

Data Path : Z:\HPCHEM1\BNA F\DATA\BF060916\  
 Data File : BF087847.D  
 Acq On : 9 Jun 2016 12:41  
 Operator : UM/SJ  
 Sample : H3477-02  
 Misc :  
 ALS Vial : 4 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 1300-02-NW-06072016

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-BF060716.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         | 1.667       | 3             | 7           | 10           | rVB      | 3738236        | 5881264       | 100.00%         | 17.262%       |
| 2         | 1.747       | 13            | 14          | 24           | rVV      | 373898         | 596342        | 10.14%          | 1.750%        |
| 3         | 1.873       | 24            | 25          | 40           | rVB      | 1406972        | 2651872       | 45.09%          | 7.783%        |
| 4         | 2.067       | 40            | 42          | 59           | rVB      | 76360          | 203570        | 3.46%           | 0.597%        |
| 5         | 4.330       | 237           | 240         | 245          | rVB      | 72754          | 95903         | 1.63%           | 0.281%        |
| 6         | 4.993       | 296           | 298         | 305          | rBV      | 173319         | 261125        | 4.44%           | 0.766%        |
| 7         | 5.416       | 332           | 335         | 337          | rBV      | 2218658        | 2334033       | 39.69%          | 6.850%        |
| 8         | 6.456       | 423           | 426         | 428          | rBV      | 2249877        | 2504049       | 42.58%          | 7.349%        |
| 9         | 6.582       | 434           | 437         | 440          | rBV      | 1947168        | 2520186       | 42.85%          | 7.397%        |
| 10        | 6.822       | 455           | 458         | 460          | rBV      | 737080         | 720879        | 12.26%          | 2.116%        |
| 11        | 6.970       | 469           | 471         | 474          | rVB      | 1439549        | 2010689       | 34.19%          | 5.901%        |
| 12        | 7.382       | 504           | 507         | 510          | rBV      | 1448203        | 1482802       | 25.21%          | 4.352%        |
| 13        | 8.102       | 568           | 570         | 573          | rBV      | 1119005        | 972916        | 16.54%          | 2.856%        |
| 14        | 9.176       | 662           | 664         | 667          | rVB      | 2563286        | 2632210       | 44.76%          | 7.726%        |
| 15        | 9.576       | 696           | 699         | 701          | rBV      | 221137         | 303438        | 5.16%           | 0.891%        |
| 16        | 9.851       | 721           | 723         | 726          | rVB      | 1331920        | 1130590       | 19.22%          | 3.318%        |
| 17        | 10.285      | 759           | 761         | 763          | rVB      | 78432          | 78871         | 1.34%           | 0.231%        |
| 18        | 10.639      | 789           | 792         | 794          | rBV      | 1749346        | 1774326       | 30.17%          | 5.208%        |
| 19        | 10.765      | 801           | 803         | 807          | rBV      | 60831          | 104655        | 1.78%           | 0.307%        |
| 20        | 11.325      | 850           | 852         | 855          | rVB2     | 1007928        | 1065058       | 18.11%          | 3.126%        |
| 21        | 12.742      | 973           | 976         | 978          | rBV      | 140608         | 122899        | 2.09%           | 0.361%        |
| 22        | 12.914      | 988           | 991         | 993          | rBV      | 2625745        | 2506586       | 42.62%          | 7.357%        |
| 23        | 13.439      | 1035          | 1037        | 1039         | rBV      | 91542          | 94769         | 1.61%           | 0.278%        |
| 24        | 13.805      | 1067          | 1069        | 1076         | rVB2     | 121484         | 208261        | 3.54%           | 0.611%        |
| 25        | 13.954      | 1079          | 1082        | 1084         | rBV      | 1106124        | 1005398       | 17.09%          | 2.951%        |
| 26        | 14.034      | 1084          | 1089        | 1096         | rVB2     | 13992          | 60193         | 1.02%           | 0.177%        |
| 27        | 15.360      | 1202          | 1205        | 1207         | rBV      | 588135         | 687369        | 11.69%          | 2.017%        |
| 28        | 18.914      | 1510          | 1516        | 1528         | rVB2     | 11130          | 60928         | 1.04%           | 0.179%        |

