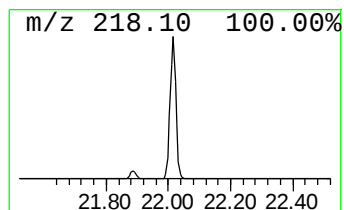
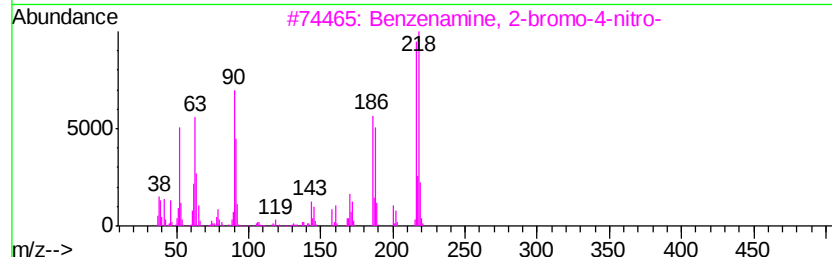
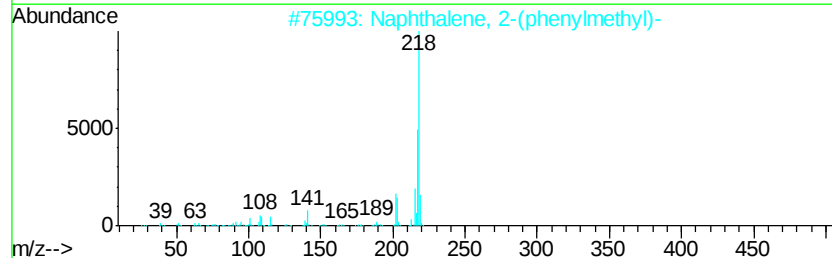
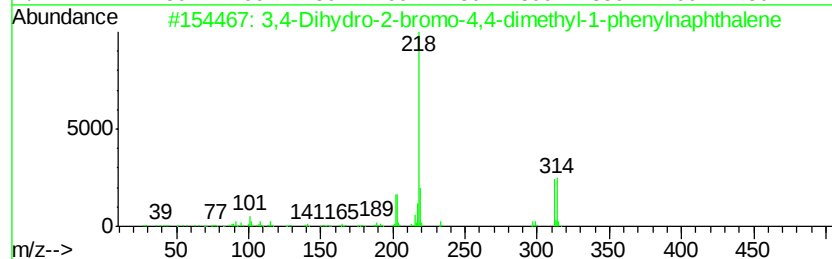
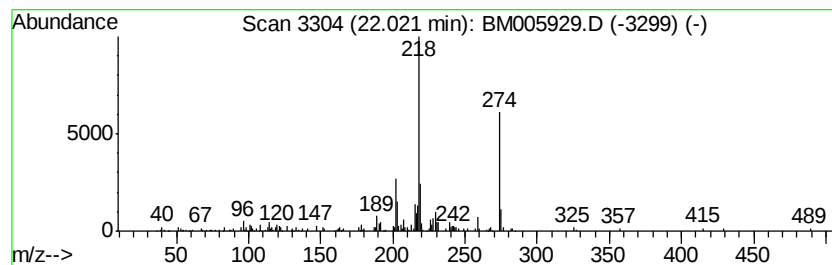
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 1 unknown-01 Concentration Rank 4

| R.T.  | EstConc    | Area   | Relative to ISTD | R.T.  |
|-------|------------|--------|------------------|-------|
| 22.02 | 2.50 ng/ul | 232139 | Chrysene-d12     | 21.25 |

| Hit# | of | Tentative ID                        | MW  | MolForm    | CAS#         | Qual |
|------|----|-------------------------------------|-----|------------|--------------|------|
| 1    | 5  | 3,4-Dihydro-2-bromo-4,4-dimethyl... | 312 | C18H17Br   | 071161-44-9  | 47   |
| 2    |    | Naphthalene, 2-(phenylmethyl)-      | 218 | C17H14     | 000613-59-2  | 47   |
| 3    |    | Benzenamine, 2-bromo-4-nitro-       | 216 | C6H5BrN2O2 | 013296-94-1  | 46   |
| 4    |    | 2,4-Diethoxyquinazoline             | 218 | C12H14N2O2 | 000611-65-4  | 43   |
| 5    |    | 8-Amino-6,7-dimethoxy-4-methylqu... | 218 | C12H14N2O2 | 1000213-07-2 | 43   |



