

Data Path : V:\HPCHEM1\BNA F\DATA\BF112015\  
 Data File : BF083093.D  
 Acq On : 20 Nov 2015 21:29  
 Operator : UM/IZ  
 Sample : G4452-10  
 Misc :  
 ALS Vial : 15 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 RW-20151116-10

Integration Parameters: rteint.p  
 Integrator: RTE  
 Smoothing : ON  
 Sampling : 1  
 Start Thrs: 0.2  
 Stop Thrs : 0

Filtering: 5  
 Min Area: 3 % 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\_F\METHODS\8270-BF111915.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         | 4.841       | 238           | 241         | 244          | rBV      | 1364619        | 2202732       | 47.60%          | 5.232%        |
| 2         | 5.299       | 278           | 281         | 283          | rBV      | 4379005        | 4214399       | 91.07%          | 10.010%       |
| 3         | 6.350       | 370           | 373         | 376          | rBV2     | 3955926        | 4425934       | 95.64%          | 10.512%       |
| 4         | 6.476       | 381           | 384         | 386          | rBV      | 3387605        | 4441094       | 95.97%          | 10.548%       |
| 5         | 6.704       | 401           | 404         | 406          | rBV      | 676105         | 920006        | 19.88%          | 2.185%        |
| 6         | 6.853       | 415           | 417         | 420          | rBV      | 2987998        | 3378250       | 73.00%          | 8.024%        |
| 7         | 7.265       | 450           | 453         | 455          | rBV      | 2657665        | 2494523       | 53.91%          | 5.925%        |
| 8         | 7.379       | 459           | 463         | 466          | rBV      | 48737          | 53752         | 1.16%           | 0.128%        |
| 9         | 7.985       | 514           | 516         | 524          | rVB2     | 1143970        | 1272961       | 27.51%          | 3.024%        |
| 10        | 8.385       | 548           | 551         | 552          | rVB      | 58326          | 60690         | 1.31%           | 0.144%        |
| 11        | 8.465       | 554           | 558         | 559          | rBV      | 54414          | 57071         | 1.23%           | 0.136%        |
| 12        | 8.556       | 564           | 566         | 567          | rBV      | 111613         | 80680         | 1.74%           | 0.192%        |
| 13        | 8.705       | 576           | 579         | 581          | rBV      | 762928         | 649577        | 14.04%          | 1.543%        |
| 14        | 8.796       | 585           | 587         | 590          | rVB      | 326079         | 332976        | 7.20%           | 0.791%        |
| 15        | 9.070       | 608           | 611         | 613          | rBV      | 5227406        | 4627503       | 100.00%         | 10.991%       |
| 16        | 9.162       | 616           | 619         | 621          | rBV2     | 45759          | 66766         | 1.44%           | 0.159%        |
| 17        | 9.265       | 626           | 628         | 630          | rVB      | 67297          | 78568         | 1.70%           | 0.187%        |
| 18        | 9.333       | 630           | 634         | 636          | rVB2     | 129291         | 186366        | 4.03%           | 0.443%        |
| 19        | 9.402       | 636           | 640         | 641          | rBV      | 260515         | 270602        | 5.85%           | 0.643%        |
| 20        | 9.425       | 641           | 642         | 644          | rVV      | 84604          | 108234        | 2.34%           | 0.257%        |
| 21        | 9.470       | 644           | 646         | 647          | rVV      | 807152         | 862687        | 18.64%          | 2.049%        |
| 22        | 9.516       | 647           | 650         | 653          | rVV      | 85779          | 124086        | 2.68%           | 0.295%        |
| 23        | 9.596       | 655           | 657         | 660          | rVB      | 42442          | 66008         | 1.43%           | 0.157%        |
| 24        | 9.745       | 667           | 670         | 672          | rBV      | 1168997        | 1306418       | 28.23%          | 3.103%        |
| 25        | 9.951       | 684           | 688         | 689          | rBV3     | 88918          | 138370        | 2.99%           | 0.329%        |
| 26        | 9.985       | 689           | 691         | 695          | rVB2     | 86676          | 122307        | 2.64%           | 0.291%        |
| 27        | 10.065      | 695           | 698         | 699          | rBV2     | 45178          | 63336         | 1.37%           | 0.150%        |
| 28        | 10.168      | 702           | 707         | 708          | rBV3     | 68131          | 128256        | 2.77%           | 0.305%        |
| 29        | 10.191      | 708           | 709         | 711          | rVB      | 86142          | 65445         | 1.41%           | 0.155%        |
| 30        | 10.248      | 711           | 714         | 715          | rBV2     | 57560          | 83030         | 1.79%           | 0.197%        |
| 31        | 10.305      | 718           | 719         | 721          | rVB2     | 50273          | 49825         | 1.08%           | 0.118%        |
| 32        | 10.351      | 721           | 723         | 726          | rBV3     | 74474          | 116089        | 2.51%           | 0.276%        |
| 33        | 10.408      | 726           | 728         | 730          | rVV2     | 31375          | 56299         | 1.22%           | 0.134%        |
| 34        | 10.442      | 730           | 731         | 736          | rVV2     | 51370          | 53782         | 1.16%           | 0.128%        |

