

Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF050517\  
 Data File : BF094950.D  
 Acq On : 6 May 2017 9:08  
 Operator : SJ/MA  
 Sample : PB98737BL  
 Misc :  
 ALS Vial : 30 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 PB98737BL

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

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

Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF050217.M  
 Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

Signal : TIC

| peak<br># | R.T.<br>min | first<br>scan | max<br>scan | last<br>scan | PK<br>TY | peak<br>height | corr.<br>area | corr.<br>% max. | % of<br>total |
|-----------|-------------|---------------|-------------|--------------|----------|----------------|---------------|-----------------|---------------|
| 1         | 5.048       | 525           | 529         | 548          | rBV      | 266711         | 539300        | 18.41%          | 2.375%        |
| 2         | 5.678       | 631           | 636         | 662          | rBV      | 1577149        | 2376584       | 81.11%          | 10.466%       |
| 3         | 7.266       | 901           | 906         | 921          | rBV      | 1637256        | 2286907       | 78.05%          | 10.071%       |
| 4         | 7.383       | 921           | 926         | 938          | rVB      | 1915072        | 2598404       | 88.69%          | 11.443%       |
| 5         | 7.725       | 980           | 984         | 998          | rBV      | 468416         | 532355        | 18.17%          | 2.344%        |
| 6         | 7.960       | 1019          | 1024        | 1037         | rBV      | 1748460        | 2069846       | 70.65%          | 9.115%        |
| 7         | 8.619       | 1131          | 1136        | 1164         | rBV      | 1022688        | 1467201       | 50.08%          | 6.461%        |
| 8         | 9.742       | 1322          | 1327        | 1342         | rBV      | 499439         | 710350        | 24.24%          | 3.128%        |
| 9         | 11.513      | 1623          | 1628        | 1650         | rBV      | 2185488        | 2929898       | 100.00%         | 12.902%       |
| 10        | 12.571      | 1803          | 1808        | 1827         | rBV2     | 544987         | 836837        | 28.56%          | 3.685%        |
| 11        | 13.865      | 2023          | 2028        | 2056         | rBV      | 1024331        | 1645362       | 56.16%          | 7.246%        |
| 12        | 14.971      | 2212          | 2216        | 2232         | rBV2     | 456416         | 760501        | 25.96%          | 3.349%        |
| 13        | 17.300      | 2606          | 2612        | 2624         | rBV      | 2074883        | 2583313       | 88.17%          | 11.376%       |
| 14        | 18.642      | 2835          | 2840        | 2851         | rBV      | 466612         | 623971        | 21.30%          | 2.748%        |
| 15        | 20.306      | 3119          | 3123        | 3135         | rBV      | 310765         | 479940        | 16.38%          | 2.114%        |
| 16        | 20.400      | 3135          | 3139        | 3145         | rVB      | 39777          | 48884         | 1.67%           | 0.215%        |
| 17        | 20.777      | 3199          | 3203        | 3207         | rBV      | 43193          | 56679         | 1.93%           | 0.250%        |
| 18        | 21.200      | 3270          | 3275        | 3282         | rVB2     | 38960          | 68926         | 2.35%           | 0.304%        |
| 19        | 21.694      | 3353          | 3359        | 3365         | rBV3     | 25389          | 49519         | 1.69%           | 0.218%        |
| 20        | 22.271      | 3451          | 3457        | 3464         | rBV4     | 19189          | 43284         | 1.48%           | 0.191%        |

