

Data Path : Z:\HPCHEM1\BNA F\DATA\BF061017\  
 Data File : BF095859.D  
 Acq On : 10 Jun 2017 21:16  
 Operator : SJ/MA  
 Sample : I3598-05  
 Misc :  
 ALS Vial : 14 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 VNJ-226-COMP

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         | 4.581       | 505           | 509         | 531          | rBV2     | 48609          | 142127        | 8.34%           | 0.658%        |
| 2         | 5.263       | 621           | 625         | 650          | rBV      | 762382         | 1464971       | 85.97%          | 6.782%        |
| 3         | 6.928       | 904           | 908         | 920          | rBV      | 929564         | 1436916       | 84.33%          | 6.652%        |
| 4         | 7.022       | 920           | 924         | 935          | rVB      | 1134258        | 1704014       | 100.00%         | 7.888%        |
| 5         | 7.369       | 979           | 983         | 995          | rBV      | 268899         | 352560        | 20.69%          | 1.632%        |
| 6         | 7.604       | 1018          | 1023        | 1042         | rBV      | 940739         | 1253086       | 73.54%          | 5.801%        |
| 7         | 8.286       | 1134          | 1139        | 1155         | rBV      | 627432         | 914295        | 53.66%          | 4.232%        |
| 8         | 9.398       | 1323          | 1328        | 1330         | rBV      | 435203         | 488458        | 28.67%          | 2.261%        |
| 9         | 9.433       | 1330          | 1334        | 1348         | rVB      | 511530         | 742506        | 43.57%          | 3.437%        |
| 10        | 10.563      | 1522          | 1526        | 1536         | rBV      | 137633         | 180368        | 10.58%          | 0.835%        |
| 11        | 10.716      | 1546          | 1552        | 1559         | rBV      | 75387          | 104853        | 6.15%           | 0.485%        |
| 12        | 11.180      | 1624          | 1631        | 1649         | rVB      | 1255366        | 1599603       | 93.87%          | 7.405%        |
| 13        | 11.339      | 1652          | 1658        | 1665         | rVB      | 28981          | 40726         | 2.39%           | 0.189%        |
| 14        | 11.480      | 1676          | 1682        | 1690         | rBV      | 13855          | 19804         | 1.16%           | 0.092%        |
| 15        | 11.598      | 1696          | 1702        | 1707         | rBV3     | 20274          | 44056         | 2.59%           | 0.204%        |
| 16        | 11.704      | 1714          | 1720        | 1724         | rBV2     | 32632          | 48915         | 2.87%           | 0.226%        |
| 17        | 11.751      | 1724          | 1728        | 1733         | rVB      | 17402          | 23885         | 1.40%           | 0.111%        |
| 18        | 11.874      | 1744          | 1749        | 1761         | rBV      | 185432         | 259466        | 15.23%          | 1.201%        |
| 19        | 12.004      | 1767          | 1771        | 1776         | rBB2     | 18275          | 30675         | 1.80%           | 0.142%        |
| 20        | 12.221      | 1802          | 1808        | 1812         | rBV2     | 437563         | 554801        | 32.56%          | 2.568%        |
| 21        | 12.268      | 1812          | 1816        | 1825         | rVB      | 281499         | 375265        | 22.02%          | 1.737%        |
| 22        | 12.562      | 1862          | 1866        | 1876         | rBV      | 150300         | 204925        | 12.03%          | 0.949%        |
| 23        | 13.074      | 1946          | 1953        | 1955         | rBV3     | 20606          | 28759         | 1.69%           | 0.133%        |
| 24        | 13.109      | 1955          | 1959        | 1968         | rVB      | 301793         | 377670        | 22.16%          | 1.748%        |
| 25        | 13.392      | 2003          | 2007        | 2011         | rBV      | 29033          | 39009         | 2.29%           | 0.181%        |
| 26        | 13.515      | 2024          | 2028        | 2044         | rVB      | 626758         | 922669        | 54.15%          | 4.271%        |
| 27        | 13.745      | 2063          | 2067        | 2076         | rVB      | 27909          | 44447         | 2.61%           | 0.206%        |
| 28        | 13.851      | 2081          | 2085        | 2087         | rBV2     | 16643          | 22697         | 1.33%           | 0.105%        |
| 29        | 14.021      | 2105          | 2114        | 2117         | rBV2     | 21403          | 35684         | 2.09%           | 0.165%        |
| 30        | 14.145      | 2129          | 2135        | 2140         | rBV3     | 8840           | 17789         | 1.04%           | 0.082%        |
| 31        | 14.445      | 2183          | 2186        | 2194         | rVB      | 41607          | 53874         | 3.16%           | 0.249%        |
| 32        | 14.615      | 2210          | 2215        | 2218         | rVV      | 427065         | 558989        | 32.80%          | 2.588%        |
| 33        | 14.651      | 2218          | 2221        | 2229         | rVV      | 798865         | 1000569       | 58.72%          | 4.632%        |
| 34        | 14.739      | 2231          | 2236        | 2245         | rVB      | 246008         | 336064        | 19.72%          | 1.556%        |

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 Misc :  
 ALS Vial : 14 Sample Multiplier: 1

Instrument :  
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 VNJ-226-COMP

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 | 14.839 | 2249 | 2253 | 2257 | rBV2 | 12030  | 18339   | 1.08%  | 0.085% |
| 36 | 15.045 | 2284 | 2288 | 2297 | rVB  | 71663  | 100364  | 5.89%  | 0.465% |
| 37 | 15.421 | 2348 | 2352 | 2356 | rBV  | 57611  | 60990   | 3.58%  | 0.282% |
| 38 | 15.462 | 2356 | 2359 | 2364 | rVV  | 59734  | 68355   | 4.01%  | 0.316% |
| 39 | 15.539 | 2367 | 2372 | 2374 | rVV  | 20048  | 27778   | 1.63%  | 0.129% |
| 40 | 15.568 | 2374 | 2377 | 2382 | rVV  | 102666 | 137112  | 8.05%  | 0.635% |
| 41 | 15.627 | 2382 | 2387 | 2396 | rVB4 | 46586  | 84807   | 4.98%  | 0.393% |
| 42 | 15.874 | 2423 | 2429 | 2433 | rBV  | 33620  | 41586   | 2.44%  | 0.193% |
| 43 | 16.233 | 2485 | 2490 | 2493 | rBV2 | 15470  | 19256   | 1.13%  | 0.089% |
| 44 | 16.433 | 2519 | 2524 | 2530 | rBV  | 486113 | 579808  | 34.03% | 2.684% |
| 45 | 16.568 | 2544 | 2547 | 2552 | rVB  | 27829  | 32946   | 1.93%  | 0.153% |
| 46 | 16.733 | 2571 | 2575 | 2582 | rBV  | 418259 | 495789  | 29.10% | 2.295% |
| 47 | 16.839 | 2588 | 2593 | 2599 | rVB4 | 10580  | 22048   | 1.29%  | 0.102% |
| 48 | 16.933 | 2605 | 2609 | 2613 | rBV  | 17451  | 22616   | 1.33%  | 0.105% |
| 49 | 16.986 | 2613 | 2618 | 2625 | rVB  | 996543 | 1130692 | 66.35% | 5.234% |
| 50 | 17.062 | 2625 | 2631 | 2638 | rVB4 | 22028  | 43873   | 2.57%  | 0.203% |
| 51 | 17.174 | 2646 | 2650 | 2653 | rBV3 | 12204  | 21292   | 1.25%  | 0.099% |
| 52 | 17.209 | 2653 | 2656 | 2662 | rVB  | 62288  | 72526   | 4.26%  | 0.336% |
| 53 | 17.292 | 2666 | 2670 | 2675 | rBV2 | 74744  | 88903   | 5.22%  | 0.412% |
| 54 | 17.345 | 2675 | 2679 | 2686 | rBV4 | 21733  | 38419   | 2.25%  | 0.178% |
| 55 | 17.980 | 2783 | 2787 | 2790 | rBV2 | 96452  | 98187   | 5.76%  | 0.455% |
| 56 | 18.015 | 2790 | 2793 | 2795 | rVV2 | 22680  | 26135   | 1.53%  | 0.121% |
| 57 | 18.044 | 2795 | 2798 | 2800 | rVV2 | 17938  | 18670   | 1.10%  | 0.086% |
| 58 | 18.244 | 2828 | 2832 | 2841 | rBV2 | 101407 | 161363  | 9.47%  | 0.747% |
| 59 | 18.327 | 2841 | 2846 | 2850 | rVV2 | 415000 | 606674  | 35.60% | 2.808% |
| 60 | 18.368 | 2850 | 2853 | 2863 | rVB2 | 157881 | 240845  | 14.13% | 1.115% |
| 61 | 18.462 | 2865 | 2869 | 2873 | rVB3 | 18202  | 20273   | 1.19%  | 0.094% |
| 62 | 18.621 | 2893 | 2896 | 2900 | rBV  | 25834  | 28464   | 1.67%  | 0.132% |
| 63 | 18.662 | 2900 | 2903 | 2913 | rVB4 | 18595  | 35696   | 2.09%  | 0.165% |
| 64 | 18.803 | 2923 | 2927 | 2931 | rBV2 | 74352  | 87407   | 5.13%  | 0.405% |
| 65 | 18.844 | 2931 | 2934 | 2938 | rVV3 | 17039  | 24228   | 1.42%  | 0.112% |
| 66 | 19.050 | 2966 | 2969 | 2975 | rVV4 | 22431  | 44326   | 2.60%  | 0.205% |
| 67 | 19.474 | 3038 | 3041 | 3046 | rVB2 | 14458  | 19379   | 1.14%  | 0.090% |
| 68 | 19.562 | 3052 | 3056 | 3059 | rBV3 | 28124  | 33199   | 1.95%  | 0.154% |
| 69 | 19.603 | 3059 | 3063 | 3066 | rVV  | 114901 | 161391  | 9.47%  | 0.747% |
| 70 | 19.633 | 3066 | 3068 | 3074 | rVB  | 47109  | 56209   | 3.30%  | 0.260% |
| 71 | 19.715 | 3079 | 3082 | 3087 | rBV2 | 22828  | 27632   | 1.62%  | 0.128% |

