

Data Path : Z:\HPCHEM1\BNA F\DATA\BF121916\  
 Data File : BF091805.D  
 Acq On : 20 Dec 2016 6:02  
 Operator : UM/SJ  
 Sample : H6099-14 5X  
 Misc :  
 ALS Vial : 25 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 TP12-2.5-3FT

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-BF121716.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         | 2.144       | 3             | 5           | 27           | rVB4     | 60603          | 315682        | 12.41%          | 1.047%        |
| 2         | 4.304       | 191           | 194         | 197          | rBV      | 33219          | 46543         | 1.83%           | 0.154%        |
| 3         | 4.910       | 245           | 247         | 250          | rBV      | 430194         | 495960        | 19.50%          | 1.646%        |
| 4         | 5.356       | 284           | 286         | 289          | rBV      | 1119427        | 1100164       | 43.25%          | 3.651%        |
| 5         | 6.304       | 367           | 369         | 373          | rVB      | 30383          | 29692         | 1.17%           | 0.099%        |
| 6         | 6.407       | 376           | 378         | 380          | rBV      | 1305065        | 1219879       | 47.96%          | 4.048%        |
| 7         | 6.533       | 386           | 389         | 391          | rBV      | 970516         | 1193662       | 46.93%          | 3.961%        |
| 8         | 6.761       | 406           | 409         | 411          | rBV      | 1420861        | 1352070       | 53.15%          | 4.486%        |
| 9         | 6.910       | 420           | 422         | 425          | rVB      | 891958         | 940023        | 36.95%          | 3.119%        |
| 10        | 7.013       | 430           | 431         | 436          | rVB4     | 27692          | 48634         | 1.91%           | 0.161%        |
| 11        | 7.322       | 455           | 458         | 460          | rVV      | 889277         | 764249        | 30.04%          | 2.536%        |
| 12        | 7.413       | 464           | 466         | 470          | rVB3     | 24556          | 32311         | 1.27%           | 0.107%        |
| 13        | 7.790       | 495           | 499         | 502          | rBV3     | 19254          | 33259         | 1.31%           | 0.110%        |
| 14        | 8.042       | 519           | 521         | 524          | rBV      | 1556114        | 1603151       | 63.02%          | 5.320%        |
| 15        | 8.087       | 524           | 525         | 529          | rVB2     | 21864          | 32931         | 1.29%           | 0.109%        |
| 16        | 8.327       | 543           | 546         | 548          | rBV      | 61493          | 75869         | 2.98%           | 0.252%        |
| 17        | 8.396       | 550           | 552         | 556          | rVV2     | 17606          | 32096         | 1.26%           | 0.106%        |
| 18        | 8.464       | 556           | 558         | 566          | rVB2     | 17477          | 46897         | 1.84%           | 0.156%        |
| 19        | 8.704       | 576           | 579         | 581          | rBV3     | 22624          | 32186         | 1.27%           | 0.107%        |
| 20        | 8.750       | 581           | 583         | 587          | rVV2     | 34578          | 53979         | 2.12%           | 0.179%        |
| 21        | 8.819       | 587           | 589         | 591          | rVV      | 33072          | 49313         | 1.94%           | 0.164%        |
| 22        | 9.116       | 613           | 615         | 618          | rBV      | 991627         | 1194220       | 46.95%          | 3.963%        |
| 23        | 9.207       | 618           | 623         | 627          | rVB5     | 15698          | 44958         | 1.77%           | 0.149%        |
| 24        | 9.276       | 627           | 629         | 631          | rVB      | 23787          | 26195         | 1.03%           | 0.087%        |
| 25        | 9.459       | 642           | 645         | 646          | rVV      | 25588          | 26743         | 1.05%           | 0.089%        |
| 26        | 9.516       | 648           | 650         | 653          | rVV      | 104936         | 115555        | 4.54%           | 0.383%        |
| 27        | 9.653       | 660           | 662         | 665          | rBV      | 136362         | 133640        | 5.25%           | 0.443%        |
| 28        | 9.802       | 672           | 675         | 676          | rBV      | 1160471        | 1519662       | 59.74%          | 5.042%        |
| 29        | 9.825       | 676           | 677         | 679          | rVB      | 63891          | 57447         | 2.26%           | 0.191%        |
| 30        | 9.996       | 690           | 692         | 695          | rBV      | 43267          | 57430         | 2.26%           | 0.191%        |
| 31        | 10.122      | 700           | 703         | 706          | rVB5     | 13545          | 29229         | 1.15%           | 0.097%        |
| 32        | 10.236      | 711           | 713         | 715          | rVB2     | 32061          | 42323         | 1.66%           | 0.140%        |
| 33        | 10.316      | 718           | 720         | 721          | rBV      | 31646          | 27471         | 1.08%           | 0.091%        |
| 34        | 10.339      | 721           | 722         | 725          | rVB      | 83613          | 78726         | 3.09%           | 0.261%        |

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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-BF121716.M  
 Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

|    |        |     |     |     |      |         |         |        |        |
|----|--------|-----|-----|-----|------|---------|---------|--------|--------|
| 35 | 10.453 | 729 | 732 | 735 | rBV4 | 20387   | 42790   | 1.68%  | 0.142% |
| 36 | 10.499 | 735 | 736 | 738 | rBV  | 28544   | 26910   | 1.06%  | 0.089% |
| 37 | 10.579 | 741 | 743 | 745 | rBV  | 580369  | 590078  | 23.20% | 1.958% |
| 38 | 10.705 | 752 | 754 | 758 | rVB  | 69224   | 86712   | 3.41%  | 0.288% |
| 39 | 10.796 | 760 | 762 | 764 | rBV2 | 22486   | 25862   | 1.02%  | 0.086% |
| 40 | 10.888 | 767 | 770 | 774 | rBV4 | 21838   | 64413   | 2.53%  | 0.214% |
| 41 | 11.036 | 779 | 783 | 786 | rBV6 | 16768   | 39985   | 1.57%  | 0.133% |
| 42 | 11.082 | 786 | 787 | 789 | rVB  | 78660   | 73505   | 2.89%  | 0.244% |
| 43 | 11.173 | 789 | 795 | 798 | rVB3 | 54521   | 130012  | 5.11%  | 0.431% |
| 44 | 11.276 | 802 | 804 | 805 | rVV  | 1526541 | 1329030 | 52.25% | 4.410% |
| 45 | 11.356 | 808 | 811 | 812 | rVV  | 156400  | 213292  | 8.39%  | 0.708% |
| 46 | 11.390 | 812 | 814 | 815 | rVV2 | 30381   | 34530   | 1.36%  | 0.115% |
| 47 | 11.516 | 821 | 825 | 828 | rBV2 | 82006   | 169824  | 6.68%  | 0.564% |
| 48 | 11.573 | 828 | 830 | 832 | rVV2 | 30861   | 44749   | 1.76%  | 0.148% |
| 49 | 11.608 | 832 | 833 | 835 | rVB2 | 28737   | 30338   | 1.19%  | 0.101% |
| 50 | 11.676 | 836 | 839 | 842 | rVB5 | 24340   | 40629   | 1.60%  | 0.135% |
| 51 | 11.779 | 845 | 848 | 849 | rBV  | 113515  | 124765  | 4.90%  | 0.414% |
| 52 | 11.802 | 849 | 850 | 853 | rBV  | 98363   | 131507  | 5.17%  | 0.436% |
| 53 | 11.848 | 853 | 854 | 856 | rBV  | 63132   | 84058   | 3.30%  | 0.279% |
| 54 | 11.893 | 856 | 858 | 862 | rVB  | 127230  | 262634  | 10.32% | 0.871% |
| 55 | 11.962 | 862 | 864 | 865 | rBV  | 43234   | 63879   | 2.51%  | 0.212% |
| 56 | 11.996 | 865 | 867 | 869 | rBV2 | 76433   | 130633  | 5.14%  | 0.433% |
| 57 | 12.076 | 872 | 874 | 875 | rBV  | 56788   | 70183   | 2.76%  | 0.233% |
| 58 | 12.225 | 885 | 887 | 888 | rVB  | 30385   | 28023   | 1.10%  | 0.093% |
| 59 | 12.328 | 894 | 896 | 897 | rBV  | 121831  | 139235  | 5.47%  | 0.462% |
| 60 | 12.362 | 897 | 899 | 902 | rVV4 | 74718   | 150458  | 5.91%  | 0.499% |
| 61 | 12.408 | 902 | 903 | 905 | rVB  | 82287   | 78073   | 3.07%  | 0.259% |
| 62 | 12.488 | 908 | 910 | 912 | rBV  | 1228503 | 1098050 | 43.17% | 3.644% |
| 63 | 12.545 | 912 | 915 | 916 | rBV2 | 24228   | 51755   | 2.03%  | 0.172% |
| 64 | 12.579 | 916 | 918 | 920 | rBV  | 61165   | 51297   | 2.02%  | 0.170% |
| 65 | 12.636 | 920 | 923 | 926 | rBV4 | 33068   | 95428   | 3.75%  | 0.317% |
| 66 | 12.693 | 926 | 928 | 931 | rBV2 | 1446528 | 2127332 | 83.63% | 7.059% |
| 67 | 12.773 | 931 | 935 | 937 | rVB3 | 203575  | 325019  | 12.78% | 1.078% |
| 68 | 12.831 | 938 | 940 | 941 | rBV  | 81137   | 83662   | 3.29%  | 0.278% |
| 69 | 12.865 | 941 | 943 | 945 | rBV  | 689024  | 859487  | 33.79% | 2.852% |
| 70 | 12.933 | 947 | 949 | 950 | rBV2 | 73945   | 91811   | 3.61%  | 0.305% |
| 71 | 13.036 | 956 | 958 | 960 | rVB  | 117746  | 167529  | 6.59%  | 0.556% |