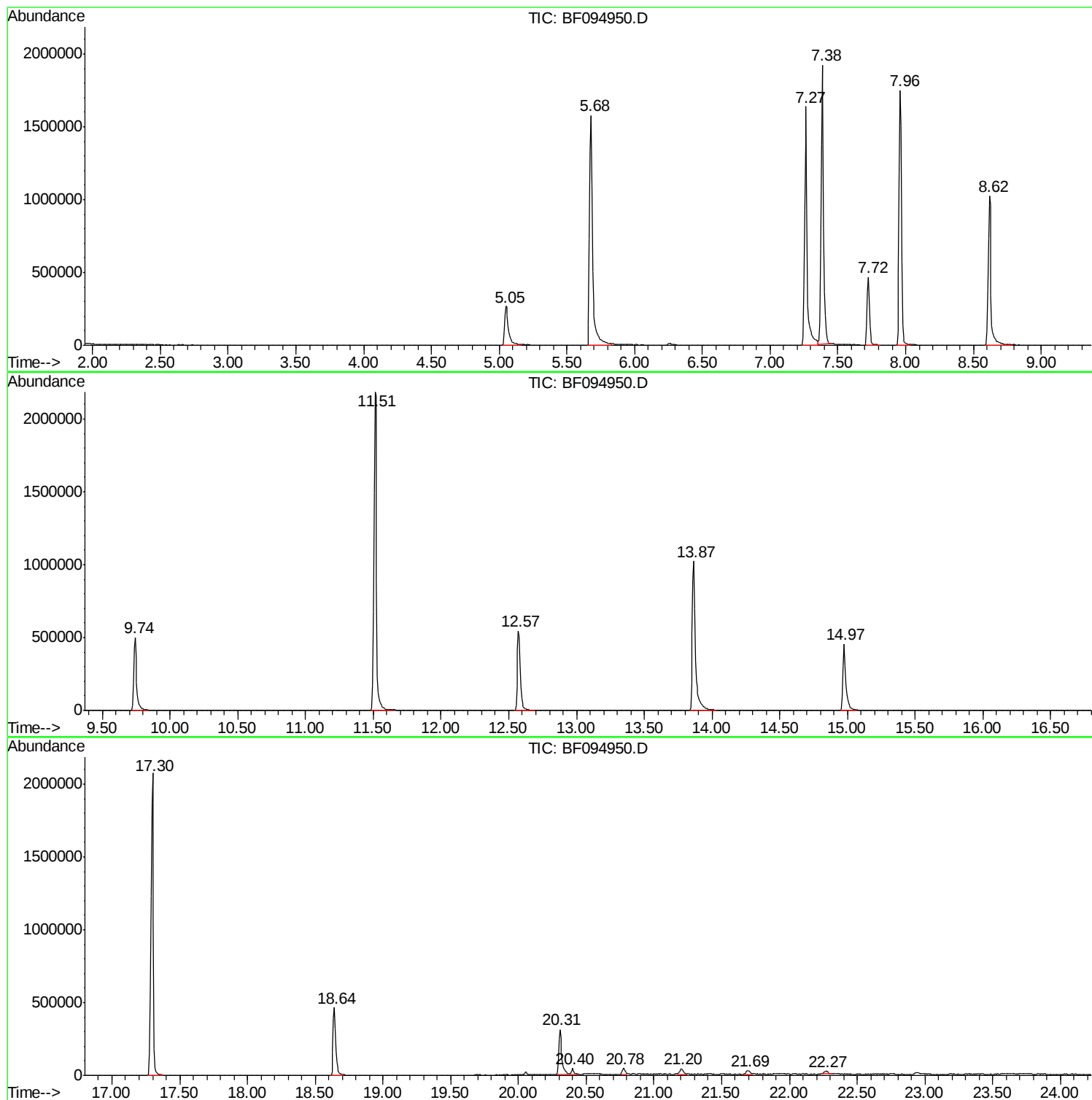
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Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF050517\  
Data File : BF094950.D  
Acq On : 6 May 2017 9:08  
Operator : SJ/MA  
Sample : PB98737BL  
Misc :  
ALS Vial : 30 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
PB98737BL

Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF050217.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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



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Data File : BF094950.D  
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Misc :  
ALS Vial : 30 Sample Multiplier: 1