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Quant Method : Z:\HPCHEM1\BNA M\METHODS\SOM02.2-EPA-BM062216.M  
Quant Title : SVOA CALIBRATION

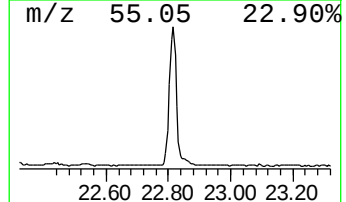
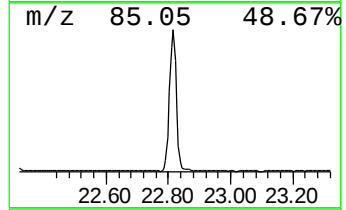
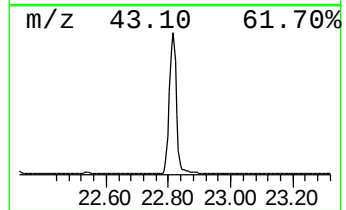
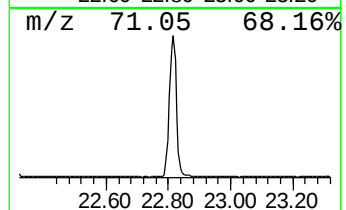
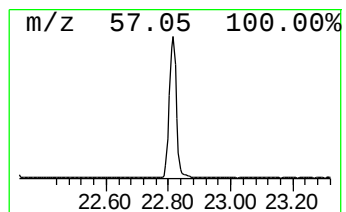
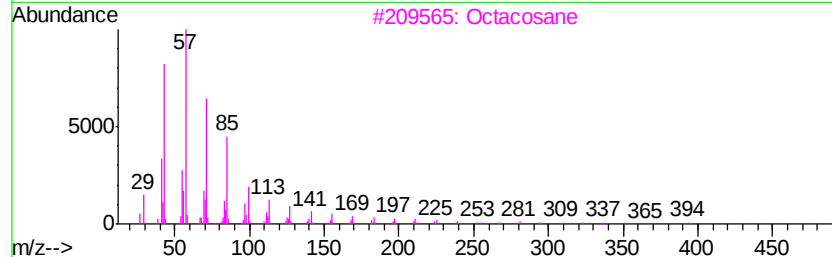
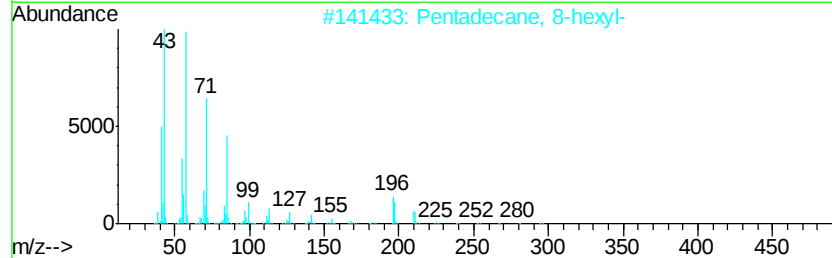
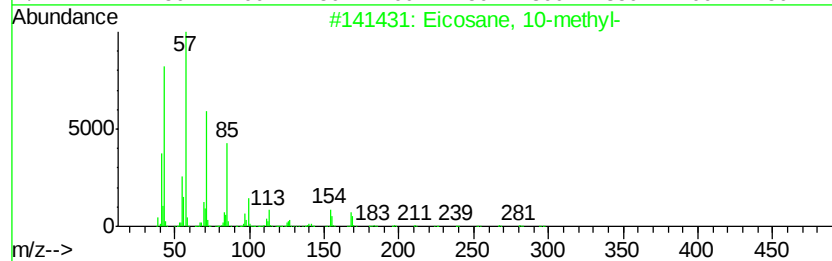
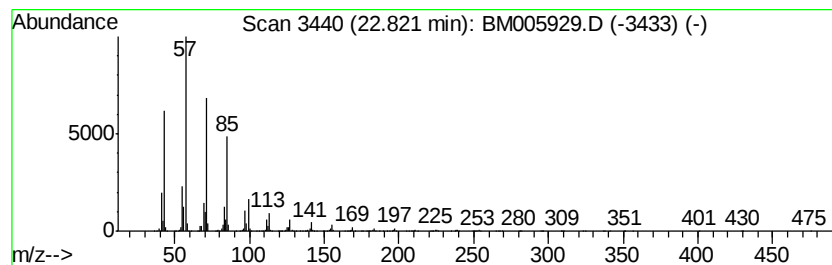
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 2 (DEL) Alkane: Straight-Chai... Concentration Rank 1