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Misc :  
ALS Vial : 25 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
TP12-2.5-3FT

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-BF121716.M  
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

|    |        |      |      |      |      |         |         |         |        |
|----|--------|------|------|------|------|---------|---------|---------|--------|
| 72 | 13.105 | 962  | 964  | 966  | rBV  | 133181  | 136421  | 5.36%   | 0.453% |
| 73 | 13.139 | 966  | 967  | 971  | rVB2 | 90162   | 126660  | 4.98%   | 0.420% |
| 74 | 13.231 | 974  | 975  | 977  | rBV  | 175901  | 233324  | 9.17%   | 0.774% |
| 75 | 13.345 | 983  | 985  | 988  | rBV2 | 110149  | 161082  | 6.33%   | 0.534% |
| 76 | 13.402 | 988  | 990  | 992  | rBV  | 817755  | 855106  | 33.62%  | 2.837% |
| 77 | 13.448 | 992  | 994  | 995  | rBV  | 108648  | 155808  | 6.13%   | 0.517% |
| 78 | 13.551 | 1001 | 1003 | 1005 | rBV  | 104217  | 147909  | 5.81%   | 0.491% |
| 79 | 13.654 | 1010 | 1012 | 1014 | rBV2 | 108111  | 177484  | 6.98%   | 0.589% |
| 80 | 13.768 | 1019 | 1022 | 1025 | rVV2 | 171922  | 330323  | 12.99%  | 1.096% |
| 81 | 13.905 | 1031 | 1034 | 1040 | rBV2 | 1285808 | 2543704 | 100.00% | 8.440% |
| 82 | 14.088 | 1048 | 1050 | 1052 | rVB2 | 206260  | 205974  | 8.10%   | 0.683% |
| 83 | 14.396 | 1075 | 1077 | 1078 | rBV2 | 194702  | 236000  | 9.28%   | 0.783% |
| 84 | 14.922 | 1120 | 1123 | 1126 | rBV  | 491359  | 901101  | 35.42%  | 2.990% |
| 85 | 15.197 | 1145 | 1147 | 1150 | rVB  | 313329  | 469314  | 18.45%  | 1.557% |
| 86 | 15.254 | 1150 | 1152 | 1155 | rBV  | 339891  | 527892  | 20.75%  | 1.752% |
| 87 | 15.322 | 1155 | 1158 | 1159 | rBV  | 615452  | 919449  | 36.15%  | 3.051% |

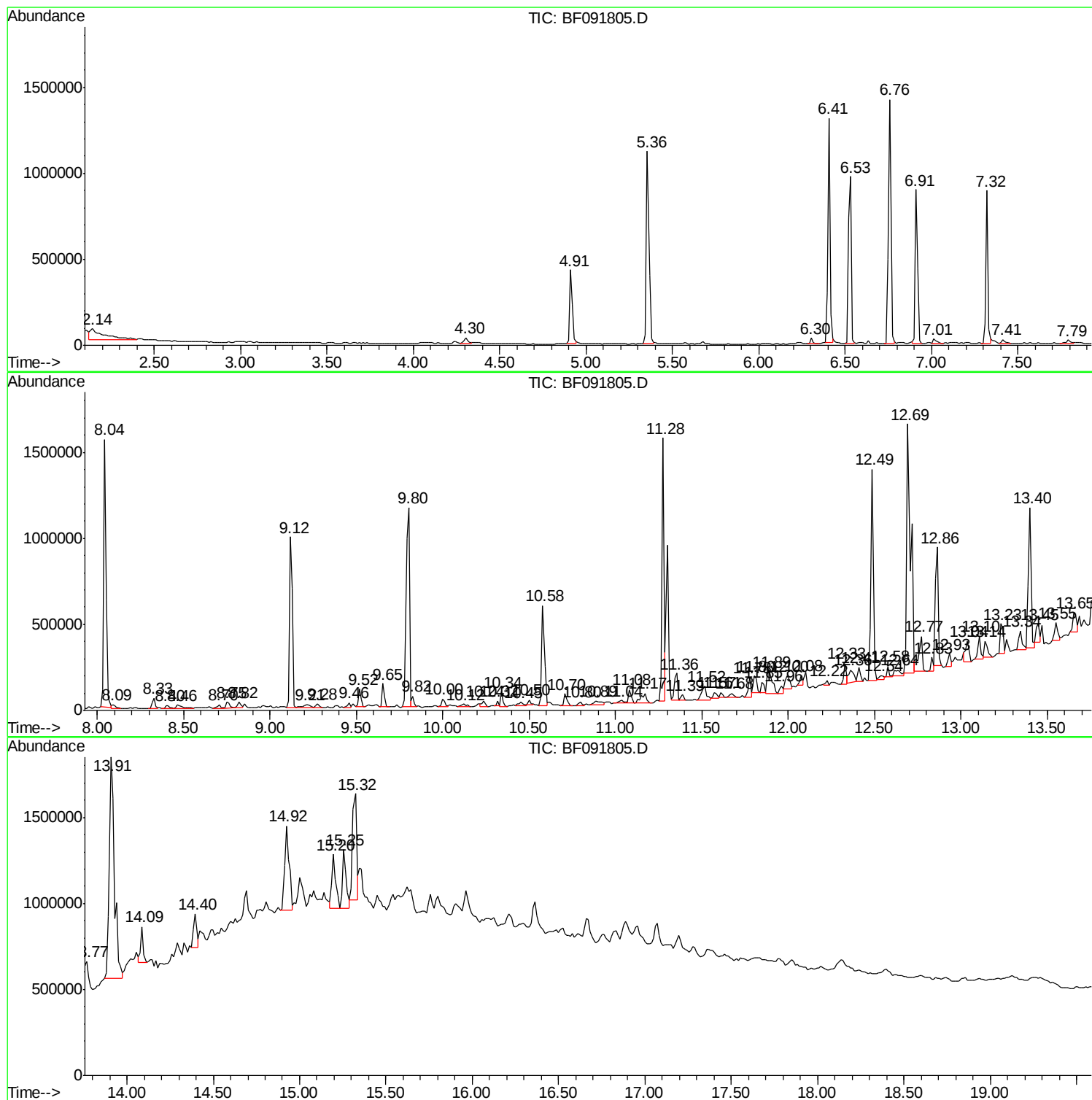
Sum of corrected areas: 30137177

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ALS Vial : 25 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampled :  
TP12-2.5-3FT

Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF121716.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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



Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF121916\  
Data File : BF091805.D  
Acq On : 20 Dec 2016 6:02  
Operator : UM/SJ  
Sample : H6099-14 5X  
Misc :  
ALS Vial : 25 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
TP12-2.5-3FT

Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF121716.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