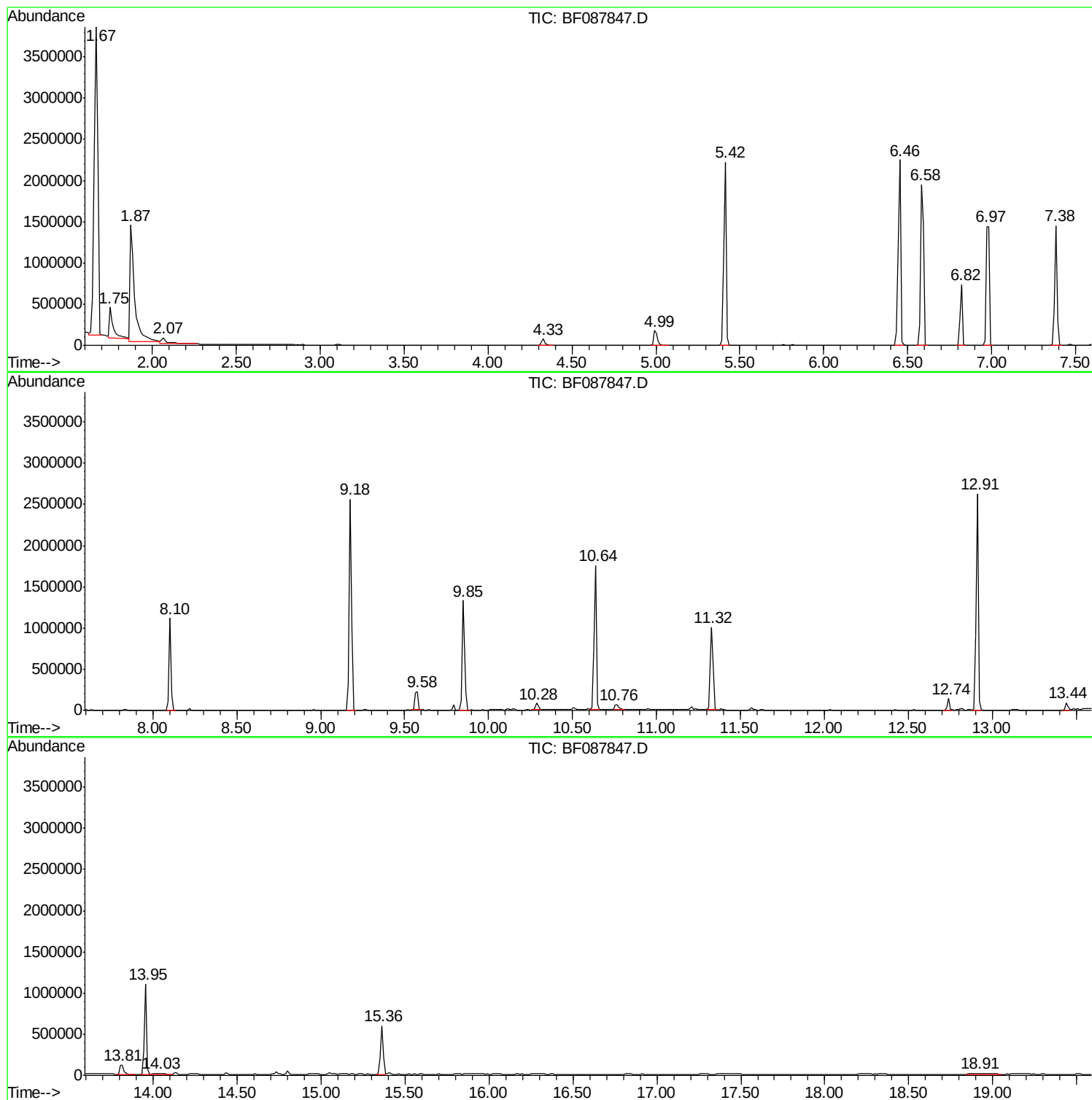
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ClientSampleId :  
1300-02-NW-06072016

Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF060716.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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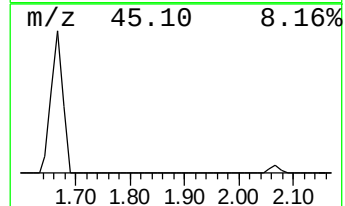
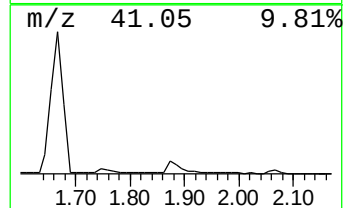
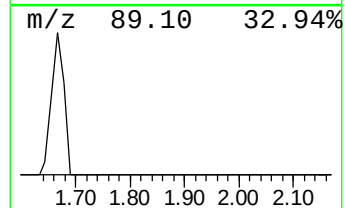
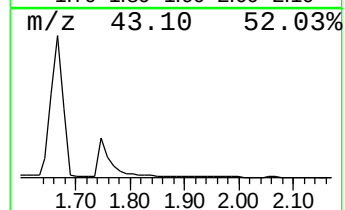
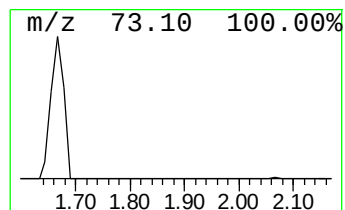
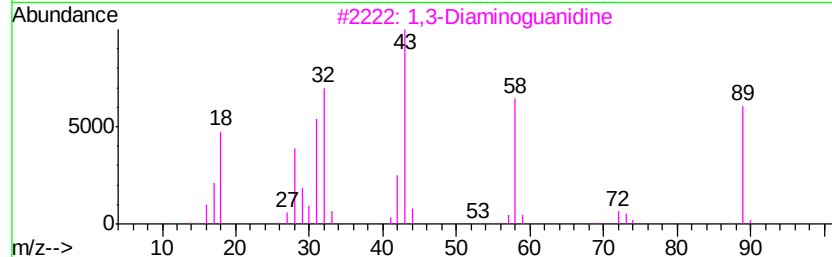
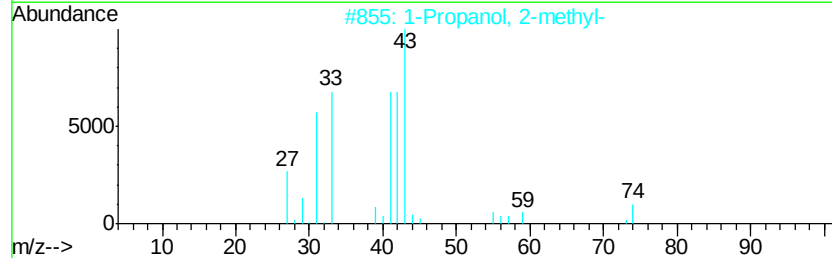
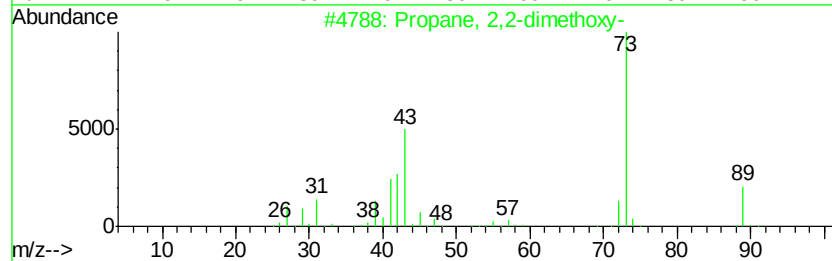
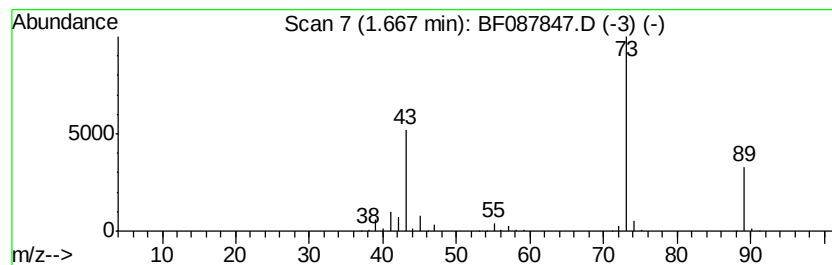
TIC Library : C:\Database\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 1 unknown1.67 Concentration Rank 1