| R.T.  | EstConc     | Area    | Relative to ISTD | R.T.  |
|-------|-------------|---------|------------------|-------|
| 22.82 | 33.29 ng/ul | 3075360 | Perylene-d12     | 23.47 |

| Hit# | of | Tentative ID          | MW  | MolForm | CAS#        | Qual |
|------|----|-----------------------|-----|---------|-------------|------|
| 1    | 5  | Eicosane, 10-methyl-  | 296 | C21H44  | 054833-23-7 | 94   |
| 2    |    | Pentadecane, 8-hexyl- | 296 | C21H44  | 013475-75-7 | 93   |
| 3    |    | Octacosane            | 394 | C28H58  | 000630-02-4 | 91   |
| 4    |    | Heneicosane           | 296 | C21H44  | 000629-94-7 | 91   |
| 5    |    | Eicosane, 7-hexyl-    | 366 | C26H54  | 055333-99-8 | 91   |



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Quant Method : Z:\HPCHEM1\BNA M\METHODS\SOM02.2-EPA-BM062216.M  
Quant Title : SVOA CALIBRATION

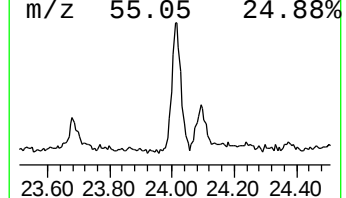
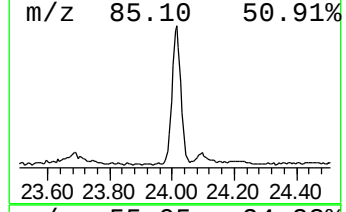
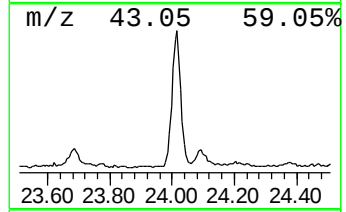
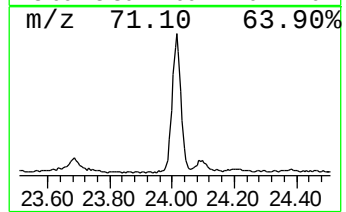
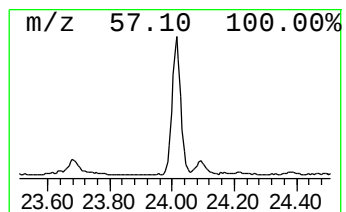
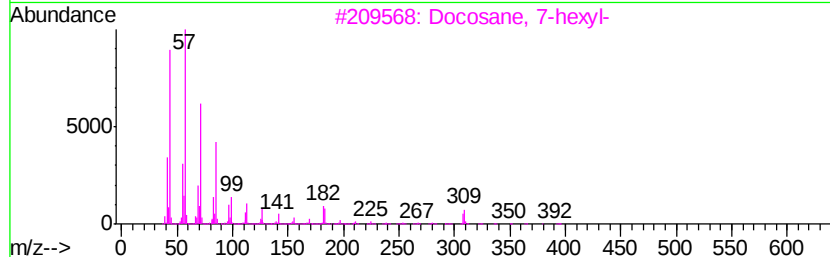
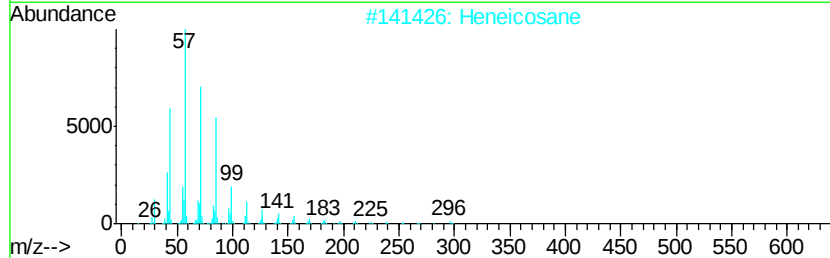
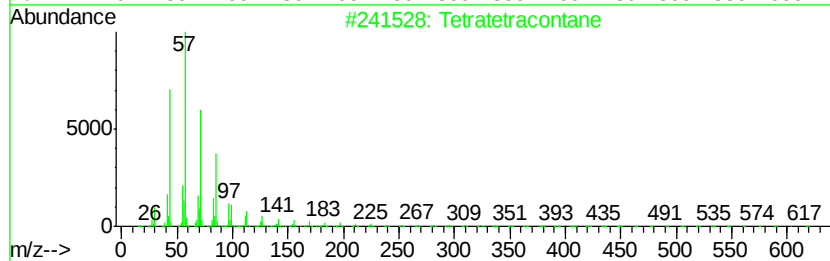
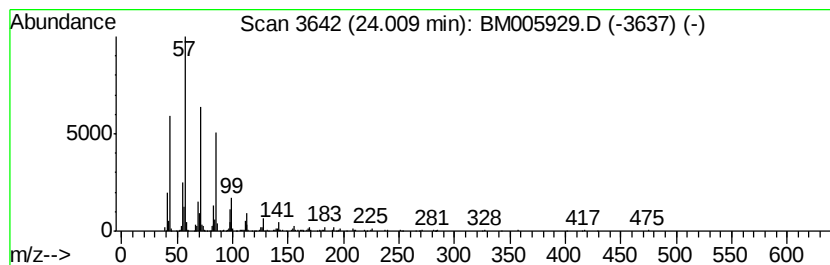
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 3 (DEL) Alkane: Straight-Chai... Concentration Rank 2

