

Data Path : Z:\HPCHEM1\BNA F\DATA\BF061017\  
 Data File : BF095855.D  
 Acq On : 10 Jun 2017 19:07  
 Operator : SJ/MA  
 Sample : I3576-03  
 Misc :  
 ALS Vial : 10 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 TP-OGR1-OGR2

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         | 4.575       | 505           | 508         | 524          | rBV      | 41412          | 115213        | 7.19%           | 0.636%        |
| 2         | 5.263       | 621           | 625         | 656          | rBV      | 597371         | 1265675       | 79.00%          | 6.989%        |
| 3         | 6.922       | 904           | 907         | 920          | rBV      | 728133         | 1252898       | 78.21%          | 6.919%        |
| 4         | 7.022       | 920           | 924         | 940          | rVB      | 1015542        | 1514012       | 94.50%          | 8.361%        |
| 5         | 7.369       | 978           | 983         | 995          | rBV      | 251666         | 356146        | 22.23%          | 1.967%        |
| 6         | 7.604       | 1018          | 1023        | 1043         | rBV      | 777058         | 1064472       | 66.44%          | 5.878%        |
| 7         | 8.281       | 1134          | 1138        | 1171         | rBV      | 519645         | 814112        | 50.82%          | 4.496%        |
| 8         | 9.398       | 1324          | 1328        | 1343         | rBV      | 361040         | 498229        | 31.10%          | 2.751%        |
| 9         | 11.180      | 1625          | 1631        | 1645         | rBV      | 1184432        | 1602049       | 100.00%         | 8.847%        |
| 10        | 11.875      | 1744          | 1749        | 1769         | rVB      | 164209         | 236201        | 14.74%          | 1.304%        |
| 11        | 12.222      | 1803          | 1808        | 1813         | rBV2     | 440717         | 558932        | 34.89%          | 3.087%        |
| 12        | 12.269      | 1813          | 1816        | 1824         | rVB2     | 36376          | 57015         | 3.56%           | 0.315%        |
| 13        | 13.080      | 1949          | 1954        | 1958         | rBV2     | 17035          | 21077         | 1.32%           | 0.116%        |
| 14        | 13.121      | 1958          | 1961        | 1972         | rVB      | 31388          | 42078         | 2.63%           | 0.232%        |
| 15        | 13.516      | 2023          | 2028        | 2043         | rBV      | 550087         | 828713        | 51.73%          | 4.576%        |
| 16        | 13.845      | 2080          | 2084        | 2091         | rBV2     | 17038          | 26868         | 1.68%           | 0.148%        |
| 17        | 14.021      | 2108          | 2114        | 2119         | rBV4     | 7817           | 16188         | 1.01%           | 0.089%        |
| 18        | 14.451      | 2184          | 2187        | 2193         | rVB2     | 16463          | 20998         | 1.31%           | 0.116%        |
| 19        | 14.616      | 2210          | 2215        | 2218         | rBV      | 453096         | 570065        | 35.58%          | 3.148%        |
| 20        | 14.651      | 2218          | 2221        | 2232         | rVB      | 387879         | 507358        | 31.67%          | 2.802%        |
| 21        | 14.745      | 2232          | 2237        | 2250         | rVB      | 77188          | 110710        | 6.91%           | 0.611%        |
| 22        | 15.057      | 2287          | 2290        | 2298         | rBV      | 16067          | 25822         | 1.61%           | 0.143%        |
| 23        | 15.421      | 2348          | 2352        | 2356         | rBV      | 71246          | 73221         | 4.57%           | 0.404%        |
| 24        | 15.463      | 2356          | 2359        | 2367         | rVB      | 75763          | 89093         | 5.56%           | 0.492%        |
| 25        | 15.539      | 2367          | 2372        | 2374         | rBV      | 25261          | 29606         | 1.85%           | 0.163%        |
| 26        | 15.568      | 2374          | 2377        | 2382         | rVV3     | 73254          | 114219        | 7.13%           | 0.631%        |
| 27        | 15.621      | 2382          | 2386        | 2398         | rVB3     | 46765          | 98907         | 6.17%           | 0.546%        |
| 28        | 15.874      | 2422          | 2429        | 2435         | rBV      | 37044          | 46733         | 2.92%           | 0.258%        |
| 29        | 15.939      | 2437          | 2440        | 2450         | rVB2     | 28192          | 46374         | 2.89%           | 0.256%        |
| 30        | 16.133      | 2470          | 2473        | 2477         | rBV      | 15826          | 18482         | 1.15%           | 0.102%        |
| 31        | 16.233      | 2484          | 2490        | 2493         | rBV      | 38775          | 46556         | 2.91%           | 0.257%        |
| 32        | 16.274      | 2493          | 2497        | 2501         | rVV3     | 19677          | 29160         | 1.82%           | 0.161%        |
| 33        | 16.357      | 2506          | 2511        | 2517         | rVB4     | 27181          | 41871         | 2.61%           | 0.231%        |
| 34        | 16.433      | 2519          | 2524        | 2530         | rBV      | 513227         | 615624        | 38.43%          | 3.400%        |

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 ClientSampleId :  
 TP-OGR1-OGR2

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

|    |        |      |      |      |      |         |         |        |        |
|----|--------|------|------|------|------|---------|---------|--------|--------|
| 35 | 16.539 | 2538 | 2542 | 2546 | rBV5 | 12237   | 16999   | 1.06%  | 0.094% |
| 36 | 16.633 | 2553 | 2558 | 2562 | rBV  | 17643   | 22554   | 1.41%  | 0.125% |
| 37 | 16.733 | 2571 | 2575 | 2582 | rBV  | 579427  | 669784  | 41.81% | 3.699% |
| 38 | 16.833 | 2586 | 2592 | 2595 | rBV2 | 13331   | 19930   | 1.24%  | 0.110% |
| 39 | 16.933 | 2605 | 2609 | 2613 | rBV  | 25904   | 32429   | 2.02%  | 0.179% |
| 40 | 16.992 | 2613 | 2619 | 2622 | rVV  | 1233211 | 1480589 | 92.42% | 8.176% |
| 41 | 17.068 | 2625 | 2632 | 2638 | rBV3 | 31255   | 57800   | 3.61%  | 0.319% |
| 42 | 17.174 | 2646 | 2650 | 2653 | rBV3 | 25247   | 41670   | 2.60%  | 0.230% |
| 43 | 17.209 | 2653 | 2656 | 2661 | rVB2 | 56404   | 68400   | 4.27%  | 0.378% |
| 44 | 17.298 | 2666 | 2671 | 2675 | rVB  | 36474   | 42598   | 2.66%  | 0.235% |
| 45 | 17.339 | 2675 | 2678 | 2687 | rBV2 | 50961   | 94908   | 5.92%  | 0.524% |
| 46 | 17.456 | 2693 | 2698 | 2702 | rVB2 | 25449   | 33948   | 2.12%  | 0.187% |
| 47 | 17.498 | 2702 | 2705 | 2709 | rBV  | 20781   | 24091   | 1.50%  | 0.133% |
| 48 | 17.780 | 2746 | 2753 | 2758 | rVB6 | 13586   | 24312   | 1.52%  | 0.134% |
| 49 | 17.904 | 2769 | 2774 | 2781 | rVB2 | 27786   | 41763   | 2.61%  | 0.231% |
| 50 | 18.015 | 2789 | 2793 | 2795 | rBV  | 23591   | 29292   | 1.83%  | 0.162% |
| 51 | 18.039 | 2795 | 2797 | 2801 | rVV2 | 38177   | 46780   | 2.92%  | 0.258% |
| 52 | 18.074 | 2801 | 2803 | 2807 | rVV  | 20981   | 24593   | 1.54%  | 0.136% |
| 53 | 18.115 | 2807 | 2810 | 2815 | rVB3 | 19232   | 21280   | 1.33%  | 0.118% |
| 54 | 18.174 | 2817 | 2820 | 2827 | rBV  | 29114   | 31135   | 1.94%  | 0.172% |
| 55 | 18.245 | 2827 | 2832 | 2840 | rBV2 | 76290   | 122215  | 7.63%  | 0.675% |
| 56 | 18.327 | 2840 | 2846 | 2850 | rVV2 | 505344  | 718233  | 44.83% | 3.966% |
| 57 | 18.362 | 2850 | 2852 | 2865 | rVB2 | 145933  | 225372  | 14.07% | 1.245% |
| 58 | 18.462 | 2865 | 2869 | 2873 | rBV2 | 32457   | 38878   | 2.43%  | 0.215% |
| 59 | 18.627 | 2892 | 2897 | 2900 | rBV2 | 12287   | 17595   | 1.10%  | 0.097% |
| 60 | 18.668 | 2900 | 2904 | 2910 | rVB7 | 17661   | 29869   | 1.86%  | 0.165% |
| 61 | 18.845 | 2928 | 2934 | 2938 | rBV  | 33170   | 45663   | 2.85%  | 0.252% |
| 62 | 18.886 | 2938 | 2941 | 2945 | rVB3 | 21398   | 23645   | 1.48%  | 0.131% |
| 63 | 18.951 | 2949 | 2952 | 2956 | rBV4 | 13824   | 20187   | 1.26%  | 0.111% |
| 64 | 19.368 | 3019 | 3023 | 3028 | rBV  | 55873   | 60414   | 3.77%  | 0.334% |
| 65 | 19.603 | 3059 | 3063 | 3066 | rBV  | 133975  | 187926  | 11.73% | 1.038% |
| 66 | 19.715 | 3079 | 3082 | 3087 | rBV  | 23390   | 29201   | 1.82%  | 0.161% |
| 67 | 19.839 | 3100 | 3103 | 3108 | rVB7 | 14826   | 24603   | 1.54%  | 0.136% |
| 68 | 19.892 | 3108 | 3112 | 3118 | rBV  | 84125   | 94527   | 5.90%  | 0.522% |
| 69 | 19.950 | 3118 | 3122 | 3126 | rBV  | 128432  | 136656  | 8.53%  | 0.755% |
| 70 | 19.998 | 3126 | 3130 | 3141 | rBV  | 296086  | 401461  | 25.06% | 2.217% |
| 71 | 20.486 | 3209 | 3213 | 3217 | rBV5 | 13692   | 22083   | 1.38%  | 0.122% |