| R.T. | EstConc   | Area    | Relative to ISTD       | R.T. |
|------|-----------|---------|------------------------|------|
| 1.67 | 163.17 ng | 5881260 | 1,4-Dichlorobenzene-d4 | 6.82 |

| Hit# | of | Tentative ID                        | MW  | MolForm       | CAS#         | Qual |
|------|----|-------------------------------------|-----|---------------|--------------|------|
| 1    | 5  | Propane, 2,2-dimethoxy-             | 104 | C5H12O2       | 000077-76-9  | 38   |
| 2    |    | 1-Propanol, 2-methyl-               | 74  | C4H10O        | 000078-83-1  | 9    |
| 3    |    | 1,3-Diaminoguanidine                | 89  | CH7N5         | 004364-78-7  | 9    |
| 4    |    | 2-Hydroxy-2-methylbutyric acid      | 118 | C5H10O3       | 003739-30-8  | 9    |
| 5    |    | 1,3-Dioxolane, 2-(3-bromo-5,5,5-... | 352 | C10H16BrCl3O2 | 1000115-31-4 | 9    |



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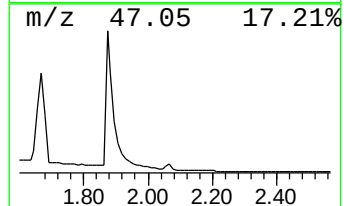
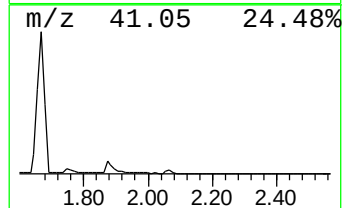
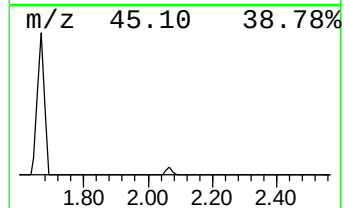
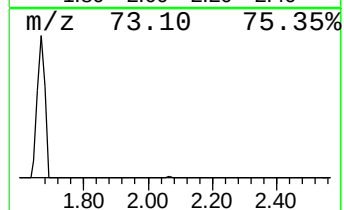
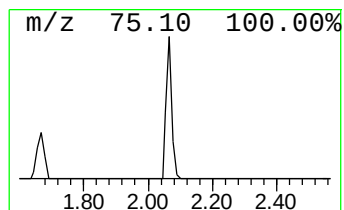
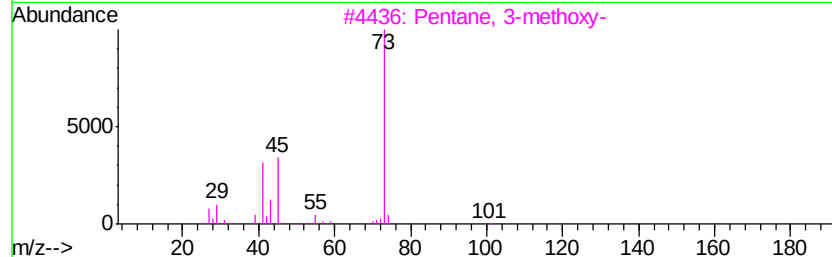
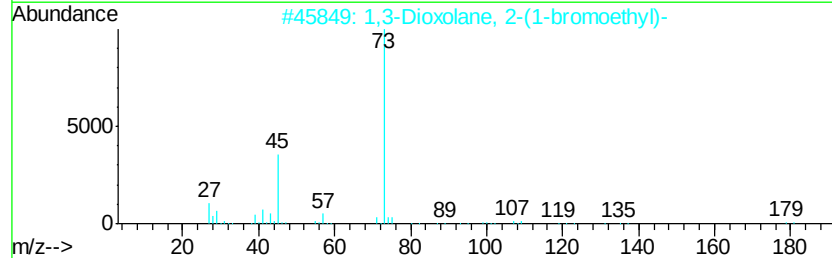
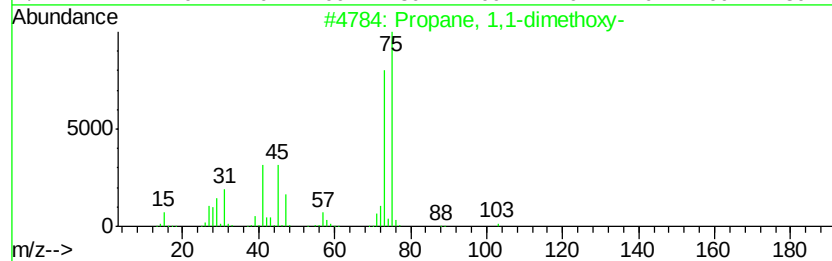
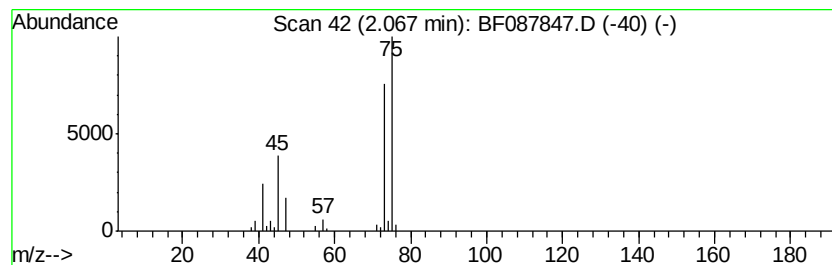
Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF060716.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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Peak Number 4 Propane, 1,1-dimethoxy- Concentration Rank 7