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Misc :  
ALS Vial : 15 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
RW-20151116-10

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-BF111915.M  
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

|    |        |      |      |      |      |         |         |        |        |
|----|--------|------|------|------|------|---------|---------|--------|--------|
| 35 | 10.522 | 736  | 738  | 741  | rVV2 | 1421341 | 1608755 | 34.77% | 3.821% |
| 36 | 10.659 | 747  | 750  | 754  | rBV2 | 99261   | 182000  | 3.93%  | 0.432% |
| 37 | 11.116 | 787  | 790  | 791  | rBV  | 58892   | 65295   | 1.41%  | 0.155% |
| 38 | 11.219 | 796  | 799  | 801  | rBV  | 1266991 | 1120706 | 24.22% | 2.662% |
| 39 | 11.539 | 825  | 827  | 829  | rVB  | 61673   | 54093   | 1.17%  | 0.128% |
| 40 | 12.419 | 903  | 904  | 907  | rVB  | 37416   | 51765   | 1.12%  | 0.123% |
| 41 | 12.648 | 921  | 924  | 927  | rBV  | 134857  | 132146  | 2.86%  | 0.314% |
| 42 | 12.808 | 935  | 938  | 940  | rBV  | 3932232 | 3523212 | 76.14% | 8.368% |
| 43 | 13.357 | 984  | 986  | 988  | rBV  | 58785   | 64146   | 1.39%  | 0.152% |
| 44 | 13.734 | 1016 | 1019 | 1024 | rBV  | 48693   | 92624   | 2.00%  | 0.220% |
| 45 | 13.848 | 1026 | 1029 | 1035 | rVB  | 1228690 | 1135725 | 24.54% | 2.698% |
| 46 | 13.962 | 1037 | 1039 | 1041 | rBV2 | 43631   | 56236   | 1.22%  | 0.134% |
| 47 | 15.231 | 1147 | 1150 | 1153 | rBV  | 714394  | 806296  | 17.42% | 1.915% |
| 48 | 15.677 | 1186 | 1189 | 1192 | rBV  | 29299   | 50444   | 1.09%  | 0.120% |

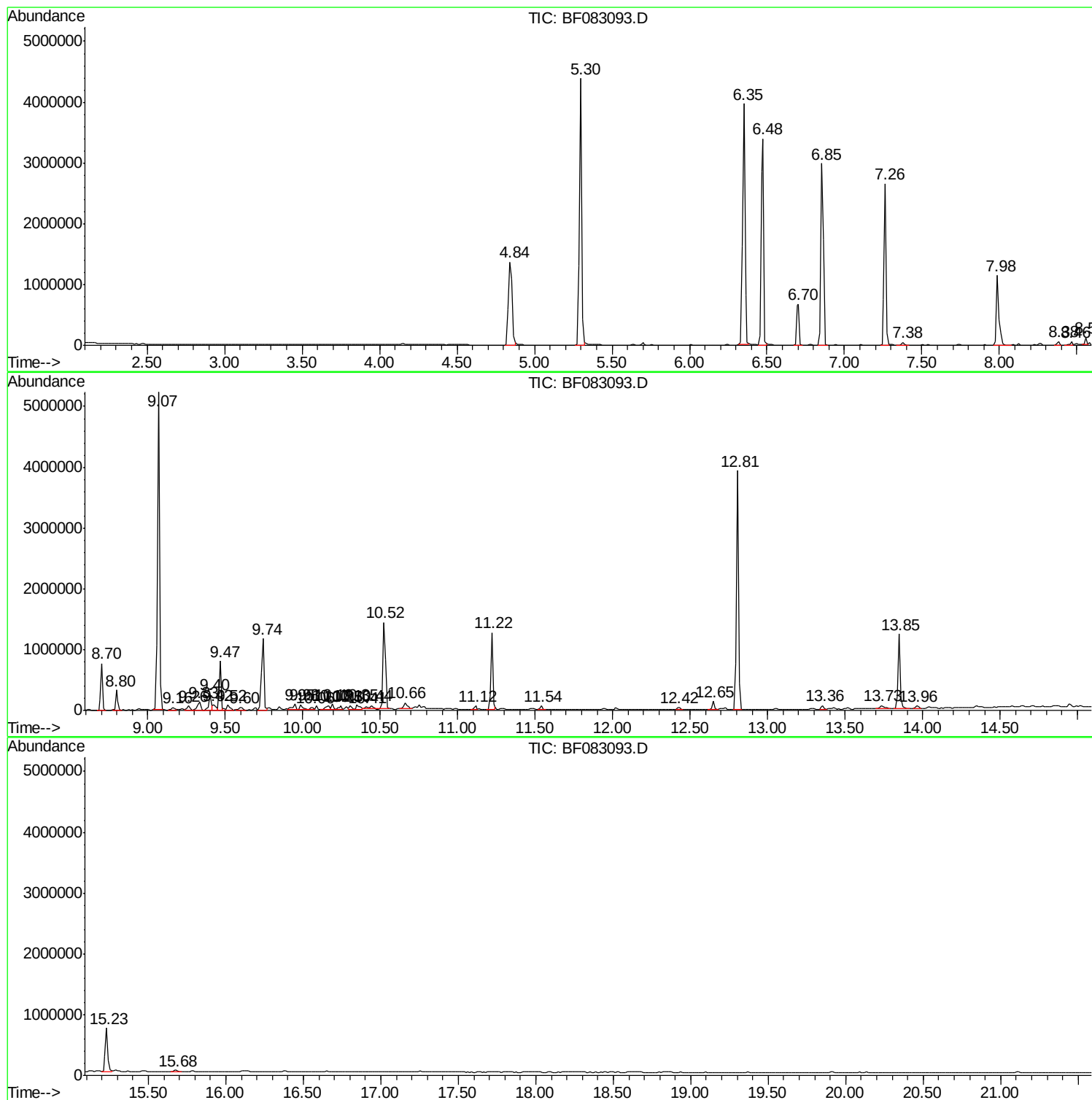
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Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF111915.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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