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ClientSampleId :  
TP-OGR1-OGR2

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 | 20.903 | 3280 | 3284 | 3291 | rVB8 | 10616 | 17427 | 1.09% | 0.096% |
| 73 | 21.027 | 3301 | 3305 | 3309 | rBV2 | 9906  | 16256 | 1.01% | 0.090% |
| 74 | 21.186 | 3326 | 3332 | 3339 | rBV2 | 52692 | 98960 | 6.18% | 0.546% |
| 75 | 21.250 | 3339 | 3343 | 3348 | rVB6 | 10755 | 18936 | 1.18% | 0.105% |
| 76 | 21.321 | 3350 | 3355 | 3359 | rBV2 | 15281 | 25710 | 1.60% | 0.142% |
| 77 | 21.362 | 3359 | 3362 | 3368 | rVB6 | 12384 | 21777 | 1.36% | 0.120% |
| 78 | 21.521 | 3384 | 3389 | 3399 | rBV  | 39253 | 79777 | 4.98% | 0.441% |
| 79 | 21.739 | 3421 | 3426 | 3432 | rBV2 | 16499 | 26274 | 1.64% | 0.145% |
| 80 | 23.238 | 3674 | 3681 | 3684 | rBV7 | 10132 | 25343 | 1.58% | 0.140% |

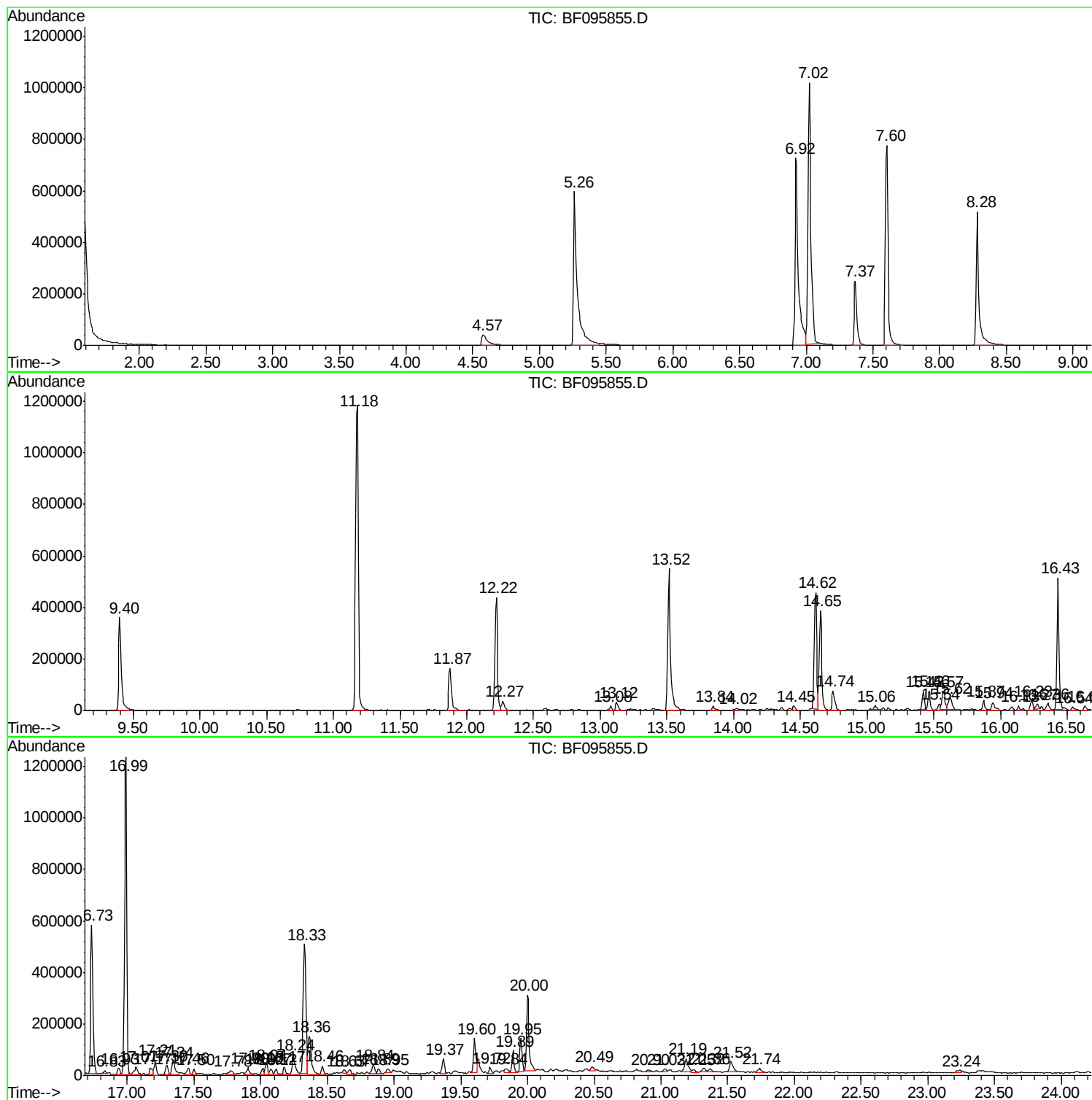
Sum of corrected areas: 18108520

Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF061017\  
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Acq On : 10 Jun 2017 19:07  
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Sample : I3576-03  
Misc :  
ALS Vial : 10 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
TP-OGR1-OGR2

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



Data Path : Z:\HPCHEM1\BNA F\DATA\BF061017\  
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Sample : I3576-03  
Misc :  
ALS Vial : 10 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
TP-OGR1-OGR2