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Instrument :  
BNA\_F  
ClientSampleId :  
VNJ-226-COMP

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 | 19.891 | 3108 | 3112 | 3116 | rBV  | 67842  | 72567  | 4.26%  | 0.336% |
| 73 | 19.950 | 3119 | 3122 | 3126 | rVV  | 103136 | 107768 | 6.32%  | 0.499% |
| 74 | 20.003 | 3126 | 3131 | 3141 | rVV  | 307001 | 424508 | 24.91% | 1.965% |
| 75 | 20.221 | 3162 | 3168 | 3172 | rVB6 | 15262  | 28084  | 1.65%  | 0.130% |
| 76 | 20.262 | 3172 | 3175 | 3178 | rBV5 | 16197  | 19992  | 1.17%  | 0.093% |
| 77 | 20.444 | 3202 | 3206 | 3209 | rBV2 | 12223  | 19104  | 1.12%  | 0.088% |
| 78 | 20.485 | 3209 | 3213 | 3216 | rBV6 | 18807  | 29647  | 1.74%  | 0.137% |
| 79 | 20.733 | 3252 | 3255 | 3259 | rVB5 | 13303  | 17083  | 1.00%  | 0.079% |
| 80 | 20.844 | 3272 | 3274 | 3281 | rVB6 | 18052  | 25257  | 1.48%  | 0.117% |
| 81 | 21.191 | 3329 | 3333 | 3338 | rBV  | 34243  | 57402  | 3.37%  | 0.266% |
| 82 | 21.532 | 3386 | 3391 | 3393 | rVV  | 28219  | 51034  | 2.99%  | 0.236% |
| 83 | 21.574 | 3393 | 3398 | 3404 | rVB4 | 112277 | 210314 | 12.34% | 0.974% |
| 84 | 21.756 | 3421 | 3429 | 3439 | rBV6 | 102494 | 257833 | 15.13% | 1.194% |
| 85 | 22.297 | 3516 | 3521 | 3527 | rVB9 | 10925  | 23521  | 1.38%  | 0.109% |
| 86 | 22.644 | 3575 | 3580 | 3587 | rVB8 | 16022  | 36003  | 2.11%  | 0.167% |

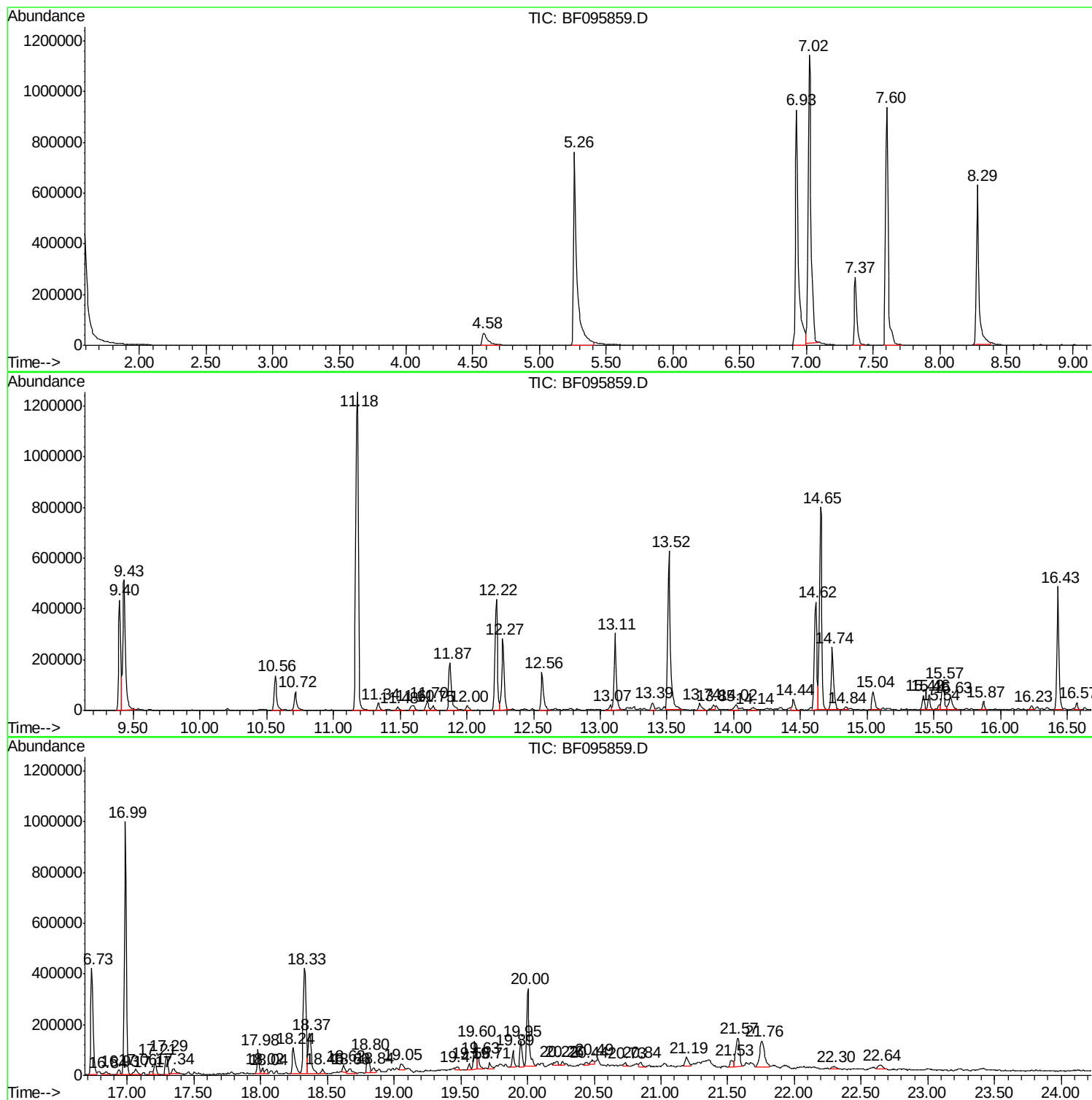
Sum of corrected areas: 21602189

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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



Data Path : Z:\HPCHEM1\BNA F\DATA\BF061017\  
Data File : BF095859.D  
Acq On : 10 Jun 2017 21:16  
Operator : SJ/MA  
Sample : I3598-05  
Misc :  
ALS Vial : 14 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
VNJ-226-COMP

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

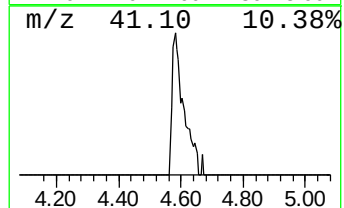
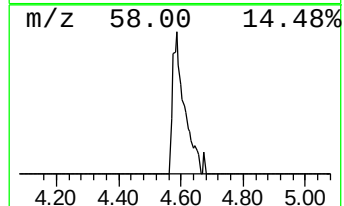
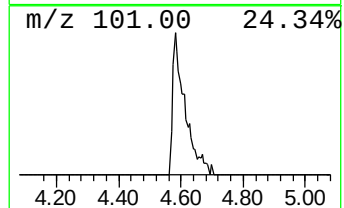
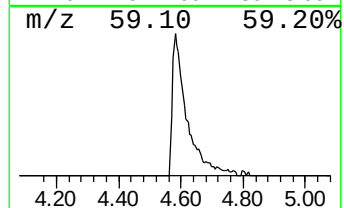
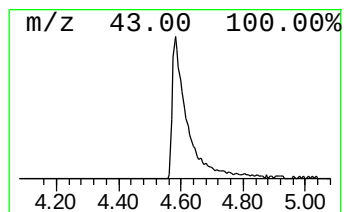
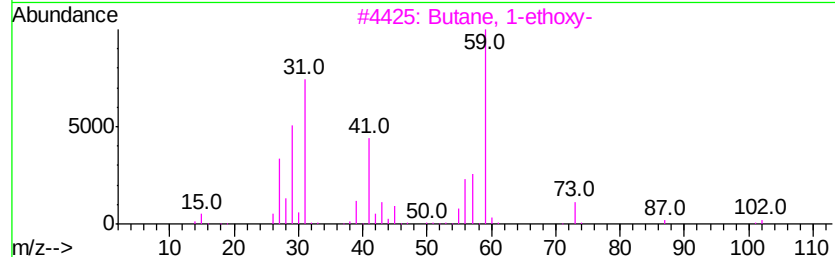
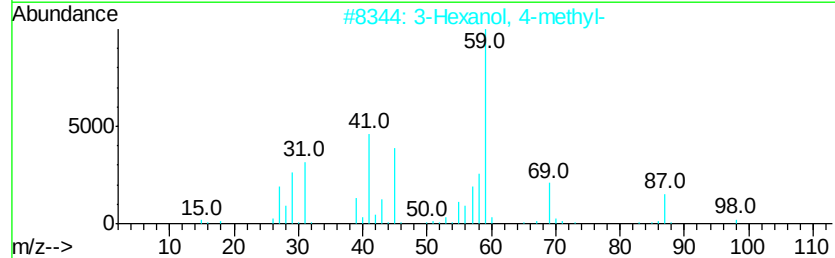
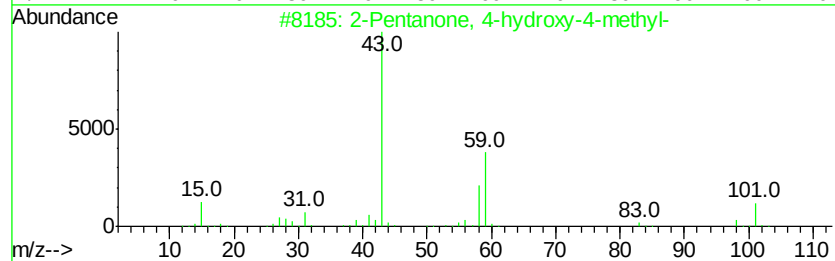
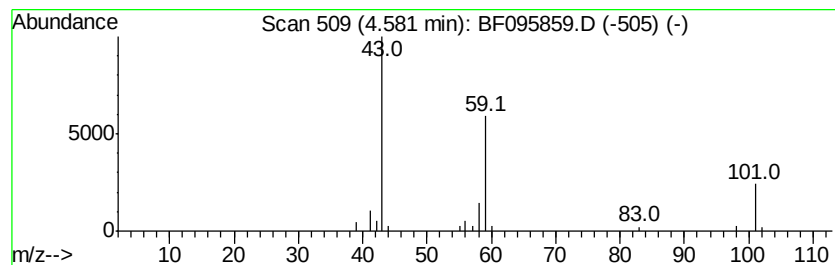
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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