| R.T. | EstConc | Area   | Relative to ISTD       | R.T. |
|------|---------|--------|------------------------|------|
| 2.07 | 5.65 ng | 203570 | 1,4-Dichlorobenzene-d4 | 6.82 |

| Hit# | of | Tentative ID                      | MW  | MolForm  | CAS#        | Qual |
|------|----|-----------------------------------|-----|----------|-------------|------|
| 1    | 5  | Propane, 1,1-dimethoxy-           | 104 | C5H12O2  | 004744-10-9 | 78   |
| 2    |    | 1,3-Dioxolane, 2-(1-bromoethyl)-  | 180 | C5H9BrO2 | 005267-73-2 | 17   |
| 3    |    | Pentane, 3-methoxy-               | 102 | C6H14O   | 036839-67-5 | 12   |
| 4    |    | Glycolaldehyde dimethyl acetal    | 106 | C4H10O3  | 030934-97-5 | 9    |
| 5    |    | 1,3-Dioxolane, 2-(1-methylethyl)- | 116 | C6H12O2  | 000822-83-3 | 9    |



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ALS Vial : 4 Sample Multiplier: 1

Instrument :  
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ClientSampleId :  
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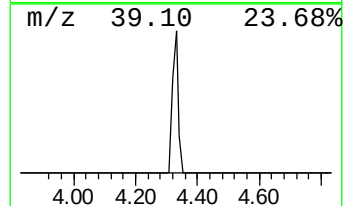
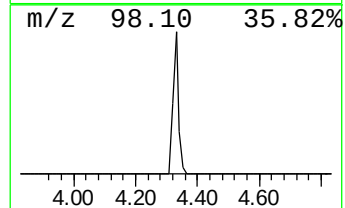
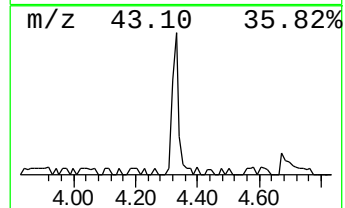
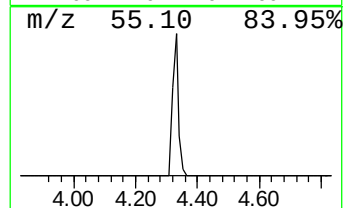
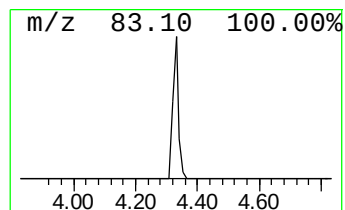
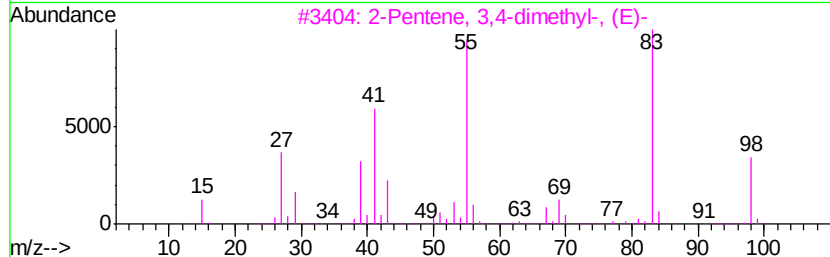
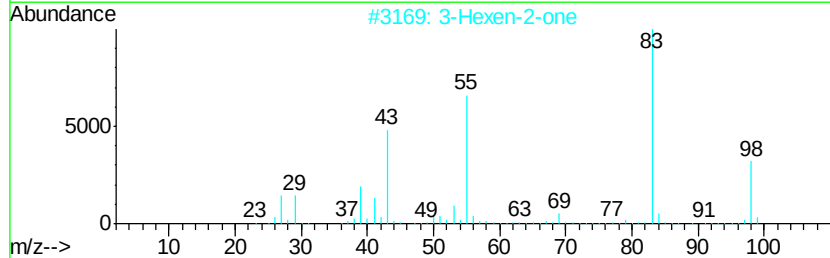
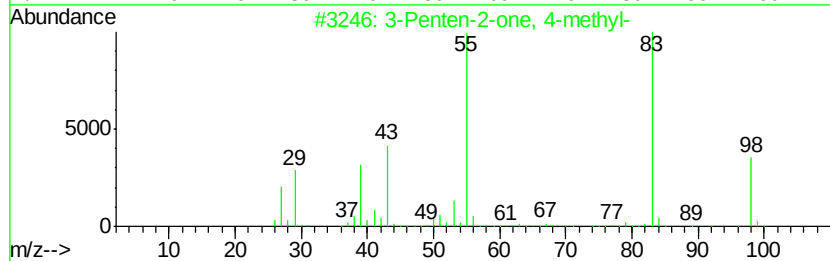
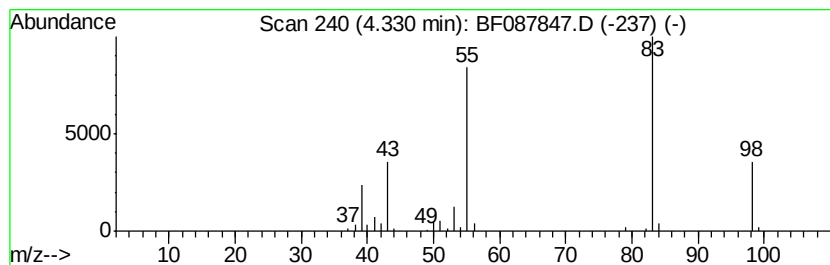
Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF060716.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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Peak Number 5 3-Penten-2-one, 4-methyl- Concentration Rank 9

| R.T. | EstConc | Area  | Relative to ISTD       | R.T. |
|------|---------|-------|------------------------|------|
| 4.33 | 2.66 ng | 95903 | 1,4-Dichlorobenzene-d4 | 6.82 |

| Hit# | of | Tentative ID                   | MW | MolForm | CAS#        | Qual |
|------|----|--------------------------------|----|---------|-------------|------|
| 1    | 5  | 3-Penten-2-one, 4-methyl-      | 98 | C6H10O  | 000141-79-7 | 94   |
| 2    |    | 3-Hexen-2-one                  | 98 | C6H10O  | 000763-93-9 | 90   |
| 3    |    | 2-Pentene, 3,4-dimethyl-, (E)- | 98 | C7H14   | 004914-92-5 | 86   |
| 4    |    | 2-Pentene, 2,4-dimethyl-       | 98 | C7H14   | 000625-65-0 | 80   |
| 5    |    | 2-Pentene, 4,4-dimethyl-, (E)- | 98 | C7H14   | 000690-08-4 | 72   |