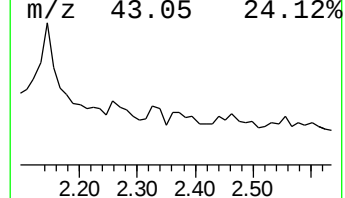
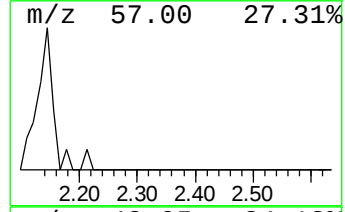
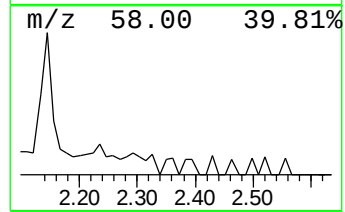
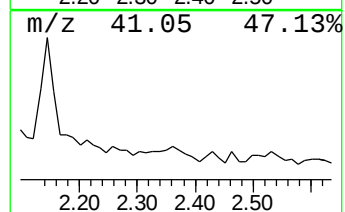
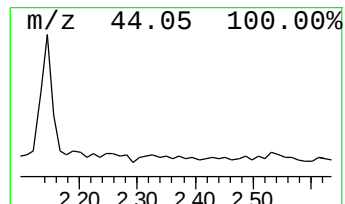
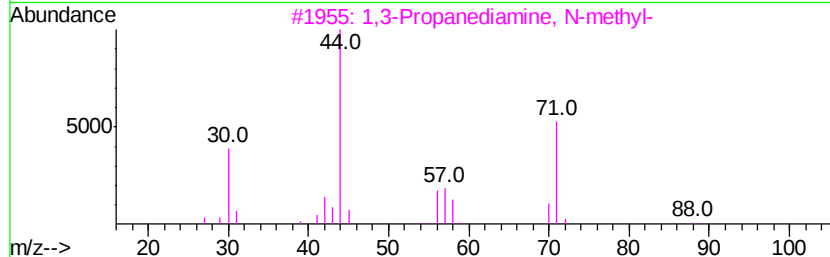
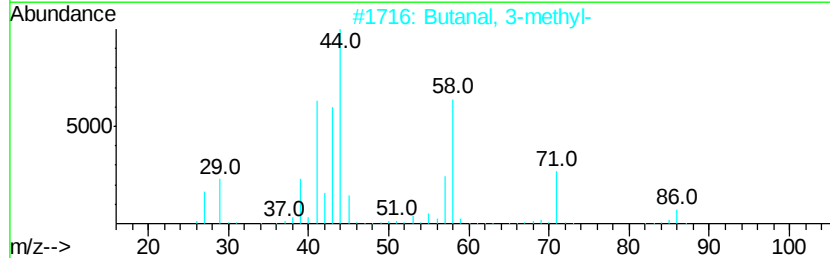
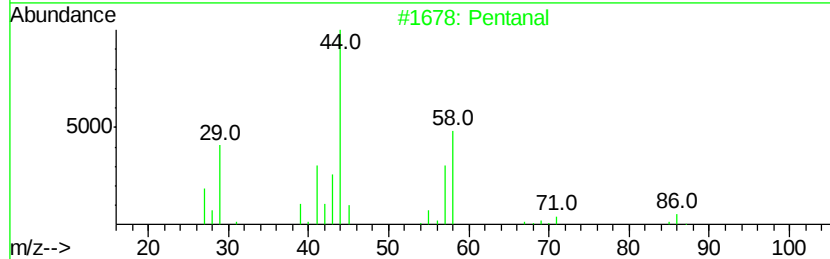
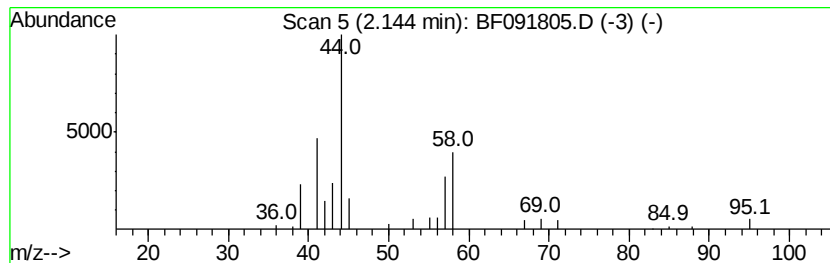
TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 1 Pentanal Concentration Rank 6

| R.T. | EstConc | Area   | Relative to ISTD       | R.T. |
|------|---------|--------|------------------------|------|
| 2.14 | 4.67 ng | 315682 | 1,4-Dichlorobenzene-d4 | 6.76 |

| Hit# | of | Tentative ID                  | MW  | MolForm | CAS#        | Qual |
|------|----|-------------------------------|-----|---------|-------------|------|
| 1    | 5  | Pentanal                      | 86  | C5H10O  | 000110-62-3 | 78   |
| 2    |    | Butanal, 3-methyl-            | 86  | C5H10O  | 000590-86-3 | 56   |
| 3    |    | 1,3-Propanediamine, N-methyl- | 88  | C4H12N2 | 006291-84-5 | 33   |
| 4    |    | Tartaric acid                 | 150 | C4H6O6  | 000133-37-9 | 9    |
| 5    |    | Cyclopropyl carbinol          | 72  | C4H8O   | 002516-33-8 | 9    |



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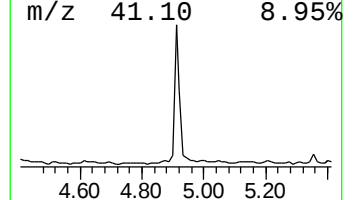
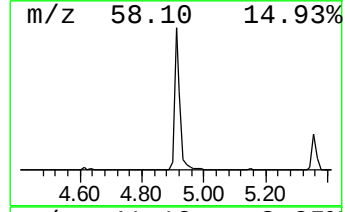
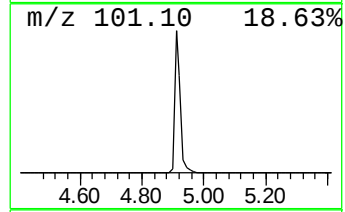
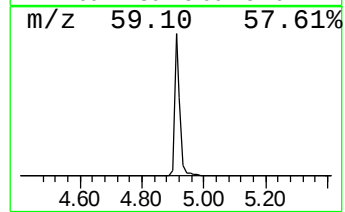
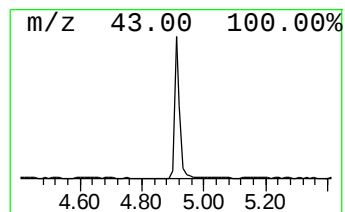
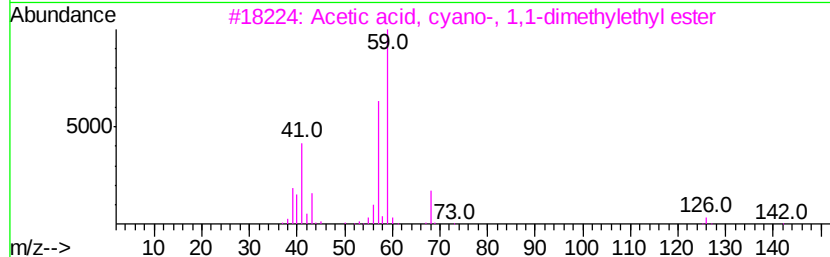
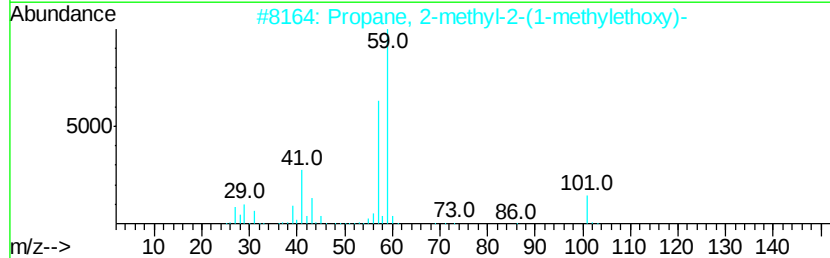
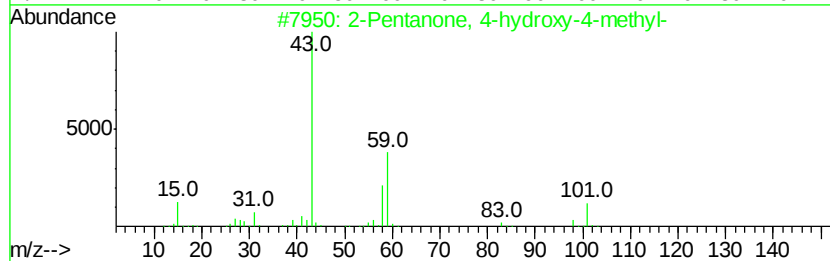
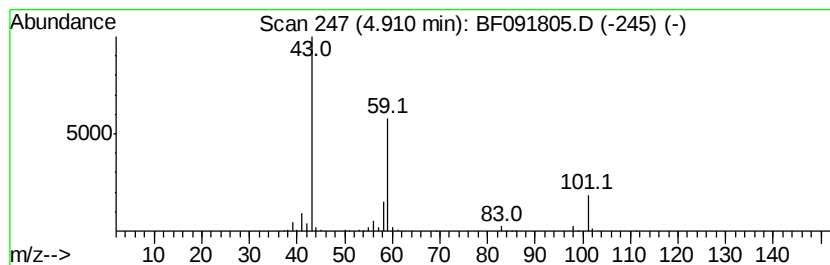
Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF121716.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