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

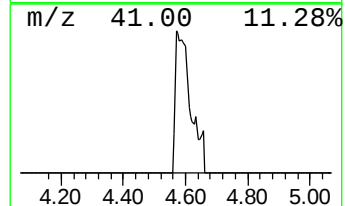
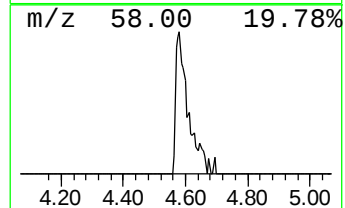
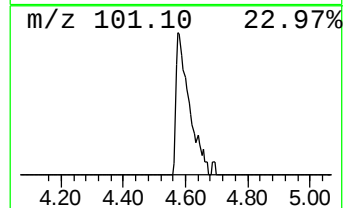
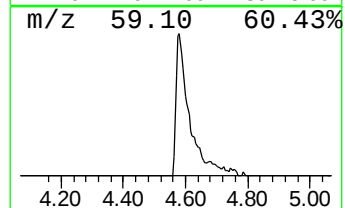
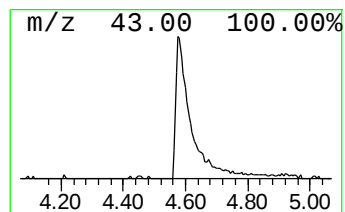
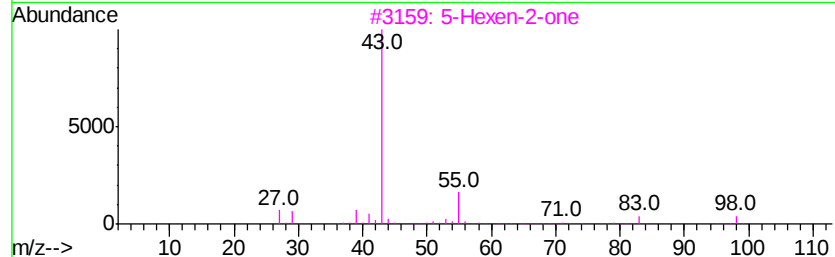
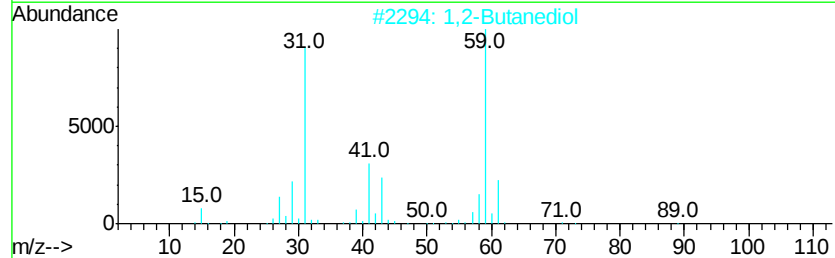
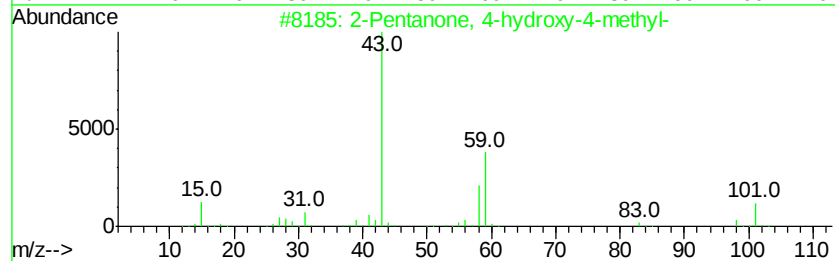
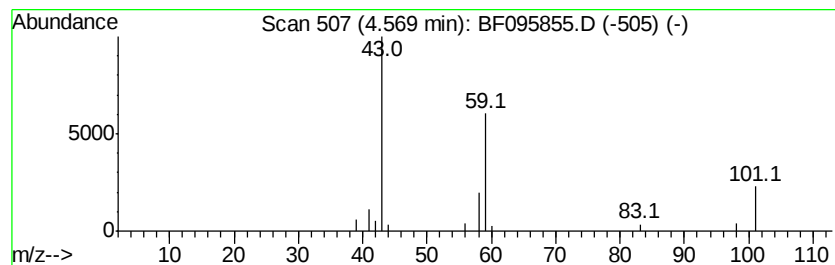
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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

| R.T. | EstConc | Area   | Relative to ISTD       | R.T. |
|------|---------|--------|------------------------|------|
| 4.57 | 6.47 ng | 115213 | 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         | 1,2-Butanediol                   | 90  | C4H10O2 | 000584-03-2 | 37   |
| 3         | 5-Hexen-2-one                    | 98  | C6H10O  | 000109-49-9 | 9    |
| 4         | Acetone                          | 58  | C3H6O   | 000067-64-1 | 9    |
| 5         | 2-Propanone, 1-(1-methylethoxy)- | 116 | C6H12O2 | 042781-12-4 | 9    |



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

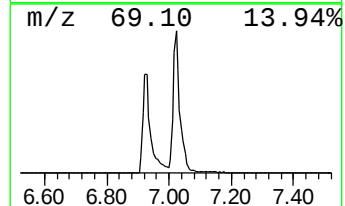
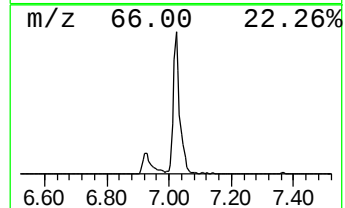
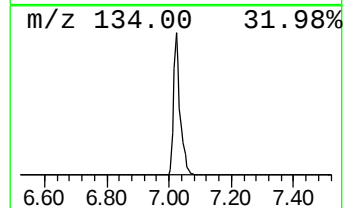
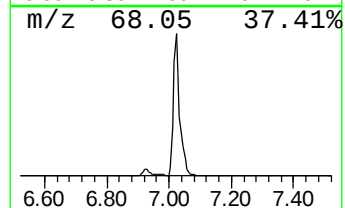
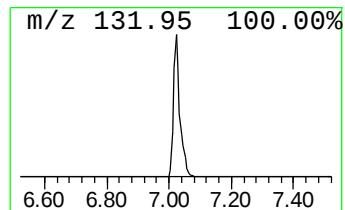
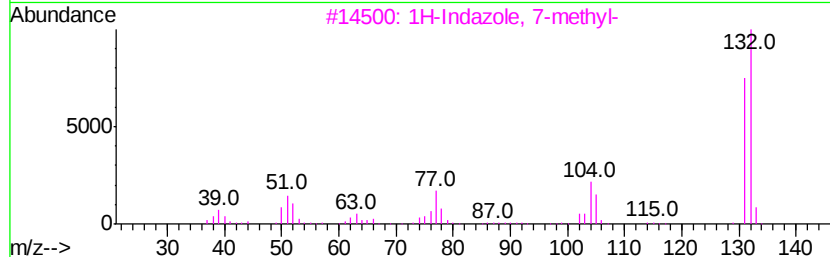
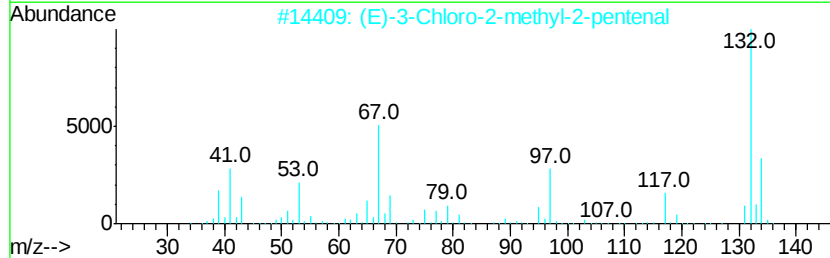
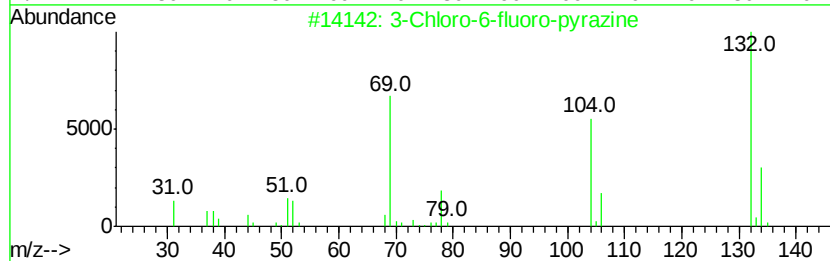
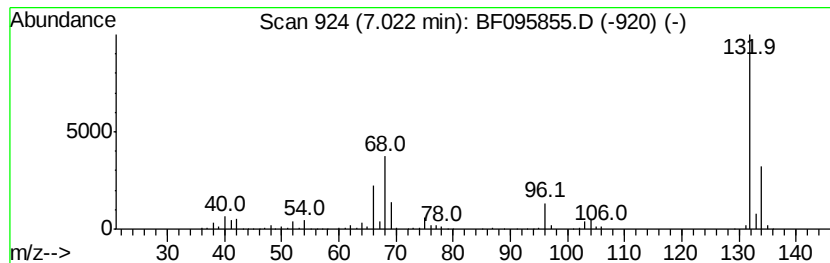
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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

| R.T. | EstConc  | Area    | Relative to ISTD       | R.T. |
|------|----------|---------|------------------------|------|
| 7.02 | 85.02 ng | 1514010 | 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 | 38   |
| 2    |    | (E)-3-Chloro-2-methyl-2-pentenal | 132 | C6H9ClO   | 031357-76-3  | 25   |
| 3    |    | 1H-Indazole, 7-methyl-           | 132 | C8H8N2    | 1000316-00-7 | 10   |
| 4    |    | 1H-Benzimidazole, 2-methyl-      | 132 | C8H8N2    | 000615-15-6  | 10   |
| 5    |    | 4-Chloro-6-fluoro-pyrimidine     | 132 | C4H2ClFN2 | 051422-01-6  | 9    |



