

Data Path : Z:\HPCHEM1\BNA F\DATA\BF061017\  
 Data File : BF095860.D  
 Acq On : 10 Jun 2017 21:48  
 Operator : SJ/MA  
 Sample : I3615-01  
 Misc :  
 ALS Vial : 15 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 HA4-WCA

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-BF060517.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         | 4.569       | 504           | 507         | 530          | rBV      | 47924          | 143078        | 8.91%           | 0.835%        |
| 2         | 5.257       | 620           | 624         | 657          | rBV      | 681508         | 1383901       | 86.17%          | 8.078%        |
| 3         | 6.928       | 904           | 908         | 920          | rBV      | 860792         | 1352319       | 84.21%          | 7.893%        |
| 4         | 7.022       | 920           | 924         | 936          | rVB      | 1064192        | 1605947       | 100.00%         | 9.374%        |
| 5         | 7.369       | 979           | 983         | 994          | rBV      | 261405         | 354229        | 22.06%          | 2.068%        |
| 6         | 7.604       | 1018          | 1023        | 1039         | rBV      | 827650         | 1110112       | 69.13%          | 6.480%        |
| 7         | 8.228       | 1125          | 1129        | 1130         | rBV      | 15764          | 17023         | 1.06%           | 0.099%        |
| 8         | 8.251       | 1130          | 1133        | 1134         | rVV      | 27827          | 30932         | 1.93%           | 0.181%        |
| 9         | 8.281       | 1134          | 1138        | 1163         | rVB      | 568891         | 907073        | 56.48%          | 5.294%        |
| 10        | 8.633       | 1193          | 1198        | 1205         | rBV4     | 11993          | 16667         | 1.04%           | 0.097%        |
| 11        | 9.004       | 1257          | 1261        | 1270         | rBV2     | 12731          | 19103         | 1.19%           | 0.112%        |
| 12        | 9.398       | 1324          | 1328        | 1341         | rBV      | 362987         | 513952        | 32.00%          | 3.000%        |
| 13        | 9.498       | 1341          | 1345        | 1352         | rVB4     | 11893          | 21508         | 1.34%           | 0.126%        |
| 14        | 11.174      | 1625          | 1630        | 1645         | rVB      | 1101709        | 1426680       | 88.84%          | 8.327%        |
| 15        | 11.480      | 1678          | 1682        | 1691         | rVB2     | 9292           | 17784         | 1.11%           | 0.104%        |
| 16        | 11.586      | 1695          | 1700        | 1701         | rBV2     | 20439          | 24183         | 1.51%           | 0.141%        |
| 17        | 11.704      | 1714          | 1720        | 1726         | rBV      | 39645          | 60539         | 3.77%           | 0.353%        |
| 18        | 11.874      | 1744          | 1749        | 1761         | rVB      | 236028         | 332468        | 20.70%          | 1.941%        |
| 19        | 12.004      | 1767          | 1771        | 1777         | rBV3     | 17118          | 27897         | 1.74%           | 0.163%        |
| 20        | 12.221      | 1803          | 1808        | 1813         | rBV2     | 404909         | 526152        | 32.76%          | 3.071%        |
| 21        | 12.268      | 1813          | 1816        | 1824         | rVB2     | 56919          | 82794         | 5.16%           | 0.483%        |
| 22        | 12.574      | 1862          | 1868        | 1869         | rBV      | 17979          | 16592         | 1.03%           | 0.097%        |
| 23        | 12.592      | 1869          | 1871        | 1876         | rVB      | 15369          | 20279         | 1.26%           | 0.118%        |
| 24        | 12.657      | 1878          | 1882        | 1892         | rVB      | 18311          | 28093         | 1.75%           | 0.164%        |
| 25        | 12.774      | 1898          | 1902        | 1907         | rBV3     | 16685          | 24827         | 1.55%           | 0.145%        |
| 26        | 13.074      | 1946          | 1953        | 1956         | rBV3     | 23675          | 34397         | 2.14%           | 0.201%        |
| 27        | 13.115      | 1956          | 1960        | 1966         | rVB      | 60354          | 75119         | 4.68%           | 0.438%        |
| 28        | 13.204      | 1970          | 1975        | 1978         | rBV5     | 14613          | 20947         | 1.30%           | 0.122%        |
| 29        | 13.515      | 2023          | 2028        | 2044         | rBV      | 572009         | 808555        | 50.35%          | 4.719%        |
| 30        | 13.845      | 2080          | 2084        | 2087         | rBV      | 18533          | 27993         | 1.74%           | 0.163%        |
| 31        | 14.062      | 2117          | 2121        | 2126         | rVV4     | 13807          | 19660         | 1.22%           | 0.115%        |
| 32        | 14.139      | 2129          | 2134        | 2140         | rVB5     | 12096          | 21425         | 1.33%           | 0.125%        |
| 33        | 14.451      | 2184          | 2187        | 2191         | rVB      | 15853          | 19050         | 1.19%           | 0.111%        |
| 34        | 14.610      | 2210          | 2214        | 2218         | rVV2     | 369705         | 482411        | 30.04%          | 2.816%        |

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Integration Parameters: rteint.p

Integrator: RTE

Smoothing : ON

Sampling : 1

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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-BF060517.M  
 Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

|    |        |      |      |      |      |        |        |        |        |
|----|--------|------|------|------|------|--------|--------|--------|--------|
| 35 | 14.651 | 2218 | 2221 | 2230 | rVB  | 187723 | 259366 | 16.15% | 1.514% |
| 36 | 14.745 | 2234 | 2237 | 2248 | rVB  | 40777  | 54493  | 3.39%  | 0.318% |
| 37 | 15.157 | 2303 | 2307 | 2312 | rBV2 | 13823  | 20902  | 1.30%  | 0.122% |
| 38 | 15.421 | 2346 | 2352 | 2356 | rBV  | 47637  | 60395  | 3.76%  | 0.353% |
| 39 | 15.462 | 2356 | 2359 | 2363 | rVV  | 52640  | 60075  | 3.74%  | 0.351% |
| 40 | 15.539 | 2368 | 2372 | 2374 | rBV  | 16986  | 21158  | 1.32%  | 0.123% |
| 41 | 15.568 | 2374 | 2377 | 2382 | rVV2 | 68195  | 104977 | 6.54%  | 0.613% |
| 42 | 15.633 | 2382 | 2388 | 2398 | rVB3 | 73023  | 132796 | 8.27%  | 0.775% |
| 43 | 15.868 | 2425 | 2428 | 2434 | rBV2 | 16955  | 30727  | 1.91%  | 0.179% |
| 44 | 16.086 | 2460 | 2465 | 2470 | rVB3 | 20035  | 25370  | 1.58%  | 0.148% |
| 45 | 16.233 | 2486 | 2490 | 2493 | rBV  | 30901  | 37907  | 2.36%  | 0.221% |
| 46 | 16.274 | 2493 | 2497 | 2501 | rVB4 | 18940  | 25870  | 1.61%  | 0.151% |
| 47 | 16.356 | 2507 | 2511 | 2518 | rVB5 | 18769  | 31737  | 1.98%  | 0.185% |
| 48 | 16.433 | 2518 | 2524 | 2530 | rBV  | 214829 | 257895 | 16.06% | 1.505% |
| 49 | 16.521 | 2536 | 2539 | 2544 | rVB2 | 49140  | 56933  | 3.55%  | 0.332% |
| 50 | 16.574 | 2544 | 2548 | 2555 | rBV2 | 16875  | 21833  | 1.36%  | 0.127% |
| 51 | 16.733 | 2569 | 2575 | 2582 | rBV  | 326854 | 408012 | 25.41% | 2.382% |
| 52 | 16.939 | 2606 | 2610 | 2613 | rBV3 | 11950  | 17237  | 1.07%  | 0.101% |
| 53 | 16.986 | 2613 | 2618 | 2626 | rVB  | 865535 | 978734 | 60.94% | 5.713% |
| 54 | 17.062 | 2626 | 2631 | 2636 | rBV4 | 24273  | 44900  | 2.80%  | 0.262% |
| 55 | 17.180 | 2648 | 2651 | 2653 | rBV3 | 20488  | 29589  | 1.84%  | 0.173% |
| 56 | 17.209 | 2653 | 2656 | 2660 | rVB  | 43687  | 55519  | 3.46%  | 0.324% |
| 57 | 17.292 | 2667 | 2670 | 2674 | rVB  | 33881  | 39049  | 2.43%  | 0.228% |
| 58 | 17.339 | 2674 | 2678 | 2686 | rBV3 | 45052  | 83310  | 5.19%  | 0.486% |
| 59 | 17.456 | 2695 | 2698 | 2702 | rVB  | 29714  | 29069  | 1.81%  | 0.170% |
| 60 | 17.503 | 2702 | 2706 | 2708 | rBV2 | 16938  | 22948  | 1.43%  | 0.134% |
| 61 | 17.980 | 2784 | 2787 | 2789 | rBV3 | 19782  | 16612  | 1.03%  | 0.097% |
| 62 | 18.015 | 2789 | 2793 | 2795 | rVV2 | 19384  | 21375  | 1.33%  | 0.125% |
| 63 | 18.039 | 2795 | 2797 | 2800 | rVB3 | 16888  | 18349  | 1.14%  | 0.107% |
| 64 | 18.192 | 2819 | 2823 | 2826 | rBV5 | 16944  | 21663  | 1.35%  | 0.126% |
| 65 | 18.245 | 2828 | 2832 | 2840 | rBV2 | 107660 | 182513 | 11.36% | 1.065% |
| 66 | 18.327 | 2841 | 2846 | 2851 | rBV2 | 364648 | 535232 | 33.33% | 3.124% |
| 67 | 18.368 | 2851 | 2853 | 2859 | rVB  | 61973  | 76115  | 4.74%  | 0.444% |
| 68 | 18.462 | 2864 | 2869 | 2873 | rBV6 | 25767  | 38463  | 2.40%  | 0.225% |
| 69 | 18.568 | 2883 | 2887 | 2890 | rVB6 | 16964  | 20402  | 1.27%  | 0.119% |
| 70 | 18.662 | 2901 | 2903 | 2908 | rVB6 | 19228  | 27339  | 1.70%  | 0.160% |
| 71 | 18.809 | 2925 | 2928 | 2931 | rBV4 | 26861  | 32434  | 2.02%  | 0.189% |

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Instrument :  
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ClientSampleId :  
HA4-WCA

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-BF060517.M  
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

|    |        |      |      |      |      |        |        |        |        |
|----|--------|------|------|------|------|--------|--------|--------|--------|
| 72 | 18.845 | 2931 | 2934 | 2938 | rVV  | 27083  | 36039  | 2.24%  | 0.210% |
| 73 | 18.886 | 2938 | 2941 | 2944 | rVB2 | 21848  | 23514  | 1.46%  | 0.137% |
| 74 | 19.050 | 2966 | 2969 | 2976 | rVB2 | 66529  | 98267  | 6.12%  | 0.574% |
| 75 | 19.603 | 3059 | 3063 | 3066 | rBV  | 98341  | 129730 | 8.08%  | 0.757% |
| 76 | 19.892 | 3109 | 3112 | 3116 | rBV  | 63159  | 72318  | 4.50%  | 0.422% |
| 77 | 19.950 | 3120 | 3122 | 3126 | rVB  | 75475  | 68307  | 4.25%  | 0.399% |
| 78 | 20.003 | 3127 | 3131 | 3136 | rVV  | 268866 | 324458 | 20.20% | 1.894% |
| 79 | 20.527 | 3216 | 3220 | 3230 | rVB3 | 91964  | 175353 | 10.92% | 1.024% |
| 80 | 20.850 | 3271 | 3275 | 3281 | rVB2 | 78594  | 116333 | 7.24%  | 0.679% |
| 81 | 21.197 | 3330 | 3334 | 3339 | rVB2 | 28087  | 45445  | 2.83%  | 0.265% |
| 82 | 21.580 | 3394 | 3399 | 3406 | rVB4 | 129618 | 243213 | 15.14% | 1.420% |
| 83 | 21.762 | 3423 | 3430 | 3442 | rVB6 | 128510 | 324520 | 20.21% | 1.894% |