\*\*\*\*\*  
Peak Number 2 2-Pentanone, 4-hydroxy-4-me... Concentration Rank 4

| R.T. | EstConc | Area   | Relative to ISTD       | R.T. |
|------|---------|--------|------------------------|------|
| 4.91 | 7.34 ng | 495960 | 1,4-Dichlorobenzene-d4 | 6.76 |

| 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-dimethyl... | 141 | C7H11NO2 | 001116-98-9 | 25   |
| 4    |    |   | 1-Propen-2-ol, acetate               | 100 | C5H8O2   | 000108-22-5 | 10   |
| 5    |    |   | 2,3-Butanedione, monooxime           | 101 | C4H7NO2  | 000057-71-6 | 9    |



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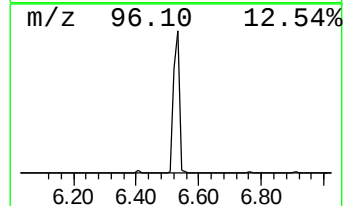
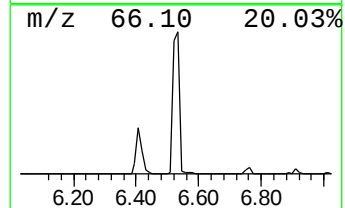
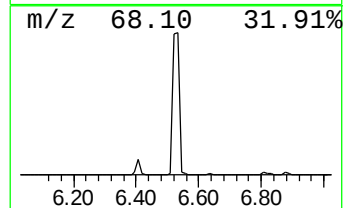
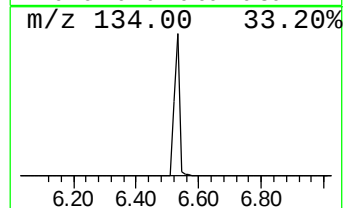
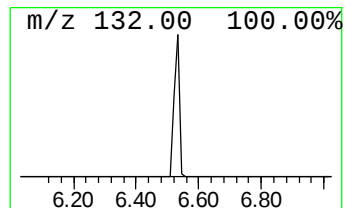
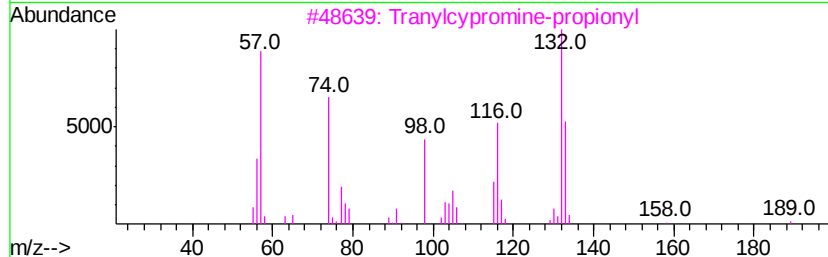
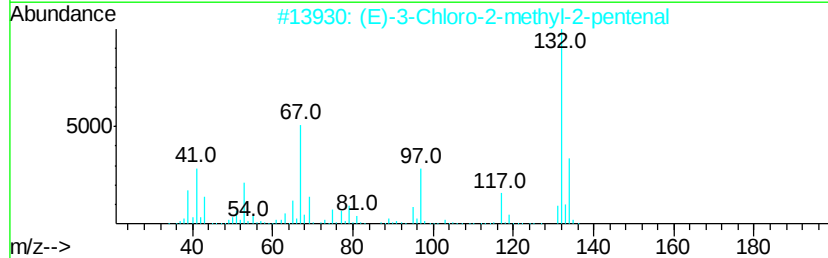
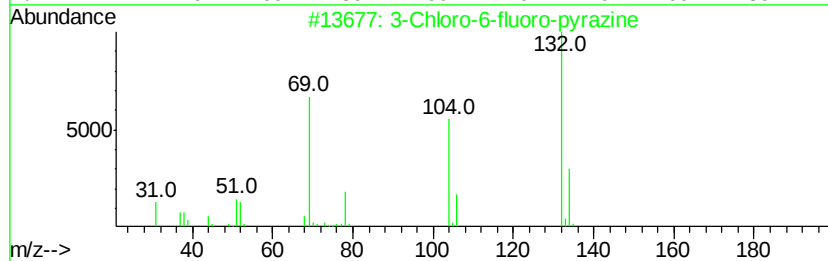
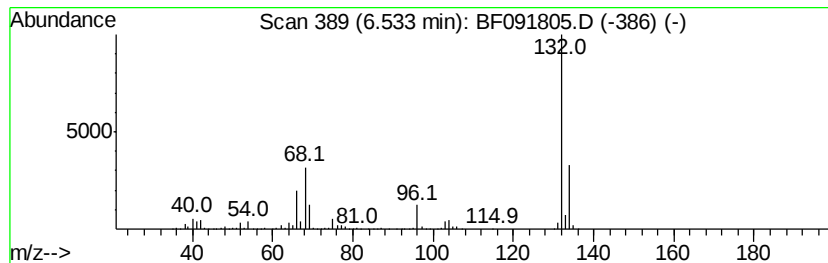
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

\*\*\*\*\*  
Peak Number 3 unknown6.53 Concentration Rank 1

| R.T. | EstConc  | Area    | Relative to ISTD       | R.T. |
|------|----------|---------|------------------------|------|
| 6.53 | 17.66 ng | 1193660 | 1,4-Dichlorobenzene-d4 | 6.76 |

| Hit# | of | Tentative ID                     | MW  | MolForm   | CAS#         | Qual |
|------|----|----------------------------------|-----|-----------|--------------|------|
| 1    | 5  | 3-Chloro-6-fluoro-pyrazine       | 132 | C4H2ClFN2 | 1000146-10-7 | 25   |
| 2    |    | (E)-3-Chloro-2-methyl-2-pentenal | 132 | C6H9ClO   | 031357-76-3  | 17   |
| 3    |    | Tranvlcypropine-propionyl        | 189 | C12H15NO  | 1000123-86-3 | 12   |
| 4    |    | 4-Chloro-6-fluoro-pyrimidine     | 132 | C4H2ClFN2 | 051422-01-6  | 9    |
| 5    |    | 4-Methylpyrrolo[1,2-a]pyrazine   | 132 | C8H8N2    | 064608-60-2  | 9    |



Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF121916\  
Data File : BF091805.D  
Acq On : 20 Dec 2016 6:02  
Operator : UM/SJ  
Sample : H6099-14 5X  
Misc :  
ALS Vial : 25 Sample Multiplier: 1