| R.T.  | EstConc    | Area   | Relative to ISTD | R.T.  |
|-------|------------|--------|------------------|-------|
| 24.01 | 8.38 ng/ul | 773640 | Perylene-d12     | 23.47 |

| Hit# | of | Tentative ID       | MW  | MolForm | CAS#        | Qual |
|------|----|--------------------|-----|---------|-------------|------|
| 1    | 5  | Tetratetracontane  | 619 | C44H90  | 007098-22-8 | 91   |
| 2    |    | Heneicosane        | 296 | C21H44  | 000629-94-7 | 91   |
| 3    |    | Docosane, 7-hexyl- | 394 | C28H58  | 055373-86-9 | 91   |
| 4    |    | Hexacosane         | 366 | C26H54  | 000630-01-3 | 91   |
| 5    |    | Heptacosane        | 380 | C27H56  | 000593-49-7 | 90   |



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Quant Method : Z:\HPCHEM1\BNA M\METHODS\SOM02.2-EPA-BM062216.M  
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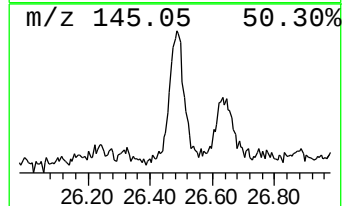
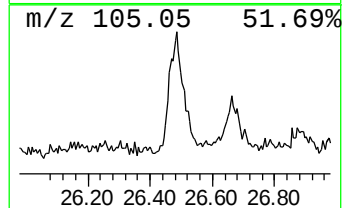
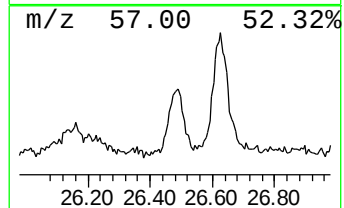
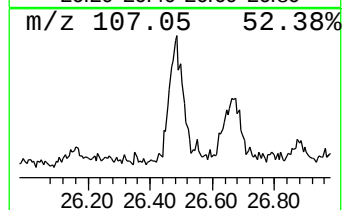
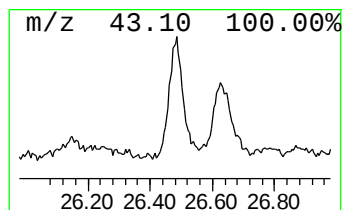
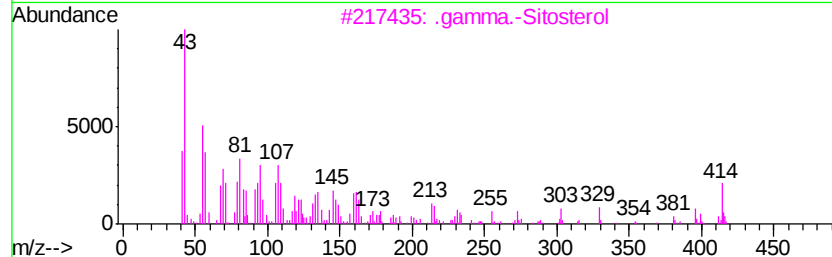
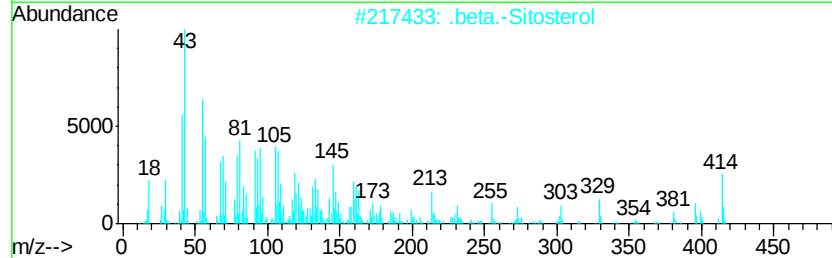
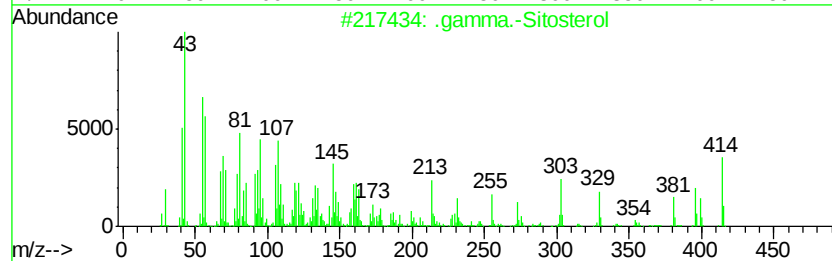
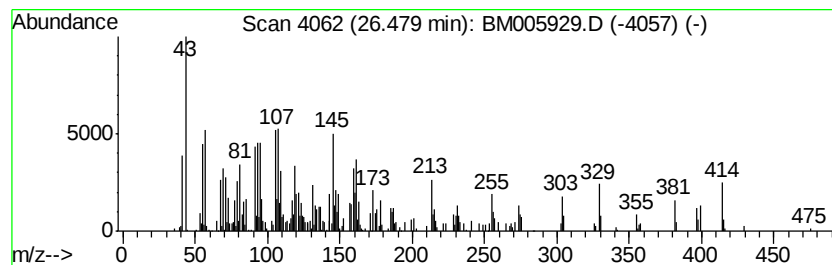
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\*\*\*\*\*  
Peak Number 4 .gamma.-Sitosterol Concentration Rank 3

| R.T.  | EstConc    | Area   | Relative to ISTD | R.T.  |
|-------|------------|--------|------------------|-------|
| 26.48 | 7.18 ng/ul | 663183 | Perylene-d12     | 23.47 |