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ClientSampleId :  
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Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF050217.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

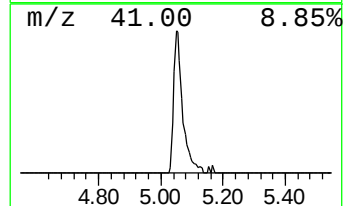
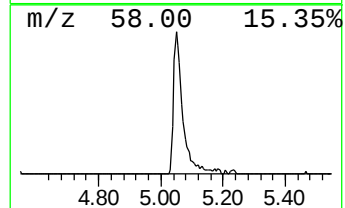
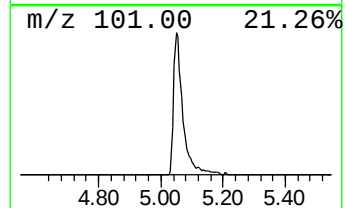
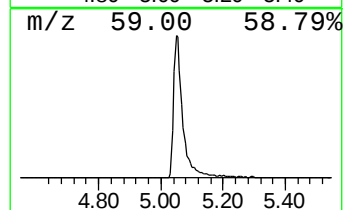
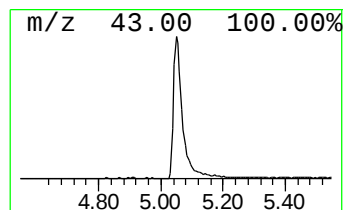
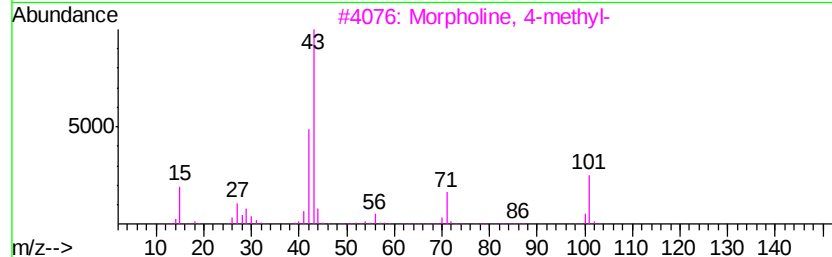
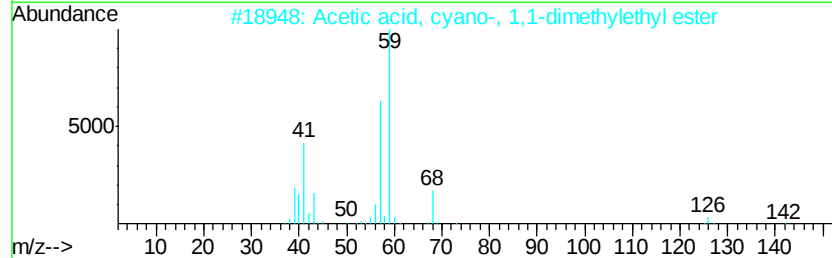
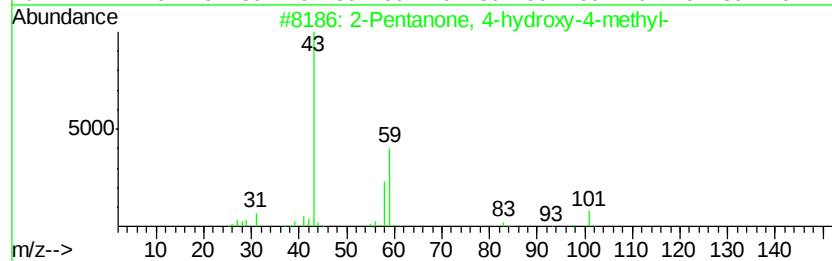
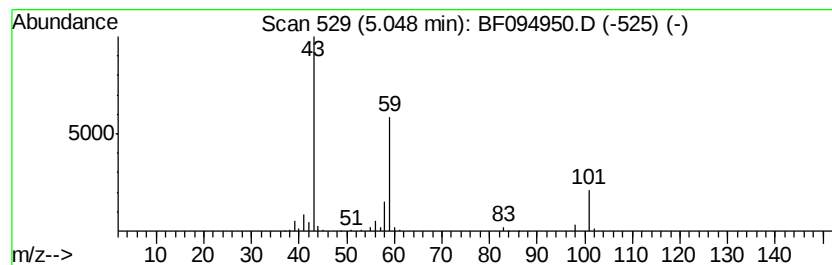
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 1 2-Pentanone, 4-hydroxy-4-me... Concentration Rank 3