| R.T. | EstConc | Area   | Relative to ISTD       | R.T. |
|------|---------|--------|------------------------|------|
| 4.58 | 8.06 ng | 142127 | 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       | 3-Hexanol, 4-methyl-             | 116          | C7H16O  |         | 000615-29-2 | 28   |
| 3       | Butane, 1-ethoxy-                | 102          | C6H14O  |         | 000628-81-9 | 9    |
| 4       | Propanamide, N-ethyl-            | 101          | C5H11NO |         | 005129-72-6 | 9    |
| 5       | Morpholine, 4-methyl-            | 101          | C5H11NO |         | 000109-02-4 | 9    |



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

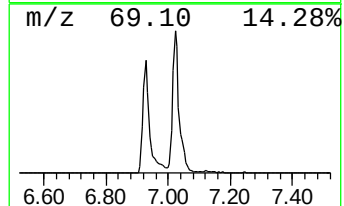
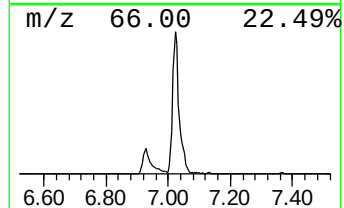
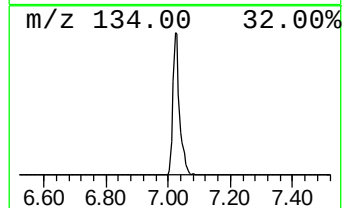
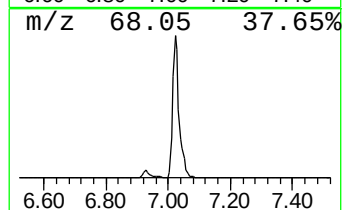
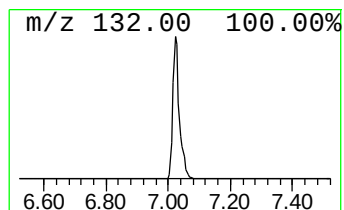
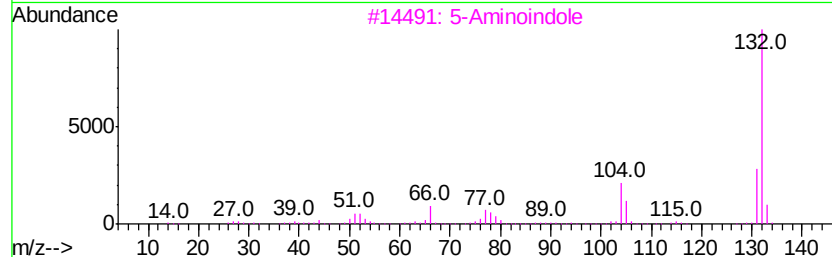
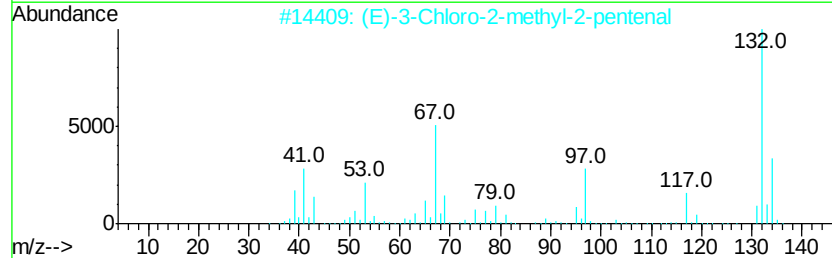
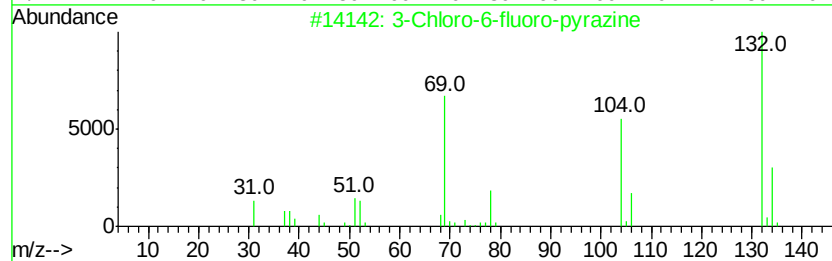
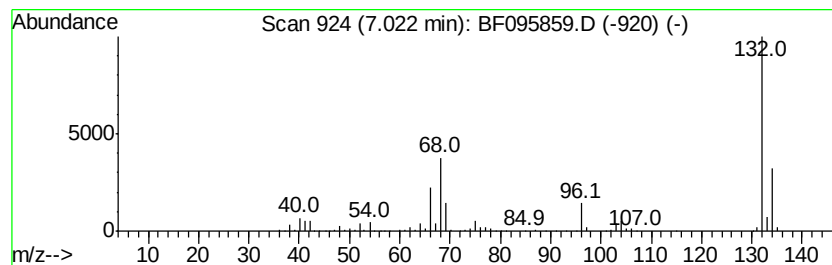
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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

| R.T. | EstConc  | Area    | Relative to ISTD       | R.T. |
|------|----------|---------|------------------------|------|
| 7.02 | 96.67 ng | 1704010 | 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  | 35   |
| 3    |    | 5-Aminoindole                    | 132 | C8H8N2    | 005192-03-0  | 12   |
| 4    |    | 1H-Benzimidazole, 2-methyl-      | 132 | C8H8N2    | 000615-15-6  | 10   |
| 5    |    | 5-Fluoro-2-chloropyrimidine      | 132 | C4H2ClFN2 | 062802-42-0  | 9    |



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

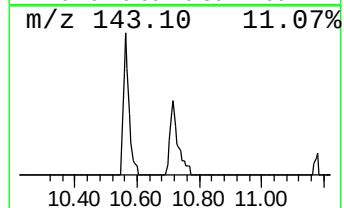
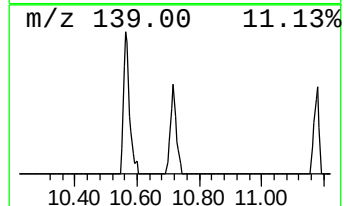
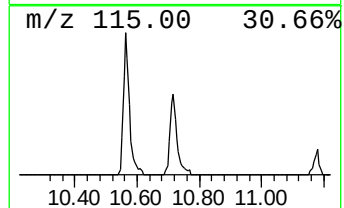
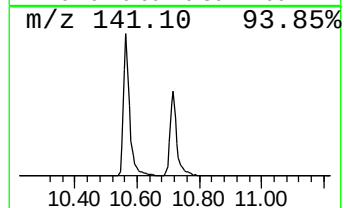
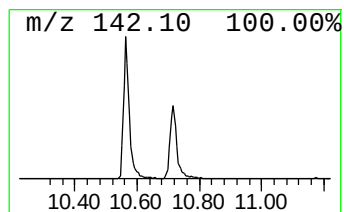
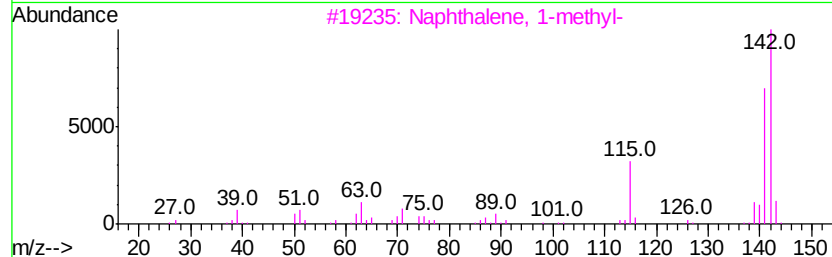
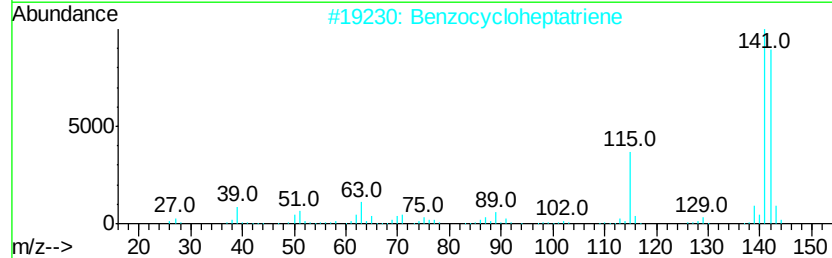
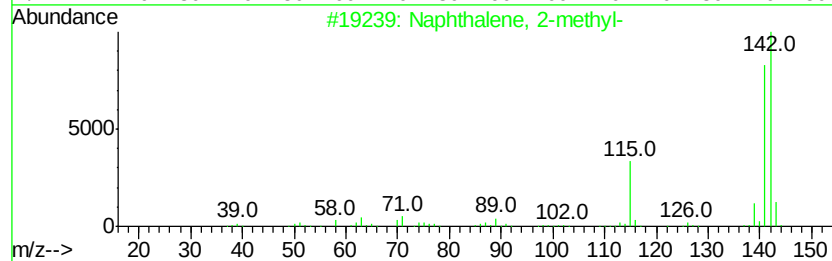
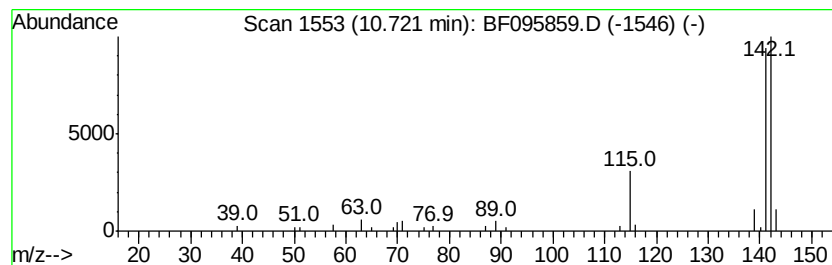
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 4 Naphthalene, 1-methyl- Concentration Rank 7