| Hit# | of | Tentative ID                        | MW  | MolForm | CAS#        | Qual |
|------|----|-------------------------------------|-----|---------|-------------|------|
| 1    | 5  | .gamma.-Sitosterol                  | 414 | C29H50O | 000083-47-6 | 95   |
| 2    |    | .beta.-Sitosterol                   | 414 | C29H50O | 000083-46-5 | 90   |
| 3    |    | .gamma.-Sitosterol                  | 414 | C29H50O | 000083-47-6 | 86   |
| 4    |    | .beta.-Sitosterol                   | 414 | C29H50O | 000083-46-5 | 81   |
| 5    |    | Cholest-5-ene, 3-ethoxy-, (3.bet... | 414 | C29H50O | 000986-19-6 | 40   |



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Quant Title : SVOA CALIBRATION

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

| TIC Top Hit name     | RT    | EstConc | Units | Response | --Internal Standard-- |       |         |      |
|----------------------|-------|---------|-------|----------|-----------------------|-------|---------|------|
|                      |       |         |       |          | #                     | RT    | Resp    | Conc |
| unknown-01           | 22.02 | 2.5     | ng/ul | 232139   | 5                     | 21.25 | 1854030 | 20.0 |
| (DEL) Alkane: Str... | 22.82 | 33.3    | ng/ul | 3075360  | 6                     | 23.47 | 1847440 | 20.0 |
| (DEL) Alkane: Str... | 24.01 | 8.4     | ng/ul | 773640   | 6                     | 23.47 | 1847440 | 20.0 |
| .gamma.-Sitosterol   | 26.48 | 7.2     | ng/ul | 663183   | 6                     | 23.47 | 1847440 | 20.0 |