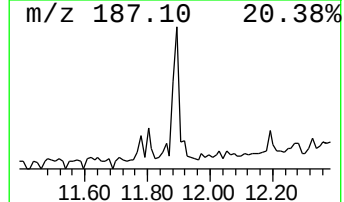
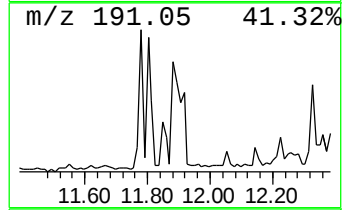
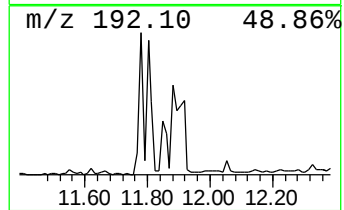
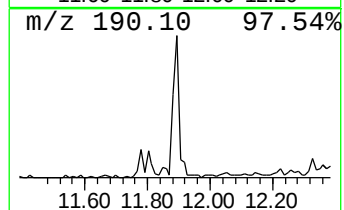
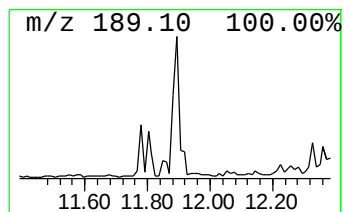
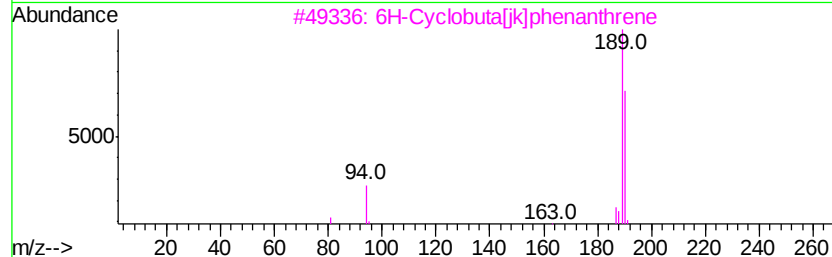
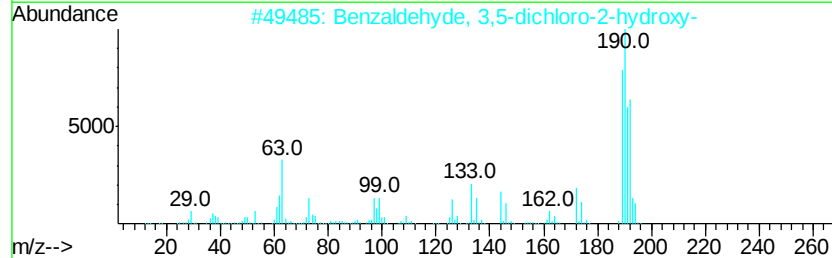
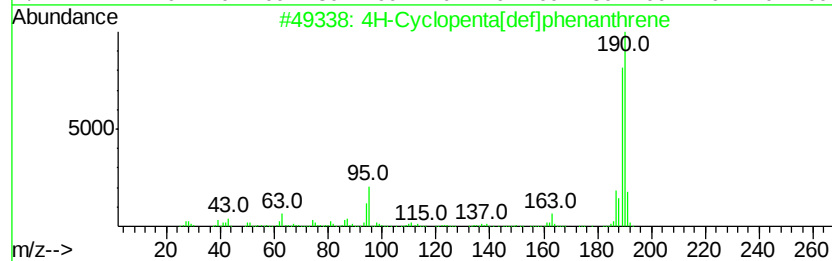
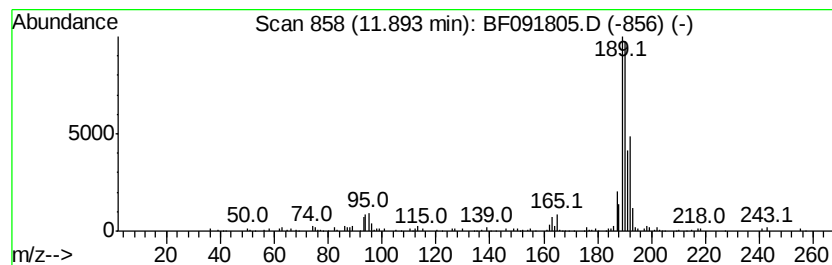
Instrument :  
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ClientSampleId :  
TP12-2.5-3FT

Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF121716.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

\*\*\*\*\*  
Peak Number 6 4H-Cyclopenta[def]phenanthrene Concentration Rank 7

| R.T.      | EstConc                             | Area   | Relative to ISTD | R.T.        |      |
|-----------|-------------------------------------|--------|------------------|-------------|------|
| 11.89     | 3.95 ng                             | 262634 | Phenanthrene-d10 | 11.28       |      |
| Hit# of 5 | Tentative ID                        | MW     | MolForm          | CAS#        | Qual |
| 1         | 4H-Cyclopenta[def]phenanthrene      | 190    | C15H10           | 000203-64-5 | 64   |
| 2         | Benzaldehyde, 3,5-dichloro-2-hyd... | 190    | C7H4Cl2O2        | 000090-60-8 | 53   |
| 3         | 6H-Cyclobuta[ikl]phenanthrene       | 190    | C15H10           | 083469-43-6 | 50   |
| 4         | 3H-Indazole-3-carbonitrile, 3-(4... | 253    | C14H8ClN3        | 056630-97-8 | 20   |
| 5         | 2,3,5,6-Tetramethylterephthalald... | 190    | C12H14O2         | 007072-01-7 | 16   |



Data Path : Z:\HPCHEM1\BNA F\DATA\BF121916\  
Data File : BF091805.D  
Acq On : 20 Dec 2016 6:02  
Operator : UM/SJ  
Sample : H6099-14 5X  
Misc :  
ALS Vial : 25 Sample Multiplier: 1

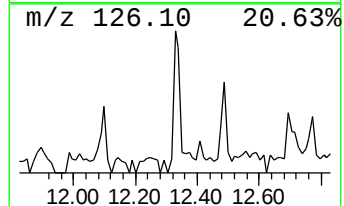
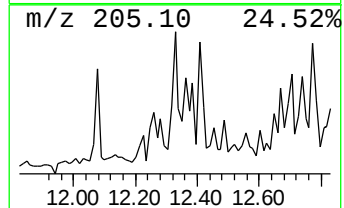
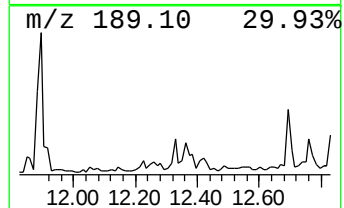
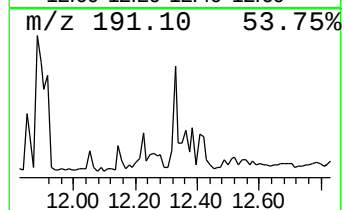
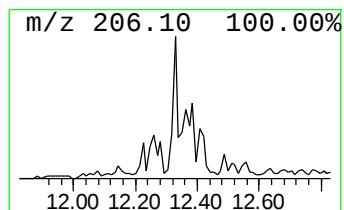
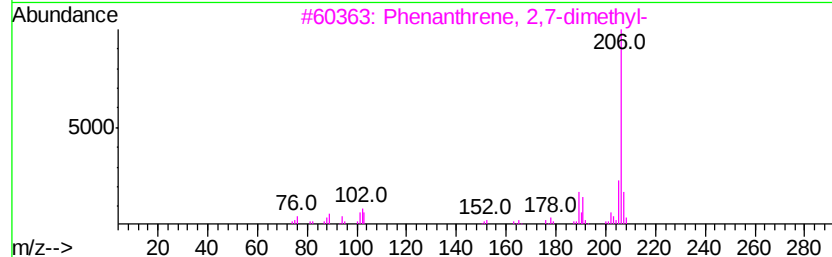
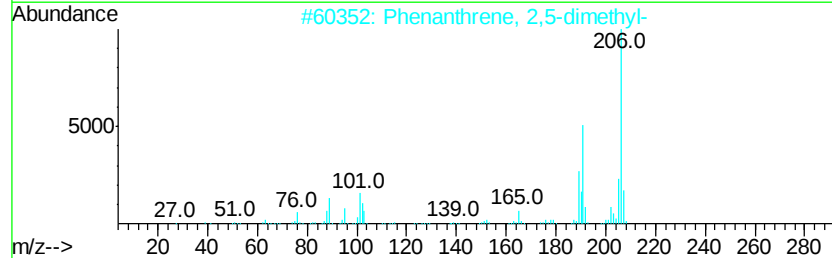
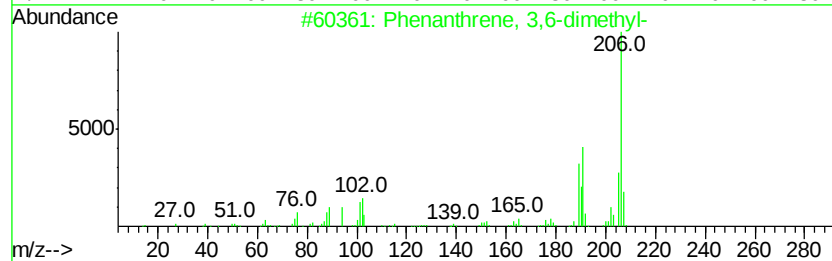
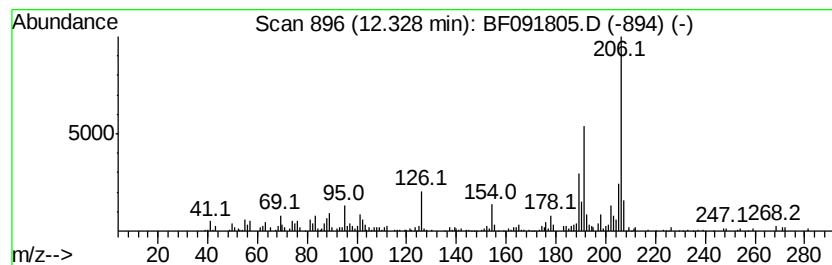
Instrument :  
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ClientSampleId :  
TP12-2.5-3FT

Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF121716.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

\*\*\*\*\*  
Peak Number 7 Phenanthrene, 3,6-dimethyl- Concentration Rank 12

| R.T.      | EstConc                     | Area   | Relative to ISTD |             | R.T.  |
|-----------|-----------------------------|--------|------------------|-------------|-------|
| 12.33     | 2.10 ng                     | 139235 | Phenanthrene-d10 |             | 11.28 |
| Hit# of 5 | Tentative ID                | MW     | MolForm          | CAS#        | Qual  |
| 1         | Phenanthrene, 3,6-dimethyl- | 206    | C16H14           | 001576-67-6 | 93    |
| 2         | Phenanthrene, 2,5-dimethyl- | 206    | C16H14           | 003674-66-6 | 91    |
| 3         | Phenanthrene, 2,7-dimethyl- | 206    | C16H14           | 001576-69-8 | 89    |
| 4         | Phenanthrene, 4,5-dimethyl- | 206    | C16H14           | 003674-69-9 | 86    |
| 5         | di-p-Tolylacetylene         | 206    | C16H14           | 002789-88-0 | 81    |



Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF121916\  
Data File : BF091805.D  
Acq On : 20 Dec 2016 6:02  
Operator : UM/SJ  
Sample : H6099-14 5X  
Misc :  
ALS Vial : 25 Sample Multiplier: 1

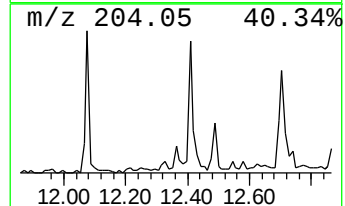
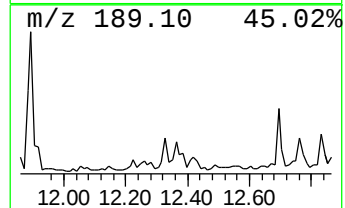
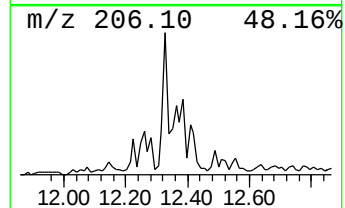
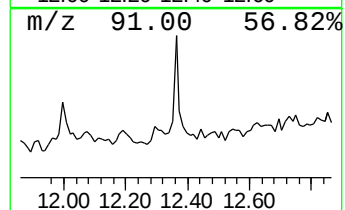
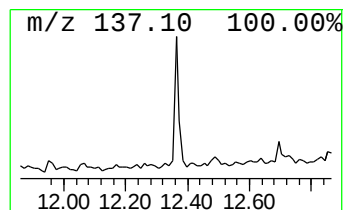
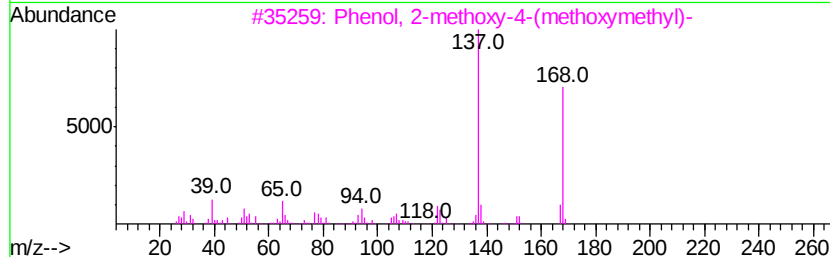
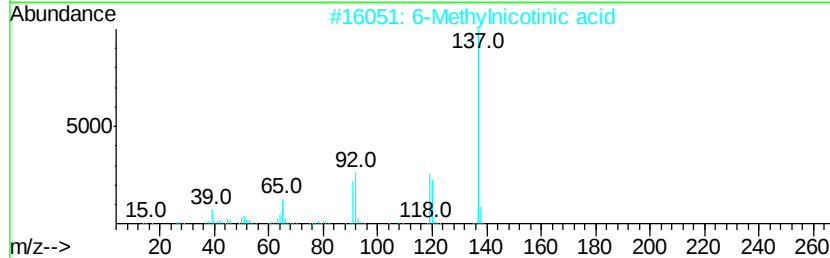
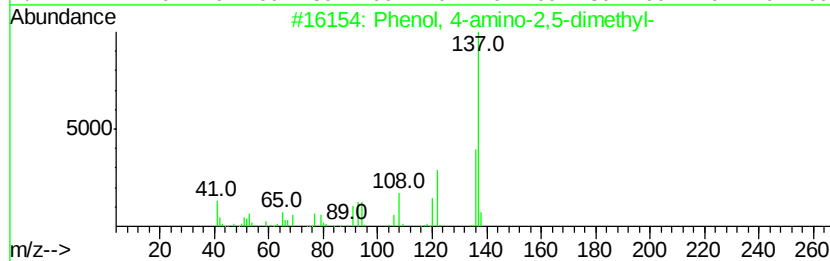
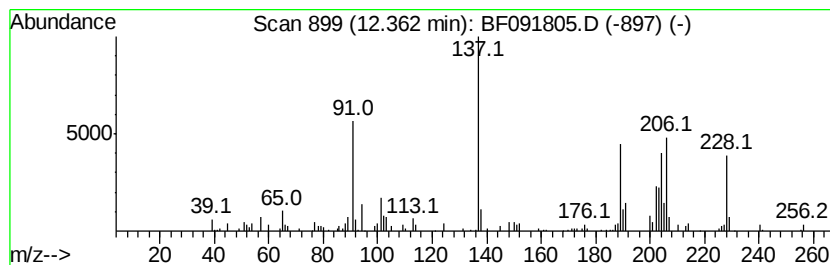
Instrument :  
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ClientSampleId :  
TP12-2.5-3FT

Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF121716.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

\*\*\*\*\*  
Peak Number 8 unknown12.36 Concentration Rank 11

| R.T.    | EstConc | Area                                | Relative to ISTD | R.T.       |              |      |
|---------|---------|-------------------------------------|------------------|------------|--------------|------|
| 12.36   | 2.26 ng | 150458                              | Phenanthrene-d10 | 11.28      |              |      |
| Hit# of | 5       | Tentative ID                        | MW               | MolForm    | CAS#         | Qual |
| 1       |         | Phenol, 4-amino-2,5-dimethyl-       | 137              | C8H11NO    | 003096-71-7  | 10   |
| 2       |         | 6-Methylnicotinic acid              | 137              | C7H7NO2    | 003222-47-7  | 10   |
| 3       |         | Phenol, 2-methoxy-4-(methoxymeth... | 168              | C9H12O3    | 005533-03-9  | 10   |
| 4       |         | 3-Diazo-4-pyrazolecarboxamide       | 137              | C4H3N5O    | 1000257-15-5 | 10   |
| 5       |         | Ethanone, 1-(2,4-dihydroxyphenyl... | 251              | C10H9N3O3S | 274265-97-3  | 10   |



Data Path : Z:\HPCHEM1\BNA F\DATA\BF121916\  
Data File : BF091805.D  
Acq On : 20 Dec 2016 6:02  
Operator : UM/SJ  
Sample : H6099-14 5X  
Misc :  
ALS Vial : 25 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
TP12-2.5-3FT

Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF121716.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