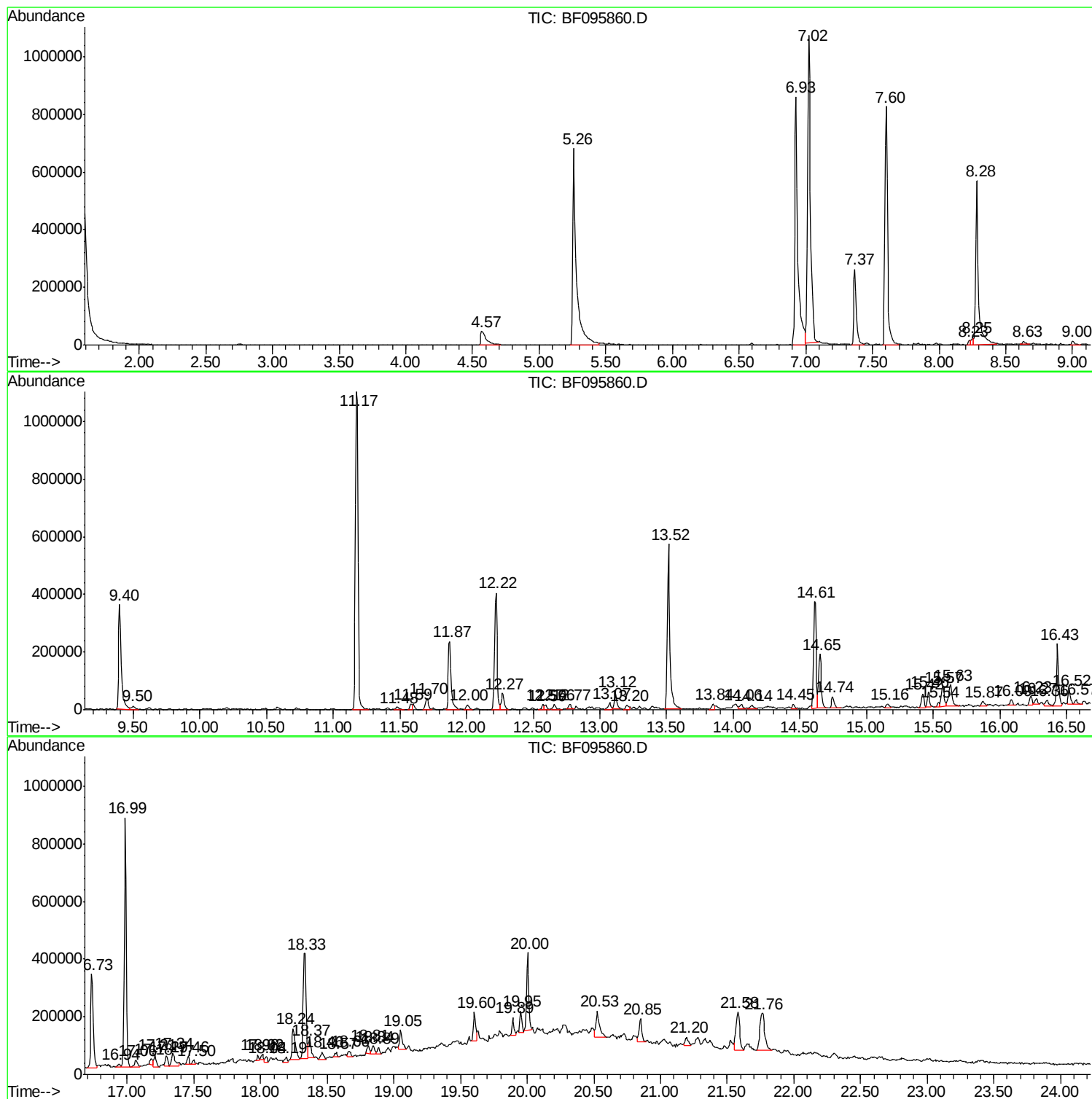
Sum of corrected areas: 17132484

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Instrument :  
BNA\_F  
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Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF060517.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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Instrument :  
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ClientSampleId :  
HA4-WCA

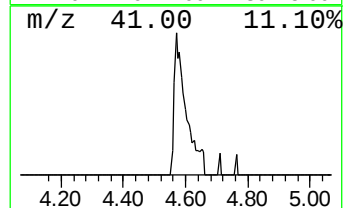
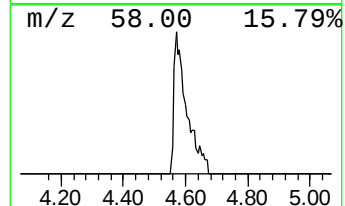
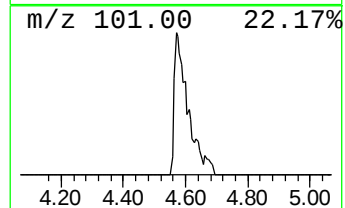
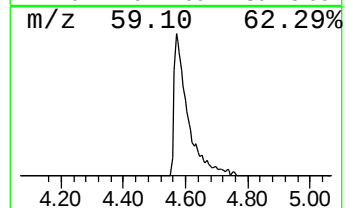
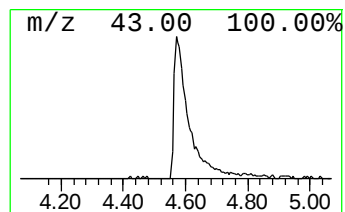
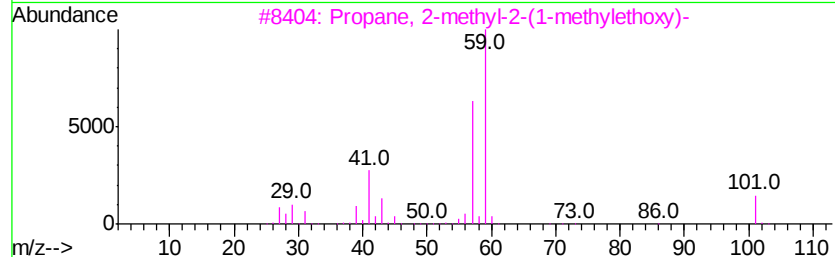
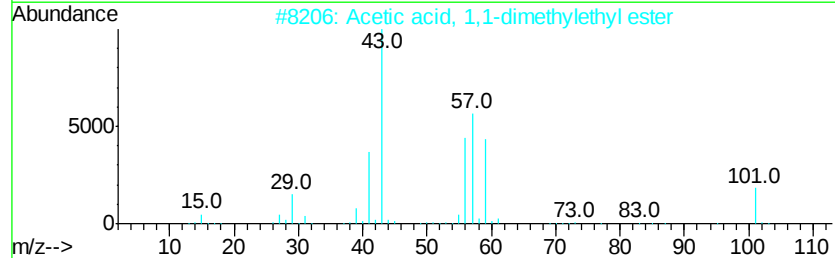
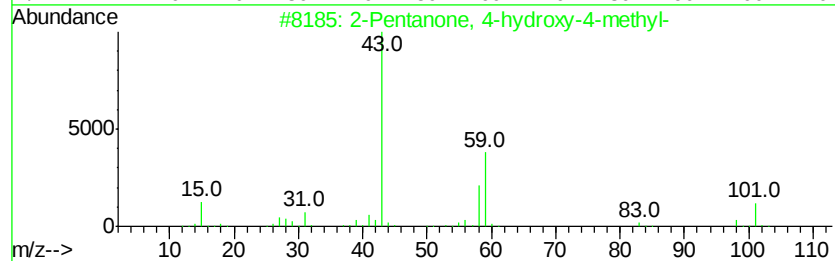
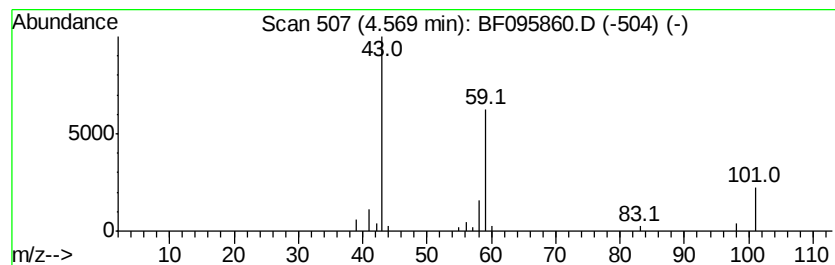
Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF060517.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

\*\*\*\*\*  
Peak Number 1 2-Pentanone, 4-hydroxy-4-me... Concentration Rank 6

| R.T. | EstConc | Area   | Relative to ISTD       | R.T. |
|------|---------|--------|------------------------|------|
| 4.57 | 8.08 ng | 143078 | 1,4-Dichlorobenzene-d4 | 7.37 |

| Hit# | of | 5 | Tentative ID                        | MW  | MolForm | CAS#        | Qual |
|------|----|---|-------------------------------------|-----|---------|-------------|------|
| 1    |    |   | 2-Pentanone, 4-hydroxy-4-methyl-    | 116 | C6H12O2 | 000123-42-2 | 56   |
| 2    |    |   | Acetic acid, 1,1-dimethylethyl e... | 116 | C6H12O2 | 000540-88-5 | 39   |
| 3    |    |   | Propane, 2-methyl-2-(1-methyleth... | 116 | C7H16O  | 017348-59-3 | 9    |
| 4    |    |   | 3-Pentanol, 2-methyl-               | 102 | C6H14O  | 000565-67-3 | 9    |
| 5    |    |   | 3-Hexanol, 4-methyl-                | 116 | C7H16O  | 000615-29-2 | 9    |



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Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF060517.M  
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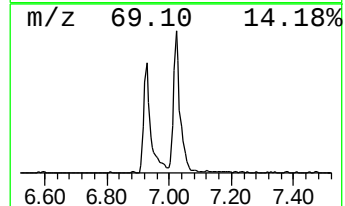
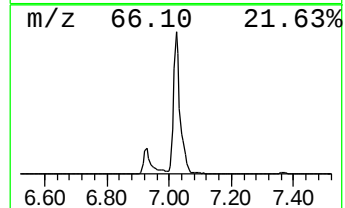
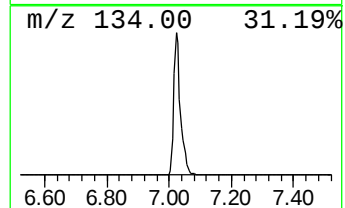
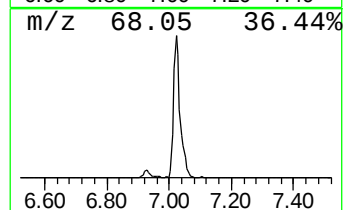
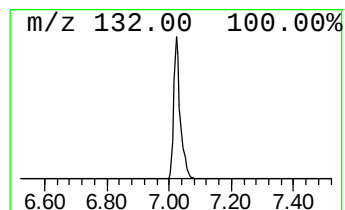
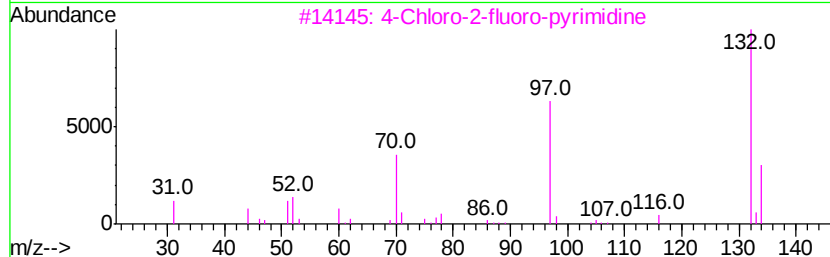
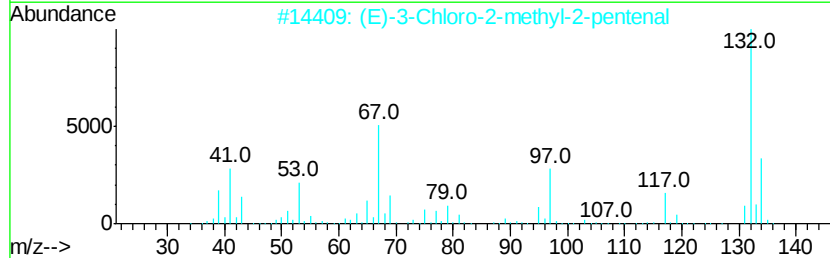
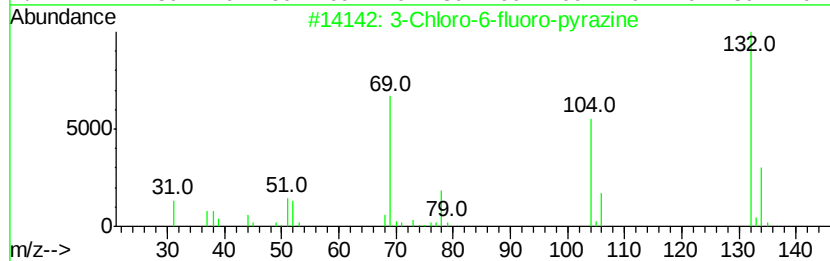
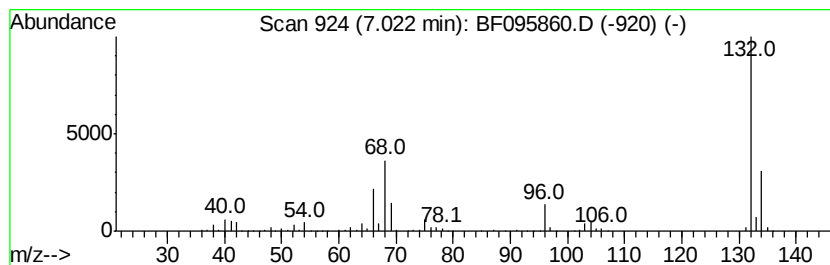
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 2 unknown7.02 Concentration Rank 1

| R.T. | EstConc  | Area    | Relative to ISTD       | R.T. |
|------|----------|---------|------------------------|------|
| 7.02 | 90.67 ng | 1605950 | 1,4-Dichlorobenzene-d4 | 7.37 |

| Hit# | of | Tentative ID                        | MW  | MolForm   | CAS#         | Qual |
|------|----|-------------------------------------|-----|-----------|--------------|------|
| 1    | 5  | 3-Chloro-6-fluoro-pyrazine          | 132 | C4H2ClFN2 | 1000146-10-7 | 35   |
| 2    |    | (E)-3-Chloro-2-methyl-2-pentenal    | 132 | C6H9ClO   | 031357-76-3  | 35   |
| 3    |    | 4-Chloro-2-fluoro-pyrimidine        | 132 | C4H2ClFN2 | 051422-00-5  | 9    |
| 4    |    | 2H-Cyclopenta[d]pyridazine, 2-me... | 132 | C8H8N2    | 022291-85-6  | 9    |
| 5    |    | 4-Methylpyrrolo[1,2-a]pyrazine      | 132 | C8H8N2    | 064608-60-2  | 9    |