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Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF060716.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

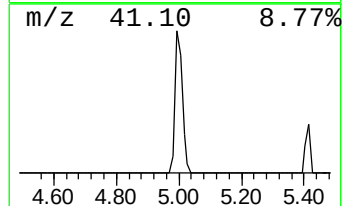
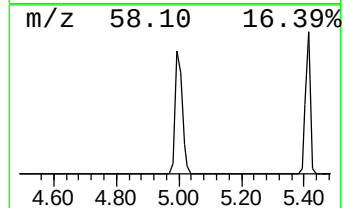
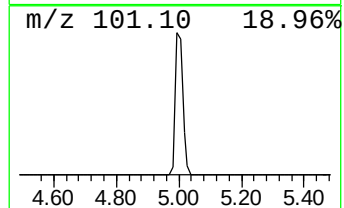
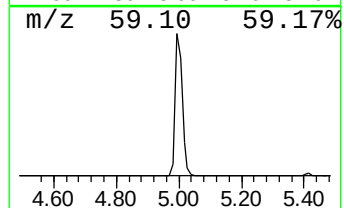
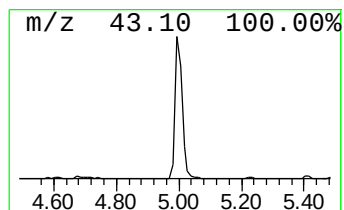
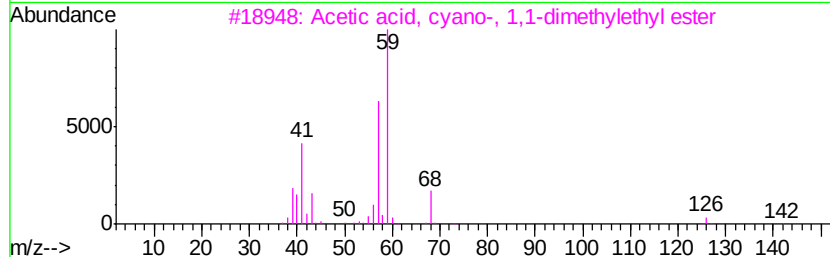
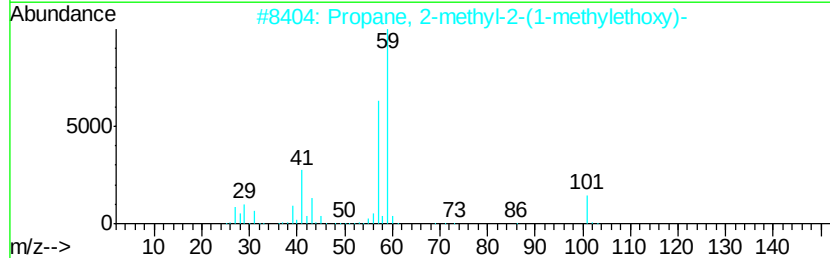
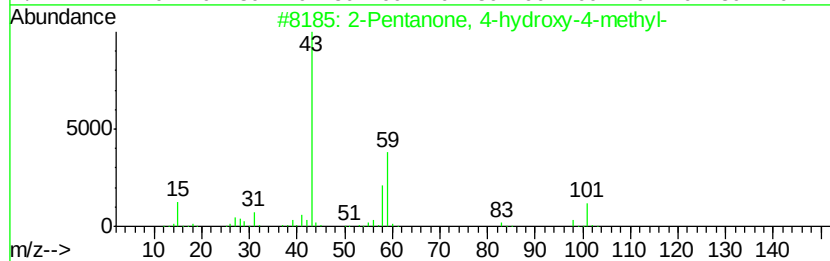
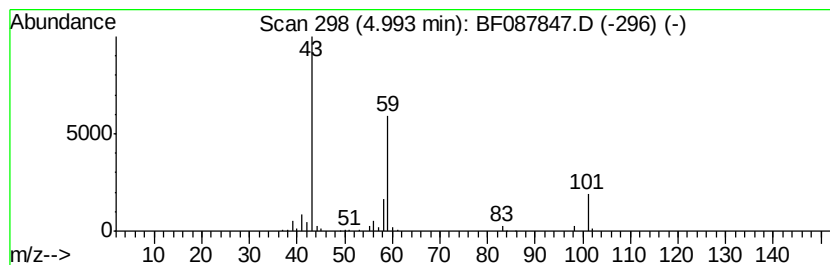
TIC Library : C:\Database\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 6 unknown4.99 Concentration Rank 6

| R.T. | EstConc | Area   | Relative to ISTD       | R.T. |
|------|---------|--------|------------------------|------|
| 4.99 | 7.24 ng | 261125 | 1,4-Dichlorobenzene-d4 | 6.82 |

| Hit# of 5 | Tentative ID                        | MW  | MolForm  | CAS#        | Qual |
|-----------|-------------------------------------|-----|----------|-------------|------|
| 1         | 2-Pentanone, 4-hydroxy-4-methyl-    | 116 | C6H12O2  | 000123-42-2 | 45   |
| 2         | Propane, 2-methyl-2-(1-methyleth... | 116 | C7H16O   | 017348-59-3 | 33   |
| 3         | Acetic acid, cyano-, 1,1-dimethy... | 141 | C7H11NO2 | 001116-98-9 | 25   |
| 4         | 2,3-Butanedione, monooxime          | 101 | C4H7NO2  | 000057-71-6 | 16   |
| 5         | 1-Propen-2-ol, acetate              | 100 | C5H8O2   | 000108-22-5 | 10   |