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

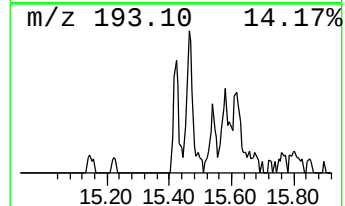
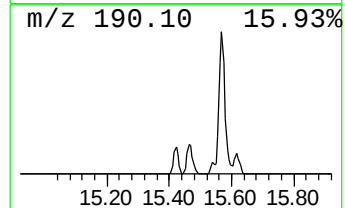
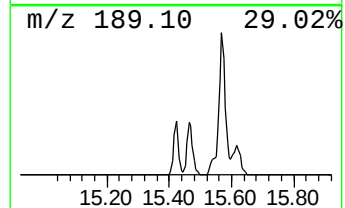
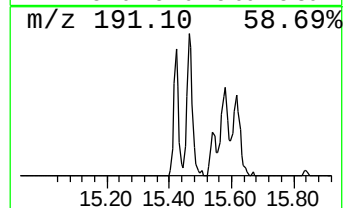
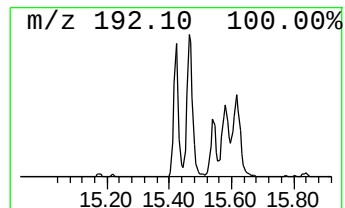
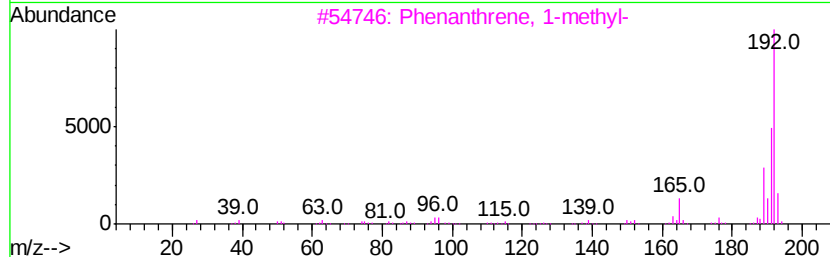
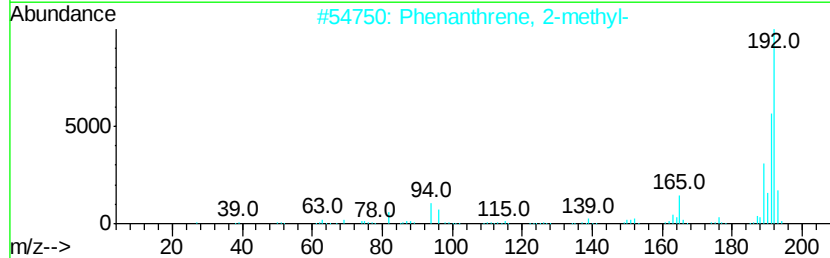
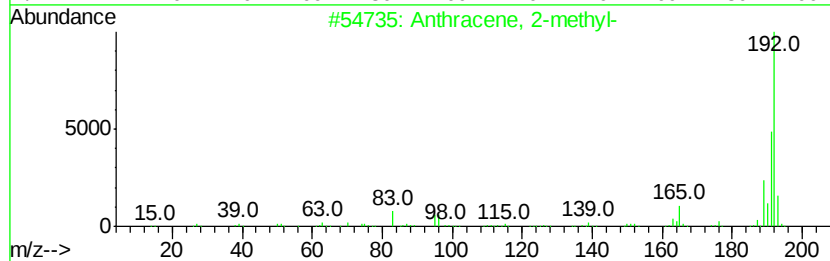
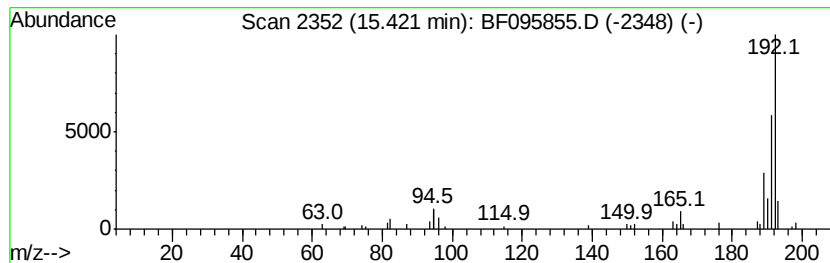
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 4 Anthracene, 2-methyl- Concentration Rank 11

| R.T.  | EstConc | Area  | Relative to ISTD | R.T.  |
|-------|---------|-------|------------------|-------|
| 15.42 | 2.57 ng | 73221 | Phenanthrene-d10 | 14.62 |

| Hit# | of | Tentative ID            | MW  | MolForm | CAS#        | Qual |
|------|----|-------------------------|-----|---------|-------------|------|
| 1    | 5  | Anthracene, 2-methyl-   | 192 | C15H12  | 000613-12-7 | 96   |
| 2    |    | Phenanthrene, 2-methyl- | 192 | C15H12  | 002531-84-2 | 94   |
| 3    |    | Phenanthrene, 1-methyl- | 192 | C15H12  | 000832-69-9 | 94   |
| 4    |    | Anthracene, 1-methyl-   | 192 | C15H12  | 000610-48-0 | 92   |
| 5    |    | Anthracene, 9-methyl-   | 192 | C15H12  | 000779-02-2 | 90   |



Data Path : Z:\HPCHEM1\BNA F\DATA\BF061017\  
Data File : BF095855.D  
Acq On : 10 Jun 2017 19:07  
Operator : SJ/MA  
Sample : I3576-03  
Misc :  
ALS Vial : 10 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
TP-OGR1-OGR2