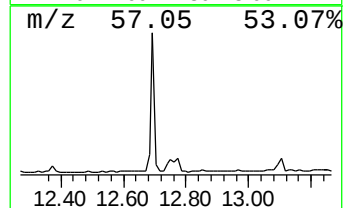
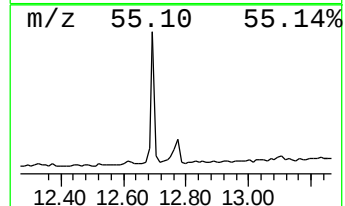
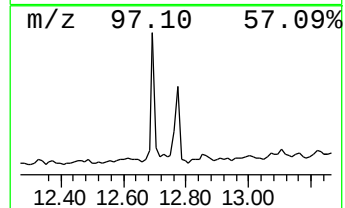
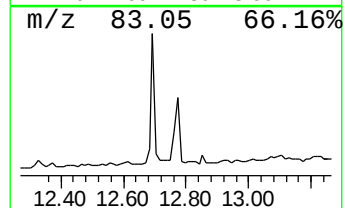
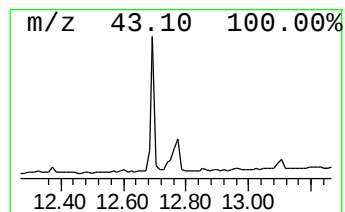
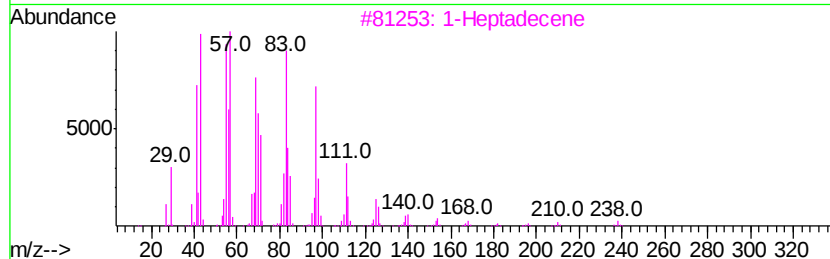
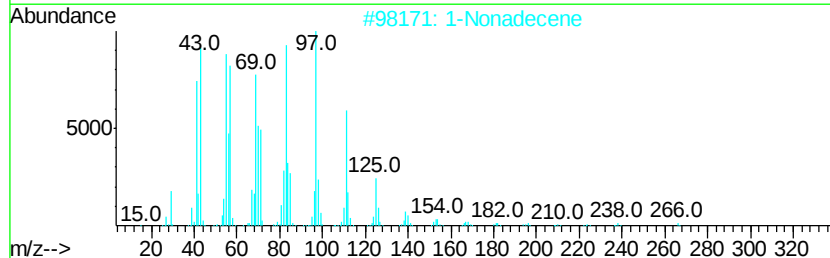
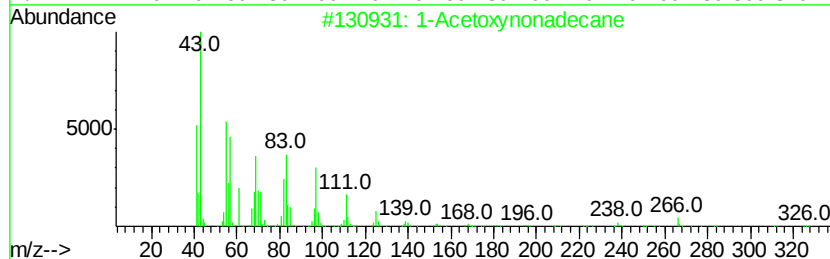
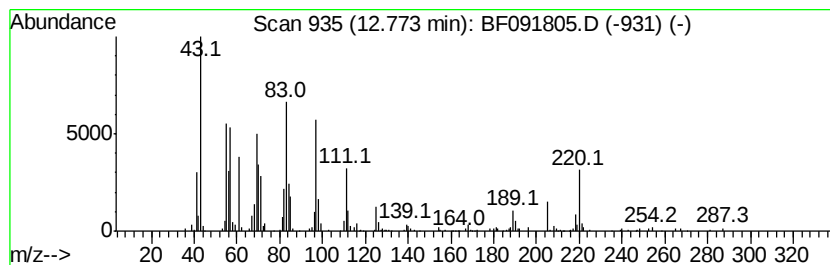
TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 9 1-Acetoxy-nonadecane Concentration Rank 10

| R.T.  | EstConc | Area   | Relative to ISTD | R.T.  |
|-------|---------|--------|------------------|-------|
| 12.77 | 2.56 ng | 325019 | Chrysene-d12     | 13.92 |

| Hit# of | 5                    | Tentative ID | MW  | MolForm  | CAS#         | Qual |
|---------|----------------------|--------------|-----|----------|--------------|------|
| 1       | 1-Acetoxy-nonadecane |              | 326 | C21H42O2 | 001577-43-1  | 72   |
| 2       | 1-Nonadecene         |              | 266 | C19H38   | 018435-45-5  | 70   |
| 3       | 1-Heptadecene        |              | 238 | C17H34   | 006765-39-5  | 70   |
| 4       | 9-Eicosene, (E)-     |              | 280 | C20H40   | 074685-29-3  | 62   |
| 5       | E-15-Heptadecenal    |              | 252 | C17H32O  | 1000130-97-9 | 62   |



Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF121916\  
Data File : BF091805.D  
Acq On : 20 Dec 2016 6:02  
Operator : UM/SJ  
Sample : H6099-14 5X  
Misc :  
ALS Vial : 25 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
TP12-2.5-3FT

Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF121716.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

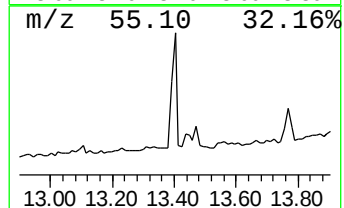
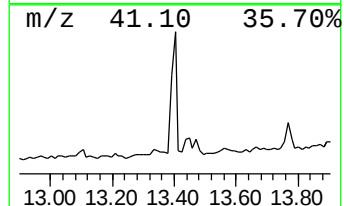
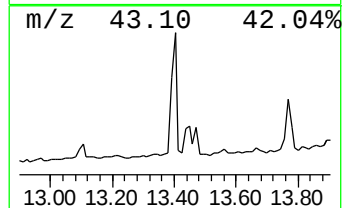
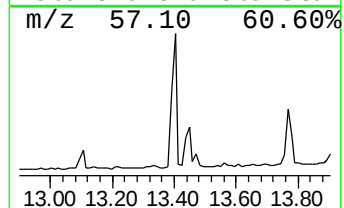
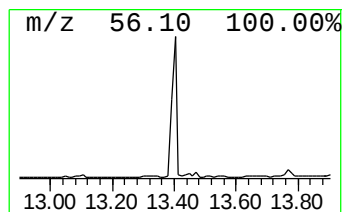
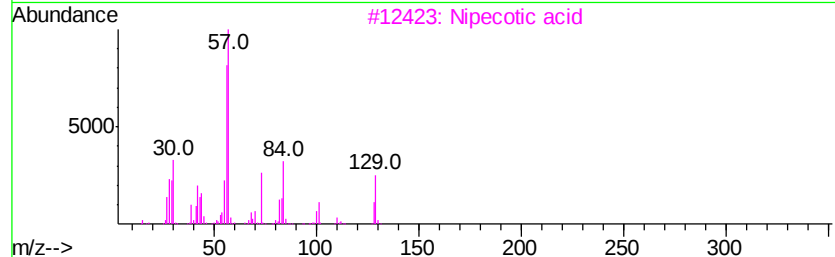
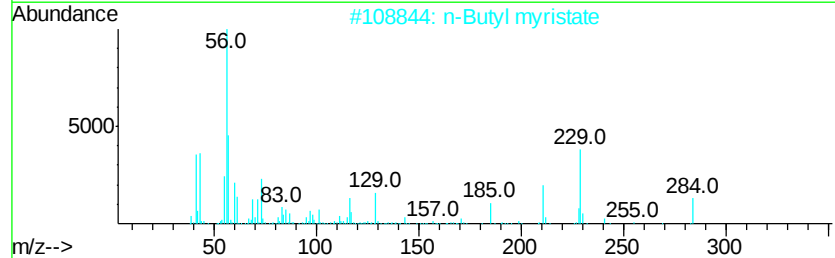
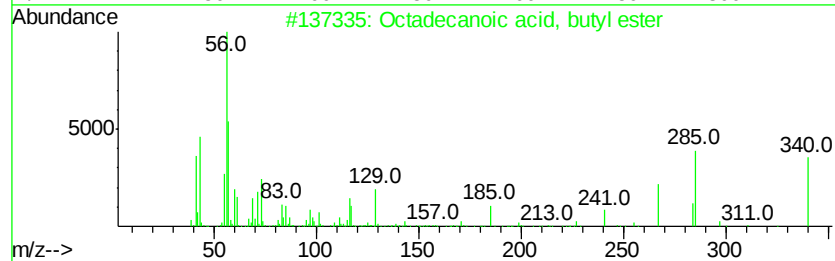
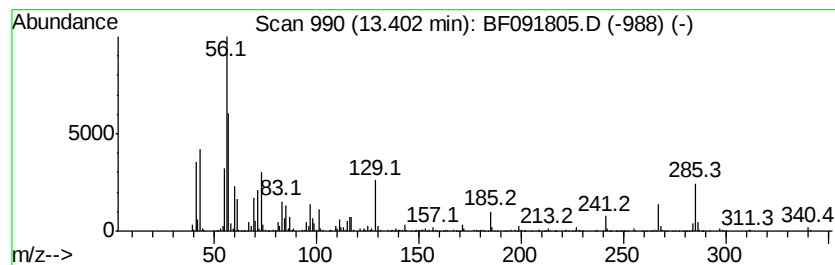
TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 10 Octadecanoic acid, butyl ester Concentration Rank 5