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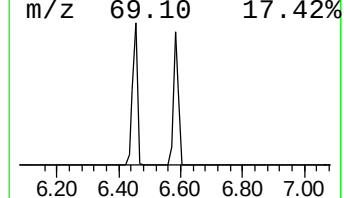
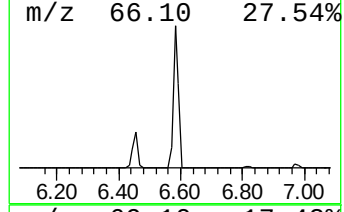
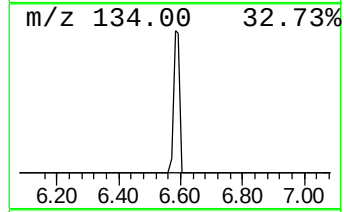
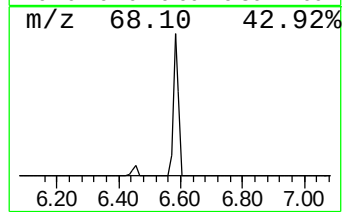
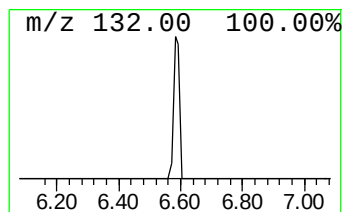
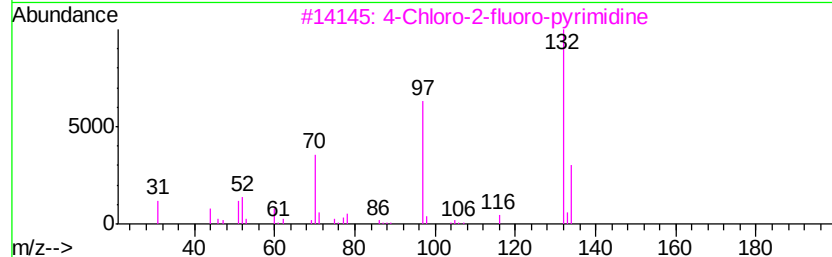
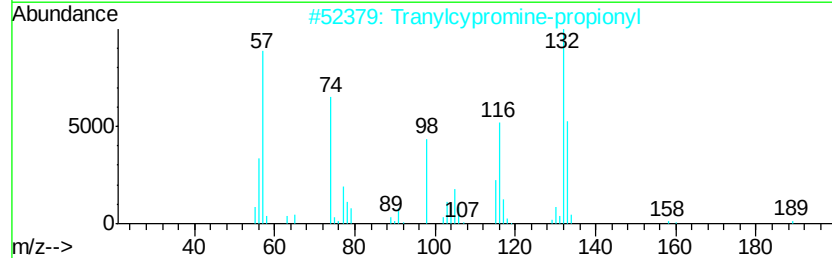
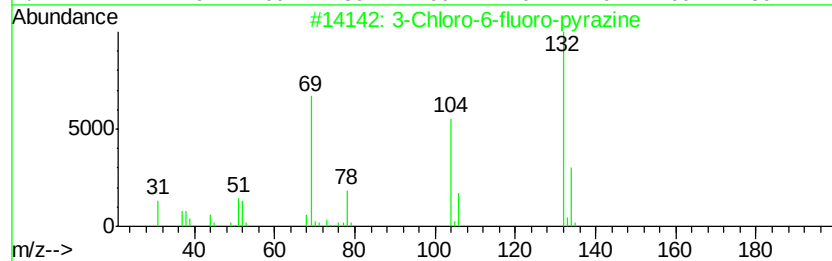
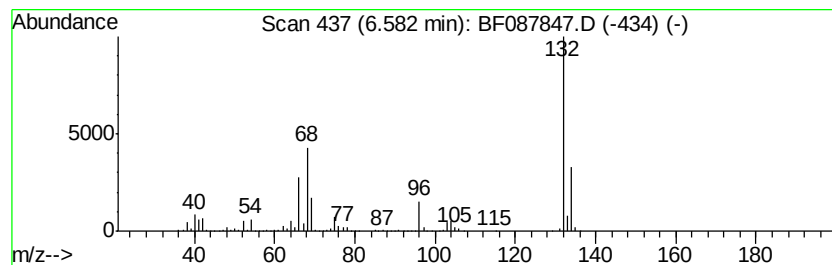
TIC Library : C:\Database\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 7 unknown6.58 Concentration Rank 3

| R.T. | EstConc  | Area    | Relative to ISTD       | R.T. |
|------|----------|---------|------------------------|------|
| 6.58 | 69.92 ng | 2520190 | 1,4-Dichlorobenzene-d4 | 6.82 |

| Hit# | of | Tentative ID                        | MW  | MolForm   | CAS#         | Qual |
|------|----|-------------------------------------|-----|-----------|--------------|------|
| 1    | 5  | 3-Chloro-6-fluoro-pyrazine          | 132 | C4H2ClFN2 | 1000146-10-7 | 27   |
| 2    |    | Tranylcypromine-propionyl           | 189 | C12H15NO  | 1000123-86-3 | 10   |
| 3    |    | 4-Chloro-2-fluoro-pyrimidine        | 132 | C4H2ClFN2 | 051422-00-5  | 9    |
| 4    |    | 4-Methylpyrrolo[1,2-a]pyrazine      | 132 | C8H8N2    | 064608-60-2  | 9    |
| 5    |    | 1,3,4-Thiadiazole-2(3H)-thione, ... | 132 | C3H4N2S2  | 029490-19-5  | 9    |



Data Path : Z:\HPCHEM1\BNA F\DATA\BF060916\  
Data File : BF087847.D  
Acq On : 9 Jun 2016 12:41  
Operator : UM/SJ  
Sample : H3477-02  
Misc :  
ALS Vial : 4 Sample Multiplier: 1