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

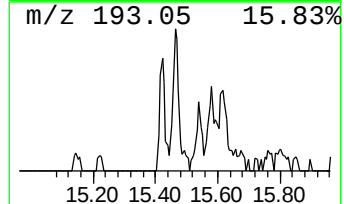
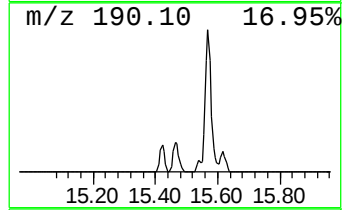
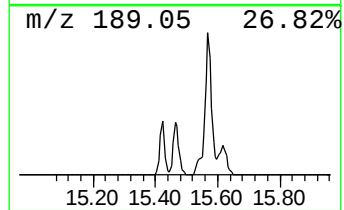
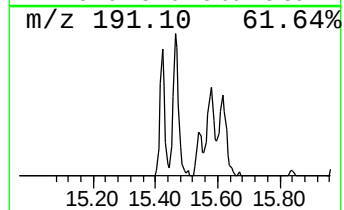
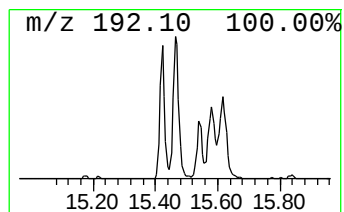
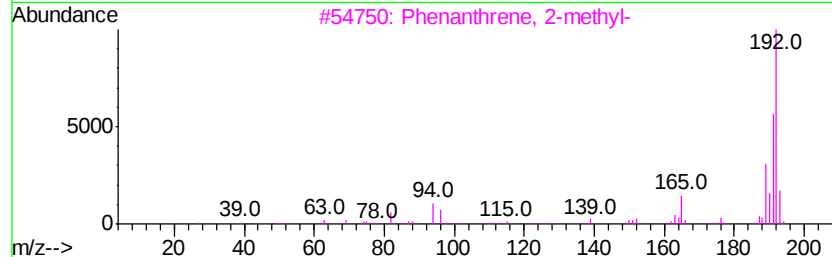
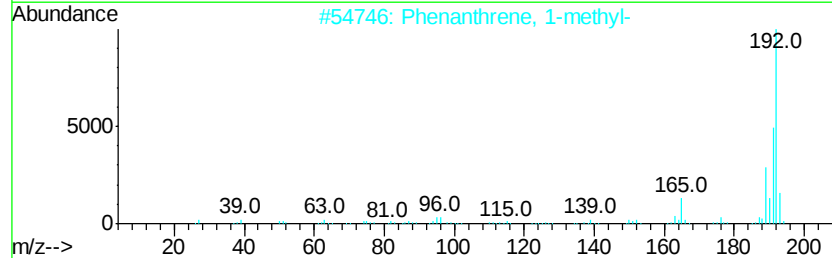
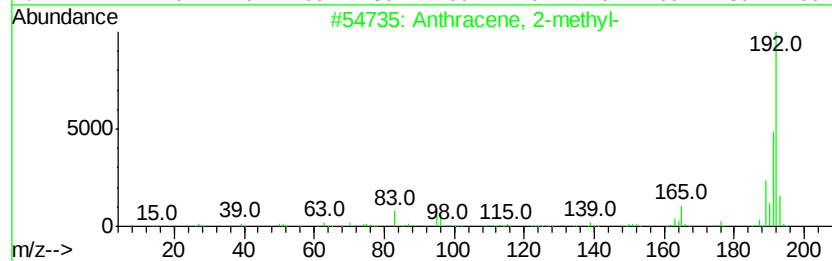
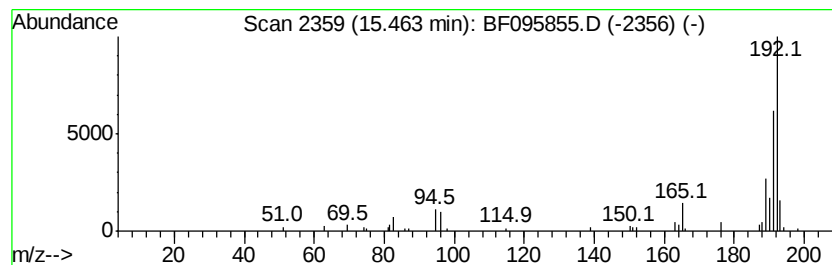
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TIC Integration Parameters: LSCINT.P

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Peak Number 5 Phenanthrene, 1-methyl- Concentration Rank 8

| R.T.  | EstConc | Area  | Relative to ISTD | R.T.  |
|-------|---------|-------|------------------|-------|
| 15.46 | 3.13 ng | 89093 | Phenanthrene-d10 | 14.62 |

| Hit# | of | Tentative ID                          | MW  | MolForm | CAS#        | Qual |
|------|----|---------------------------------------|-----|---------|-------------|------|
| 1    | 5  | Anthracene, 2-methyl-                 | 192 | C15H12  | 000613-12-7 | 96   |
| 2    |    | Phenanthrene, 1-methyl-               | 192 | C15H12  | 000832-69-9 | 96   |
| 3    |    | Phenanthrene, 2-methyl-               | 192 | C15H12  | 002531-84-2 | 95   |
| 4    |    | Anthracene, 9-methyl-                 | 192 | C15H12  | 000779-02-2 | 94   |
| 5    |    | 1H-Cyclopropa[1]phenanthrene, 1a, ... | 192 | C15H12  | 000949-41-7 | 94   |



Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF061017\  
Data File : BF095855.D  
Acq On : 10 Jun 2017 19:07  
Operator : SJ/MA  
Sample : I3576-03  
Misc :  
ALS Vial : 10 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
TP-OGR1-OGR2

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

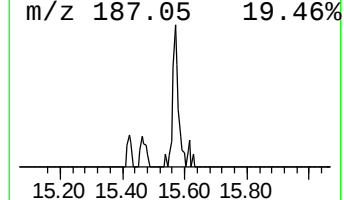
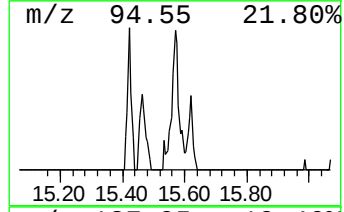
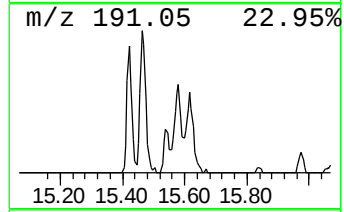
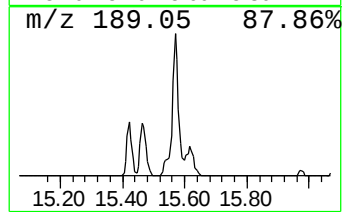
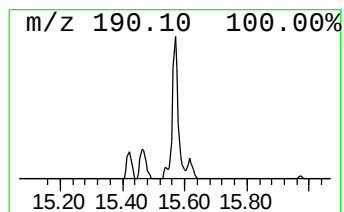
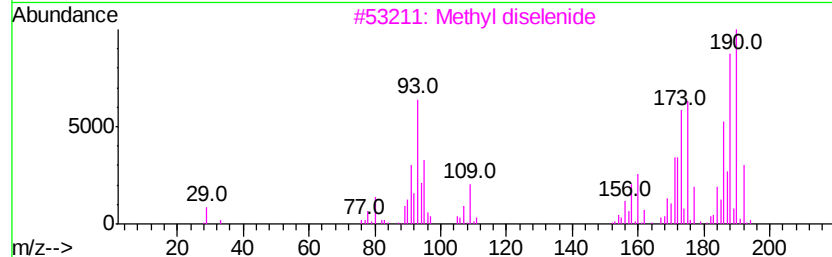
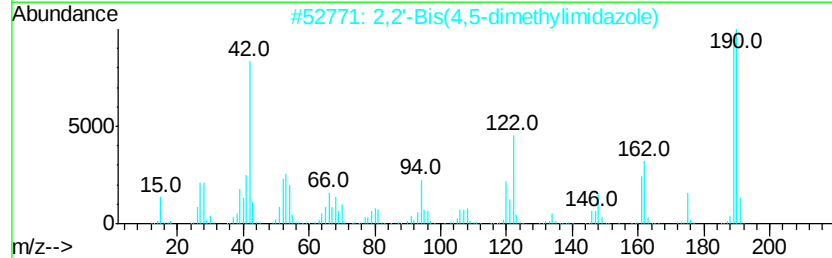
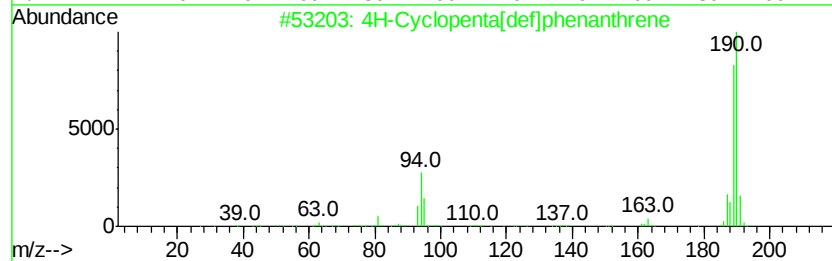
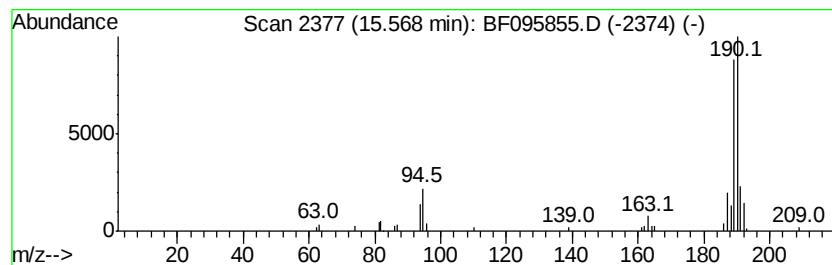
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 6 4H-Cyclopenta[def]phenanthrene Concentration Rank 5