| R.T.  | EstConc | Area   | Relative to ISTD | R.T.  |
|-------|---------|--------|------------------|-------|
| 13.40 | 6.72 ng | 855106 | Chrysene-d12     | 13.92 |

| Hit# | of | Tentative ID                         | MW  | MolForm  | CAS#        | Qual |
|------|----|--------------------------------------|-----|----------|-------------|------|
| 1    | 5  | Octadecanoic acid, butyl ester       | 340 | C22H44O2 | 000123-95-5 | 94   |
| 2    |    | n-Butyl myristate                    | 284 | C18H36O2 | 000110-36-1 | 64   |
| 3    |    | Nipecotic acid                       | 129 | C6H11NO2 | 000498-95-3 | 50   |
| 4    |    | Octadecanoic acid, 2-methylpropyl... | 340 | C22H44O2 | 000646-13-9 | 35   |
| 5    |    | 1-Hexene, 2,5-dimethyl-              | 112 | C8H16    | 006975-92-4 | 27   |



Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF121916\  
Data File : BF091805.D  
Acq On : 20 Dec 2016 6:02  
Operator : UM/SJ  
Sample : H6099-14 5X  
Misc :  
ALS Vial : 25 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
TP12-2.5-3FT

Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF121716.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

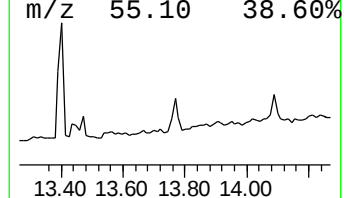
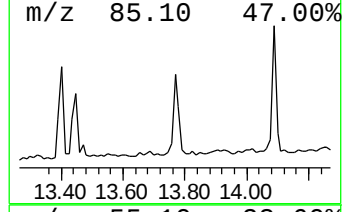
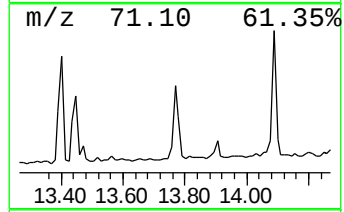
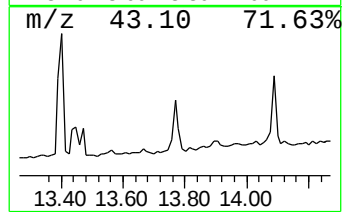
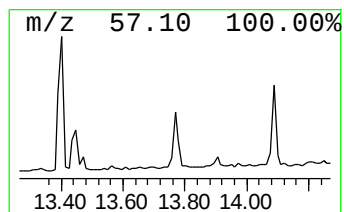
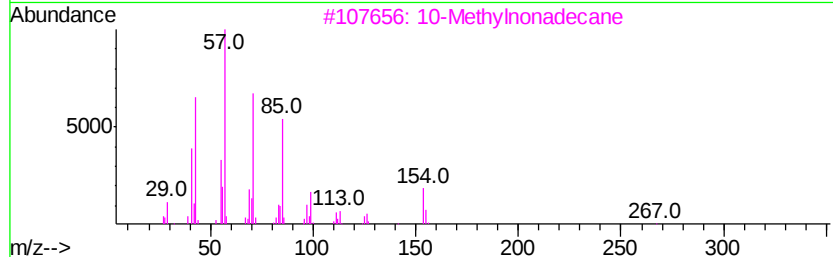
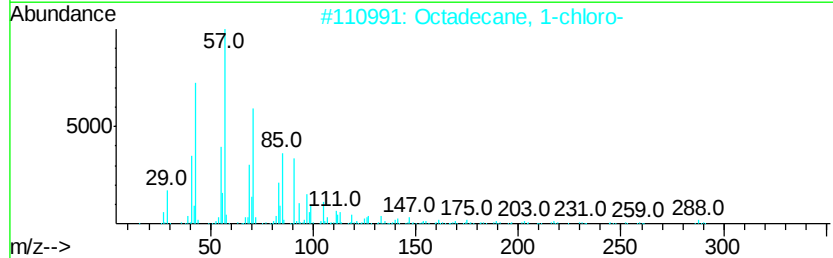
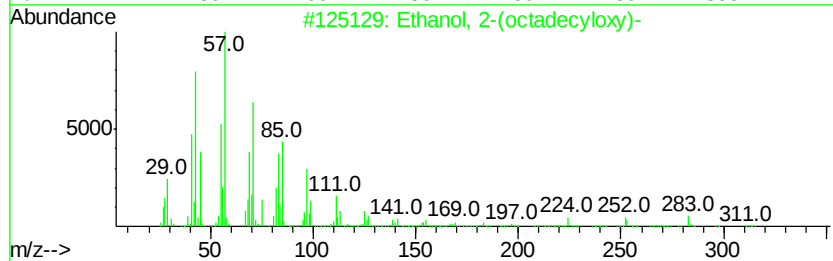
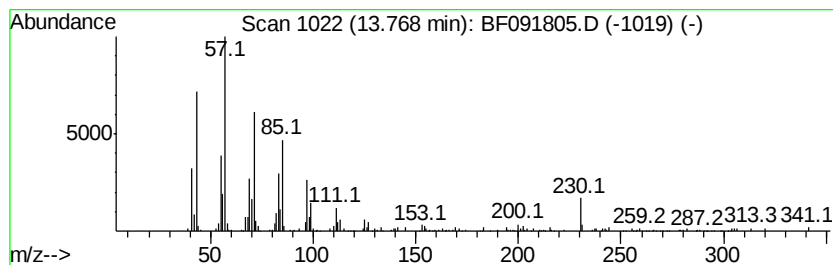
TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 11 Ethanol, 2-(octadecyloxy)- Concentration Rank 8

| R.T.  | EstConc | Area   | Relative to ISTD | R.T.  |
|-------|---------|--------|------------------|-------|
| 13.77 | 2.60 ng | 330323 | Chrysene-d12     | 13.92 |

| Hit# | of | Tentative ID               | MW  | MolForm  | CAS#        | Qual |
|------|----|----------------------------|-----|----------|-------------|------|
| 1    | 5  | Ethanol, 2-(octadecyloxy)- | 314 | C20H42O2 | 002136-72-3 | 86   |
| 2    |    | Octadecane, 1-chloro-      | 288 | C18H37Cl | 003386-33-2 | 80   |
| 3    |    | 10-Methylnonadecane        | 282 | C20H42   | 056862-62-5 | 58   |
| 4    |    | Eicosane                   | 282 | C20H42   | 000112-95-8 | 53   |
| 5    |    | Tetradecane                | 198 | C14H30   | 000629-59-4 | 52   |



Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF121916\  
Data File : BF091805.D  
Acq On : 20 Dec 2016 6:02  
Operator : UM/SJ  
Sample : H6099-14 5X  
Misc :  
ALS Vial : 25 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
TP12-2.5-3FT

Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF121716.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 |
| Pentanal             | 2.14  | 4.7 ng  |       | 315682   | 1                     | 6.76  | 1352070 | 20.0 |
| 2-Pentanone, 4-hy... | 4.91  | 7.3 ng  |       | 495960   | 1                     | 6.76  | 1352070 | 20.0 |
| unknown6.53          | 6.53  | 17.7 ng |       | 1193660  | 1                     | 6.76  | 1352070 | 20.0 |
| 4H-Cyclopenta[def... | 11.89 | 4.0 ng  |       | 262634   | 4                     | 11.28 | 1329030 | 20.0 |
| Phenanthrene, 3,6... | 12.33 | 2.1 ng  |       | 139235   | 4                     | 11.28 | 1329030 | 20.0 |
| unknown12.36         | 12.36 | 2.3 ng  |       | 150458   | 4                     | 11.28 | 1329030 | 20.0 |
| 1-Acetoxynonadecane  | 12.77 | 2.6 ng  |       | 325019   | 5                     | 13.92 | 2543700 | 20.0 |
| Octadecanoic acid... | 13.40 | 6.7 ng  |       | 855106   | 5                     | 13.92 | 2543700 | 20.0 |
| Ethanol, 2-(octad... | 13.77 | 2.6 ng  |       | 330323   | 5                     | 13.92 | 2543700 | 20.0 |