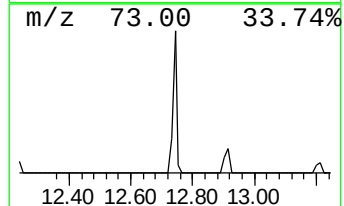
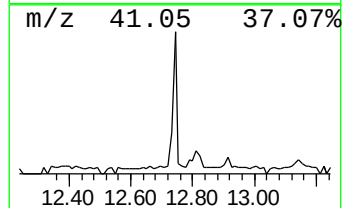
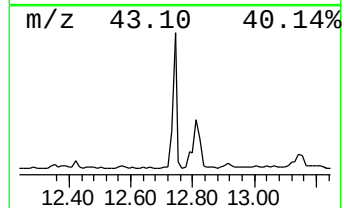
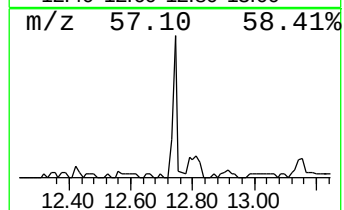
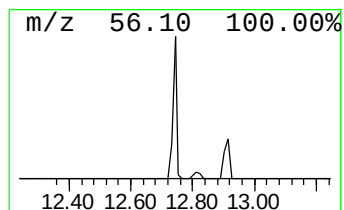
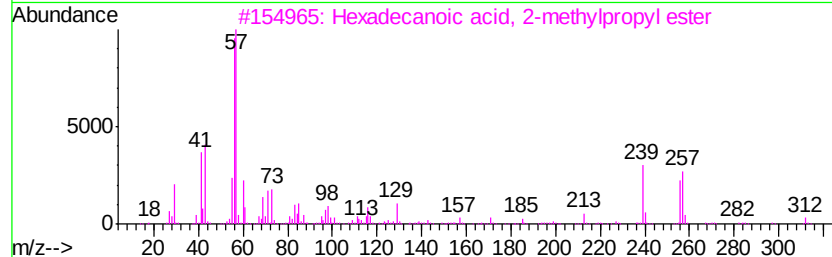
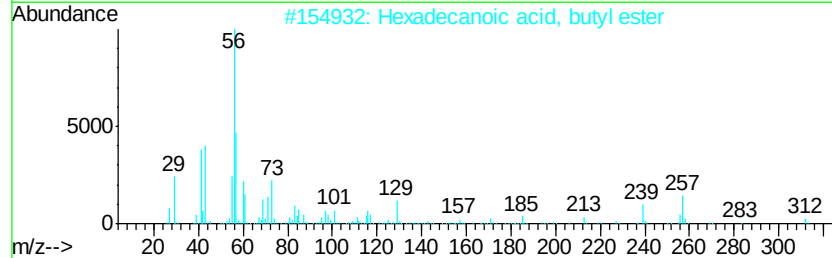
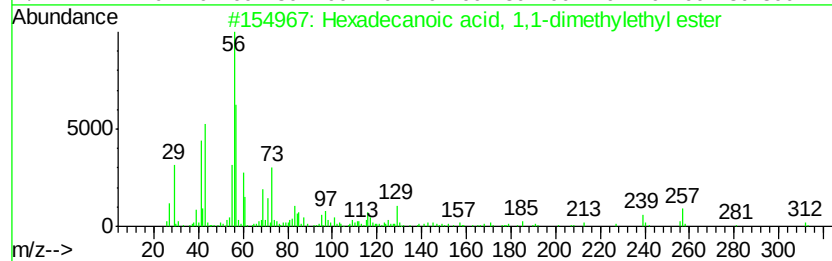
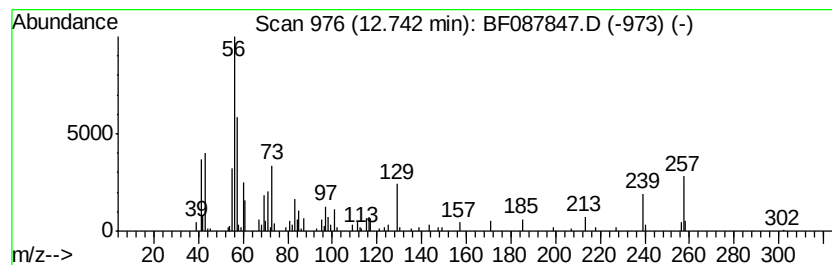
Instrument :  
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ClientSampleId :  
1300-02-NW-06072016

Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF060716.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

\*\*\*\*\*  
Peak Number 9 Hexadecanoic acid, 1,1-dime... Concentration Rank 10

| R.T.    | EstConc | Area                                | Relative to ISTD | R.T.     |             |      |
|---------|---------|-------------------------------------|------------------|----------|-------------|------|
| 12.74   | 2.44 ng | 122899                              | Chrysene-d12     | 13.95    |             |      |
| Hit# of | 5       | Tentative ID                        | MW               | MolForm  | CAS#        | Qual |
| 1       |         | Hexadecanoic acid, 1,1-dimethyle... | 312              | C20H40O2 | 031158-91-5 | 64   |
| 2       |         | Hexadecanoic acid, butyl ester      | 312              | C20H40O2 | 000111-06-8 | 45   |
| 3       |         | Hexadecanoic acid, 2-methylpropv... | 312              | C20H40O2 | 000110-34-9 | 32   |
| 4       |         | 2,4-Dipropyl-5-ethyl-1,3-dioxane    | 200              | C12H24O2 | 006413-83-8 | 32   |
| 5       |         | Cyclopropane, 1-(1-methylethyl)-... | 210              | C15H30   | 041977-39-3 | 25   |





Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF060916\  
Data File : BF087847.D  
Acq On : 9 Jun 2016 12:41  
Operator : UM/SJ  
Sample : H3477-02  
Misc :  
ALS Vial : 4 Sample Multiplier: 1