Data Path : V:\HPCHEM1\BNA F\DATA\BF112015\  
Data File : BF083093.D  
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Misc :  
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Instrument :  
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Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF111915.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

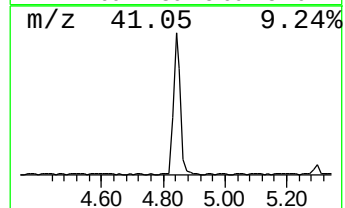
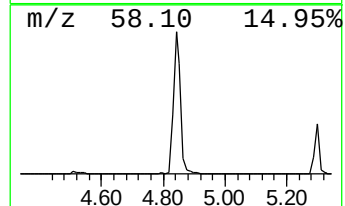
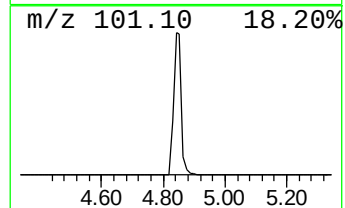
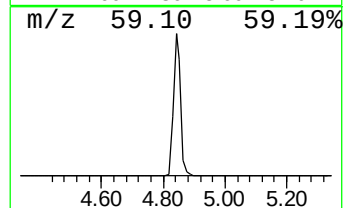
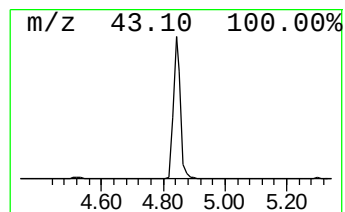
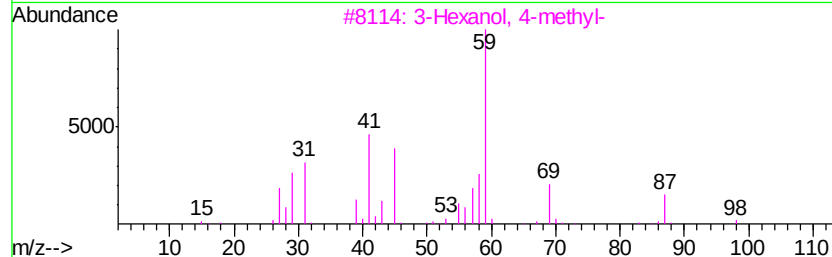
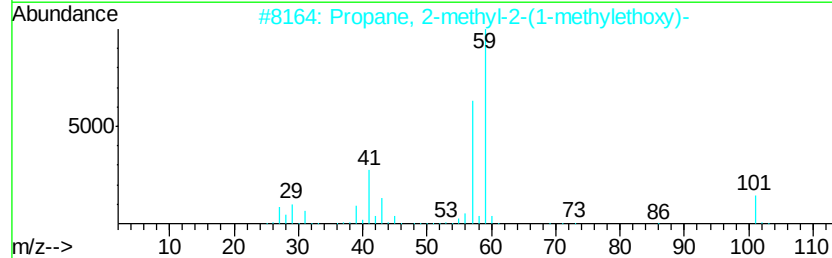
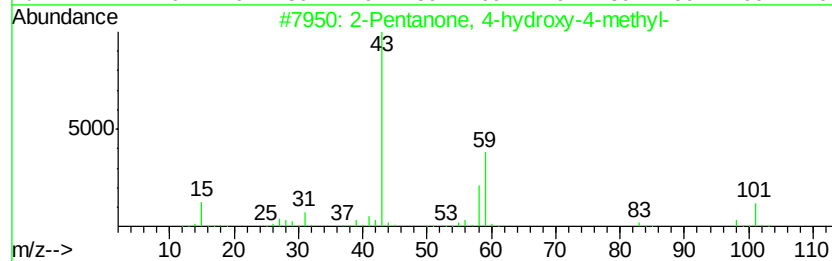
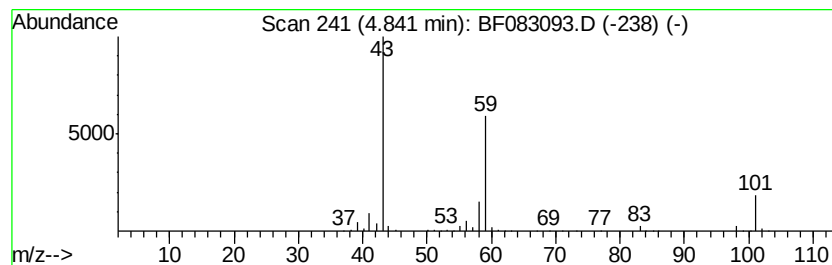
TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P