| R.T. | EstConc  | Area   | Relative to ISTD       | R.T. |
|------|----------|--------|------------------------|------|
| 5.05 | 20.26 ng | 539300 | 1,4-Dichlorobenzene-d4 | 7.72 |

| Hit# | of | Tentative ID                        | MW  | MolForm  | CAS#        | Qual |
|------|----|-------------------------------------|-----|----------|-------------|------|
| 1    | 5  | 2-Pentanone, 4-hydroxy-4-methyl-    | 116 | C6H12O2  | 000123-42-2 | 56   |
| 2    |    | Acetic acid, cyano-, 1,1-dimethy... | 141 | C7H11NO2 | 001116-98-9 | 23   |
| 3    |    | Morpholine, 4-methyl-               | 101 | C5H11NO  | 000109-02-4 | 9    |
| 4    |    | 2,3-Butanedione, monooxime          | 101 | C4H7NO2  | 000057-71-6 | 9    |
| 5    |    | (+)-4-Amino-4,5-dihydro-2(3H)-f...  | 101 | C4H7NO2  | 016504-58-8 | 9    |



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Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF050217.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

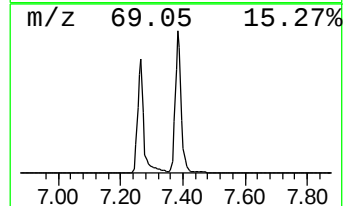
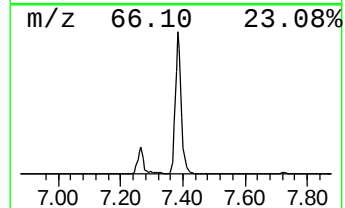
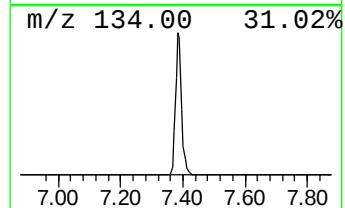
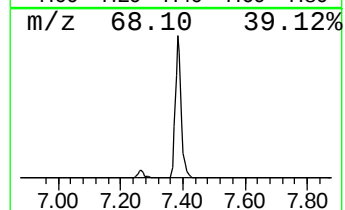
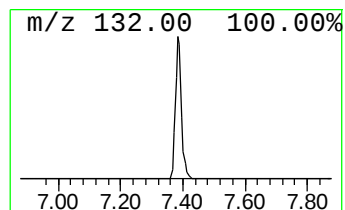
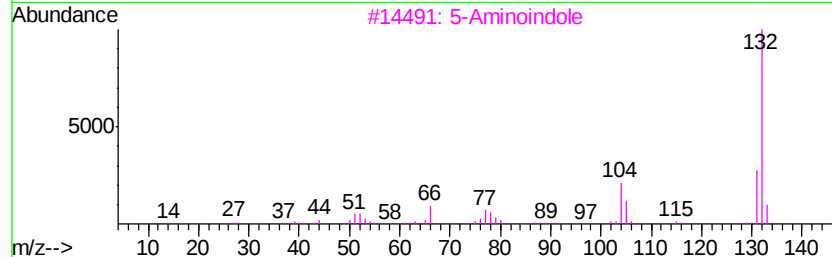
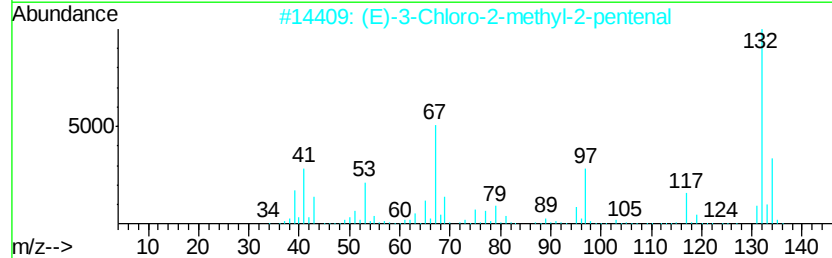
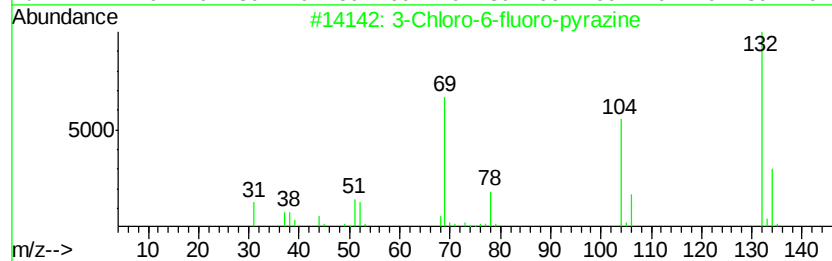
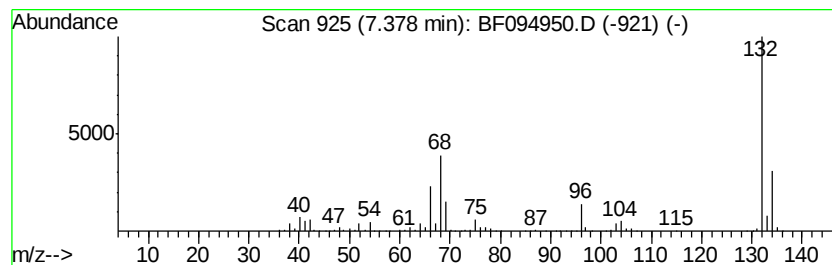
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 2 unknown7.38 Concentration Rank 1