| R.T.  | EstConc | Area   | Relative to ISTD | R.T.  |
|-------|---------|--------|------------------|-------|
| 15.57 | 4.01 ng | 114219 | Phenanthrene-d10 | 14.62 |

| Hit# | of | Tentative ID                        | MW  | MolForm  | CAS#        | Qual |
|------|----|-------------------------------------|-----|----------|-------------|------|
| 1    | 5  | 4H-Cyclopenta[def]phenanthrene      | 190 | C15H10   | 000203-64-5 | 90   |
| 2    |    | 2,2'-Bis(4,5-dimethylimidazole)     | 190 | C10H14N4 | 069286-06-2 | 45   |
| 3    |    | Methyl diselenide                   | 190 | C2H6Se2  | 007101-31-7 | 43   |
| 4    |    | 6,7-Methylenedioxy-4(3H)-quinazo... | 190 | C9H6N2O3 | 028310-11-4 | 36   |
| 5    |    | 6H-Cyclobuta[jk]phenanthrene        | 190 | C15H10   | 083469-43-6 | 36   |



Data Path : Z:\HPCHEM1\BNA F\DATA\BF061017\  
Data File : BF095855.D  
Acq On : 10 Jun 2017 19:07  
Operator : SJ/MA  
Sample : I3576-03  
Misc :  
ALS Vial : 10 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
TP-OGR1-OGR2

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

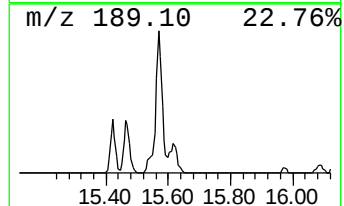
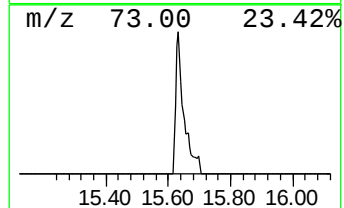
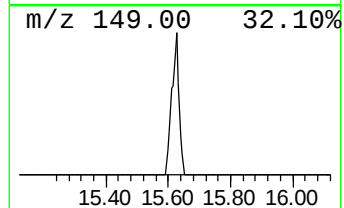
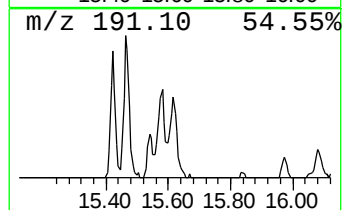
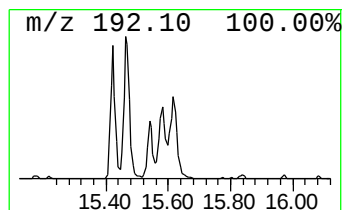
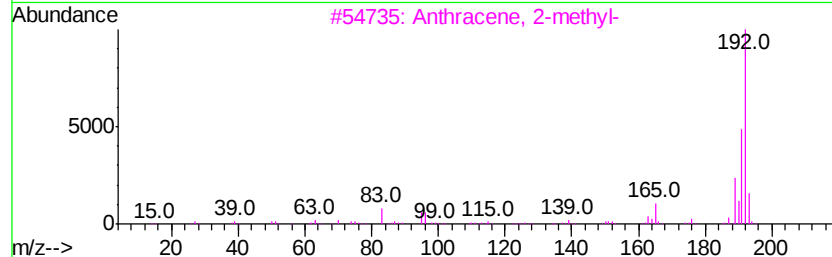
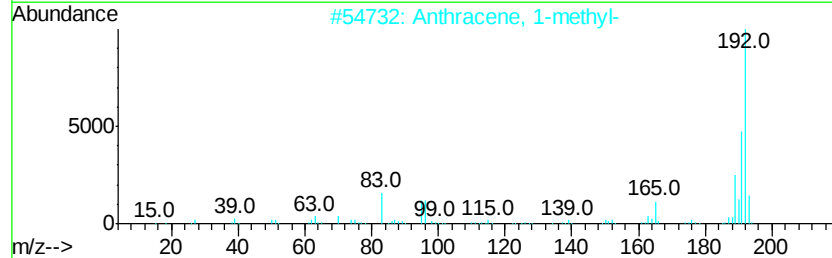
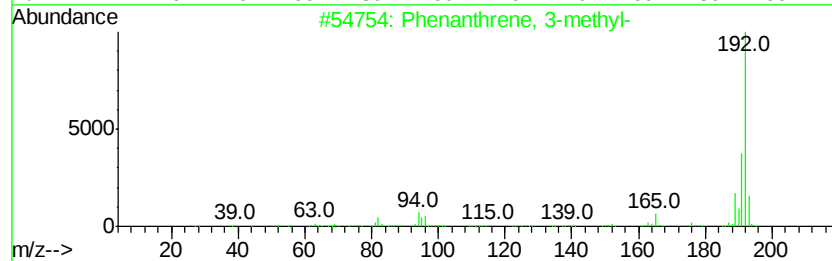
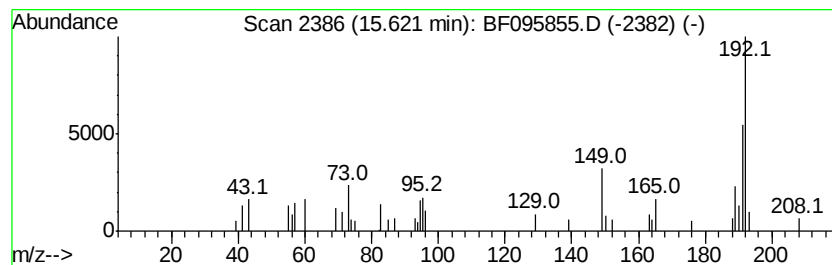
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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

| R.T.  | EstConc | Area  | Relative to ISTD | R.T.  |
|-------|---------|-------|------------------|-------|
| 15.62 | 3.47 ng | 98907 | Phenanthrene-d10 | 14.62 |

| Hit# of | 5 | Tentative ID                        | MW  | MolForm  | CAS#        | Qual |
|---------|---|-------------------------------------|-----|----------|-------------|------|
| 1       |   | Phenanthrene, 3-methyl-             | 192 | C15H12   | 000832-71-3 | 55   |
| 2       |   | Anthracene, 1-methyl-               | 192 | C15H12   | 000610-48-0 | 55   |
| 3       |   | Anthracene, 2-methyl-               | 192 | C15H12   | 000613-12-7 | 49   |
| 4       |   | Anthracene, 9-methyl-               | 192 | C15H12   | 000779-02-2 | 47   |
| 5       |   | 3,5 (4H,8H)-Dihydro-8-thia-1,3-d... | 192 | C9H8N2OS | 014346-25-9 | 46   |



Data Path : Z:\HPCHEM1\BNA F\DATA\BF061017\  
Data File : BF095855.D  
Acq On : 10 Jun 2017 19:07  
Operator : SJ/MA  
Sample : I3576-03  
Misc :  
ALS Vial : 10 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
TP-OGR1-OGR2