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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. |
|------|----------|---------|------------------------|------|
| 4.84 | 47.89 ng | 2202730 | 1,4-Dichlorobenzene-d4 | 6.70 |

| Hit# | of | 5 | Tentative ID                        | MW  | MolForm  | CAS#        | Qual |
|------|----|---|-------------------------------------|-----|----------|-------------|------|
| 1    |    |   | 2-Pentanone, 4-hydroxy-4-methyl-    | 116 | C6H12O2  | 000123-42-2 | 50   |
| 2    |    |   | Propane, 2-methyl-2-(1-methyleth... | 116 | C7H16O   | 017348-59-3 | 33   |
| 3    |    |   | 3-Hexanol, 4-methyl-                | 116 | C7H16O   | 000615-29-2 | 33   |
| 4    |    |   | 2-Hexanol, 2-methyl-                | 116 | C7H16O   | 000625-23-0 | 33   |
| 5    |    |   | Acetic acid, cyano-, 1,1-dimethy... | 141 | C7H11NO2 | 001116-98-9 | 32   |



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ClientSampleId :  
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Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF111915.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

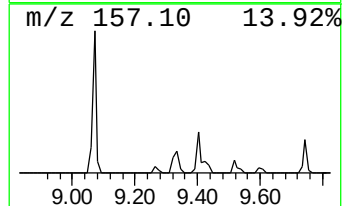
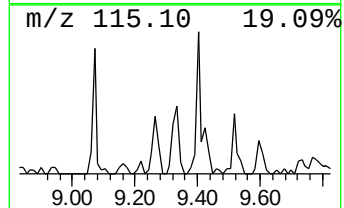
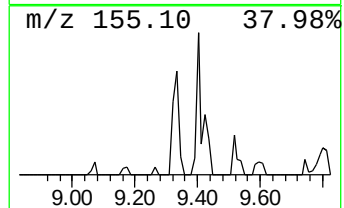
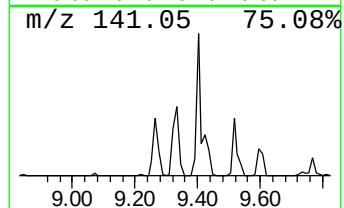
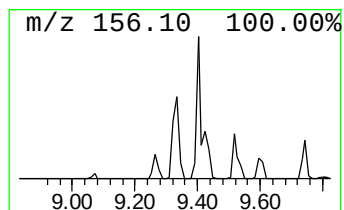
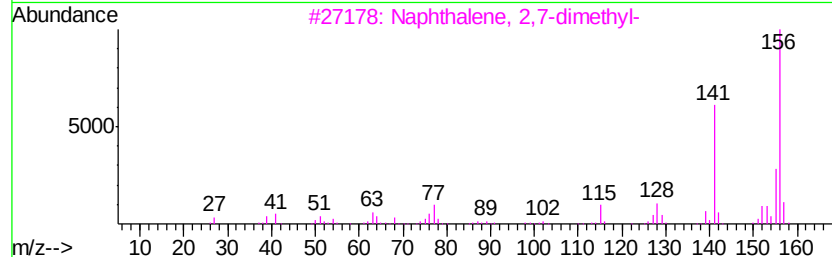
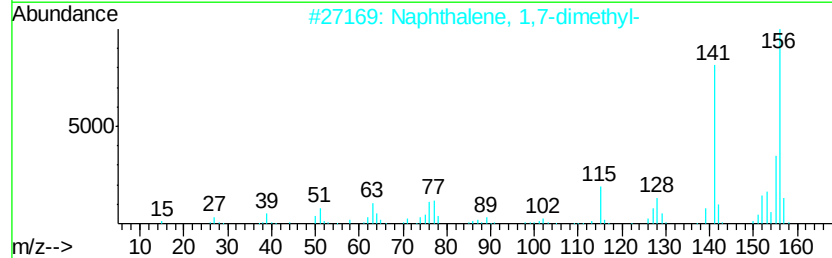
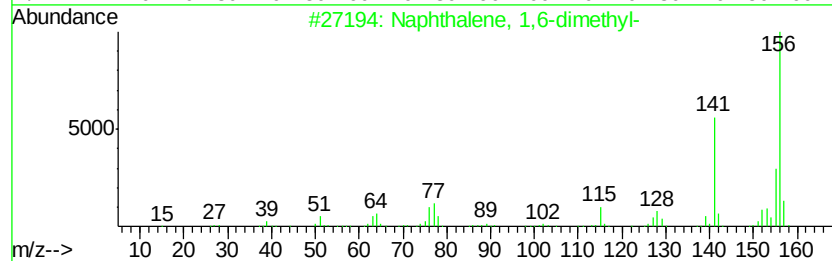
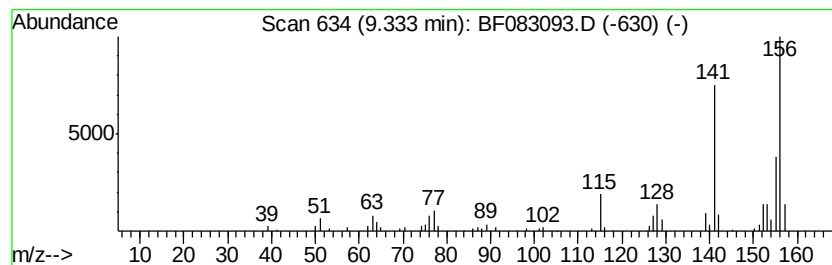
TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 5 Naphthalene, 1,6-dimethyl- Concentration Rank 7