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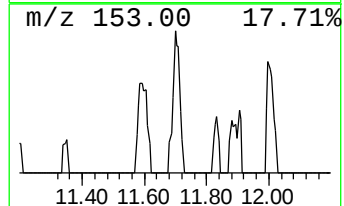
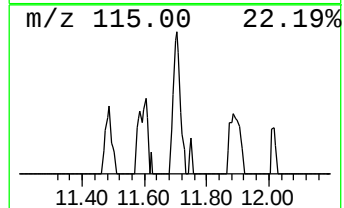
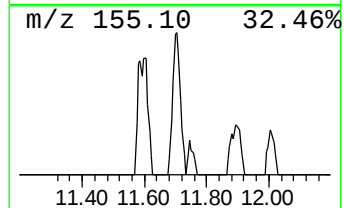
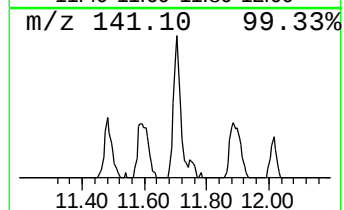
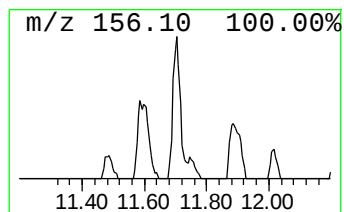
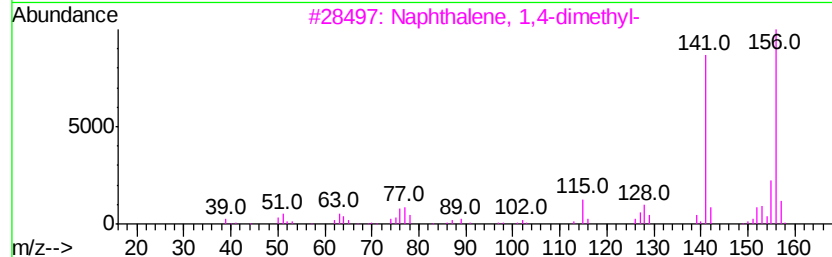
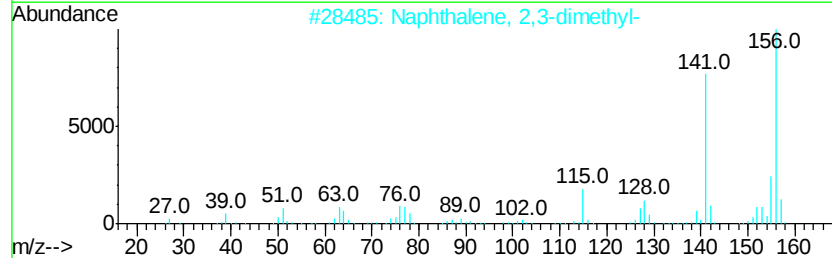
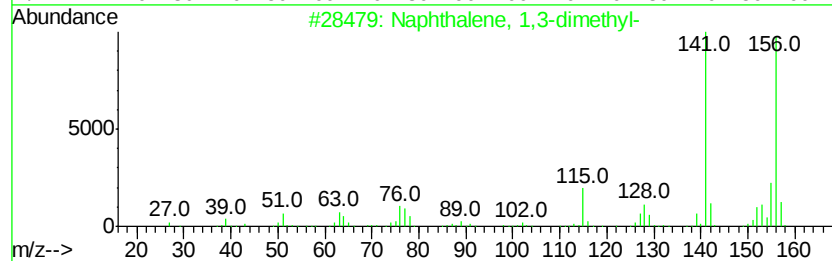
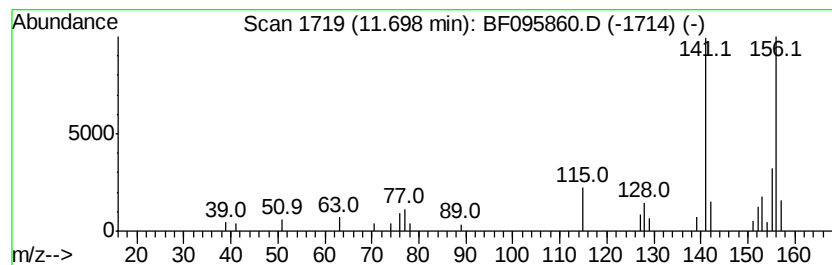
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 4 Naphthalene, 1,3-dimethyl- Concentration Rank 16

| R.T.  | EstConc | Area  | Relative to ISTD | R.T.  |
|-------|---------|-------|------------------|-------|
| 11.70 | 2.30 ng | 60539 | Acenaphthene-d10 | 12.22 |

| Hit# | of | Tentative ID               | MW  | MolForm | CAS#        | Qual |
|------|----|----------------------------|-----|---------|-------------|------|
| 1    | 5  | Naphthalene, 1,3-dimethyl- | 156 | C12H12  | 000575-41-7 | 98   |
| 2    |    | Naphthalene, 2,3-dimethyl- | 156 | C12H12  | 000581-40-8 | 97   |
| 3    |    | Naphthalene, 1,4-dimethyl- | 156 | C12H12  | 000571-58-4 | 96   |
| 4    |    | Naphthalene, 1,5-dimethyl- | 156 | C12H12  | 000571-61-9 | 96   |
| 5    |    | Naphthalene, 1,6-dimethyl- | 156 | C12H12  | 000575-43-9 | 96   |



Data Path : Z:\HPCHEM1\BNA F\DATA\BF061017\  
Data File : BF095860.D  
Acq On : 10 Jun 2017 21:48  
Operator : SJ/MA  
Sample : I3615-01  
Misc :  
ALS Vial : 15 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
HA4-WCA

Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF060517.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

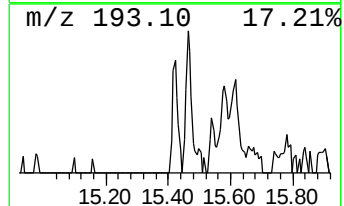
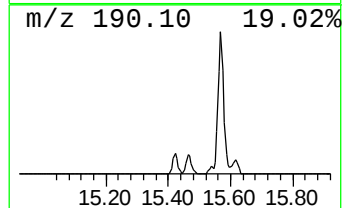
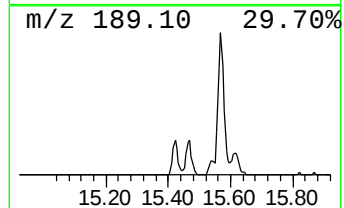
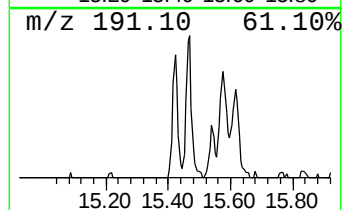
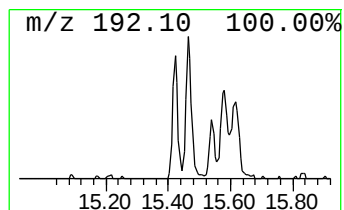
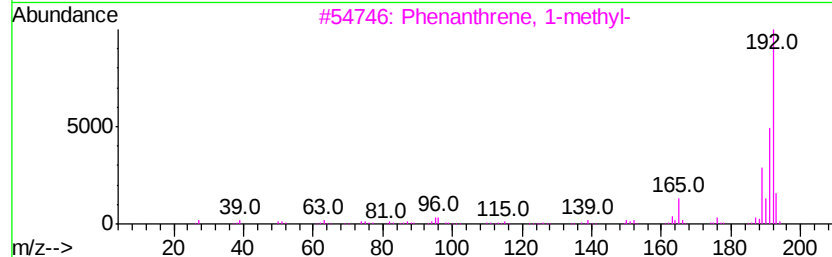
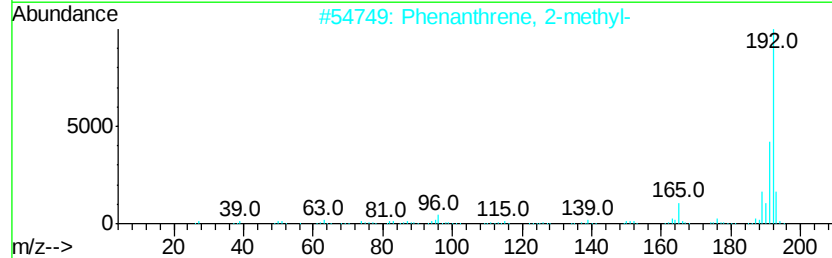
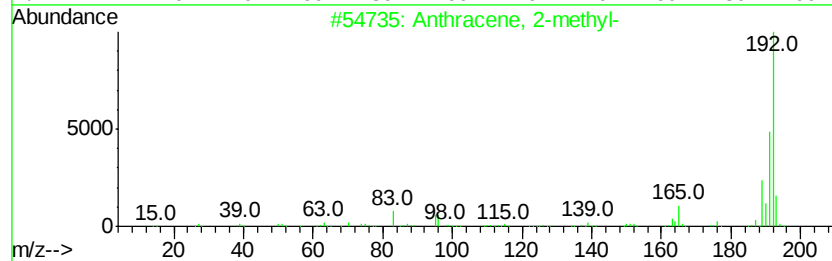
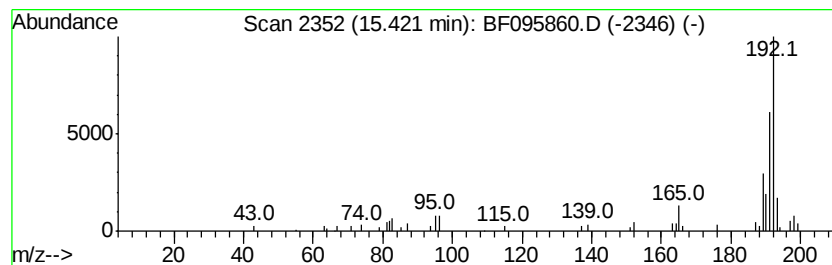
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 5 Anthracene, 2-methyl- Concentration Rank 14

| R.T.  | EstConc | Area  | Relative to ISTD | R.T.  |
|-------|---------|-------|------------------|-------|
| 15.42 | 2.50 ng | 60395 | Phenanthrene-d10 | 14.61 |

| Hit# of | 5 | Tentative ID                            | MW  | MolForm | CAS#        | Qual |
|---------|---|-----------------------------------------|-----|---------|-------------|------|
| 1       |   | Anthracene, 2-methyl-                   | 192 | C15H12  | 000613-12-7 | 95   |
| 2       |   | Phenanthrene, 2-methyl-                 | 192 | C15H12  | 002531-84-2 | 95   |
| 3       |   | Phenanthrene, 1-methyl-                 | 192 | C15H12  | 000832-69-9 | 94   |
| 4       |   | 1H-Cyclopropa[1,1]phenanthrene, 1a, ... | 192 | C15H12  | 000949-41-7 | 89   |
| 5       |   | Phenanthrene, 4-methyl-                 | 192 | C15H12  | 000832-64-4 | 89   |



Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF061017\  
Data File : BF095860.D  
Acq On : 10 Jun 2017 21:48  
Operator : SJ/MA  
Sample : I3615-01  
Misc :  
ALS Vial : 15 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
HA4-WCA

Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF060517.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