| R.T. | EstConc  | Area    | Relative to ISTD       | R.T. |
|------|----------|---------|------------------------|------|
| 7.38 | 97.62 ng | 2598400 | 1,4-Dichlorobenzene-d4 | 7.72 |

| Hit# | of | Tentative ID                     | MW  | MolForm   | CAS#         | Qual |
|------|----|----------------------------------|-----|-----------|--------------|------|
| 1    | 5  | 3-Chloro-6-fluoro-pyrazine       | 132 | C4H2ClFN2 | 1000146-10-7 | 27   |
| 2    |    | (E)-3-Chloro-2-methyl-2-pentenal | 132 | C6H9ClO   | 031357-76-3  | 17   |
| 3    |    | 5-Aminoindole                    | 132 | C8H8N2    | 005192-03-0  | 12   |
| 4    |    | 5-Fluoro-2-chloropyrimidine      | 132 | C4H2ClFN2 | 062802-42-0  | 9    |
| 5    |    | 1H-Benzimidazole, 2-methyl-      | 132 | C8H8N2    | 000615-15-6  | 9    |



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Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF050217.M  
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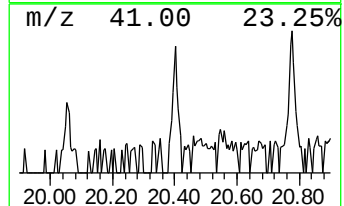
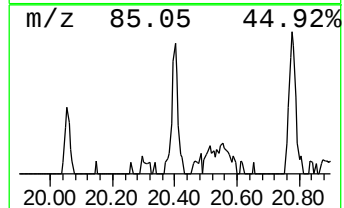
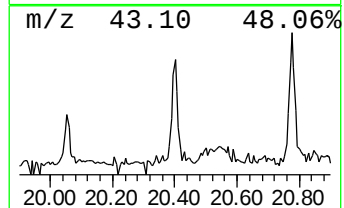
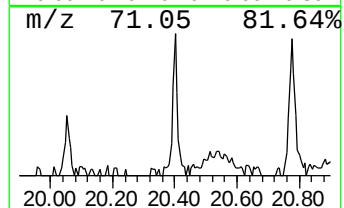
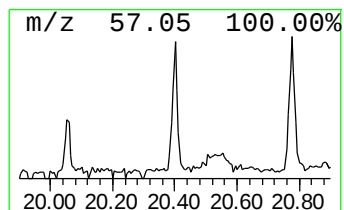
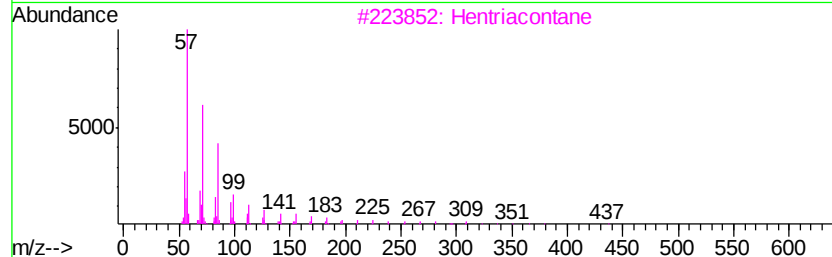
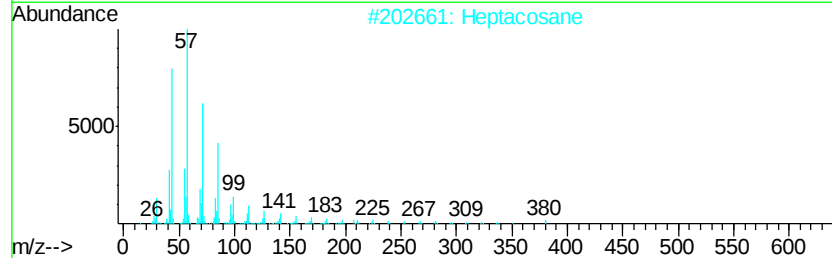
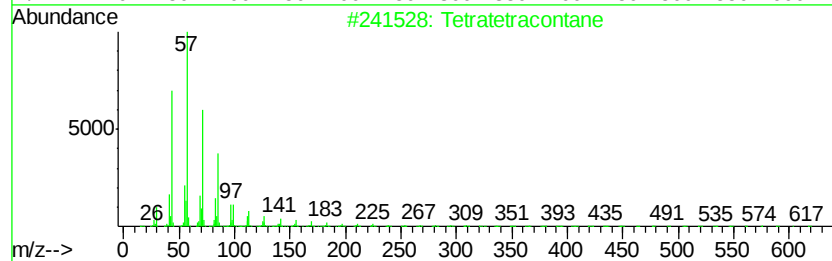
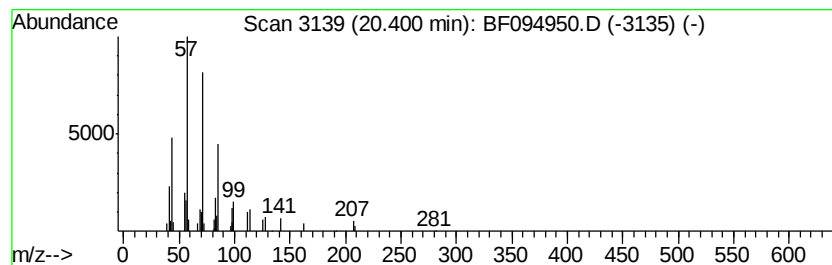
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 4 Tetratetracontane Concentration Rank 7

| R.T.  | EstConc | Area  | Relative to ISTD | R.T.  |
|-------|---------|-------|------------------|-------|
| 20.40 | 2.04 ng | 48884 | Perylene-d12     | 20.31 |

| Hit# of | 5 | Tentative ID      | MW  | MolForm | CAS#        | Qual |
|---------|---|-------------------|-----|---------|-------------|------|
| 1       |   | Tetratetracontane | 619 | C44H90  | 007098-22-8 | 87   |
| 2       |   | Heptacosane       | 380 | C27H56  | 000593-49-7 | 87   |
| 3       |   | Hentriacontane    | 437 | C31H64  | 000630-04-6 | 86   |
| 4       |   | Hexacosane        | 366 | C26H54  | 000630-01-3 | 86   |
| 5       |   | Hexatriacontane   | 507 | C36H74  | 000630-06-8 | 86   |



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Misc :  
ALS Vial : 30 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
PB98737BL

Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF050217.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