| R.T.  | EstConc | Area   | Relative to ISTD | R.T. |
|-------|---------|--------|------------------|------|
| 10.72 | 4.29 ng | 104853 | Naphthalene-d8   | 9.40 |

| Hit# | of | Tentative ID                        | MW  | MolForm | CAS#        | Qual |
|------|----|-------------------------------------|-----|---------|-------------|------|
| 1    | 5  | Naphthalene, 2-methyl-              | 142 | C11H10  | 000091-57-6 | 95   |
| 2    |    | Benzocycloheptatriene               | 142 | C11H10  | 000264-09-5 | 91   |
| 3    |    | Naphthalene, 1-methyl-              | 142 | C11H10  | 000090-12-0 | 91   |
| 4    |    | 1H-Indene, 1-ethylidene-            | 142 | C11H10  | 002471-83-2 | 91   |
| 5    |    | 1,4-Methanonaphthalene, 1,4-dihy... | 142 | C11H10  | 004453-90-1 | 91   |



Data Path : Z:\HPCHEM1\BNA F\DATA\BF061017\  
Data File : BF095859.D  
Acq On : 10 Jun 2017 21:16  
Operator : SJ/MA  
Sample : I3598-05  
Misc :  
ALS Vial : 14 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
VNJ-226-COMP

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

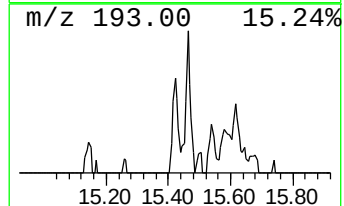
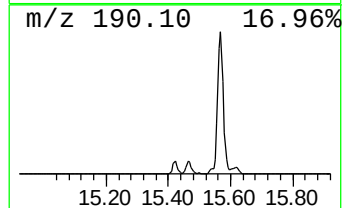
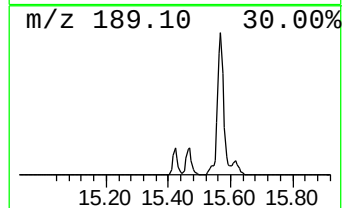
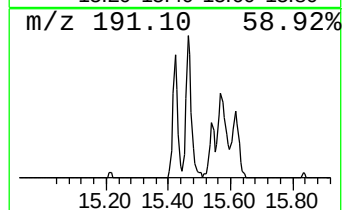
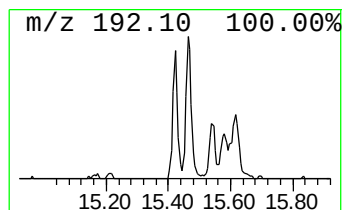
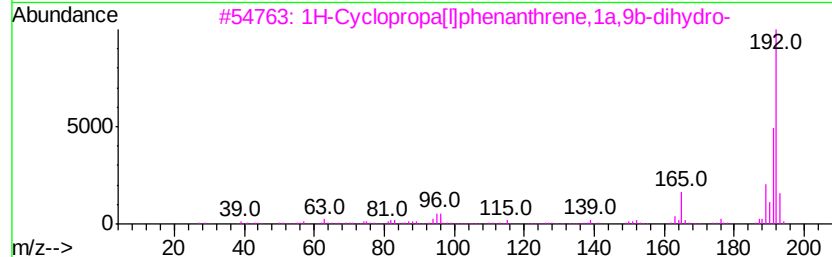
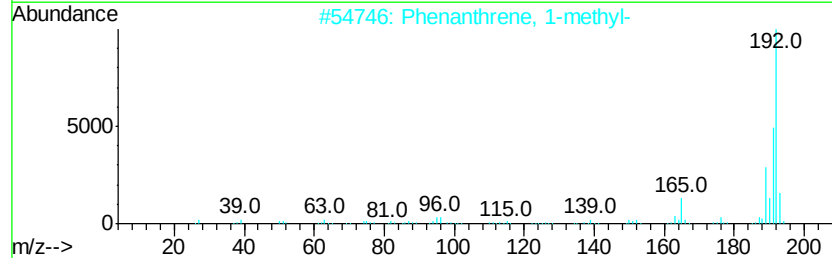
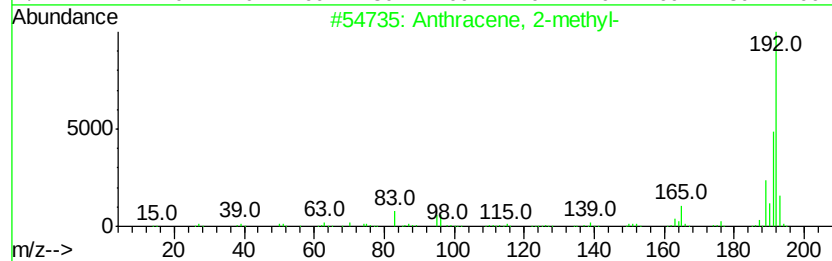
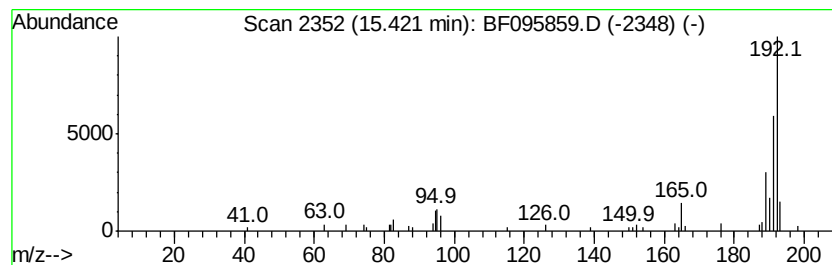
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 5 Anthracene, 2-methyl- Concentration Rank 15

| R.T.  | EstConc | Area  | Relative to ISTD | R.T.  |
|-------|---------|-------|------------------|-------|
| 15.42 | 2.18 ng | 60990 | Phenanthrene-d10 | 14.62 |

| Hit# of | 5 | Tentative ID                        | MW  | MolForm | CAS#        | Qual |
|---------|---|-------------------------------------|-----|---------|-------------|------|
| 1       |   | Anthracene, 2-methyl-               | 192 | C15H12  | 000613-12-7 | 96   |
| 2       |   | Phenanthrene, 1-methyl-             | 192 | C15H12  | 000832-69-9 | 96   |
| 3       |   | 1H-Cyclopropa[1]phenanthrene,1a,... | 192 | C15H12  | 000949-41-7 | 95   |
| 4       |   | Phenanthrene, 4-methyl-             | 192 | C15H12  | 000832-64-4 | 94   |
| 5       |   | Phenanthrene, 2-methyl-             | 192 | C15H12  | 002531-84-2 | 94   |





Data Path : Z:\HPCHEM1\BNA F\DATA\BF061017\  
Data File : BF095859.D  
Acq On : 10 Jun 2017 21:16  
Operator : SJ/MA  
Sample : I3598-05  
Misc :  
ALS Vial : 14 Sample Multiplier: 1