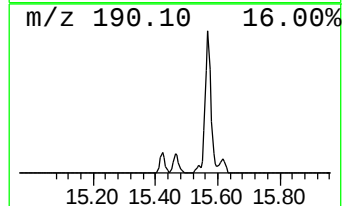
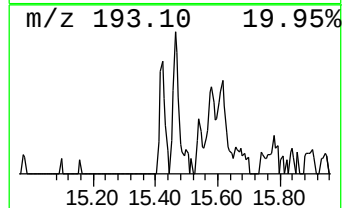
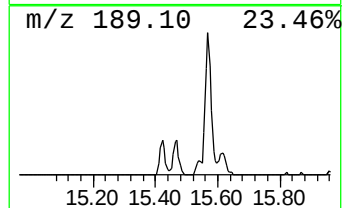
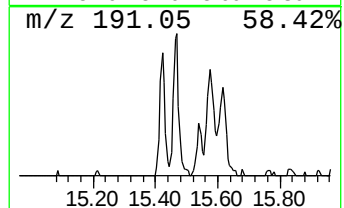
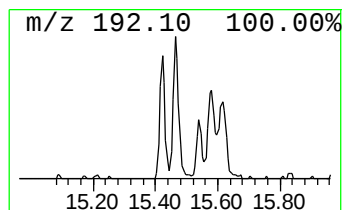
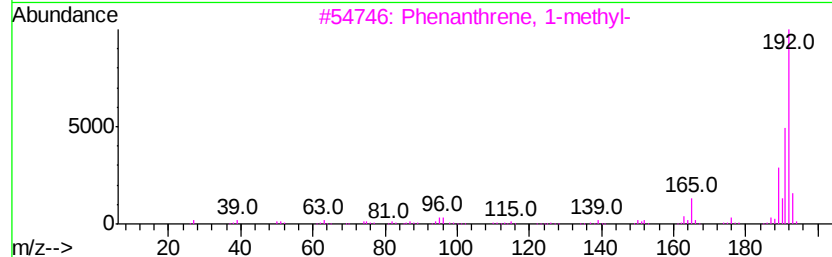
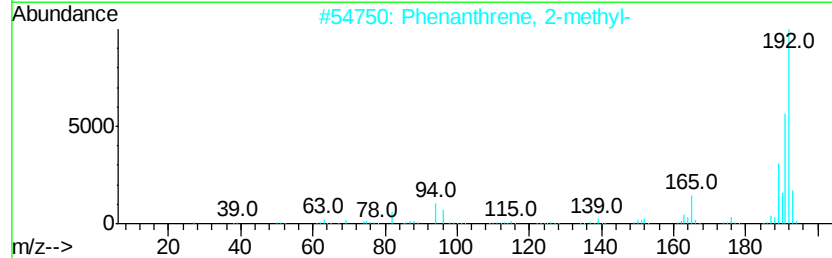
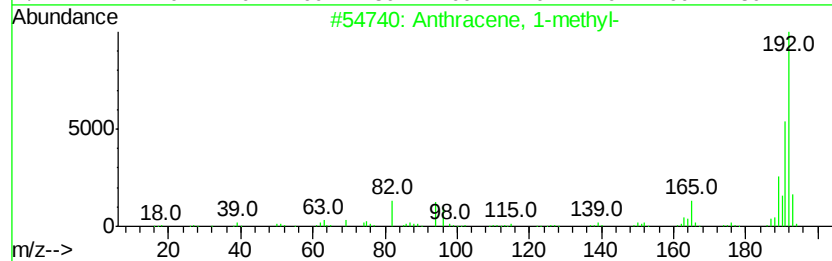
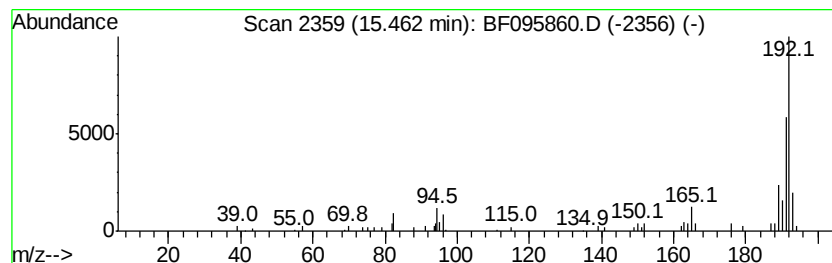
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 6 Anthracene, 1-methyl- Concentration Rank 15

| R.T.  | EstConc | Area  | Relative to ISTD | R.T.  |
|-------|---------|-------|------------------|-------|
| 15.46 | 2.49 ng | 60075 | Phenanthrene-d10 | 14.61 |

| Hit# of | 5 | Tentative ID            | MW  | MolForm | CAS#        | Qual |
|---------|---|-------------------------|-----|---------|-------------|------|
| 1       |   | Anthracene, 1-methyl-   | 192 | C15H12  | 000610-48-0 | 96   |
| 2       |   | Phenanthrene, 2-methyl- | 192 | C15H12  | 002531-84-2 | 96   |
| 3       |   | Phenanthrene, 1-methyl- | 192 | C15H12  | 000832-69-9 | 95   |
| 4       |   | Anthracene, 2-methyl-   | 192 | C15H12  | 000613-12-7 | 93   |
| 5       |   | Anthracene, 9-methyl-   | 192 | C15H12  | 000779-02-2 | 91   |



Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF061017\  
Data File : BF095860.D  
Acq On : 10 Jun 2017 21:48  
Operator : SJ/MA  
Sample : I3615-01  
Misc :  
ALS Vial : 15 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
HA4-WCA

Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF060517.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

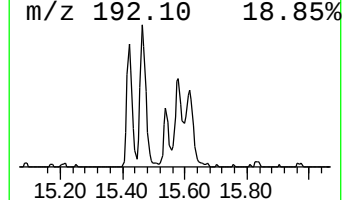
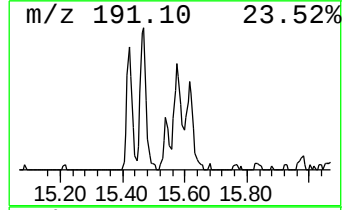
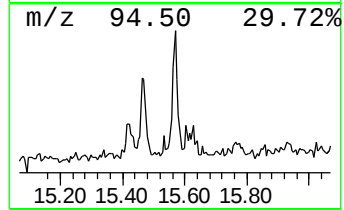
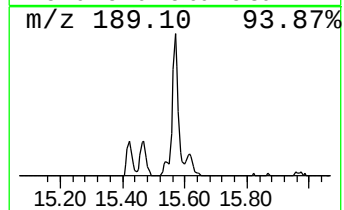
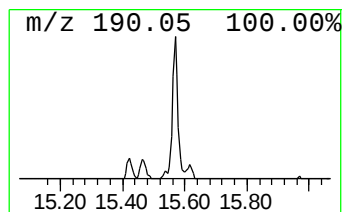
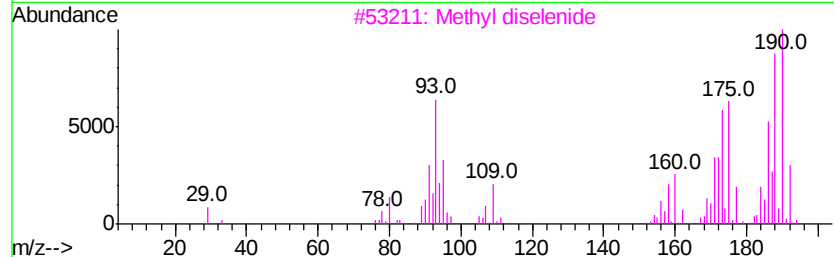
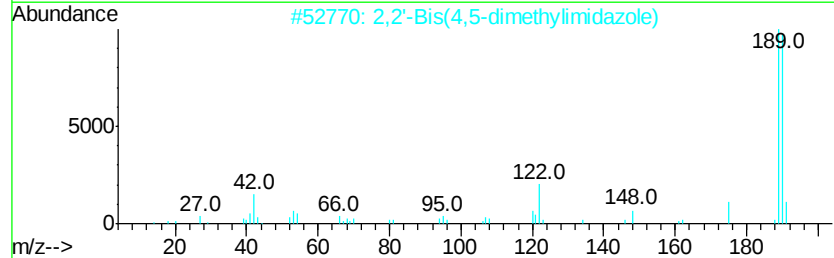
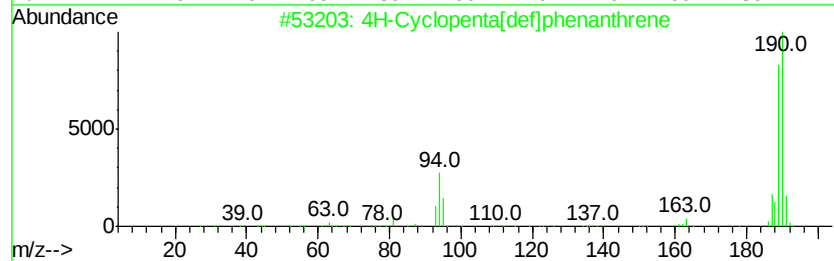
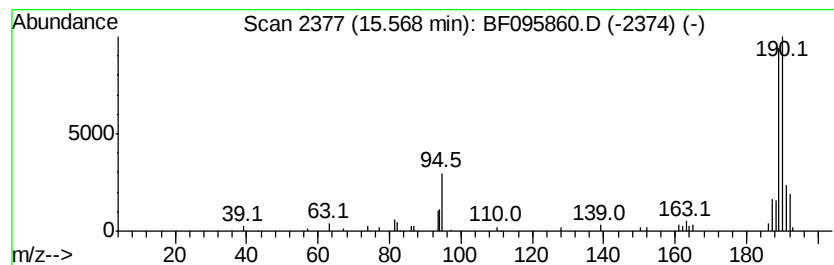
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 7 4H-Cyclopenta[def]phenanthrene Concentration Rank 11

| R.T.  | EstConc | Area   | Relative to ISTD | R.T.  |
|-------|---------|--------|------------------|-------|
| 15.57 | 4.35 ng | 104977 | Phenanthrene-d10 | 14.61 |

| Hit# of | 5 | Tentative ID                        | MW  | MolForm  | CAS#        | Qual |
|---------|---|-------------------------------------|-----|----------|-------------|------|
| 1       |   | 4H-Cyclopenta[def]phenanthrene      | 190 | C15H10   | 000203-64-5 | 97   |
| 2       |   | 2,2'-Bis(4,5-dimethylimidazole)     | 190 | C10H14N4 | 069286-06-2 | 40   |
| 3       |   | Methyl diselenide                   | 190 | C2H6Se2  | 007101-31-7 | 30   |
| 4       |   | 1,4-Naphthalenedione, 2,5-dihydr... | 190 | C10H6O4  | 004923-55-1 | 17   |
| 5       |   | 3-Fluoro-5-(trifluoromethyl)benz... | 189 | C8H3F4N  | 149793-69-1 | 16   |



Data Path : Z:\HPCHEM1\BNA F\DATA\BF061017\  
Data File : BF095860.D  
Acq On : 10 Jun 2017 21:48  
Operator : SJ/MA  
Sample : I3615-01  
Misc :  
ALS Vial : 15 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
HA4-WCA

Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF060517.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

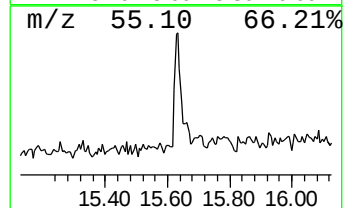
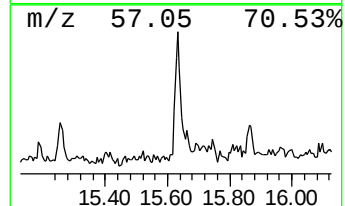
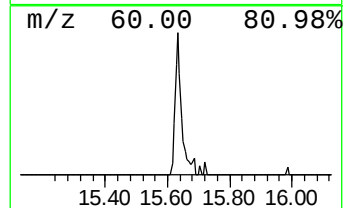
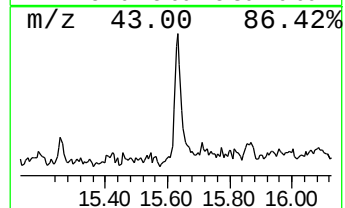
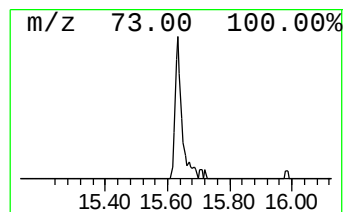
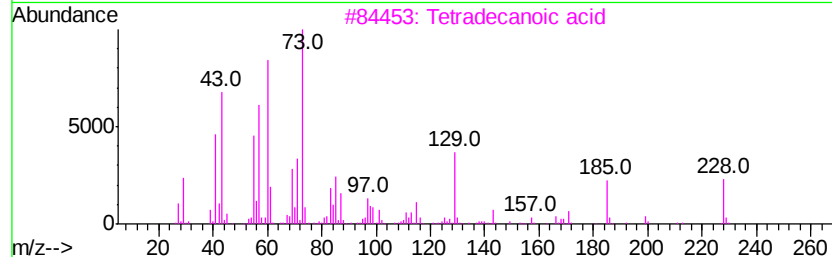
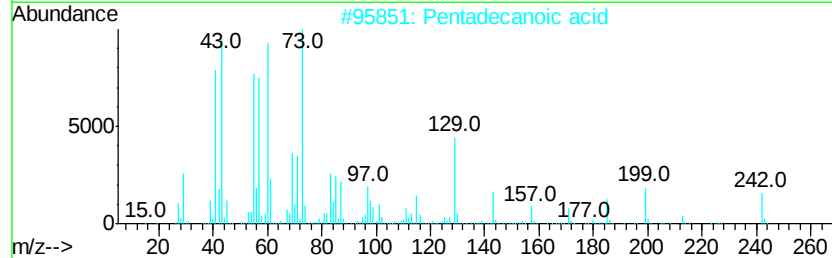
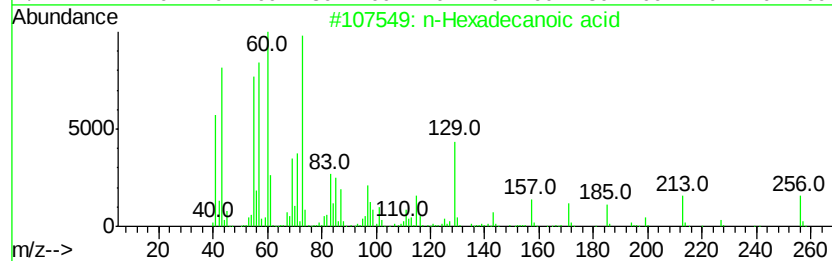
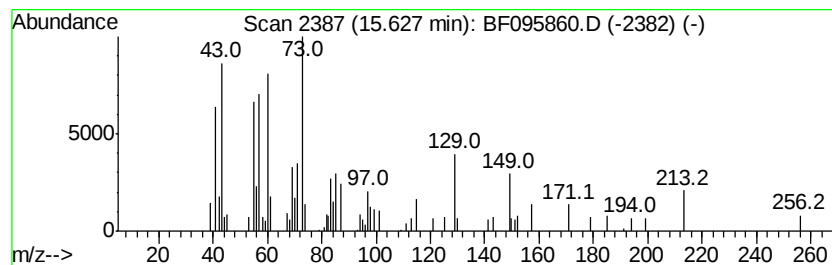
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 8 n-Hexadecanoic acid Concentration Rank 9

| R.T.  | EstConc | Area   | Relative to ISTD | R.T.  |
|-------|---------|--------|------------------|-------|
| 15.63 | 5.51 ng | 132796 | Phenanthrene-d10 | 14.61 |

| Hit# of 5 | Tentative ID                   | MW  | MolForm    | CAS#        | Qual |
|-----------|--------------------------------|-----|------------|-------------|------|
| 1         | n-Hexadecanoic acid            | 256 | C16H32O2   | 000057-10-3 | 98   |
| 2         | Pentadecanoic acid             | 242 | C15H30O2   | 001002-84-2 | 87   |
| 3         | Tetradecanoic acid             | 228 | C14H28O2   | 000544-63-8 | 80   |
| 4         | Decanoic acid, silver(1+) salt | 278 | C10H19AgO2 | 013126-67-5 | 59   |
| 5         | Tridecanoic acid               | 214 | C13H26O2   | 000638-53-9 | 50   |