| R.T. | EstConc | Area   | Relative to ISTD | R.T. |
|------|---------|--------|------------------|------|
| 9.33 | 2.85 ng | 186366 | Acenaphthene-d10 | 9.74 |

| Hit# of | 5 | Tentative ID               | MW  | MolForm | CAS#        | Qual |
|---------|---|----------------------------|-----|---------|-------------|------|
| 1       |   | Naphthalene, 1,6-dimethyl- | 156 | C12H12  | 000575-43-9 | 97   |
| 2       |   | Naphthalene, 1,7-dimethyl- | 156 | C12H12  | 000575-37-1 | 96   |
| 3       |   | Naphthalene, 2,7-dimethyl- | 156 | C12H12  | 000582-16-1 | 96   |
| 4       |   | Naphthalene, 2,3-dimethyl- | 156 | C12H12  | 000581-40-8 | 96   |
| 5       |   | Naphthalene, 1,5-dimethyl- | 156 | C12H12  | 000571-61-9 | 96   |



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Misc :  
ALS Vial : 15 Sample Multiplier: 1

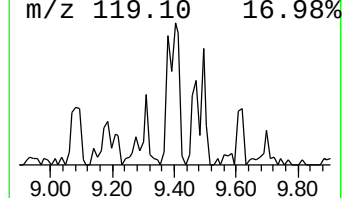
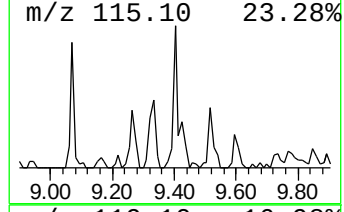
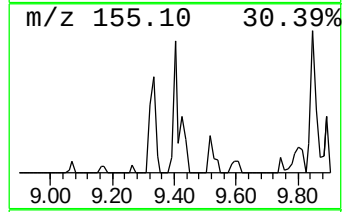
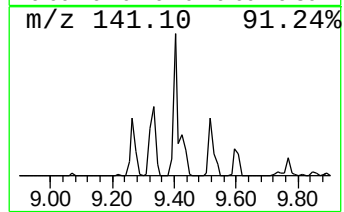
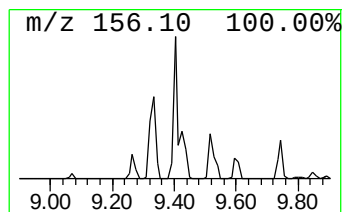
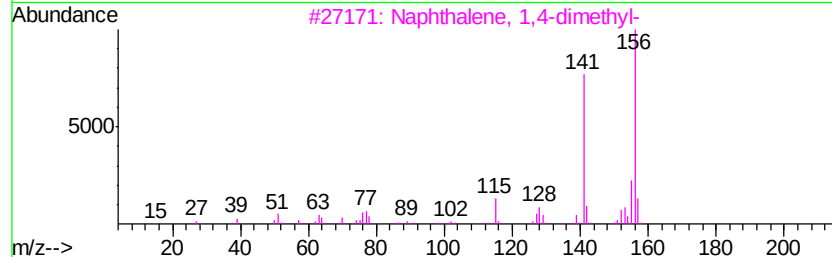
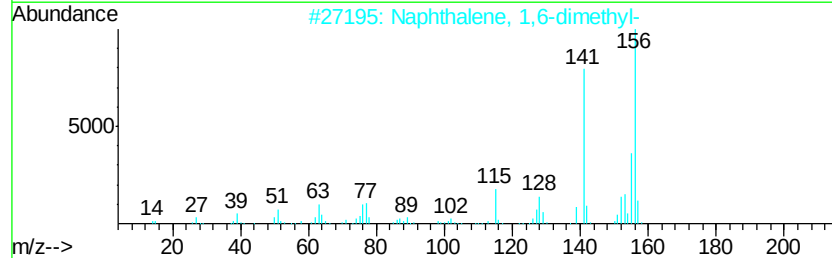
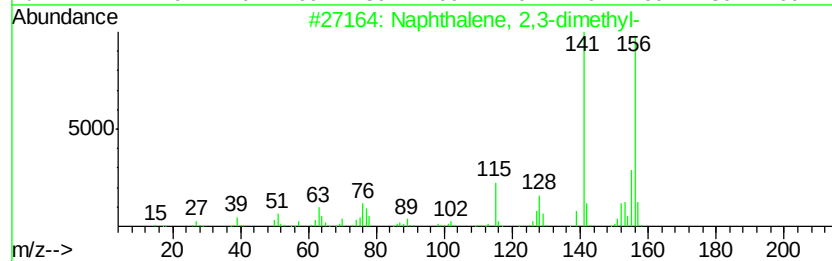
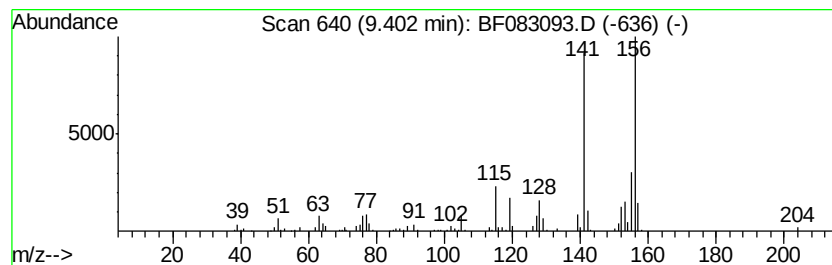
Instrument :  
BNA\_F  
ClientSampleId :  
RW-20151116-10

Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF111915.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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Peak Number 6 Naphthalene, 2,3-dimethyl- Concentration Rank 5

| R.T.      | EstConc                    | Area   | Relative to ISTD |             | R.T. |
|-----------|----------------------------|--------|------------------|-------------|------|
| 9.40      | 4.14 ng                    | 270602 | Acenaphthene-d10 |             | 9.74 |
| Hit# of 5 | Tentative ID               | MW     | MolForm          | CAS#        | Qual |
| 1         | Naphthalene, 2,3-dimethyl- | 156    | C12H12           | 000581-40-8 | 98   |
| 2         | Naphthalene, 1,6-dimethyl- | 156    | C12H12           | 000575-43-9 | 96   |
| 3         | Naphthalene, 1,4-dimethyl- | 156    | C12H12           | 000571-58-4 | 96   |
| 4         | Naphthalene, 2,7-dimethyl- | 156    | C12H12           | 000582-16-1 | 95   |
| 5         | Naphthalene, 1,7-dimethyl- | 156    | C12H12           | 000575-37-1 | 95   |



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Misc :  
ALS Vial : 15 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
RW-20151116-10

Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF111915.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

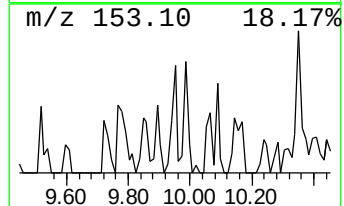
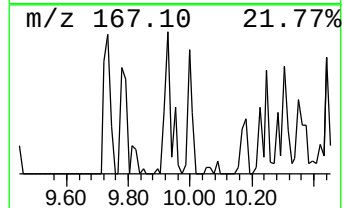
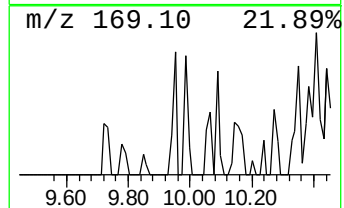
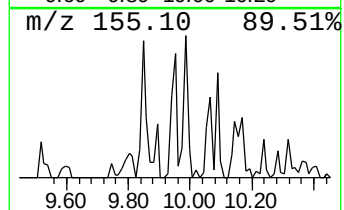
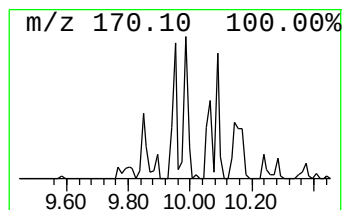
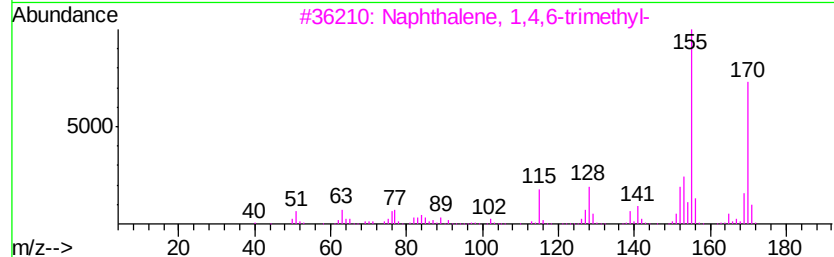
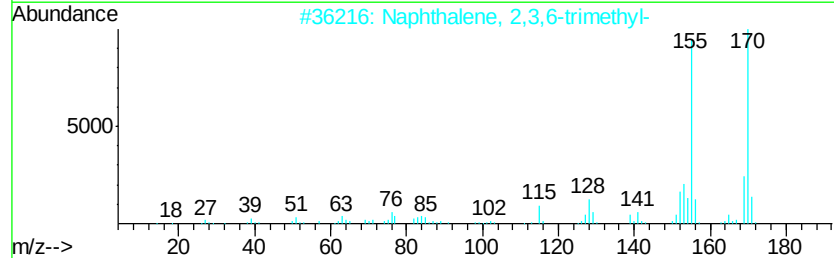
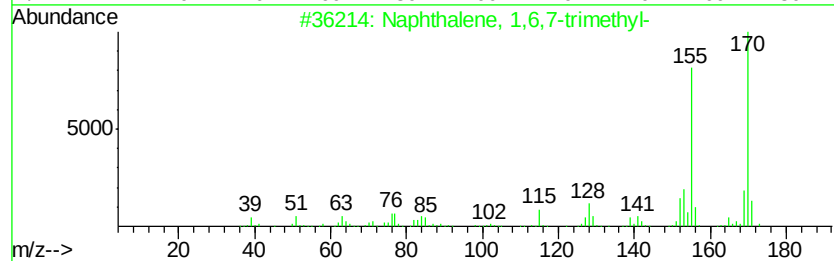
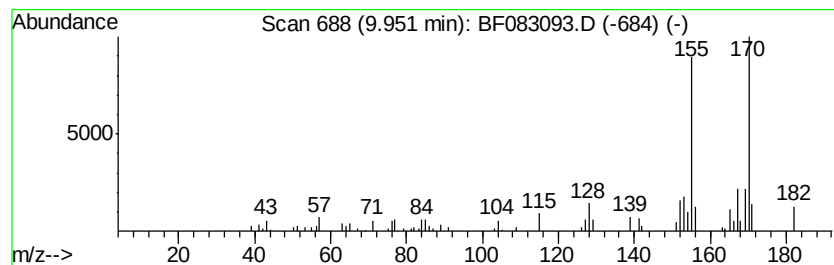
TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 7 Naphthalene, 1,6,7-trimethyl- Concentration Rank 9