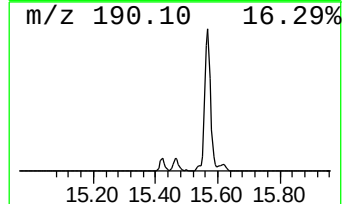
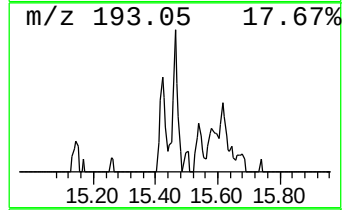
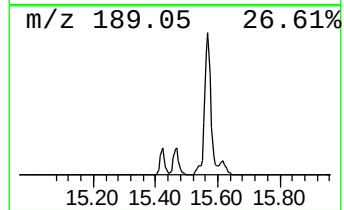
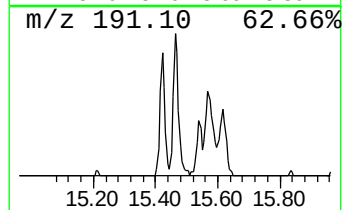
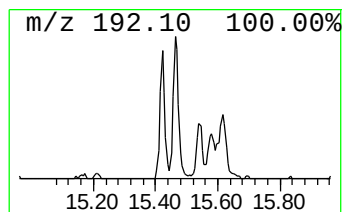
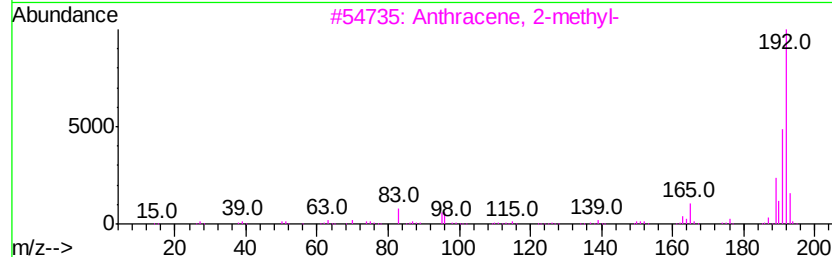
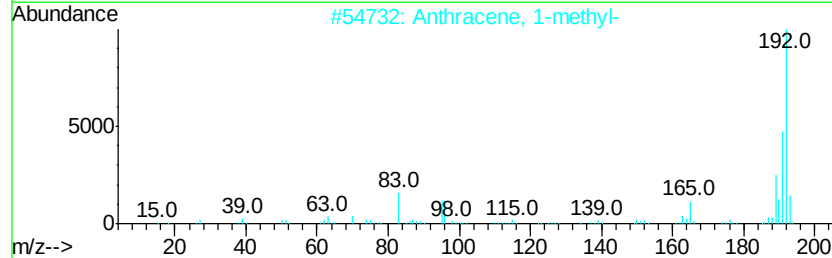
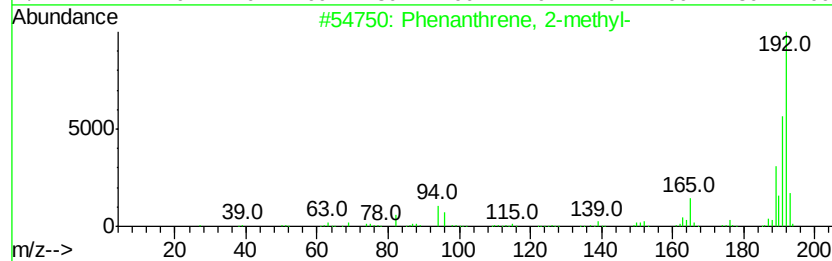
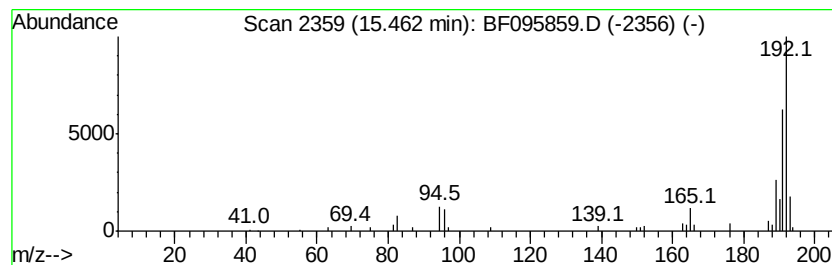
Instrument :  
BNA\_F  
ClientSampleId :  
VNJ-226-COMP

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 Phenanthrene, 2-methyl- Concentration Rank 13

| R.T.      | EstConc                 | Area  | Relative to ISTD |             | R.T.  |
|-----------|-------------------------|-------|------------------|-------------|-------|
| 15.46     | 2.45 ng                 | 68355 | Phenanthrene-d10 |             | 14.62 |
| Hit# of 5 | Tentative ID            | MW    | MolForm          | CAS#        | Qual  |
| 1         | Phenanthrene, 2-methyl- | 192   | C15H12           | 002531-84-2 | 97    |
| 2         | Anthracene, 1-methyl-   | 192   | C15H12           | 000610-48-0 | 96    |
| 3         | Anthracene, 2-methyl-   | 192   | C15H12           | 000613-12-7 | 96    |
| 4         | Phenanthrene, 1-methyl- | 192   | C15H12           | 000832-69-9 | 96    |
| 5         | Anthracene, 9-methyl-   | 192   | C15H12           | 000779-02-2 | 95    |



Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF061017\  
Data File : BF095859.D  
Acq On : 10 Jun 2017 21:16  
Operator : SJ/MA  
Sample : I3598-05  
Misc :  
ALS Vial : 14 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
VNJ-226-COMP

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

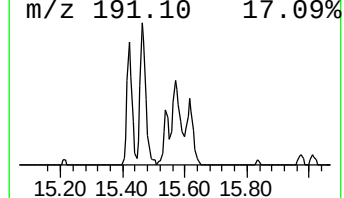
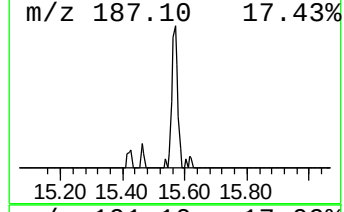
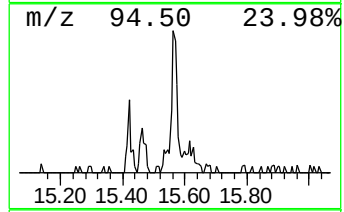
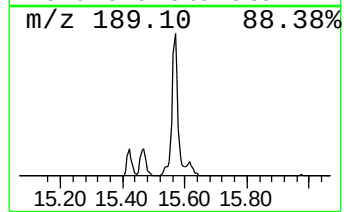
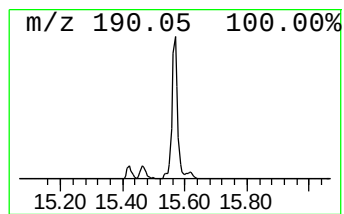
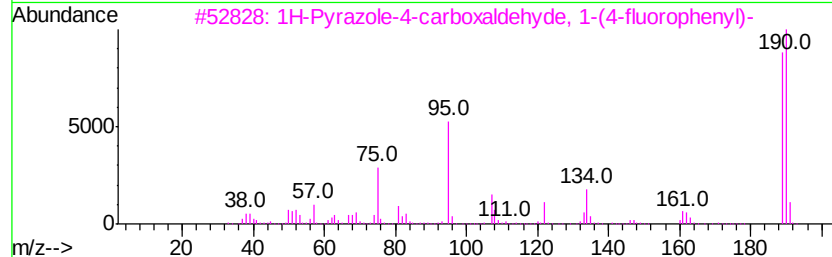
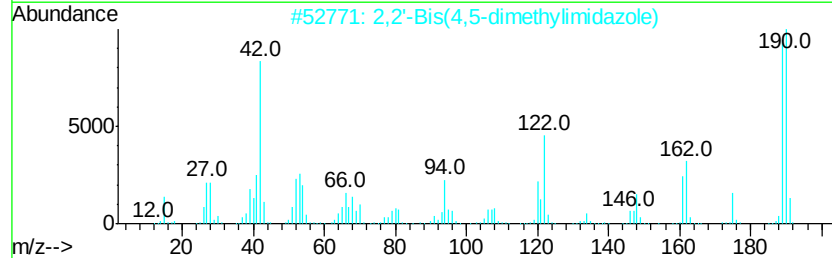
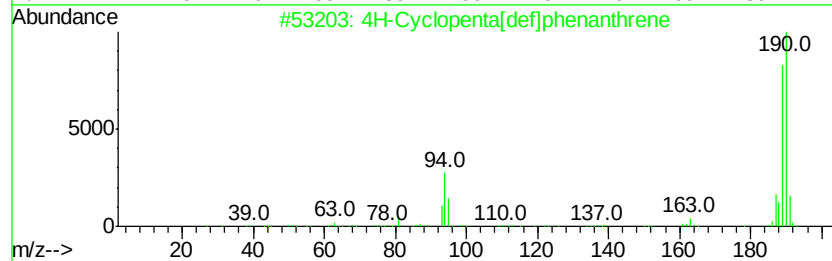
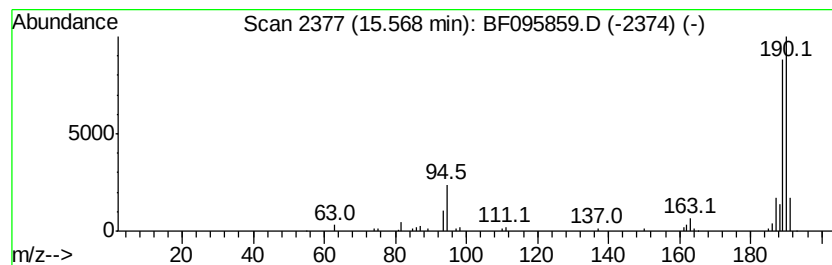
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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

| R.T.  | EstConc | Area   | Relative to ISTD | R.T.  |
|-------|---------|--------|------------------|-------|
| 15.57 | 4.91 ng | 137112 | Phenanthrene-d10 | 14.62 |

| Hit# | of | Tentative ID                        | MW  | MolForm   | CAS#         | Qual |
|------|----|-------------------------------------|-----|-----------|--------------|------|
| 1    | 5  | 4H-Cyclopenta[def]phenanthrene      | 190 | C15H10    | 000203-64-5  | 96   |
| 2    |    | 2,2'-Bis(4,5-dimethylimidazole)     | 190 | C10H14N4  | 069286-06-2  | 64   |
| 3    |    | 1H-Pyrazole-4-carboxaldehyde, 1-... | 190 | C10H7FN2O | 1000338-05-6 | 64   |
| 4    |    | Phenol, 4-(2-thienylmethyl)-        | 190 | C11H10OS  | 091680-55-6  | 59   |
| 5    |    | 6H-Cyclobuta[jk]phenanthrene        | 190 | C15H10    | 083469-43-6  | 45   |



Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF061017\  
Data File : BF095859.D  
Acq On : 10 Jun 2017 21:16  
Operator : SJ/MA  
Sample : I3598-05  
Misc :  
ALS Vial : 14 Sample Multiplier: 1