Data Path : Z:\HPCHEM1\BNA F\DATA\BF061017\  
Data File : BF095860.D  
Acq On : 10 Jun 2017 21:48  
Operator : SJ/MA  
Sample : I3615-01  
Misc :  
ALS Vial : 15 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
HA4-WCA

Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF060517.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

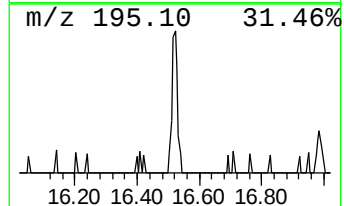
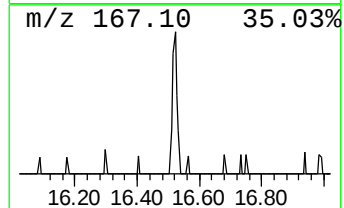
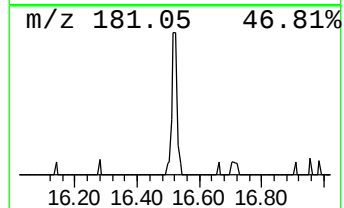
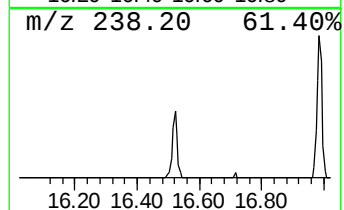
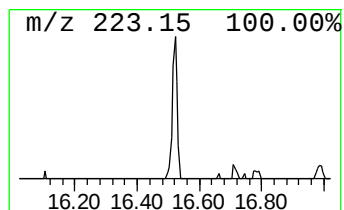
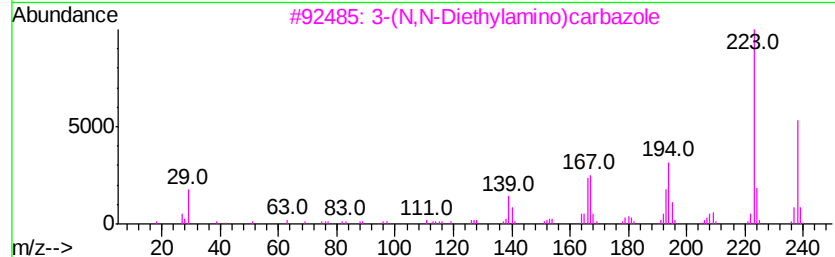
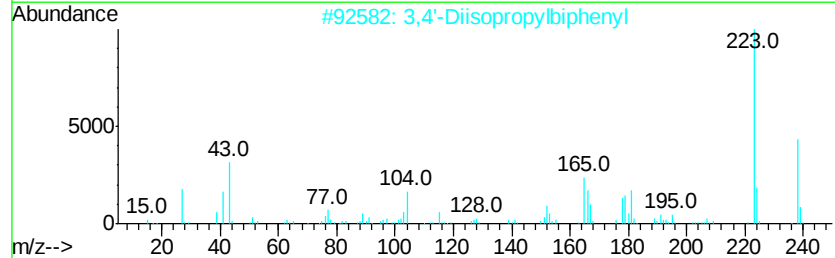
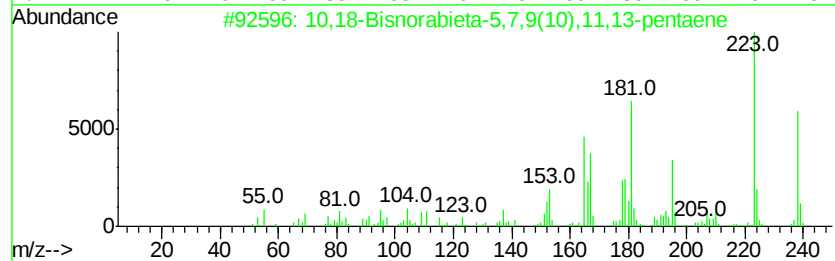
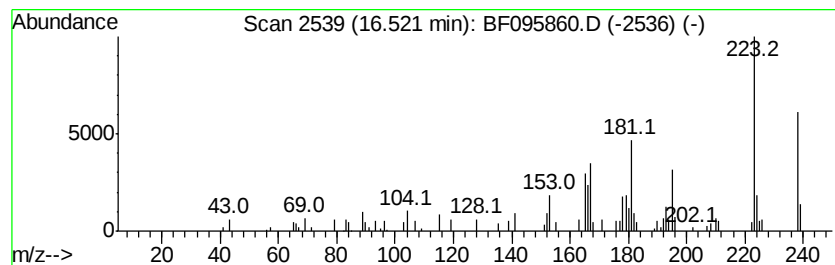
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 9 10,18-Bisnorabieta-5,7,9(10... Concentration Rank 17

| R.T.  | EstConc | Area  | Relative to ISTD | R.T.  |
|-------|---------|-------|------------------|-------|
| 16.52 | 2.13 ng | 56933 | Chrysene-d12     | 18.33 |

| Hit# | of | Tentative ID                        | MW  | MolForm  | CAS#        | Qual |
|------|----|-------------------------------------|-----|----------|-------------|------|
| 1    | 5  | 10,18-Bisnorabieta-5,7,9(10),11,... | 238 | C18H22   | 006566-19-4 | 99   |
| 2    |    | 3,4'-Diisopropylbiphenyl            | 238 | C18H22   | 061434-46-6 | 89   |
| 3    |    | 3-(N,N-Diethylamino)carbazole       | 238 | C16H18N2 | 054994-31-9 | 62   |
| 4    |    | Cyclopent[alindene, 3,8-dihydro-... | 238 | C18H22   | 017384-72-4 | 47   |
| 5    |    | Anthracene, 9,10-dimethoxy-         | 238 | C16H14O2 | 002395-97-3 | 46   |



Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF061017\  
Data File : BF095860.D  
Acq On : 10 Jun 2017 21:48  
Operator : SJ/MA  
Sample : I3615-01  
Misc :  
ALS Vial : 15 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
HA4-WCA

Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF060517.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

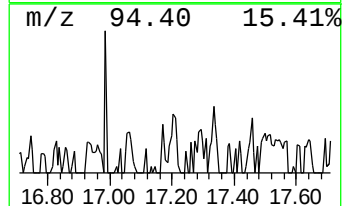
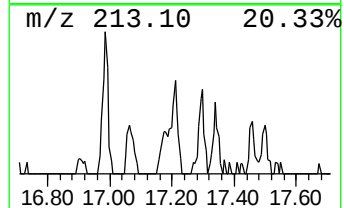
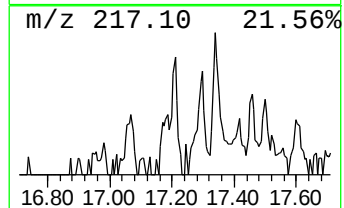
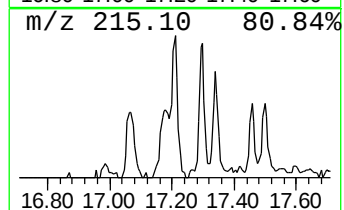
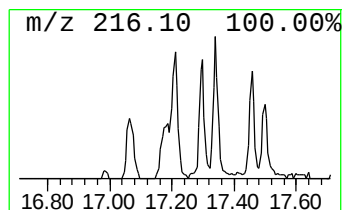
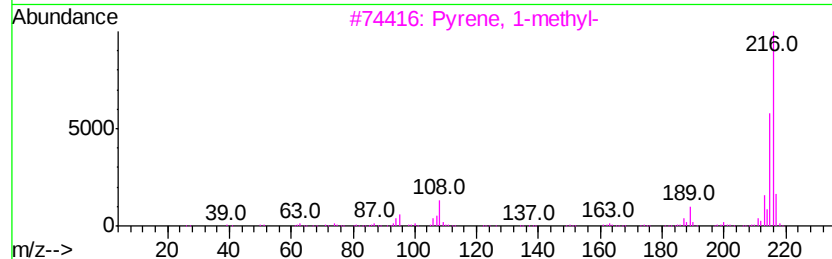
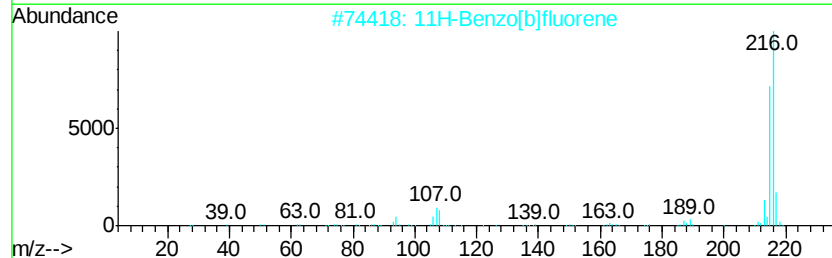
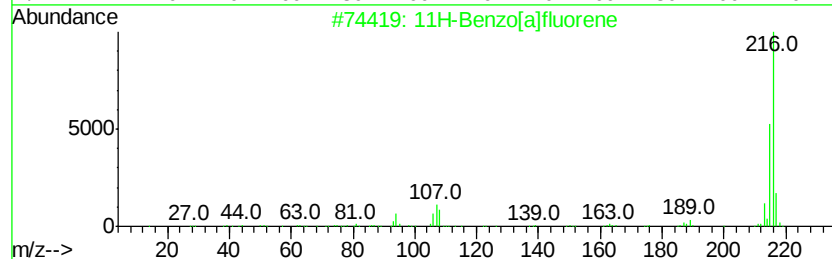
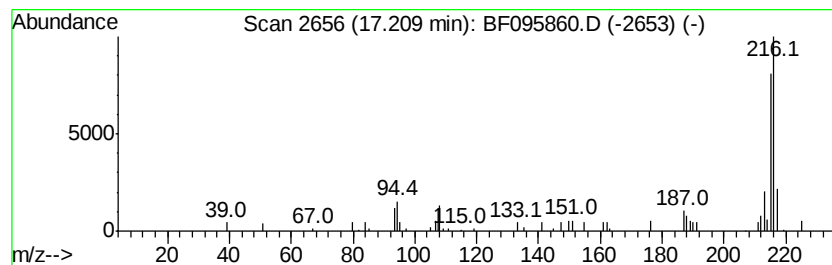
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 10 11H-Benzo[a]fluorene Concentration Rank 18

| R.T.  | EstConc | Area  | Relative to ISTD | R.T.  |
|-------|---------|-------|------------------|-------|
| 17.21 | 2.07 ng | 55519 | Chrysene-d12     | 18.33 |

| Hit# | of | 5 | Tentative ID            | MW  | MolForm | CAS#        | Qual |
|------|----|---|-------------------------|-----|---------|-------------|------|
| 1    |    |   | 11H-Benzo[a]fluorene    | 216 | C17H12  | 000238-84-6 | 91   |
| 2    |    |   | 11H-Benzo[b]fluorene    | 216 | C17H12  | 000243-17-4 | 86   |
| 3    |    |   | Pvrene, 1-methyl-       | 216 | C17H12  | 002381-21-7 | 86   |
| 4    |    |   | Fluoranthene, 2-methyl- | 216 | C17H12  | 033543-31-6 | 80   |
| 5    |    |   | 7H-Benzo[c]fluorene     | 216 | C17H12  | 000205-12-9 | 64   |



Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF061017\  
Data File : BF095860.D  
Acq On : 10 Jun 2017 21:48  
Operator : SJ/MA  
Sample : I3615-01  
Misc :  
ALS Vial : 15 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
HA4-WCA

Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF060517.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