| R.T. | EstConc | Area   | Relative to ISTD | R.T. |
|------|---------|--------|------------------|------|
| 9.95 | 2.12 ng | 138370 | Acenaphthene-d10 | 9.74 |

| Hit# | of | Tentative ID                        | MW  | MolForm | CAS#         | Qual |
|------|----|-------------------------------------|-----|---------|--------------|------|
| 1    | 5  | Naphthalene, 1,6,7-trimethyl-       | 170 | C13H14  | 002245-38-7  | 98   |
| 2    |    | Naphthalene, 2,3,6-trimethyl-       | 170 | C13H14  | 000829-26-5  | 96   |
| 3    |    | Naphthalene, 1,4,6-trimethyl-       | 170 | C13H14  | 002131-42-2  | 94   |
| 4    |    | Naphthalene, 1,4,5-trimethyl-       | 170 | C13H14  | 002131-41-1  | 94   |
| 5    |    | 1-(2,2-Dimethylcyclopropyl)-2-ph... | 170 | C13H14  | 1000294-91-1 | 81   |



Data Path : V:\HPCHEM1\BNA F\DATA\BF112015\  
Data File : BF083093.D  
Acq On : 20 Nov 2015 21:29  
Operator : UM/IZ  
Sample : G4452-10  
Misc :  
ALS Vial : 15 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
RW-20151116-10

Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF111915.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