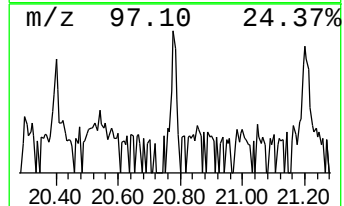
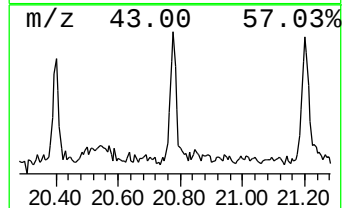
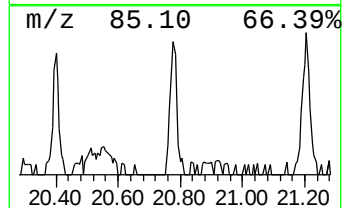
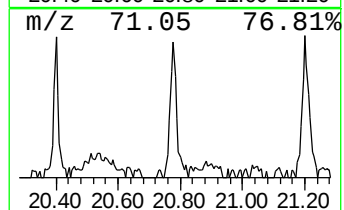
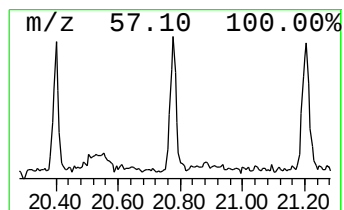
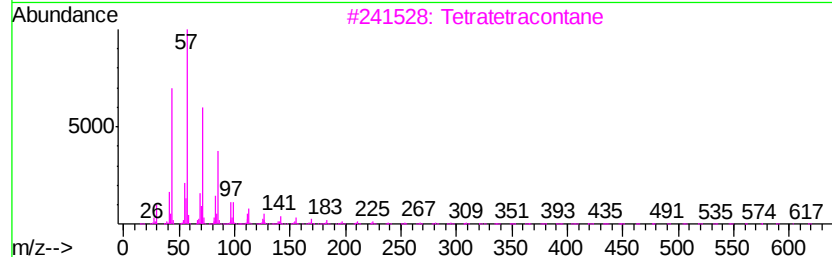
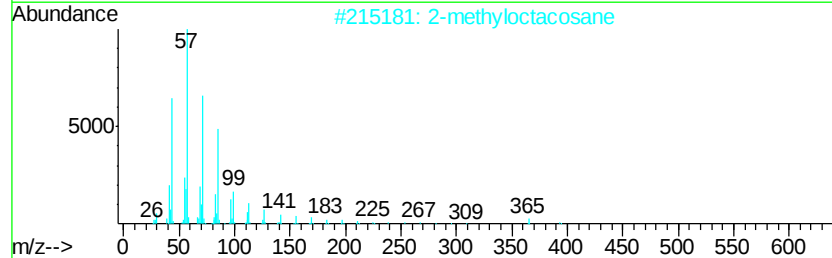
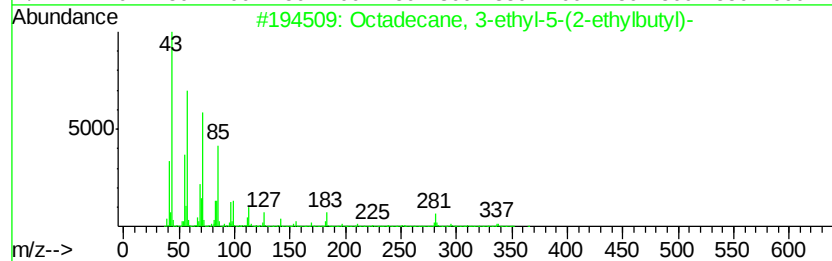
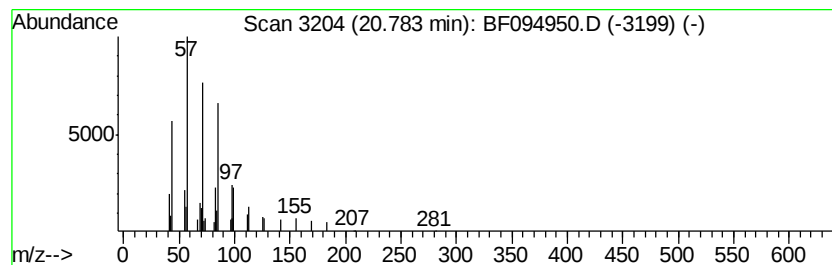
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 5 Octadecane, 3-ethyl-5-(2-ethyl-... Concentration Rank 5

| R.T.  | EstConc | Area  | Relative to ISTD | R.T.  |
|-------|---------|-------|------------------|-------|
| 20.78 | 2.36 ng | 56679 | Perylene-d12     | 20.31 |

| Hit# | of | Tentative ID                        | MW  | MolForm | CAS#         | Qual |
|------|----|-------------------------------------|-----|---------|--------------|------|
| 1    | 5  | Octadecane, 3-ethyl-5-(2-ethylbu... | 366 | C26H54  | 055282-12-7  | 90   |
| 2    |    | 2-methyloctacosane                  | 408 | C29H60  | 1000376-72-8 | 87   |
| 3    |    | Tetratetracontane                   | 619 | C44H90  | 007098-22-8  | 83   |
| 4    |    | Pentacosane                         | 352 | C25H52  | 000629-99-2  | 80   |
| 5    |    | Hexacosane                          | 366 | C26H54  | 000630-01-3  | 80   |