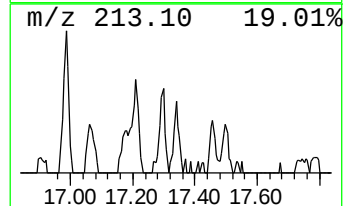
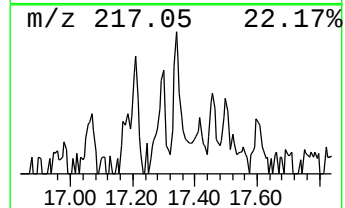
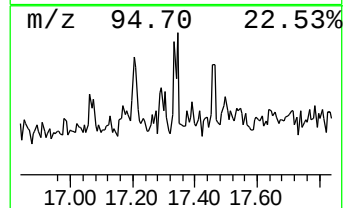
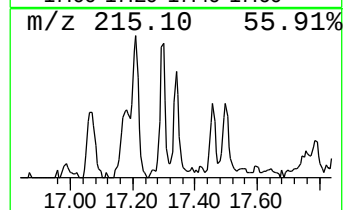
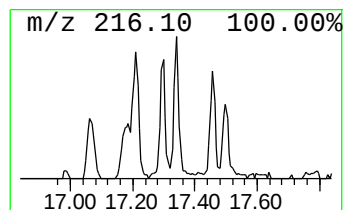
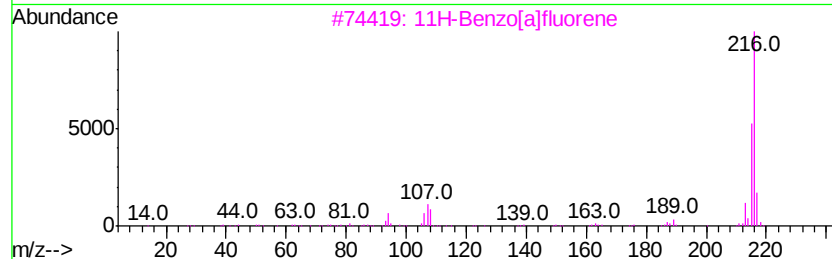
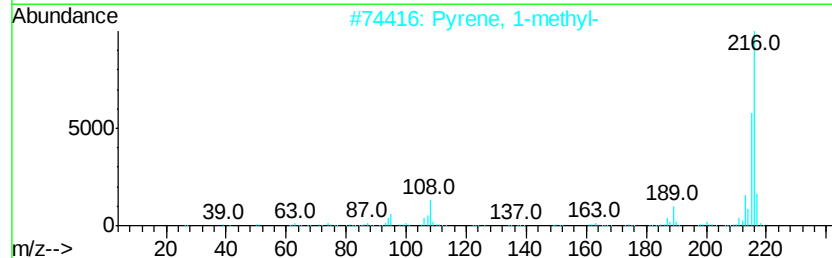
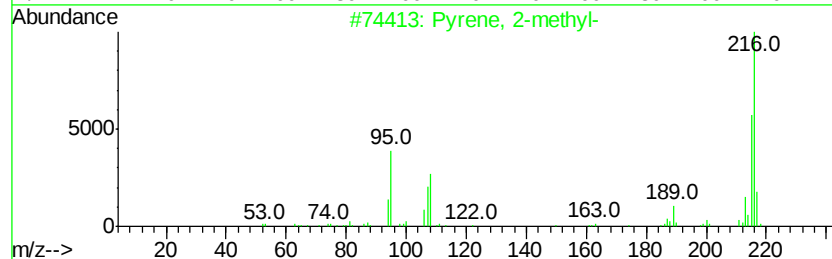
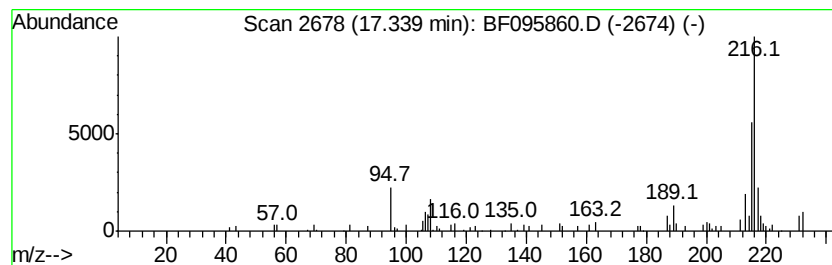
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 11 Pyrene, 2-methyl- Concentration Rank 13

| R.T.  | EstConc | Area  | Relative to ISTD | R.T.  |
|-------|---------|-------|------------------|-------|
| 17.34 | 3.11 ng | 83310 | Chrysene-d12     | 18.33 |

| Hit# | of | 5 | Tentative ID            | MW  | MolForm | CAS#        | Qual |
|------|----|---|-------------------------|-----|---------|-------------|------|
| 1    |    |   | Pyrene, 2-methyl-       | 216 | C17H12  | 003442-78-2 | 94   |
| 2    |    |   | Pyrene, 1-methyl-       | 216 | C17H12  | 002381-21-7 | 87   |
| 3    |    |   | 11H-Benzofluorene       | 216 | C17H12  | 000238-84-6 | 87   |
| 4    |    |   | Pyrene, 4-methyl-       | 216 | C17H12  | 003353-12-6 | 81   |
| 5    |    |   | Fluoranthene, 2-methyl- | 216 | C17H12  | 033543-31-6 | 68   |



Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF061017\  
Data File : BF095860.D  
Acq On : 10 Jun 2017 21:48  
Operator : SJ/MA  
Sample : I3615-01  
Misc :  
ALS Vial : 15 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
HA4-WCA

Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF060517.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

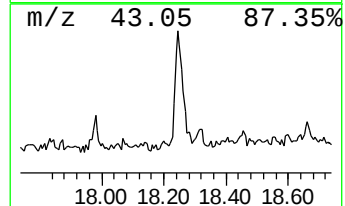
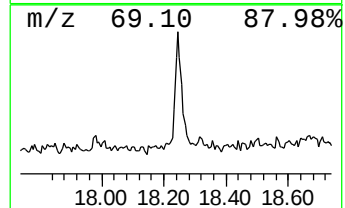
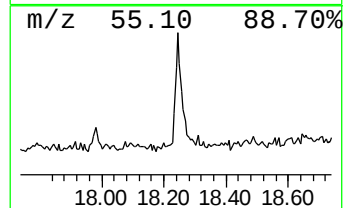
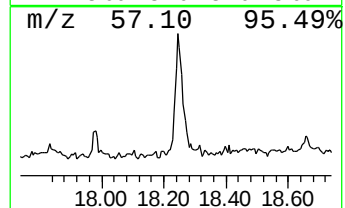
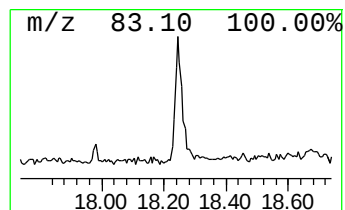
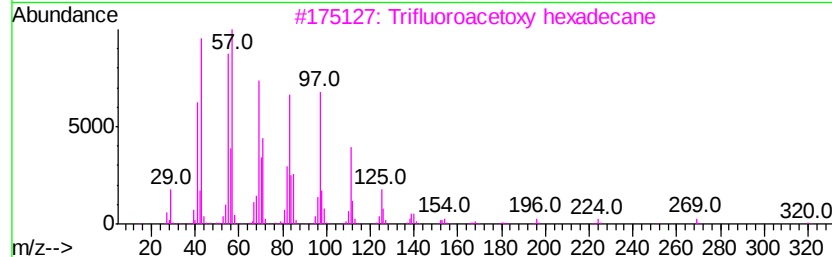
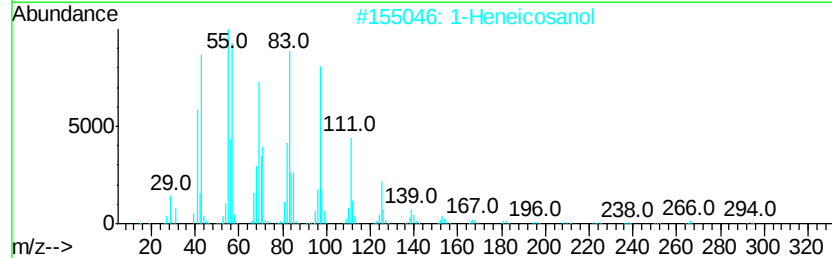
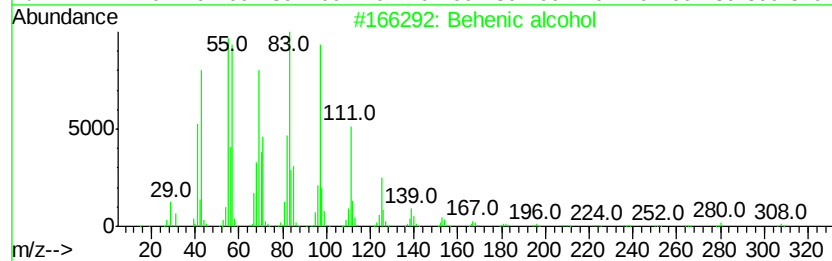
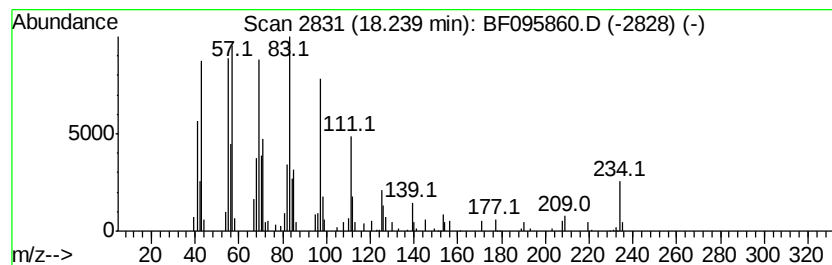
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 12 Behenic alcohol Concentration Rank 8

| R.T.  | EstConc | Area   | Relative to ISTD | R.T.  |
|-------|---------|--------|------------------|-------|
| 18.24 | 6.82 ng | 182513 | Chrysene-d12     | 18.33 |

| Hit# | of | Tentative ID                | MW  | MolForm    | CAS#        | Qual |
|------|----|-----------------------------|-----|------------|-------------|------|
| 1    | 5  | Behenic alcohol             | 326 | C22H46O    | 000661-19-8 | 95   |
| 2    |    | 1-Heneicosanol              | 312 | C21H44O    | 015594-90-8 | 95   |
| 3    |    | Trifluoroacetoxy hexadecane | 338 | C18H33F3O2 | 006222-03-3 | 95   |
| 4    |    | n-Tetracosanol-1            | 354 | C24H50O    | 000506-51-4 | 94   |
| 5    |    | 1-Octadecanol               | 270 | C18H38O    | 000112-92-5 | 94   |



Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF061017\  
Data File : BF095860.D  
Acq On : 10 Jun 2017 21:48  
Operator : SJ/MA  
Sample : I3615-01  
Misc :  
ALS Vial : 15 Sample Multiplier: 1

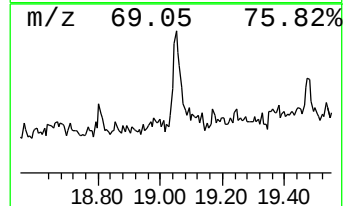
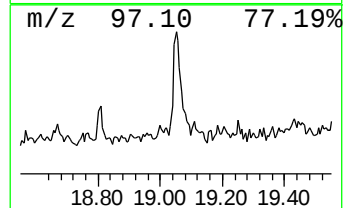
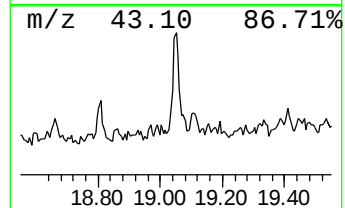
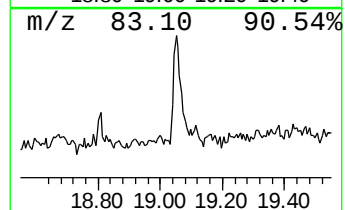
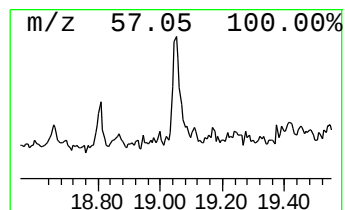
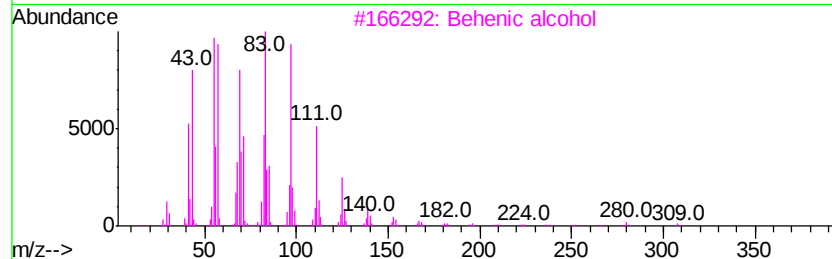
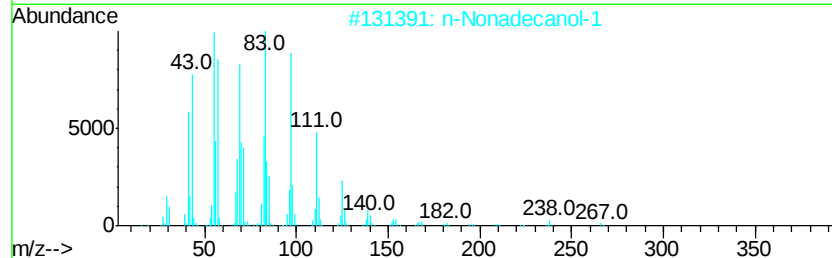
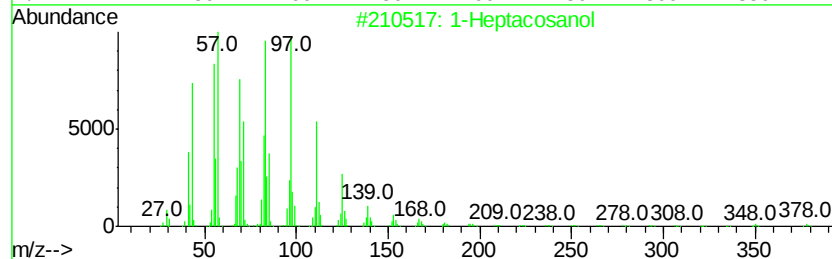
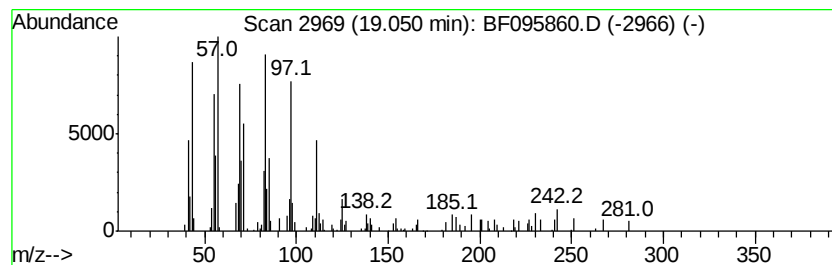
Instrument :  
BNA\_F  
ClientSampleId :  
HA4-WCA

Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF060517.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

\*\*\*\*\*  
Peak Number 13 1-Heptacosanol Concentration Rank 12

| R.T.      | EstConc                            | Area  | Relative to ISTD |             | R.T.  |
|-----------|------------------------------------|-------|------------------|-------------|-------|
| 19.05     | 3.67 ng                            | 98267 | Chrysene-d12     |             | 18.33 |
| Hit# of 5 | Tentative ID                       | MW    | MolForm          | CAS#        | Qual  |
| 1         | 1-Heptacosanol                     | 396   | C27H56O          | 002004-39-9 | 91    |
| 2         | n-Nonadecanol-1                    | 284   | C19H40O          | 001454-84-8 | 90    |
| 3         | Behenic alcohol                    | 326   | C22H46O          | 000661-19-8 | 90    |
| 4         | Bromoacetic acid, pentadecyl ester | 348   | C17H33BrO2       | 131143-01-6 | 68    |
| 5         | n-Heptadecanol-1                   | 256   | C17H36O          | 001454-85-9 | 68    |



Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF061017\  
Data File : BF095860.D  
Acq On : 10 Jun 2017 21:48  
Operator : SJ/MA  
Sample : I3615-01  
Misc :  
ALS Vial : 15 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
HA4-WCA

Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF060517.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

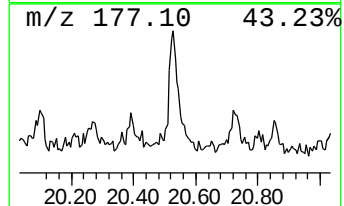
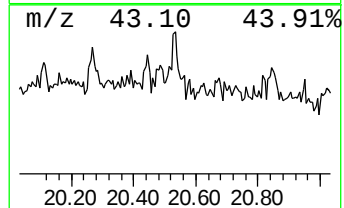
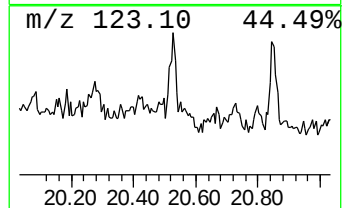
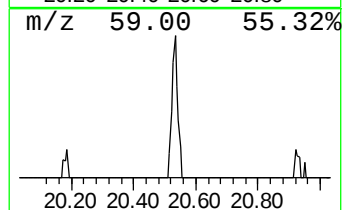
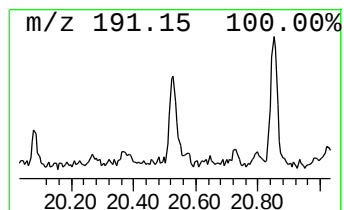
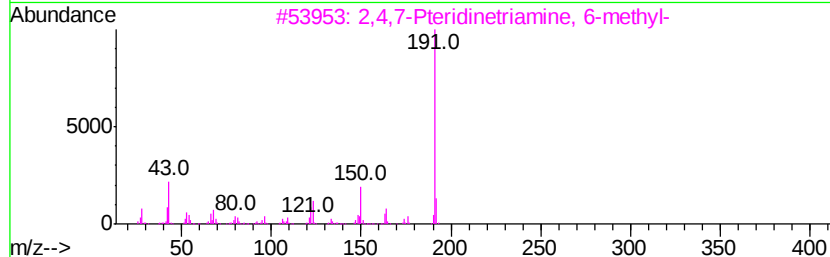
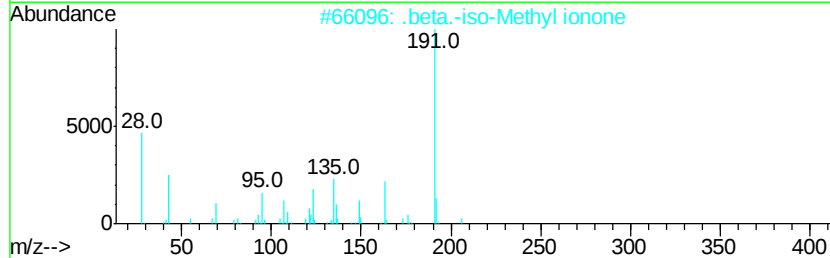
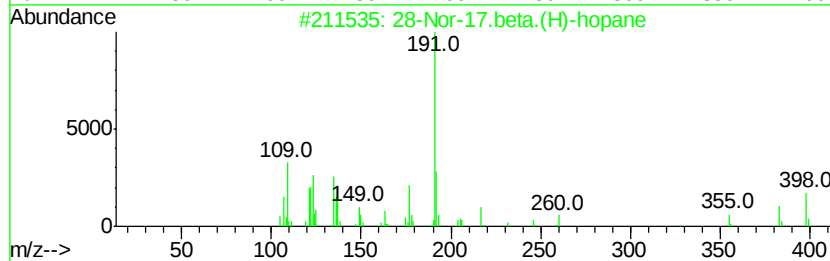
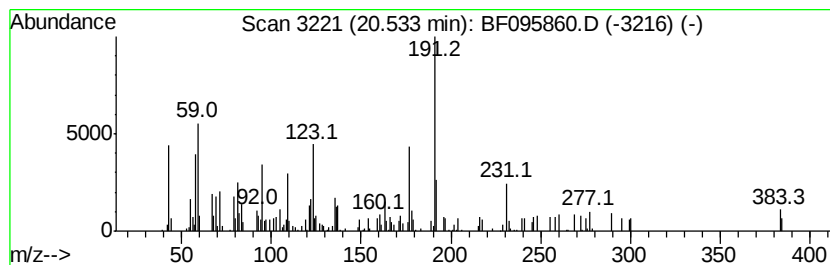
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 15 unknown20.53 Concentration Rank 5

| R.T.  | EstConc  | Area   | Relative to ISTD | R.T.  |
|-------|----------|--------|------------------|-------|
| 20.53 | 10.81 ng | 175353 | Perylene-d12     | 20.00 |

| Hit# | of | Tentative ID                        | MW  | MolForm   | CAS#         | Qual |
|------|----|-------------------------------------|-----|-----------|--------------|------|
| 1    | 5  | 28-Nor-17.beta.(H)-hopane           | 398 | C29H50    | 036728-72-0  | 49   |
| 2    |    | .beta.-iso-Methyl ionone            | 206 | C14H22O   | 1000285-40-2 | 42   |
| 3    |    | 2,4,7-Pteridinetriamine, 6-methyl-  | 191 | C7H9N7    | 017539-50-3  | 22   |
| 4    |    | 1H-Isoindole-5-carboxylic acid, ... | 191 | C9H5NO4   | 020262-55-9  | 22   |
| 5    |    | 2-Fluoro-4-(trifluoromethyl)benz... | 226 | C8H3ClF4O | 126917-10-0  | 18   |



Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF061017\  
Data File : BF095860.D  
Acq On : 10 Jun 2017 21:48  
Operator : SJ/MA  
Sample : I3615-01  
Misc :  
ALS Vial : 15 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
HA4-WCA

Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF060517.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

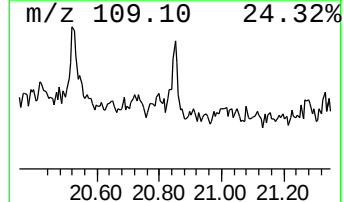
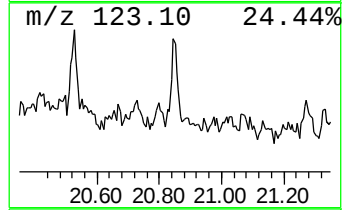
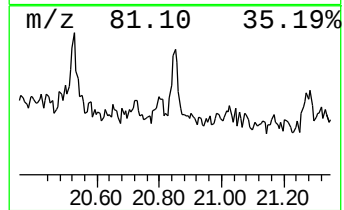
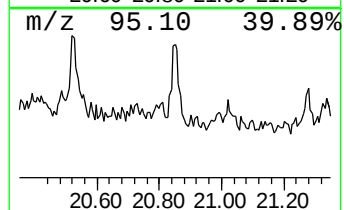
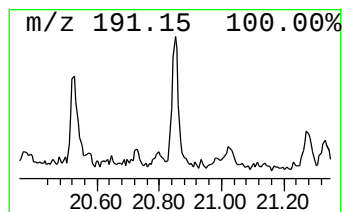
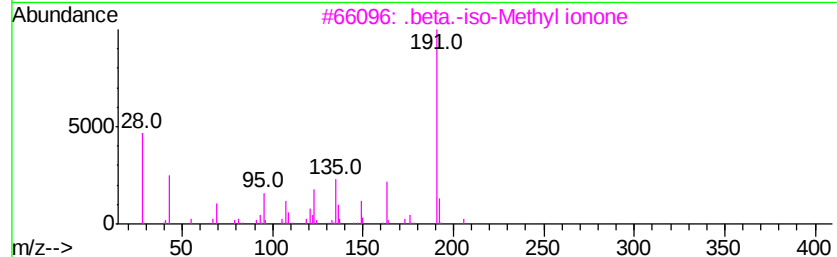
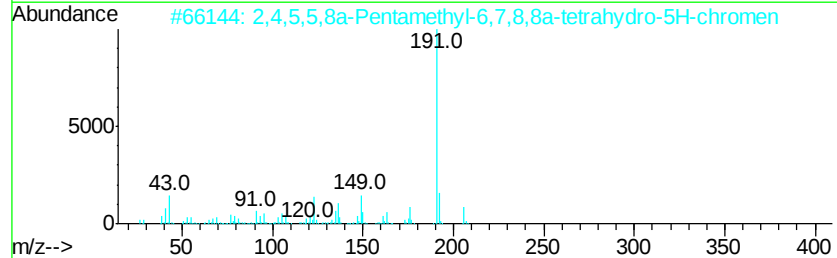
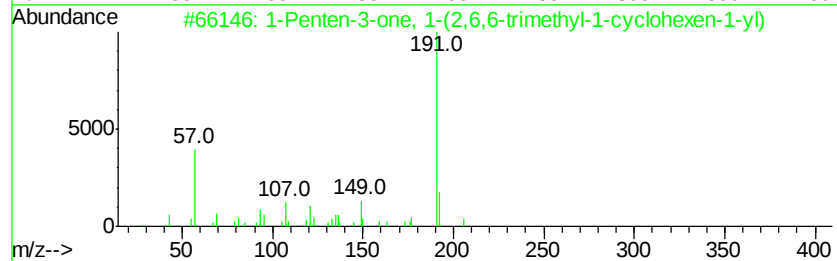
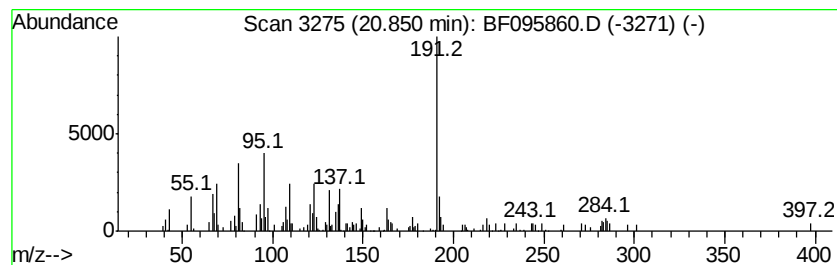
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 16 1-Penten-3-one, 1-(2,6,6-tr... Concentration Rank 7

| R.T.  | EstConc | Area   | Relative to ISTD | R.T.  |
|-------|---------|--------|------------------|-------|
| 20.85 | 7.17 ng | 116333 | Perylene-d12     | 20.00 |

| Hit# | of | Tentative ID                        | MW  | MolForm  | CAS#         | Qual |
|------|----|-------------------------------------|-----|----------|--------------|------|
| 1    | 5  | 1-Penten-3-one, 1-(2,6,6-trimeth... | 206 | C14H22O  | 000127-43-5  | 86   |
| 2    |    | 2,4,5,5,8a-Pentamethyl-6,7,8,8a-... | 206 | C14H22O  | 1000195-40-9 | 46   |
| 3    |    | .beta.-iso-Methyl ionone            | 206 | C14H22O  | 1000285-40-2 | 46   |
| 4    |    | 4H-1,2,4-Triazole, 3-ethyl-5-(3,... | 191 | C9H13N5  | 328532-29-2  | 35   |
| 5    |    | Silane, 1,3-decadiynyltrimethyl-    | 206 | C13H22Si | 084751-17-7  | 27   |



Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF061017\  
Data File : BF095860.D  
Acq On : 10 Jun 2017 21:48  
Operator : SJ/MA  
Sample : I3615-01  
Misc :  
ALS Vial : 15 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
HA4-WCA

Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF060517.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