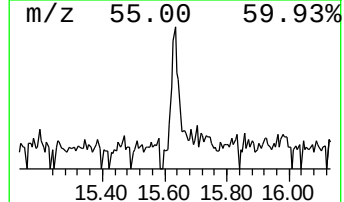
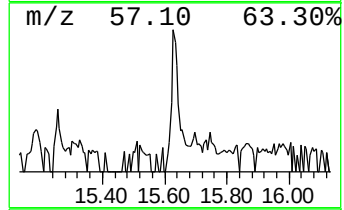
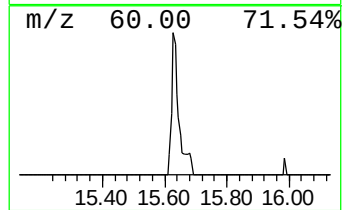
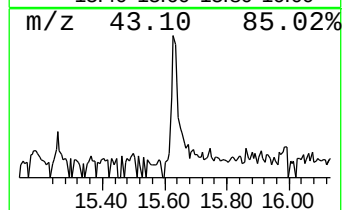
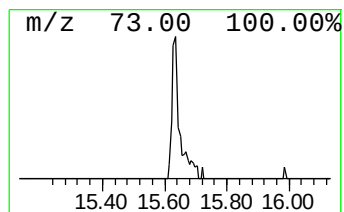
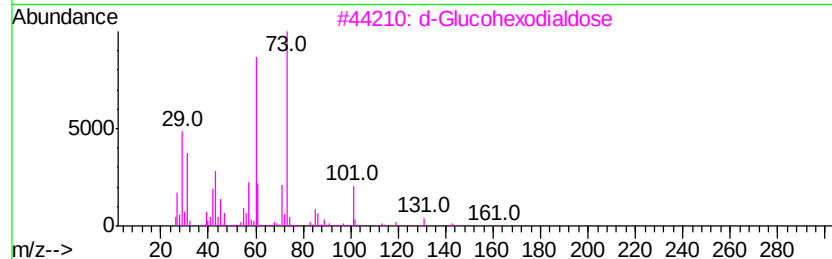
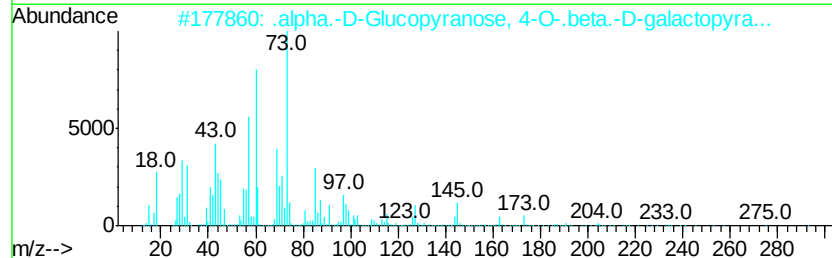
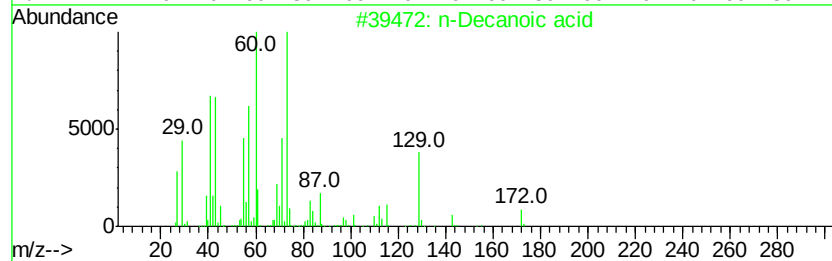
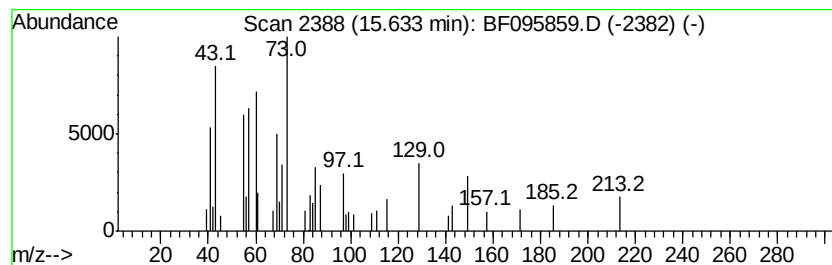
Instrument :  
BNA\_F  
ClientSampleId :  
VNJ-226-COMP

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 8 n-Decanoic acid Concentration Rank 10

| R.T.    | EstConc | Area                                | Relative to ISTD | R.T.      |              |      |
|---------|---------|-------------------------------------|------------------|-----------|--------------|------|
| 15.63   | 3.03 ng | 84807                               | Phenanthrene-d10 | 14.62     |              |      |
| Hit# of | 5       | Tentative ID                        | MW               | MolForm   | CAS#         | Qual |
| 1       |         | n-Decanoic acid                     | 172              | C10H20O2  | 000334-48-5  | 50   |
| 2       |         | .alpha.-D-Glucopyranose, 4-O-.be... | 342              | C12H22O11 | 014641-93-1  | 47   |
| 3       |         | d-Glucohexodialdose                 | 178              | C6H10O6   | 1000149-19-1 | 35   |
| 4       |         | Oxalic acid, allyl dodecyl ester    | 298              | C17H30O4  | 1000309-24-0 | 14   |
| 5       |         | Oxalic acid, allyl pentadecyl ester | 340              | C20H36O4  | 1000309-24-3 | 11   |



Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF061017\  
Data File : BF095859.D  
Acq On : 10 Jun 2017 21:16  
Operator : SJ/MA  
Sample : I3598-05  
Misc :  
ALS Vial : 14 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
VNJ-226-COMP

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

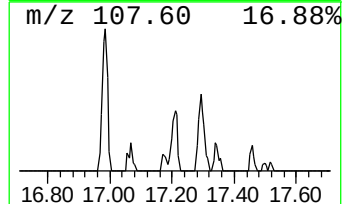
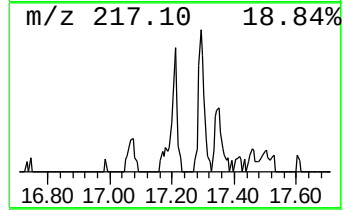
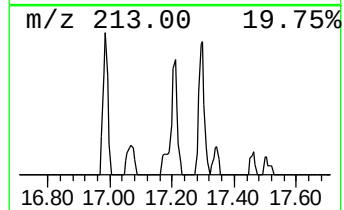
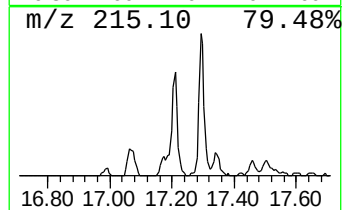
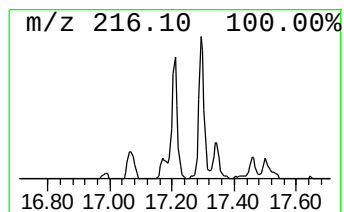
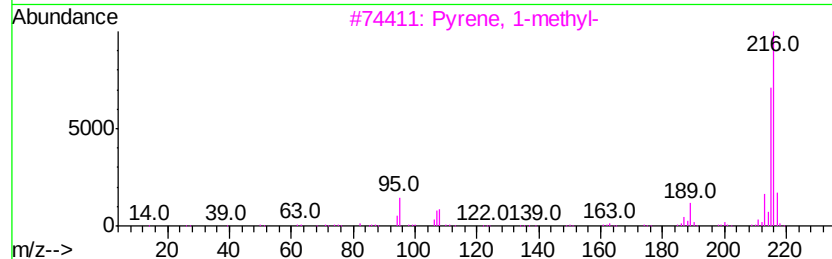
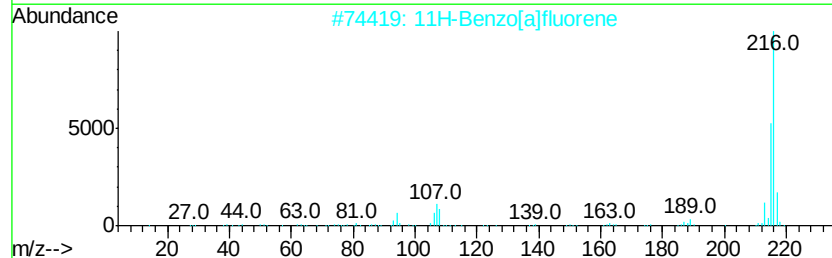
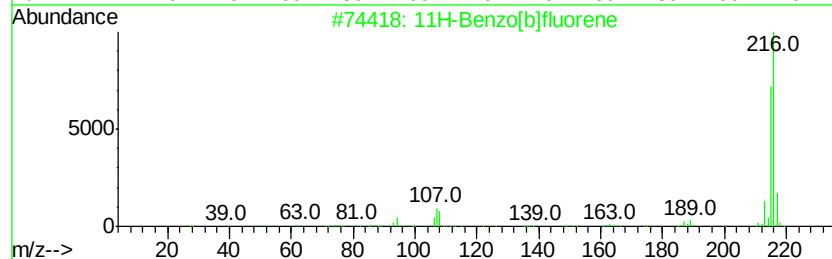
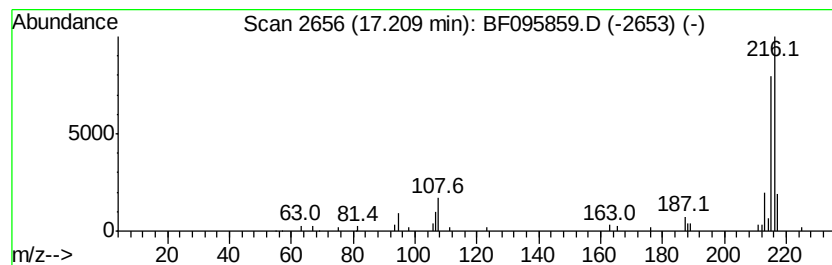
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 9 11H-Benzo[b]fluorene Concentration Rank 14

| R.T.  | EstConc | Area  | Relative to ISTD | R.T.  |
|-------|---------|-------|------------------|-------|
| 17.21 | 2.39 ng | 72526 | Chrysene-d12     | 18.33 |

| Hit# | of | Tentative ID            | MW  | MolForm | CAS#        | Qual |
|------|----|-------------------------|-----|---------|-------------|------|
| 1    | 5  | 11H-Benzo[b]fluorene    | 216 | C17H12  | 000243-17-4 | 91   |
| 2    |    | 11H-Benzo[a]fluorene    | 216 | C17H12  | 000238-84-6 | 91   |
| 3    |    | Pvrene, 1-methyl-       | 216 | C17H12  | 002381-21-7 | 91   |
| 4    |    | Pvrene, 2-methyl-       | 216 | C17H12  | 003442-78-2 | 87   |
| 5    |    | Fluoranthene, 2-methyl- | 216 | C17H12  | 033543-31-6 | 83   |