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Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF050217.M  
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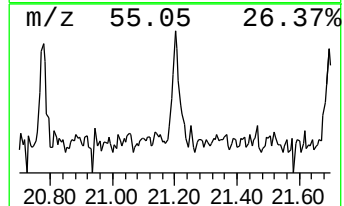
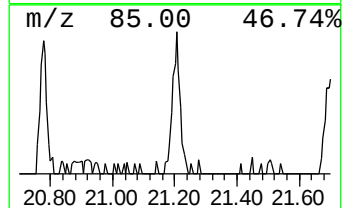
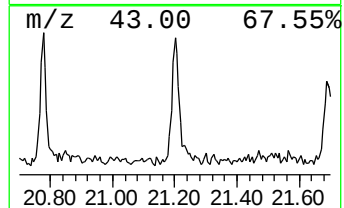
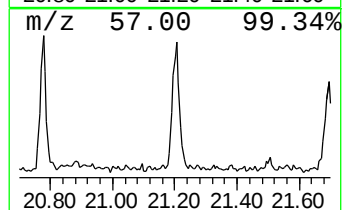
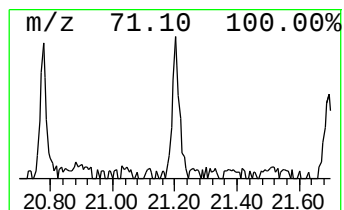
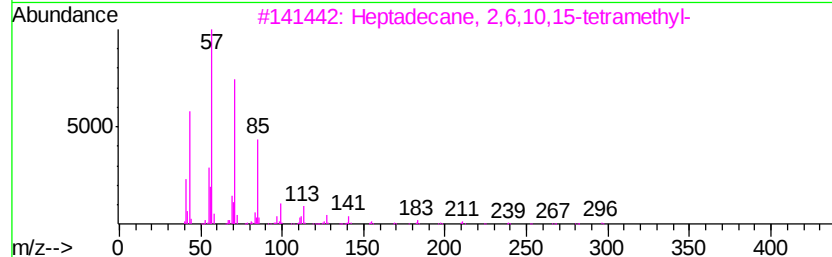
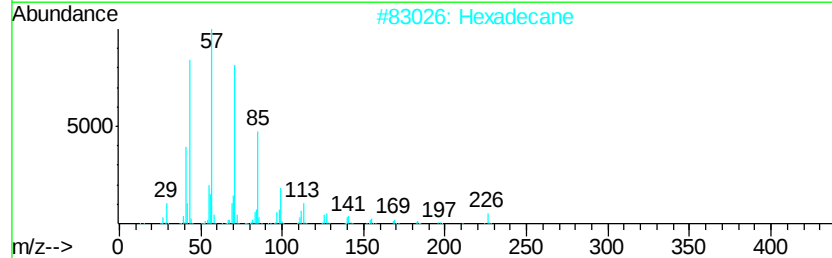
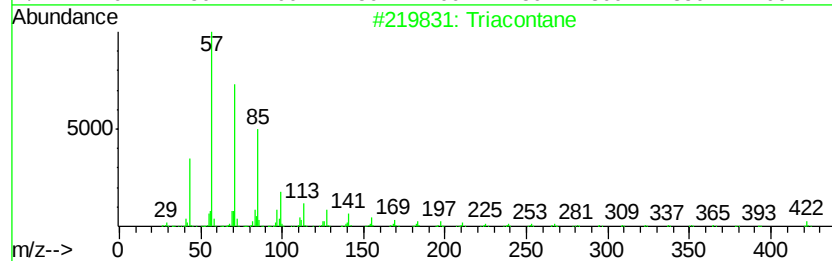
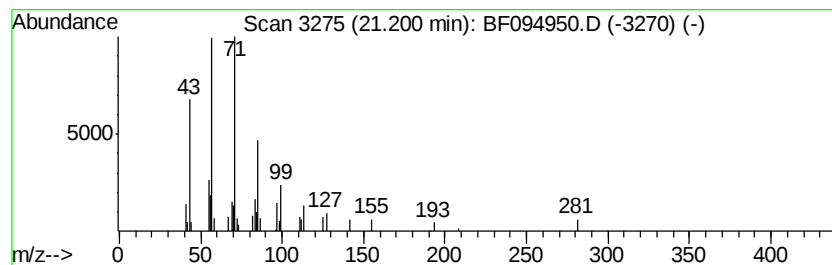
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 6 Triacontane Concentration Rank 4

| R.T.  | EstConc | Area  | Relative to ISTD | R.T.  |
|-------|---------|-------|------------------|-------|
| 21.20 | 2.87 ng | 68926 | Perylene-d12     | 20.31 |

| Hit# | of | 5 | Tentative ID                        | MW  | MolForm | CAS#        | Qual |
|------|----|---|-------------------------------------|-----|---------|-------------|------|
| 1    |    |   | Triacontane                         | 422 | C30H62  | 000638-68-6 | 90   |
| 2    |    |   | Hexadecane                          | 226 | C16H34  | 000544-76-3 | 86   |
| 3    |    |   | Heptadecane, 2,6,10,15-tetramethyl- | 296 | C21H44  | 054833-48-6 | 80   |
| 4    |    |   | Hexadecane, 2,6,10,14-tetramethyl-  | 282 | C20H42  | 000638-36-8 | 80   |
| 5    |    |   | Octacosane                          | 394 | C28H58  | 000630-02-4 | 72   |



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Instrument :  
BNA\_F  
ClientSampled :  
PB98737BL

Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF050217.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