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

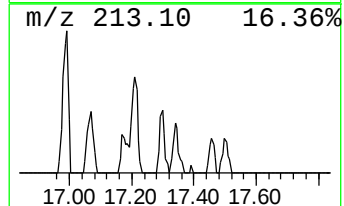
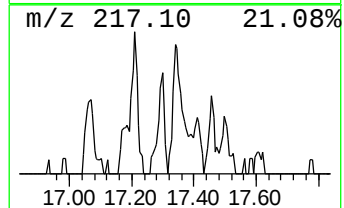
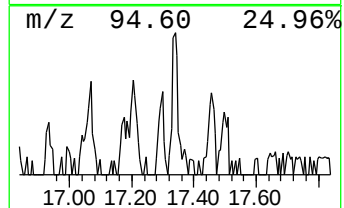
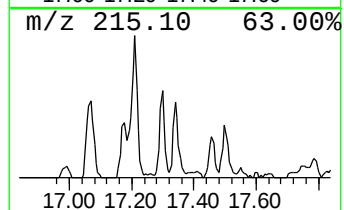
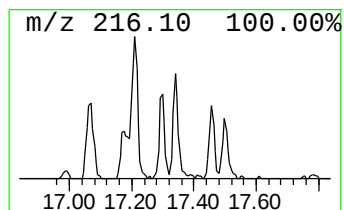
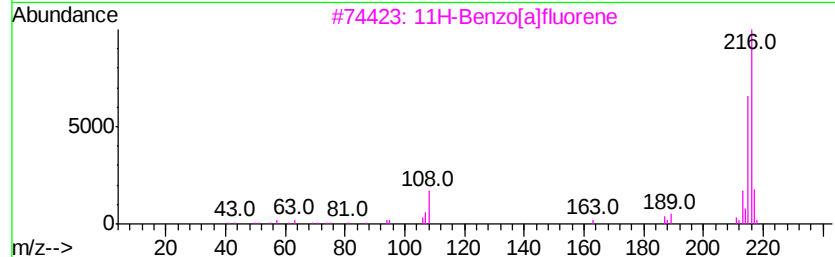
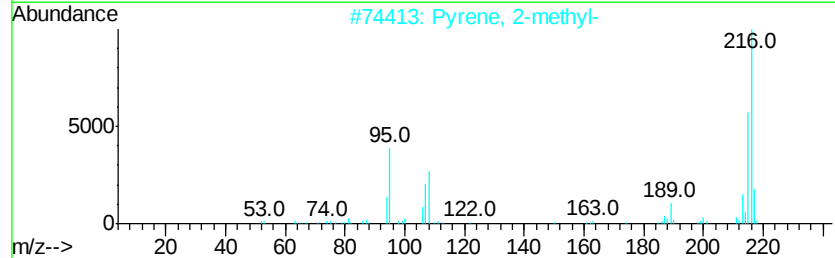
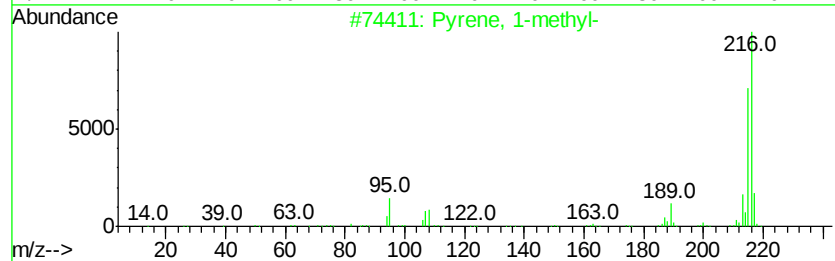
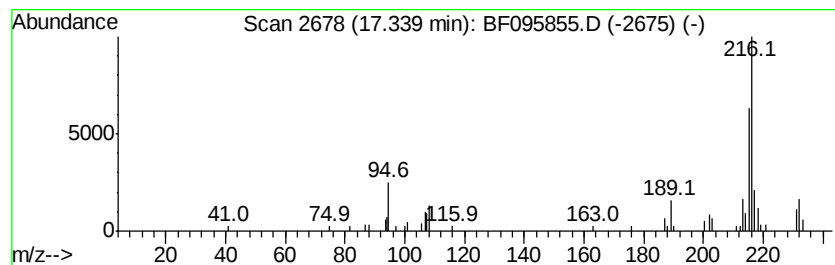
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 8 Pyrene, 1-methyl- Concentration Rank 10

| R.T.  | EstConc | Area  | Relative to ISTD | R.T.  |
|-------|---------|-------|------------------|-------|
| 17.34 | 2.64 ng | 94908 | Chrysene-d12     | 18.33 |

| Hit# | of | Tentative ID            | MW  | MolForm | CAS#        | Qual |
|------|----|-------------------------|-----|---------|-------------|------|
| 1    | 5  | Pyrene, 1-methyl-       | 216 | C17H12  | 002381-21-7 | 89   |
| 2    |    | Pyrene, 2-methyl-       | 216 | C17H12  | 003442-78-2 | 81   |
| 3    |    | 11H-Benzo[a]fluorene    | 216 | C17H12  | 000238-84-6 | 70   |
| 4    |    | 11H-Benzo[b]fluorene    | 216 | C17H12  | 000243-17-4 | 64   |
| 5    |    | Fluoranthene, 2-methyl- | 216 | C17H12  | 033543-31-6 | 64   |



Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF061017\  
Data File : BF095855.D  
Acq On : 10 Jun 2017 19:07  
Operator : SJ/MA  
Sample : I3576-03  
Misc :  
ALS Vial : 10 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
TP-OGR1-OGR2

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

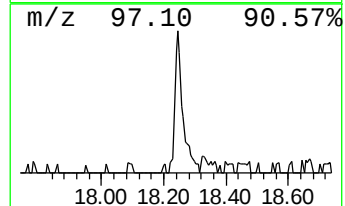
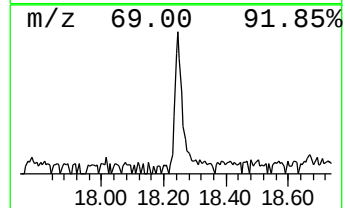
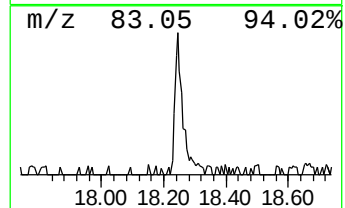
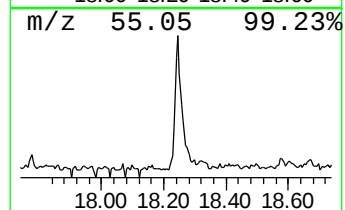
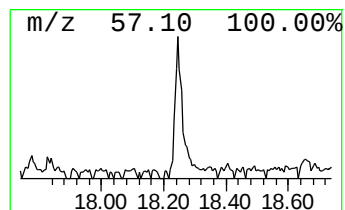
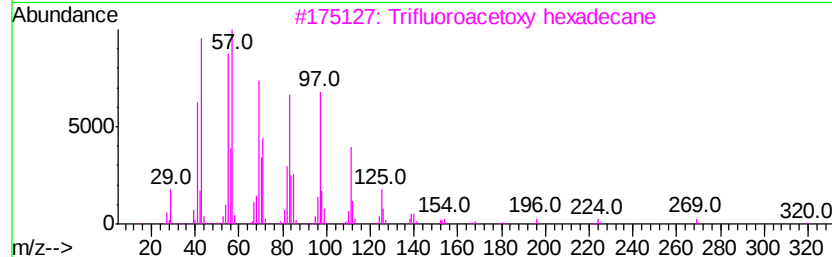
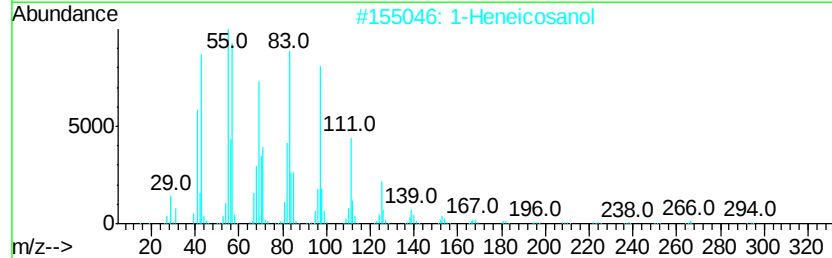
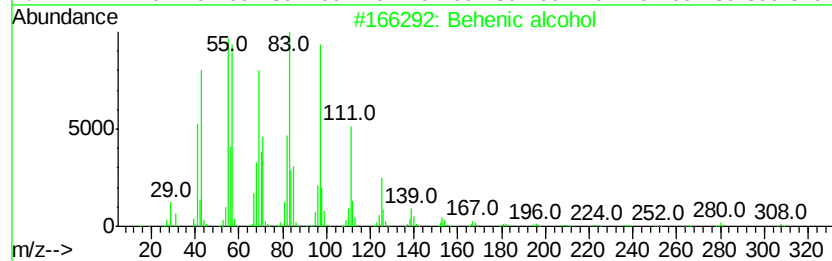
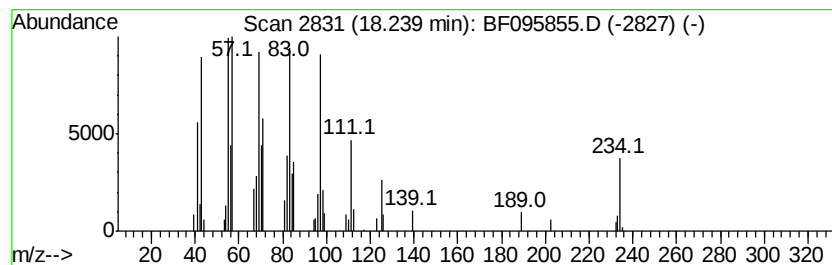
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 9 Behenic alcohol Concentration Rank 7

| R.T.  | EstConc | Area   | Relative to ISTD | R.T.  |
|-------|---------|--------|------------------|-------|
| 18.24 | 3.40 ng | 122215 | Chrysene-d12     | 18.33 |

| Hit# of | 5 | Tentative ID                | MW  | MolForm    | CAS#        | Qual |
|---------|---|-----------------------------|-----|------------|-------------|------|
| 1       |   | 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 | 94   |
| 4       |   | n-Nonadecanol-1             | 284 | C19H40O    | 001454-84-8 | 91   |
| 5       |   | n-Tetracosanol-1            | 354 | C24H50O    | 000506-51-4 | 91   |



Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF061017\  
Data File : BF095855.D  
Acq On : 10 Jun 2017 19:07  
Operator : SJ/MA  
Sample : I3576-03  
Misc :  
ALS Vial : 10 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
TP-OGR1-OGR2

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

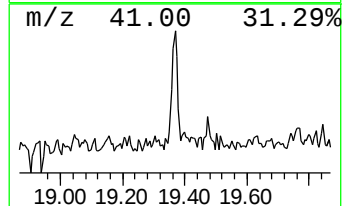
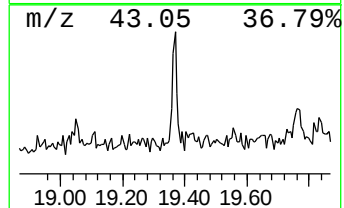
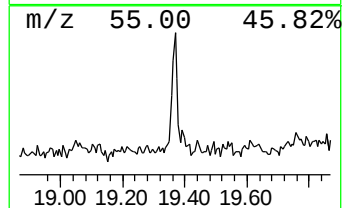
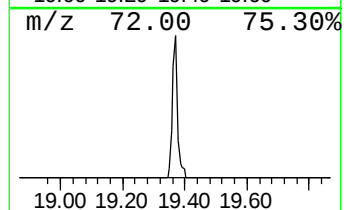
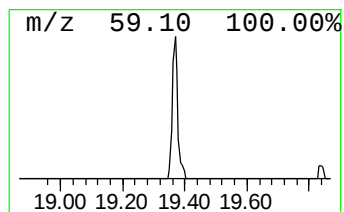
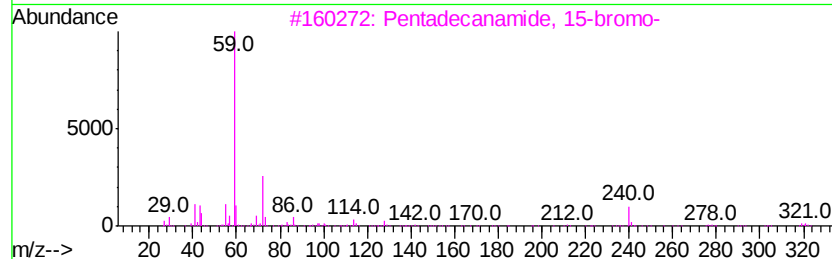
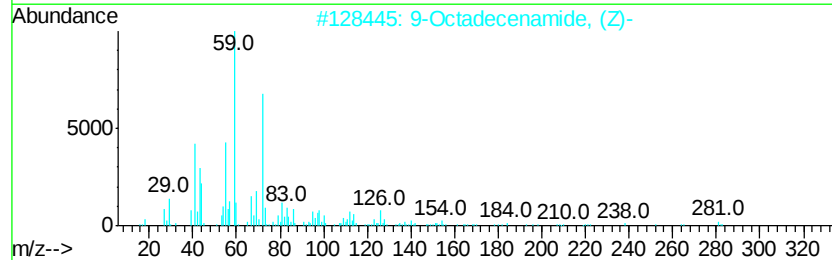
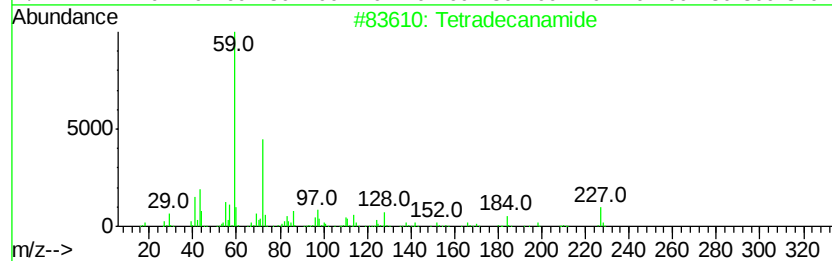
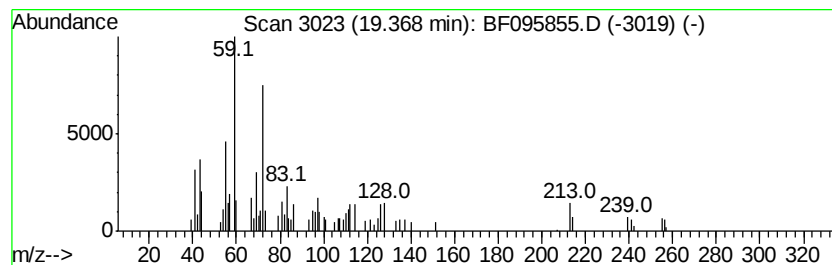
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 10 Tetradecanamide Concentration Rank 9

| R.T.  | EstConc | Area  | Relative to ISTD | R.T.  |
|-------|---------|-------|------------------|-------|
| 19.37 | 3.01 ng | 60414 | Perylene-d12     | 20.00 |

| Hit# | of | 5 | Tentative ID               | MW  | MolForm    | CAS#         | Qual |
|------|----|---|----------------------------|-----|------------|--------------|------|
| 1    |    |   | Tetradecanamide            | 227 | C14H29NO   | 000638-58-4  | 80   |
| 2    |    |   | 9-Octadecenamide, (Z)-     | 281 | C18H35NO   | 000301-02-0  | 72   |
| 3    |    |   | Pentadecanamide, 15-bromo- | 319 | C15H30BrNO | 1000163-86-1 | 59   |
| 4    |    |   | d-Glucosamine              | 179 | C6H13NO5   | 000090-77-7  | 50   |
| 5    |    |   | Dodecanamide               | 199 | C12H25NO   | 001120-16-7  | 47   |



Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF061017\  
Data File : BF095855.D  
Acq On : 10 Jun 2017 19:07  
Operator : SJ/MA  
Sample : I3576-03  
Misc :  
ALS Vial : 10 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
TP-OGR1-OGR2

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  | 6.5 ng  |       | 115213   | 1                     | 7.37  | 356146 | 20.0 |
| unknown7.02          | 7.02  | 85.0 ng |       | 1514010  | 1                     | 7.37  | 356146 | 20.0 |
| Anthracene, 2-met... | 15.42 | 2.6 ng  |       | 73221    | 4                     | 14.62 | 570065 | 20.0 |
| Phenanthrene, 1-m... | 15.46 | 3.1 ng  |       | 89093    | 4                     | 14.62 | 570065 | 20.0 |
| 4H-Cyclopenta[def... | 15.57 | 4.0 ng  |       | 114219   | 4                     | 14.62 | 570065 | 20.0 |
| Phenanthrene, 3-m... | 15.62 | 3.5 ng  |       | 98907    | 4                     | 14.62 | 570065 | 20.0 |
| Pyrene, 1-methyl-    | 17.34 | 2.6 ng  |       | 94908    | 5                     | 18.33 | 718233 | 20.0 |
| Behenic alcohol      | 18.24 | 3.4 ng  |       | 122215   | 5                     | 18.33 | 718233 | 20.0 |
| Tetradecanamide      | 19.37 | 3.0 ng  |       | 60414    | 6                     | 20.00 | 401461 | 20.0 |