Data Path : Z:\HPCHEM1\BNA F\DATA\BF061017\  
Data File : BF095859.D  
Acq On : 10 Jun 2017 21:16  
Operator : SJ/MA  
Sample : I3598-05  
Misc :  
ALS Vial : 14 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
VNJ-226-COMP

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

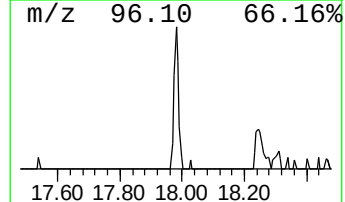
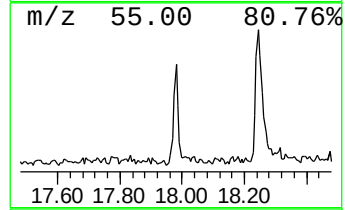
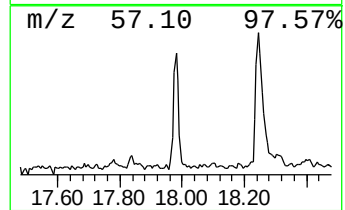
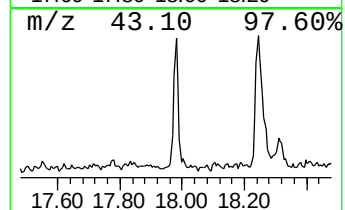
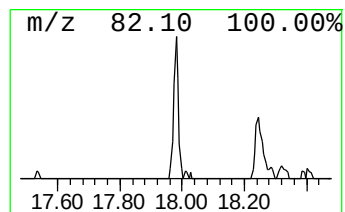
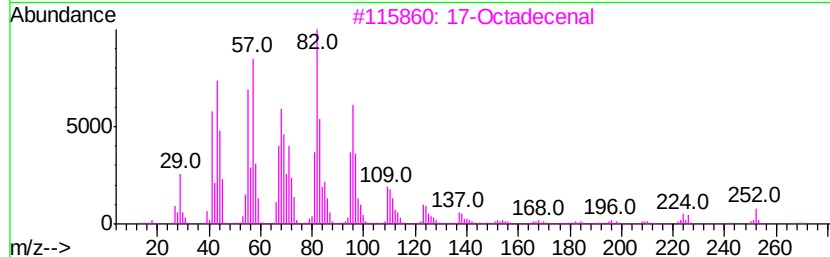
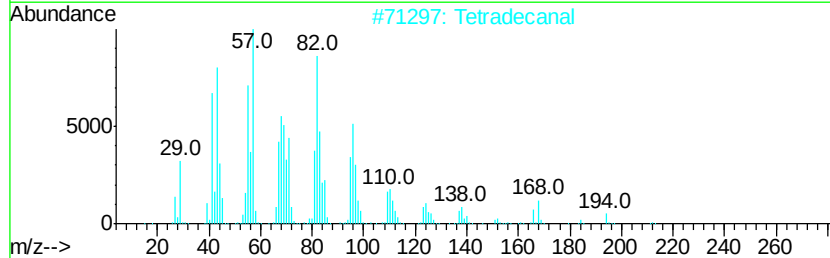
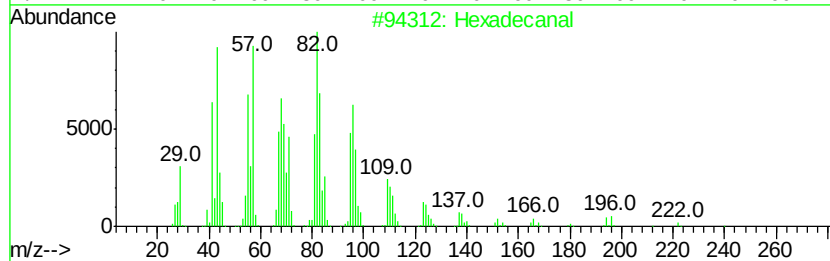
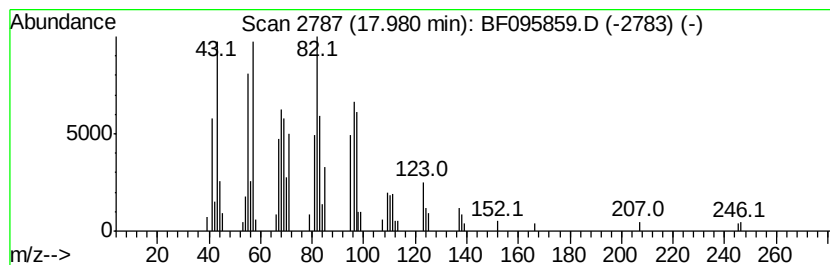
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 11 Hexadecanal Concentration Rank 9

| R.T.  | EstConc | Area  | Relative to ISTD | R.T.  |
|-------|---------|-------|------------------|-------|
| 17.98 | 3.24 ng | 98187 | Chrysene-d12     | 18.33 |

| Hit# | of | Tentative ID         | MW  | MolForm | CAS#        | Qual |
|------|----|----------------------|-----|---------|-------------|------|
| 1    | 5  | Hexadecanal          | 240 | C16H32O | 000629-80-1 | 87   |
| 2    |    | Tetradecanal         | 212 | C14H28O | 000124-25-4 | 87   |
| 3    |    | 17-Octadecenal       | 266 | C18H34O | 056554-86-0 | 86   |
| 4    |    | 1,19-Eicosadiene     | 278 | C20H38  | 014811-95-1 | 72   |
| 5    |    | Oxirane, tetradecyl- | 240 | C16H32O | 007320-37-8 | 72   |



Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF061017\  
Data File : BF095859.D  
Acq On : 10 Jun 2017 21:16  
Operator : SJ/MA  
Sample : I3598-05  
Misc :  
ALS Vial : 14 Sample Multiplier: 1

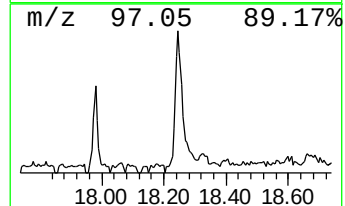
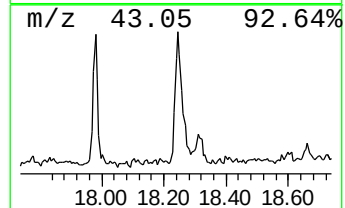
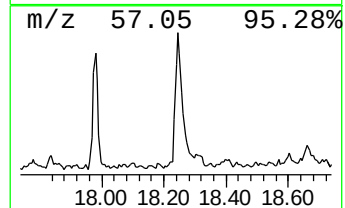
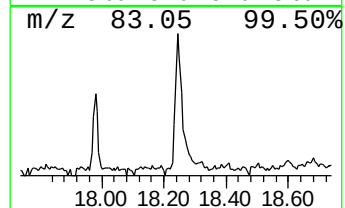
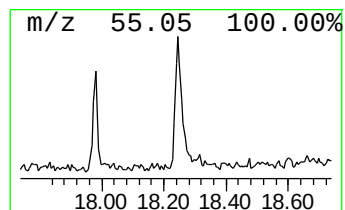
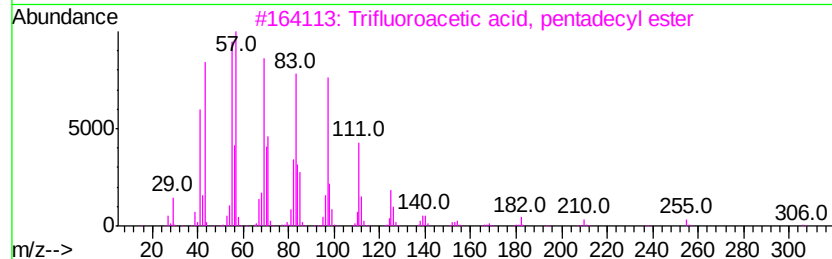
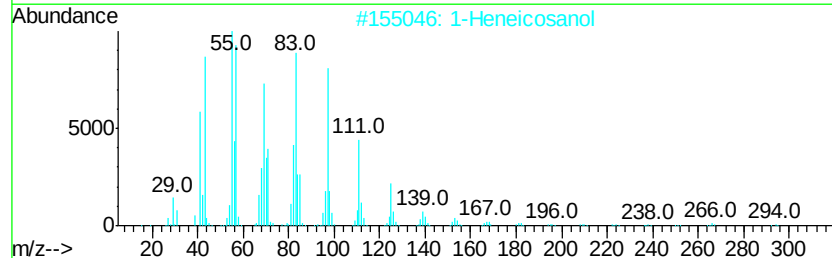
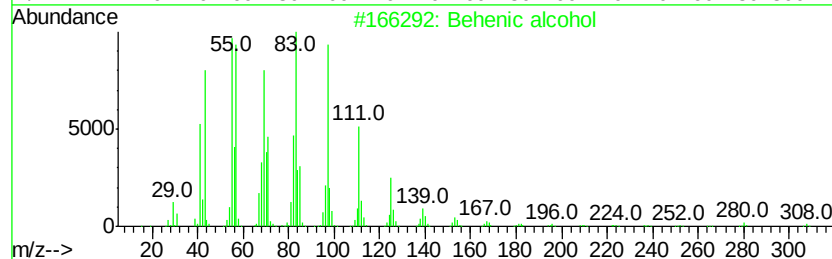
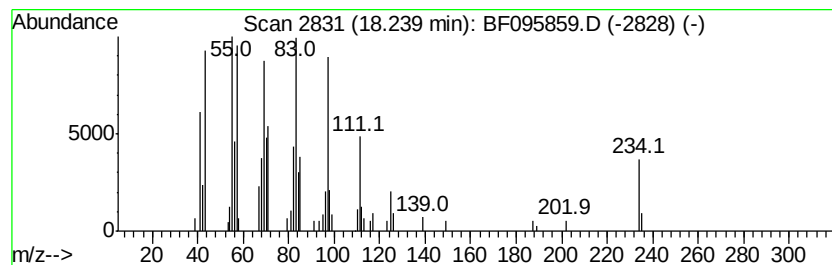
Instrument :  
BNA\_F  
ClientSampleId :  
VNJ-226-COMP