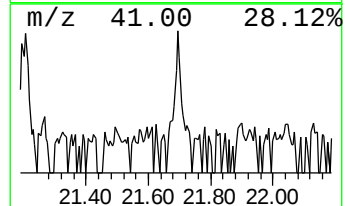
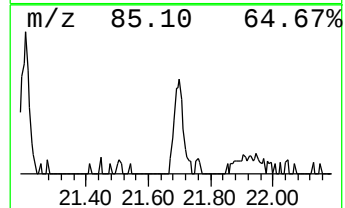
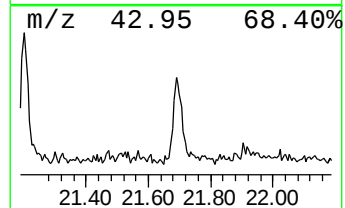
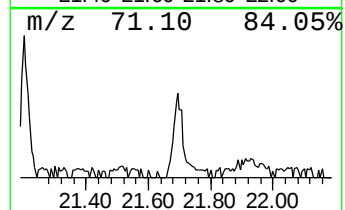
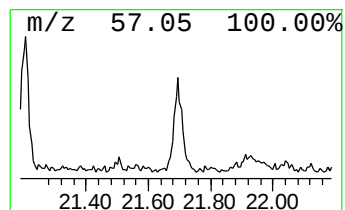
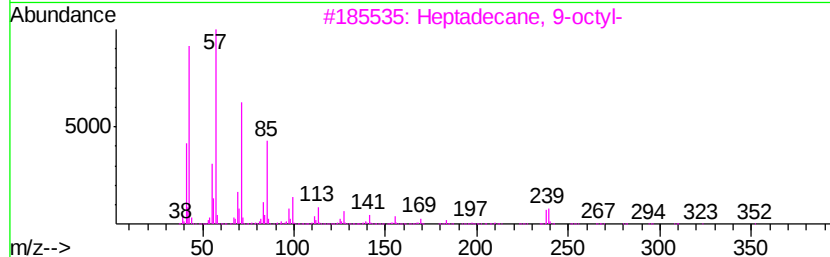
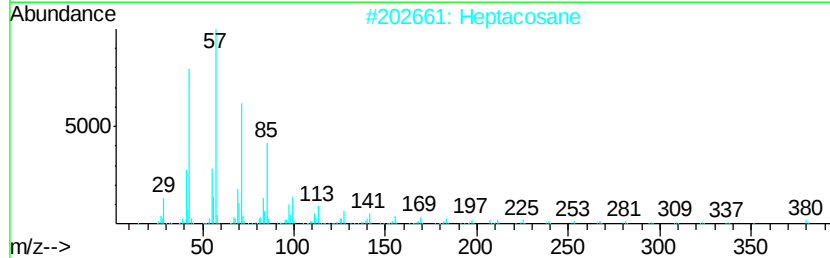
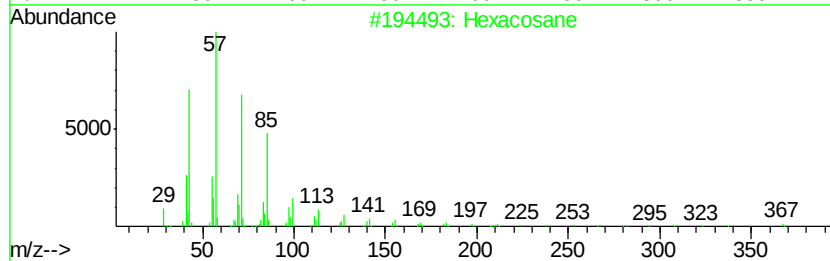
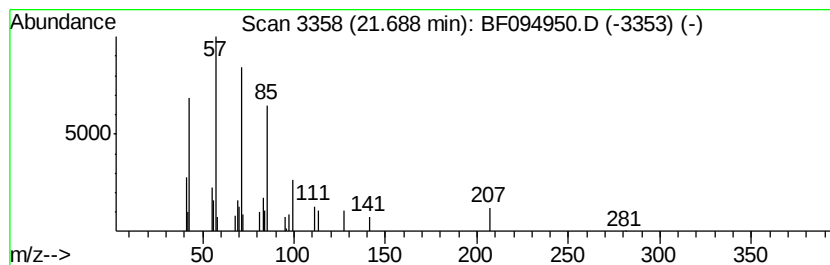
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 7 Hexacosane Concentration Rank 6

| R.T.  | EstConc | Area  | Relative to ISTD | R.T.  |
|-------|---------|-------|------------------|-------|
| 21.69 | 2.06 ng | 49519 | Perylene-d12     | 20.31 |

| Hit# of | 5                     | Tentative ID | MW  | MolForm | CAS#        | Qual |
|---------|-----------------------|--------------|-----|---------|-------------|------|
| 1       | Hexacosane            |              | 366 | C26H54  | 000630-01-3 | 91   |
| 2       | Heptacosane           |              | 380 | C27H56  | 000593-49-7 | 90   |
| 3       | Heptadecane, 9-octyl- |              | 352 | C25H52  | 007225-64-1 | 90   |
| 4       | Heneicosane           |              | 296 | C21H44  | 000629-94-7 | 90   |
| 5       | Pentacosane           |              | 352 | C25H52  | 000629-99-2 | 90   |



Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF050517\  
Data File : BF094950.D  
Acq On : 6 May 2017 9:08  
Operator : SJ/MA  
Sample : PB98737BL  
Misc :  
ALS Vial : 30 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
PB98737BL

Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF050217.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

| TIC Top Hit name     | RT    | EstConc | Units | Response | --Internal Standard-- |       |        |      |
|----------------------|-------|---------|-------|----------|-----------------------|-------|--------|------|
|                      |       |         |       |          | #                     | RT    | Resp   | Conc |
| 2-Pentanone, 4-hy... | 5.05  | 20.3    | ng    | 539300   | 1                     | 7.72  | 532355 | 20.0 |
| unknown7.38          | 7.38  | 97.6    | ng    | 2598400  | 1                     | 7.72  | 532355 | 20.0 |
| Tetratetracontane    | 20.40 | 2.0     | ng    | 48884    | 6                     | 20.31 | 479940 | 20.0 |
| Octadecane, 3-eth... | 20.78 | 2.4     | ng    | 56679    | 6                     | 20.31 | 479940 | 20.0 |
| Triacontane          | 21.20 | 2.9     | ng    | 68926    | 6                     | 20.31 | 479940 | 20.0 |
| Hexacosane           | 21.69 | 2.1     | ng    | 49519    | 6                     | 20.31 | 479940 | 20.0 |