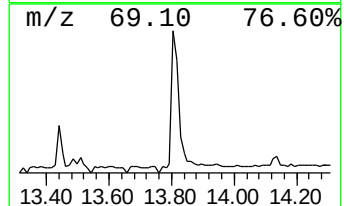
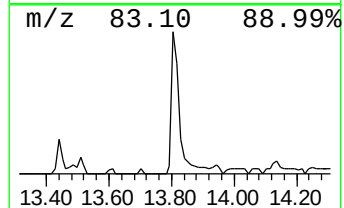
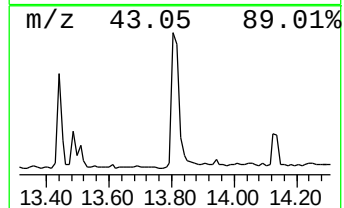
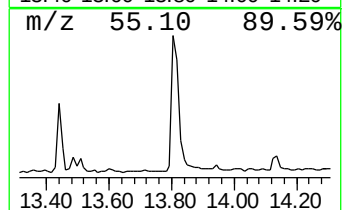
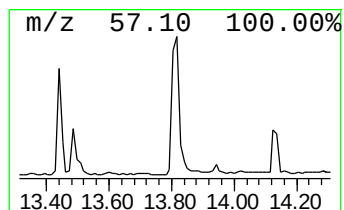
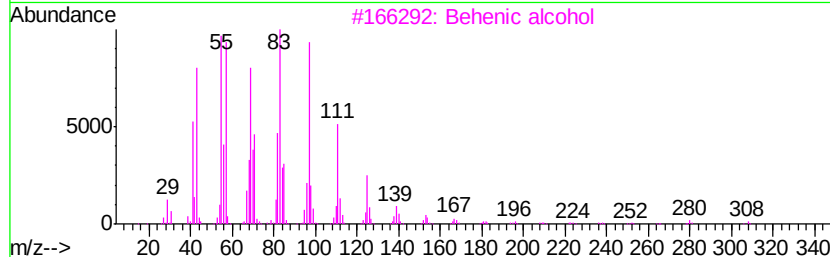
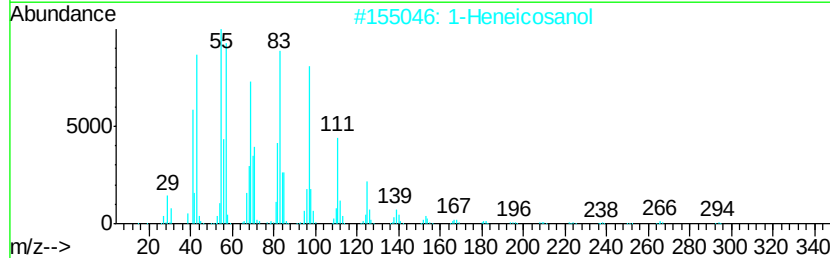
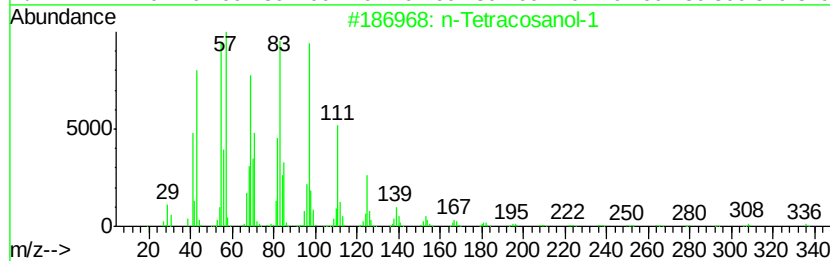
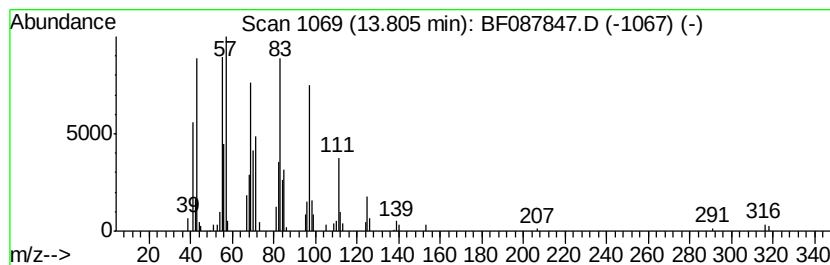
Instrument :  
BNA\_F  
ClientSampleId :  
1300-02-NW-06072016

Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF060716.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

\*\*\*\*\*  
Peak Number 10 n-Tetracosanol-1 Concentration Rank 8

| R.T.      | EstConc                             | Area   | Relative to ISTD | R.T.        |      |
|-----------|-------------------------------------|--------|------------------|-------------|------|
| 13.81     | 4.14 ng                             | 208261 | Chrysene-d12     | 13.95       |      |
| Hit# of 5 | Tentative ID                        | MW     | MolForm          | CAS#        | Qual |
| 1         | n-Tetracosanol-1                    | 354    | C24H50O          | 000506-51-4 | 94   |
| 2         | 1-Heneicosanol                      | 312    | C21H44O          | 015594-90-8 | 94   |
| 3         | Behenic alcohol                     | 326    | C22H46O          | 000661-19-8 | 94   |
| 4         | n-Nonadecanol-1                     | 284    | C19H40O          | 001454-84-8 | 91   |
| 5         | Trichloroacetic acid, tetradecyl... | 358    | C16H29Cl3O2      | 074339-52-9 | 91   |



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Sample : H3477-02  
Misc :  
ALS Vial : 4 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
1300-02-NW-06072016

Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF060716.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 |
| unknown1.67          | 1.67  | 163.2   | ng    | 5881260  | 1                     | 6.82  | 720879  | 20.0 |
| Propane, 1,1-dime... | 2.07  | 5.7     | ng    | 203570   | 1                     | 6.82  | 720879  | 20.0 |
| 3-Penten-2-one, 4... | 4.33  | 2.7     | ng    | 95903    | 1                     | 6.82  | 720879  | 20.0 |
| unknown4.99          | 4.99  | 7.2     | ng    | 261125   | 1                     | 6.82  | 720879  | 20.0 |
| unknown6.58          | 6.58  | 69.9    | ng    | 2520190  | 1                     | 6.82  | 720879  | 20.0 |
| Hexadecanoic acid... | 12.74 | 2.4     | ng    | 122899   | 5                     | 13.95 | 1005400 | 20.0 |
| n-Tetracosanol-1     | 13.81 | 4.1     | ng    | 208261   | 5                     | 13.95 | 1005400 | 20.0 |