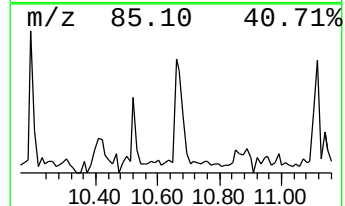
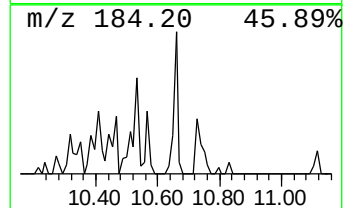
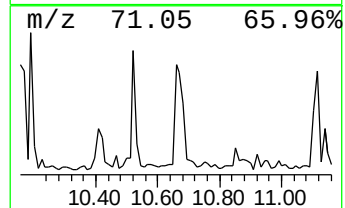
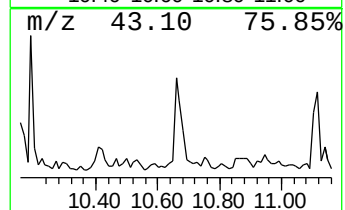
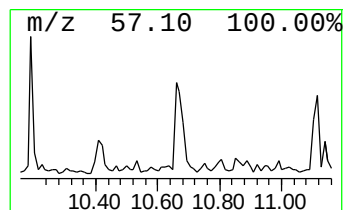
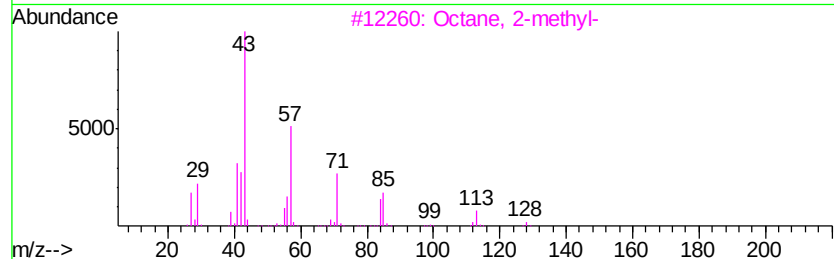
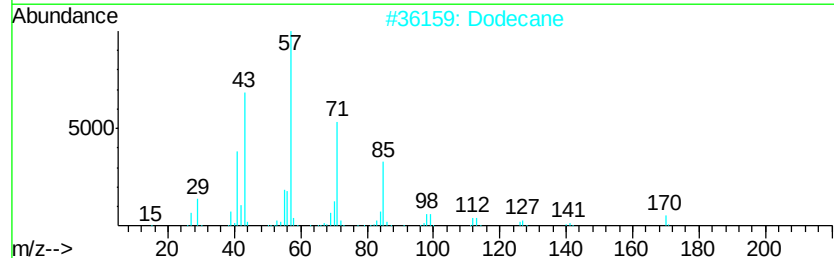
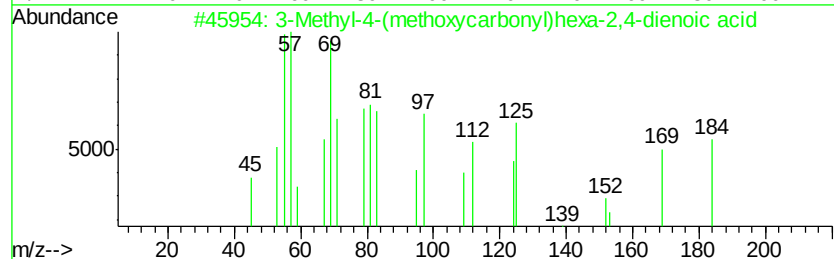
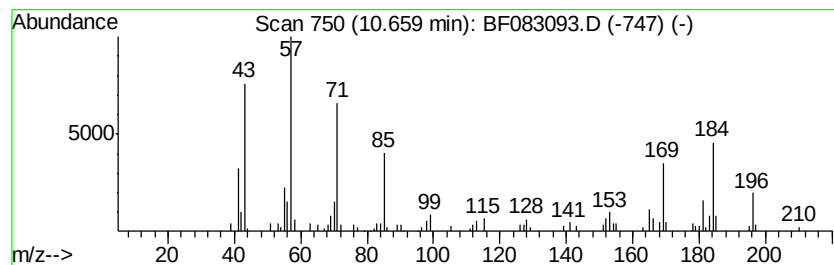
TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 8 3-Methyl-4-(methoxycarbonyl... Concentration Rank 6

| R.T.  | EstConc | Area   | Relative to ISTD | R.T.  |
|-------|---------|--------|------------------|-------|
| 10.66 | 3.25 ng | 182000 | Phenanthrene-d10 | 11.22 |

| Hit# | of | Tentative ID                        | MW  | MolForm | CAS#         | Qual |
|------|----|-------------------------------------|-----|---------|--------------|------|
| 1    | 5  | 3-Methyl-4-(methoxycarbonyl)hexa... | 184 | C9H12O4 | 1000104-10-8 | 86   |
| 2    |    | Dodecane                            | 170 | C12H26  | 000112-40-3  | 60   |
| 3    |    | Octane, 2-methyl-                   | 128 | C9H20   | 003221-61-2  | 38   |
| 4    |    | Octacosane                          | 394 | C28H58  | 000630-02-4  | 38   |
| 5    |    | Tridecane, 6-propyl-                | 226 | C16H34  | 055045-10-8  | 35   |





Data Path : V:\HPCHEM1\BNA\_F\DATA\BF112015\  
Data File : BF083093.D  
Acq On : 20 Nov 2015 21:29  
Operator : UM/IZ  
Sample : G4452-10  
Misc :  
ALS Vial : 15 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
RW-20151116-10

Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF111915.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

| TIC Top Hit name     | RT    | EstConc | Units | Response | --Internal Standard-- |       |         |      |
|----------------------|-------|---------|-------|----------|-----------------------|-------|---------|------|
|                      |       |         |       |          | #                     | RT    | Resp    | Conc |
| 2-Pentanone, 4-hy... | 4.84  | 47.9    | ng    | 2202730  | 1                     | 6.70  | 920006  | 20.0 |
| Naphthalene, 1,6-... | 9.33  | 2.9     | ng    | 186366   | 3                     | 9.74  | 1306420 | 20.0 |
| Naphthalene, 2,3-... | 9.40  | 4.1     | ng    | 270602   | 3                     | 9.74  | 1306420 | 20.0 |
| Naphthalene, 1,6,... | 9.95  | 2.1     | ng    | 138370   | 3                     | 9.74  | 1306420 | 20.0 |
| 3-Methyl-4-(metho... | 10.66 | 3.3     | ng    | 182000   | 4                     | 11.22 | 1120710 | 20.0 |