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 5

| R.T.      | EstConc                             | Area   | Relative to ISTD | R.T.        |      |
|-----------|-------------------------------------|--------|------------------|-------------|------|
| 18.24     | 5.32 ng                             | 161363 | 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         | Trifluoroacetic acid, pentadecyl... | 324    | C17H31F3O2       | 959010-23-2 | 95   |
| 4         | n-Nonadecanol-1                     | 284    | C19H40O          | 001454-84-8 | 95   |
| 5         | Pentafluoropropionic acid, penta... | 374    | C18H31F5O2       | 959092-08-1 | 93   |



Data Path : Z:\HPCHEM1\BNA F\DATA\BF061017\  
Data File : BF095859.D  
Acq On : 10 Jun 2017 21:16  
Operator : SJ/MA  
Sample : I3598-05  
Misc :  
ALS Vial : 14 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
VNJ-226-COMP

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

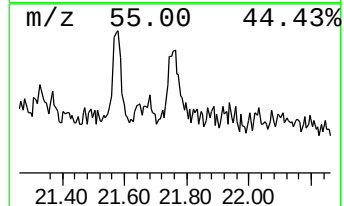
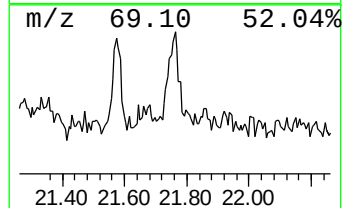
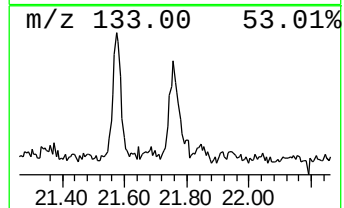
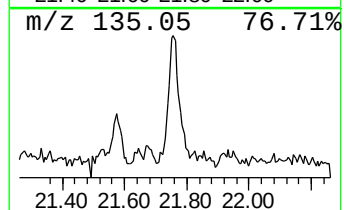
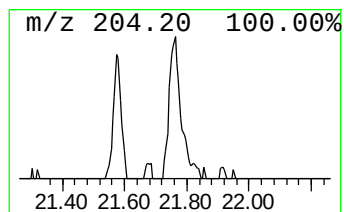
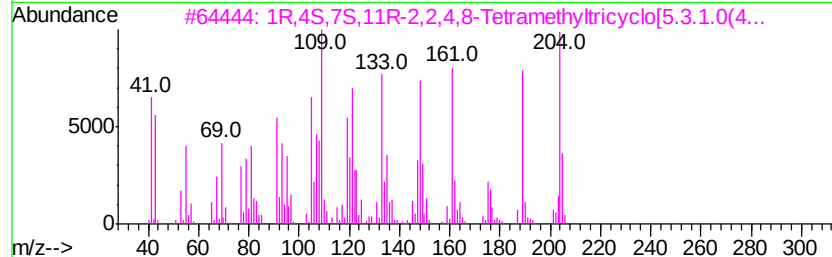
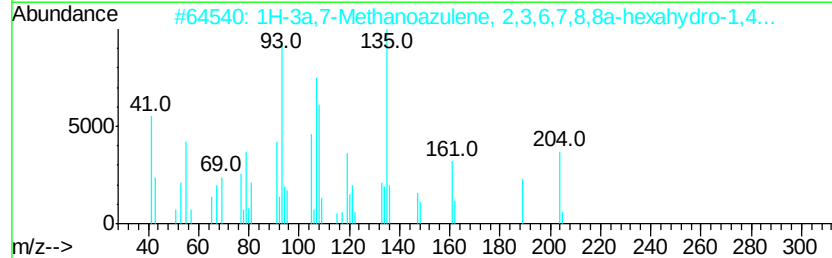
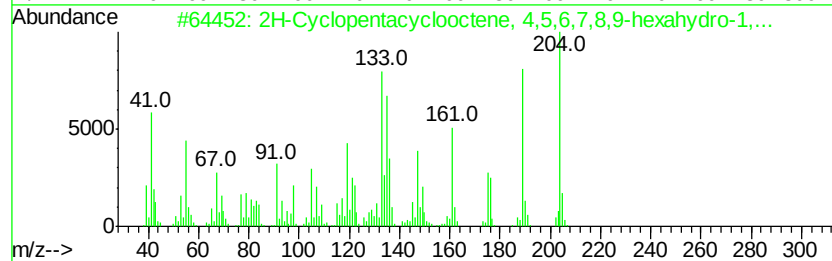
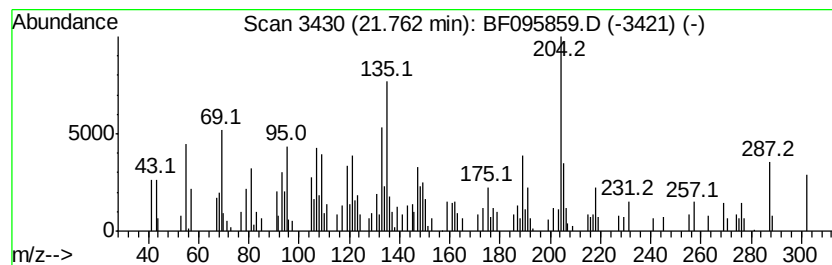
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 15 2H-Cyclopentacyclooctene, 4... Concentration Rank 3

| R.T.  | EstConc  | Area   | Relative to ISTD | R.T.  |
|-------|----------|--------|------------------|-------|
| 21.76 | 12.15 ng | 257833 | Perylene-d12     | 20.00 |

| Hit# | of | Tentative ID                        | MW  | MolForm | CAS#         | Qual |
|------|----|-------------------------------------|-----|---------|--------------|------|
| 1    | 5  | 2H-Cyclopentacyclooctene, 4,5,6,... | 204 | C15H24  | 1000221-85-8 | 78   |
| 2    |    | 1H-3a,7-Methanoazulene, 2,3,6,7,... | 204 | C15H24  | 000560-32-7  | 55   |
| 3    |    | 1R,4S,7S,11R-2,2,4,8-Tetramethyl... | 204 | C15H24  | 1000140-07-6 | 49   |
| 4    |    | Aciphyllene                         | 204 | C15H24  | 087745-31-1  | 46   |
| 5    |    | 1,4-Dimethyl-8-isopropylidenetri... | 204 | C15H24  | 1000140-07-7 | 46   |



Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF061017\  
Data File : BF095859.D  
Acq On : 10 Jun 2017 21:16  
Operator : SJ/MA  
Sample : I3598-05  
Misc :  
ALS Vial : 14 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
VNJ-226-COMP

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... | 4.58  | 8.1 ng  |       | 142127   | 1                     | 7.37  | 352560 | 20.0 |
| unknown7.02          | 7.02  | 96.7 ng |       | 1704010  | 1                     | 7.37  | 352560 | 20.0 |
| Naphthalene, 1-me... | 10.72 | 4.3 ng  |       | 104853   | 2                     | 9.40  | 488458 | 20.0 |
| Anthracene, 2-met... | 15.42 | 2.2 ng  |       | 60990    | 4                     | 14.62 | 558989 | 20.0 |
| Phenanthrene, 2-m... | 15.46 | 2.5 ng  |       | 68355    | 4                     | 14.62 | 558989 | 20.0 |
| 4H-Cyclopenta[def... | 15.57 | 4.9 ng  |       | 137112   | 4                     | 14.62 | 558989 | 20.0 |
| n-Decanoic acid      | 15.63 | 3.0 ng  |       | 84807    | 4                     | 14.62 | 558989 | 20.0 |
| 11H-Benzo[b]fluorene | 17.21 | 2.4 ng  |       | 72526    | 5                     | 18.33 | 606674 | 20.0 |
| Hexadecanal          | 17.98 | 3.2 ng  |       | 98187    | 5                     | 18.33 | 606674 | 20.0 |
| Behenic alcohol      | 18.24 | 5.3 ng  |       | 161363   | 5                     | 18.33 | 606674 | 20.0 |
| 2H-Cyclopentacycl... | 21.76 | 12.2 ng |       | 257833   | 6                     | 20.00 | 424508 | 20.0 |