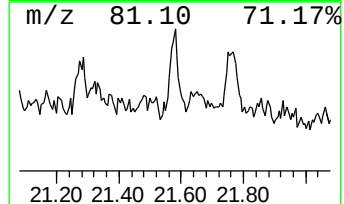
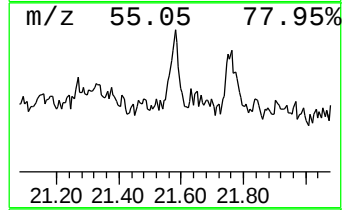
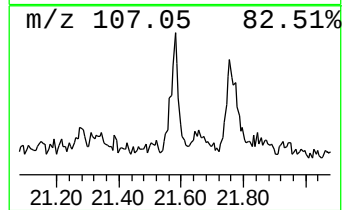
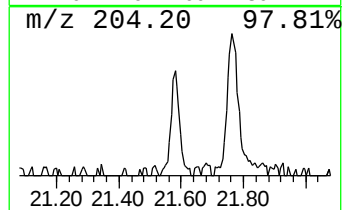
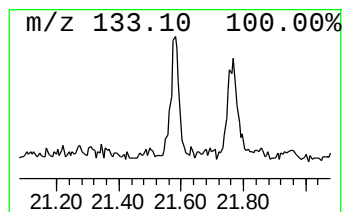
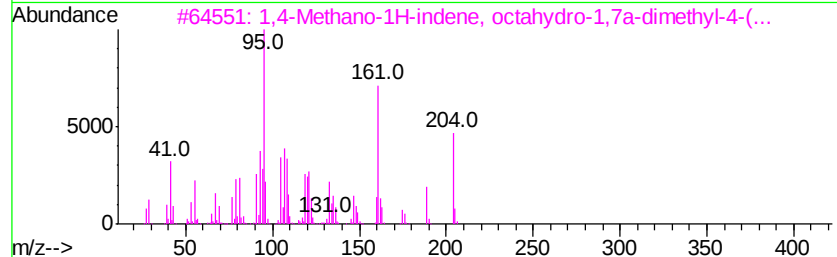
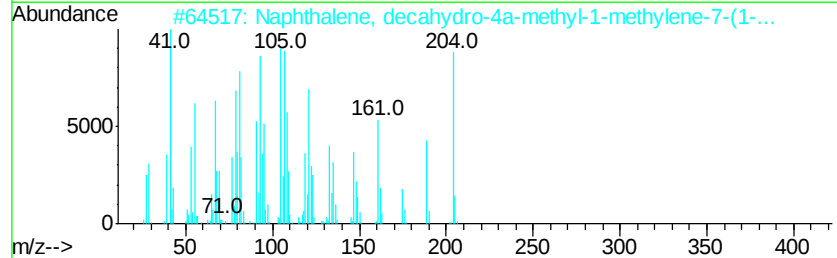
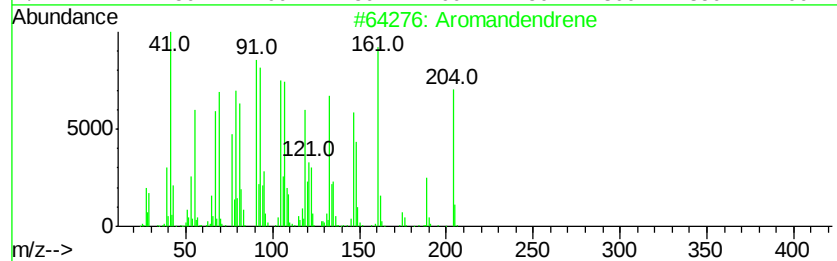
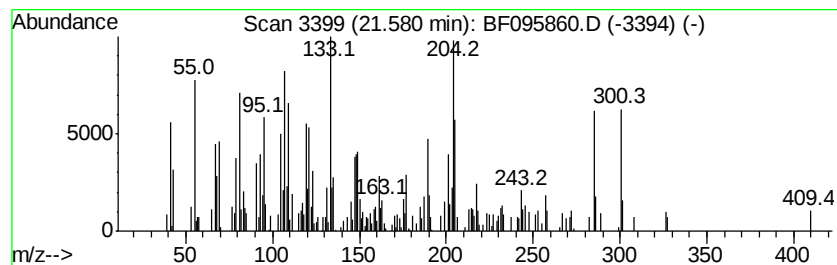
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 17 unknown21.58 Concentration Rank 4

| R.T.  | EstConc  | Area   | Relative to ISTD | R.T.  |
|-------|----------|--------|------------------|-------|
| 21.58 | 14.99 ng | 243213 | Perylene-d12     | 20.00 |

| Hit# | of | Tentative ID                        | MW  | MolForm | CAS#         | Qual |
|------|----|-------------------------------------|-----|---------|--------------|------|
| 1    | 5  | Aromandendrene                      | 204 | C15H24  | 000489-39-4  | 46   |
| 2    |    | Naphthalene, decahydro-4a-methyl... | 204 | C15H24  | 017066-67-0  | 41   |
| 3    |    | 1,4-Methano-1H-indene, octahydro... | 204 | C15H24  | 087064-18-4  | 38   |
| 4    |    | .beta.-Humulene                     | 204 | C15H24  | 000116-04-1  | 35   |
| 5    |    | 2H-Cyclopentacyclooctene, 4,5,6,... | 204 | C15H24  | 1000221-85-8 | 30   |



Data Path : Z:\HPCHEM1\BNA F\DATA\BF061017\  
Data File : BF095860.D  
Acq On : 10 Jun 2017 21:48  
Operator : SJ/MA  
Sample : I3615-01  
Misc :  
ALS Vial : 15 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
HA4-WCA

Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF060517.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

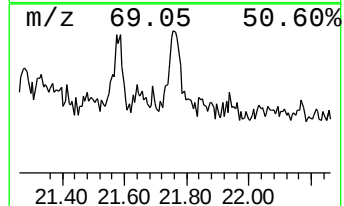
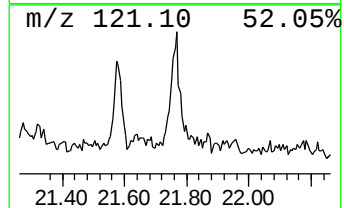
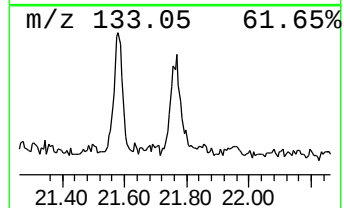
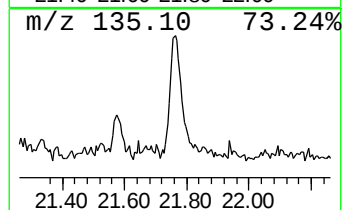
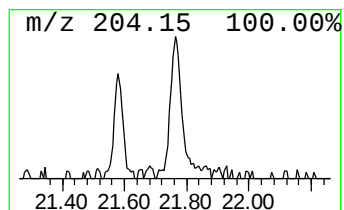
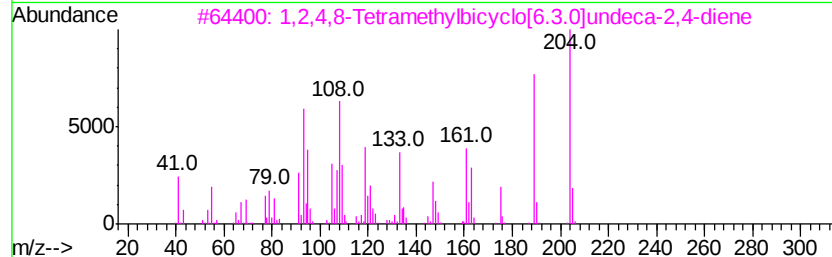
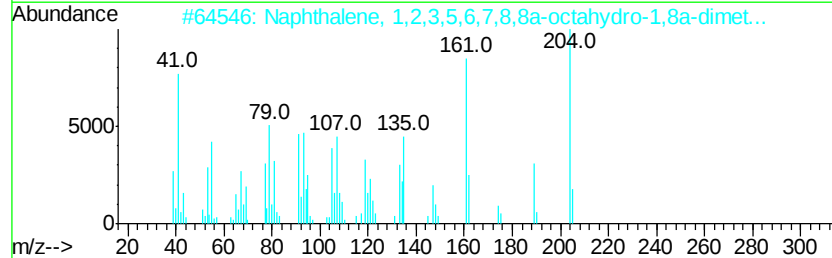
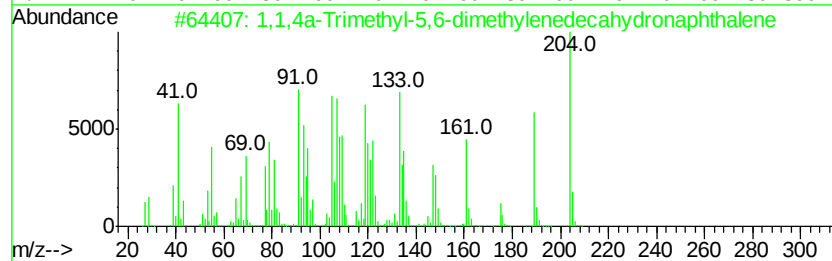
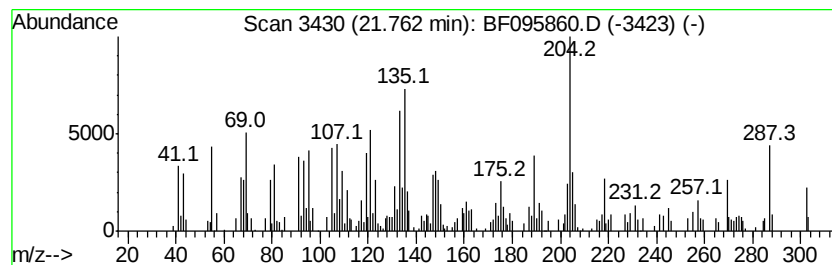
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 18 1,1,4a-Trimethyl-5,6-dimeth... Concentration Rank 3

| R.T.  | EstConc  | Area   | Relative to ISTD | R.T.  |
|-------|----------|--------|------------------|-------|
| 21.76 | 20.00 ng | 324520 | Perylene-d12     | 20.00 |

| Hit# | of | Tentative ID                         | MW  | MolForm  | CAS#         | Qual |
|------|----|--------------------------------------|-----|----------|--------------|------|
| 1    | 5  | 1,1,4a-Trimethyl-5,6-dimethylene...  | 204 | C15H24   | 1000193-60-8 | 60   |
| 2    |    | Naphthalene, 1,2,3,5,6,7,8,8a-oc...  | 204 | C15H24   | 004630-07-3  | 47   |
| 3    |    | 1,2,4,8-Tetramethylbicyclo[6.3.0]... | 204 | C15H24   | 137235-51-9  | 38   |
| 4    |    | Cyclopropene, 1,3-dimethyl-2,3-b...  | 204 | C7H6F6   | 054932-73-9  | 25   |
| 5    |    | 1-Phenanthrenecarboxylic acid, 1...  | 302 | C20H30O2 | 000471-77-2  | 18   |



Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF061017\  
 Data File : BF095860.D  
 Acq On : 10 Jun 2017 21:48  
 Operator : SJ/MA  
 Sample : I3615-01  
 Misc :  
 ALS Vial : 15 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 HA4-WCA

Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF060517.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... | 4.57  | 8.1 ng  |       | 143078   | 1                     | 7.37  | 354229 | 20.0 |
| unknown7.02          | 7.02  | 90.7 ng |       | 1605950  | 1                     | 7.37  | 354229 | 20.0 |
| Naphthalene, 1,3-... | 11.70 | 2.3 ng  |       | 60539    | 3                     | 12.22 | 526152 | 20.0 |
| Anthracene, 2-met... | 15.42 | 2.5 ng  |       | 60395    | 4                     | 14.61 | 482411 | 20.0 |
| Anthracene, 1-met... | 15.46 | 2.5 ng  |       | 60075    | 4                     | 14.61 | 482411 | 20.0 |
| 4H-Cyclopenta[def... | 15.57 | 4.3 ng  |       | 104977   | 4                     | 14.61 | 482411 | 20.0 |
| n-Hexadecanoic acid  | 15.63 | 5.5 ng  |       | 132796   | 4                     | 14.61 | 482411 | 20.0 |
| 10,18-Bisnorabiet... | 16.52 | 2.1 ng  |       | 56933    | 5                     | 18.33 | 535232 | 20.0 |
| 11H-Benzo[a]fluorene | 17.21 | 2.1 ng  |       | 55519    | 5                     | 18.33 | 535232 | 20.0 |
| Pyrene, 2-methyl-    | 17.34 | 3.1 ng  |       | 83310    | 5                     | 18.33 | 535232 | 20.0 |
| Behenic alcohol      | 18.24 | 6.8 ng  |       | 182513   | 5                     | 18.33 | 535232 | 20.0 |
| 1-Heptacosanol       | 19.05 | 3.7 ng  |       | 98267    | 5                     | 18.33 | 535232 | 20.0 |
| unknown20.53         | 20.53 | 10.8 ng |       | 175353   | 6                     | 20.00 | 324458 | 20.0 |
| 1-Penten-3-one, 1... | 20.85 | 7.2 ng  |       | 116333   | 6                     | 20.00 | 324458 | 20.0 |
| unknown21.58         | 21.58 | 15.0 ng |       | 243213   | 6                     | 20.00 | 324458 | 20.0 |
| 1,1,4a-Trimethyl-... | 21.76 | 20.0 ng |       | 324520   | 6                     | 20.00 | 324458 | 20.0 |